

Water quality and aquatic ecology modelling suite

D-WATER QUALITY

Deltares systems

Processes Table

Technical Reference Manual

Processes Library Tables

Technical Reference Manual

D-Water Quality

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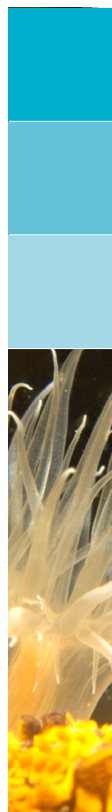
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1 Listing of DELWAQ processes

Table 1.1: Listing of DELWAQ processes

Process	Description	Documented
pH_carb	Integrated calculation of pH, carbonate system	PHCARB
DynDepth	dynamic calculation of the depth	DDEPTH
DynSurf	Dynamic calculation of the horizontal surface area	DSURF
TotDepth	depth water column	TOTDEP
Emersion	handle emersion z layers	EMERSI
Meteo	Process meteo from various meteo-stations	METEO
HeatBal	Total heat flux for surface water	HEATFL
MaxMacro	maximum biomass macrophytes	MAXMAC
Coverage	coverage by macrophytes	COVMAC
DAYRAD	Irradiance over the day	DAYRAD
Temperatur	Temperature and heat exchange	TEMPER
VarSal	Salinity in case of constant river discharge	VARSAI
Salinchlor	Conversion of salinity into chloride or vv	SALCHL
Veloc	Horizontal flow velocity	VELOC
ResTim	Residence time	RESTIM
VertDisp	Vertical dispersion segment -> exchange	STOX3D
HorzDisper	Horizontal dispersion in a 1D model	HDISP
HDisperVel	Horizontal dispersion velocity dependent	HDISPV
HDisperAdd	Additional horizontal dispersion	HDISPA
Age1	Age of water from source 1	WATAGE
Age2	Age of water from source 2	WATAGE
Age3	Age of water from source 3	WATAGE
Age4	Age of water from source 4	WATAGE
Age5	Age of water from source 5	WATAGE
WFetch	Wind Fetch from wind direction	INTPOL
WDepth	Depth where wave is created from wind direction	INTPOL
Chezy	Chezy coefficient	CALCHZ
Wave	Wave characteristics	CALWAV
CalTau	Calculation of bottom friction	CALTAU
MACDIS01	Submerged Macrophyte 1 Distibution function	MACDIS
MACDIS02	Submerged Macrophyte 2 Distibution function	MACDIS
MACDIS03	Submerged Macrophyte 3 Distibution function	MACDIS
MACDIS04	Submerged Macrophyte 4 Distibution function	MACDIS
MACDIS05	Submerged Macrophyte 5 Distibution function	MACDIS
pH_simp	Simple calculation of pH	SIMPH
SpecCarb	Speciation of carbonate in solution	SPCARB
EXTINABVLP	Extinction of light by algae Bloom	EXTINA
EXTINABVL	Extinction of light by algae Bloom	EXTINA
ExtPhDVL	Extinction of visual light by algae Dynamo	EXTINA
EXTINABUVP	Extinction of UV light by algae Bloom	EXTINA
EXTINABUV	Extinction of UV light by algae Bloom	EXTINA
ExtPhDUV	Extinction of UV light by algae Dynamo	EXTINA
ExtMacroVI	Extinction of light by macrophytes	EXTINA
ExtMacroUV	Extinction of UV by macrophytes	EXTINA
Extinc_VLG	Extinction of visible-light 370-680nm DLWQ-G	EXTINC
Extinc_ULV	Extinction of ultraviolet-light 350-480nm DLWQ-G	EXTINC
CalcRad	Radiation at segment upper and lower boundaries	CLCRAD
CalcRadDay	Actual radiation at segment boundaries	CLCRAD
CalcRadUV	UV-Radiation at segment upper and lower boundaries	CLCRAD
Daylength	Daylength calculation	DAYL
Reflection	Reflection calculation	REFL
DepAve	Average depth for Bloom step	DEPAVE
vtrans	Vertical mixing distribution over a period	VTRANS
BLOOM_P	BLOOM II algae module	D4OBLO
BLOOM	BLOOM II algae module	D4OBLO
Phy_Blo_P	Computation of phytoplankton output - Bloom	PHCOMB
Phy_Blo	Computation of phytoplankton output - Bloom	PHCOMB
MakOOC	Derive POCnoa from IM-fractions	MAKPOC
MakOOCs1	Derive POC in S1 from IM-fractions in S1	MAKPOC
MakOOCs2	Derive POC in S2 from IM-fractions in S2	MAKPOC
Phy_dyn	Computation of phytoplankton - Dynamo	PHCOMP
S1_Comp	Composition sediment layer S1	SEDCOM
S2_Comp	Composition sediment layer S2	SEDCOM
Compos	Composition	WKCOMP
DMVolume	Volume of dry matter in a segment	DMVOL
EColiMrt	Mortality EColi bacteria	BACMRT
FColiMrt	Mortality FColi bacteria	BACMRT
TColiMrt	Mortality TColi bacteria	BACMRT

continued on next page

Table 1.1 – continued from previous page

Process	Description	Documented
EnCocMrt	Mortality Enterococci bacteria	BACMRT
SaturCO2	Saturation concentration carbon dioxide	SATCO2
RearCO2	Reaeration of carbon dioxide	REAR
AdsPO4AAP	AdDeSorption ortho phosphorus to inorg. matter	ADSP04
DenSed_NO3	Denitrification in sediment	DENSED
DenWat_NO3	Denitrification in water column	DENWAT
Nitrif_NH4	Nitrification of ammonium	NITRIF
SaturOXY	Saturation concentration oxygen	SATOXY
RearOXY	Reaeration of oxygen	REAR
VAROXY	Variation of primary production within day	VAROXY
BMS1_DetC	Mineralisation detritus carbon in sediment S1	BOTMIN
BMS2_DetC	Mineralisation detritus carbon in sediment S2	BOTMIN
BMS1_DetN	Mineralisation detritus nitrogen in sediment S1	BOTMIN
BMS2_DetN	Mineralisation detritus nitrogen in sediment S2	BOTMIN
BMS1_DetP	Mineralisation detritus phosphorus in sediment S1	BOTMIN
BMS2_DetP	Mineralisation detritus phosphorus in sediment S2	BOTMIN
BMS1_DetSi	Mineralisation detritus silica in sediment S1	BOTMIN
BMS2_DetSi	Mineralisation detritus silica in sediment S2	BOTMIN
BMS1_OOC	Mineralisation other organic C in sediment S1	BOTMIN
BMS2_OOC	Mineralisation other organic C in sediment S2	BOTMIN
BMS1_OON	Mineralisation other organic N in sediment S1	BOTMIN
BMS2_OON	Mineralisation other organic N in sediment S2	BOTMIN
BMS1_OOP	Mineralisation other organic P in sediment S1	BOTMIN
BMS2_OOP	Mineralisation other organic P in sediment S2	BOTMIN
BMS1_OOSi	Mineralisation other organic Si in sediment S1	BOTMIN
BMS2_OOSi	Mineralisation other organic Si in sediment S2	BOTMIN
Deso_AAPS1	Desorption of adsorbed phosphates in sediment S1	BOTMIN
Deso_AAPS2	Desorption of adsorbed phosphates in sediment S2	BOTMIN
BODCOD	Mineralisation BOD and COD	BODCOD
DBOD_TEWOR	Oxydation of BOD	DECBOD
DecFast	Mineralization fast decomp. detritus POC1	DECDET
DecMedium	Mineralization medium decomp. detritus POC2	DECDET
DecSlow	Mineralization slow decomp. detritus POC3	DECDET
DecRefr	Mineralization part. refractory detritus POC4	DECDET
DecDOC	Mineralization DOC diss. refr. detritus	DECDET
DecPOC5	Mineralisation POC5	DECP05
Vivianit	Dissolution/precipitation of P in vivianite	VIVIAN
DisSi	Dissolution of Si in opal SWITCH defaults	DISSI
SedOXYDem	Sediment oxygen demand	SEDOX
TF_Green	Temperature functions for green algae	TFALG
TF_Diat	Temperature functions for diatoms	TFALG
DL_Green	Daylength function for green algae	DLALG
DL_Diat	Daylength function for diatoms	DLALG
DL_DiatS1	Daylength function for diatoms	DLALG
NLGreen	Nutrient limiation function for green algae	NLALG
NLDiat	Nutrient limiation function for diatoms	NLALG
Rad_Green	Light efficiency function green algae	RADALG
Rad_Diat	Light efficiency function diatoms	RADALG
Rad_DiatS1	Light efficiency function diatoms	RDBALG
GroMrt_Gre	Nett primary production and mortality green algae	PRIPRO
GroMrt_Dia	Nett primary production and mortality diatoms	PRIPRO
GroMrt_DS1	Nett primary production and mortality diatoms	SDPPRO
PPrLim	Limitation numerical on primary production	PPRLIM
NutUpt_Alg	Uptake of nutrients by growth of algae	NUTUPT
NutRel_Alg	Release nutrients/detritus by of mortality algae	NUTREL
NRAlg_S1	Nutrient release of algae in S1	NRALGS
OXYMin	Potential mimimum dissolved oxygen concentration	OXYMIN
CONSELAC	Consumption oxygen/other electron acceptors	CSELAC
EBULCH4	Ebullition of methane	EBUCH4
SaturCH4	Saturation concentration methane	SATCH4
VolatCH4	Volatilisation of methane	REAR
SPECSUD	Speciation of dissolved sulphide	SULFID
SPECSUDS1	Speciation of dissolved sulphide in S1	SULFID
SPECSUDS2	Speciation of dissolved sulphide in S2	SULFID
OXIDSUD	Oxidation of dissolved sulphide	SULFOX
PRECSUL	Precipitation and dissolution of sulphide	SULFPR
OXIDCH4	Oxidation of methane	METHOX
SPECIRON	Speciation of dissolved iron	SPECFE
IRONOX	Oxidation of dissolved iron	IRONOX
SULPHOX	Oxidation of iron sulphides	SULPHO
IRONRED	Reduction of iron by sulphides	IRONRE

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Table 1.1 – continued from previous page

Process	Description	Documented
PRIRON	Precipitation, dissolution and conversion of iron	PRIRON
CalVS_IM1	Sedimentation velocity IM1 = f Temp SS Sal	CALSED
CalVS_IM2	Sedimentation velocity IM2 = f Temp SS Sal	CALSED
CalVS_IM3	Sedimentation velocity IM3 = f Temp SS Sal	CALSED
CalVS_POC1	Sedimentation velocity POC1 = f Temp SS Sal	CALSED
CalVS_POC2	Sedimentation velocity POC2 = f Temp SS Sal	CALSED
CalVS_POC3	Sedimentation velocity POC3 = f Temp SS Sal	CALSED
CalVS_POC4	Sedimentation velocity POC4 = f Temp SS Sal	CALSED
CalVS_Diat	Sedimentation velocity Diat = f Temp SS Sal	CALSED
CalVS_Gree	Sedimentation velocity Gree = f Temp SS Sal	CALSED
CalVSALG	Sedimentation velocity algae = f Temp SS Sal	CALSED
CalVSALG01	Sedimentation velocity ALG01 = f Temp SS Sal	CALSED
CalVSALG02	Sedimentation velocity ALG02 = f Temp SS Sal	CALSED
CalVSALG03	Sedimentation velocity ALG03 = f Temp SS Sal	CALSED
CalVSALG04	Sedimentation velocity ALG04 = f Temp SS Sal	CALSED
CalVSALG05	Sedimentation velocity ALG05 = f Temp SS Sal	CALSED
CalVSALG06	Sedimentation velocity ALG06 = f Temp SS Sal	CALSED
CalVSALG07	Sedimentation velocity ALG07 = f Temp SS Sal	CALSED
CalVSALG08	Sedimentation velocity ALG08 = f Temp SS Sal	CALSED
CalVSALG09	Sedimentation velocity ALG09 = f Temp SS Sal	CALSED
CalVSALG10	Sedimentation velocity ALG10 = f Temp SS Sal	CALSED
CalVSALG11	Sedimentation velocity ALG11 = f Temp SS Sal	CALSED
CalVSALG12	Sedimentation velocity ALG12 = f Temp SS Sal	CALSED
CalVSALG13	Sedimentation velocity ALG13 = f Temp SS Sal	CALSED
CalVSALG14	Sedimentation velocity ALG14 = f Temp SS Sal	CALSED
CalVSALG15	Sedimentation velocity ALG15 = f Temp SS Sal	CALSED
CalVSALG16	Sedimentation velocity ALG16 = f Temp SS Sal	CALSED
CalVSALG17	Sedimentation velocity ALG17 = f Temp SS Sal	CALSED
CalVSALG18	Sedimentation velocity ALG18 = f Temp SS Sal	CALSED
CalVSALG19	Sedimentation velocity ALG19 = f Temp SS Sal	CALSED
CalVSALG20	Sedimentation velocity ALG20 = f Temp SS Sal	CALSED
CalVSALG21	Sedimentation velocity ALG21 = f Temp SS Sal	CALSED
CalVSALG22	Sedimentation velocity ALG22 = f Temp SS Sal	CALSED
CalVSALG23	Sedimentation velocity ALG23 = f Temp SS Sal	CALSED
CalVSALG24	Sedimentation velocity ALG24 = f Temp SS Sal	CALSED
CalVSALG25	Sedimentation velocity ALG25 = f Temp SS Sal	CALSED
CalVSALG26	Sedimentation velocity ALG26 = f Temp SS Sal	CALSED
CalVSALG27	Sedimentation velocity ALG27 = f Temp SS Sal	CALSED
CalVSALG28	Sedimentation velocity ALG28 = f Temp SS Sal	CALSED
CalVSALG29	Sedimentation velocity ALG29 = f Temp SS Sal	CALSED
CalVSALG30	Sedimentation velocity ALG30 = f Temp SS Sal	CALSED
Res_Pickup	Resuspension S2 van Rijn pick-up	RESPUP
Sed_IM1	Sedimentation IM1	SEDIM
Sed_IM2	Sedimentation IM2	SEDIM
Sed_IM3	Sedimentation IM3	SEDIM
SedDiat	Sedimentation diatoms	SEDCAR
Sed_Gre	Sedimentation green algae	SEDCAR
SEDALG	Sedimentation of algae species	SEDCAR
SEDALG01	Sedimentation of algae species 1	SEDCAR
SEDALG02	Sedimentation of algae species 2	SEDCAR
SEDALG03	Sedimentation of algae species 3	SEDCAR
SEDALG04	Sedimentation of algae species 4	SEDCAR
SEDALG05	Sedimentation of algae species 5	SEDCAR
SEDALG06	Sedimentation of algae species 6	SEDCAR
SEDALG07	Sedimentation of algae species 7	SEDCAR
SEDALG08	Sedimentation of algae species 8	SEDCAR
SEDALG09	Sedimentation of algae species 9	SEDCAR
SEDALG10	Sedimentation of algae species 10	SEDCAR
SEDALG11	Sedimentation of algae species 11	SEDCAR
SEDALG12	Sedimentation of algae species 12	SEDCAR
SEDALG13	Sedimentation of algae species 13	SEDCAR
SEDALG14	Sedimentation of algae species 14	SEDCAR
SEDALG15	Sedimentation of algae species 15	SEDCAR
SEDALG16	Sedimentation of algae species 16	SEDCAR
SEDALG17	Sedimentation of algae species 17	SEDCAR
SEDALG18	Sedimentation of algae species 18	SEDCAR
SEDALG19	Sedimentation of algae species 19	SEDCAR
SEDALG20	Sedimentation of algae species 20	SEDCAR
SEDALG21	Sedimentation of algae species 21	SEDCAR
SEDALG22	Sedimentation of algae species 22	SEDCAR
SEDALG23	Sedimentation of algae species 23	SEDCAR

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Table 1.1 – continued from previous page

Process	Description	Documented
SEDALG24	Sedimentation of algae species 24	SEDCAR
SEDALG25	Sedimentation of algae species 25	SEDCAR
SEDALG26	Sedimentation of algae species 26	SEDCAR
SEDALG27	Sedimentation of algae species 27	SEDCAR
SEDALG28	Sedimentation of algae species 28	SEDCAR
SEDALG29	Sedimentation of algae species 29	SEDCAR
SEDALG30	Sedimentation of algae species 30	SEDCAR
S_CBOD51	Sedimentation CBOD5 first pool	SEDCAR
S_CBOD52	Sedimentation CBOD5_2 second pool	SEDCAR
S_CBOD53	Sedimentation CBOD5_3 third pool	SEDCAR
S_CBODu1	Sedimentation CBODu first pool	SEDCAR
S_CBODu2	Sedimentation CBODu_2 second pool	SEDCAR
S_CODCr	Sedimentation COD Cr method	SEDCAR
S_CODMn	Sedimentation COD Mn method	SEDCAR
S_NBOD5	Sedimentation of NBOD5	SEDCAR
S_NBODu	Sedimentation of NBODu	SEDCAR
SED_SOD	Sedimentation of oxygen demand	SEDSOD
SedPhBlo_P	Sum sedimentation of algae - Bloom	SSEDPH
SedPhBlo	Sum sedimentation of algae - Bloom	SSEDPH
SedPhDyn	Sum sedimentation of algae - Dynamo	SSEDPH
Sed_MPB1	Sedimentation MPB1 peli algae 3d	SEDCAR
Sed_MPB2	Sedimentation MPB2 psam algae 3d	SEDCAR
Sed_Opal	Sedimentation Opal 3d	SEDCAR
Sed_POC1	Sedimentation POC1 3d	SEDCAR
Sed_POC2	Sedimentation POC2 3d	SEDCAR
Sed_POC3	Sedimentation POC3 3d	SEDCAR
Sed_POC4	Sedimentation POC4 3d	SEDCAR
Sed_VivP	Sedimentation vivianite 3d	SEDCAR
Sed_ApatP	Sedimentation Apatite-P	SEDCAR
Sed_Fe3pa	Sedimentation Fe3pa	SEDCAR
Sed_Fe3pc	Sedimentation Fe3pc	SEDCAR
Sed_FeS	Sedimentation FeS	SEDCAR
Sed_FeS2	Sedimentation FeS2	SEDCAR
Sed_FeCO3	Sedimentation FeCO3	SEDCAR
SedNPOC1	Sedim. nutrients in POC1	SEDNUT
SedNPOC2	Sedim. nutrients in POC2	SEDNUT
SedNPOC3	Sedim. nutrients in POC3	SEDNUT
SedNPOC4	Sedim. nutrients in POC4	SEDNUT
Sum_Sedim	Total of all sedimenting substances	SOMSED
Sed_AAP	Sedimentation AAP adsorbed PO4	SEDAAP
Sed_CAAP	Sedimentation adsorbed P as component	SEDCAR
Res_DM	Resuspension total bottom material dry mass	RESDM
Bur_DM	Burial total bottom mass dry matter	BURIAL
Dig_DM	Digging dry matter to sediment S1 and S2	DIGGIN
S12TraDetC	Resuspension, transport in S1-S2 DetC	S12TRA
S12TraDetN	Resuspension, transport in S1-S2 DetN	S12TRA
S12TraDetP	Resuspension, transport in S1-S2 DetP	S12TRA
S12TraDetS	Resuspension, transport in S1-S2 DetSi	S12TRA
S12TraOOC	Resuspension, transport in S1-S2 OOC	S12TRA
S12TraOON	Resuspension, transport in S1-S2 OON	S12TRA
S12TraOOP	Resuspension, transport in S1-S2 OOP	S12TRA
S12TraOOSi	Resuspension, transport in S1-S2 OOSi	S12TRA
S12TraDiat	Resuspension, transport in S1-S2 Diatoms	S12TRA
ResN_DiaS1	Resuspension nutrients in detritus	RESANT
ResN_DiaS2	Resuspension nutrients in detritus	RESANT
S12TraMPB1	Resuspension, transport in S1-S2 MPB1	S12TRA
S12TraMPB2	Resuspension, transport in S1-S2 MPB2	S12TRA
S12TraIM1	Resuspension, transport in S1-S2 IM1	S12TIM
S12TraIM2	Resuspension, transport in S1-S2 IM2	S12TIM
S12TraIM3	Resuspension, transport in S1-S2 IM3	S12TIM
S12TraAAP	Resuspension, transport in S1-S2 AAP	S12TRA
AdvTra	Advective transport of solids in sediment	ADVTRA
DSPTra	Dispersion/diffusion in the sediment	DSPTRA
RFPART_Cd	Reprofuctions for cadmium partition coefficient	RFPART
RFPART_Cu	Reprofuctions for copper partition coefficient	RFPART
RFPART_Pb	Reprofuctions for lead partition coefficient	RFPART
RFPART_Zn	Reprofuctions for zinc partition coefficient	RFPART
RFPART_Hg	Reprofuctions for mercury partition coefficient	RFPART
RFPART_Ni	Reprofuctions for nickel partition coefficient	RFPART
RFPART_Cr	Reprofuctions for chromium partition coefficient	RFPART
RFPART_As	Reprofuctions for arsenic partition coefficient	RFPART

continued on next page

Table 1.1 – continued from previous page

Process	Description	Documented
PartWK_Cd	Partitioning Cd in water column	PARTMP
PartWK_Cr	Partitioning Cr in water column	PARTMP
PartWK_Cu	Partitioning Cu in water column	PARTMP
PartWK_Hg	Partitioning Hg in water column	PARTMP
PartWK_Ni	Partitioning Ni in water column	PARTMP
PartWK_Pb	Partitioning Pb in water column	PARTMP
PartWK_As	Partitioning Arsenic in water column	PARTMP
PartWK_Va	Partitioning Va in water column	PARTMP
PartWK_Zn	Partitioning Zn in water column	PARTMP
PartS1_Cd	Partitioning Cd in S1	PARTMP
PartS1_Cr	Partitioning Cr in S1	PARTMP
PartS1_Cu	Partitioning Cu in S1	PARTMP
PartS1_Hg	Partitioning Hg in S1	PARTMP
PartS1_Ni	Partitioning Ni in S1	PARTMP
PartS1_Pb	Partitioning Pb in S1	PARTMP
PartS1_As	Partitioning As in S1	PARTMP
PartS1_Va	Partitioning Va in S1	PARTMP
PartS1_Zn	Partitioning Zn in S1	PARTMP
PartS2_Cd	Partitioning Cd in S2	PARTMP
PartS2_Cr	Partitioning Cr in S2	PARTMP
PartS2_Cu	Partitioning Cu in S2	PARTMP
PartS2_Hg	Partitioning Hg in S2	PARTMP
PartS2_Ni	Partitioning Ni in S2	PARTMP
PartS2_Pb	Partitioning Pb in S2	PARTMP
PartS2_As	Partitioning As in S2	PARTMP
PartS2_Va	Partitioning Va in S2	PARTMP
PartS2_Zn	Partitioning Zn in S2	PARTMP
PartS1_153	Partitioning 153 in S1	PARTMP
PartS1_Atr	Partitioning Atr in S1	PARTMP
PartS1_BaP	Partitioning BaP in S1	PARTMP
PartS1_Diu	Partitioning Diu in S1	PARTMP
PartS1_Flu	Partitioning Flu in S1	PARTMP
PartS1_HCB	Partitioning HCB in S1	PARTMP
PartS1_HCH	Partitioning HCH in S1	PARTMP
PartS1_Mef	Partitioning Mef in S1	PARTMP
PartS2_153	Partitioning 153 in S2	PARTMP
PartS2_Atr	Partitioning Atr in S2	PARTMP
PartS2_BaP	Partitioning BaP in S2	PARTMP
PartS2_Diu	Partitioning Diu in S2	PARTMP
PartS2_Flu	Partitioning Flu in S2	PARTMP
PartS2_HCB	Partitioning HCB in S2	PARTMP
PartS2_HCH	Partitioning HCH in S2	PARTMP
PartS2_Mef	Partitioning Mef in S2	PARTMP
PartWK_153	Partitioning 153 in water column	PARTMP
PartWK_Atr	Partitioning Atr in water column	PARTMP
PartWK_BaP	Partitioning BaP in water column	PARTMP
PartWK_Diu	Partitioning Diu in water column	PARTMP
PartWK_Flu	Partitioning Flu in water column	PARTMP
PartWK_HCB	Partitioning HCB in water column	PARTMP
PartWK_HCH	Partitioning HCH in water column	PARTMP
PartWK_Mef	Partitioning Mef in water column	PARTMP
TraSe2_IM1	Total of transport in sediment for IM1	TRASE2
TraSe2_OXY	Total of transport in sediment for OXY	TRASE2
TraSe2_BaP	Total of transport in sediment for BaP	TRASE2
TrSe2_POC1	Total of transport in sediment for POC1	TRASE2
TrSe2_POC2	Total of transport in sediment for POC2	TRASE2
TrSe2_POC3	Total of transport in sediment for POC3	TRASE2
TrSe2_PON1	Total of transport in sediment for PON1	TRASE2
TrSe2_PON2	Total of transport in sediment for PON2	TRASE2
TrSe2_PON3	Total of transport in sediment for PON3	TRASE2
TrSe2_POP1	Total of transport in sediment for POP1	TRASE2
TrSe2_POP2	Total of transport in sediment for POP2	TRASE2
TrSe2_POP3	Total of transport in sediment for POP3	TRASE2
TrSe2_POC4	Total of transport in sediment for POC4	TRASE2
TrSe2_PON4	Total of transport in sediment for PON4	TRASE2
TrSe2_POP4	Total of transport in sediment for POP4	TRASE2
TrSe2_POS1	Total of transport in sediment for POS1	TRASE2
TrSe2_POS2	Total of transport in sediment for POS2	TRASE2
TrSe2_POS3	Total of transport in sediment for POS3	TRASE2
TrSe2_POS4	Total of transport in sediment for POS4	TRASE2
TraSe2_DOC	Total of transport in sediment for DOC	TRASE2

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Table 1.1 – continued from previous page

Process	Description	Documented
TraSe2_DON	Total of transport in sediment for DON	TRASE2
TraSe2_DOP	Total of transport in sediment for DOP	TRASE2
TraSe2_DOS	Total of transport in sediment for DOS	TRASE2
TraSe2_NH4	Total of transport in sediment for NH4	TRASE2
TraSe2_PO4	Total of transport in sediment for PO4	TRASE2
TraSe2_NO3	Total of transport in sediment for NO3	TRASE2
TraSe2_SO4	Total of transport in sediment for SO4	TRASE2
TraSe2_CH4	Total of transport in sediment for CH4	TRASE2
TraSe2_SUD	Total of transport in sediment for SUD	TRASE2
TraSe2_SUP	Total of transport in sediment for SUP	TRASE2
TraSe2_IM2	Total of transport in sediment for IM2	TRASE2
TraSe2_IM3	Total of transport in sediment for IM3	TRASE2
TraSe2_Cl	Total of transport in sediment for Cl	TRASE2
TraSe2_Sal	Total of transport in sediment for Salinity	TRASE2
TraSe2_AAP	Total of transport in sediment for AAP	TRASE2
TraSe2_Si	Total of transport in sediment for Si	TRASE2
TrSe2_VIVP	Total of transport in sediment for VIVP	TRASE2
TrSe2_APAT	Total of transport in sediment for APATP	TRASE2
TrSe2_F3pa	Total of transport in sediment for Fe3pa	TRASE2
TrSe2_F3pc	Total of transport in sediment for Fe3pc	TRASE2
TrSe2_Fe3d	Total of transport in sediment for Fe3d	TRASE2
TrSe2_Fe2d	Total of transport in sediment for Fe2d	TRASE2
TrSe2_FeS	Total of transport in sediment for FeS	TRASE2
TrSe2_FeS2	Total of transport in sediment for FeS2	TRASE2
TrSe2_FCO3	Total of transport in sediment for FeCO3	TRASE2
TrSe2_Opal	Total of transport in sediment for Opal	TRASE2
TraSe2_TIC	Total of transport in sediment for TIC	TRASE2
TrSe2_Alka	Total of transport in sediment for Alka	TRASE2
TrSe2_MPB1	Total of transport in sediment for MPB1peli	TRASE2
TrSe2_MPB2	Total of transport in sediment for MPB2psam	TRASE2
TrSe2Alg01	Total of transport in sediment for BloomAlg01	TRASE2
TrSe2Alg02	Total of transport in sediment for BloomAlg02	TRASE2
TrSe2Alg03	Total of transport in sediment for BloomAlg03	TRASE2
TrSe2Alg04	Total of transport in sediment for BloomAlg04	TRASE2
TrSe2Alg05	Total of transport in sediment for BloomAlg05	TRASE2
TrSe2Alg06	Total of transport in sediment for BloomAlg06	TRASE2
TrSe2Alg07	Total of transport in sediment for BloomAlg07	TRASE2
TrSe2Alg08	Total of transport in sediment for BloomAlg08	TRASE2
TrSe2Alg09	Total of transport in sediment for BloomAlg09	TRASE2
TrSe2Alg10	Total of transport in sediment for BloomAlg10	TRASE2
TrSe2Alg11	Total of transport in sediment for BloomAlg11	TRASE2
TrSe2Alg12	Total of transport in sediment for BloomAlg12	TRASE2
TrSe2Alg13	Total of transport in sediment for BloomAlg13	TRASE2
TrSe2Alg14	Total of transport in sediment for BloomAlg14	TRASE2
TrSe2Alg15	Total of transport in sediment for BloomAlg15	TRASE2
TrSe2Alg16	Total of transport in sediment for BloomAlg16	TRASE2
TrSe2Alg17	Total of transport in sediment for BloomAlg17	TRASE2
TrSe2Alg18	Total of transport in sediment for BloomAlg18	TRASE2
TrSe2Alg19	Total of transport in sediment for BloomAlg19	TRASE2
TrSe2Alg20	Total of transport in sediment for BloomAlg20	TRASE2
TrSe2Alg21	Total of transport in sediment for BloomAlg21	TRASE2
TrSe2Alg22	Total of transport in sediment for BloomAlg22	TRASE2
TrSe2Alg23	Total of transport in sediment for BloomAlg23	TRASE2
TrSe2Alg24	Total of transport in sediment for BloomAlg24	TRASE2
TrSe2Alg25	Total of transport in sediment for BloomAlg25	TRASE2
TrSe2Alg26	Total of transport in sediment for BloomAlg26	TRASE2
TrSe2Alg27	Total of transport in sediment for BloomAlg27	TRASE2
TrSe2Alg28	Total of transport in sediment for BloomAlg28	TRASE2
TrSe2Alg29	Total of transport in sediment for BloomAlg29	TRASE2
TrSe2Alg30	Total of transport in sediment for BloomAlg30	TRASE2
UlvaFix_P	Fixation of BLOOM algae at the bottom	ULFIX
UlvaFix	Fixation of BLOOM algae at the bottom	ULFIX
CONSBL	Grazing module	CONSBL
SwOXYParWK	Calculates Crit Oxygen conc. for partitioning	SWOXY
TrCoef_153	Gas and liquid exchange coefficients PCB-153	TRCOEF
Volat_153	Atmospheric exch. 153 volatilization/intake	VERVLU
TrCoef_HCB	Gas and liquid exchange coefficients HCB	TRCOEF
Volat_HCB	Atmospheric exch. HCB volatilization/intake	VERVLU
TrCoef_HCH	Gas and liquid exchange coefficients HCH	TRCOEF
Volat_HCH	Atmospheric exch. HCH volatilization/intake	VERVLU
TrCoef_Flu	Gas and liquid exchange coefficients Flu	TRCOEF

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Table 1.1 – continued from previous page

Process	Description	Documented
Volat_Flu	Atmospheric exch. Flu volatilization/intake	VERVLU
TrCoef_BaP	Gas and liquid exchange coefficients BaP	TRCOEF
Volat_BaP	Atmospheric exch. BaP volatilization/intake	VERVLU
TrCoef_Atr	Gas and liquid exchange coefficients Atr	TRCOEF
Volat_Atr	Atmospheric exch. Atr volatilization/intake	VERVLU
TrCoef_Mef	Gas and liquid exchange coefficients Mef	TRCOEF
Volat_Mef	Atmospheric exch. Mef volatilization/intake	VERVLU
TrCoef_Diu	Gas and liquid exchange coefficients Diu	TRCOEF
Volat_Diu	Atmospheric exch. Diu volatilization/intake	VERVLU
Los_WK_153	Overall loss of 153 from water column	DEGMP
Los_WK_HCB	Overall loss of HCB from water column	DEGMP
Los_WK_HCH	Overall loss of HCH from water column	DEGMP
Los_WK_Flu	Overall loss of Flu from water column	DEGMP
Los_WK_BaP	Overall loss of BaP from water column	DEGMP
Los_WK_Atr	Overall loss of Atr from water column	DEGMP
Los_WK_Mef	Overall loss of Mef from water column	DEGMP
Los_WK_Diu	Overall loss of Diu from water column	DEGMP
Los_S1_153	Overall loss of 153 from S1	DEGMP
Los_S1_HCB	Overall loss of HCB from S1	DEGMP
Los_S1_HCH	Overall loss of HCH from S1	DEGMP
Los_S1_Flu	Overall loss of Flu from S1	DEGMP
Los_S1_BaP	Overall loss of BaP from S1	DEGMP
Los_S1_Atr	Overall loss of Atr from S1	DEGMP
Los_S1_Mef	Overall loss of Mef from S1	DEGMP
Los_S1_Diu	Overall loss of Diu from S1	DEGMP
Los_S2_153	Overall loss of 153 from S2	DEGMP
Los_S2_HCB	Overall loss of HCB from S2	DEGMP
Los_S2_HCH	Overall loss of HCH from S2	DEGMP
Los_S2_Flu	Overall loss of Flu from S2	DEGMP
Los_S2_BaP	Overall loss of BaP from S2	DEGMP
Los_S2_Atr	Overall loss of Atr from S2	DEGMP
Los_S2_Mef	Overall loss of Mef from S2	DEGMP
Los_S2_Diu	Overall loss of Diu from S2	DEGMP
Sed_Cd	Sedimentation adsorbed Cd	SEDHM
Sed_Cu	Sedimentation adsorbed Cu	SEDHM
Sed_Zn	Sedimentation adsorbed Zn	SEDHM
Sed_Hg	Sedimentation adsorbed Hg	SEDHM
Sed_Ni	Sedimentation adsorbed Ni	SEDHM
Sed_Pb	Sedimentation adsorbed Pb	SEDHM
Sed_Cr	Sedimentation adsorbed Cr	SEDHM
Sed_As	Sedimentation adsorbed As	SEDHM
Sed_Va	Sedimentation adsorbed Va	SEDHM
Sed_153	Sedimentation adsorbed 153	SEDOMV
Sed_HCB	Sedimentation adsorbed HCB	SEDOMV
Sed_HCH	Sedimentation adsorbed HCH	SEDOMV
Sed_Flu	Sedimentation adsorbed Flu	SEDOMV
Sed_Bap	Sedimentation adsorbed Bap	SEDOMV
Sed_Atr	Sedimentation adsorbed Atr	SEDOMV
Sed_Mef	Sedimentation adsorbed Mef	SEDOMV
Sed_Diu	Sedimentation adsorbed Diu	SEDOMV
S12TraAs	Resuspension, transport in S1-S2 As	S12TRA
S12TraCd	Resuspension, transport in S1-S2 Cd	S12TRA
S12TraCr	Resuspension, transport in S1-S2 Cr	S12TRA
S12TraCu	Resuspension, transport in S1-S2 Cu	S12TRA
S12TraHg	Resuspension, transport in S1-S2 Hg	S12TRA
S12TraNi	Resuspension, transport in S1-S2 Ni	S12TRA
S12TraPb	Resuspension, transport in S1-S2 Pb	S12TRA
S12TraVa	Resuspension, transport in S1-S2 Va	S12TRA
S12TraZn	Resuspension, transport in S1-S2 Zn	S12TRA
S12Tra153	Resuspension, transport in S1-S2 153	S12TRA
S12TraAtr	Resuspension, transport in S1-S2 Atr	S12TRA
S12TraMef	Resuspension, transport in S1-S2 Mef	S12TRA
S12TraDiu	Resuspension, transport in S1-S2 Diu	S12TRA
S12TraBaP	Resuspension, transport in S1-S2 BaP	S12TRA
S12TraOMP	Resuspension, transport in S1-S2 OMP	S12TRA
S12TraFlu	Resuspension, transport in S1-S2 Flu	S12TRA
S12TraHCB	Resuspension, transport in S1-S2 HCB	S12TRA
S12TraHCH	Resuspension, transport in S1-S2 HCH	S12TRA
Evap_Conti	Evaporation and rain continuity	ATMDEP
AtmDep_IM1	Atmospheric deposition IM1	ATMDEP
AtmDep_IM2	Atmospheric deposition IM2	ATMDEP

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Table 1.1 – continued from previous page

Process	Description	Documented
AtmDep_IM3	Atmospheric deposition IM3	ATMDEP
Dfwast_IM1	Diffusive waste IM1	ATMDEP
Dfwast_IM2	Diffusive waste IM2	ATMDEP
Dfwast_IM3	Diffusive waste IM3	ATMDEP
AtmDep_NH4	Atmospheric deposition NH4	ATMDEP
AtmDep_NO3	Atmospheric deposition NO3	ATMDEP
AtmDep_PO4	Atmospheric deposition PO4	ATMDEP
AtmDep_SO4	Atmospheric deposition SO4	ATMDEP
AtmDep_153	Atmospheric deposition 153	ATMDEP
AtmDep_HCB	Atmospheric deposition HCB	ATMDEP
AtmDep_HCH	Atmospheric deposition HCH	ATMDEP
AtmDep_Flu	Atmospheric deposition Flu	ATMDEP
AtmDep_Bap	Atmospheric deposition Bap	ATMDEP
AtmDep_Atr	Atmospheric deposition Atr	ATMDEP
AtmDep_Mef	Atmospheric deposition Mef	ATMDEP
AtmDep_Diu	Atmospheric deposition Diu	ATMDEP
AtmDep_Cd	Atmospheric deposition Cd	ATMDEP
AtmDep_Cu	Atmospheric deposition Cu	ATMDEP
AtmDep_Zn	Atmospheric deposition Zn	ATMDEP
AtmDep_Hg	Atmospheric deposition Hg	ATMDEP
AtmDep_Ni	Atmospheric deposition Ni	ATMDEP
AtmDep_Pb	Atmospheric deposition Pb	ATMDEP
AtmDep_Cr	Atmospheric deposition Cr	ATMDEP
AtmDep_As	Atmospheric deposition As	ATMDEP
AtmDep_Va	Atmospheric deposition Va	ATMDEP
Dfwast_NO3	Diffusive waste NO3	ATMDEP
Dfwast_NH4	Diffusive waste NH4	ATMDEP
Dfwast_PO4	Diffusive waste PO4	ATMDEP
Dfwast_Si	Diffusive waste Si	ATMDEP
Dfwast_SO4	Diffusive waste SO4	ATMDEP
Dfwast_153	Diffusive waste 153	ATMDEP
Dfwast_HCB	Diffusive waste HCB	ATMDEP
Dfwast_HCH	Diffusive waste HCH	ATMDEP
Dfwast_Flu	Diffusive waste Flu	ATMDEP
Dfwast_Bap	Diffusive waste Bap	ATMDEP
Dfwast_Atr	Diffusive waste Atr	ATMDEP
Dfwast_Mef	Diffusive waste Mef	ATMDEP
Dfwast_Diu	Diffusive waste Diu	ATMDEP
Dfwast_Cd	Diffusive waste Cd	ATMDEP
Dfwast_Cu	Diffusive waste Cu	ATMDEP
Dfwast_Zn	Diffusive waste Zn	ATMDEP
Dfwast_Hg	Diffusive waste Hg	ATMDEP
Dfwast_Ni	Diffusive waste Ni	ATMDEP
Dfwast_Pb	Diffusive waste Pb	ATMDEP
Dfwast_Cr	Diffusive waste Cr	ATMDEP
Dfwast_As	Diffusive waste As	ATMDEP
Dfwast_Va	Diffusive waste Va	ATMDEP
NH3free	Calculation conc. unionized ammonia	NH3FRE
PosOXY	Positive oxygen concentration	POSOXY
Secchi	Secchi depth for visible-light 370-680nm	SECCHI
Prod_TEWOR	Production fluxes for TEWOR+	PTEWOR
PartS1_OMP	Partitioning OMP in S1	PARTMP
PartS2_OMP	Partitioning OMP in S2	PARTMP
PartWK_OMP	Partitioning OMP in water column	PARTMP
TrCoef_OMP	Gas and liquid exchange coefficients OMP	TRCOEF
Volat_OMP	Atmospheric exch. OMP volatilization/intake	VERVLU
Los_WK_OMP	Overall loss of OMP from water column	DEGMP
Los_S1_OMP	Overall loss of OMP from S1	DEGMP
Los_S2_OMP	Overall loss of OMP from S2	DEGMP
Sed_OMP	Sedimentation adsorbed OMP	SEDOMV
AtmDep_OMP	Atmospheric deposition OMP	ATMDEP
Dfwast_OMP	Diffusive waste OMP	ATMDEP
TraSe2_OMP	Total of transport in sediment for OMP	TRASE2
Damrear	Reaeration at weirs	STREAR
TRSOXY	Correction vertical transport OXY emersion	TRSOXY
APATITE	Dissolution/precipitation of apatite-like mineral	APATIT
HarveZoop	Harvesting zooplankton-grazer1	HARVES
HarveMuss	Harvesting mussel-grazer2	HARVES
HarveG3	Harvesting grazer3	HARVES
HarveG4	Harvesting grazer4	HARVES
HarveG5	Harvesting grazer5	HARVES

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Table 1.1 – continued from previous page

Process	Description	Documented
VB01availN	Vegetation module VB01 availability of nutrients	VEG2DN
VBStatus01	Status of Vegation Biomass cohort 01	VBSTAT
VBGrowth01	Vegation Biomass Growth	VBGRO
VB Mort01	Vegation Biomass Mortality	VB MRT
VB01_Mrt3W	Vegetation module mortality 3D flux water	VEG3DX
VB01_Mrt3S	Vegetation module mortality 3D flux sediment	VEG3DX
VB01Upt	Vegetation Biomass Nutrient Uptake	VB UPT
VB01_Upt3D	Vegetation module uptake 3D flux distribution	VEG3DU
VB02availN	Vegetation module VB02 availability of nutrients	VEG2DN
VBStatus02	Status of Vegation Biomass cohort 02	VBSTAT
VBGrowth02	Vegation Biomass Growth	VBGRO
VB Mort02	Vegation Biomass Mortality	VB MRT
VB02_Mrt3W	Vegetation module mortality 3D flux water	VEG3DX
VB02_Mrt3S	Vegetation module mortality 3D flux sediment	VEG3DX
VB02Upt	Vegetation Biomass Nutrient Uptake	VB UPT
VB02_Upt3D	Vegetation module uptake 3D flux distribution	VEG3DU
VB03availN	Vegetation module VB03 availability of nutrients	VEG2DN
VBStatus03	Status of Vegation Biomass cohort 03	VBSTAT
VBGrowth03	Vegation Biomass Growth	VBGRO
VB Mort03	Vegation Biomass Mortality	VB MRT
VB03_Mrt3W	Vegetation module mortality 3D flux water	VEG3DX
VB03_Mrt3S	Vegetation module mortality 3D flux sediment	VEG3DX
VB03Upt	Vegetation Biomass Nutrient Uptake	VB UPT
VB03_Upt3D	Vegetation module VB03 uptake 3D flux distribution	VEG3DU
VB04availN	Vegetation module VB04 availability of nutrients	VEG2DN
VBStatus04	Status of Vegation Biomass cohort 04	VBSTAT
VBGrowth04	Vegation Biomass Growth	VBGRO
VB Mort04	Vegation Biomass Mortality	VB MRT
VB04_Mrt3W	Vegetation module mortality 3D flux water	VEG3DX
VB04_Mrt3S	Vegetation module mortality 3D flux sediment	VEG3DX
VB04Upt	Vegetation Biomass Nutrient Uptake	VB UPT
VB04_Upt3D	Vegetation module VB04 uptake 3D flux distribution	VEG3DU
VB05availN	Vegetation module VB05 availability of nutrients	VEG2DN
VBStatus05	Status of Vegation Biomass cohort 05	VBSTAT
VBGrowth05	Vegation Biomass Growth	VBGRO
VB Mort05	Vegation Biomass Mortality	VB MRT
VB05_Mrt3W	Vegetation module mortality 3D flux water	VEG3DX
VB05_Mrt3S	Vegetation module mortality 3D flux sediment	VEG3DX
VB05Upt	Vegetation Biomass Nutrient Uptake	VB UPT
VB05_Upt3D	Vegetation module VB05 uptake 3D flux distribution	VEG3DU
VB06availN	Vegetation module VB06 availability of nutrients	VEG2DN
VBStatus06	Status of Vegation Biomass cohort 06	VBSTAT
VBGrowth06	Vegation Biomass Growth	VBGRO
VB Mort06	Vegation Biomass Mortality	VB MRT
VB06_Mrt3W	Vegetation module mortality 3D flux water	VEG3DX
VB06_Mrt3S	Vegetation module mortality 3D flux sediment	VEG3DX
VB06Upt	Vegetation Biomass Nutrient Uptake	VB UPT
VB06_Upt3D	Vegetation module VB06 uptake 3D flux distribution	VEG3DU
VB07availN	Vegetation module VB07 availability of nutrients	VEG2DN
VBStatus07	Status of Vegation Biomass cohort 07	VBSTAT
VBGrowth07	Vegation Biomass Growth	VBGRO
VB Mort07	Vegation Biomass Mortality	VB MRT
VB07_Mrt3W	Vegetation module mortality 3D flux water	VEG3DX
VB07_Mrt3S	Vegetation module mortality 3D flux sediment	VEG3DX
VB07Upt	Vegetation Biomass Nutrient Uptake	VB UPT
VB07_Upt3D	Vegetation module VB07 uptake 3D flux distribution	VEG3DU
VB08availN	Vegetation module VB08 availability of nutrients	VEG2DN
VBStatus08	Status of Vegation Biomass cohort 08	VBSTAT
VBGrowth08	Vegation Biomass Growth	VBGRO
VB Mort08	Vegation Biomass Mortality	VB MRT
VB08_Mrt3W	Vegetation module mortality 3D flux water	VEG3DX
VB08_Mrt3S	Vegetation module mortality 3D flux sediment	VEG3DX
VB08Upt	Vegetation Biomass Nutrient Uptake	VB UPT
VB08_Upt3D	Vegetation module VB08 uptake 3D flux distribution	VEG3DU
VB09availN	Vegetation module VB09 availability of nutrients	VEG2DN
VBStatus09	Status of Vegation Biomass cohort 09	VBSTAT
VBGrowth09	Vegation Biomass Growth	VBGRO
VB Mort09	Vegation Biomass Mortality	VB MRT
VB09_Mrt3W	Vegetation module mortality 3D flux water	VEG3DX
VB09_Mrt3S	Vegetation module mortality 3D flux sediment	VEG3DX
VB09Upt	Vegetation Biomass Nutrient Uptake	VB UPT

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Table 1.1 – continued from previous page

Process	Description	Documented
VB09_Upt3D	Vegetation module VB09 uptake 3D flux distribution	VEG3DU
Rad_SM01	Light efficiency function submerged macrophyt 1	RADMAC
Rad_SM02	Light efficiency function submerged macrophyt 2	RADMAC
Rad_SM03	Light efficiency function submerged macrophyt 3	RADMAC
Rad_SM04	Light efficiency function submerged macrophyt 4	RADMAC
Rad_SM05	Light efficiency function submerged macrophyt 5	RADMAC
NPPoreS12	NH4 and PO4 in pore water S12	NPPS12
MACNUTSM01	Nutrient limitation function for macrophyte SM01	MACNUT
MACNUTSM02	Nutrient limitation function for macrophyte SM02	MACNUT
MACNUTSM03	Nutrient limitation function for macrophyte SM03	MACNUT
MACNUTSM04	Nutrient limitation function for macrophyte SM04	MACNUT
MACNUTSM05	Nutrient limitation function for macrophyte SM05	MACNUT
MacroPhyt1	Macrophyte production species 1	MACROP
SM01_Upt3D	Macrophyte module uptake 3D flux distribution	MAC3DU
MacroPhyt2	Macrophyte production species 2	MACROP
SM02_Upt3D	Macrophyte module uptake 3D flux distribution	MAC3DU
MacroPhyt3	Macrophyte production species 3	MACROP
SM03_Upt3D	Macrophyte module uptake 3D flux distribution	MAC3DU
MacroPhyt4	Macrophyte production species 4	MACROP
SM04_Upt3D	Macrophyte module uptake 3D flux distribution	MAC3DU
MacroPhyt5	Macrophyte production species 5	MACROP
SM05_Upt3D	Macrophyte module uptake 3D flux distribution	MAC3DU
GRZMAC01	Grazing on macrophyte 01	GRZMAC
GRZMAC02	Grazing on macrophyte 02	GRZMAC
GRZMAC03	Grazing on macrophyte 03	GRZMAC
GRZMAC04	Grazing on macrophyte 04	GRZMAC
GRZMAC05	Grazing on macrophyte 05	GRZMAC
HRVMAC01	Harvesting on macrophyte 01	GRZMAC
HRVMAC02	Harvesting on macrophyte 02	GRZMAC
HRVMAC03	Harvesting on macrophyte 03	GRZMAC
HRVMAC04	Harvesting on macrophyte 04	GRZMAC
HRVMAC05	Harvesting on macrophyte 05	GRZMAC
DEBGRZ_M	Dynamics of DEB Mussel def: benthic V1-morphs	DEBGRZ
DEBGRZ_Z	Dynamics of DEB Zooplankton def: active V1morphs	DEBGRZ
DEBGRZ_G3	Dynamics of DEB Grazer3 def: passive isomorphs	DEBGRZ
DEBGRZ_G4	Dynamics of DEB Grazer4 def: passive isomorphs	DEBGRZ
DEBGRZ_G5	Dynamics of DEB Grazer5 def: passive isomorphs	DEBGRZ
Dredge	Dredging and dumping of basins	DREDGE
IM_Floceq	Flocculation equilibrium empirical model Manning	FLOCEQ

2 Per substance a listing of the modelled fluxes

Table 2.1: Per substance a listing of the modelled fluxes

Substance	Description	Unit	Process
Continuity	dummy flux to access Emersion	-	Emersion
Continuity	dummy flux to access restim	-	ResTim
Continuity	dummy flux to access HorzDisper	-	HDisperVel
Continuity	dummy flux to access HorzDisper	-	HDisperAdd
Continuity	nett evaporation and rain continuity	m/d	Evap_Conti
ModTemp	temperature exchange flux	°C/d	Temperatur
FrCon	dummy flux to access HorzDisper	-	VarSal
FrCon	dummy flux to access HorzDisper	-	HDisperVel
FrCon	dummy flux to access HorzDisper	-	HDisperAdd
FrFlow	dummy flux to access HorzDisper	-	VarSal
FrFlow	dummy flux to access HorzDisper	-	HDisperVel
FrFlow	dummy flux to access HorzDisper	-	HDisperAdd
SalBnd	dummy flux to access HorzDisper	-	VarSal
SalBnd	dummy flux to access HorzDisper	-	HDisperVel
SalBnd	dummy flux to access HorzDisper	-	HDisperAdd
OXY	dummy flux to access VertDisper	-	VertDisp
OXY	dummy flux to access HorzDisper	-	HorzDisper
OXY	dummy flux to access HorzDisper	-	HDisperVel
OXY	dummy flux to access HorzDisper	-	HDisperAdd
OXY	autolysis flux of carbon	gC/m ³ /d	BLOOM_P
OXY	uptake of NO3 by algae growth	gN/m ³ /d	BLOOM_P
OXY	uptake of carbon by algae growth	gC/m ³ /d	BLOOM_P
OXY	denitrification flux in the water column	gN/m ³ /d	DenWat_NO3
OXY	nitrification flux	gN/m ³ /d	Nitrif_NH4
OXY	reaeration flux of dissolved oxygen	gO2/m ³ /d	RearOXY
OXY	var. uptake of carbon by algae growth	gC/m ³ /d	VAROXY
OXY	mineralisation flux DetCS1	gC/m ³ /d	BMS1_DetC
OXY	mineralisation flux DetCS2	gC/m ³ /d	BMS2_DetC
OXY	mineralisation flux OOCs1	gC/m ³ /d	BMS1_OOC
OXY	mineralisation flux OOCs2	gC/m ³ /d	BMS2_OOC
OXY	oxygen consumption from decay BOD and COD	gO2/m ³ /d	BODCOD
OXY	TEWOR oxygen demand by decay of BODU	gO2/m ³ /d	DBOD_TEWOR
OXY	min. flux POC5 to CO2 emersed	gC/m ³ /d	DecPOC5
OXY	min. flux POC5 to CO2 atmosphere	gC/m ³ /d	DecPOC5
OXY	oxygen consumption from SOD	gO2/m ³ /d	SedOXYDem
OXY	net primary production of Greens	gC/m ³ /d	GroMrt_Gre
OXY	net primary production of Diatoms	gC/m ³ /d	GroMrt_Dia
OXY	net primary production of Diatoms in layer S1	gC/m ³ /d	GroMrt_DS1
OXY	uptake of NO3 by algae growth in layer S1	gN/m ³ /d	GroMrt_DS1
OXY	correction flux Greens growth	gN/m ³ /d	PPrLim
OXY	correction flux Diatoms growth	gN/m ³ /d	PPrLim
OXY	dummy flux to access OXYMin	-	OXYMin
OXY	mineralisation flux oxidised with DO	gC/m ³ /d	CONSELAC
OXY	sulphide oxidation flux	gS/m ³ /d	OXIDSUD
OXY	methane oxidation flux with DO	gC/m ³ /d	OXIDCH4
OXY	rate of iron oxidation with oxygen	gFe/m ³ /d	IRONOX
OXY	rate of iron sulphide oxidation	gFe/m ³ /d	SULPHOX
OXY	rate of of pyrite oxidation	gFe/m ³ /d	SULPHOX
OXY	flux to dissolved carbon from grazing	gC/m ³ /d	CONSBL
OXY	dummy flux to access posoxy	-	PosOXY
OXY	TEWOR production flux of OXY	gO2/m ³ /d	Prod_TEWOR
OXY	oxygen production flux at weirs	gO2/m ³ /d	Damrear
OXY	direct reaaration towards sediment	g/m ³ /d	TRSOXY
OXY	OXY production by SM01	gC/m ³ /d	SM01_Upt3D
OXY	OXY production by SM02	gC/m ³ /d	SM02_Upt3D
OXY	OXY production by SM03	gC/m ³ /d	SM03_Upt3D
OXY	OXY production by SM04	gC/m ³ /d	SM04_Upt3D
OXY	OXY production by SM05	gC/m ³ /d	SM05_Upt3D
OXY	respiration flux of DEB Mussel	gC/m ³ /d	DEBGRZ_M
OXY	respiration flux DEB Zooplankton	gC/m ³ /d	DEBGRZ_Z
OXY	respiration flux of DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
OXY	respiration flux of DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
OXY	respiration flux of DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
Salinity	dummy flux to access HorzDisper	-	HDisperVel
Salinity	dummy flux to access HorzDisper	-	HDisperAdd

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Table 2.1 – continued from previous page

Substance	Description	Unit	Process
IM1	dummy flux to access MakOOC	-	MakOOC
IM1	dummy flux to access Compos	-	Compos
IM1	pick-up resuspension flux IM1 from S2	g/m ³ /d	Res_Pickup
IM1	sedimentation flux of IM1 towards S1	g/m ³ /d	Sed_IM1
IM1	sedimentation flux of IM1 towards S2	g/m ³ /d	Sed_IM1
IM1	resuspension flux IM1 from layer S1	g/m ³ /d	S12TraIM1
IM1	resuspension flux IM1 from layer S2	g/m ³ /d	S12TraIM1
IM1	atmospheric deposition flux IM1	g/m ³ /d	AtmDep_IM1
IM1	diffusive waste flux IM1	g/m ³ /d	Dfwast_IM1
IM1	dummy flux to access Secchi	-	Secchi
IM1	dumping IM1	g/m ³ /d	Dredge
IM1	flocculation or break-up flux IM1	g/m ³ /d	IM_Floceq
IM2	dummy flux to access MakOOC	-	MakOOC
IM2	dummy flux to access Compos	-	Compos
IM2	pick-up resuspension flux IM2 from S2	g/m ³ /d	Res_Pickup
IM2	sedimentation flux of IM2 towards S1	g/m ³ /d	Sed_IM2
IM2	sedimentation flux of IM2 towards S2	g/m ³ /d	Sed_IM2
IM2	resuspension flux IM2 from layer S1	g/m ³ /d	S12TraIM2
IM2	resuspension flux IM2 from layer S2	g/m ³ /d	S12TraIM2
IM2	atmospheric deposition flux IM2	g/m ³ /d	AtmDep_IM2
IM2	diffusive waste flux IM2	g/m ³ /d	Dfwast_IM2
IM2	dumping IM2	g/m ³ /d	Dredge
IM2	flocculation or break-up flux IM2	g/m ³ /d	IM_Floceq
IM3	dummy flux to access MakOOC	-	MakOOC
IM3	dummy flux to access Compos	-	Compos
IM3	pick-up resuspension flux IM3 from S2	g/m ³ /d	Res_Pickup
IM3	sedimentation flux of IM3 towards S1	g/m ³ /d	Sed_IM3
IM3	sedimentation flux of IM3 towards S2	g/m ³ /d	Sed_IM3
IM3	resuspension flux IM3 from layer S1	g/m ³ /d	S12TraIM3
IM3	resuspension flux IM3 from layer S2	g/m ³ /d	S12TraIM3
IM3	atmospheric deposition flux IM3	g/m ³ /d	AtmDep_IM3
IM3	diffusive waste flux IM3	g/m ³ /d	Dfwast_IM3
IM3	dumping IM3	g/m ³ /d	Dredge
IM3	flocculation or break-up flux IM3	g/m ³ /d	IM_Floceq
Cd	sedimentation flux Cd towards S1	gCd/m ³ /d	Sed_Cd
Cd	sedimentation flux Cd towards S2	gCd/m ³ /d	Sed_Cd
Cd	resuspension flux Cd from layer S1	gCd/m ³ /d	S12TraCd
Cd	resuspension flux Cd from layer S2	gCd/m ³ /d	S12TraCd
Cd	atmospheric deposition flux Cd	gCd/m ³ /d	AtmDep_Cd
Cd	diffusive waste flux Cd	gCd/m ³ /d	Dfwast_Cd
Cu	sedimentation flux Cu towards S1	gCu/m ³ /d	Sed_Cu
Cu	sedimentation flux Cu towards S2	gCu/m ³ /d	Sed_Cu
Cu	resuspension flux Cu from layer S1	gCu/m ³ /d	S12TraCu
Cu	resuspension flux Cu from layer S2	gCu/m ³ /d	S12TraCu
Cu	atmospheric deposition flux Cu	gCu/m ³ /d	AtmDep_Cu
Cu	diffusive waste flux Cu	gCu/m ³ /d	Dfwast_Cu
Zn	sedimentation flux Zn towards S1	gZn/m ³ /d	Sed_Zn
Zn	sedimentation flux Zn towards S2	gZn/m ³ /d	Sed_Zn
Zn	resuspension flux Zn from layer S1	gZn/m ³ /d	S12TraZn
Zn	resuspension flux Zn from layer S2	gZn/m ³ /d	S12TraZn
Zn	atmospheric deposition flux Zn	gZn/m ³ /d	AtmDep_Zn
Zn	diffusive waste flux Zn	gZn/m ³ /d	Dfwast_Zn
Cr	sedimentation flux Cr towards S1	gCr/m ³ /d	Sed_Cr
Cr	sedimentation flux Cr towards S2	gCr/m ³ /d	Sed_Cr
Cr	resuspension flux Cr from layer S1	gCr/m ³ /d	S12TraCr
Cr	resuspension flux Cr from layer S2	gCr/m ³ /d	S12TraCr
Cr	atmospheric deposition flux Cr	gCr/m ³ /d	AtmDep_Cr
Cr	diffusive waste flux Cr	gCr/m ³ /d	Dfwast_Cr
Hg	sedimentation flux Hg towards S1	gHg/m ³ /d	Sed_Hg
Hg	sedimentation flux Hg towards S2	gHg/m ³ /d	Sed_Hg
Hg	resuspension flux Hg from layer S1	gHg/m ³ /d	S12TraHg
Hg	resuspension flux Hg from layer S2	gHg/m ³ /d	S12TraHg
Hg	atmospheric deposition flux Hg	gHg/m ³ /d	AtmDep_Hg
Hg	diffusive waste flux Hg	gHg/m ³ /d	Dfwast_Hg
Pb	sedimentation flux Pb towards S1	gPb/m ³ /d	Sed_Pb
Pb	sedimentation flux Pb towards S2	gPb/m ³ /d	Sed_Pb
Pb	resuspension flux Pb from layer S1	gPb/m ³ /d	S12TraPb
Pb	resuspension flux Pb from layer S2	gPb/m ³ /d	S12TraPb

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Table 2.1 – continued from previous page

Substance	Description	Unit	Process
Pb	atmospheric deposition flux Pb	$\text{gPb/m}^3/\text{d}$	AtmDep_Pb
Pb	diffusive waste flux Pb	$\text{gPb/m}^3/\text{d}$	Dfwast_Pb
As	sedimentation flux As towards S1	$\text{gAs/m}^3/\text{d}$	Sed_As
As	sedimentation flux As towards S2	$\text{gAs/m}^3/\text{d}$	Sed_As
As	resuspension flux As from layer S1	$\text{gAs/m}^3/\text{d}$	S12TraAs
As	resuspension flux As from layer S2	$\text{gAs/m}^3/\text{d}$	S12TraAs
As	atmospheric deposition flux As	$\text{gAs/m}^3/\text{d}$	AtmDep_As
As	diffusive waste flux As	$\text{gAs/m}^3/\text{d}$	Dfwast_As
Va	sedimentation flux Va towards S1	$\text{gVa/m}^3/\text{d}$	Sed_Va
Va	sedimentation flux Va towards S2	$\text{gVa/m}^3/\text{d}$	Sed_Va
Va	resuspension flux Va from layer S1	$\text{gVa/m}^3/\text{d}$	S12TraVa
Va	resuspension flux Va from layer S2	$\text{gVa/m}^3/\text{d}$	S12TraVa
Va	atmospheric deposition flux Va	$\text{gVa/m}^3/\text{d}$	AtmDep_Va
Va	diffusive waste flux Va	$\text{gVa/m}^3/\text{d}$	Dfwast_Va
Ni	sedimentation flux Ni towards S1	$\text{gNi/m}^3/\text{d}$	Sed_Ni
Ni	sedimentation flux Ni towards S2	$\text{gNi/m}^3/\text{d}$	Sed_Ni
Ni	resuspension flux Ni from layer S1	$\text{gNi/m}^3/\text{d}$	S12TraNi
Ni	resuspension flux Ni from layer S2	$\text{gNi/m}^3/\text{d}$	S12TraNi
Ni	atmospheric deposition flux Ni	$\text{gNi/m}^3/\text{d}$	AtmDep_Ni
Ni	diffusive waste flux Ni	$\text{gNi/m}^3/\text{d}$	Dfwast_Ni
Green	net primary production of Greens	$\text{gC/m}^3/\text{d}$	GroMrt_Gre
Green	mortality of Greens	$\text{gC/m}^3/\text{d}$	GroMrt_Gre
Green	correction flux Greens growth	$\text{gN/m}^3/\text{d}$	PPrLim
Green	dummy flux to access OXYMin	-	OXYMin
Green	sedimentation flux Greens	$\text{gC/m}^3/\text{d}$	Sed_Gre
Green	grazing of Greens	$\text{gC/m}^3/\text{d}$	CONSBL
Green	grazing of Greens by DEB Mussel	$\text{gC/m}^3/\text{d}$	DEBGRZ_M
Green	grazing of Greens by DEB Zooplankton	$\text{gC/m}^3/\text{d}$	DEBGRZ_Z
Green	grazing of Greens by DEB Grazer3	$\text{gC/m}^3/\text{d}$	DEBGRZ_G3
Green	grazing of Greens by DEB Grazer4	$\text{gC/m}^3/\text{d}$	DEBGRZ_G4
Green	grazing of Greens by DEB Grazer5	$\text{gC/m}^3/\text{d}$	DEBGRZ_G5
Diat	net primary production of Diatoms	$\text{gC/m}^3/\text{d}$	GroMrt_Dia
Diat	mortality of Diatoms	$\text{gC/m}^3/\text{d}$	GroMrt_Dia
Diat	correction flux Diatoms growth	$\text{gN/m}^3/\text{d}$	PPrLim
Diat	dummy flux to access OXYMin	-	OXYMin
Diat	sedimentation flux Diatoms	$\text{gC/m}^3/\text{d}$	SedDiat
Diat	grazing of Diatoms	$\text{gC/m}^3/\text{d}$	CONSBL
Diat	grazing of Diatoms by DEB Mussel	$\text{gC/m}^3/\text{d}$	DEBGRZ_M
Diat	grazing of Diatoms by DEB Zooplankton	$\text{gC/m}^3/\text{d}$	DEBGRZ_Z
Diat	grazing of Diatoms by DEB Grazer3	$\text{gC/m}^3/\text{d}$	DEBGRZ_G3
Diat	grazing of Diatoms by DEB Grazer4	$\text{gC/m}^3/\text{d}$	DEBGRZ_G4
Diat	grazing of Diatoms by DEB Grazer5	$\text{gC/m}^3/\text{d}$	DEBGRZ_G5
NO3	uptake of NO3 by algae growth	$\text{gN/m}^3/\text{d}$	BLOOM_P
NO3	dummy flux to access Compos	-	Compos
NO3	denitrification flux from the sediment	$\text{gN/m}^3/\text{d}$	DenSed_NO3
NO3	denitrification flux in the water column	$\text{gN/m}^3/\text{d}$	DenWat_NO3
NO3	nitrification flux	$\text{gN/m}^3/\text{d}$	Nitrif_NH4
NO3	uptake of NO3 by algae growth in layer S1	$\text{gN/m}^3/\text{d}$	GroMrt_DS1
NO3	mineralisation flux oxidised with nitrate	$\text{gC/m}^3/\text{d}$	CONSELAC
NO3	rate of iron oxidation with nitrate	$\text{gFe/m}^3/\text{d}$	IRONOX
NO3	atmospheric deposition flux NO3	$\text{gNO}_3/\text{m}^3/\text{d}$	AtmDep_NO3
NO3	diffusive waste flux NO3	$\text{gN/m}^3/\text{d}$	Dfwast_NO3
NO3	TEWOR production flux of NO3	$\text{gN/m}^3/\text{d}$	Prod_TEWOR
NO3	uptake VB01 through roots N pool 2	$\text{gN/m}^3/\text{d}$	VB01_Upt3D
NO3	uptake VB02 through roots N pool 2	$\text{gN/m}^3/\text{d}$	VB02_Upt3D
NO3	uptake VB03 through roots N pool 2	$\text{gN/m}^3/\text{d}$	VB03_Upt3D
NO3	uptake VB04 through roots N pool 2	$\text{gN/m}^3/\text{d}$	VB04_Upt3D
NO3	uptake VB05 through roots N pool 2	$\text{gN/m}^3/\text{d}$	VB05_Upt3D
NO3	uptake VB06 through roots N pool 2	$\text{gN/m}^3/\text{d}$	VB06_Upt3D
NO3	uptake VB07 through roots N pool 2	$\text{gN/m}^3/\text{d}$	VB07_Upt3D
NO3	uptake VB08 through roots N pool 2	$\text{gN/m}^3/\text{d}$	VB08_Upt3D
NO3	uptake VB09 through roots N pool 2	$\text{gN/m}^3/\text{d}$	VB09_Upt3D
NO3	NO3 uptake by EM01	$\text{gN/m}^3/\text{d}$	MacroPhyt1
NO3	NO3 uptake by SM01	$\text{gN/m}^3/\text{d}$	SM01_Upt3D
NO3	NO3 uptake by EM02	$\text{gN/m}^3/\text{d}$	MacroPhyt2
NO3	NO3 uptake by SM02	$\text{gN/m}^3/\text{d}$	SM02_Upt3D
NO3	NO3 uptake by EM03	$\text{gN/m}^3/\text{d}$	MacroPhyt3
NO3	NO3 uptake by SM03	$\text{gN/m}^3/\text{d}$	SM03_Upt3D

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Table 2.1 – continued from previous page

Substance	Description	Unit	Process
NO3	NO3 uptake by EM04	gN/m ³ /d	MacroPhyt4
NO3	NO3 uptake by SM04	gN/m ³ /d	SM04_Upt3D
NO3	NO3 uptake by EM05	gN/m ³ /d	MacroPhyt5
NO3	NO3 uptake by SM05	gN/m ³ /d	SM05_Upt3D
NH4	autolysis flux of nitrogen	gN/m ³ /d	BLOOM_P
NH4	NH4 uptake by algae growth	gN/m ³ /d	BLOOM_P
NH4	dummy flux to access Compos	-	Compos
NH4	nitrification flux	gN/m ³ /d	Nitrif_NH4
NH4	mineralisation flux DetNS1	gN/m ³ /d	BMS1_DetN
NH4	mineralisation flux DetNS2	gN/m ³ /d	BMS2_DetN
NH4	mineralisation flux OONS1	gN/m ³ /d	BMS1_OON
NH4	mineralisation flux OONS2	gN/m ³ /d	BMS2_OON
NH4	mineralization flux PON1 to NH4	gN/m ³ /d	DecFast
NH4	mineralization flux PON2 to NH4	gN/m ³ /d	DecMedium
NH4	mineralization flux PON3 to NH4	gN/m ³ /d	DecSlow
NH4	mineralization flux PON4 to NH4	gN/m ³ /d	DecRefr
NH4	mineralization flux DON to NH4	gN/m ³ /d	DecDOC
NH4	mineralisation flux PON5 to NH4	gN/m ³ /d	DecPOC5
NH4	NH4 uptake by algae growth in layer S1	gN/m ³ /d	GroMrt_DS1
NH4	NH4 uptake by algae growth from detritus	gN/m ³ /d	GroMrt_DS1
NH4	autolysis flux of NH4	gN/m ³ /d	NutRel_Alg
NH4	autolysis algae to NH4 in layer S1	gN/m ³ /d	NRAIg_S1
NH4	flux to dissolved nitrogen from grazing	gN/m ³ /d	CONSBL
NH4	atmospheric deposition flux NH4	gN/m ³ /d	AtmDep_NH4
NH4	diffusive waste flux NH4	gN/m ³ /d	Dfwast_NH4
NH4	dummy flux to access NH3free	-	NH3free
NH4	TEWOR production flux of NH4	gN/m ³ /d	Prod_TEWOR
NH4	uptake VB01 through roots N pool 1	gN/m ³ /d	VB01_Upt3D
NH4	uptake VB02 through roots N pool 1	gN/m ³ /d	VB02_Upt3D
NH4	uptake VB03 through roots N pool 1	gN/m ³ /d	VB03_Upt3D
NH4	uptake VB04 through roots N pool 1	gN/m ³ /d	VB04_Upt3D
NH4	uptake VB05 through roots N pool 1	gN/m ³ /d	VB05_Upt3D
NH4	uptake VB06 through roots N pool 1	gN/m ³ /d	VB06_Upt3D
NH4	uptake VB07 through roots N pool 1	gN/m ³ /d	VB07_Upt3D
NH4	uptake VB08 through roots N pool 1	gN/m ³ /d	VB08_Upt3D
NH4	uptake VB09 through roots N pool 1	gN/m ³ /d	VB09_Upt3D
NH4	NH4 uptake by EM01	gN/m ³ /d	MacroPhyt1
NH4	NH4 uptake by SM01	gN/m ³ /d	SM01_Upt3D
NH4	NH4 uptake by EM02	gN/m ³ /d	MacroPhyt2
NH4	NH4 uptake by SM02	gN/m ³ /d	SM02_Upt3D
NH4	NH4 uptake by EM03	gN/m ³ /d	MacroPhyt3
NH4	NH4 uptake by SM03	gN/m ³ /d	SM03_Upt3D
NH4	NH4 uptake by EM04	gN/m ³ /d	MacroPhyt4
NH4	NH4 uptake by SM04	gN/m ³ /d	SM04_Upt3D
NH4	NH4 uptake by EM05	gN/m ³ /d	MacroPhyt5
NH4	NH4 uptake by SM05	gN/m ³ /d	SM05_Upt3D
NH4	respiration flux of DEB Mussel	gN/m ³ /d	DEBGRZ_M
NH4	respiration flux DEB Zooplankton	gN/m ³ /d	DEBGRZ_Z
NH4	respiration flux of DEB Grazer3	gN/m ³ /d	DEBGRZ_G3
NH4	respiration flux of DEB Grazer4	gN/m ³ /d	DEBGRZ_G4
NH4	respiration flux of DEB Grazer5	gN/m ³ /d	DEBGRZ_G5
DetN	grazing of DetN by DEB Mussel	gC/m ³ /d	DEBGRZ_M
DetN	grazing of DetN by DEB Zooplankton	gC/m ³ /d	DEBGRZ_Z
DetN	grazing of DetN by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
DetN	grazing of DetN by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
DetN	grazing of DetN by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
PO4	autolysis flux of PO4	gP/m ³ /d	BLOOM_P
PO4	PO4 uptake by algae growth	gP/m ³ /d	BLOOM_P
PO4	dummy flux to access Compos	-	Compos
PO4	adsorption flux PO4 to AAP	gP/m ³ /d	AdsPO4AAP
PO4	mineralisation flux DetPS1	gP/m ³ /d	BMS1_DetP
PO4	mineralisation flux DetPS2	gP/m ³ /d	BMS2_DetP
PO4	mineralisation flux OOPS1	gP/m ³ /d	BMS1_OOP
PO4	mineralisation flux OOPS2	gP/m ³ /d	BMS2_OOP
PO4	desorption flux AAP layer S1	gP/m ³ /d	Deso_AAPS1
PO4	desorption flux AAP from layer S1	gP/m ³ /d	Deso_AAPS1
PO4	desorption flux AAP sediment S2	gP/m ³ /d	Deso_AAPS2
PO4	desorption flux AAP from layer S2	gP/m ³ /d	Deso_AAPS2

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Table 2.1 – continued from previous page

Substance	Description	Unit	Process
PO4	mineralization flux POP1 to PO4	gP/m ³ /d	DecFast
PO4	mineralization flux POP2 to PO4	gP/m ³ /d	DecMedium
PO4	mineralization flux POP3 to PO4	gP/m ³ /d	DecSlow
PO4	mineralization flux POP4 to PO4	gP/m ³ /d	DecRefr
PO4	mineralization flux DOP to PO4	gP/m ³ /d	DecDOC
PO4	mineralisation flux POP5 to PO4	gP/m ³ /d	DecPOC5
PO4	precipitation flux PO4 to vivianite	gP/m ³ /d	Vivianit
PO4	dissolution flux vivianite to PO4	gP/m ³ /d	Vivianit
PO4	PO4 uptake by algae growth in layer S1	gP/m ³ /d	GroMrt_DS1
PO4	PO4 uptake by algae growth from detritus	gP/m ³ /d	GroMrt_DS1
PO4	autolysis of PO4	gP/m ³ /d	NutRel_Alg
PO4	autolysis algae in layer S1 to PO4	gP/m ³ /d	NRAlg_S1
PO4	flux to dissolved phosphorus from grazing	gP/m ³ /d	CONSBL
PO4	atmospheric deposition flux PO4	gP/m ³ /d	AtmDep_PO4
PO4	diffusive waste flux PO4	gP/m ³ /d	Dfwast_PO4
PO4	precipitation flux PO4 to apatite	gP/m ³ /d	APATITE
PO4	dissolution flux apatite to PO4	gP/m ³ /d	APATITE
PO4	uptake VB01 through roots P pool 2	gP/m ³ /d	VB01_Upt3D
PO4	uptake VB02 through roots P pool 2	gP/m ³ /d	VB02_Upt3D
PO4	uptake VB03 through roots P pool 2	gP/m ³ /d	VB03_Upt3D
PO4	uptake VB04 through roots P pool 2	gP/m ³ /d	VB04_Upt3D
PO4	uptake VB05 through roots P pool 2	gP/m ³ /d	VB05_Upt3D
PO4	uptake VB06 through roots P pool 2	gP/m ³ /d	VB06_Upt3D
PO4	uptake VB07 through roots P pool 2	gP/m ³ /d	VB07_Upt3D
PO4	uptake VB08 through roots P pool 2	gP/m ³ /d	VB08_Upt3D
PO4	uptake VB09 through roots P pool 2	gP/m ³ /d	VB09_Upt3D
PO4	PO4 uptake by EM01	gP/m ³ /d	MacroPhyt1
PO4	PO4 uptake by SM01	gP/m ³ /d	SM01_Upt3D
PO4	PO4 uptake by EM02	gP/m ³ /d	MacroPhyt2
PO4	PO4 uptake by SM02	gP/m ³ /d	SM02_Upt3D
PO4	PO4 uptake by EM03	gP/m ³ /d	MacroPhyt3
PO4	PO4 uptake by SM03	gP/m ³ /d	SM03_Upt3D
PO4	PO4 uptake by EM04	gP/m ³ /d	MacroPhyt4
PO4	PO4 uptake by SM04	gP/m ³ /d	SM04_Upt3D
PO4	PO4 uptake by EM05	gP/m ³ /d	MacroPhyt5
PO4	PO4 uptake by SM05	gP/m ³ /d	SM05_Upt3D
PO4	respiration flux of DEB Mussel	gP/m ³ /d	DEBGRZ_M
PO4	respiration flux DEB Zooplankton	gP/m ³ /d	DEBGRZ_Z
PO4	respiration flux of DEB Grazer3	gP/m ³ /d	DEBGRZ_G3
PO4	respiration flux of DEB Grazer4	gP/m ³ /d	DEBGRZ_G4
PO4	respiration flux of DEB Grazer5	gP/m ³ /d	DEBGRZ_G5
AAP	dummy flux to access Compos	-	Compos
AAP	adsorption flux PO4 to AAP	gP/m ³ /d	AdsPO4AAP
AAP	sedimentation flux AAP towards S1	gP/m ³ /d	Sed_AAP
AAP	sedimentation flux AAP towards S2	gP/m ³ /d	Sed_AAP
AAP	resuspension flux AAP from layer S1	gP/m ³ /d	S12TraAAP
AAP	resuspension flux AAP from layer S1	gP/m ³ /d	S12TraAAP
AAP	uptake VB01 through roots P pool 1	gP/m ³ /d	VB01_Upt3D
AAP	uptake VB02 through roots P pool 1	gP/m ³ /d	VB02_Upt3D
AAP	uptake VB03 through roots P pool 1	gP/m ³ /d	VB03_Upt3D
AAP	uptake VB04 through roots P pool 1	gP/m ³ /d	VB04_Upt3D
AAP	uptake VB05 through roots P pool 1	gP/m ³ /d	VB05_Upt3D
AAP	uptake VB06 through roots P pool 1	gP/m ³ /d	VB06_Upt3D
AAP	uptake VB07 through roots P pool 1	gP/m ³ /d	VB07_Upt3D
AAP	uptake VB08 through roots P pool 1	gP/m ³ /d	VB08_Upt3D
AAP	uptake VB09 through roots P pool 1	gP/m ³ /d	VB09_Upt3D
DetP	grazing of DetP by DEB Mussel	gC/m ³ /d	DEBGRZ_M
DetP	grazing of DetP by DEB Zooplankton	gC/m ³ /d	DEBGRZ_Z
DetP	grazing of DetP by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
DetP	grazing of DetP by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
DetP	grazing of DetP by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
Si	autolysis flux of silicate	gSi/m ³ /d	BLOOM_P
Si	Si uptake by algae growth	gSi/m ³ /d	BLOOM_P
Si	dummy flux to access Compos	-	Compos
Si	mineralisation flux DetSiS1	gSi/m ³ /d	BMS1_DetSi
Si	mineralisation flux DetSiS2	gSi/m ³ /d	BMS2_DetSi
Si	mineralisation flux OOSiS1	gSi/m ³ /d	BMS1_OOSi
Si	mineralisation flux OOSiS2	gSi/m ³ /d	BMS2_OOSi

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Table 2.1 – continued from previous page

Substance	Description	Unit	Process
Si	dissolution flux Opal to Si	gSi/m ³ /d	DisSi
Si	Si uptake by algae growth in layer S1	gSi/m ³ /d	GroMrt_DS1
Si	Si uptake by algae growth from detritus	gSi/m ³ /d	GroMrt_DS1
Si	autolysis algae in layer S1 to Si	gSi/m ³ /d	NRAIg_S1
Si	flux to dissolved silicon from grazing	gSi/m ³ /d	CONSBL
Si	diffusive waste flux Si	gSi/m ³ /d	Dfwast_Si
DetSi	grazing of DetSi by DEB Mussel	gC/m ³ /d	DEBGRZ_M
DetSi	grazing of DetSi by DEB Zooplankton	gC/m ³ /d	DEBGRZ_Z
DetSi	grazing of DetSi by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
DetSi	grazing of DetSi by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
DetSi	grazing of DetSi by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
TColi	mortality flux TColi	MPN/m ³ /d	TColiMrt
EColi	mortality flux EColi	MPN/m ³ /d	EColiMrt
EColi	TEWOR production flux of EColi	MPN/m ³ /d	Prod_TEWOR
FColi	mortality flux FColi	MPN/m ³ /d	FColiMrt
EnCoc	mortality flux EnCoc	MPN/m ³ /d	EnCocMrt
153	volatilisation flux 153	g153/m ³ /d	Volat_153
153	overall loss flux 153 in water	g/m ³ /d	Los_WK_153
153	sedimentation flux 153	g153/m ³ /d	Sed_153
153	resuspension flux 153 from layer S1	g153/m ³ /d	S12Tra153
153	resuspension flux 153 from layer S2	g153/m ³ /d	S12Tra153
153	atmospheric deposition flux 153	g153/m ³ /d	AtmDep_153
153	diffusive waste flux 153	g153/m ³ /d	Dfwast_153
ATR	volatilisation flux Atrazine	gAtr/m ³ /d	Volat_Atr
ATR	overall loss flux Atrazine in water	g/m ³ /d	Los_WK_Atr
ATR	sedimentation flux Atrazine	gAtr/m ³ /d	Sed_Atr
ATR	resuspension flux Atr from layer S1	gAtr/m ³ /d	S12TraAtr
ATR	resuspension flux Atr from layer S2	gAtr/m ³ /d	S12TraAtr
ATR	atmospheric deposition flux Atrazine	gAtr/m ³ /d	AtmDep_Atr
ATR	diffusive waste flux Atrazine	gAtr/m ³ /d	Dfwast_Atr
BaP	volatilisation flux BaP	gBaP/m ³ /d	Volat_BaP
BaP	overall loss flux BaP in water	g/m ³ /d	Los_WK_BaP
BaP	sedimentation flux BaP	gBaP/m ³ /d	Sed_BaP
BaP	resuspension flux BaP from layer S1	gBaP/m ³ /d	S12TraBaP
BaP	resuspension flux BaP from layer S2	gBaP/m ³ /d	S12TraBaP
BaP	atmospheric deposition flux BaP	gBaP/m ³ /d	AtmDep_BaP
BaP	diffusive waste flux BaP	gBaP/m ³ /d	Dfwast_BaP
Flu	volatilisation flux Flu	gFlu/m ³ /d	Volat_Flu
Flu	overall loss flux Flu in water	g/m ³ /d	Los_WK_Flu
Flu	sedimentation flux Flu	gFlu/m ³ /d	Sed_Flu
Flu	resuspension flux Flu from layer S1	gFlu/m ³ /d	S12TraFlu
Flu	resuspension flux Flu from layer S2	gFlu/m ³ /d	S12TraFlu
Flu	atmospheric deposition flux Flu	gFlu/m ³ /d	AtmDep_Flu
Flu	diffusive waste flux Flu	gFlu/m ³ /d	Dfwast_Flu
Mef	volatilisation flux Mef	gMef/m ³ /d	Volat_Mef
Mef	overall loss flux Mef in water	g/m ³ /d	Los_WK_Mef
Mef	sedimentation flux Mef	gMef/m ³ /d	Sed_Mef
Mef	resuspension flux Mef from layer S1	gMef/m ³ /d	S12TraMef
Mef	resuspension flux Mef from layer S2	gMef/m ³ /d	S12TraMef
Mef	atmospheric deposition flux Mef	gMef/m ³ /d	AtmDep_Mef
Mef	diffusive waste flux Mef	gMef/m ³ /d	Dfwast_Mef
Diu	volatilisation flux Diu	gDiu/m ³ /d	Volat_Diu
Diu	overall loss flux Diu in water	g/m ³ /d	Los_WK_Diu
Diu	sedimentation flux Diu	gDiu/m ³ /d	Sed_Diu
Diu	resuspension flux Diu from layer S1	gDiu/m ³ /d	S12TraDiu
Diu	resuspension flux Diu from layer S2	gDiu/m ³ /d	S12TraDiu
Diu	atmospheric deposition flux Diu	gDiu/m ³ /d	AtmDep_Diu
Diu	diffusive waste flux Diu	gDiu/m ³ /d	Dfwast_Diu
HCH	volatilisation flux HCH	gHCH/m ³ /d	Volat_HCH
HCH	overall loss flux HCH in water	g/m ³ /d	Los_WK_HCH
HCH	sedimentation flux HCH	gHCH/m ³ /d	Sed_HCH
HCH	resuspension flux HCH from layer S1	gHCH/m ³ /d	S12TraHCH
HCH	resuspension flux HCH from layer S2	gHCH/m ³ /d	S12TraHCH
HCH	atmospheric deposition flux HCH	gHCH/m ³ /d	AtmDep_HCH
HCH	diffusive waste flux HCH	gHCH/m ³ /d	Dfwast_HCH
HCB	volatilisation flux HCB	gHCB/m ³ /d	Volat_HCB
HCB	overall loss flux HCB in water	g/m ³ /d	Los_WK_HCB
HCB	sedimentation flux HCB	gHCB/m ³ /d	Sed_HCB

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Table 2.1 – continued from previous page

Substance	Description	Unit	Process
HCb	resuspension flux HCb from layer S1	gHCb/m ³ /d	S12TraHCb
HCb	resuspension flux HCb from layer S2	gHCb/m ³ /d	S12TraHCb
HCb	atmospheric deposition flux HCb	gHCb/m ³ /d	AtmDep_HCb
HCb	diffusive waste flux HCb	gHCb/m ³ /d	Dfwast_HCb
dTR1	decay tracer from source 1	g/m ³ /d	Age1
dTR2	decay tracer from source 2	g/m ³ /d	Age2
dTR3	decay tracer from source 3	g/m ³ /d	Age3
dTR4	decay tracer from source 4	g/m ³ /d	Age4
dTR5	decay tracer from source 5	g/m ³ /d	Age5
TIC	dummy flux to access pH_simp	-	pH_carb
TIC	dummy flux to access pH_simp	-	pH_simp
TIC	dummy flux to access SpecCarb	-	SpecCarb
TIC	autolysis flux of carbon	gC/m ³ /d	BLOOM_P
TIC	uptake of carbon by algae growth	gC/m ³ /d	BLOOM_P
TIC	reaeration flux of CO2	gCO2/m ³ /d	RearCO2
TIC	mineralisation flux DetCS1	gC/m ³ /d	BMS1_DetC
TIC	SWITCH mineralisation flux DetC in layer S1	gC/m ³ /d	BMS1_DetC
TIC	mineralisation flux DetCS2	gC/m ³ /d	BMS2_DetC
TIC	SWITCH mineralisation flux DetC in layer S2	gC/m ³ /d	BMS2_DetC
TIC	mineralisation flux OOCs1	gC/m ³ /d	BMS1_OOC
TIC	SWITCH mineralisation flux OOC in layer S1	gC/m ³ /d	BMS1_OOC
TIC	mineralisation flux OOCs2	gC/m ³ /d	BMS2_OOC
TIC	SWITCH mineralisation flux OOC in layer S2	gC/m ³ /d	BMS2_OOC
TIC	min. flux POC5 to CO2 emersed	gC/m ³ /d	DecPOC5
TIC	min. flux POC5 to CO2 atmosphere	gC/m ³ /d	DecPOC5
TIC	net primary production of Greens	gC/m ³ /d	GroMrt_Gre
TIC	net primary production of Diatoms	gC/m ³ /d	GroMrt_Dia
TIC	net primary production of Diatoms in layer S1	gC/m ³ /d	GroMrt_DS1
TIC	correction flux Greens growth	gN/m ³ /d	PPrLim
TIC	correction flux Diatoms growth	gN/m ³ /d	PPrLim
TIC	mineralisation flux oxidised with DO	gC/m ³ /d	CONSELAC
TIC	mineralisation flux oxidised with nitrate	gC/m ³ /d	CONSELAC
TIC	mineralisation flux oxid. with iron	gC/m ³ /d	CONSELAC
TIC	mineralisation flux oxid. with sulphate	gC/m ³ /d	CONSELAC
TIC	min. flux conv. methanogenesis into CO2	gC/m ³ /d	CONSELAC
TIC	methane oxidation flux with DO	gC/m ³ /d	OXIDCH4
TIC	methane oxidation flux with sulphate	gC/m ³ /d	OXIDCH4
TIC	rate of ironII carbonate precipitation	gFe/m ³ /d	PRIRON
TIC	rate of ironII carbonate dissolution	gFe/m ³ /d	PRIRON
TIC	flux to dissolved carbon from grazing	gC/m ³ /d	CONSB
TIC	CO2 uptake by SM01	gC/m ³ /d	SM01_Upt3D
TIC	CO2 uptake by SM02	gC/m ³ /d	SM02_Upt3D
TIC	CO2 uptake by SM03	gC/m ³ /d	SM03_Upt3D
TIC	CO2 uptake by SM04	gC/m ³ /d	SM04_Upt3D
TIC	CO2 uptake by SM05	gC/m ³ /d	SM05_Upt3D
TIC	respiration flux of DEB Mussel	gC/m ³ /d	DEBGRZ_M
TIC	respiration flux DEB Zooplankton	gC/m ³ /d	DEBGRZ_Z
TIC	respiration flux of DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
TIC	respiration flux of DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
TIC	respiration flux of DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
H+	autolysis flux of nitrogen	gN/m ³ /d	BLOOM_P
H+	autolysis flux of PO4	gP/m ³ /d	BLOOM_P
H+	NH4 uptake by algae growth	gN/m ³ /d	BLOOM_P
H+	uptake of NO3 by algae growth	gN/m ³ /d	BLOOM_P
H+	PO4 uptake by algae growth	gP/m ³ /d	BLOOM_P
H+	denitrification flux in the water column	gN/m ³ /d	DenWat_NO3
H+	nitrification flux	gN/m ³ /d	Nitrif_NH4
H+	mineralisation flux DetNS1	gN/m ³ /d	BMS1_DetN
H+	SWITCH mineralisation flux DetN in layer S1	gN/m ³ /d	BMS1_DetN
H+	mineralisation flux DetNS2	gN/m ³ /d	BMS2_DetN
H+	SWITCH mineralisation flux DetN in layer S2	gN/m ³ /d	BMS2_DetN
H+	mineralisation flux DetPS1	gP/m ³ /d	BMS1_DetP
H+	SWITCH mineralisation flux DetP in layer S1	gN/m ³ /d	BMS1_DetP
H+	mineralisation flux DetPS2	gP/m ³ /d	BMS2_DetP
H+	SWITCH mineralisation flux DetP in layer S2	gN/m ³ /d	BMS2_DetP
H+	mineralisation flux OONS1	gN/m ³ /d	BMS1_OON
H+	SWITCH mineralisation flux OON in layer S1	gN/m ³ /d	BMS1_OON
H+	mineralisation flux OONS2	gN/m ³ /d	BMS2_OON

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Table 2.1 – continued from previous page

Substance	Description	Unit	Process
H+	SWITCH mineralisation flux OON in layer S2	gN/m ³ /d	BMS2_OON
H+	mineralisation flux OOPS1	gP/m ³ /d	BMS1_OOP
H+	SWITCH mineralisation flux OOP in layer S1	gP/m ³ /d	BMS1_OOP
H+	mineralisation flux OOPS2	gP/m ³ /d	BMS2_OOP
H+	SWITCH mineralisation flux OOP in layer S2	gP/m ³ /d	BMS2_OOP
H+	NH ₄ uptake by algae growth in layer S1	gN/m ³ /d	GroMrt_DS1
H+	uptake of NO ₃ by algae growth in layer S1	gN/m ³ /d	GroMrt_DS1
H+	PO ₄ uptake by algae growth in layer S1	gP/m ³ /d	GroMrt_DS1
H+	NH ₄ uptake by algae growth from detritus	gN/m ³ /d	GroMrt_DS1
H+	PO ₄ uptake by algae growth from detritus	gP/m ³ /d	GroMrt_DS1
H+	autolysis flux of NH ₄	gN/m ³ /d	NutRel_Alg
H+	autolysis of PO ₄	gP/m ³ /d	NutRel_Alg
H+	autolysis algae to NH ₄ in layer S1	gN/m ³ /d	NRAlg_S1
H+	autolysis algae in layer S1 to PO ₄	gP/m ³ /d	NRAlg_S1
H+	mineralisation flux oxidised with nitrate	gC/m ³ /d	CONSELAC
H+	methane oxidation flux with sulphate	gC/m ³ /d	OXIDCH4
H+	flux to dissolved nitrogen from grazing	gN/m ³ /d	CONSBL
H+	flux to dissolved phosphorus from grazing	gP/m ³ /d	CONSBL
H+	atmospheric deposition flux NO ₃	gNO ₃ /m ³ /d	AtmDep_NO3
H+	atmospheric deposition flux SO ₄	gS/m ³ /d	AtmDep_SO4
H+	respiration flux of DEB Mussel	gN/m ³ /d	DEBGRZ_M
H+	respiration flux of DEB Mussel	gP/m ³ /d	DEBGRZ_M
H+	respiration flux DEB Zooplankton	gN/m ³ /d	DEBGRZ_Z
H+	respiration flux DEB Zooplankton	gP/m ³ /d	DEBGRZ_Z
H+	respiration flux of DEB Grazer3	gN/m ³ /d	DEBGRZ_G3
H+	respiration flux of DEB Grazer3	gP/m ³ /d	DEBGRZ_G3
H+	respiration flux of DEB Grazer4	gN/m ³ /d	DEBGRZ_G4
H+	respiration flux of DEB Grazer4	gP/m ³ /d	DEBGRZ_G4
H+	respiration flux of DEB Grazer5	gN/m ³ /d	DEBGRZ_G5
H+	respiration flux of DEB Grazer5	gP/m ³ /d	DEBGRZ_G5
H ₂ O	autolysis flux of carbon	gC/m ³ /d	BLOOM_P
H ₂ O	uptake of carbon by algae growth	gC/m ³ /d	BLOOM_P
H ₂ O	uptake of NO ₃ by algae growth	gN/m ³ /d	BLOOM_P
H ₂ O	denitrification flux in the water column	gN/m ³ /d	DenWat_NO3
H ₂ O	nitrification flux	gN/m ³ /d	Nitrif_NH4
H ₂ O	mineralisation flux DetCS1	gC/m ³ /d	BMS1_DetC
H ₂ O	SWITCH mineralisation flux DetC in layer S1	gC/m ³ /d	BMS1_DetC
H ₂ O	mineralisation flux DetCS2	gC/m ³ /d	BMS2_DetC
H ₂ O	SWITCH mineralisation flux DetC in layer S2	gC/m ³ /d	BMS2_DetC
H ₂ O	mineralisation flux OOCs1	gC/m ³ /d	BMS1_OOC
H ₂ O	SWITCH mineralisation flux OOC in layer S1	gC/m ³ /d	BMS1_OOC
H ₂ O	mineralisation flux OOCs2	gC/m ³ /d	BMS2_OOC
H ₂ O	SWITCH mineralisation flux OOC in layer S2	gC/m ³ /d	BMS2_OOC
H ₂ O	min. flux POC5 to CO ₂ emersed	gC/m ³ /d	DecPOC5
H ₂ O	net primary production of Greens	gC/m ³ /d	GroMrt_Gre
H ₂ O	net primary production of Diatoms	gC/m ³ /d	GroMrt_Dia
H ₂ O	net primary production of Diatoms in layer S1	gC/m ³ /d	GroMrt_DS1
H ₂ O	uptake of NO ₃ by algae growth in layer S1	gN/m ³ /d	GroMrt_DS1
H ₂ O	correction flux Greens growth	gN/m ³ /d	PPrLim
H ₂ O	correction flux Diatoms growth	gN/m ³ /d	PPrLim
H ₂ O	mineralisation flux oxidised with DO	gC/m ³ /d	CONSELAC
H ₂ O	mineralisation flux oxidised with nitrate	gC/m ³ /d	CONSELAC
H ₂ O	mineralisation flux oxid. with sulphate	gC/m ³ /d	CONSELAC
H ₂ O	methane oxidation flux with DO	gC/m ³ /d	OXIDCH4
H ₂ O	methane oxidation flux with sulphate	gC/m ³ /d	OXIDCH4
CBOD5	decay flux of CBOD5	gO ₂ /m ³ /d	BODCOD
CBOD5	TEWOR decay flux of CBOD5	gO ₂ /m ³ /d	DBOD_TEWOR
CBOD5	sedimentation flux CBOD5	gO ₂ /m ³ /d	S_CBOD51
CBOD5	TEWOR production flux of CBOD5	gO ₂ /m ³ /d	Prod_TEWOR
CBOD5_2	decay flux of CBOD5_2	gO ₂ /m ³ /d	BODCOD
CBOD5_2	TEWOR decay flux of CBOD5_2	gO ₂ /m ³ /d	DBOD_TEWOR
CBOD5_2	sedimentation flux CBOD5_2	gO ₂ /m ³ /d	S_CBOD52
CBOD5_2	TEWOR production flux of CBOD5_2	gO ₂ /m ³ /d	Prod_TEWOR
CBOD5_3	TEWOR decay flux of CBOD5_3	gO ₂ /m ³ /d	DBOD_TEWOR
CBOD5_3	sedimentation flux CBOD5_3	gO ₂ /m ³ /d	S_CBOD53
CBOD5_3	TEWOR production flux of CBOD5_3	gO ₂ /m ³ /d	Prod_TEWOR
CBODu	decay flux of CBODu	gO ₂ /m ³ /d	BODCOD
CBODu	sedimentation flux CBODu	gO ₂ /m ³ /d	S_CBODu1

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Table 2.1 – continued from previous page

Substance	Description	Unit	Process
CBODu_2	decay flux of CBODu_2	gO2/m ³ /d	BODCOD
CBODu_2	sedimentation flux CBODu_2	gO2/m ³ /d	S_CBODu2
COD_Cr	decay flux of COD_Cr	gO2/m ³ /d	BODCOD
COD_Cr	sedimentation flux COD_Cr	gO2/m ³ /d	S_CODCr
COD_Cr	TEWOR production flux of COD_Cr	gO2/m ³ /d	Prod_TEWOR
COD_Mn	decay flux of COD_Mn	gO2/m ³ /d	BODCOD
COD_Mn	sedimentation flux COD_Mn	gO2/m ³ /d	S_CODMn
NBOD5	decay flux of NBOD5	gO2/m ³ /d	BODCOD
NBOD5	sedimentation flux NBOD5	gO2/m ³ /d	S_NBOD5
NBODu	decay flux of NBODu	gO2/m ³ /d	BODCOD
NBODu	sedimentation flux NBODu	gO2/m ³ /d	S_NBODu
POC1	production of DetC by mortality	gC/m ³ /d	BLOOM_P
POC1	uptake of DetC by heterotroph algae growth	gC/m ³ /d	BLOOM_P
POC1	dummy flux to access Compos	-	Compos
POC1	conversion flux POC1 to POC2	gC/m ³ /d	DecFast
POC1	conversion flux POC1 to DOC	gC/m ³ /d	DecFast
POC1	mineralization flux POC1 to CO2	gC/m ³ /d	DecFast
POC1	production of DetC by mortality phytoplankton	gC/m ³ /d	NutRel_Alg
POC1	mineralisation flux oxidised with DO	gC/m ³ /d	CONSELAC
POC1	sedimentation flux POC1	gC/m ³ /d	Sed_POC1
POC1	resuspension flux DetC from layer S1	gC/m ³ /d	S12TraDetC
POC1	resuspension flux DetC from layer S2	gC/m ³ /d	S12TraDetC
POC1	resuspension flux Diatoms from layer S1	gC/m ³ /d	S12TraDiat
POC1	resuspension flux Diatoms from layer S2	gC/m ³ /d	S12TraDiat
POC1	flux to GEM org. nutrients from grazing	gC/m ³ /d	CONSBL
POC1	dummy flux to access Secchi	-	Secchi
POC1	dMC2VB01P1	no unit	VB01_Mrt3W
POC1	dMC5VB01P1	no unit	VB01_Mrt3S
POC1	dMC2VB02P1	no unit	VB02_Mrt3W
POC1	dMC5VB02P1	no unit	VB02_Mrt3S
POC1	dMC2VB03P1	no unit	VB03_Mrt3W
POC1	dMC5VB03P1	no unit	VB03_Mrt3S
POC1	dMC2VB04P1	no unit	VB04_Mrt3W
POC1	dMC5VB04P1	no unit	VB04_Mrt3S
POC1	dMC2VB05P1	no unit	VB05_Mrt3W
POC1	dMC5VB05P1	no unit	VB05_Mrt3S
POC1	dMC2VB06P1	no unit	VB06_Mrt3W
POC1	dMC5VB06P1	no unit	VB06_Mrt3S
POC1	dMC2VB07P1	no unit	VB07_Mrt3W
POC1	dMC5VB07P1	no unit	VB07_Mrt3S
POC1	dMC2VB08P1	no unit	VB08_Mrt3W
POC1	dMC5VB08P1	no unit	VB08_Mrt3S
POC1	dMC2VB09P1	no unit	VB09_Mrt3W
POC1	dMC5VB09P1	no unit	VB09_Mrt3S
POC1	POC1 production macrophyt 1	gC/m ³ /d	MacroPhyt1
POC1	POC1 production macrophyt 2	gC/m ³ /d	MacroPhyt2
POC1	POC1 production macrophyt 3	gC/m ³ /d	MacroPhyt3
POC1	POC1 production macrophyt 4	gC/m ³ /d	MacroPhyt4
POC1	POC1 production macrophyt 5	gC/m ³ /d	MacroPhyt5
POC1	mortality flux of DEB Mussel	gC/m ³ /d	DEBGRZ_M
POC1	defecation flux of DEB Mussel	gC/m ³ /d	DEBGRZ_M
POC1	spawning flux of DEB Mussel to DetC	gC/m ³ /d	DEBGRZ_M
POC1	grazing of POC1 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
POC1	mortality flux DEB Zooplankton	gC/m ³ /d	DEBGRZ_Z
POC1	defecation flux DEB Zooplankton	gC/m ³ /d	DEBGRZ_Z
POC1	spawning flux DEB Zooplankton to DetC	gC/m ³ /d	DEBGRZ_Z
POC1	grazing of POC1 by DEB Zooplankton	gC/m ³ /d	DEBGRZ_Z
POC1	mortality flux of DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
POC1	defecation flux of DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
POC1	spawning flux of DEB Grazer3 to DetC	gC/m ³ /d	DEBGRZ_G3
POC1	grazing of POC1 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
POC1	mortality flux of DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
POC1	defecation flux of DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
POC1	spawning flux of DEB Grazer4 to DetC	gC/m ³ /d	DEBGRZ_G4
POC1	grazing of POC1 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
POC1	mortality flux of DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
POC1	defecation flux of DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
POC1	spawning flux of DEB Grazer5 to DetC	gC/m ³ /d	DEBGRZ_G5
POC1	grazing of POC1 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5

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Table 2.1 – continued from previous page

Substance	Description	Unit	Process
POC2	production of OOC by mortality	gC/m ³ /d	BLOOM_P
POC2	dummy flux to access Compos	-	Compos
POC2	conversion flux POC1 to POC2	gC/m ³ /d	DecFast
POC2	conversion flux POC2 to POC3	gC/m ³ /d	DecMedium
POC2	conversion flux POC2 to DOC	gC/m ³ /d	DecMedium
POC2	mineralization flux POC2 to CO2	gC/m ³ /d	DecMedium
POC2	production of OOC by mortality phytoplankton	gC/m ³ /d	NutRel_Alg
POC2	mineralisation flux oxidised with DO	gC/m ³ /d	CONSELAC
POC2	sedimentation flux POC2	gC/m ³ /d	Sed_POC2
POC2	resuspension flux OOC from layer S1	gC/m ³ /d	S12TraOOC
POC2	resuspension flux OOC from layer S2	gC/m ³ /d	S12TraOOC
POC2	dMC2VB01P2	no unit	VB01_Mrt3W
POC2	dMC5VB01P2	no unit	VB01_Mrt3S
POC2	dMC2VB02P2	no unit	VB02_Mrt3W
POC2	dMC5VB02P2	no unit	VB02_Mrt3S
POC2	dMC2VB03P2	no unit	VB03_Mrt3W
POC2	dMC5VB03P2	no unit	VB03_Mrt3S
POC2	dMC2VB04P2	no unit	VB04_Mrt3W
POC2	dMC5VB04P2	no unit	VB04_Mrt3S
POC2	dMC2VB05P2	no unit	VB05_Mrt3W
POC2	dMC5VB05P2	no unit	VB05_Mrt3S
POC2	dMC2VB06P2	no unit	VB06_Mrt3W
POC2	dMC5VB06P2	no unit	VB06_Mrt3S
POC2	dMC2VB07P2	no unit	VB07_Mrt3W
POC2	dMC5VB07P2	no unit	VB07_Mrt3S
POC2	dMC2VB08P2	no unit	VB08_Mrt3W
POC2	dMC5VB08P2	no unit	VB08_Mrt3S
POC2	dMC2VB09P2	no unit	VB09_Mrt3W
POC2	dMC5VB09P2	no unit	VB09_Mrt3S
POC2	POC2 production macrophyt 1	gC/m ³ /d	MacroPhyt1
POC2	POC2 production macrophyt 2	gC/m ³ /d	MacroPhyt2
POC2	POC2 production macrophyt 3	gC/m ³ /d	MacroPhyt3
POC2	POC2 production macrophyt 4	gC/m ³ /d	MacroPhyt4
POC2	POC2 production macrophyt 5	gC/m ³ /d	MacroPhyt5
POC3	dummy flux to access Compos	-	Compos
POC3	conversion flux POC2 to POC3	gC/m ³ /d	DecMedium
POC3	conversion flux POC3 to POC4	gC/m ³ /d	DecSlow
POC3	conversion flux POC3 to DOC	gC/m ³ /d	DecSlow
POC3	mineralization flux POC3 to CO2	gC/m ³ /d	DecSlow
POC3	mineralisation flux oxidised with DO	gC/m ³ /d	CONSELAC
POC3	sedimentation flux POC3	gC/m ³ /d	Sed_POC3
POC3	dMC2VB01P3	no unit	VB01_Mrt3W
POC3	dMC5VB01P3	no unit	VB01_Mrt3S
POC3	dMC2VB02P3	no unit	VB02_Mrt3W
POC3	dMC5VB02P3	no unit	VB02_Mrt3S
POC3	dMC2VB03P3	no unit	VB03_Mrt3W
POC3	dMC5VB03P3	no unit	VB03_Mrt3S
POC3	dMC2VB04P3	no unit	VB04_Mrt3W
POC3	dMC5VB04P3	no unit	VB04_Mrt3S
POC3	dMC2VB05P3	no unit	VB05_Mrt3W
POC3	dMC5VB05P3	no unit	VB05_Mrt3S
POC3	dMC2VB06P3	no unit	VB06_Mrt3W
POC3	dMC5VB06P3	no unit	VB06_Mrt3S
POC3	dMC2VB07P3	no unit	VB07_Mrt3W
POC3	dMC5VB07P3	no unit	VB07_Mrt3S
POC3	dMC2VB08P3	no unit	VB08_Mrt3W
POC3	dMC5VB08P3	no unit	VB08_Mrt3S
POC3	dMC2VB09P3	no unit	VB09_Mrt3W
POC3	dMC5VB09P3	no unit	VB09_Mrt3S
POC3	POC3 production macrophyt 1	gC/m ³ /d	MacroPhyt1
POC3	POC3 production macrophyt 2	gC/m ³ /d	MacroPhyt2
POC3	POC3 production macrophyt 3	gC/m ³ /d	MacroPhyt3
POC3	POC3 production macrophyt 4	gC/m ³ /d	MacroPhyt4
POC3	POC3 production macrophyt 5	gC/m ³ /d	MacroPhyt5
POC4	dummy flux to access Compos	-	Compos
POC4	conversion flux POC3 to POC4	gC/m ³ /d	DecSlow
POC4	mineralization flux POC4 to CO2	gC/m ³ /d	DecRefr
POC4	conversion flux POC5 to POC4	gC/m ³ /d	DecPOC5
POC4	mineralisation flux oxidised with DO	gC/m ³ /d	CONSELAC

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Table 2.1 – continued from previous page

Substance	Description	Unit	Process
POC4	sedimentation flux POC4	gC/m ³ /d	Sed_POC4
DOC	dummy flux to access Compos	-	Compos
DOC	conversion flux POC1 to DOC	gC/m ³ /d	DecFast
DOC	conversion flux POC2 to DOC	gC/m ³ /d	DecMedium
DOC	conversion flux POC3 to DOC	gC/m ³ /d	DecSlow
DOC	mineralization flux DOC to CO2	gC/m ³ /d	DecDOC
DOC	conversion flux POC5 to DOC	gC/m ³ /d	DecPOC5
PON1	production of DetN by mortality	gN/m ³ /d	BLOOM_P
PON1	uptake of DetN by heterotroph algae growth	gN/m ³ /d	BLOOM_P
PON1	dummy flux to access Compos	-	Compos
PON1	conversion flux PON1 to PON2	gN/m ³ /d	DecFast
PON1	conversion flux PON1 to DON	gN/m ³ /d	DecFast
PON1	mineralization flux PON1 to NH4	gN/m ³ /d	DecFast
PON1	production of DetN by mortality phytoplankton	gN/m ³ /d	NutRel_Alg
PON1	sedimentation flux PON1	gN/m ³ /d	SedNPOC1
PON1	resuspension flux DetN from layer S1	gN/m ³ /d	S12TraDetN
PON1	resuspension flux DetN from layer S2	gN/m ³ /d	S12TraDetN
PON1	resuspension flux PON1 from layer S1	gN/m ³ /d	ResN_DiaS1
PON1	resuspension flux PON1 from layer S2	gN/m ³ /d	ResN_DiaS2
PON1	flux to GEM org. nutrients from grazing	gN/m ³ /d	CONSBL
PON1	TEWOR production flux of Org-N	gN/m ³ /d	Prod_TEWOR
PON1	dMN2VB01P1	no unit	VB01_Mrt3W
PON1	dMN5VB01P1	no unit	VB01_Mrt3S
PON1	dMN2VB02P1	no unit	VB02_Mrt3W
PON1	dMN5VB02P1	no unit	VB02_Mrt3S
PON1	dMN2VB03P1	no unit	VB03_Mrt3W
PON1	dMN5VB03P1	no unit	VB03_Mrt3S
PON1	dMN2VB04P1	no unit	VB04_Mrt3W
PON1	dMN5VB04P1	no unit	VB04_Mrt3S
PON1	dMN2VB05P1	no unit	VB05_Mrt3W
PON1	dMN5VB05P1	no unit	VB05_Mrt3S
PON1	dMN2VB06P1	no unit	VB06_Mrt3W
PON1	dMN5VB06P1	no unit	VB06_Mrt3S
PON1	dMN2VB07P1	no unit	VB07_Mrt3W
PON1	dMN5VB07P1	no unit	VB07_Mrt3S
PON1	dMN2VB08P1	no unit	VB08_Mrt3W
PON1	dMN5VB08P1	no unit	VB08_Mrt3S
PON1	dMN2VB09P1	no unit	VB09_Mrt3W
PON1	dMN5VB09P1	no unit	VB09_Mrt3S
PON1	PON1 production macrophyt 1	gN/m ³ /d	MacroPhyt1
PON1	PON1 production macrophyt 2	gN/m ³ /d	MacroPhyt2
PON1	PON1 production macrophyt 3	gN/m ³ /d	MacroPhyt3
PON1	PON1 production macrophyt 4	gN/m ³ /d	MacroPhyt4
PON1	PON1 production macrophyt 5	gN/m ³ /d	MacroPhyt5
PON1	mortality flux of DEB Mussel	gN/m ³ /d	DEBGRZ_M
PON1	defecation flux N of DEB Mussel	gN/m ³ /d	DEBGRZ_M
PON1	spawning flux of DEB mussel to DetN	gN/m ³ /d	DEBGRZ_M
PON1	grazing of PON by DEB Mussel	gC/m ³ /d	DEBGRZ_M
PON1	mortality flux DEB Zooplankton	gN/m ³ /d	DEBGRZ_Z
PON1	defecation flux N DEB Zooplankton	gN/m ³ /d	DEBGRZ_Z
PON1	spawning flux DEB Zooplankton to DetN	gN/m ³ /d	DEBGRZ_Z
PON1	grazing of PON by DEB Zooplankton	gC/m ³ /d	DEBGRZ_Z
PON1	mortality flux of DEB Grazer3	gN/m ³ /d	DEBGRZ_G3
PON1	defecation flux N of DEB Grazer3	gN/m ³ /d	DEBGRZ_G3
PON1	spawning flux of DEB Grazer3 to DetN	gN/m ³ /d	DEBGRZ_G3
PON1	grazing of PON by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
PON1	mortality flux of DEB Grazer4	gN/m ³ /d	DEBGRZ_G4
PON1	defecation flux N of DEB Grazer4	gN/m ³ /d	DEBGRZ_G4
PON1	spawning flux of DEB Grazer4 to DetN	gN/m ³ /d	DEBGRZ_G4
PON1	grazing of PON by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
PON1	mortality flux of DEB Grazer5	gN/m ³ /d	DEBGRZ_G5
PON1	defecation flux N of DEB Grazer5	gN/m ³ /d	DEBGRZ_G5
PON1	spawning flux of DEB Grazer5 to DetN	gN/m ³ /d	DEBGRZ_G5
PON1	grazing of PON by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
PON2	production of OON by mortality	gN/m ³ /d	BLOOM_P
PON2	dummy flux to access Compos	-	Compos
PON2	conversion flux PON1 to PON2	gN/m ³ /d	DecFast
PON2	conversion flux PON2 to PON3	gN/m ³ /d	DecMedium
PON2	conversion flux PON2 to DON	gN/m ³ /d	DecMedium

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Table 2.1 – continued from previous page

Substance	Description	Unit	Process
PON2	mineralization flux PON2 to NH ₄	gN/m ³ /d	DecMedium
PON2	production of OON by mortality phytoplankton	gN/m ³ /d	NutRel_Al
PON2	sedimentation flux PON2	gN/m ³ /d	SedNPOC2
PON2	resuspension flux OON from layer S1	gN/m ³ /d	S12TraOON
PON2	resuspension flux OON from layer S1	gN/m ³ /d	S12TraOON
PON2	TEWOR production flux of OON	gN/m ³ /d	Prod_TEWOR
PON2	dMN2VB01P2	no unit	VB01_Mrt3W
PON2	dMN5VB01P2	no unit	VB01_Mrt3S
PON2	dMN2VB02P2	no unit	VB02_Mrt3W
PON2	dMN5VB02P2	no unit	VB02_Mrt3S
PON2	dMN2VB03P2	no unit	VB03_Mrt3W
PON2	dMN5VB03P2	no unit	VB03_Mrt3S
PON2	dMN2VB04P2	no unit	VB04_Mrt3W
PON2	dMN5VB04P2	no unit	VB04_Mrt3S
PON2	dMN2VB05P2	no unit	VB05_Mrt3W
PON2	dMN5VB05P2	no unit	VB05_Mrt3S
PON2	dMN2VB06P2	no unit	VB06_Mrt3W
PON2	dMN5VB06P2	no unit	VB06_Mrt3S
PON2	dMN2VB07P2	no unit	VB07_Mrt3W
PON2	dMN5VB07P2	no unit	VB07_Mrt3S
PON2	dMN2VB08P2	no unit	VB08_Mrt3W
PON2	dMN5VB08P2	no unit	VB08_Mrt3S
PON2	dMN2VB09P2	no unit	VB09_Mrt3W
PON2	dMN5VB09P2	no unit	VB09_Mrt3S
PON2	PON2 production macrophyt 1	gN/m ³ /d	MacroPhyt1
PON2	PON2 production macrophyt 2	gN/m ³ /d	MacroPhyt2
PON2	PON2 production macrophyt 3	gN/m ³ /d	MacroPhyt3
PON2	PON2 production macrophyt 4	gN/m ³ /d	MacroPhyt4
PON2	PON2 production macrophyt 5	gN/m ³ /d	MacroPhyt5
PON3	dummy flux to access Compos	-	Compos
PON3	conversion flux PON2 to PON3	gN/m ³ /d	DecMedium
PON3	conversion flux PON3 to PON4	gN/m ³ /d	DecSlow
PON3	conversion flux PON3 to DON	gN/m ³ /d	DecSlow
PON3	mineralization flux PON3 to NH ₄	gN/m ³ /d	DecSlow
PON3	sedimentation flux PON3	gN/m ³ /d	SedNPOC3
PON3	dMN2VB01P3	no unit	VB01_Mrt3W
PON3	dMN5VB01P3	no unit	VB01_Mrt3S
PON3	dMN2VB02P3	no unit	VB02_Mrt3W
PON3	dMN5VB02P3	no unit	VB02_Mrt3S
PON3	dMN2VB03P3	no unit	VB03_Mrt3W
PON3	dMN5VB03P3	no unit	VB03_Mrt3S
PON3	dMN2VB04P3	no unit	VB04_Mrt3W
PON3	dMN5VB04P3	no unit	VB04_Mrt3S
PON3	dMN2VB05P3	no unit	VB05_Mrt3W
PON3	dMN5VB05P3	no unit	VB05_Mrt3S
PON3	dMN2VB06P3	no unit	VB06_Mrt3W
PON3	dMN5VB06P3	no unit	VB06_Mrt3S
PON3	dMN2VB07P3	no unit	VB07_Mrt3W
PON3	dMN5VB07P3	no unit	VB07_Mrt3S
PON3	dMN2VB08P3	no unit	VB08_Mrt3W
PON3	dMN5VB08P3	no unit	VB08_Mrt3S
PON3	dMN2VB09P3	no unit	VB09_Mrt3W
PON3	dMN5VB09P3	no unit	VB09_Mrt3S
PON3	PON3 production macrophyt 1	gN/m ³ /d	MacroPhyt1
PON3	PON3 production macrophyt 2	gN/m ³ /d	MacroPhyt2
PON3	PON3 production macrophyt 3	gN/m ³ /d	MacroPhyt3
PON3	PON3 production macrophyt 4	gN/m ³ /d	MacroPhyt4
PON3	PON3 production macrophyt 5	gN/m ³ /d	MacroPhyt5
PON4	dummy flux to access Compos	-	Compos
PON4	conversion flux PON3 to PON4	gN/m ³ /d	DecSlow
PON4	mineralization flux PON4 to NH ₄	gN/m ³ /d	DecRefr
PON4	conversion flux PON5 to PON4	gN/m ³ /d	DecPOC5
PON4	sedimentation flux PON4	gN/m ³ /d	SedNPOC4
DON	dummy flux to access Compos	-	Compos
DON	conversion flux PON1 to DON	gN/m ³ /d	DecFast
DON	conversion flux PON2 to DON	gN/m ³ /d	DecMedium
DON	conversion flux PON3 to DON	gN/m ³ /d	DecSlow
DON	mineralization flux DON to NH ₄	gN/m ³ /d	DecDOC
DON	conversion flux PON5 to DON	gN/m ³ /d	DecPOC5

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Table 2.1 – continued from previous page

Substance	Description	Unit	Process
POP1	production of DetP by mortality	gP/m ³ /d	BLOOM_P
POP1	uptake of DetP by heterotroph algae growth	gP/m ³ /d	BLOOM_P
POP1	dummy flux to access Compos	-	Compos
POP1	conversion flux POP1 to POP2	gP/m ³ /d	DecFast
POP1	conversion flux POP1 to DOP	gP/m ³ /d	DecFast
POP1	mineralization flux POP1 to PO4	gP/m ³ /d	DecFast
POP1	production of DetP by mortality phytoplankton	gP/m ³ /d	NutRel_Alg
POP1	sedimentation flux POP1	gP/m ³ /d	SedNPOC1
POP1	resuspension flux DetP from layer S1	gP/m ³ /d	S12TraDetP
POP1	resuspension flux DetP from layer S2	gP/m ³ /d	S12TraDetP
POP1	resuspension flux POP1 from layer S1	gP/m ³ /d	ResN_DiaS1
POP1	resuspension flux POP1 from layer S2	gP/m ³ /d	ResN_DiaS2
POP1	flux to GEM org. nutrients from grazing	gP/m ³ /d	CONSBL
POP1	dMP2VB01P1	no unit	VB01_Mrt3W
POP1	dMP5VB01P1	no unit	VB01_Mrt3S
POP1	dMP2VB02P1	no unit	VB02_Mrt3W
POP1	dMP5VB02P1	no unit	VB02_Mrt3S
POP1	dMP2VB03P1	no unit	VB03_Mrt3W
POP1	dMP5VB03P1	no unit	VB03_Mrt3S
POP1	dMP2VB04P1	no unit	VB04_Mrt3W
POP1	dMP5VB04P1	no unit	VB04_Mrt3S
POP1	dMP2VB05P1	no unit	VB05_Mrt3W
POP1	dMP5VB05P1	no unit	VB05_Mrt3S
POP1	dMP2VB06P1	no unit	VB06_Mrt3W
POP1	dMP5VB06P1	no unit	VB06_Mrt3S
POP1	dMP2VB07P1	no unit	VB07_Mrt3W
POP1	dMP5VB07P1	no unit	VB07_Mrt3S
POP1	dMP2VB08P1	no unit	VB08_Mrt3W
POP1	dMP5VB08P1	no unit	VB08_Mrt3S
POP1	dMP2VB09P1	no unit	VB09_Mrt3W
POP1	dMP5VB09P1	no unit	VB09_Mrt3S
POP1	POP1 production macrophyt 1	gP/m ³ /d	MacroPhyt1
POP1	POP1 production macrophyt 2	gP/m ³ /d	MacroPhyt2
POP1	POP1 production macrophyt 3	gP/m ³ /d	MacroPhyt3
POP1	POP1 production macrophyt 4	gP/m ³ /d	MacroPhyt4
POP1	POP1 production macrophyt 5	gP/m ³ /d	MacroPhyt5
POP1	mortality flux of DEB Mussel	gP/m ³ /d	DEBGRZ_M
POP1	defecation flux P of DEB Mussel	gP/m ³ /d	DEBGRZ_M
POP1	spawning flux of DEB Mussel to DetP	gP/m ³ /d	DEBGRZ_M
POP1	grazing of POP by DEB Mussel	gC/m ³ /d	DEBGRZ_M
POP1	mortality flux DEB Zooplankton	gP/m ³ /d	DEBGRZ_Z
POP1	defecation flux P DEB Zooplankton	gP/m ³ /d	DEBGRZ_Z
POP1	spawning flux DEB Zooplankton to DetP	gP/m ³ /d	DEBGRZ_Z
POP1	grazing of POP by DEB Zooplankton	gC/m ³ /d	DEBGRZ_Z
POP1	mortality flux of DEB Grazer3	gP/m ³ /d	DEBGRZ_G3
POP1	defecation flux P of DEB Grazer3	gP/m ³ /d	DEBGRZ_G3
POP1	spawning flux of DEB Grazer3 to DetP	gP/m ³ /d	DEBGRZ_G3
POP1	grazing of POP by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
POP1	mortality flux of DEB Grazer4	gP/m ³ /d	DEBGRZ_G4
POP1	defecation flux P of DEB Grazer4	gP/m ³ /d	DEBGRZ_G4
POP1	spawning flux of DEB Grazer4 to DetP	gP/m ³ /d	DEBGRZ_G4
POP1	grazing of POP by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
POP1	mortality flux of DEB Grazer5	gP/m ³ /d	DEBGRZ_G5
POP1	defecation flux P of DEB Grazer5	gP/m ³ /d	DEBGRZ_G5
POP1	spawning flux of DEB Grazer5 to DetP	gP/m ³ /d	DEBGRZ_G5
POP1	grazing of POP by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
POP2	production of OOP by mortality	gP/m ³ /d	BLOOM_P
POP2	dummy flux to access Compos	-	Compos
POP2	conversion flux POP1 to POP2	gP/m ³ /d	DecFast
POP2	conversion flux POP2 to POP3	gP/m ³ /d	DecMedium
POP2	conversion flux POP2 to DOP	gP/m ³ /d	DecMedium
POP2	mineralization flux POP2 to PO4	gP/m ³ /d	DecMedium
POP2	production of OOP by mortality phytoplankton	gP/m ³ /d	NutRel_Alg
POP2	sedimentation flux POP2	gP/m ³ /d	SedNPOC2
POP2	resuspension flux OOP from layer S1	gP/m ³ /d	S12TraOOP
POP2	resuspension flux OOP from layer S1	gP/m ³ /d	S12TraOOP
POP2	dMP2VB01P2	no unit	VB01_Mrt3W
POP2	dMP5VB01P2	no unit	VB01_Mrt3S
POP2	dMP2VB02P2	no unit	VB02_Mrt3W

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Table 2.1 – continued from previous page

Substance	Description	Unit	Process
POP2	dMP5VB02P2	no unit	VB02_Mrt3S
POP2	dMP2VB03P2	no unit	VB03_Mrt3W
POP2	dMP5VB03P2	no unit	VB03_Mrt3S
POP2	dMP2VB04P2	no unit	VB04_Mrt3W
POP2	dMP5VB04P2	no unit	VB04_Mrt3S
POP2	dMP2VB05P2	no unit	VB05_Mrt3W
POP2	dMP5VB05P2	no unit	VB05_Mrt3S
POP2	dMP2VB06P2	no unit	VB06_Mrt3W
POP2	dMP5VB06P2	no unit	VB06_Mrt3S
POP2	dMP2VB07P2	no unit	VB07_Mrt3W
POP2	dMP5VB07P2	no unit	VB07_Mrt3S
POP2	dMP2VB08P2	no unit	VB08_Mrt3W
POP2	dMP5VB08P2	no unit	VB08_Mrt3S
POP2	dMP2VB09P2	no unit	VB09_Mrt3W
POP2	dMP5VB09P2	no unit	VB09_Mrt3S
POP2	POP2 production macrophyt 1	gP/m ³ /d	MacroPhyt1
POP2	POP2 production macrophyt 2	gP/m ³ /d	MacroPhyt2
POP2	POP2 production macrophyt 3	gP/m ³ /d	MacroPhyt3
POP2	POP2 production macrophyt 4	gP/m ³ /d	MacroPhyt4
POP2	POP2 production macrophyt 5	gP/m ³ /d	MacroPhyt5
POP3	dummy flux to access Compos	-	Compos
POP3	conversion flux POP2 to POP3	gP/m ³ /d	DecMedium
POP3	conversion flux POP3 to POP4	gP/m ³ /d	DecSlow
POP3	conversion flux POP3 to DOP	gP/m ³ /d	DecSlow
POP3	mineralization flux POP3 to PO4	gP/m ³ /d	DecSlow
POP3	sedimentation flux POP3	gP/m ³ /d	SedNPOC3
POP3	dMP2VB01P3	no unit	VB01_Mrt3W
POP3	dMP5VB01P3	no unit	VB01_Mrt3S
POP3	dMP2VB02P3	no unit	VB02_Mrt3W
POP3	dMP5VB02P3	no unit	VB02_Mrt3S
POP3	dMP2VB03P3	no unit	VB03_Mrt3W
POP3	dMP5VB03P3	no unit	VB03_Mrt3S
POP3	dMP2VB04P3	no unit	VB04_Mrt3W
POP3	dMP5VB04P3	no unit	VB04_Mrt3S
POP3	dMP2VB05P3	no unit	VB05_Mrt3W
POP3	dMP5VB05P3	no unit	VB05_Mrt3S
POP3	dMP2VB06P3	no unit	VB06_Mrt3W
POP3	dMP5VB06P3	no unit	VB06_Mrt3S
POP3	dMP2VB07P3	no unit	VB07_Mrt3W
POP3	dMP5VB07P3	no unit	VB07_Mrt3S
POP3	dMP2VB08P3	no unit	VB08_Mrt3W
POP3	dMP5VB08P3	no unit	VB08_Mrt3S
POP3	dMP2VB09P3	no unit	VB09_Mrt3W
POP3	dMP5VB09P3	no unit	VB09_Mrt3S
POP3	POP3 production macrophyt 1	gP/m ³ /d	MacroPhyt1
POP3	POP3 production macrophyt 2	gP/m ³ /d	MacroPhyt2
POP3	POP3 production macrophyt 3	gP/m ³ /d	MacroPhyt3
POP3	POP3 production macrophyt 4	gP/m ³ /d	MacroPhyt4
POP3	POP3 production macrophyt 5	gP/m ³ /d	MacroPhyt5
POP4	dummy flux to access Compos	-	Compos
POP4	conversion flux POP3 to POP4	gP/m ³ /d	DecSlow
POP4	mineralization flux POP4 to PO4	gP/m ³ /d	DecRefr
POP4	conversion flux POP5 to POP4	gP/m ³ /d	DecPOC5
POP4	sedimentation flux POP4	gP/m ³ /d	SedNPOC4
DOP	dummy flux to access Compos	-	Compos
DOP	conversion flux POP1 to DOP	gP/m ³ /d	DecFast
DOP	conversion flux POP2 to DOP	gP/m ³ /d	DecMedium
DOP	conversion flux POP3 to DOP	gP/m ³ /d	DecSlow
DOP	mineralization flux DOP to PO4	gP/m ³ /d	DecDOC
DOP	conversion flux POP5 to DOP	gP/m ³ /d	DecPOC5
POS1	production of DetC by mortality	gC/m ³ /d	BLOOM_P
POS1	dummy flux to access Compos	-	Compos
POS1	conversion flux POS1 to POS2	gS/m ³ /d	DecFast
POS1	conversion flux POS1 to DOS	gS/m ³ /d	DecFast
POS1	mineralization flux POS1 to SUD	gS/m ³ /d	DecFast
POS1	sedimentation flux POS1	gP/m ³ /d	SedNPOC1
POS1	dMS2VB01P1	no unit	VB01_Mrt3W
POS1	dMS5VB01P1	no unit	VB01_Mrt3S
POS1	dMS2VB02P1	no unit	VB02_Mrt3W

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Table 2.1 – continued from previous page

Substance	Description	Unit	Process
POS1	dMS5VB02P1	no unit	VB02_Mrt3S
POS1	dMS2VB03P1	no unit	VB03_Mrt3W
POS1	dMS5VB03P1	no unit	VB03_Mrt3S
POS1	dMS2VB04P1	no unit	VB04_Mrt3W
POS1	dMS5VB04P1	no unit	VB04_Mrt3S
POS1	dMS2VB05P1	no unit	VB05_Mrt3W
POS1	dMS5VB05P1	no unit	VB05_Mrt3S
POS1	dMS2VB06P1	no unit	VB06_Mrt3W
POS1	dMS5VB06P1	no unit	VB06_Mrt3S
POS1	dMS2VB07P1	no unit	VB07_Mrt3W
POS1	dMS5VB07P1	no unit	VB07_Mrt3S
POS1	dMS2VB08P1	no unit	VB08_Mrt3W
POS1	dMS5VB08P1	no unit	VB08_Mrt3S
POS1	dMS2VB09P1	no unit	VB09_Mrt3W
POS1	dMS5VB09P1	no unit	VB09_Mrt3S
POS2	production of OOC by mortality	gC/m ³ /d	BLOOM_P
POS2	dummy flux to access Compos	-	Compos
POS2	conversion flux POS1 to POS2	gS/m ³ /d	DecFast
POS2	conversion flux POS2 to POS3	gS/m ³ /d	DecMedium
POS2	conversion flux POS2 to DOS	gS/m ³ /d	DecMedium
POS2	mineralization flux POS2 to SUD	gS/m ³ /d	DecMedium
POS2	sedimentation flux POS2	gP/m ³ /d	SedNPOC2
POS2	dMS2VB01P2	no unit	VB01_Mrt3W
POS2	dMS5VB01P2	no unit	VB01_Mrt3S
POS2	dMS2VB02P2	no unit	VB02_Mrt3W
POS2	dMS5VB02P2	no unit	VB02_Mrt3S
POS2	dMS2VB03P2	no unit	VB03_Mrt3W
POS2	dMS5VB03P2	no unit	VB03_Mrt3S
POS2	dMS2VB04P2	no unit	VB04_Mrt3W
POS2	dMS5VB04P2	no unit	VB04_Mrt3S
POS2	dMS2VB05P2	no unit	VB05_Mrt3W
POS2	dMS5VB05P2	no unit	VB05_Mrt3S
POS2	dMS2VB06P2	no unit	VB06_Mrt3W
POS2	dMS5VB06P2	no unit	VB06_Mrt3S
POS2	dMS2VB07P2	no unit	VB07_Mrt3W
POS2	dMS5VB07P2	no unit	VB07_Mrt3S
POS2	dMS2VB08P2	no unit	VB08_Mrt3W
POS2	dMS5VB08P2	no unit	VB08_Mrt3S
POS2	dMS2VB09P2	no unit	VB09_Mrt3W
POS2	dMS5VB09P2	no unit	VB09_Mrt3S
POS3	dummy flux to access Compos	-	Compos
POS3	conversion flux POS2 to POS3	gS/m ³ /d	DecMedium
POS3	conversion flux POS3 to POS4	gS/m ³ /d	DecSlow
POS3	conversion flux POS3 to DOS	gS/m ³ /d	DecSlow
POS3	mineralization flux POS3 to SUD	gS/m ³ /d	DecSlow
POS3	sedimentation flux POS3	gP/m ³ /d	SedNPOC3
POS3	dMS2VB01P3	no unit	VB01_Mrt3W
POS3	dMS5VB01P3	no unit	VB01_Mrt3S
POS3	dMS2VB02P3	no unit	VB02_Mrt3W
POS3	dMS5VB02P3	no unit	VB02_Mrt3S
POS3	dMS2VB03P3	no unit	VB03_Mrt3W
POS3	dMS5VB03P3	no unit	VB03_Mrt3S
POS3	dMS2VB04P3	no unit	VB04_Mrt3W
POS3	dMS5VB04P3	no unit	VB04_Mrt3S
POS3	dMS2VB05P3	no unit	VB05_Mrt3W
POS3	dMS5VB05P3	no unit	VB05_Mrt3S
POS3	dMS2VB06P3	no unit	VB06_Mrt3W
POS3	dMS5VB06P3	no unit	VB06_Mrt3S
POS3	dMS2VB07P3	no unit	VB07_Mrt3W
POS3	dMS5VB07P3	no unit	VB07_Mrt3S
POS3	dMS2VB08P3	no unit	VB08_Mrt3W
POS3	dMS5VB08P3	no unit	VB08_Mrt3S
POS3	dMS2VB09P3	no unit	VB09_Mrt3W
POS3	dMS5VB09P3	no unit	VB09_Mrt3S
POS4	dummy flux to access Compos	-	Compos
POS4	conversion flux POS3 to POS4	gS/m ³ /d	DecSlow
POS4	mineralization flux POS4 to SUD	gS/m ³ /d	DecRefr
POS4	conversion flux POS5 to POS4	gS/m ³ /d	DecPOC5
POS4	sedimentation flux POS4	gP/m ³ /d	SedNPOC4
DOS	dummy flux to access Compos	-	Compos

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Table 2.1 – continued from previous page

Substance	Description	Unit	Process
DOS	conversion flux POS1 to DOS	gS/m ³ /d	DecFast
DOS	conversion flux POS2 to DOS	gS/m ³ /d	DecMedium
DOS	conversion flux POS3 to DOS	gS/m ³ /d	DecSlow
DOS	mineralization flux DOS to SUD	gS/m ³ /d	DecDOC
DOS	conversion flux POS5 to DOS	gS/m ³ /d	DecPOC5
Opal	production of DetSi by mortality	gSi/m ³ /d	BLOOM_P
Opal	production of OOSi by mortality	gSi/m ³ /d	BLOOM_P
Opal	dummy flux to access Compos	-	Compos
Opal	dissolution flux Opal to Si	gSi/m ³ /d	DisSi
Opal	production of DetSi by mortality phytoplankton	gSi/m ³ /d	NutRel_Alg
Opal	production of OOSi by mortality phytoplankton	gSi/m ³ /d	NutRel_Alg
Opal	sedimentation flux of Opal	gSi/m ³ /d	Sed_Opal
Opal	resuspension flux DetSi from layer S1	gSi/m ³ /d	S12TraDetS
Opal	resuspension flux DetSi from layer S2	gSi/m ³ /d	S12TraDetS
Opal	resuspension flux OOSi from layer S1	gSi/m ³ /d	S12TraOOSi
Opal	resuspension flux OOSi from layer S1	gSi/m ³ /d	S12TraOOSi
Opal	resuspension flux OPAL from layer S1	gSi/m ³ /d	ResN_DiaS1
Opal	resuspension flux OPAL from layer S2	gSi/m ³ /d	ResN_DiaS2
Opal	dummy flux	gSi/m ³ /d	CONSBL
Opal	defecation flux Si of DEB Mussel	gSi/m ³ /d	DEBGRZ_M
Opal	grazing of POSi by DEB Mussel	gC/m ³ /d	DEBGRZ_M
Opal	defecation flux Si DEB Zooplankton	gSi/m ³ /d	DEBGRZ_Z
Opal	grazing of POSi by DEB Zooplankton	gC/m ³ /d	DEBGRZ_Z
Opal	defecation flux Si of DEB Grazer3	gSi/m ³ /d	DEBGRZ_G3
Opal	grazing of POSi by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
Opal	defecation flux Si of DEB Grazer4	gSi/m ³ /d	DEBGRZ_G4
Opal	grazing of POSi by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
Opal	defecation flux Si of DEB Grazer5	gSi/m ³ /d	DEBGRZ_G5
Opal	grazing of POSi by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
MPB1peli	resuspension flux MPB1 from layer S1	gC/m ³ /d	S12TraMPB1
MPB1peli	resuspension flux MPB1 from layer S2	gC/m ³ /d	S12TraMPB1
MPB2psam	resuspension flux MPB2 from layer S1	gC/m ³ /d	S12TraMPB2
MPB2psam	resuspension flux MPB2 from layer S2	gC/m ³ /d	S12TraMPB2
BLOOMALG01	primary production of algae type 01	gC/m ³ /d	BLOOM
BLOOMALG01	mortality of algae type 01	gC/m ³ /d	BLOOM
BLOOMALG01	sedimentation flux algae type 01	gC/m ³ /d	SEDALG01
BLOOMALG01	sedimentation flux algae type 01	gC/m ³ /d	UlvaFix
BLOOMALG01	grazing flux of algae type 01	gC/m ³ /d	CONSBL
BLOOMALG01	grazing of algae type 01 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG01	grazing of algae type 01 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG01	grazing of algae type 01 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG01	grazing of algae type 01 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
BLOOMALG01	grazing of algae type 01 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
BLOOMALG02	primary production of algae type 02	gC/m ³ /d	BLOOM
BLOOMALG02	mortality of algae type 02	gC/m ³ /d	BLOOM
BLOOMALG02	sedimentation flux algae type 02	gC/m ³ /d	SEDALG02
BLOOMALG02	sedimentation flux algae type 02	gC/m ³ /d	UlvaFix
BLOOMALG02	grazing flux of algae type 02	gC/m ³ /d	CONSBL
BLOOMALG02	grazing of algae type 02 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG02	grazing of algae type 02 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG02	grazing of algae type 02 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG02	grazing of algae type 02 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
BLOOMALG02	grazing of algae type 02 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
BLOOMALG03	primary production of algae type 03	gC/m ³ /d	BLOOM
BLOOMALG03	mortality of algae type 03	gC/m ³ /d	BLOOM
BLOOMALG03	sedimentation flux algae type 03	gC/m ³ /d	SEDALG03
BLOOMALG03	sedimentation flux algae type 03	gC/m ³ /d	UlvaFix
BLOOMALG03	grazing flux of algae type 03	gC/m ³ /d	CONSBL
BLOOMALG03	grazing of algae type 03 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG03	grazing of algae type 03 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG03	grazing of algae type 03 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG03	grazing of algae type 03 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
BLOOMALG03	grazing of algae type 03 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
BLOOMALG04	primary production of algae type 04	gC/m ³ /d	BLOOM
BLOOMALG04	mortality of algae type 04	gC/m ³ /d	BLOOM
BLOOMALG04	sedimentation flux algae type 04	gC/m ³ /d	SEDALG04
BLOOMALG04	sedimentation flux algae type 04	gC/m ³ /d	UlvaFix
BLOOMALG04	grazing flux of algae type 04	gC/m ³ /d	CONSBL

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Substance	Description	Unit	Process
BLOOMALG04	grazing of algae type 04 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG04	grazing of algae type 04 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG04	grazing of algae type 04 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG04	grazing of algae type 04 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
BLOOMALG04	grazing of algae type 04 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
BLOOMALG05	primary production of algae type 05	gC/m ³ /d	BLOOM
BLOOMALG05	mortality of algae type 05	gC/m ³ /d	BLOOM
BLOOMALG05	sedimentation flux algae type 05	gC/m ³ /d	SEDALG05
BLOOMALG05	sedimentation flux algae type 05	gC/m ³ /d	UlvaFix
BLOOMALG05	grazing flux of algae type 05	gC/m ³ /d	CONSBL
BLOOMALG05	grazing of algae type 05 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG05	grazing of algae type 05 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG05	grazing of algae type 05 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG05	grazing of algae type 05 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
BLOOMALG05	grazing of algae type 05 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
BLOOMALG06	primary production of algae type 06	gC/m ³ /d	BLOOM
BLOOMALG06	mortality of algae type 06	gC/m ³ /d	BLOOM
BLOOMALG06	sedimentation flux algae type 06	gC/m ³ /d	SEDALG06
BLOOMALG06	sedimentation flux algae type 06	gC/m ³ /d	UlvaFix
BLOOMALG06	grazing flux of algae type 06	gC/m ³ /d	CONSBL
BLOOMALG06	grazing of algae type 06 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG06	grazing of algae type 06 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG06	grazing of algae type 06 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG06	grazing of algae type 06 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
BLOOMALG06	grazing of algae type 06 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
BLOOMALG07	primary production of algae type 07	gC/m ³ /d	BLOOM
BLOOMALG07	mortality of algae type 07	gC/m ³ /d	BLOOM
BLOOMALG07	sedimentation flux algae type 07	gC/m ³ /d	SEDALG07
BLOOMALG07	sedimentation flux algae type 07	gC/m ³ /d	UlvaFix
BLOOMALG07	grazing flux of algae type 07	gC/m ³ /d	CONSBL
BLOOMALG07	grazing of algae type 07 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG07	grazing of algae type 07 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG07	grazing of algae type 07 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG07	grazing of algae type 07 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
BLOOMALG07	grazing of algae type 07 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
BLOOMALG08	primary production of algae type 08	gC/m ³ /d	BLOOM
BLOOMALG08	mortality of algae type 08	gC/m ³ /d	BLOOM
BLOOMALG08	sedimentation flux algae type 08	gC/m ³ /d	SEDALG08
BLOOMALG08	sedimentation flux algae type 08	gC/m ³ /d	UlvaFix
BLOOMALG08	grazing flux of algae type 08	gC/m ³ /d	CONSBL
BLOOMALG08	grazing of algae type 08 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG08	grazing of algae type 08 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG08	grazing of algae type 08 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG08	grazing of algae type 08 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
BLOOMALG08	grazing of algae type 08 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
BLOOMALG09	primary production of algae type 09	gC/m ³ /d	BLOOM
BLOOMALG09	mortality of algae type 09	gC/m ³ /d	BLOOM
BLOOMALG09	sedimentation flux algae type 09	gC/m ³ /d	SEDALG09
BLOOMALG09	sedimentation flux algae type 09	gC/m ³ /d	UlvaFix
BLOOMALG09	grazing flux of algae type 09	gC/m ³ /d	CONSBL
BLOOMALG09	grazing of algae type 09 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG09	grazing of algae type 09 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG09	grazing of algae type 09 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG09	grazing of algae type 09 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
BLOOMALG09	grazing of algae type 09 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
BLOOMALG10	primary production of algae type 10	gC/m ³ /d	BLOOM
BLOOMALG10	mortality of algae type 10	gC/m ³ /d	BLOOM
BLOOMALG10	sedimentation flux algae type 10	gC/m ³ /d	SEDALG10
BLOOMALG10	sedimentation flux algae type 10	gC/m ³ /d	UlvaFix
BLOOMALG10	grazing flux of algae type 10	gC/m ³ /d	CONSBL
BLOOMALG10	grazing of algae type 10 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG10	grazing of algae type 10 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG10	grazing of algae type 10 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG10	grazing of algae type 10 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
BLOOMALG10	grazing of algae type 10 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
BLOOMALG11	primary production of algae type 11	gC/m ³ /d	BLOOM
BLOOMALG11	mortality of algae type 11	gC/m ³ /d	BLOOM
BLOOMALG11	sedimentation flux algae type 11	gC/m ³ /d	SEDALG11

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Substance	Description	Unit	Process
BLOOMALG11	sedimentation flux algae type 11	gC/m ³ /d	UlvaFix
BLOOMALG11	grazing flux of algae type 11	gC/m ³ /d	CONSBL
BLOOMALG11	grazing of algae type 11 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG11	grazing of algae type 11 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG11	grazing of algae type 11 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG11	grazing of algae type 11 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
BLOOMALG11	grazing of algae type 11 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
BLOOMALG12	primary production of algae type 12	gC/m ³ /d	BLOOM
BLOOMALG12	mortality of algae type 12	gC/m ³ /d	BLOOM
BLOOMALG12	sedimentation flux algae type 12	gC/m ³ /d	SEDALG12
BLOOMALG12	sedimentation flux algae type 12	gC/m ³ /d	UlvaFix
BLOOMALG12	grazing flux of algae type 12	gC/m ³ /d	CONSBL
BLOOMALG12	grazing of algae type 12 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG12	grazing of algae type 12 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG12	grazing of algae type 12 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG12	grazing of algae type 12 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
BLOOMALG12	grazing of algae type 12 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
BLOOMALG13	primary production of algae type 13	gC/m ³ /d	BLOOM
BLOOMALG13	mortality of algae type 13	gC/m ³ /d	BLOOM
BLOOMALG13	sedimentation flux algae type 13	gC/m ³ /d	SEDALG13
BLOOMALG13	sedimentation flux algae type 13	gC/m ³ /d	UlvaFix
BLOOMALG13	grazing flux of algae type 13	gC/m ³ /d	CONSBL
BLOOMALG13	grazing of algae type 13 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG13	grazing of algae type 13 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG13	grazing of algae type 13 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG13	grazing of algae type 13 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
BLOOMALG13	grazing of algae type 13 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
BLOOMALG14	primary production of algae type 14	gC/m ³ /d	BLOOM
BLOOMALG14	mortality of algae type 14	gC/m ³ /d	BLOOM
BLOOMALG14	sedimentation flux algae type 14	gC/m ³ /d	SEDALG14
BLOOMALG14	sedimentation flux algae type 14	gC/m ³ /d	UlvaFix
BLOOMALG14	grazing flux of algae type 14	gC/m ³ /d	CONSBL
BLOOMALG14	grazing of algae type 14 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG14	grazing of algae type 14 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG14	grazing of algae type 14 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG14	grazing of algae type 14 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
BLOOMALG14	grazing of algae type 14 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
BLOOMALG15	primary production of algae type 15	gC/m ³ /d	BLOOM
BLOOMALG15	mortality of algae type 15	gC/m ³ /d	BLOOM
BLOOMALG15	sedimentation flux algae type 15	gC/m ³ /d	SEDALG15
BLOOMALG15	sedimentation flux algae type 15	gC/m ³ /d	UlvaFix
BLOOMALG15	grazing flux of algae type 15	gC/m ³ /d	CONSBL
BLOOMALG15	grazing of algae type 15 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG15	grazing of algae type 15 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG15	grazing of algae type 15 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG15	grazing of algae type 15 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
BLOOMALG15	grazing of algae type 15 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
BLOOMALG16	primary production of algae type 16	gC/m ³ /d	BLOOM
BLOOMALG16	mortality of algae type 16	gC/m ³ /d	BLOOM
BLOOMALG16	sedimentation flux algae type 16	gC/m ³ /d	SEDALG16
BLOOMALG16	sedimentation flux algae type 16	gC/m ³ /d	UlvaFix
BLOOMALG16	grazing flux of algae type 16	gC/m ³ /d	CONSBL
BLOOMALG16	grazing of algae type 16 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG16	grazing of algae type 16 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG16	grazing of algae type 16 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG16	grazing of algae type 16 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
BLOOMALG16	grazing of algae type 16 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
BLOOMALG17	primary production of algae type 17	gC/m ³ /d	BLOOM
BLOOMALG17	mortality of algae type 17	gC/m ³ /d	BLOOM
BLOOMALG17	sedimentation flux algae type 17	gC/m ³ /d	SEDALG17
BLOOMALG17	sedimentation flux algae type 17	gC/m ³ /d	UlvaFix
BLOOMALG17	grazing flux of algae type 17	gC/m ³ /d	CONSBL
BLOOMALG17	grazing of algae type 17 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG17	grazing of algae type 17 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG17	grazing of algae type 17 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG17	grazing of algae type 17 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
BLOOMALG17	grazing of algae type 17 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
BLOOMALG18	primary production of algae type 18	gC/m ³ /d	BLOOM

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Table 2.1 – continued from previous page

Substance	Description	Unit	Process
BLOOMALG18	mortality of algae type 18	gC/m ³ /d	BLOOM
BLOOMALG18	sedimentation flux algae type 18	gC/m ³ /d	SEDALG18
BLOOMALG18	sedimentation flux algae type 18	gC/m ³ /d	UlvaFix
BLOOMALG18	grazing flux of algae type 18	gC/m ³ /d	CONSBL
BLOOMALG18	grazing of algae type 18 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG18	grazing of algae type 18 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG18	grazing of algae type 18 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG18	grazing of algae type 18 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
BLOOMALG18	grazing of algae type 18 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
BLOOMALG19	primary production of algae type 19	gC/m ³ /d	BLOOM
BLOOMALG19	mortality of algae type 19	gC/m ³ /d	BLOOM
BLOOMALG19	sedimentation flux algae type 19	gC/m ³ /d	SEDALG19
BLOOMALG19	sedimentation flux algae type 19	gC/m ³ /d	UlvaFix
BLOOMALG19	grazing flux of algae type 19	gC/m ³ /d	CONSBL
BLOOMALG19	grazing of algae type 19 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG19	grazing of algae type 19 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG19	grazing of algae type 19 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG19	grazing of algae type 19 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
BLOOMALG19	grazing of algae type 19 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
BLOOMALG20	primary production of algae type 20	gC/m ³ /d	BLOOM
BLOOMALG20	mortality of algae type 20	gC/m ³ /d	BLOOM
BLOOMALG20	sedimentation flux algae type 20	gC/m ³ /d	SEDALG20
BLOOMALG20	sedimentation flux algae type 20	gC/m ³ /d	UlvaFix
BLOOMALG20	grazing flux of algae type 20	gC/m ³ /d	CONSBL
BLOOMALG20	grazing of algae type 20 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG20	grazing of algae type 20 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG20	grazing of algae type 20 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG20	grazing of algae type 20 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
BLOOMALG20	grazing of algae type 20 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
BLOOMALG21	primary production of algae type 21	gC/m ³ /d	BLOOM
BLOOMALG21	mortality of algae type 21	gC/m ³ /d	BLOOM
BLOOMALG21	sedimentation flux algae type 21	gC/m ³ /d	SEDALG21
BLOOMALG21	sedimentation flux algae type 21	gC/m ³ /d	UlvaFix
BLOOMALG21	grazing flux of algae type 21	gC/m ³ /d	CONSBL
BLOOMALG21	grazing of algae type 21 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG21	grazing of algae type 21 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG21	grazing of algae type 21 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG21	grazing of algae type 21 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
BLOOMALG21	grazing of algae type 21 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
BLOOMALG22	primary production of algae type 22	gC/m ³ /d	BLOOM
BLOOMALG22	mortality of algae type 22	gC/m ³ /d	BLOOM
BLOOMALG22	sedimentation flux algae type 22	gC/m ³ /d	SEDALG22
BLOOMALG22	sedimentation flux algae type 22	gC/m ³ /d	UlvaFix
BLOOMALG22	grazing flux of algae type 22	gC/m ³ /d	CONSBL
BLOOMALG22	grazing of algae type 22 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG22	grazing of algae type 22 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG22	grazing of algae type 22 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG22	grazing of algae type 22 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
BLOOMALG22	grazing of algae type 22 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
BLOOMALG23	primary production of algae type 23	gC/m ³ /d	BLOOM
BLOOMALG23	mortality of algae type 23	gC/m ³ /d	BLOOM
BLOOMALG23	sedimentation flux algae type 23	gC/m ³ /d	SEDALG23
BLOOMALG23	sedimentation flux algae type 23	gC/m ³ /d	UlvaFix
BLOOMALG23	grazing flux of algae type 23	gC/m ³ /d	CONSBL
BLOOMALG23	grazing of algae type 23 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG23	grazing of algae type 23 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG23	grazing of algae type 23 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG23	grazing of algae type 23 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
BLOOMALG23	grazing of algae type 23 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
BLOOMALG24	primary production of algae type 24	gC/m ³ /d	BLOOM
BLOOMALG24	mortality of algae type 24	gC/m ³ /d	BLOOM
BLOOMALG24	sedimentation flux algae type 24	gC/m ³ /d	SEDALG24
BLOOMALG24	sedimentation flux algae type 24	gC/m ³ /d	UlvaFix
BLOOMALG24	grazing flux of algae type 24	gC/m ³ /d	CONSBL
BLOOMALG24	grazing of algae type 24 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG24	grazing of algae type 24 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG24	grazing of algae type 24 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG24	grazing of algae type 24 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4

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Substance	Description	Unit	Process
BLOOMALG24	grazing of algae type 24 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
BLOOMALG25	primary production of algae type 25	gC/m ³ /d	BLOOM
BLOOMALG25	mortality of algae type 25	gC/m ³ /d	BLOOM
BLOOMALG25	sedimentation flux algae type 25	gC/m ³ /d	SEDALG25
BLOOMALG25	sedimentation flux algae type 25	gC/m ³ /d	UlvaFix
BLOOMALG25	grazing flux of algae type 25	gC/m ³ /d	CONSBL
BLOOMALG25	grazing of algae type 25 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG25	grazing of algae type 25 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG25	grazing of algae type 25 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG25	grazing of algae type 25 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
BLOOMALG25	grazing of algae type 25 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
BLOOMALG26	primary production of algae type 26	gC/m ³ /d	BLOOM
BLOOMALG26	mortality of algae type 26	gC/m ³ /d	BLOOM
BLOOMALG26	sedimentation flux algae type 26	gC/m ³ /d	SEDALG26
BLOOMALG26	sedimentation flux algae type 26	gC/m ³ /d	UlvaFix
BLOOMALG26	grazing flux of algae type 26	gC/m ³ /d	CONSBL
BLOOMALG26	grazing of algae type 26 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG26	grazing of algae type 26 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG26	grazing of algae type 26 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG26	grazing of algae type 26 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
BLOOMALG26	grazing of algae type 26 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
BLOOMALG27	primary production of algae type 27	gC/m ³ /d	BLOOM
BLOOMALG27	mortality of algae type 27	gC/m ³ /d	BLOOM
BLOOMALG27	sedimentation flux algae type 27	gC/m ³ /d	SEDALG27
BLOOMALG27	sedimentation flux algae type 27	gC/m ³ /d	UlvaFix
BLOOMALG27	grazing flux of algae type 27	gC/m ³ /d	CONSBL
BLOOMALG27	grazing of algae type 27 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG27	grazing of algae type 27 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG27	grazing of algae type 27 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG27	grazing of algae type 27 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
BLOOMALG27	grazing of algae type 27 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
BLOOMALG28	primary production of algae type 28	gC/m ³ /d	BLOOM
BLOOMALG28	mortality of algae type 28	gC/m ³ /d	BLOOM
BLOOMALG28	sedimentation flux algae type 28	gC/m ³ /d	SEDALG28
BLOOMALG28	sedimentation flux algae type 28	gC/m ³ /d	UlvaFix
BLOOMALG28	grazing flux of algae type 28	gC/m ³ /d	CONSBL
BLOOMALG28	grazing of algae type 28 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG28	grazing of algae type 28 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG28	grazing of algae type 28 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG28	grazing of algae type 28 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
BLOOMALG28	grazing of algae type 28 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
BLOOMALG29	primary production of algae type 29	gC/m ³ /d	BLOOM
BLOOMALG29	mortality of algae type 29	gC/m ³ /d	BLOOM
BLOOMALG29	sedimentation flux algae type 29	gC/m ³ /d	SEDALG29
BLOOMALG29	sedimentation flux algae type 29	gC/m ³ /d	UlvaFix
BLOOMALG29	grazing flux of algae type 29	gC/m ³ /d	CONSBL
BLOOMALG29	grazing of algae type 29 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG29	grazing of algae type 29 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG29	grazing of algae type 29 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG29	grazing of algae type 29 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
BLOOMALG29	grazing of algae type 29 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
BLOOMALG30	primary production of algae type 30	gC/m ³ /d	BLOOM
BLOOMALG30	mortality of algae type 30	gC/m ³ /d	BLOOM
BLOOMALG30	sedimentation flux algae type 30	gC/m ³ /d	SEDALG30
BLOOMALG30	sedimentation flux algae type 30	gC/m ³ /d	UlvaFix
BLOOMALG30	grazing flux of algae type 30	gC/m ³ /d	CONSBL
BLOOMALG30	grazing of algae type 30 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
BLOOMALG30	grazing of algae type 30 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
BLOOMALG30	grazing of algae type 30 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
BLOOMALG30	grazing of algae type 30 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
BLOOMALG30	grazing of algae type 30 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
OMP	resuspension flux OMP from layer S1	gOMP/m ³ /d	S12TraOMP
OMP	resuspension flux OMP from layer S2	gOMP/m ³ /d	S12TraOMP
OMP	volatilisation flux OMP	g/m ³ /d	Volat_OMP
OMP	overall loss flux OMP in water	g/m ³ /d	Los_WK_OMP
OMP	sedimentation flux OMP	gOMP/m ³ /d	Sed_OMP
OMP	atmospheric deposition flux OMP	gOMP/m ³ /d	AtmDep_OMP
OMP	diffusive waste flux OMP	gOMP/m ³ /d	Dfwast_OMP

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Table 2.1 – continued from previous page

Substance	Description	Unit	Process
SO4	uptake of carbon by algae growth	gC/m ³ /d	BLOOM_P
SO4	mineralisation flux oxid. with sulphate	gC/m ³ /d	CONSELAC
SO4	sulphide oxidation flux	gS/m ³ /d	OXIDSUD
SO4	methane oxidation flux with sulphate	gC/m ³ /d	OXIDCH4
SO4	rate of iron sulphide oxidation	gFe/m ³ /d	SULPHOX
SO4	rate of pyrite oxidation	gFe/m ³ /d	SULPHOX
SO4	rate of amorphous iron red. with H2S	gFe/m ³ /d	IRONRED
SO4	rate of crystalline iron red. with H2S	gFe/m ³ /d	IRONRED
SO4	rate of amorphous iron red. with FeS	gFe/m ³ /d	IRONRED
SO4	rate of crystalline iron red. with FeS	gFe/m ³ /d	IRONRED
SO4	atmospheric deposition flux SO4	gS/m ³ /d	AtmDep_SO4
SO4	diffusive waste flux SO4	gS/m ³ /d	Dfwast_SO4
SO4	uptake VB01 through roots S pool 1	gS/m ³ /d	VB01_Upt3D
SO4	uptake VB02 through roots S pool 1	gS/m ³ /d	VB02_Upt3D
SO4	uptake VB03 through roots S pool 1	gS/m ³ /d	VB03_Upt3D
SO4	uptake VB04 through roots S pool 1	gS/m ³ /d	VB04_Upt3D
SO4	uptake VB05 through roots S pool 1	gS/m ³ /d	VB05_Upt3D
SO4	uptake VB06 through roots S pool 1	gS/m ³ /d	VB06_Upt3D
SO4	uptake VB07 through roots S pool 1	gS/m ³ /d	VB07_Upt3D
SO4	uptake VB08 through roots S pool 1	gS/m ³ /d	VB08_Upt3D
SO4	uptake VB09 through roots S pool 1	gS/m ³ /d	VB09_Upt3D
SUD	autolysis flux of carbon	gC/m ³ /d	BLOOM_P
SUD	mineralization flux POS1 to SUD	gS/m ³ /d	DecFast
SUD	mineralization flux POS2 to SUD	gS/m ³ /d	DecMedium
SUD	mineralization flux POS3 to SUD	gS/m ³ /d	DecSlow
SUD	mineralization flux POS4 to SUD	gS/m ³ /d	DecRefr
SUD	mineralization flux DOS to SUD	gS/m ³ /d	DecDOC
SUD	mineralisation flux POS5 to SO4	gS/m ³ /d	DecPOC5
SUD	mineralisation flux oxid. with sulphate	gC/m ³ /d	CONSELAC
SUD	sulphide oxidation flux	gS/m ³ /d	OXIDSUD
SUD	sulphide precipitation flux	gS/m ³ /d	PRECSUL
SUD	sulphide dissolution flux	gS/m ³ /d	PRECSUL
SUD	methane oxidation flux with sulphate	gC/m ³ /d	OXIDCH4
SUD	rate of amorphous iron red. with H2S	gFe/m ³ /d	IRONRED
SUD	rate of crystalline iron red. with H2S	gFe/m ³ /d	IRONRED
SUD	rate of ironII sulphide precipitation	gFe/m ³ /d	PRIRON
SUD	rate of ironII sulphide dissolution	gFe/m ³ /d	PRIRON
SUD	rate of pyrite formation	gFe/m ³ /d	PRIRON
SUD	uptake VB01 through roots S pool 2	gS/m ³ /d	VB01_Upt3D
SUD	uptake VB02 through roots S pool 2	gS/m ³ /d	VB02_Upt3D
SUD	uptake VB03 through roots S pool 2	gS/m ³ /d	VB03_Upt3D
SUD	uptake VB04 through roots S pool 2	gS/m ³ /d	VB04_Upt3D
SUD	uptake VB05 through roots S pool 2	gS/m ³ /d	VB05_Upt3D
SUD	uptake VB06 through roots S pool 2	gS/m ³ /d	VB06_Upt3D
SUD	uptake VB07 through roots S pool 2	gS/m ³ /d	VB07_Upt3D
SUD	uptake VB08 through roots S pool 2	gS/m ³ /d	VB08_Upt3D
SUD	uptake VB09 through roots S pool 2	gS/m ³ /d	VB09_Upt3D
SUP	sulphide precipitation flux	gS/m ³ /d	PRECSUL
SUP	sulphide dissolution flux	gS/m ³ /d	PRECSUL
VIVP	dummy flux to access Compos	-	Compos
VIVP	precipitation flux PO4 to vivianite	gP/m ³ /d	Vivianit
VIVP	dissolution flux vivianite to PO4	gP/m ³ /d	Vivianit
APATP	dummy flux to access Compos	-	Compos
APATP	precipitation flux PO4 to apatite	gP/m ³ /d	APATITE
APATP	dissolution flux apatite to PO4	gP/m ³ /d	APATITE
CH4	mineralisation flux conv. into methane	gC/m ³ /d	CONSELAC
CH4	methane ebullition flux	gC/m ³ /d	EBULCH4
CH4	reaeration flux	gC/m ³ /d	VolatCH4
CH4	methane oxidation flux with DO	gC/m ³ /d	OXIDCH4
CH4	methane oxidation flux with sulphate	gC/m ³ /d	OXIDCH4
Alka	dummy flux to access pH_simp	-	pH_carb
Alka	dummy flux to access pH_simp	-	pH_simp
Alka	autolysis flux of nitrogen	gN/m ³ /d	BLOOM_P
Alka	autolysis flux of PO4	gP/m ³ /d	BLOOM_P
Alka	NH4 uptake by algae growth	gN/m ³ /d	BLOOM_P
Alka	uptake of NO3 by algae growth	gN/m ³ /d	BLOOM_P
Alka	PO4 uptake by algae growth	gP/m ³ /d	BLOOM_P
Alka	denitrification flux in the water column	gN/m ³ /d	DenWat_NO3

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Substance	Description	Unit	Process
Alka	nitrification flux	gN/m ³ /d	Nitrif_NH4
Alka	mineralisation flux DetNS1	gN/m ³ /d	BMS1_DetN
Alka	SWITCH mineralisation flux DetN in layer S1	gN/m ³ /d	BMS1_DetN
Alka	mineralisation flux DetNS2	gN/m ³ /d	BMS2_DetN
Alka	SWITCH mineralisation flux DetN in layer S2	gN/m ³ /d	BMS2_DetN
Alka	mineralisation flux DetPS1	gP/m ³ /d	BMS1_DetP
Alka	SWITCH mineralisation flux DetP in layer S1	gN/m ³ /d	BMS1_DetP
Alka	mineralisation flux DetPS2	gP/m ³ /d	BMS2_DetP
Alka	SWITCH mineralisation flux DetP in layer S2	gN/m ³ /d	BMS2_DetP
Alka	mineralisation flux OONS1	gN/m ³ /d	BMS1_OON
Alka	SWITCH mineralisation flux OON in layer S1	gN/m ³ /d	BMS1_OON
Alka	mineralisation flux OONS2	gN/m ³ /d	BMS2_OON
Alka	SWITCH mineralisation flux OON in layer S2	gN/m ³ /d	BMS2_OON
Alka	mineralisation flux OOPS1	gP/m ³ /d	BMS1_OOP
Alka	SWITCH mineralisation flux OOP in layer S1	gP/m ³ /d	BMS1_OOP
Alka	mineralisation flux OOPS2	gP/m ³ /d	BMS2_OOP
Alka	SWITCH mineralisation flux OOP in layer S2	gP/m ³ /d	BMS2_OOP
Alka	NH4 uptake by algae growth in layer S1	gN/m ³ /d	GroMrt_DS1
Alka	uptake of NO3 by algae growth in layer S1	gN/m ³ /d	GroMrt_DS1
Alka	PO4 uptake by algae growth in layer S1	gP/m ³ /d	GroMrt_DS1
Alka	NH4 uptake by algae growth from detritus	gN/m ³ /d	GroMrt_DS1
Alka	PO4 uptake by algae growth from detritus	gP/m ³ /d	GroMrt_DS1
Alka	autolysis flux of NH4	gN/m ³ /d	NutRel_Alg
Alka	autolysis of PO4	gP/m ³ /d	NutRel_Alg
Alka	autolysis algae to NH4 in layer S1	gN/m ³ /d	NRAlg_S1
Alka	autolysis algae in layer S1 to PO4	gP/m ³ /d	NRAlg_S1
Alka	mineralisation flux oxidised with nitrate	gC/m ³ /d	CONSELAC
Alka	mineralisation flux oxid. with iron	gC/m ³ /d	CONSELAC
Alka	rate of pyrite oxidation	gFe/m ³ /d	SULPHOX
Alka	rate of amorphous iron red. with H2S	gFe/m ³ /d	IRONRED
Alka	rate of crystalline iron red. with H2S	gFe/m ³ /d	IRONRED
Alka	rate of amorphous iron red. with FeS	gFe/m ³ /d	IRONRED
Alka	rate of crystalline iron red. with FeS	gFe/m ³ /d	IRONRED
Alka	rate of amorphous ironIII precipitat.	gFe/m ³ /d	PRIRON
Alka	rate of amorphous ironIII dissolution	gFe/m ³ /d	PRIRON
Alka	rate of ironII carbonate precipitation	gFe/m ³ /d	PRIRON
Alka	rate of ironII carbonate dissolution	gFe/m ³ /d	PRIRON
Alka	flux to dissolved nitrogen from grazing	gN/m ³ /d	CONSBL
Alka	flux to dissolved phosphorus from grazing	gP/m ³ /d	CONSBL
Alka	atmospheric deposition flux NH4	gN/m ³ /d	AtmDep_NH4
Alka	atmospheric deposition flux NO3	gNO3/m ³ /d	AtmDep_NO3
Alka	atmospheric deposition flux SO4	gS/m ³ /d	AtmDep_SO4
Alka	respiration flux of DEB Mussel	gN/m ³ /d	DEBGRZ_M
Alka	respiration flux of DEB Mussel	gP/m ³ /d	DEBGRZ_M
Alka	respiration flux DEB Zooplankton	gN/m ³ /d	DEBGRZ_Z
Alka	respiration flux DEB Zooplankton	gP/m ³ /d	DEBGRZ_Z
Alka	respiration flux of DEB Grazer3	gN/m ³ /d	DEBGRZ_G3
Alka	respiration flux of DEB Grazer3	gP/m ³ /d	DEBGRZ_G3
Alka	respiration flux of DEB Grazer4	gN/m ³ /d	DEBGRZ_G4
Alka	respiration flux of DEB Grazer4	gP/m ³ /d	DEBGRZ_G4
Alka	respiration flux of DEB Grazer5	gN/m ³ /d	DEBGRZ_G5
Alka	respiration flux of DEB Grazer5	gP/m ³ /d	DEBGRZ_G5
FellIpa	mineralisation flux oxid. with iron	gC/m ³ /d	CONSELAC
FellIpa	rate of amorphous iron red. with H2S	gFe/m ³ /d	IRONRED
FellIpa	rate of amorphous iron red. with FeS	gFe/m ³ /d	IRONRED
FellIpa	rate of amorphous ironIII precipitat.	gFe/m ³ /d	PRIRON
FellIpa	rate of amorphous ironIII dissolution	gFe/m ³ /d	PRIRON
FellIpa	rate of amorphous ironIII aging	gFe/m ³ /d	PRIRON
FellIpc	rate of crystalline iron red. with H2S	gFe/m ³ /d	IRONRED
FellIpc	rate of crystalline iron red. with FeS	gFe/m ³ /d	IRONRED
FellIpc	rate of amorphous ironIII aging	gFe/m ³ /d	PRIRON
FellId	rate of iron oxidation with oxygen	gFe/m ³ /d	IRONOX
FellId	rate of iron oxidation with nitrate	gFe/m ³ /d	IRONOX
FellId	rate of amorphous ironIII precipitat.	gFe/m ³ /d	PRIRON
FellId	rate of amorphous ironIII dissolution	gFe/m ³ /d	PRIRON
FellId	mineralisation flux oxid. with iron	gC/m ³ /d	CONSELAC
FellId	rate of iron oxidation with oxygen	gFe/m ³ /d	IRONOX
FellId	rate of iron oxidation with nitrate	gFe/m ³ /d	IRONOX

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Substance	Description	Unit	Process
FeIld	rate of iron sulphide oxidation	gFe/m ³ /d	SULPHOX
FeIld	rate of pyrite oxidation	gFe/m ³ /d	SULPHOX
FeIld	rate of amorphous iron red. with H ₂ S	gFe/m ³ /d	IRONRED
FeIld	rate of crystalline iron red. with H ₂ S	gFe/m ³ /d	IRONRED
FeIld	rate of amorphous iron red. with FeS	gFe/m ³ /d	IRONRED
FeIld	rate of crystalline iron red. with FeS	gFe/m ³ /d	IRONRED
FeIld	rate of ironII sulphide precipitation	gFe/m ³ /d	PRIRON
FeIld	rate of ironII sulphide dissolution	gFe/m ³ /d	PRIRON
FeIld	rate of ironII carbonate precipitation	gFe/m ³ /d	PRIRON
FeIld	rate of ironII carbonate dissolution	gFe/m ³ /d	PRIRON
FeS	rate of iron sulphide oxidation	gFe/m ³ /d	SULPHOX
FeS	rate of amorphous iron red. with FeS	gFe/m ³ /d	IRONRED
FeS	rate of crystalline iron red. with FeS	gFe/m ³ /d	IRONRED
FeS	rate of ironII sulphide precipitation	gFe/m ³ /d	PRIRON
FeS	rate of ironII sulphide dissolution	gFe/m ³ /d	PRIRON
FeS	rate of pyrite formation	gFe/m ³ /d	PRIRON
FeS ₂	rate of pyrite oxidation	gFe/m ³ /d	SULPHOX
FeS ₂	rate of pyrite formation	gFe/m ³ /d	PRIRON
FeCO ₃	rate of ironII carbonate precipitation	gFe/m ³ /d	PRIRON
FeCO ₃	rate of ironII carbonate dissolution	gFe/m ³ /d	PRIRON
APHANFIX	production of algae type	gC/m ³ /d	BLOOM_P
APHANFIX	dummy flux to access Phy_Blo_P	-	Phy_Blo_P
APHANFIX	sedimentation flux algae	gC/m ³ /d	SEDALG
APHANIZO	production of algae type	gC/m ³ /d	BLOOM_P
APHANIZO	dummy flux to access Phy_Blo_P	-	Phy_Blo_P
APHANIZO	sedimentation flux algae	gC/m ³ /d	SEDALG
BLUEGRN	production of algae type	gC/m ³ /d	BLOOM_P
BLUEGRN	dummy flux to access Phy_Blo_P	-	Phy_Blo_P
BLUEGRN	sedimentation flux algae	gC/m ³ /d	SEDALG
DINOFLAG	production of algae type	gC/m ³ /d	BLOOM_P
DINOFLAG	dummy flux to access Phy_Blo_P	-	Phy_Blo_P
DINOFLAG	sedimentation flux algae	gC/m ³ /d	SEDALG
DINOMIX	production of algae type	gC/m ³ /d	BLOOM_P
DINOMIX	dummy flux to access Phy_Blo_P	-	Phy_Blo_P
DINOMIX	sedimentation flux algae	gC/m ³ /d	SEDALG
FDIATOMS	production of algae type	gC/m ³ /d	BLOOM_P
FDIATOMS	dummy flux to access Phy_Blo_P	-	Phy_Blo_P
FDIATOMS	sedimentation flux algae	gC/m ³ /d	SEDALG
FFLAGELA	production of algae type	gC/m ³ /d	BLOOM_P
FFLAGELA	dummy flux to access Phy_Blo_P	-	Phy_Blo_P
FFLAGELA	sedimentation flux algae	gC/m ³ /d	SEDALG
GREENS	production of algae type	gC/m ³ /d	BLOOM_P
GREENS	dummy flux to access Phy_Blo_P	-	Phy_Blo_P
GREENS	sedimentation flux algae	gC/m ³ /d	SEDALG
MDIATOMS	production of algae type	gC/m ³ /d	BLOOM_P
MDIATOMS	dummy flux to access Phy_Blo_P	-	Phy_Blo_P
MDIATOMS	sedimentation flux algae	gC/m ³ /d	SEDALG
MFLAGELA	production of algae type	gC/m ³ /d	BLOOM_P
MFLAGELA	dummy flux to access Phy_Blo_P	-	Phy_Blo_P
MFLAGELA	sedimentation flux algae	gC/m ³ /d	SEDALG
MICROCYS	production of algae type	gC/m ³ /d	BLOOM_P
MICROCYS	dummy flux to access Phy_Blo_P	-	Phy_Blo_P
MICROCYS	sedimentation flux algae	gC/m ³ /d	SEDALG
OSCILAT	production of algae type	gC/m ³ /d	BLOOM_P
OSCILAT	dummy flux to access Phy_Blo_P	-	Phy_Blo_P
OSCILAT	sedimentation flux algae	gC/m ³ /d	SEDALG
PHAEOCYS	production of algae type	gC/m ³ /d	BLOOM_P
PHAEOCYS	dummy flux to access Phy_Blo_P	-	Phy_Blo_P
PHAEOCYS	sedimentation flux algae	gC/m ³ /d	SEDALG
UlvaF	production of algae type	gC/m ³ /d	BLOOM_P
UlvaF	dummy flux to access Phy_Blo_P	-	Phy_Blo_P
UlvaF	sedimentation flux algae	gC/m ³ /d	SEDALG
UlvaF	sedimentation flux algae	gC/m ³ /d	UlvaFix_P
UlvaS	production of algae type	gC/m ³ /d	BLOOM_P
UlvaS	dummy flux to access Phy_Blo_P	-	Phy_Blo_P
UlvaS	sedimentation flux algae	gC/m ³ /d	SEDALG
UlvaS	sedimentation flux algae	gC/m ³ /d	UlvaFix_P
NODULA	production of algae type	gC/m ³ /d	BLOOM_P

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Substance	Description	Unit	Process
NODULA	dummy flux to access Phy_Blo_P	-	Phy_Blo_P
NODULA	sedimentation flux algae	gC/m ³ /d	SEDALG
ANABAENA	production of algae type	gC/m ³ /d	BLOOM_P
ANABAENA	dummy flux to access Phy_Blo_P	-	Phy_Blo_P
ANABAENA	sedimentation flux algae	gC/m ³ /d	SEDALG
IM1S1	dummy flux to access MakOOCs1	-	MakOOCs1
IM1S1	dummy flux to access S1_Comp	-	S1_Comp
IM1S1	sedimentation flux of IM1 towards S1	g/m ³ /d	Sed_IM1
IM1S1	resuspension flux IM1 from layer S1	g/m ³ /d	S12TraIM1
IM1S1	burial flux IM1 from layer S1	g/m ³ /d	S12TraIM1
IM1S1	digging flux IM1 to layer S1	g/m ³ /d	S12TraIM1
IM1S1	dredging IM1S1	g/m ³ /d	Dredge
IM2S1	dummy flux to access MakOOCs1	-	MakOOCs1
IM2S1	dummy flux to access S1_Comp	-	S1_Comp
IM2S1	sedimentation flux of IM2 towards S1	g/m ³ /d	Sed_IM2
IM2S1	resuspension flux IM2 from layer S1	g/m ³ /d	S12TraIM2
IM2S1	burial flux IM2 from layer S1	g/m ³ /d	S12TraIM2
IM2S1	digging flux IM2 to layer S1	g/m ³ /d	S12TraIM2
IM2S1	dredging IM2S1	g/m ³ /d	Dredge
IM3S1	dummy flux to access MakOOCs1	-	MakOOCs1
IM3S1	dummy flux to access S1_Comp	-	S1_Comp
IM3S1	sedimentation flux of IM3 towards S1	g/m ³ /d	Sed_IM3
IM3S1	resuspension flux IM3 from layer S1	g/m ³ /d	S12TraIM3
IM3S1	burial flux IM3 from layer S1	g/m ³ /d	S12TraIM3
IM3S1	digging flux IM3 to layer S1	g/m ³ /d	S12TraIM3
IM3S1	dredging IM3S1	g/m ³ /d	Dredge
OOCs1	dummy flux to access S1_Comp	-	S1_Comp
OOCs1	mineralisation flux OOCs1	gC/m ³ /d	BMS1_OOC
OOCs1	SWITCH mineralisation flux OOC in layer S1	gC/m ³ /d	BMS1_OOC
OOCs1	mortality algae to OOC in layer S1	gC/m ³ /d	NRAIg_S1
OOCs1	sedimentation flux POC2	gC/m ³ /d	Sed_POC2
OOCs1	sedimentation flux POC3	gC/m ³ /d	Sed_POC3
OOCs1	sedimentation flux POC4	gC/m ³ /d	Sed_POC4
OOCs1	resuspension flux OOC from layer S1	gC/m ³ /d	S12TraOOC
OOCs1	burial flux OOC from layer S1	gC/m ³ /d	S12TraOOC
OOCs1	burial flux OOC from layer S1	gC/m ³ /d	S12TraOOC
OOCs1	digging flux OOC to layer S1	gC/m ³ /d	S12TraOOC
IM1S2	dummy flux to access MakOOCs2	-	MakOOCs2
IM1S2	dummy flux to access S2_Comp	-	S2_Comp
IM1S2	pick-up resuspension flux IM1 from S2	g/m ³ /d	Res_Pickup
IM1S2	sedimentation flux of IM1 towards S2	g/m ³ /d	Sed_IM1
IM1S2	resuspension flux IM1 from layer S2	g/m ³ /d	S12TraIM1
IM1S2	burial flux IM1 from layer S1	g/m ³ /d	S12TraIM1
IM1S2	burial flux IM1 from layer S2	g/m ³ /d	S12TraIM1
IM1S2	digging flux IM1 to layer S1	g/m ³ /d	S12TraIM1
IM1S2	digging flux IM1 to layer S2	g/m ³ /d	S12TraIM1
IM1S2	dredging IM1S2	g/m ³ /d	Dredge
IM2S2	dummy flux to access MakOOCs2	-	MakOOCs2
IM2S2	dummy flux to access S2_Comp	-	S2_Comp
IM2S2	pick-up resuspension flux IM2 from S2	g/m ³ /d	Res_Pickup
IM2S2	sedimentation flux of IM2 towards S2	g/m ³ /d	Sed_IM2
IM2S2	resuspension flux IM2 from layer S2	g/m ³ /d	S12TraIM2
IM2S2	burial flux IM2 from layer S1	g/m ³ /d	S12TraIM2
IM2S2	burial flux IM2 from layer S2	g/m ³ /d	S12TraIM2
IM2S2	digging flux IM2 to layer S1	g/m ³ /d	S12TraIM2
IM2S2	digging flux IM2 to layer S2	g/m ³ /d	S12TraIM2
IM2S2	dredging IM2S2	g/m ³ /d	Dredge
IM3S2	dummy flux to access MakOOCs2	-	MakOOCs2
IM3S2	dummy flux to access S2_Comp	-	S2_Comp
IM3S2	pick-up resuspension flux IM3 from S2	g/m ³ /d	Res_Pickup
IM3S2	sedimentation flux of IM3 towards S2	g/m ³ /d	Sed_IM3
IM3S2	resuspension flux IM3 from layer S2	g/m ³ /d	S12TraIM3
IM3S2	burial flux IM3 from layer S1	g/m ³ /d	S12TraIM3
IM3S2	burial flux IM3 from layer S2	g/m ³ /d	S12TraIM3
IM3S2	digging flux IM3 to layer S1	g/m ³ /d	S12TraIM3
IM3S2	digging flux IM3 to layer S2	g/m ³ /d	S12TraIM3
IM3S2	dredging IM3S2	g/m ³ /d	Dredge
OOCs2	dummy flux to access S2_Comp	-	S2_Comp

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Substance	Description	Unit	Process
OOCs2	mineralisation flux OOCs2	gC/m ³ /d	BMS2_OOC
OOCs2	SWITCH mineralisation flux OOC in layer S2	gC/m ³ /d	BMS2_OOC
OOCs2	resuspension flux OOC from layer S2	gC/m ³ /d	S12TraOOC
OOCs2	burial flux OOC from layer S1	gC/m ³ /d	S12TraOOC
OOCs2	burial flux OOC from layer S2	gC/m ³ /d	S12TraOOC
OOCs2	digging flux OOC to layer S1	gC/m ³ /d	S12TraOOC
OOCs2	digging flux OOC to layer S2	gC/m ³ /d	S12TraOOC
DetCS1	dummy flux to access S1_Comp	-	S1_Comp
DetCS1	mineralisation flux DetCS1	gC/m ³ /d	BMS1_DetC
DetCS1	SWITCH mineralisation flux DetC in layer S1	gC/m ³ /d	BMS1_DetC
DetCS1	mortality algae in layer S1 to DetC	gC/m ³ /d	NRAIg_S1
DetCS1	total sedimentation flux algae	gC/m ³ /d	SedPhBlo_P
DetCS1	sedimentation flux POC1	gC/m ³ /d	Sed_POC1
DetCS1	resuspension flux DetC from layer S1	gC/m ³ /d	S12TraDetC
DetCS1	burial flux DetC from layer S1	gC/m ³ /d	S12TraDetC
DetCS1	burial flux DetC from layer S1	gC/m ³ /d	S12TraDetC
DetCS1	digging flux DetC to layer S1	gC/m ³ /d	S12TraDetC
DetCS1	flux to DetCS1 from grazing	gC/m ³ /d	CONSBL
DetCS1	mortality flux of DEB Mussel to DetCS1	gC/m ³ /d	DEBGRZ_M
DetCS1	grazing of DetCS1 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
DetCS1	mortality flux DEB Zooplankton to DetCS1	gC/m ³ /d	DEBGRZ_Z
DetCS1	grazing of DetCS1 by DEB Zooplankton	gC/m ³ /d	DEBGRZ_Z
DetCS1	mortality flux of DEB Grazer3 to DetCS1	gC/m ³ /d	DEBGRZ_G3
DetCS1	grazing of DetCS1 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
DetCS1	mortality flux of DEB Grazer4 to DetCS1	gC/m ³ /d	DEBGRZ_G4
DetCS1	grazing of DetCS1 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
DetCS1	mortality flux of DEB Grazer5 to DetCS1	gC/m ³ /d	DEBGRZ_G5
DetCS1	grazing of DetCS1 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
DiatS1	dummy flux to access S1_Comp	-	S1_Comp
DiatS1	net primary production of Diatoms in layer S1	gC/m ³ /d	GroMrt_DS1
DiatS1	mortality of Diatoms in layer S1	gC/m ³ /d	GroMrt_DS1
DiatS1	resuspension flux Diatoms from layer S1	gC/m ³ /d	S12TraDiat
DiatS1	burial flux Diatoms from layer S1	gC/m ³ /d	S12TraDiat
DiatS1	burial flux Diatoms from layer S1	gC/m ³ /d	S12TraDiat
DiatS1	digging flux Diatoms to layer S1	gC/m ³ /d	S12TraDiat
GreenS1	dummy flux to access S1_Comp	-	S1_Comp
AAPS1	dummy flux to access S1_Comp	-	S1_Comp
AAPS1	desorption flux AAP layer S1	gP/m ³ /d	Deso_AAPS1
AAPS1	desorption flux AAP from layer S1	gP/m ³ /d	Deso_AAPS1
AAPS1	sedimentation flux AAP towards S1	gP/m ³ /d	Sed_AAP
AAPS1	resuspension flux AAP from layer S1	gP/m ³ /d	S12TraAAP
AAPS1	burial flux AAP from layer S1	gP/m ³ /d	S12TraAAP
AAPS1	digging flux AAP to layer S1	gP/m ³ /d	S12TraAAP
DetNS1	dummy flux to access S1_Comp	-	S1_Comp
DetNS1	mineralisation flux DetNS1	gN/m ³ /d	BMS1_DetN
DetNS1	SWITCH mineralisation flux DetN in layer S1	gN/m ³ /d	BMS1_DetN
DetNS1	mortality algae in layer S1 to DetN	gN/m ³ /d	NRAIg_S1
DetNS1	total sedimentation flux AlgN	gN/m ³ /d	SedPhBlo_P
DetNS1	sedimentation flux PON1	gN/m ³ /d	SedNPOC1
DetNS1	resuspension flux DetN from layer S1	gN/m ³ /d	S12TraDetN
DetNS1	burial flux DetN from layer S1	gN/m ³ /d	S12TraDetN
DetNS1	burial flux DetN from layer S1	gN/m ³ /d	S12TraDetN
DetNS1	digging flux DetN to layer S1	gN/m ³ /d	S12TraDetN
DetNS1	flux to DetNS1 from grazing	gN/m ³ /d	CONSBL
DetNS1	mortality flux of DEB Mussel to DetNS1	gN/m ³ /d	DEBGRZ_M
DetNS1	grazing of DetNS1 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
DetNS1	mortality flux DEB Zooplankton to DetNS1	gN/m ³ /d	DEBGRZ_Z
DetNS1	grazing of DetNS1 by DEB Zooplankton	gC/m ³ /d	DEBGRZ_Z
DetNS1	mortality flux of DEB Grazer3 to DetNS1	gN/m ³ /d	DEBGRZ_G3
DetNS1	grazing of DetNS1 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
DetNS1	mortality flux of DEB Grazer4 to DetNS1	gN/m ³ /d	DEBGRZ_G4
DetNS1	grazing of DetNS1 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
DetNS1	mortality flux of DEB Grazer5 to DetNS1	gN/m ³ /d	DEBGRZ_G5
DetNS1	grazing of DetNS1 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
DetPS1	dummy flux to access S1_Comp	-	S1_Comp
DetPS1	mineralisation flux DetPS1	gP/m ³ /d	BMS1_DetP
DetPS1	SWITCH mineralisation flux DetP in layer S1	gN/m ³ /d	BMS1_DetP
DetPS1	mortality algae in layer S1 to DetP	gP/m ³ /d	NRAIg_S1

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Table 2.1 – continued from previous page

Substance	Description	Unit	Process
DetPS1	total sedimentation flux AlgP	gP/m ³ /d	SedPhBlo_P
DetPS1	sedimentation flux POP1	gP/m ³ /d	SedNPOC1
DetPS1	resuspension flux DetP from layer S1	gP/m ³ /d	S12TraDetP
DetPS1	burial flux DetP from layer S1	gP/m ³ /d	S12TraDetP
DetPS1	burial flux DetP from layer S1	gP/m ³ /d	S12TraDetP
DetPS1	digging flux DetP to layer S1	gP/m ³ /d	S12TraDetP
DetPS1	flux to DetPS1 from grazing	gP/m ³ /d	CONSBL
DetPS1	mortality flux of DEB Mussel to DetPS1	gP/m ³ /d	DEBGRZ_M
DetPS1	grazing of DetPS1 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
DetPS1	mortality flux DEB Zooplankton to DetPS1	gP/m ³ /d	DEBGRZ_Z
DetPS1	grazing of DetPS1 by DEB Zooplankton	gC/m ³ /d	DEBGRZ_Z
DetPS1	mortality flux of DEB Grazer3 to DetPS1	gP/m ³ /d	DEBGRZ_G3
DetPS1	grazing of DetPS1 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
DetPS1	mortality flux of DEB Grazer4 to DetPS1	gP/m ³ /d	DEBGRZ_G4
DetPS1	grazing of DetPS1 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
DetPS1	mortality flux of DEB Grazer5 to DetPS1	gP/m ³ /d	DEBGRZ_G5
DetPS1	grazing of DetPS1 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
DetSiS1	dummy flux to access S1_Comp	-	S1_Comp
DetSiS1	mineralisation flux DetSiS1	gSi/m ³ /d	BMS1_DetSi
DetSiS1	SWITCH mineralisation flux DetSi in layer S1	gSi/m ³ /d	BMS1_DetSi
DetSiS1	mortality algae in layer S1 to DetSi	gSi/m ³ /d	NRAIg_S1
DetSiS1	total sedimentation flux AlgSi	gSi/m ³ /d	SedPhBlo_P
DetSiS1	sedimentation flux of Opal	gSi/m ³ /d	Sed_Opal
DetSiS1	resuspension flux DetSi from layer S1	gSi/m ³ /d	S12TraDetS
DetSiS1	burial flux DetSi from layer S1	gSi/m ³ /d	S12TraDetS
DetSiS1	burial flux DetSi from layer S1	gSi/m ³ /d	S12TraDetS
DetSiS1	digging flux DetS to layer S1	gSi/m ³ /d	S12TraDetS
DetSiS1	flux to DetSiS1 from grazing	gSi/m ³ /d	CONSBL
DetSiS1	grazing of DetSiS1 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
DetSiS1	grazing of DetSiS1 by DEB Zooplankton	gC/m ³ /d	DEBGRZ_Z
DetSiS1	grazing of DetSiS1 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
DetSiS1	grazing of DetSiS1 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
DetSiS1	grazing of DetSiS1 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
OONS1	dummy flux to access S1_Comp	-	S1_Comp
OONS1	mineralisation flux OONS1	gN/m ³ /d	BMS1_OON
OONS1	SWITCH mineralisation flux OON in layer S1	gN/m ³ /d	BMS1_OON
OONS1	mortality algae to OON in layer S1	gN/m ³ /d	NRAIg_S1
OONS1	sedimentation flux PON2	gN/m ³ /d	SedNPOC2
OONS1	sedimentation flux PON3	gN/m ³ /d	SedNPOC3
OONS1	sedimentation flux PON4	gN/m ³ /d	SedNPOC4
OONS1	resuspension flux OON from layer S1	gN/m ³ /d	S12TraOON
OONS1	burial flux OON from layer S1	gN/m ³ /d	S12TraOON
OONS1	burial flux OON from layer S1	gN/m ³ /d	S12TraOON
OONS1	digging flux OON to layer S1	gN/m ³ /d	S12TraOON
OOPS1	mineralisation flux OOPS1	gP/m ³ /d	BMS1_OOP
OOPS1	SWITCH mineralisation flux OOP in layer S1	gP/m ³ /d	BMS1_OOP
OOPS1	mortality algae to OOP in layer S1	gP/m ³ /d	NRAIg_S1
OOPS1	sedimentation flux POP2	gP/m ³ /d	SedNPOC2
OOPS1	sedimentation flux POP3	gP/m ³ /d	SedNPOC3
OOPS1	sedimentation flux POP4	gP/m ³ /d	SedNPOC4
OOPS1	resuspension flux OOP from layer S1	gP/m ³ /d	S12TraOOP
OOPS1	burial flux OOP from layer S1	gP/m ³ /d	S12TraOOP
OOPS1	burial flux OOP from layer S1	gP/m ³ /d	S12TraOOP
OOPS1	digging flux OOP to layer S1	gP/m ³ /d	S12TraOOP
OOSiS1	dummy flux to access S1_Comp	-	S1_Comp
OOSiS1	mineralisation flux OOSiS1	gSi/m ³ /d	BMS1_OOSi
OOSiS1	SWITCH mineralisation flux OOSi in layer S1	gSi/m ³ /d	BMS1_OOSi
OOSiS1	mortality algae to OOSi in layer S1	gSi/m ³ /d	NRAIg_S1
OOSiS1	resuspension flux OOSi from layer S1	gSi/m ³ /d	S12TraOOSi
OOSiS1	burial flux OOSi from layer S1	gSi/m ³ /d	S12TraOOSi
OOSiS1	burial flux OOSi from layer S1	gSi/m ³ /d	S12TraOOSi
OOSiS1	digging flux OOS to layer S1	gSi/m ³ /d	S12TraOOSi
DetCS2	dummy flux to access S2_Comp	-	S2_Comp
DetCS2	mineralisation flux DetCS2	gC/m ³ /d	BMS2_DetC
DetCS2	SWITCH mineralisation flux DetC in layer S2	gC/m ³ /d	BMS2_DetC
DetCS2	resuspension flux DetC from layer S2	gC/m ³ /d	S12TraDetC
DetCS2	burial flux DetC from layer S1	gC/m ³ /d	S12TraDetC
DetCS2	burial flux DetC from layer S2	gC/m ³ /d	S12TraDetC

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Table 2.1 – continued from previous page

Substance	Description	Unit	Process
DetCS2	digging flux DetC to layer S1	gC/m ³ /d	S12TraDetC
DetCS2	digging flux DetC to layer S2	gC/m ³ /d	S12TraDetC
DiatS2	dummy flux to access S2_Comp	-	S2_Comp
DiatS2	resuspension flux Diatoms from layer S2	gC/m ³ /d	S12TraDiat
DiatS2	burial flux Diatoms from layer S1	gC/m ³ /d	S12TraDiat
DiatS2	burial of Diatoms from layer S2	gC/m ³ /d	S12TraDiat
DiatS2	digging flux Diatoms to layer S1	gC/m ³ /d	S12TraDiat
DiatS2	digging flux Diatoms to layer S2	gC/m ³ /d	S12TraDiat
GreenS2	dummy flux to access S2_Comp	-	S2_Comp
AAPS2	dummy flux to access S2_Comp	-	S2_Comp
AAPS2	desorption flux AAP sediment S2	gP/m ³ /d	Deso_AAPS2
AAPS2	desorption flux AAP from layer S2	gP/m ³ /d	Deso_AAPS2
AAPS2	sedimentation flux AAP towards S2	gP/m ³ /d	Sed_AAP
AAPS2	resuspension flux AAP from layer S1	gP/m ³ /d	S12TraAAP
AAPS2	burial flux AAP from layer S1	gP/m ³ /d	S12TraAAP
AAPS2	burial flux AAP from layer S2	gP/m ³ /d	S12TraAAP
AAPS2	digging flux AAP to layer S1	gP/m ³ /d	S12TraAAP
AAPS2	digging flux AAP to layer S2	gP/m ³ /d	S12TraAAP
DetNS2	dummy flux to access S2_Comp	-	S2_Comp
DetNS2	mineralisation flux DetNS2	gN/m ³ /d	BMS2_DetN
DetNS2	SWITCH mineralisation flux DetN in layer S2	gN/m ³ /d	BMS2_DetN
DetNS2	resuspension flux DetN from layer S2	gN/m ³ /d	S12TraDetN
DetNS2	burial flux DetN from layer S1	gN/m ³ /d	S12TraDetN
DetNS2	burial flux DetN from layer S2	gN/m ³ /d	S12TraDetN
DetNS2	digging flux DetN to layer S1	gN/m ³ /d	S12TraDetN
DetNS2	digging flux DetN to layer S2	gN/m ³ /d	S12TraDetN
DetPS2	dummy flux to access S2_Comp	-	S2_Comp
DetPS2	mineralisation flux DetPS2	gP/m ³ /d	BMS2_DetP
DetPS2	SWITCH mineralisation flux DetP in layer S2	gN/m ³ /d	BMS2_DetP
DetPS2	resuspension flux DetP from layer S2	gP/m ³ /d	S12TraDetP
DetPS2	burial flux DetP from layer S1	gP/m ³ /d	S12TraDetP
DetPS2	burial flux DetP from layer S2	gP/m ³ /d	S12TraDetP
DetPS2	digging flux DetP to layer S1	gP/m ³ /d	S12TraDetP
DetPS2	digging flux DetP to layer S2	gP/m ³ /d	S12TraDetP
DetSiS2	dummy flux to access S2_Comp	-	S2_Comp
DetSiS2	mineralisation flux DetSiS2	gSi/m ³ /d	BMS2_DetSi
DetSiS2	SWITCH mineralisation flux DetSi in layer S2	gSi/m ³ /d	BMS2_DetSi
DetSiS2	resuspension flux DetSi from layer S2	gSi/m ³ /d	S12TraDetS
DetSiS2	burial flux DetSi from layer S1	gSi/m ³ /d	S12TraDetS
DetSiS2	burial flux DetSi from layer S2	gSi/m ³ /d	S12TraDetS
DetSiS2	digging flux DetS to layer S1	gSi/m ³ /d	S12TraDetS
DetSiS2	digging flux DetSi to layer S2	gSi/m ³ /d	S12TraDetS
OONS2	dummy flux to access S2_Comp	-	S2_Comp
OONS2	mineralisation flux OONS2	gN/m ³ /d	BMS2_OON
OONS2	SWITCH mineralisation flux OON in layer S2	gN/m ³ /d	BMS2_OON
OONS2	resuspension flux OON from layer S1	gN/m ³ /d	S12TraOON
OONS2	burial flux OON from layer S1	gN/m ³ /d	S12TraOON
OONS2	burial flux OON from layer S2	gN/m ³ /d	S12TraOON
OONS2	digging flux OON to layer S1	gN/m ³ /d	S12TraOON
OONS2	digging flux OON to layer S2	gN/m ³ /d	S12TraOON
OOPS2	mineralisation flux OOPS2	gP/m ³ /d	BMS2_OOP
OOPS2	SWITCH mineralisation flux OOP in layer S2	gP/m ³ /d	BMS2_OOP
OOPS2	resuspension flux OOP from layer S1	gP/m ³ /d	S12TraOOP
OOPS2	burial flux OOP from layer S1	gP/m ³ /d	S12TraOOP
OOPS2	burial flux OOP from layer S2	gP/m ³ /d	S12TraOOP
OOPS2	digging flux OOP to layer S1	gP/m ³ /d	S12TraOOP
OOPS2	digging flux OOP to layer S2	gP/m ³ /d	S12TraOOP
OOSiS2	dummy flux to access S2_Comp	-	S2_Comp
OOSiS2	mineralisation flux OOSiS2	gSi/m ³ /d	BMS2_OOSi
OOSiS2	SWITCH mineralisation flux OOSi in layer S2	gSi/m ³ /d	BMS2_OOSi
OOSiS2	resuspension flux OOSi from layer S1	gSi/m ³ /d	S12TraOOSi
OOSiS2	burial flux OOSi from layer S1	gSi/m ³ /d	S12TraOOSi
OOSiS2	burial flux OOSi from layer S2	gSi/m ³ /d	S12TraOOSi
OOSiS2	digging flux OOS to layer S1	gSi/m ³ /d	S12TraOOSi
OOSiS2	digging flux OOS to layer S2	gSi/m ³ /d	S12TraOOSi
POC5	conversion flux POC5 to POC4	gC/m ³ /d	DecPOC5
POC5	conversion flux POC5 to DOC	gC/m ³ /d	DecPOC5
POC5	mineralisation flux POC5 to CO2	gC/m ³ /d	DecPOC5

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Table 2.1 – continued from previous page

Substance	Description	Unit	Process
POC5	min. flux POC5 to CO2 emersed	gC/m ³ /d	DecPOC5
POC5	dMC1VB01P5	no unit	VB01_Mrt3W
POC5	dMC3VB01P5	no unit	VB01_Mrt3W
POC5	dMC4VB01P5	no unit	VB01_Mrt3S
POC5	dMC1VB02P5	no unit	VB02_Mrt3W
POC5	dMC3VB02P5	no unit	VB02_Mrt3W
POC5	dMC4VB02P5	no unit	VB02_Mrt3S
POC5	dMC1VB03P5	no unit	VB03_Mrt3W
POC5	dMC3VB03P5	no unit	VB03_Mrt3W
POC5	dMC4VB03P5	no unit	VB03_Mrt3S
POC5	dMC1VB04P5	no unit	VB04_Mrt3W
POC5	dMC3VB04P5	no unit	VB04_Mrt3W
POC5	dMC4VB04P5	no unit	VB04_Mrt3S
POC5	dMC1VB05P5	no unit	VB05_Mrt3W
POC5	dMC3VB05P5	no unit	VB05_Mrt3W
POC5	dMC4VB05P5	no unit	VB05_Mrt3S
POC5	dMC1VB06P5	no unit	VB06_Mrt3W
POC5	dMC3VB06P5	no unit	VB06_Mrt3W
POC5	dMC4VB06P5	no unit	VB06_Mrt3S
POC5	dMC1VB07P5	no unit	VB07_Mrt3W
POC5	dMC3VB07P5	no unit	VB07_Mrt3W
POC5	dMC4VB07P5	no unit	VB07_Mrt3S
POC5	dMC1VB08P5	no unit	VB08_Mrt3W
POC5	dMC3VB08P5	no unit	VB08_Mrt3W
POC5	dMC4VB08P5	no unit	VB08_Mrt3S
POC5	dMC1VB09P5	no unit	VB09_Mrt3W
POC5	dMC3VB09P5	no unit	VB09_Mrt3W
POC5	dMC4VB09P5	no unit	VB09_Mrt3S
PON5	conversion flux PON5 to PON4	gN/m ³ /d	DecPOC5
PON5	conversion flux PON5 to DON	gN/m ³ /d	DecPOC5
PON5	mineralisation flux PON5 to NH4	gN/m ³ /d	DecPOC5
PON5	dMN1VB01P5	no unit	VB01_Mrt3W
PON5	dMN3VB01P5	no unit	VB01_Mrt3W
PON5	dMN4VB01P5	no unit	VB01_Mrt3S
PON5	dMN1VB02P5	no unit	VB02_Mrt3W
PON5	dMN3VB02P5	no unit	VB02_Mrt3W
PON5	dMN4VB02P5	no unit	VB02_Mrt3S
PON5	dMN1VB03P5	no unit	VB03_Mrt3W
PON5	dMN3VB03P5	no unit	VB03_Mrt3W
PON5	dMN4VB03P5	no unit	VB03_Mrt3S
PON5	dMN1VB04P5	no unit	VB04_Mrt3W
PON5	dMN3VB04P5	no unit	VB04_Mrt3W
PON5	dMN4VB04P5	no unit	VB04_Mrt3S
PON5	dMN1VB05P5	no unit	VB05_Mrt3W
PON5	dMN3VB05P5	no unit	VB05_Mrt3W
PON5	dMN4VB05P5	no unit	VB05_Mrt3S
PON5	dMN1VB06P5	no unit	VB06_Mrt3W
PON5	dMN3VB06P5	no unit	VB06_Mrt3W
PON5	dMN4VB06P5	no unit	VB06_Mrt3S
PON5	dMN1VB07P5	no unit	VB07_Mrt3W
PON5	dMN3VB07P5	no unit	VB07_Mrt3W
PON5	dMN4VB07P5	no unit	VB07_Mrt3S
PON5	dMN1VB08P5	no unit	VB08_Mrt3W
PON5	dMN3VB08P5	no unit	VB08_Mrt3W
PON5	dMN4VB08P5	no unit	VB08_Mrt3S
PON5	dMN1VB09P5	no unit	VB09_Mrt3W
PON5	dMN3VB09P5	no unit	VB09_Mrt3W
PON5	dMN4VB09P5	no unit	VB09_Mrt3S
POP5	conversion flux POP5 to POP4	gP/m ³ /d	DecPOC5
POP5	conversion flux POP5 to DOP	gP/m ³ /d	DecPOC5
POP5	mineralisation flux POP5 to PO4	gP/m ³ /d	DecPOC5
POP5	dMP1VB01P5	no unit	VB01_Mrt3W
POP5	dMP3VB01P5	no unit	VB01_Mrt3W
POP5	dMP4VB01P5	no unit	VB01_Mrt3S
POP5	dMP1VB02P5	no unit	VB02_Mrt3W
POP5	dMP3VB02P5	no unit	VB02_Mrt3W
POP5	dMP4VB02P5	no unit	VB02_Mrt3S
POP5	dMP1VB03P5	no unit	VB03_Mrt3W
POP5	dMP3VB03P5	no unit	VB03_Mrt3W
POP5	dMP4VB03P5	no unit	VB03_Mrt3S
POP5	dMP1VB04P5	no unit	VB04_Mrt3W

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Substance	Description	Unit	Process
POP5	dMP3VB04P5	no unit	VB04_Mrt3W
POP5	dMP4VB04P5	no unit	VB04_Mrt3S
POP5	dMP1VB05P5	no unit	VB05_Mrt3W
POP5	dMP3VB05P5	no unit	VB05_Mrt3W
POP5	dMP4VB05P5	no unit	VB05_Mrt3S
POP5	dMP1VB06P5	no unit	VB06_Mrt3W
POP5	dMP3VB06P5	no unit	VB06_Mrt3W
POP5	dMP4VB06P5	no unit	VB06_Mrt3S
POP5	dMP1VB07P5	no unit	VB07_Mrt3W
POP5	dMP3VB07P5	no unit	VB07_Mrt3W
POP5	dMP4VB07P5	no unit	VB07_Mrt3S
POP5	dMP1VB08P5	no unit	VB08_Mrt3W
POP5	dMP3VB08P5	no unit	VB08_Mrt3W
POP5	dMP4VB08P5	no unit	VB08_Mrt3S
POP5	dMP1VB09P5	no unit	VB09_Mrt3W
POP5	dMP3VB09P5	no unit	VB09_Mrt3W
POP5	dMP4VB09P5	no unit	VB09_Mrt3S
POS5	conversion flux POS5 to POS4	gS/m ³ /d	DecPOC5
POS5	conversion flux POS5 to DOS	gS/m ³ /d	DecPOC5
POS5	mineralisation flux POS5 to SO4	gS/m ³ /d	DecPOC5
POS5	dMS1VB01P5	no unit	VB01_Mrt3W
POS5	dMS3VB01P5	no unit	VB01_Mrt3W
POS5	dMS4VB01P5	no unit	VB01_Mrt3S
POS5	dMS1VB02P5	no unit	VB02_Mrt3W
POS5	dMS3VB02P5	no unit	VB02_Mrt3W
POS5	dMS4VB02P5	no unit	VB02_Mrt3S
POS5	dMS1VB03P5	no unit	VB03_Mrt3W
POS5	dMS3VB03P5	no unit	VB03_Mrt3W
POS5	dMS4VB03P5	no unit	VB03_Mrt3S
POS5	dMS1VB04P5	no unit	VB04_Mrt3W
POS5	dMS3VB04P5	no unit	VB04_Mrt3W
POS5	dMS4VB04P5	no unit	VB04_Mrt3S
POS5	dMS1VB05P5	no unit	VB05_Mrt3W
POS5	dMS3VB05P5	no unit	VB05_Mrt3W
POS5	dMS4VB05P5	no unit	VB05_Mrt3S
POS5	dMS1VB06P5	no unit	VB06_Mrt3W
POS5	dMS3VB06P5	no unit	VB06_Mrt3W
POS5	dMS4VB06P5	no unit	VB06_Mrt3S
POS5	dMS1VB07P5	no unit	VB07_Mrt3W
POS5	dMS3VB07P5	no unit	VB07_Mrt3W
POS5	dMS4VB07P5	no unit	VB07_Mrt3S
POS5	dMS1VB08P5	no unit	VB08_Mrt3W
POS5	dMS3VB08P5	no unit	VB08_Mrt3W
POS5	dMS4VB08P5	no unit	VB08_Mrt3S
POS5	dMS1VB09P5	no unit	VB09_Mrt3W
POS5	dMS3VB09P5	no unit	VB09_Mrt3W
POS5	dMS4VB09P5	no unit	VB09_Mrt3S
SOD	decay flux of SOD	gO2/m ³ /d	SedOXYDem
SOD	sedimentation flux SOD	gO2/m ³ /d	SED_SOD
Cd-Dis	sorption flux Cd	gCd/m ³ /d	PartWK_Cd
Cd-Par	sorption flux Cd	gCd/m ³ /d	PartWK_Cd
Cd-Par	sedimentation flux Cd towards S1	gCd/m ³ /d	Sed_Cd
Cd-Par	sedimentation flux Cd towards S2	gCd/m ³ /d	Sed_Cd
Cd-Par	atmospheric deposition flux Cd	gCd/m ³ /d	AtmDep_Cd
Cd-Par	diffusive waste flux Cd	gCd/m ³ /d	Dfwast_Cd
Cr-Dis	sorption flux Cr	gCr/m ³ /d	PartWK_Cr
Cr-Par	sorption flux Cr	gCr/m ³ /d	PartWK_Cr
Cr-Par	sedimentation flux Cr towards S1	gCr/m ³ /d	Sed_Cr
Cr-Par	sedimentation flux Cr towards S2	gCr/m ³ /d	Sed_Cr
Cr-Par	atmospheric deposition flux Cr	gCr/m ³ /d	AtmDep_Cr
Cr-Par	diffusive waste flux Cr	gCr/m ³ /d	Dfwast_Cr
Cu-Dis	sorption flux Cu	gCu/m ³ /d	PartWK_Cu
Cu-Par	sorption flux Cu	gCu/m ³ /d	PartWK_Cu
Cu-Par	sedimentation flux Cu towards S1	gCu/m ³ /d	Sed_Cu
Cu-Par	sedimentation flux Cu towards S2	gCu/m ³ /d	Sed_Cu
Cu-Par	atmospheric deposition flux Cu	gCu/m ³ /d	AtmDep_Cu
Cu-Par	diffusive waste flux Cu	gCu/m ³ /d	Dfwast_Cu
Hg-Dis	sorption flux Hg	gHg/m ³ /d	PartWK_Hg
Hg-Par	sorption flux Hg	gHg/m ³ /d	PartWK_Hg
Hg-Par	sedimentation flux Hg towards S1	gHg/m ³ /d	Sed_Hg

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Substance	Description	Unit	Process
Hg-Par	sedimentation flux Hg towards S2	gHg/m ³ /d	Sed_Hg
Hg-Par	atmospheric deposition flux Hg	gHg/m ³ /d	AtmDep_Hg
Hg-Par	diffusive waste flux Hg	gHg/m ³ /d	Dfwast_Hg
Ni-Dis	sorption flux Ni	gNi/m ³ /d	PartWK_Ni
Ni-Par	sorption flux Ni	gNi/m ³ /d	PartWK_Ni
Ni-Par	sedimentation flux Ni towards S1	gNi/m ³ /d	Sed_Ni
Ni-Par	sedimentation flux Ni towards S2	gNi/m ³ /d	Sed_Ni
Ni-Par	atmospheric deposition flux Ni	gNi/m ³ /d	AtmDep_Ni
Ni-Par	diffusive waste flux Ni	gNi/m ³ /d	Dfwast_Ni
Pb-Dis	sorption flux Pb	gPb/m ³ /d	PartWK_Pb
Pb-Par	sorption flux Pb	gPb/m ³ /d	PartWK_Pb
Pb-Par	sedimentation flux Pb towards S1	gPb/m ³ /d	Sed_Pb
Pb-Par	sedimentation flux Pb towards S2	gPb/m ³ /d	Sed_Pb
Pb-Par	atmospheric deposition flux Pb	gPb/m ³ /d	AtmDep_Pb
Pb-Par	diffusive waste flux Pb	gPb/m ³ /d	Dfwast_Pb
As-Dis	sorption flux As	gAs/m ³ /d	PartWK_As
As-Par	sorption flux As	gAs/m ³ /d	PartWK_As
As-Par	sedimentation flux As towards S1	gAs/m ³ /d	Sed_As
As-Par	sedimentation flux As towards S2	gAs/m ³ /d	Sed_As
As-Par	atmospheric deposition flux As	gAs/m ³ /d	AtmDep_As
As-Par	diffusive waste flux As	gAs/m ³ /d	Dfwast_As
Va-Dis	sorption flux Va	gVa/m ³ /d	PartWK_Va
Va-Par	sorption flux Va	gVa/m ³ /d	PartWK_Va
Va-Par	sedimentation flux Va towards S1	gVa/m ³ /d	Sed_Va
Va-Par	sedimentation flux Va towards S2	gVa/m ³ /d	Sed_Va
Va-Par	atmospheric deposition flux Va	gVa/m ³ /d	AtmDep_Va
Va-Par	diffusive waste flux Va	gVa/m ³ /d	Dfwast_Va
Zn-Dis	sorption flux Zn	gZn/m ³ /d	PartWK_Zn
Zn-Par	sorption flux Zn	gZn/m ³ /d	PartWK_Zn
Zn-Par	sedimentation flux Zn towards S1	gZn/m ³ /d	Sed_Zn
Zn-Par	sedimentation flux Zn towards S2	gZn/m ³ /d	Sed_Zn
Zn-Par	atmospheric deposition flux Zn	gZn/m ³ /d	AtmDep_Zn
Zn-Par	diffusive waste flux Zn	gZn/m ³ /d	Dfwast_Zn
CdS1	sedimentation flux Cd towards S1	gCd/m ³ /d	Sed_Cd
CdS1	resuspension flux Cd from layer S1	gCd/m ³ /d	S12TraCd
CdS1	burial flux Cd from layer S1	gCd/m ³ /d	S12TraCd
CdS1	digging flux Cd to layer S1	gCd/m ³ /d	S12TraCd
CdS1-Dis	sorption flux Cd in layer S1	gCd/m ³ /d	PartS1_Cd
CdS1-Par	sorption flux Cd in layer S1	gCd/m ³ /d	PartS1_Cd
CdS1-Par	sedimentation flux Cd towards S1	gCd/m ³ /d	Sed_Cd
CrS1	sedimentation flux Cr towards S1	gCr/m ³ /d	Sed_Cr
CrS1	resuspension flux Cr from layer S1	gCr/m ³ /d	S12TraCr
CrS1	burial flux Cr from layer S1	gCr/m ³ /d	S12TraCr
CrS1	digging flux Cr to layer S1	gCr/m ³ /d	S12TraCr
CrS1-Dis	sorption flux Cr in layer S1	gCr/m ³ /d	PartS1_Cr
CrS1-Par	sorption flux Cr in layer S1	gCr/m ³ /d	PartS1_Cr
CrS1-Par	sedimentation flux Cr towards S1	gCr/m ³ /d	Sed_Cr
CuS1	sedimentation flux Cu towards S1	gCu/m ³ /d	Sed_Cu
CuS1	resuspension flux Cu from layer S1	gCu/m ³ /d	S12TraCu
CuS1	burial flux Cu from layer S1	gCu/m ³ /d	S12TraCu
CuS1	digging flux Cu to layer S1	gCu/m ³ /d	S12TraCu
CuS1-Dis	sorption flux Cu in layer S1	gCu/m ³ /d	PartS1_Cu
CuS1-Par	sorption flux Cu in layer S1	gCu/m ³ /d	PartS1_Cu
CuS1-Par	sedimentation flux Cu towards S1	gCu/m ³ /d	Sed_Cu
HgS1	sedimentation flux Hg towards S1	gHg/m ³ /d	Sed_Hg
HgS1	resuspension flux Hg from layer S1	gHg/m ³ /d	S12TraHg
HgS1	burial flux Hg from layer S1	gHg/m ³ /d	S12TraHg
HgS1	digging flux Hg to layer S1	gHg/m ³ /d	S12TraHg
HgS1-Dis	sorption flux Hg in layer S1	gHg/m ³ /d	PartS1_Hg
HgS1-Par	sorption flux Hg in layer S1	gHg/m ³ /d	PartS1_Hg
HgS1-Par	sedimentation flux Hg towards S1	gHg/m ³ /d	Sed_Hg
NiS1	sedimentation flux Ni towards S1	gNi/m ³ /d	Sed_Ni
NiS1	resuspension flux Ni from layer S1	gNi/m ³ /d	S12TraNi
NiS1	burial flux Ni from layer S1	gNi/m ³ /d	S12TraNi
NiS1	digging flux Ni to layer S1	gNi/m ³ /d	S12TraNi
NiS1-Dis	sorption flux Ni in layer S1	gNi/m ³ /d	PartS1_Ni
NiS1-Par	sorption flux Ni in layer S1	gNi/m ³ /d	PartS1_Ni
NiS1-Par	sedimentation flux Ni towards S1	gNi/m ³ /d	Sed_Ni

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Table 2.1 – continued from previous page

Substance	Description	Unit	Process
PbS1	sedimentation flux Pb towards S1	gPb/m ³ /d	Sed_Pb
PbS1	resuspension flux Pb from layer S1	gPb/m ³ /d	S12TraPb
PbS1	burial flux Pb from layer S1	gPb/m ³ /d	S12TraPb
PbS1	digging flux Pb to layer S1	gPb/m ³ /d	S12TraPb
PbS1-Dis	sorption flux Pb in layer S1	gPb/m ³ /d	PartS1_Pb
PbS1-Par	sorption flux Pb in layer S1	gPb/m ³ /d	PartS1_Pb
PbS1-Par	sedimentation flux Pb towards S1	gPb/m ³ /d	Sed_Pb
AsS1	sedimentation flux As towards S1	gAs/m ³ /d	Sed_As
AsS1	resuspension flux As from layer S1	gAs/m ³ /d	S12TraAs
AsS1	burial flux As from layer S1	gAs/m ³ /d	S12TraAs
AsS1	digging flux As to layer S1	gAs/m ³ /d	S12TraAs
AsS1-Dis	sorption flux As in layer S1	gAs/m ³ /d	PartS1_As
AsS1-Par	sorption flux As in layer S1	gAs/m ³ /d	PartS1_As
AsS1-Par	sedimentation flux As towards S1	gAs/m ³ /d	Sed_As
VaS1	sedimentation flux Va towards S1	gVa/m ³ /d	Sed_Va
VaS1	resuspension flux Va from layer S1	gVa/m ³ /d	S12TraVa
VaS1	burial flux Va from layer S1	gVa/m ³ /d	S12TraVa
VaS1	digging flux Va to layer S1	gVa/m ³ /d	S12TraVa
VaS1-Dis	sorption flux Va in layer S1	gVa/m ³ /d	PartS1_Va
VaS1-Par	sorption flux Va in layer S1	gVa/m ³ /d	PartS1_Va
VaS1-Par	sedimentation flux Va towards S1	gVa/m ³ /d	Sed_Va
ZnS1	sedimentation flux Zn towards S1	gZn/m ³ /d	Sed_Zn
ZnS1	resuspension flux Zn from layer S1	gZn/m ³ /d	S12TraZn
ZnS1	burial flux Zn from layer S1	gZn/m ³ /d	S12TraZn
ZnS1	digging flux Zn to layer S1	gZn/m ³ /d	S12TraZn
ZnS1-Dis	sorption flux Zn in layer S1	gZn/m ³ /d	PartS1_Zn
ZnS1-Par	sorption flux Zn in layer S1	gZn/m ³ /d	PartS1_Zn
ZnS1-Par	sedimentation flux Zn towards S1	gZn/m ³ /d	Sed_Zn
CdS2	sedimentation flux Cd towards S2	gCd/m ³ /d	Sed_Cd
CdS2	resuspension flux Cd from layer S2	gCd/m ³ /d	S12TraCd
CdS2	burial flux Cd from layer S1	gCd/m ³ /d	S12TraCd
CdS2	burial flux Cd from layer S2	gCd/m ³ /d	S12TraCd
CdS2	digging flux Cd to layer S1	gCd/m ³ /d	S12TraCd
CdS2	digging flux Cd to layer S2	gCd/m ³ /d	S12TraCd
CdS2-Dis	sorption flux Cd in layer S2	gCd/m ³ /d	PartS2_Cd
CdS2-Par	sorption flux Cd in layer S2	gCd/m ³ /d	PartS2_Cd
CdS2-Par	sedimentation flux Cd towards S2	gCd/m ³ /d	Sed_Cd
CrS2	sedimentation flux Cr towards S2	gCr/m ³ /d	Sed_Cr
CrS2	resuspension flux Cr from layer S2	gCr/m ³ /d	S12TraCr
CrS2	burial flux Cr from layer S1	gCr/m ³ /d	S12TraCr
CrS2	burial flux Cr from layer S2	gCr/m ³ /d	S12TraCr
CrS2	digging flux Cr to layer S1	gCr/m ³ /d	S12TraCr
CrS2	digging flux Cr to layer S2	gCr/m ³ /d	S12TraCr
CrS2-Dis	sorption flux Cr in layer S2	gCr/m ³ /d	PartS2_Cr
CrS2-Par	sorption flux Cr in layer S2	gCr/m ³ /d	PartS2_Cr
CrS2-Par	sedimentation flux Cr towards S2	gCr/m ³ /d	Sed_Cr
CuS2	sedimentation flux Cu towards S2	gCu/m ³ /d	Sed_Cu
CuS2	resuspension flux Cu from layer S2	gCu/m ³ /d	S12TraCu
CuS2	burial flux Cu from layer S1	gCu/m ³ /d	S12TraCu
CuS2	burial flux Cu from layer S2	gCu/m ³ /d	S12TraCu
CuS2	digging flux Cu to layer S1	gCu/m ³ /d	S12TraCu
CuS2	digging flux Cu to layer S2	gCu/m ³ /d	S12TraCu
CuS2-Dis	sorption flux Cu in layer S2	gCu/m ³ /d	PartS2_Cu
CuS2-Par	sorption flux Cu in layer S2	gCu/m ³ /d	PartS2_Cu
CuS2-Par	sedimentation flux Cu towards S2	gCu/m ³ /d	Sed_Cu
HgS2	sedimentation flux Hg towards S2	gHg/m ³ /d	Sed_Hg
HgS2	resuspension flux Hg from layer S2	gHg/m ³ /d	S12TraHg
HgS2	burial flux Hg from layer S1	gHg/m ³ /d	S12TraHg
HgS2	burial flux Hg from layer S2	gHg/m ³ /d	S12TraHg
HgS2	digging flux Hg to layer S1	gHg/m ³ /d	S12TraHg
HgS2	digging flux Hg to layer S2	gHg/m ³ /d	S12TraHg
HgS2-Dis	sorption flux Hg in layer S2	gHg/m ³ /d	PartS2_Hg
HgS2-Par	sorption flux Hg in layer S2	gHg/m ³ /d	PartS2_Hg
HgS2-Par	sedimentation flux Hg towards S2	gHg/m ³ /d	Sed_Hg
NiS2	sedimentation flux Ni towards S2	gNi/m ³ /d	Sed_Ni
NiS2	resuspension flux Ni from layer S2	gNi/m ³ /d	S12TraNi
NiS2	burial flux Ni from layer S1	gNi/m ³ /d	S12TraNi
NiS2	burial flux Ni from layer S2	gNi/m ³ /d	S12TraNi

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Table 2.1 – continued from previous page

Substance	Description	Unit	Process
NiS2	digging flux Ni to layer S1	gNi/m ³ /d	S12TraNi
NiS2	digging flux Ni to layer S2	gNi/m ³ /d	S12TraNi
NiS2-Dis	sorption flux Ni in layer S2	gNi/m ³ /d	PartS2_Ni
NiS2-Par	sorption flux Ni in layer S2	gNi/m ³ /d	PartS2_Ni
NiS2-Par	sedimentation flux Ni towards S2	gNi/m ³ /d	Sed_Ni
PbS2	sedimentation flux Pb towards S2	gPb/m ³ /d	Sed_Pb
PbS2	resuspension flux Pb from layer S2	gPb/m ³ /d	S12TraPb
PbS2	burial flux Pb from layer S1	gPb/m ³ /d	S12TraPb
PbS2	burial flux Pb from layer S2	gPb/m ³ /d	S12TraPb
PbS2	digging flux Pb to layer S1	gPb/m ³ /d	S12TraPb
PbS2	digging flux Pb to layer S2	gPb/m ³ /d	S12TraPb
PbS2-Dis	sorption flux Pb in layer S2	gPb/m ³ /d	PartS2_Pb
PbS2-Par	sorption flux Pb in layer S2	gPb/m ³ /d	PartS2_Pb
PbS2-Par	sedimentation flux Pb towards S2	gPb/m ³ /d	Sed_Pb
AsS2	sedimentation flux As towards S2	gAs/m ³ /d	Sed_As
AsS2	resuspension flux As from layer S2	gAs/m ³ /d	S12TraAs
AsS2	burial flux As from layer S1	gAs/m ³ /d	S12TraAs
AsS2	burial flux As from layer S2	gAs/m ³ /d	S12TraAs
AsS2	digging flux As to layer S1	gAs/m ³ /d	S12TraAs
AsS2	digging flux As to layer S2	gAs/m ³ /d	S12TraAs
AsS2-Dis	sorption flux As in layer S2	gAs/m ³ /d	PartS2_As
AsS2-Par	sorption flux As in layer S2	gAs/m ³ /d	PartS2_As
AsS2-Par	sedimentation flux As towards S2	gAs/m ³ /d	Sed_As
VaS2	sedimentation flux Va towards S2	gVa/m ³ /d	Sed_Va
VaS2	resuspension flux Va from layer S2	gVa/m ³ /d	S12TraVa
VaS2	burial flux Va from layer S1	gVa/m ³ /d	S12TraVa
VaS2	burial flux Va from layer S2	gVa/m ³ /d	S12TraVa
VaS2	digging flux Va to layer S1	gVa/m ³ /d	S12TraVa
VaS2	digging flux Va to layer S2	gVa/m ³ /d	S12TraVa
VaS2-Dis	sorption flux Va in layer S2	gVa/m ³ /d	PartS2_Va
VaS2-Par	sorption flux Va in layer S2	gVa/m ³ /d	PartS2_Va
VaS2-Par	sedimentation flux Va towards S2	gVa/m ³ /d	Sed_Va
ZnS2	sedimentation flux Zn towards S2	gZn/m ³ /d	Sed_Zn
ZnS2	resuspension flux Zn from layer S2	gZn/m ³ /d	S12TraZn
ZnS2	burial flux Zn from layer S1	gZn/m ³ /d	S12TraZn
ZnS2	burial flux Zn from layer S2	gZn/m ³ /d	S12TraZn
ZnS2	digging flux Zn to layer S1	gZn/m ³ /d	S12TraZn
ZnS2	digging flux Zn to layer S2	gZn/m ³ /d	S12TraZn
ZnS2-Dis	sorption flux Zn in layer S2	gZn/m ³ /d	PartS2_Zn
ZnS2-Par	sorption flux Zn in layer S2	gZn/m ³ /d	PartS2_Zn
ZnS2-Par	sedimentation flux Zn towards S2	gZn/m ³ /d	Sed_Zn
153S1	overall loss flux 153 in layer S1	g/m ³ /d	Los_S1_153
153S1	sedimentation flux 153	g153/m ³ /d	Sed_153
153S1	resuspension flux 153 from layer S1	g153/m ³ /d	S12Tra153
153S1	burial flux 153 from layer S1	g153/m ³ /d	S12Tra153
153S1	digging flux 153 to layer S1	g153/m ³ /d	S12Tra153
153S1-Dis	sorption flux 153 in layer S1	g153/m ³ /d	PartS1_153
153S1-Par	sorption flux 153 in layer S1	g153/m ³ /d	PartS1_153
153S1-Par	sedimentation flux 153	g153/m ³ /d	Sed_153
AtrS1	overall loss flux Atrazine in layer S1	g/m ³ /d	Los_S1_Atr
AtrS1	sedimentation flux Atrazine	gAtr/m ³ /d	Sed_Atr
AtrS1	resuspension flux Atr from layer S1	gAtr/m ³ /d	S12TraAtr
AtrS1	burial flux Atr from layer S1	gAtr/m ³ /d	S12TraAtr
AtrS1	digging flux Atr to layer S1	gAtr/m ³ /d	S12TraAtr
AtrS1-Dis	sorption flux Atrazine in layer S1	gAtr/m ³ /d	PartS1_Atr
AtrS1-Par	sorption flux Atrazine in layer S1	gAtr/m ³ /d	PartS1_Atr
AtrS1-Par	sedimentation flux Atrazine	gAtr/m ³ /d	Sed_Atr
BaPS1	overall loss flux BaP in layer S1	g/m ³ /d	Los_S1_BaP
BaPS1	sedimentation flux BaP	gBaP/m ³ /d	Sed_BaP
BaPS1	resuspension flux BaP from layer S1	gBaP/m ³ /d	S12TraBaP
BaPS1	burial flux BaP from layer S1	gBaP/m ³ /d	S12TraBaP
BaPS1	digging flux BaP to layer S1	gBaP/m ³ /d	S12TraBaP
BaPS1-Dis	sorption flux BaP in layer S1	gBaP/m ³ /d	PartS1_BaP
BaPS1-Par	sorption flux BaP in layer S1	gBaP/m ³ /d	PartS1_BaP
BaPS1-Par	sedimentation flux BaP	gBaP/m ³ /d	Sed_BaP
DiuS1	overall loss flux Diu in layer S1	g/m ³ /d	Los_S1_Diu
DiuS1	sedimentation flux Diu	gDiu/m ³ /d	Sed_Diu
DiuS1	resuspension flux Diu from layer S1	gDiu/m ³ /d	S12TraDiu

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Table 2.1 – continued from previous page

Substance	Description	Unit	Process
DiuS1	burial flux Diu from layer S1	gDiu/m ³ /d	S12TraDiu
DiuS1	digging flux Diu to layer S1	gDiu/m ³ /d	S12TraDiu
DiuS1-Dis	sorption flux Diu in layer S1	gDiu/m ³ /d	PartS1_Diu
DiuS1-Par	sorption flux Diu in layer S1	gDiu/m ³ /d	PartS1_Diu
DiuS1-Par	sedimentation flux Diu	gDiu/m ³ /d	Sed_Diu
FluS1	overall loss flux Flu in layer S1	g/m ³ /d	Los_S1_Flu
FluS1	sedimentation flux Flu	gFlu/m ³ /d	Sed_Flu
FluS1	resuspension flux Flu from layer S1	gFlu/m ³ /d	S12TraFlu
FluS1	burial flux Flu from layer S1	gFlu/m ³ /d	S12TraFlu
FluS1	digging flux Flu to layer S1	gFlu/m ³ /d	S12TraFlu
FluS1-Dis	sorption flux Flu in layer S1	gFlu/m ³ /d	PartS1_Flu
FluS1-Par	sorption flux Flu in layer S1	gFlu/m ³ /d	PartS1_Flu
FluS1-Par	sedimentation flux Flu	gFlu/m ³ /d	Sed_Flu
HCBS1	overall loss flux HCB in layer S1	g/m ³ /d	Los_S1_HCB
HCBS1	sedimentation flux HCB	gHCB/m ³ /d	Sed_HCB
HCBS1	resuspension flux HCB from layer S1	gHCB/m ³ /d	S12TraHCB
HCBS1	burial flux HCB from layer S1	gHCB/m ³ /d	S12TraHCB
HCBS1	digging flux HCB to layer S1	gHCB/m ³ /d	S12TraHCB
HCBS1-Dis	sorption flux HCB in layer S1	gHCB/m ³ /d	PartS1_HCB
HCBS1-Par	sorption flux HCB in layer S1	gHCB/m ³ /d	PartS1_HCB
HCBS1-Par	sedimentation flux HCB	gHCB/m ³ /d	Sed_HCB
HCHS1	overall loss flux HCH in layer S1	g/m ³ /d	Los_S1_HCH
HCHS1	sedimentation flux HCH	gHCH/m ³ /d	Sed_HCH
HCHS1	resuspension flux HCH from layer S1	gHCH/m ³ /d	S12TraHCH
HCHS1	burial flux HCH from layer S1	gHCH/m ³ /d	S12TraHCH
HCHS1	digging flux HCH to layer S1	gHCH/m ³ /d	S12TraHCH
HCHS1-Dis	sorption flux HCH in layer S1	gHCH/m ³ /d	PartS1_HCH
HCHS1-Par	sorption flux HCH in layer S1	gHCH/m ³ /d	PartS1_HCH
HCHS1-Par	sedimentation flux HCH	gHCH/m ³ /d	Sed_HCH
MefS1	overall loss flux Mef in layer S1	g/m ³ /d	Los_S1_Mef
MefS1	sedimentation flux Mef	gMef/m ³ /d	Sed_Mef
MefS1	resuspension flux Mef from layer S1	gMef/m ³ /d	S12TraMef
MefS1	burial flux Mef from layer S1	gMef/m ³ /d	S12TraMef
MefS1	digging flux Mef to layer S1	gMef/m ³ /d	S12TraMef
MefS1-Dis	sorption flux Mef in layer S1	gMef/m ³ /d	PartS1_Mef
MefS1-Par	sorption flux Mef in layer S1	gMef/m ³ /d	PartS1_Mef
MefS1-Par	sedimentation flux Mef	gMef/m ³ /d	Sed_Mef
153S2	overall loss flux 153 in layer S2	g/m ³ /d	Los_S2_153
153S2	resuspension flux 153 from layer S2	g153/m ³ /d	S12Tra153
153S2	burial flux 153 from layer S1	g153/m ³ /d	S12Tra153
153S2	burial flux 153 from layer S2	g153/m ³ /d	S12Tra153
153S2	digging flux 153 to layer S1	g153/m ³ /d	S12Tra153
153S2	digging flux 153 to layer S2	g153/m ³ /d	S12Tra153
153S2-Dis	sorption flux 153 in layer S2	g153/m ³ /d	PartS2_153
153S2-Par	sorption flux 153 in layer S2	g153/m ³ /d	PartS2_153
AtrS2	overall loss flux Atrazine in layer S2	g/m ³ /d	Los_S2_Atr
AtrS2	resuspension flux Atr from layer S2	gAtr/m ³ /d	S12TraAtr
AtrS2	burial flux Atr from layer S1	gAtr/m ³ /d	S12TraAtr
AtrS2	burial flux Atr from layer S2	gAtr/m ³ /d	S12TraAtr
AtrS2	digging flux Atr to layer S1	gAtr/m ³ /d	S12TraAtr
AtrS2	digging flux Atr to layer S2	gAtr/m ³ /d	S12TraAtr
AtrS2-Dis	sorption flux Atrazine in layer S2	gAtr/m ³ /d	PartS2_Atr
AtrS2-Par	sorption flux Atrazine in layer S2	gAtr/m ³ /d	PartS2_Atr
BaPS2	overall loss flux BaP in layer S2	g/m ³ /d	Los_S2_BaP
BaPS2	resuspension flux BaP from layer S2	gBaP/m ³ /d	S12TraBaP
BaPS2	burial flux BaP from layer S1	gBaP/m ³ /d	S12TraBaP
BaPS2	burial flux BaP from layer S2	gBaP/m ³ /d	S12TraBaP
BaPS2	digging flux BaP to layer S1	gBaP/m ³ /d	S12TraBaP
BaPS2	digging flux BaP to layer S2	gBaP/m ³ /d	S12TraBaP
BaPS2-Dis	sorption flux BaP in layer S2	gBaP/m ³ /d	PartS2_BaP
BaPS2-Par	sorption flux BaP in layer S2	gBaP/m ³ /d	PartS2_BaP
DiuS2	overall loss flux Diu in layer S2	g/m ³ /d	Los_S2_Diu
DiuS2	resuspension flux Diu from layer S2	gDiu/m ³ /d	S12TraDiu
DiuS2	burial flux Diu from layer S1	gDiu/m ³ /d	S12TraDiu
DiuS2	burial flux Diu from layer S2	gDiu/m ³ /d	S12TraDiu
DiuS2	digging flux Diu to layer S1	gDiu/m ³ /d	S12TraDiu
DiuS2	digging flux Diu to layer S2	gDiu/m ³ /d	S12TraDiu
DiuS2-Dis	sorption flux Diu in layer S2	gDiu/m ³ /d	PartS2_Diu

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Table 2.1 – continued from previous page

Substance	Description	Unit	Process
DiuS2-Par	sorption flux Diu in layer S2	$\text{gDiu/m}^3/\text{d}$	PartS2_Diu
FluS2	overall loss flux Flu in layer S2	$\text{g/m}^3/\text{d}$	Los_S2_Flu
FluS2	resuspension flux Flu from layer S2	$\text{gFlu/m}^3/\text{d}$	S12TraFlu
FluS2	burial flux Flu from layer S1	$\text{gFlu/m}^3/\text{d}$	S12TraFlu
FluS2	burial flux Flu from layer S2	$\text{gFlu/m}^3/\text{d}$	S12TraFlu
FluS2	digging flux Flu to layer S1	$\text{gFlu/m}^3/\text{d}$	S12TraFlu
FluS2	digging flux Flu to layer S2	$\text{gFlu/m}^3/\text{d}$	S12TraFlu
FluS2-Dis	sorption flux Flu in layer S2	$\text{gFlu/m}^3/\text{d}$	PartS2_Flu
FluS2-Par	sorption flux Flu in layer S2	$\text{gFlu/m}^3/\text{d}$	PartS2_Flu
HCBs2	overall loss flux HCB in layer S2	$\text{g/m}^3/\text{d}$	Los_S2_HCB
HCBs2	resuspension flux HCB from layer S2	$\text{gHCB/m}^3/\text{d}$	S12TraHCB
HCBs2	burial flux HCB from layer S1	$\text{gHCB/m}^3/\text{d}$	S12TraHCB
HCBs2	burial flux HCB from layer S2	$\text{gHCB/m}^3/\text{d}$	S12TraHCB
HCBs2	digging flux HCB to layer S1	$\text{gHCB/m}^3/\text{d}$	S12TraHCB
HCBs2	digging flux HCB to layer S2	$\text{gHCB/m}^3/\text{d}$	S12TraHCB
HCBs2-Dis	sorption flux HCB in layer S2	$\text{gHCB/m}^3/\text{d}$	PartS2_HCB
HCBs2-Par	sorption flux HCB in layer S2	$\text{gHCB/m}^3/\text{d}$	PartS2_HCB
HCHS2	overall loss flux HCH in layer S2	$\text{g/m}^3/\text{d}$	Los_S2_HCH
HCHS2	resuspension flux HCH from layer S2	$\text{gHCH/m}^3/\text{d}$	S12TraHCH
HCHS2	burial flux HCH from layer S1	$\text{gHCH/m}^3/\text{d}$	S12TraHCH
HCHS2	burial flux HCH from layer S2	$\text{gHCH/m}^3/\text{d}$	S12TraHCH
HCHS2	digging flux HCH to layer S1	$\text{gHCH/m}^3/\text{d}$	S12TraHCH
HCHS2	digging flux HCH to layer S2	$\text{gHCH/m}^3/\text{d}$	S12TraHCH
HCHS2-Dis	sorption flux HCH in layer S2	$\text{gHCH/m}^3/\text{d}$	PartS2_HCH
HCHS2-Par	sorption flux HCH in layer S2	$\text{gHCH/m}^3/\text{d}$	PartS2_HCH
MefS2	overall loss flux Mef in layer S2	$\text{g/m}^3/\text{d}$	Los_S2_Mef
MefS2	resuspension flux Mef from layer S2	$\text{gMef/m}^3/\text{d}$	S12TraMef
MefS2	burial flux Mef from layer S1	$\text{gMef/m}^3/\text{d}$	S12TraMef
MefS2	burial flux Mef from layer S2	$\text{gMef/m}^3/\text{d}$	S12TraMef
MefS2	digging flux Mef to layer S1	$\text{gMef/m}^3/\text{d}$	S12TraMef
MefS2	digging flux Mef to layer S2	$\text{gMef/m}^3/\text{d}$	S12TraMef
MefS2-Dis	sorption flux Mef in layer S2	$\text{gMef/m}^3/\text{d}$	PartS2_Mef
MefS2-Par	sorption flux Mef in layer S2	$\text{gMef/m}^3/\text{d}$	PartS2_Mef
153-dis	sorption flux 153	$\text{g153/m}^3/\text{d}$	PartWK_153
153-dis	volatilisation flux 153	$\text{g153/m}^3/\text{d}$	Volat_153
153-par	sorption flux 153	$\text{g153/m}^3/\text{d}$	PartWK_153
153-par	sedimentation flux 153	$\text{g153/m}^3/\text{d}$	Sed_153
153-par	atmospheric deposition flux 153	$\text{g153/m}^3/\text{d}$	AtmDep_153
153-par	diffusive waste flux 153	$\text{g153/m}^3/\text{d}$	Dfwast_153
Atr-dis	sorption flux Atrazine	$\text{gAtr/m}^3/\text{d}$	PartWK_Atr
Atr-dis	volatilisation flux Atrazine	$\text{gAtr/m}^3/\text{d}$	Volat_Atr
Atr-par	sorption flux Atrazine	$\text{gAtr/m}^3/\text{d}$	PartWK_Atr
Atr-par	sedimentation flux Atrazine	$\text{gAtr/m}^3/\text{d}$	Sed_Atr
Atr-par	atmospheric deposition flux Atrazine	$\text{gAtr/m}^3/\text{d}$	AtmDep_Atr
Atr-par	diffusive waste flux Atrazine	$\text{gAtr/m}^3/\text{d}$	Dfwast_Atr
BaP-dis	sorption flux BaP	$\text{gBaP/m}^3/\text{d}$	PartWK_BaP
BaP-dis	volatilisation flux BaP	$\text{gBaP/m}^3/\text{d}$	Volat_BaP
BaP-par	sorption flux BaP	$\text{gBaP/m}^3/\text{d}$	PartWK_BaP
BaP-par	sedimentation flux BaP	$\text{gBaP/m}^3/\text{d}$	Sed_BaP
BaP-par	atmospheric deposition flux BaP	$\text{gBaP/m}^3/\text{d}$	AtmDep_BaP
BaP-par	diffusive waste flux BaP	$\text{gBaP/m}^3/\text{d}$	Dfwast_BaP
Diu-dis	sorption flux Diu	$\text{gDiu/m}^3/\text{d}$	PartWK_Diu
Diu-dis	volatilisation flux Diu	$\text{gDiu/m}^3/\text{d}$	Volat_Diu
Diu-par	sorption flux Diu	$\text{gDiu/m}^3/\text{d}$	PartWK_Diu
Diu-par	sedimentation flux Diu	$\text{gDiu/m}^3/\text{d}$	Sed_Diu
Diu-par	atmospheric deposition flux Diu	$\text{gDiu/m}^3/\text{d}$	AtmDep_Diu
Diu-par	diffusive waste flux Diu	$\text{gDiu/m}^3/\text{d}$	Dfwast_Diu
Flu-dis	sorption flux Flu	$\text{gFlu/m}^3/\text{d}$	PartWK_Flu
Flu-dis	volatilisation flux Flu	$\text{gFlu/m}^3/\text{d}$	Volat_Flu
Flu-par	sorption flux Flu	$\text{gFlu/m}^3/\text{d}$	PartWK_Flu
Flu-par	sedimentation flux Flu	$\text{gFlu/m}^3/\text{d}$	Sed_Flu
Flu-par	atmospheric deposition flux Flu	$\text{gFlu/m}^3/\text{d}$	AtmDep_Flu
Flu-par	diffusive waste flux Flu	$\text{gFlu/m}^3/\text{d}$	Dfwast_Flu
HCB-dis	sorption flux HCB	$\text{gHCB/m}^3/\text{d}$	PartWK_HCB
HCB-dis	volatilisation flux HCB	$\text{gHCB/m}^3/\text{d}$	Volat_HCB
HCB-par	sorption flux HCB	$\text{gHCB/m}^3/\text{d}$	PartWK_HCB
HCB-par	sedimentation flux HCB	$\text{gHCB/m}^3/\text{d}$	Sed_HCB
HCB-par	atmospheric deposition flux HCB	$\text{gHCB/m}^3/\text{d}$	AtmDep_HCB

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Table 2.1 – continued from previous page

Substance	Description	Unit	Process
HCB-par	diffusive waste flux HCB	gHCB/m ³ /d	Dfwast_HCB
HCH-dis	sorption flux HCH	gHCH/m ³ /d	PartWK_HCH
HCH-dis	volatilisation flux HCH	gHCH/m ³ /d	Volat_HCH
HCH-par	sorption flux HCH	gHCH/m ³ /d	PartWK_HCH
HCH-par	sedimentation flux HCH	gHCH/m ³ /d	Sed_HCH
HCH-par	atmospheric deposition flux HCH	gHCH/m ³ /d	AtmDep_HCH
HCH-par	diffusive waste flux HCH	gHCH/m ³ /d	Dfwast_HCH
Mef-dis	sorption flux Mef	gMef/m ³ /d	PartWK_Mef
Mef-dis	volatilisation flux Mef	gMef/m ³ /d	Volat_Mef
Mef-par	sorption flux Mef	gMef/m ³ /d	PartWK_Mef
Mef-par	sedimentation flux Mef	gMef/m ³ /d	Sed_Mef
Mef-par	atmospheric deposition flux Mef	gMef/m ³ /d	AtmDep_Mef
Mef-par	diffusive waste flux Mef	gMef/m ³ /d	Dfwast_Mef
OMPS1	resuspension flux OMP from layer S1	gOMP/m ³ /d	S12TraOMP
OMPS1	burial flux OMP from layer S1	gOMP/m ³ /d	S12TraOMP
OMPS1	digging flux OMP to layer S1	gOMP/m ³ /d	S12TraOMP
OMPS1	overall loss flux OMP in S1	g/m ³ /d	Los_S1_OMP
OMPS1	sedimentation flux OMP	gOMP/m ³ /d	Sed_OMP
OMPS1-Dis	sorption flux OMP inS1	gOMP/m ³ /d	PartS1_OMP
OMPS1-Par	sorption flux OMP inS1	gOMP/m ³ /d	PartS1_OMP
OMPS1-Par	sedimentation flux OMP	gOMP/m ³ /d	Sed_OMP
OMPS2	resuspension flux OMP from layer S2	gOMP/m ³ /d	S12TraOMP
OMPS2	burial flux OMP from layer S1	gOMP/m ³ /d	S12TraOMP
OMPS2	burial flux OMP from layer S2	gOMP/m ³ /d	S12TraOMP
OMPS2	digging flux OMP to layer S1	gOMP/m ³ /d	S12TraOMP
OMPS2	digging flux OMP to layer S2	gOMP/m ³ /d	S12TraOMP
OMPS2	overall loss flux OMP in S2	g/m ³ /d	Los_S2_OMP
OMPS2-Dis	sorption flux OMP inS2	gOMP/m ³ /d	PartS2_OMP
OMPS2-Par	sorption flux OMP inS2	gOMP/m ³ /d	PartS2_OMP
OMP-dis	sorption flux OMP	gOMP/m ³ /d	PartWK_OMP
OMP-dis	volatilisation flux OMP	g/m ³ /d	Volat_OMP
OMP-par	sorption flux OMP	gOMP/m ³ /d	PartWK_OMP
OMP-par	sedimentation flux OMP	gOMP/m ³ /d	Sed_OMP
OMP-par	atmospheric deposition flux OMP	gOMP/m ³ /d	AtmDep_OMP
OMP-par	diffusive waste flux OMP	gOMP/m ³ /d	Dfwast_OMP
VB01	growth rate vegetation biomass cohort 1	gC/m ³ /d	VBGrowth01
VB01	mortality stem VB01	gC/m ³ /d	VBMort01
VB01	mortality branch VB01	gC/m ³ /d	VBMort01
VB01	mortality root VB01	gC/m ³ /d	VBMort01
VB01	mortality foliage VB01	gC/m ³ /d	VBMort01
VB01	mortality fineroot VB01	gC/m ³ /d	VBMort01
VB02	growth rate vegetation biomass cohort 2	gC/m ³ /d	VBGrowth02
VB02	mortality stem VB02	gC/m ³ /d	VBMort02
VB02	mortality branch VB02	gC/m ³ /d	VBMort02
VB02	mortality root VB02	gC/m ³ /d	VBMort02
VB02	mortality foliage VB02	gC/m ³ /d	VBMort02
VB02	mortality fineroot VB02	gC/m ³ /d	VBMort02
VB03	growth rate vegetation biomass cohort 3	gC/m ³ /d	VBGrowth03
VB03	mortality stem VB03	gC/m ³ /d	VBMort03
VB03	mortality branch VB03	gC/m ³ /d	VBMort03
VB03	mortality root VB03	gC/m ³ /d	VBMort03
VB03	mortality foliage VB03	gC/m ³ /d	VBMort03
VB03	mortality fineroot VB03	gC/m ³ /d	VBMort03
VB04	growth rate vegetation biomass cohort 4	gC/m ³ /d	VBGrowth04
VB04	mortality stem VB04	gC/m ³ /d	VBMort04
VB04	mortality branch VB04	gC/m ³ /d	VBMort04
VB04	mortality root VB04	gC/m ³ /d	VBMort04
VB04	mortality foliage VB04	gC/m ³ /d	VBMort04
VB04	mortality fineroot VB04	gC/m ³ /d	VBMort04
VB05	growth rate vegetation biomass cohort 5	gC/m ³ /d	VBGrowth05
VB05	mortality stem VB05	gC/m ³ /d	VBMort05
VB05	mortality branch VB05	gC/m ³ /d	VBMort05
VB05	mortality root VB05	gC/m ³ /d	VBMort05
VB05	mortality foliage VB05	gC/m ³ /d	VBMort05
VB05	mortality fineroot VB05	gC/m ³ /d	VBMort05
VB06	growth rate vegetation biomass cohort 6	gC/m ³ /d	VBGrowth06
VB06	mortality stem VB06	gC/m ³ /d	VBMort06
VB06	mortality branch VB06	gC/m ³ /d	VBMort06

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Substance	Description	Unit	Process
VB06	mortality root VB06	gC/m ³ /d	VB Mort06
VB06	mortality foliage VB06	gC/m ³ /d	VB Mort06
VB06	mortality fineroot VB06	gC/m ³ /d	VB Mort06
VB07	growth rate vegetation biomass cohort 7	gC/m ³ /d	VB Growth07
VB07	mortality stem VB07	gC/m ³ /d	VB Mort07
VB07	mortality branch VB07	gC/m ³ /d	VB Mort07
VB07	mortality root VB07	gC/m ³ /d	VB Mort07
VB07	mortality foliage VB07	gC/m ³ /d	VB Mort07
VB07	mortality fineroot VB07	gC/m ³ /d	VB Mort07
VB08	growth rate vegetation biomass cohort 8	gC/m ³ /d	VB Growth08
VB08	mortality stem VB08	gC/m ³ /d	VB Mort08
VB08	mortality branch VB08	gC/m ³ /d	VB Mort08
VB08	mortality root VB08	gC/m ³ /d	VB Mort08
VB08	mortality foliage VB08	gC/m ³ /d	VB Mort08
VB08	mortality fineroot VB08	gC/m ³ /d	VB Mort08
VB09	growth rate vegetation biomass cohort 3	gC/m ³ /d	VB Growth09
VB09	mortality stem VB09	gC/m ³ /d	VB Mort09
VB09	mortality branch VB09	gC/m ³ /d	VB Mort09
VB09	mortality root VB09	gC/m ³ /d	VB Mort09
VB09	mortality foliage VB09	gC/m ³ /d	VB Mort09
VB09	mortality fineroot VB09	gC/m ³ /d	VB Mort09
CYLINFIX	production of algae type	gC/m ³ /d	BLOOM_P
CYLINFIX	dummy flux to access Phy_Blo_P	-	Phy_Blo_P
CYLINFIX	sedimentation flux algae	gC/m ³ /d	SEDALG
ARTHROSP	production of algae type	gC/m ³ /d	BLOOM_P
ARTHROSP	dummy flux to access Phy_Blo_P	-	Phy_Blo_P
ARTHROSP	sedimentation flux algae	gC/m ³ /d	SEDALG
PLANKTOL	production of algae type	gC/m ³ /d	BLOOM_P
PLANKTOL	dummy flux to access Phy_Blo_P	-	Phy_Blo_P
PLANKTOL	sedimentation flux algae	gC/m ³ /d	SEDALG
PSEUDOAN	production of algae type	gC/m ³ /d	BLOOM_P
PSEUDOAN	dummy flux to access Phy_Blo_P	-	Phy_Blo_P
PSEUDOAN	sedimentation flux algae	gC/m ³ /d	SEDALG
EM01	growth of EM01 species	gC/m ³ /d	MacroPhyt1
EM01	decay of EM01 species	gC/m ³ /d	MacroPhyt1
EM01	grazing flux macrophyte EM01	gC/m ³ /d	GRZMAC01
EM01	harvesting flux macrophyte EM01	gC/m ³ /d	HRVMAC01
EM02	growth of EM02 species	gC/m ³ /d	MacroPhyt2
EM02	decay of EM02 species	gC/m ³ /d	MacroPhyt2
EM02	grazing flux macrophyte EM02	gC/m ³ /d	GRZMAC02
EM02	harvesting flux macrophyte EM02	gC/m ³ /d	HRVMAC02
EM03	growth of EM03 species	gC/m ³ /d	MacroPhyt3
EM03	decay of EM03 species	gC/m ³ /d	MacroPhyt3
EM03	grazing flux macrophyte EM03	gC/m ³ /d	GRZMAC03
EM03	harvesting flux macrophyte EM03	gC/m ³ /d	HRVMAC03
EM04	growth of EM04 species	gC/m ³ /d	MacroPhyt4
EM04	decay of EM04 species	gC/m ³ /d	MacroPhyt4
EM04	grazing flux macrophyte EM04	gC/m ³ /d	GRZMAC04
EM04	harvesting flux macrophyte EM04	gC/m ³ /d	HRVMAC04
EM05	growth of EM05 species	gC/m ³ /d	MacroPhyt5
EM05	decay of EM05 species	gC/m ³ /d	MacroPhyt5
EM05	grazing flux macrophyte EM05	gC/m ³ /d	GRZMAC05
EM05	harvesting flux macrophyte EM05	gC/m ³ /d	HRVMAC05
SM01	dummy flux to access MacDis	-	MACDIS01
SM01	growth of SM01 species	gC/m ³ /d	MacroPhyt1
SM01	decay of SM01 species	gC/m ³ /d	MacroPhyt1
SM01	grazing flux macrophyte SM01	gC/m ³ /d	GRZMAC01
SM01	harvesting flux macrophyte SM01	gC/m ³ /d	HRVMAC01
SM02	dummy flux to access MacDis	-	MACDIS02
SM02	growth of SM02 species	gC/m ³ /d	MacroPhyt2
SM02	decay of SM02 species	gC/m ³ /d	MacroPhyt2
SM02	grazing flux macrophyte SM02	gC/m ³ /d	GRZMAC02
SM02	harvesting flux macrophyte SM02	gC/m ³ /d	HRVMAC02
SM03	dummy flux to access MacDis	-	MACDIS03
SM03	growth of SM03 species	gC/m ³ /d	MacroPhyt3
SM03	decay of SM03 species	gC/m ³ /d	MacroPhyt3
SM03	grazing flux macrophyte SM03	gC/m ³ /d	GRZMAC03
SM03	harvesting flux macrophyte SM03	gC/m ³ /d	HRVMAC03

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Substance	Description	Unit	Process
SM04	dummy flux to access MacDis	-	MACDIS04
SM04	growth of SM04 species	gC/m ³ /d	MacroPhyt4
SM04	decay of SM04 species	gC/m ³ /d	MacroPhyt4
SM04	grazing flux macrophyte SM04	gC/m ³ /d	GRZMAC04
SM04	harvesting flux macrophyte SM04	gC/m ³ /d	HRVMAC04
SM05	dummy flux to access MacDis	-	MACDIS05
SM05	growth of SM05 species	gC/m ³ /d	MacroPhyt5
SM05	decay of SM05 species	gC/m ³ /d	MacroPhyt5
SM05	grazing flux macrophyte SM05	gC/m ³ /d	GRZMAC05
SM05	harvesting flux macrophyte SM05	gC/m ³ /d	HRVMAC05
RH01	translocation of C from EM to RH01	gC/m ³ /d	MacroPhyt1
RH01	translocation of C from SM to RH01	gC/m ³ /d	MacroPhyt1
RH01	translocation of C from RH to EM01	gC/m ³ /d	MacroPhyt1
RH01	translocation of C from RH to SM01	gC/m ³ /d	MacroPhyt1
RH01	grazing flux macrophyte RH01	gC/m ³ /d	GRZMAC01
RH01	harvesting flux macrophyte RH01	gC/m ³ /d	HRVMAC01
NRH01	translocation of N from EM to RH01	gN/m ³ /d	MacroPhyt1
NRH01	translocation of N from SM to RH01	gN/m ³ /d	MacroPhyt1
NRH01	translocation of N from RH to EM01	gN/m ³ /d	MacroPhyt1
NRH01	translocation of N from RH to SM01	gN/m ³ /d	MacroPhyt1
NRH01	grazing flux macrophyte NRH01	gC/m ³ /d	GRZMAC01
NRH01	harvesting flux macrophyte NRH01	gC/m ³ /d	HRVMAC01
PRH01	translocation of P from EM to RH01	gP/m ³ /d	MacroPhyt1
PRH01	translocation of P from SM to RH01	gP/m ³ /d	MacroPhyt1
PRH01	translocation of P from RH to EM01	gP/m ³ /d	MacroPhyt1
PRH01	translocation of P from RH to SM01	gP/m ³ /d	MacroPhyt1
PRH01	grazing flux macrophyte PRH01	gC/m ³ /d	GRZMAC01
PRH01	harvesting flux macrophyte PRH01	gC/m ³ /d	HRVMAC01
RH02	translocation of C from EM to RH02	gC/m ³ /d	MacroPhyt2
RH02	translocation of C from SM to RH02	gC/m ³ /d	MacroPhyt2
RH02	translocation of C from RH to EM02	gC/m ³ /d	MacroPhyt2
RH02	translocation of C from RH to SM02	gC/m ³ /d	MacroPhyt2
RH02	grazing flux macrophyte RH02	gC/m ³ /d	GRZMAC02
RH02	harvesting flux macrophyte RH02	gC/m ³ /d	HRVMAC02
NRH02	translocation of N from EM to RH02	gN/m ³ /d	MacroPhyt2
NRH02	translocation of N from SM to RH02	gN/m ³ /d	MacroPhyt2
NRH02	translocation of N from RH to EM02	gN/m ³ /d	MacroPhyt2
NRH02	translocation of N from RH to SM02	gN/m ³ /d	MacroPhyt2
NRH02	grazing flux macrophyte NRH02	gC/m ³ /d	GRZMAC02
NRH02	harvesting flux macrophyte NRH02	gC/m ³ /d	HRVMAC02
PRH02	translocation of P from EM to RH02	gP/m ³ /d	MacroPhyt2
PRH02	translocation of P from SM to RH02	gP/m ³ /d	MacroPhyt2
PRH02	translocation of P from RH to EM02	gP/m ³ /d	MacroPhyt2
PRH02	translocation of P from RH to SM02	gP/m ³ /d	MacroPhyt2
PRH02	grazing flux macrophyte PRH02	gC/m ³ /d	GRZMAC02
PRH02	harvesting flux macrophyte PRH02	gC/m ³ /d	HRVMAC02
RH03	translocation of C from EM to RH03	gC/m ³ /d	MacroPhyt3
RH03	translocation of C from SM to RH03	gC/m ³ /d	MacroPhyt3
RH03	translocation of C from RH to EM03	gC/m ³ /d	MacroPhyt3
RH03	translocation of C from RH to SM03	gC/m ³ /d	MacroPhyt3
RH03	grazing flux macrophyte RH03	gC/m ³ /d	GRZMAC03
RH03	harvesting flux macrophyte RH03	gC/m ³ /d	HRVMAC03
NRH03	translocation of N from EM to RH03	gN/m ³ /d	MacroPhyt3
NRH03	translocation of N from SM to RH03	gN/m ³ /d	MacroPhyt3
NRH03	translocation of N from RH to EM03	gN/m ³ /d	MacroPhyt3
NRH03	translocation of N from RH to SM03	gN/m ³ /d	MacroPhyt3
NRH03	grazing flux macrophyte NRH03	gC/m ³ /d	GRZMAC03
NRH03	harvesting flux macrophyte NRH03	gC/m ³ /d	HRVMAC03
PRH03	translocation of P from EM to RH03	gP/m ³ /d	MacroPhyt3
PRH03	translocation of P from SM to RH03	gP/m ³ /d	MacroPhyt3
PRH03	translocation of P from RH to EM03	gP/m ³ /d	MacroPhyt3
PRH03	translocation of P from RH to SM03	gP/m ³ /d	MacroPhyt3
PRH03	grazing flux macrophyte PRH03	gC/m ³ /d	GRZMAC03
PRH03	harvesting flux macrophyte PRH03	gC/m ³ /d	HRVMAC03
RH04	translocation of C from EM to RH04	gC/m ³ /d	MacroPhyt4
RH04	translocation of C from SM to RH04	gC/m ³ /d	MacroPhyt4
RH04	translocation of C from RH to EM04	gC/m ³ /d	MacroPhyt4
RH04	translocation of C from RH to SM04	gC/m ³ /d	MacroPhyt4

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Table 2.1 – continued from previous page

Substance	Description	Unit	Process
RH04	grazing flux macrophyte RH04	gC/m ³ /d	GRZMAC04
RH04	harvesting flux macrophyte RH04	gC/m ³ /d	HRVMAC04
NRH04	translocation of N from EM to RH04	gN/m ³ /d	MacroPhyt4
NRH04	translocation of N from SM to RH04	gN/m ³ /d	MacroPhyt4
NRH04	translocation of N from RH to EM04	gN/m ³ /d	MacroPhyt4
NRH04	translocation of N from RH to SM04	gN/m ³ /d	MacroPhyt4
NRH04	grazing flux macrophyte NRH04	gC/m ³ /d	GRZMAC04
NRH04	harvesting flux macrophyte NRH04	gC/m ³ /d	HRVMAC04
PRH04	translocation of P from EM to RH04	gP/m ³ /d	MacroPhyt4
PRH04	translocation of P from SM to RH04	gP/m ³ /d	MacroPhyt4
PRH04	translocation of P from RH to EM04	gP/m ³ /d	MacroPhyt4
PRH04	translocation of P from RH to SM04	gP/m ³ /d	MacroPhyt4
PRH04	grazing flux macrophyte PRH04	gC/m ³ /d	GRZMAC04
PRH04	harvesting flux macrophyte PRH04	gC/m ³ /d	HRVMAC04
RH05	translocation of C from EM to RH05	gC/m ³ /d	MacroPhyt5
RH05	translocation of C from SM to RH05	gC/m ³ /d	MacroPhyt5
RH05	translocation of C from RH to EM05	gC/m ³ /d	MacroPhyt5
RH05	translocation of C from RH to SM05	gC/m ³ /d	MacroPhyt5
RH05	grazing flux macrophyte RH05	gC/m ³ /d	GRZMAC05
RH05	harvesting flux macrophyte RH05	gC/m ³ /d	HRVMAC05
NRH05	translocation of N from EM to RH05	gN/m ³ /d	MacroPhyt5
NRH05	translocation of N from SM to RH05	gN/m ³ /d	MacroPhyt5
NRH05	translocation of N from RH to EM05	gN/m ³ /d	MacroPhyt5
NRH05	translocation of N from RH to SM05	gN/m ³ /d	MacroPhyt5
NRH05	grazing flux macrophyte NRH05	gC/m ³ /d	GRZMAC05
NRH05	harvesting flux macrophyte NRH05	gC/m ³ /d	HRVMAC05
PRH05	translocation of P from EM to RH05	gP/m ³ /d	MacroPhyt5
PRH05	translocation of P from SM to RH05	gP/m ³ /d	MacroPhyt5
PRH05	translocation of P from RH to EM05	gP/m ³ /d	MacroPhyt5
PRH05	translocation of P from RH to SM05	gP/m ³ /d	MacroPhyt5
PRH05	grazing flux macrophyte PRH05	gC/m ³ /d	GRZMAC05
PRH05	harvesting flux macrophyte PRH05	gC/m ³ /d	HRVMAC05
Mussel_V	growth flux struct biomass DEB Mussel	gC/m ³ /d	DEBGRZ_M
Mussel_V	mortality flux struct biomass DEB Mussel	gC/m ³ /d	DEBGRZ_M
Mussel_E	anabolic flux energy reserves DEB Mussel	gC/m ³ /d	DEBGRZ_M
Mussel_E	catabolic flux energy reserves DEB Mussel	gC/m ³ /d	DEBGRZ_M
Mussel_E	mortality flux energy reserves DEB Mussel	gC/m ³ /d	DEBGRZ_M
Mussel_R	spawning flux of DEB Mussel to DetC	gC/m ³ /d	DEBGRZ_M
Mussel_R	growth flux gonadal tissue DEB Mussel	gC/m ³ /d	DEBGRZ_M
Mussel_R	mortality flux gonadal tissue DEB Mussel	gC/m ³ /d	DEBGRZ_M
Mussel_N	increase dens by growth V1morphs only	cm ³ /(m ² d)	DEBGRZ_M
Mussel_N	mortality and harvesting of DEB Mussel	gC/(m ² d)	DEBGRZ_M
Zoopl_V	growth flux struct biomass DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
Zoopl_V	mortality flux struct biomass DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
Zoopl_E	anabolic flux energy reserves DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
Zoopl_E	catabolic flux energy reserves DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
Zoopl_E	mortality flux energy reserves DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
Zoopl_R	spawning flux DEB Zooplankton to DetC	gC/m ³ /d	DEBGRZ_Z
Zoopl_R	growth flux gonadal tissue DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
Zoopl_R	mortality flux gonadal tissue DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
Zoopl_N	increase dens by growth V1morphs only	cm ³ /(m ² d)	DEBGRZ_Z
Zoopl_N	mortality and harvesting of DEB Zoopl	gC/(m ² d)	DEBGRZ_Z
Grazer3_V	growth flux struct biomass DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
Grazer3_V	mortality flux struct biomass DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
Grazer3_E	anabolic flux energy reserves DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
Grazer3_E	catabolic flux enrgy reserves DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
Grazer3_E	mortality flux enrgy reserves DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
Grazer3_R	spawning flux of DEB Grazer3 to DetC	gC/m ³ /d	DEBGRZ_G3
Grazer3_R	growth flux gonadal tissue DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
Grazer3_R	mortality flux gonadal tissue DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
Grazer3_N	increase dens by growth V1morphs only	cm ³ /(m ² d)	DEBGRZ_G3
Grazer3_N	mortality and harvesting of DEB Grazer3	gC/(m ² d)	DEBGRZ_G3
Grazer4_V	growth flux struct biomass DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
Grazer4_V	mortality flux struct biomass DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
Grazer4_E	anabolic flux energy reserves DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
Grazer4_E	catabolic flux enrgy reserves DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
Grazer4_E	mortality flux enrgy reserves DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
Grazer4_R	spawning flux of DEB Grazer4 to DetC	gC/m ³ /d	DEBGRZ_G4

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Table 2.1 – continued from previous page

Substance	Description	Unit	Process
Grazer4_R	growth flux gonadal tissue DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
Grazer4_R	mortality flux gonadal tissue DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
Grazer4_N	increase dens by growth V1 morphs only	cm ³ /(m ² d)	DEBGRZ_G4
Grazer4_N	mortality and harvesting of DEB Grazer4	gC/(m ² d)	DEBGRZ_G4
Grazer5_V	growth flux struct biomass DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
Grazer5_V	mortality flux struct biomass DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
Grazer5_E	anabolic flux energy reserves DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
Grazer5_E	catabolic flux enrgy reserves DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
Grazer5_E	mortality flux enrgy reserves DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
Grazer5_R	spawning flux of DEB Grazer5 to DetC	gC/m ³ /d	DEBGRZ_G5
Grazer5_R	growth flux gonadal tissue DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
Grazer5_R	mortality flux gonadal tissue DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
Grazer5_N	increase dens by growth V1 morphs only	cm ³ /(m ² d)	DEBGRZ_G5
Grazer5_N	mortality and harvesting of DEB Grazer5	gC/(m ² d)	DEBGRZ_G5
F2	grazing of dummy food 2 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
F2	grazing of dummy food 2 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
F2	grazing of dummy food 2 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
F2	grazing of dummy food 2 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
F2	grazing of dummy food 2 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
F3	grazing of dummy food 3 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
F3	grazing of dummy food 3 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
F3	grazing of dummy food 3 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
F3	grazing of dummy food 3 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
F3	grazing of dummy food 3 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
F4	grazing of dummy food 4 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
F4	grazing of dummy food 4 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
F4	grazing of dummy food 4 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
F4	grazing of dummy food 4 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
F4	grazing of dummy food 4 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
F5	grazing of dummy food 5 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
F5	grazing of dummy food 5 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
F5	grazing of dummy food 5 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
F5	grazing of dummy food 5 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
F5	grazing of dummy food 5 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
F6	grazing of dummy food 6 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
F6	grazing of dummy food 6 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
F6	grazing of dummy food 6 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
F6	grazing of dummy food 6 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
F6	grazing of dummy food 6 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
F7	grazing of dummy food 7 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
F7	grazing of dummy food 7 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
F7	grazing of dummy food 7 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
F7	grazing of dummy food 7 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
F7	grazing of dummy food 7 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
F8	grazing of dummy food 8 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
F8	grazing of dummy food 8 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
F8	grazing of dummy food 8 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
F8	grazing of dummy food 8 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
F8	grazing of dummy food 8 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5
DF	grazing of dummy food 1 by DEB Mussel	gC/m ³ /d	DEBGRZ_M
DF	grazing of dummy food 1 by DEB Zoopl	gC/m ³ /d	DEBGRZ_Z
DF	grazing of dummy food 1 by DEB Grazer3	gC/m ³ /d	DEBGRZ_G3
DF	grazing of dummy food 1 by DEB Grazer4	gC/m ³ /d	DEBGRZ_G4
DF	grazing of dummy food 1 by DEB Grazer5	gC/m ³ /d	DEBGRZ_G5

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3 Per substance a listing of the modelled velocities

Table 3.1: Per substance a listing of the modelled velocities

Substance	Description	Unit	Process
OXY	total upward transport in sediment	m/s	TraSe2_OXY
OXY	total downward transport in sediment	m/s	TraSe2_OXY
Salinity	total upward transport in sediment	m/s	TraSe2_Sal
Salinity	total downward transport in sediment	m/s	TraSe2_Sal
Cl	total upward transport in sediment	m/s	TraSe2_Cl
Cl	total downward transport in sediment	m/s	TraSe2_Cl
IM1	sedimentation velocity IM1	m/s	Sed_IM1
IM1	total upward transport in sediment	m/s	TraSe2_IM1
IM1	total downward transport in sediment	m/s	TraSe2_IM1
IM2	sedimentation velocity IM2	m/s	Sed_IM2
IM2	total upward transport in sediment	m/s	TraSe2_IM2
IM2	total downward transport in sediment	m/s	TraSe2_IM2
IM3	sedimentation velocity IM3	m/s	Sed_IM3
IM3	total upward transport in sediment	m/s	TraSe2_IM3
IM3	total downward transport in sediment	m/s	TraSe2_IM3
Cd	sedimentation velocity Cd	m/s	Sed_Cd
Cu	sedimentation velocity Cu	m/s	Sed_Cu
Zn	sedimentation velocity Zn	m/s	Sed_Zn
Cr	sedimentation velocity Cr	m/s	Sed_Cr
Hg	sedimentation velocity Hg	m/s	Sed_Hg
Pb	sedimentation velocity Pb	m/s	Sed_Pb
As	sedimentation velocity As	m/s	Sed_As
Va	sedimentation velocity Va	m/s	Sed_Va
Ni	sedimentation velocity Ni	m/s	Sed_Ni
Green	sedimentation velocity Greens	m/s	Sed_Gre
Diat	sedimentation velocity Diatoms	m/s	SedDiat
NO3	total upward transport in sediment	m/s	TraSe2_NO3
NO3	total downward transport in sediment	m/s	TraSe2_NO3
NH4	total upward transport in sediment	m/s	TraSe2_NH4
NH4	total downward transport in sediment	m/s	TraSe2_NH4
PO4	total upward transport in sediment	m/s	TraSe2_PO4
PO4	total downward transport in sediment	m/s	TraSe2_PO4
AAP	sedimentation velocity AAP	m/s	Sed_AAP
AAP	total upward transport in sediment	m/s	TraSe2_AAP
AAP	total downward transport in sediment	m/s	TraSe2_AAP
Si	total upward transport in sediment	m/s	TraSe2_Si
Si	total downward transport in sediment	m/s	TraSe2_Si
153	sedimentation velocity 153	m/s	Sed_153
ATR	sedimentation velocity Atrazine	m/s	Sed_Atr
BaP	total upward transport in sediment	m/s	TraSe2_BaP
BaP	total downward transport in sediment	m/s	TraSe2_BaP
BaP	sedimentation velocity BaP	m/s	Sed_BaP
Flu	sedimentation velocity Flu	m/s	Sed_Flu
Mef	sedimentation velocity Mef	m/s	Sed_Mef
Diu	sedimentation velocity Diu	m/s	Sed_Diu
HCH	sedimentation velocity HCH	m/s	Sed_HCH
HCB	sedimentation velocity HCB	m/s	Sed_HCB
TIC	total upward transport in sediment	m/s	TraSe2_TIC
TIC	total downward transport in sediment	m/s	TraSe2_TIC
CBOD5	sedimentation velocity CBOD5	m/s	S_CBOD51
CBOD5_2	sedimentation velocity CBOD5_2	m/s	S_CBOD52
CBOD5_3	sedimentation velocity CBOD5_3	m/s	S_CBOD53
CBODu	sedimentation velocity CBODu	m/s	S_CBODu1
CBODu_2	sedimentation velocity CBODu_2	m/s	S_CBODu2
COD_Cr	sedimentation velocity COD_Cr	m/s	S_CODCr
COD_Mn	sedimentation velocity COD_Mn	m/s	S_CODMn
NBOD5	sedimentation velocity NBOD5	m/s	S_NBOD5
NBODu	sedimentation velocity NBODu	m/s	S_NBODu
POC1	sedimentation velocity POC1	m/s	Sed_POC1
POC1	total upward transport in sediment	m/s	TrSe2_POC1
POC1	total downward transport in sediment	m/s	TrSe2_POC1
POC1	flux to GEM bot.org. from grazing as velocity	m/s	CONSBL
POC2	sedimentation velocity POC2	m/s	Sed_POC2
POC2	total upward transport in sediment	m/s	TrSe2_POC2
POC2	total downward transport in sediment	m/s	TrSe2_POC2
POC3	sedimentation velocity POC3	m/s	Sed_POC3
POC3	total upward transport in sediment	m/s	TrSe2_POC3
POC3	total downward transport in sediment	m/s	TrSe2_POC3

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Substance	Description	Unit	Process
POC4	sedimentation velocity POC4	m/s	Sed_POC4
POC4	total upward transport in sediment	m/s	TrSe2_POC4
POC4	total downward transport in sediment	m/s	TrSe2_POC4
DOC	total upward transport in sediment	m/s	TraSe2_DOC
DOC	total downward transport in sediment	m/s	TraSe2_DOC
PON1	sedimentation velocity POC1	m/s	Sed_POC1
PON1	total upward transport in sediment	m/s	TrSe2_PON1
PON1	total downward transport in sediment	m/s	TrSe2_PON1
PON1	flux to GEM bot.org. from grazing as velocity	m/s	CONSBL
PON2	sedimentation velocity POC2	m/s	Sed_POC2
PON2	total upward transport in sediment	m/s	TrSe2_PON2
PON2	total downward transport in sediment	m/s	TrSe2_PON2
PON3	sedimentation velocity POC3	m/s	Sed_POC3
PON3	total upward transport in sediment	m/s	TrSe2_PON3
PON3	total downward transport in sediment	m/s	TrSe2_PON3
PON4	sedimentation velocity POC4	m/s	Sed_POC4
PON4	total upward transport in sediment	m/s	TrSe2_PON4
PON4	total downward transport in sediment	m/s	TrSe2_PON4
DON	total upward transport in sediment	m/s	TraSe2_DON
DON	total downward transport in sediment	m/s	TraSe2_DON
POP1	sedimentation velocity POC1	m/s	Sed_POC1
POP1	total upward transport in sediment	m/s	TrSe2_POP1
POP1	total downward transport in sediment	m/s	TrSe2_POP1
POP1	flux to GEM bot.org. from grazing as velocity	m/s	CONSBL
POP2	sedimentation velocity POC2	m/s	Sed_POC2
POP2	total upward transport in sediment	m/s	TrSe2_POP2
POP2	total downward transport in sediment	m/s	TrSe2_POP2
POP3	sedimentation velocity POC3	m/s	Sed_POC3
POP3	total upward transport in sediment	m/s	TrSe2_POP3
POP3	total downward transport in sediment	m/s	TrSe2_POP3
POP4	sedimentation velocity POC4	m/s	Sed_POC4
POP4	total upward transport in sediment	m/s	TrSe2_POP4
POP4	total downward transport in sediment	m/s	TrSe2_POP4
DOP	total upward transport in sediment	m/s	TraSe2_DOP
DOP	total downward transport in sediment	m/s	TraSe2_DOP
POS1	total upward transport in sediment	m/s	TrSe2_POS1
POS1	total downward transport in sediment	m/s	TrSe2_POS1
POS2	total upward transport in sediment	m/s	TrSe2_POS2
POS2	total downward transport in sediment	m/s	TrSe2_POS2
POS3	total upward transport in sediment	m/s	TrSe2_POS3
POS3	total downward transport in sediment	m/s	TrSe2_POS3
POS4	total upward transport in sediment	m/s	TrSe2_POS4
POS4	total downward transport in sediment	m/s	TrSe2_POS4
DOS	total upward transport in sediment	m/s	TraSe2_DOS
DOS	total downward transport in sediment	m/s	TraSe2_DOS
Opal	sedimentation velocity Opal	m/s	Sed_Opal
Opal	total upward transport in sediment	m/s	TrSe2_Opal
Opal	total downward transport in sediment	m/s	TrSe2_Opal
Opal	flux to GEM bot.org. from grazing as velocity	m/s	CONSBL
MPB1peli	sedimentation velocity MPB1peli	m/s	Sed_MPB1
MPB1peli	total upward transport in sediment	m/s	TrSe2_MPB1
MPB1peli	total downward transport in sediment	m/s	TrSe2_MPB1
MPB2psam	sedimentation velocity MPB2psam	m/s	Sed_MPB2
MPB2psam	total upward transport in sediment	m/s	TrSe2_MPB2
MPB2psam	total downward transport in sediment	m/s	TrSe2_MPB2
BLOOMALG01	sedimentation velocity algae type 01	m/s	SEDALG01
BLOOMALG01	total upward transport in sediment	m/s	TrSe2Alg01
BLOOMALG01	total downward transport in sediment	m/s	TrSe2Alg01
BLOOMALG02	sedimentation velocity algae type 02	m/s	SEDALG02
BLOOMALG02	total upward transport in sediment	m/s	TrSe2Alg02
BLOOMALG02	total downward transport in sediment	m/s	TrSe2Alg02
BLOOMALG03	sedimentation velocity algae type 03	m/s	SEDALG03
BLOOMALG03	total upward transport in sediment	m/s	TrSe2Alg03
BLOOMALG03	total downward transport in sediment	m/s	TrSe2Alg03
BLOOMALG04	sedimentation velocity algae type 04	m/s	SEDALG04
BLOOMALG04	total upward transport in sediment	m/s	TrSe2Alg04
BLOOMALG04	total downward transport in sediment	m/s	TrSe2Alg04
BLOOMALG05	sedimentation velocity algae type 05	m/s	SEDALG05
BLOOMALG05	total upward transport in sediment	m/s	TrSe2Alg05
BLOOMALG05	total downward transport in sediment	m/s	TrSe2Alg05
BLOOMALG06	sedimentation velocity algae type 06	m/s	SEDALG06

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Substance	Description	Unit	Process
BLOOMALG06	total upward transport in sediment	m/s	TrSe2Alg06
BLOOMALG06	total downward transport in sediment	m/s	TrSe2Alg06
BLOOMALG07	sedimentation velocity algae type 07	m/s	SEDALG07
BLOOMALG07	total upward transport in sediment	m/s	TrSe2Alg07
BLOOMALG07	total downward transport in sediment	m/s	TrSe2Alg07
BLOOMALG08	sedimentation velocity algae type 08	m/s	SEDALG08
BLOOMALG08	total upward transport in sediment	m/s	TrSe2Alg08
BLOOMALG08	total downward transport in sediment	m/s	TrSe2Alg08
BLOOMALG09	sedimentation velocity algae type 09	m/s	SEDALG09
BLOOMALG09	total upward transport in sediment	m/s	TrSe2Alg09
BLOOMALG09	total downward transport in sediment	m/s	TrSe2Alg09
BLOOMALG10	sedimentation velocity algae type 10	m/s	SEDALG10
BLOOMALG10	total upward transport in sediment	m/s	TrSe2Alg10
BLOOMALG10	total downward transport in sediment	m/s	TrSe2Alg10
BLOOMALG11	sedimentation velocity algae type 11	m/s	SEDALG11
BLOOMALG11	total upward transport in sediment	m/s	TrSe2Alg11
BLOOMALG11	total downward transport in sediment	m/s	TrSe2Alg11
BLOOMALG12	sedimentation velocity algae type 12	m/s	SEDALG12
BLOOMALG12	total upward transport in sediment	m/s	TrSe2Alg12
BLOOMALG12	total downward transport in sediment	m/s	TrSe2Alg12
BLOOMALG13	sedimentation velocity algae type 13	m/s	SEDALG13
BLOOMALG13	total upward transport in sediment	m/s	TrSe2Alg13
BLOOMALG13	total downward transport in sediment	m/s	TrSe2Alg13
BLOOMALG14	sedimentation velocity algae type 14	m/s	SEDALG14
BLOOMALG14	total upward transport in sediment	m/s	TrSe2Alg14
BLOOMALG14	total downward transport in sediment	m/s	TrSe2Alg14
BLOOMALG15	sedimentation velocity algae type 15	m/s	SEDALG15
BLOOMALG15	total upward transport in sediment	m/s	TrSe2Alg15
BLOOMALG15	total downward transport in sediment	m/s	TrSe2Alg15
BLOOMALG16	sedimentation velocity algae type 16	m/s	SEDALG16
BLOOMALG16	total upward transport in sediment	m/s	TrSe2Alg16
BLOOMALG16	total downward transport in sediment	m/s	TrSe2Alg16
BLOOMALG17	sedimentation velocity algae type 17	m/s	SEDALG17
BLOOMALG17	total upward transport in sediment	m/s	TrSe2Alg17
BLOOMALG17	total downward transport in sediment	m/s	TrSe2Alg17
BLOOMALG18	sedimentation velocity algae type 18	m/s	SEDALG18
BLOOMALG18	total upward transport in sediment	m/s	TrSe2Alg18
BLOOMALG18	total downward transport in sediment	m/s	TrSe2Alg18
BLOOMALG19	sedimentation velocity algae type 19	m/s	SEDALG19
BLOOMALG19	total upward transport in sediment	m/s	TrSe2Alg19
BLOOMALG19	total downward transport in sediment	m/s	TrSe2Alg19
BLOOMALG20	sedimentation velocity algae type 20	m/s	SEDALG20
BLOOMALG20	total upward transport in sediment	m/s	TrSe2Alg20
BLOOMALG20	total downward transport in sediment	m/s	TrSe2Alg20
BLOOMALG21	sedimentation velocity algae type 21	m/s	SEDALG21
BLOOMALG21	total upward transport in sediment	m/s	TrSe2Alg21
BLOOMALG21	total downward transport in sediment	m/s	TrSe2Alg21
BLOOMALG22	sedimentation velocity algae type 22	m/s	SEDALG22
BLOOMALG22	total upward transport in sediment	m/s	TrSe2Alg22
BLOOMALG22	total downward transport in sediment	m/s	TrSe2Alg22
BLOOMALG23	sedimentation velocity algae type 23	m/s	SEDALG23
BLOOMALG23	total upward transport in sediment	m/s	TrSe2Alg23
BLOOMALG23	total downward transport in sediment	m/s	TrSe2Alg23
BLOOMALG24	sedimentation velocity algae type 24	m/s	SEDALG24
BLOOMALG24	total upward transport in sediment	m/s	TrSe2Alg24
BLOOMALG24	total downward transport in sediment	m/s	TrSe2Alg24
BLOOMALG25	sedimentation velocity algae type 25	m/s	SEDALG25
BLOOMALG25	total upward transport in sediment	m/s	TrSe2Alg25
BLOOMALG25	total downward transport in sediment	m/s	TrSe2Alg25
BLOOMALG26	sedimentation velocity algae type 26	m/s	SEDALG26
BLOOMALG26	total upward transport in sediment	m/s	TrSe2Alg26
BLOOMALG26	total downward transport in sediment	m/s	TrSe2Alg26
BLOOMALG27	sedimentation velocity algae type 27	m/s	SEDALG27
BLOOMALG27	total upward transport in sediment	m/s	TrSe2Alg27
BLOOMALG27	total downward transport in sediment	m/s	TrSe2Alg27
BLOOMALG28	sedimentation velocity algae type 28	m/s	SEDALG28
BLOOMALG28	total upward transport in sediment	m/s	TrSe2Alg28
BLOOMALG28	total downward transport in sediment	m/s	TrSe2Alg28
BLOOMALG29	sedimentation velocity algae type 29	m/s	SEDALG29
BLOOMALG29	total upward transport in sediment	m/s	TrSe2Alg29
BLOOMALG29	total downward transport in sediment	m/s	TrSe2Alg29

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Table 3.1 – continued from previous page

Substance	Description	Unit	Process
BLOOMALG30	sedimentation velocity algae type 30	m/s	SEDALG30
BLOOMALG30	total upward transport in sediment	m/s	TrSe2Alg30
BLOOMALG30	total downward transport in sediment	m/s	TrSe2Alg30
OMP	sedimentation velocity OMP	m/s	Sed_OMP
OMP	total upward transport in sediment	m/s	TraSe2_OMP
OMP	total downward transport in sediment	m/s	TraSe2_OMP
SO4	total upward transport in sediment	m/s	TraSe2_SO4
SO4	total downward transport in sediment	m/s	TraSe2_SO4
SUD	total upward transport in sediment	m/s	TraSe2_SUD
SUD	total downward transport in sediment	m/s	TraSe2_SUD
SUP	total upward transport in sediment	m/s	TraSe2_SUP
SUP	total downward transport in sediment	m/s	TraSe2_SUP
VIVP	sedimentation velocity VIVP	m/s	Sed_VivP
VIVP	total upward transport in sediment	m/s	TrSe2_VIVP
VIVP	total downward transport in sediment	m/s	TrSe2_VIVP
APATP	sedimentation velocity APATP	m/s	Sed_ApatP
APATP	total upward transport in sediment APATP	m/s	TrSe2_APAT
APATP	total downward transport in sediment APATP	m/s	TrSe2_APAT
CH4	total upward transport in sediment	m/s	TraSe2_CH4
CH4	total downward transport in sediment	m/s	TraSe2_CH4
Alka	total upward transport in sediment	m/s	TrSe2_Alka
Alka	total downward transport in sediment	m/s	TrSe2_Alka
Fellpa	sedimentation velocity Fe3pa	m/s	Sed_Fe3pa
Fellpa	total upward transport in sediment	m/s	TrSe2_F3pa
Fellpa	total downward transport in sediment	m/s	TrSe2_F3pa
Fellpc	sedimentation velocity Fe3pc	m/s	Sed_Fe3pc
Fellpc	total upward transport in sediment	m/s	TrSe2_F3pc
Fellpc	total downward transport in sediment	m/s	TrSe2_F3pc
Fellld	total upward transport in sediment	m/s	TrSe2_Fe3d
Fellld	total downward transport in sediment	m/s	TrSe2_Fe3d
Fellld	total upward transport in sediment	m/s	TrSe2_Fe2d
Fellld	total downward transport in sediment	m/s	TrSe2_Fe2d
FeS	sedimentation velocity FeS	m/s	Sed_FeS
FeS	total upward transport in sediment	m/s	TrSe2_FeS
FeS	total downward transport in sediment	m/s	TrSe2_FeS
FeS2	sedimentation velocity FeS2	m/s	Sed_FeS2
FeS2	total upward transport in sediment	m/s	TrSe2_FeS2
FeS2	total downward transport in sediment	m/s	TrSe2_FeS2
FeCO3	sedimentation velocity FeCO3	m/s	Sed_FeCO3
FeCO3	total upward transport in sediment	m/s	TrSe2_FCO3
FeCO3	total downward transport in sediment	m/s	TrSe2_FCO3
Cd-Par	sedimentation velocity Cd	m/s	Sed_Cd
Cr-Par	sedimentation velocity Cr	m/s	Sed_Cr
Cu-Par	sedimentation velocity Cu	m/s	Sed_Cu
Hg-Par	sedimentation velocity Hg	m/s	Sed_Hg
Ni-Par	sedimentation velocity Ni	m/s	Sed_Ni
Pb-Par	sedimentation velocity Pb	m/s	Sed_Pb
As-Par	sedimentation velocity As	m/s	Sed_As
Va-Par	sedimentation velocity Va	m/s	Sed_Va
Zn-Par	sedimentation velocity Zn	m/s	Sed_Zn
153-par	sedimentation velocity 153	m/s	Sed_153
Atr-par	sedimentation velocity Atrazine	m/s	Sed_Atr
BaP-par	sedimentation velocity BaP	m/s	Sed_Bap
Diu-par	sedimentation velocity Diu	m/s	Sed_Diu
Flu-par	sedimentation velocity Flu	m/s	Sed_Flu
HCB-par	sedimentation velocity HCB	m/s	Sed_HCB
HCH-par	sedimentation velocity HCH	m/s	Sed_HCH
Mef-par	sedimentation velocity Mef	m/s	Sed_Mef
OMP-par	sedimentation velocity OMP	m/s	Sed_OMP
Bulkvolume	volume change velocity vector resuspension	m/s	AdvTra
Bulkvolume	velocity vector for volume change sedim.	m/s	AdvTra
Bulkvolume	velocity vector for volume change burial	m/s	AdvTra
Bulkvolume	velocity vector for volume change seepage	m/s	AdvTra

4 Per substance a listing of the modelled dispersion

Table 4.1: Per substance a listing of the modelled dispersion

Substance	Description	Unit	Process
ALLACTIVE	vertical dispersion	m ² /s	VertDisp
ALLACTIVE	variable horizontal dispersion	m ² /s	HorzDisper
ALLACTIVE	variable horizontal dispersion	m ² /s	HDisperVel
ALLACTIVE	variable horizontal dispersion	m ² /s	HDisperAdd

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5 Listing of the modelled fluxes

Table 5.1: Listing of the modelled fluxes

Flux	Description	Unit	Stoch.	Sub.	Process
dDumphcarb	dummy flux to access pH_simp	-	0.00	ALKA	pH_carb
dDumphcarb	dummy flux to access pH_simp	-	0.00	TIC	pH_carb
dDumEmersi	dummy flux to access Emersion	-	0.00	Continuity	Emersion
dTempHtfl	Flux on water temperature via heat balance	°C/d	1.00	NatTemp	HeatBal
dModTemp	temperature exchange flux	°C/d	1.00	ModTemp	Temperatur
dDumVarSal	dummy flux to access HorzDisper	-	0.00	FrCon	VarSal
dDumVarSal	dummy flux to access HorzDisper	-	0.00	FrFlow	VarSal
dDumVarSal	dummy flux to access HorzDisper	-	0.00	SalBnd	VarSal
dDumRestim	dummy flux to access restim	-	0.00	Continuity	ResTim
dDumVerDis	dummy flux to access VertDisper	-	0.00	OXY	VertDisp
dDumHorDis	dummy flux to access HorzDisper	-	0.00	OXY	HorzDisper
dDumHorDiV	dummy flux to access HorzDisper	-	0.00	Continuity	HDisperVel
dDumHorDiV	dummy flux to access HorzDisper	-	0.00	OXY	HDisperVel
dDumHorDiV	dummy flux to access HorzDisper	-	0.00	Salinity	HDisperVel
dDumHorDiV	dummy flux to access HorzDisper	-	0.00	FrCon	HDisperVel
dDumHorDiV	dummy flux to access HorzDisper	-	0.00	FrFlow	HDisperVel
dDumHorDiV	dummy flux to access HorzDisper	-	0.00	SalBnd	HDisperVel
dDumHorDiA	dummy flux to access HorzDisper	-	0.00	Continuity	HDisperAdd
dDumHorDiA	dummy flux to access HorzDisper	-	0.00	OXY	HDisperAdd
dDumHorDiA	dummy flux to access HorzDisper	-	0.00	Salinity	HDisperAdd
dDumHorDiA	dummy flux to access HorzDisper	-	0.00	FrCon	HDisperAdd
dDumHorDiA	dummy flux to access HorzDisper	-	0.00	FrFlow	HDisperAdd
dDumHorDiA	dummy flux to access HorzDisper	-	0.00	SalBnd	HDisperAdd
dDecTR1	decay tracer from source 1	g/m ³ /d	-1.00	dTR1	Age1
dDecTR2	decay tracer from source 2	g/m ³ /d	-1.00	dTR2	Age2
dDecTR3	decay tracer from source 3	g/m ³ /d	-1.00	dTR3	Age3
dDecTR4	decay tracer from source 4	g/m ³ /d	-1.00	dTR4	Age4
dDecTR5	decay tracer from source 5	g/m ³ /d	-1.00	dTR5	Age5
dDumSM01	dummy flux to access MacDis	-	0.00	SM01	MACDIS01
dDumSM02	dummy flux to access MacDis	-	0.00	SM02	MACDIS02
dDumSM03	dummy flux to access MacDis	-	0.00	SM03	MACDIS03
dDumSM04	dummy flux to access MacDis	-	0.00	SM04	MACDIS04
dDumSM05	dummy flux to access MacDis	-	0.00	SM05	MACDIS05
dDumhpsimp	dummy flux to access pH_simp	-	0.00	ALKA	pH_simp
dDumhpsimp	dummy flux to access pH_simp	-	0.00	TIC	pH_simp
dDumspcarb	dummy flux to access SpecCarb	-	0.00	TIC	SpecCarb
dCaut	autolysis flux of carbon	gC/m ³ /d	-2.67	OXY	BLOOM_P
dCaut	autolysis flux of carbon	gC/m ³ /d	1.00	TIC	BLOOM_P
dCaut	autolysis flux of carbon	gC/m ³ /d	1.50	H2O	BLOOM_P
dCaut	autolysis flux of carbon	gC/m ³ /d	0.02	SUD	BLOOM_P
dNaut	autolysis flux of nitrogen	gN/m ³ /d	1.00	NH4	BLOOM_P
dNaut	autolysis flux of nitrogen	gN/m ³ /d	-0.07	H+	BLOOM_P
dNaut	autolysis flux of nitrogen	gN/m ³ /d	4.36	ALKA	BLOOM_P
dPaut	autolysis flux of PO4	gP/m ³ /d	1.00	PO4	BLOOM_P
dPaut	autolysis flux of PO4	gP/m ³ /d	0.03	H+	BLOOM_P
dPaut	autolysis flux of PO4	gP/m ³ /d	-1.97	ALKA	BLOOM_P
dSlaut	autolysis flux of silicate	gSi/m ³ /d	1.00	SI	BLOOM_P
dDetCMort	production of DetC by mortality	gC/m ³ /d	1.00	POC1	BLOOM_P
dDetCMort	production of DetC by mortality	gC/m ³ /d	0.02	POS1	BLOOM_P
dDetNMort	production of DetN by mortality	gN/m ³ /d	1.00	PON1	BLOOM_P
dDetPMort	production of DetP by mortality	gP/m ³ /d	1.00	POP1	BLOOM_P
dDetSiMort	production of DetSi by mortality	gSi/m ³ /d	1.00	Opal	BLOOM_P
dOOCMort	production of OOC by mortality	gC/m ³ /d	1.00	POC2	BLOOM_P
dOOCMort	production of OOC by mortality	gC/m ³ /d	0.02	POS2	BLOOM_P
dOONMort	production of OON by mortality	gN/m ³ /d	1.00	PON2	BLOOM_P
dOOPMort	production of OOP by mortality	gP/m ³ /d	1.00	POP2	BLOOM_P
dOOSiMort	production of OOSi by mortality	gSi/m ³ /d	1.00	Opal	BLOOM_P
dCUpt	uptake of carbon by algae growth	gC/m ³ /d	-1.00	TIC	BLOOM_P
dCUpt	uptake of carbon by algae growth	gC/m ³ /d	-1.50	H2O	BLOOM_P
dCUpt	uptake of carbon by algae growth	gC/m ³ /d	-0.02	SO4	BLOOM_P
dNH4Upt	NH4 uptake by algae growth	gN/m ³ /d	-1.00	NH4	BLOOM_P
dNH4Upt	NH4 uptake by algae growth	gN/m ³ /d	0.07	H+	BLOOM_P
dNH4Upt	NH4 uptake by algae growth	gN/m ³ /d	-4.36	ALKA	BLOOM_P
dNO3Upt	uptake of NO3 by algae growth	gN/m ³ /d	-1.00	NO3	BLOOM_P
dNO3Upt	uptake of NO3 by algae growth	gN/m ³ /d	4.57	OXY	BLOOM_P

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dNO3Upt	uptake of NO3 by algae growth	gN/m ³ /d	-0.07	H+	BLOOM_P
dNO3Upt	uptake of NO3 by algae growth	gN/m ³ /d	4.36	ALKA	BLOOM_P
dNO3Upt	uptake of NO3 by algae growth	gN/m ³ /d	-1.29	H2O	BLOOM_P
dPO4Upt	PO4 uptake by algae growth	gP/m ³ /d	-1.00	PO4	BLOOM_P
dPO4Upt	PO4 uptake by algae growth	gP/m ³ /d	-0.03	H+	BLOOM_P
dPO4Upt	PO4 uptake by algae growth	gP/m ³ /d	1.97	ALKA	BLOOM_P
dSIUpt	Si uptake by algae growth	gSi/m ³ /d	-1.00	SI	BLOOM_P
dDetNUpt	uptake of DetN by heterotroph algae growth	gN/m ³ /d	-1.00	PON1	BLOOM_P
dDetPUpt	uptake of DetP by heterotroph algae growth	gP/m ³ /d	-1.00	POP1	BLOOM_P
dDetCUpt	uptake of DetC by heterotroph algae growth	gC/m ³ /d	-1.00	POC1	BLOOM_P
dPrProdOxy	uptake of carbon by algae growth	gC/m ³ /d	2.67	OXY	BLOOM_P
dProdAlg	production of algae type	gC/m ³ /d	1.00	APHANFIX	BLOOM_P
dProdAlg	production of algae type	gC/m ³ /d	1.00	APHANIZO	BLOOM_P
dProdAlg	production of algae type	gC/m ³ /d	1.00	BLUEGRN	BLOOM_P
dProdAlg	production of algae type	gC/m ³ /d	1.00	DINOFLAG	BLOOM_P
dProdAlg	production of algae type	gC/m ³ /d	1.00	DINOMIX	BLOOM_P
dProdAlg	production of algae type	gC/m ³ /d	1.00	FDIATOMS	BLOOM_P
dProdAlg	production of algae type	gC/m ³ /d	1.00	FFLAGELA	BLOOM_P
dProdAlg	production of algae type	gC/m ³ /d	1.00	GREENS	BLOOM_P
dProdAlg	production of algae type	gC/m ³ /d	1.00	MDIATOMS	BLOOM_P
dProdAlg	production of algae type	gC/m ³ /d	1.00	MFLAGELA	BLOOM_P
dProdAlg	production of algae type	gC/m ³ /d	1.00	MICROCYS	BLOOM_P
dProdAlg	production of algae type	gC/m ³ /d	1.00	OSCILAT	BLOOM_P
dProdAlg	production of algae type	gC/m ³ /d	1.00	PHAEOCYS	BLOOM_P
dProdAlg	production of algae type	gC/m ³ /d	1.00	UlvaF	BLOOM_P
dProdAlg	production of algae type	gC/m ³ /d	1.00	UlvaS	BLOOM_P
dProdAlg	production of algae type	gC/m ³ /d	1.00	NODULA	BLOOM_P
dProdAlg	production of algae type	gC/m ³ /d	1.00	ANABAENA	BLOOM_P
dProdAlg	production of algae type	gC/m ³ /d	1.00	CYLINFIX	BLOOM_P
dProdAlg	production of algae type	gC/m ³ /d	1.00	ARTHROSP	BLOOM_P
dProdAlg	production of algae type	gC/m ³ /d	1.00	PLANKTOL	BLOOM_P
dProdAlg	production of algae type	gC/m ³ /d	1.00	PSEUDOAN	BLOOM_P
dProdAlg01	primary production of algae type 01	gC/m ³ /d	1.00	BLOOMALG01	BLOOM
dProdAlg02	primary production of algae type 02	gC/m ³ /d	1.00	BLOOMALG02	BLOOM
dProdAlg03	primary production of algae type 03	gC/m ³ /d	1.00	BLOOMALG03	BLOOM
dProdAlg04	primary production of algae type 04	gC/m ³ /d	1.00	BLOOMALG04	BLOOM
dProdAlg05	primary production of algae type 05	gC/m ³ /d	1.00	BLOOMALG05	BLOOM
dProdAlg06	primary production of algae type 06	gC/m ³ /d	1.00	BLOOMALG06	BLOOM
dProdAlg07	primary production of algae type 07	gC/m ³ /d	1.00	BLOOMALG07	BLOOM
dProdAlg08	primary production of algae type 08	gC/m ³ /d	1.00	BLOOMALG08	BLOOM
dProdAlg09	primary production of algae type 09	gC/m ³ /d	1.00	BLOOMALG09	BLOOM
dProdAlg10	primary production of algae type 10	gC/m ³ /d	1.00	BLOOMALG10	BLOOM
dProdAlg11	primary production of algae type 11	gC/m ³ /d	1.00	BLOOMALG11	BLOOM
dProdAlg12	primary production of algae type 12	gC/m ³ /d	1.00	BLOOMALG12	BLOOM
dProdAlg13	primary production of algae type 13	gC/m ³ /d	1.00	BLOOMALG13	BLOOM
dProdAlg14	primary production of algae type 14	gC/m ³ /d	1.00	BLOOMALG14	BLOOM
dProdAlg15	primary production of algae type 15	gC/m ³ /d	1.00	BLOOMALG15	BLOOM
dProdAlg16	primary production of algae type 16	gC/m ³ /d	1.00	BLOOMALG16	BLOOM
dProdAlg17	primary production of algae type 17	gC/m ³ /d	1.00	BLOOMALG17	BLOOM
dProdAlg18	primary production of algae type 18	gC/m ³ /d	1.00	BLOOMALG18	BLOOM
dProdAlg19	primary production of algae type 19	gC/m ³ /d	1.00	BLOOMALG19	BLOOM
dProdAlg20	primary production of algae type 20	gC/m ³ /d	1.00	BLOOMALG20	BLOOM
dProdAlg21	primary production of algae type 21	gC/m ³ /d	1.00	BLOOMALG21	BLOOM
dProdAlg22	primary production of algae type 22	gC/m ³ /d	1.00	BLOOMALG22	BLOOM
dProdAlg23	primary production of algae type 23	gC/m ³ /d	1.00	BLOOMALG23	BLOOM
dProdAlg24	primary production of algae type 24	gC/m ³ /d	1.00	BLOOMALG24	BLOOM
dProdAlg25	primary production of algae type 25	gC/m ³ /d	1.00	BLOOMALG25	BLOOM
dProdAlg26	primary production of algae type 26	gC/m ³ /d	1.00	BLOOMALG26	BLOOM
dProdAlg27	primary production of algae type 27	gC/m ³ /d	1.00	BLOOMALG27	BLOOM
dProdAlg28	primary production of algae type 28	gC/m ³ /d	1.00	BLOOMALG28	BLOOM
dProdAlg29	primary production of algae type 29	gC/m ³ /d	1.00	BLOOMALG29	BLOOM
dProdAlg30	primary production of algae type 30	gC/m ³ /d	1.00	BLOOMALG30	BLOOM
dMortAlg01	mortality of algae type 01	gC/m ³ /d	-1.00	BLOOMALG01	BLOOM
dMortAlg02	mortality of algae type 02	gC/m ³ /d	-1.00	BLOOMALG02	BLOOM
dMortAlg03	mortality of algae type 03	gC/m ³ /d	-1.00	BLOOMALG03	BLOOM

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dMortAlg04	mortality of algae type 04	gC/m ³ /d	-1.00	BLOOMALG04	BLOOM
dMortAlg05	mortality of algae type 05	gC/m ³ /d	-1.00	BLOOMALG05	BLOOM
dMortAlg06	mortality of algae type 06	gC/m ³ /d	-1.00	BLOOMALG06	BLOOM
dMortAlg07	mortality of algae type 07	gC/m ³ /d	-1.00	BLOOMALG07	BLOOM
dMortAlg08	mortality of algae type 08	gC/m ³ /d	-1.00	BLOOMALG08	BLOOM
dMortAlg09	mortality of algae type 09	gC/m ³ /d	-1.00	BLOOMALG09	BLOOM
dMortAlg10	mortality of algae type 10	gC/m ³ /d	-1.00	BLOOMALG10	BLOOM
dMortAlg11	mortality of algae type 11	gC/m ³ /d	-1.00	BLOOMALG11	BLOOM
dMortAlg12	mortality of algae type 12	gC/m ³ /d	-1.00	BLOOMALG12	BLOOM
dMortAlg13	mortality of algae type 13	gC/m ³ /d	-1.00	BLOOMALG13	BLOOM
dMortAlg14	mortality of algae type 14	gC/m ³ /d	-1.00	BLOOMALG14	BLOOM
dMortAlg15	mortality of algae type 15	gC/m ³ /d	-1.00	BLOOMALG15	BLOOM
dMortAlg16	mortality of algae type 16	gC/m ³ /d	-1.00	BLOOMALG16	BLOOM
dMortAlg17	mortality of algae type 17	gC/m ³ /d	-1.00	BLOOMALG17	BLOOM
dMortAlg18	mortality of algae type 18	gC/m ³ /d	-1.00	BLOOMALG18	BLOOM
dMortAlg19	mortality of algae type 19	gC/m ³ /d	-1.00	BLOOMALG19	BLOOM
dMortAlg20	mortality of algae type 20	gC/m ³ /d	-1.00	BLOOMALG20	BLOOM
dMortAlg21	mortality of algae type 21	gC/m ³ /d	-1.00	BLOOMALG21	BLOOM
dMortAlg22	mortality of algae type 22	gC/m ³ /d	-1.00	BLOOMALG22	BLOOM
dMortAlg23	mortality of algae type 23	gC/m ³ /d	-1.00	BLOOMALG23	BLOOM
dMortAlg24	mortality of algae type 24	gC/m ³ /d	-1.00	BLOOMALG24	BLOOM
dMortAlg25	mortality of algae type 25	gC/m ³ /d	-1.00	BLOOMALG25	BLOOM
dMortAlg26	mortality of algae type 26	gC/m ³ /d	-1.00	BLOOMALG26	BLOOM
dMortAlg27	mortality of algae type 27	gC/m ³ /d	-1.00	BLOOMALG27	BLOOM
dMortAlg28	mortality of algae type 28	gC/m ³ /d	-1.00	BLOOMALG28	BLOOM
dMortAlg29	mortality of algae type 29	gC/m ³ /d	-1.00	BLOOMALG29	BLOOM
dMortAlg30	mortality of algae type 30	gC/m ³ /d	-1.00	BLOOMALG30	BLOOM
dDumphyblo	dummy flux to access Phy_Blo_P	-	1.00	APHANFIX	Phy_Blo_P
dDumphyblo	dummy flux to access Phy_Blo_P	-	1.00	APHANIZO	Phy_Blo_P
dDumphyblo	dummy flux to access Phy_Blo_P	-	1.00	BLUEGRN	Phy_Blo_P
dDumphyblo	dummy flux to access Phy_Blo_P	-	1.00	DINOFLAG	Phy_Blo_P
dDumphyblo	dummy flux to access Phy_Blo_P	-	1.00	DINOMIX	Phy_Blo_P
dDumphyblo	dummy flux to access Phy_Blo_P	-	1.00	FDIATOMS	Phy_Blo_P
dDumphyblo	dummy flux to access Phy_Blo_P	-	1.00	FFLAGELA	Phy_Blo_P
dDumphyblo	dummy flux to access Phy_Blo_P	-	1.00	GREENS	Phy_Blo_P
dDumphyblo	dummy flux to access Phy_Blo_P	-	1.00	MDIATOMS	Phy_Blo_P
dDumphyblo	dummy flux to access Phy_Blo_P	-	1.00	MFLAGELA	Phy_Blo_P
dDumphyblo	dummy flux to access Phy_Blo_P	-	1.00	MICROCYS	Phy_Blo_P
dDumphyblo	dummy flux to access Phy_Blo_P	-	1.00	OSCILAT	Phy_Blo_P
dDumphyblo	dummy flux to access Phy_Blo_P	-	1.00	PHAEOCYS	Phy_Blo_P
dDumphyblo	dummy flux to access Phy_Blo_P	-	1.00	UlvaF	Phy_Blo_P
dDumphyblo	dummy flux to access Phy_Blo_P	-	1.00	UlvaS	Phy_Blo_P
dDumphyblo	dummy flux to access Phy_Blo_P	-	1.00	NODULA	Phy_Blo_P
dDumphyblo	dummy flux to access Phy_Blo_P	-	1.00	ANABAENA	Phy_Blo_P
dDumphyblo	dummy flux to access Phy_Blo_P	-	1.00	CYLINFIX	Phy_Blo_P
dDumphyblo	dummy flux to access Phy_Blo_P	-	1.00	ARTHROSP	Phy_Blo_P
dDumphyblo	dummy flux to access Phy_Blo_P	-	1.00	PLANKTOL	Phy_Blo_P
dDumphyblo	dummy flux to access Phy_Blo_P	-	1.00	PSEUDOAN	Phy_Blo_P
dDumMak	dummy flux to access MakOOC	-	0.00	IM1	MakOOC
dDumMak	dummy flux to access MakOOC	-	0.00	IM2	MakOOC
dDumMak	dummy flux to access MakOOC	-	0.00	IM3	MakOOC
dDumS1Mak	dummy flux to access MakOOCs1	-	0.00	IM1S1	MakOOCs1
dDumS1Mak	dummy flux to access MakOOCs1	-	0.00	IM2S1	MakOOCs1
dDumS1Mak	dummy flux to access MakOOCs1	-	0.00	IM3S1	MakOOCs1
dDumS2Mak	dummy flux to access MakOOCs2	-	0.00	IM1S2	MakOOCs2
dDumS2Mak	dummy flux to access MakOOCs2	-	0.00	IM2S2	MakOOCs2
dDumS2Mak	dummy flux to access MakOOCs2	-	0.00	IM3S2	MakOOCs2
dDumS1Comp	dummy flux to access S1_Comp	-	0.00	IM1S1	S1_Comp
dDumS1Comp	dummy flux to access S1_Comp	-	0.00	IM2S1	S1_Comp
dDumS1Comp	dummy flux to access S1_Comp	-	0.00	IM3S1	S1_Comp
dDumS1Comp	dummy flux to access S1_Comp	-	0.00	DetCS1	S1_Comp
dDumS1Comp	dummy flux to access S1_Comp	-	0.00	OOCs1	S1_Comp
dDumS1Comp	dummy flux to access S1_Comp	-	0.00	DiatS1	S1_Comp
dDumS1Comp	dummy flux to access S1_Comp	-	0.00	GreenS1	S1_Comp
dDumS1Comp	dummy flux to access S1_Comp	-	0.00	AAPS1	S1_Comp
dDumS1Comp	dummy flux to access S1_Comp	-	0.00	DetNS1	S1_Comp
dDumS1Comp	dummy flux to access S1_Comp	-	0.00	DetPS1	S1_Comp
dDumS1Comp	dummy flux to access S1_Comp	-	0.00	DetSiS1	S1_Comp
dDumS1Comp	dummy flux to access S1_Comp	-	0.00	OONS1	S1_Comp
dDumS1Comp	dummy flux to access S1_Comp	-	0.00	OOSiS1	S1_Comp

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dDumS2Comp	dummy flux to access S2_Comp	-	0.00	IM1S2	S2_Comp
dDumS2Comp	dummy flux to access S2_Comp	-	0.00	IM2S2	S2_Comp
dDumS2Comp	dummy flux to access S2_Comp	-	0.00	IM3S2	S2_Comp
dDumS2Comp	dummy flux to access S2_Comp	-	0.00	DetCS2	S2_Comp
dDumS2Comp	dummy flux to access S2_Comp	-	0.00	OOCs2	S2_Comp
dDumS2Comp	dummy flux to access S2_Comp	-	0.00	DiatS2	S2_Comp
dDumS2Comp	dummy flux to access S2_Comp	-	0.00	GreenS2	S2_Comp
dDumS2Comp	dummy flux to access S2_Comp	-	0.00	AAPS2	S2_Comp
dDumS2Comp	dummy flux to access S2_Comp	-	0.00	DetNS2	S2_Comp
dDumS2Comp	dummy flux to access S2_Comp	-	0.00	DetPS2	S2_Comp
dDumS2Comp	dummy flux to access S2_Comp	-	0.00	DetSiS2	S2_Comp
dDumS2Comp	dummy flux to access S2_Comp	-	0.00	OONS2	S2_Comp
dDumS2Comp	dummy flux to access S2_Comp	-	0.00	OOSiS2	S2_Comp
dDumCompos	dummy flux to access Compos	-	0.00	NO3	Compos
dDumCompos	dummy flux to access Compos	-	0.00	NH4	Compos
dDumCompos	dummy flux to access Compos	-	0.00	PO4	Compos
dDumCompos	dummy flux to access Compos	-	0.00	Si	Compos
dDumCompos	dummy flux to access Compos	-	0.00	IM1	Compos
dDumCompos	dummy flux to access Compos	-	0.00	IM2	Compos
dDumCompos	dummy flux to access Compos	-	0.00	IM3	Compos
dDumCompos	dummy flux to access Compos	-	0.00	Phyt	Compos
dDumCompos	dummy flux to access Compos	-	0.00	AlgN	Compos
dDumCompos	dummy flux to access Compos	-	0.00	AlgP	Compos
dDumCompos	dummy flux to access Compos	-	0.00	AlgSi	Compos
dDumCompos	dummy flux to access Compos	-	0.00	AlgDM	Compos
dDumCompos	dummy flux to access Compos	-	0.00	POC1	Compos
dDumCompos	dummy flux to access Compos	-	0.00	POC2	Compos
dDumCompos	dummy flux to access Compos	-	0.00	POC3	Compos
dDumCompos	dummy flux to access Compos	-	0.00	POC4	Compos
dDumCompos	dummy flux to access Compos	-	0.00	PON1	Compos
dDumCompos	dummy flux to access Compos	-	0.00	DOC	Compos
dDumCompos	dummy flux to access Compos	-	0.00	DON	Compos
dDumCompos	dummy flux to access Compos	-	0.00	DOP	Compos
dDumCompos	dummy flux to access Compos	-	0.00	DOS	Compos
dDumCompos	dummy flux to access Compos	-	0.00	AAP	Compos
dDumCompos	dummy flux to access Compos	-	0.00	VIVP	Compos
dDumCompos	dummy flux to access Compos	-	0.00	APATP	Compos
dDumCompos	dummy flux to access Compos	-	0.00	PON2	Compos
dDumCompos	dummy flux to access Compos	-	0.00	PON3	Compos
dDumCompos	dummy flux to access Compos	-	0.00	PON4	Compos
dDumCompos	dummy flux to access Compos	-	0.00	POP1	Compos
dDumCompos	dummy flux to access Compos	-	0.00	POP2	Compos
dDumCompos	dummy flux to access Compos	-	0.00	POP3	Compos
dDumCompos	dummy flux to access Compos	-	0.00	POP4	Compos
dDumCompos	dummy flux to access Compos	-	0.00	POS1	Compos
dDumCompos	dummy flux to access Compos	-	0.00	POS2	Compos
dDumCompos	dummy flux to access Compos	-	0.00	POS3	Compos
dDumCompos	dummy flux to access Compos	-	0.00	POS4	Compos
dDumCompos	dummy flux to access Compos	-	0.00	Opal	Compos
dMrtEColi	mortality flux EColi	MPN/m ³ /d	-1.00	EColi	EColiMrt
dMrtFColi	mortality flux FColi	MPN/m ³ /d	-1.00	FColi	FColiMrt
dMrtTColi	mortality flux TColi	MPN/m ³ /d	-1.00	TColi	TColiMrt
dMrtEnCoc	mortality flux EnCoc	MPN/m ³ /d	-1.00	EnCoc	EnCocMrt
dREARCO2	reaeration flux of CO2	gCO2/m ³ /d	0.27	TIC	RearCO2
dAdsPO4AAP	adsorption flux PO4 to AAP	gP/m ³ /d	-1.00	PO4	AdsPO4AAP
dAdsPO4AAP	adsorption flux PO4 to AAP	gP/m ³ /d	1.00	AAP	AdsPO4AAP
dDenitSed	denitrification flux from the sediment	gN/m ³ /d	-1.00	NO3	DenSed_NO3
dDenitWat	denitrification flux in the water column	gN/m ³ /d	-1.00	NO3	DenWat_NO3
dDenitWat	denitrification flux in the water column	gN/m ³ /d	-0.07	H+	DenWat_NO3
dDenitWat	denitrification flux in the water column	gN/m ³ /d	0.64	H2O	DenWat_NO3
dDenitWat	denitrification flux in the water column	gN/m ³ /d	2.86	OXY	DenWat_NO3
dDenitWat	denitrification flux in the water column	gN/m ³ /d	4.36	ALKA	DenWat_NO3
dNITRIF	nitrification flux	gN/m ³ /d	-1.00	NH4	Nitrif_NH4
dNITRIF	nitrification flux	gN/m ³ /d	1.00	NO3	Nitrif_NH4
dNITRIF	nitrification flux	gN/m ³ /d	-4.57	OXY	Nitrif_NH4
dNITRIF	nitrification flux	gN/m ³ /d	0.14	H+	Nitrif_NH4
dNITRIF	nitrification flux	gN/m ³ /d	1.29	H2O	Nitrif_NH4
dNITRIF	nitrification flux	gN/m ³ /d	-8.71	ALKA	Nitrif_NH4
dREAROXY	reaeration flux of dissolved oxygen	gO2/m ³ /d	1.00	OXY	RearOXY
dCUptVar	var. uptake of carbon by algae growth	gC/m ³ /d	2.67	OXY	VAROXY

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dMinDetCS1	mineralisation flux DetCS1	gC/m ³ /d	-1.00	DetCS1	BMS1_DetC
dMinDetCS1	mineralisation flux DetCS1	gC/m ³ /d	-2.67	OXY	BMS1_DetC
dMinDetCS1	mineralisation flux DetCS1	gC/m ³ /d	1.00	TIC	BMS1_DetC
dMinDetCS1	mineralisation flux DetCS1	gC/m ³ /d	1.50	H2O	BMS1_DetC
dSWMinDCS1	SWITCH mineralisation flux DetC in layer S1	gC/m ³ /d	-1.00	DetCS1	BMS1_DetC
dSWMinDCS1	SWITCH mineralisation flux DetC in layer S1	gC/m ³ /d	1.00	TIC	BMS1_DetC
dSWMinDCS1	SWITCH mineralisation flux DetC in layer S1	gC/m ³ /d	1.50	H2O	BMS1_DetC
dMinDetCS2	mineralisation flux DetCS2	gC/m ³ /d	-1.00	DetCS2	BMS2_DetC
dMinDetCS2	mineralisation flux DetCS2	gC/m ³ /d	-2.67	OXY	BMS2_DetC
dMinDetCS2	mineralisation flux DetCS2	gC/m ³ /d	1.00	TIC	BMS2_DetC
dMinDetCS2	mineralisation flux DetCS2	gC/m ³ /d	1.50	H2O	BMS2_DetC
dSWMinDCS2	SWITCH mineralisation flux DetC in layer S2	gC/m ³ /d	-1.00	DetCS2	BMS2_DetC
dSWMinDCS2	SWITCH mineralisation flux DetC in layer S2	gC/m ³ /d	1.00	TIC	BMS2_DetC
dSWMinDCS2	SWITCH mineralisation flux DetC in layer S2	gC/m ³ /d	1.50	H2O	BMS2_DetC
dMinDetNS1	mineralisation flux DetNS1	gN/m ³ /d	-1.00	DetNS1	BMS1_DetN
dMinDetNS1	mineralisation flux DetNS1	gN/m ³ /d	1.00	NH4	BMS1_DetN
dMinDetNS1	mineralisation flux DetNS1	gN/m ³ /d	-0.07	H+	BMS1_DetN
dMinDetNS1	mineralisation flux DetNS1	gN/m ³ /d	4.36	ALKA	BMS1_DetN
dSWMinDNS1	SWITCH mineralisation flux DetN in layer S1	gN/m ³ /d	-1.00	DetNS1	BMS1_DetN
dSWMinDNS1	SWITCH mineralisation flux DetN in layer S1	gN/m ³ /d	-0.07	H+	BMS1_DetN
dSWMinDNS1	SWITCH mineralisation flux DetN in layer S1	gN/m ³ /d	4.36	ALKA	BMS1_DetN
dMinDetNS2	mineralisation flux DetNS2	gN/m ³ /d	-1.00	DetNS2	BMS2_DetN
dMinDetNS2	mineralisation flux DetNS2	gN/m ³ /d	1.00	NH4	BMS2_DetN
dMinDetNS2	mineralisation flux DetNS2	gN/m ³ /d	-0.07	H+	BMS2_DetN
dMinDetNS2	mineralisation flux DetNS2	gN/m ³ /d	4.36	ALKA	BMS2_DetN
dSWMinDNS2	SWITCH mineralisation flux DetN in layer S2	gN/m ³ /d	-1.00	DetNS2	BMS2_DetN
dSWMinDNS2	SWITCH mineralisation flux DetN in layer S2	gN/m ³ /d	-0.07	H+	BMS2_DetN
dSWMinDNS2	SWITCH mineralisation flux DetN in layer S2	gN/m ³ /d	4.36	ALKA	BMS2_DetN
dMinDetPS1	mineralisation flux DetPS1	gP/m ³ /d	-1.00	DetPS1	BMS1_DetP
dMinDetPS1	mineralisation flux DetPS1	gP/m ³ /d	1.00	PO4	BMS1_DetP
dMinDetPS1	mineralisation flux DetPS1	gP/m ³ /d	0.03	H+	BMS1_DetP
dMinDetPS1	mineralisation flux DetPS1	gP/m ³ /d	-1.97	ALKA	BMS1_DetP
dSWMinDPS1	SWITCH mineralisation flux DetP in layer S1	gN/m ³ /d	-1.00	DetPS1	BMS1_DetP
dSWMinDPS1	SWITCH mineralisation flux DetP in layer S1	gN/m ³ /d	0.03	H+	BMS1_DetP
dSWMinDPS1	SWITCH mineralisation flux DetP in layer S1	gN/m ³ /d	-1.97	ALKA	BMS1_DetP
dMinDetPS2	mineralisation flux DetPS2	gP/m ³ /d	-1.00	DetPS2	BMS2_DetP
dMinDetPS2	mineralisation flux DetPS2	gP/m ³ /d	1.00	PO4	BMS2_DetP
dMinDetPS2	mineralisation flux DetPS2	gP/m ³ /d	0.03	H+	BMS2_DetP
dMinDetPS2	mineralisation flux DetPS2	gP/m ³ /d	-1.97	ALKA	BMS2_DetP
dSWMinDPS2	SWITCH mineralisation flux DetP in layer S2	gN/m ³ /d	-1.00	DetPS2	BMS2_DetP
dSWMinDPS2	SWITCH mineralisation flux DetP in layer S2	gN/m ³ /d	0.03	H+	BMS2_DetP
dSWMinDPS2	SWITCH mineralisation flux DetP in layer S2	gN/m ³ /d	-1.97	ALKA	BMS2_DetP
dMinDetSiS	mineralisation flux DetSiS1	gSi/m ³ /d	-1.00	DetSiS1	BMS1_DetSi
dMinDetSiS	mineralisation flux DetSiS1	gSi/m ³ /d	1.00	Si	BMS1_DetSi
dSWMinDSS1	SWITCH mineralisation flux DetSi in layer S1	gSi/m ³ /d	-1.00	DetSiS1	BMS1_DetSi
dMinDetSS2	mineralisation flux DetSiS2	gSi/m ³ /d	-1.00	DetSiS2	BMS2_DetSi
dMinDetSS2	mineralisation flux DetSiS2	gSi/m ³ /d	1.00	Si	BMS2_DetSi
dSWMinDSS2	SWITCH mineralisation flux DetSi in layer S2	gSi/m ³ /d	-1.00	DetSiS2	BMS2_DetSi
dMinOOCs1	mineralisation flux OOCs1	gC/m ³ /d	-1.00	OOCs1	BMS1_OOC

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dMinOOCs1	mineralisation flux OOCs1	gC/m ³ /d	-2.67	OXY	BMS1_OOC
dMinOOCs1	mineralisation flux OOCs1	gC/m ³ /d	1.00	TIC	BMS1_OOC
dMinOOCs1	mineralisation flux OOCs1	gC/m ³ /d	1.50	H2O	BMS1_OOC
dSWMnOOCs1	SWITCH mineralisation flux OOC in layer S1	gC/m ³ /d	-1.00	OOCs1	BMS1_OOC
dSWMnOOCs1	SWITCH mineralisation flux OOC in layer S1	gC/m ³ /d	1.00	TIC	BMS1_OOC
dSWMnOOCs1	SWITCH mineralisation flux OOC in layer S1	gC/m ³ /d	1.50	H2O	BMS1_OOC
dMinOOCs2	mineralisation flux OOCs2	gC/m ³ /d	-1.00	OOCs2	BMS2_OOC
dMinOOCs2	mineralisation flux OOCs2	gC/m ³ /d	-2.67	OXY	BMS2_OOC
dMinOOCs2	mineralisation flux OOCs2	gC/m ³ /d	1.00	TIC	BMS2_OOC
dMinOOCs2	mineralisation flux OOCs2	gC/m ³ /d	1.50	H2O	BMS2_OOC
dSWMnOOCs2	SWITCH mineralisation flux OOC in layer S2	gC/m ³ /d	-1.00	OOCs2	BMS2_OOC
dSWMnOOCs2	SWITCH mineralisation flux OOC in layer S2	gC/m ³ /d	1.00	TIC	BMS2_OOC
dSWMnOOCs2	SWITCH mineralisation flux OOC in layer S2	gC/m ³ /d	1.50	H2O	BMS2_OOC
dMinOONS1	mineralisation flux OONS1	gN/m ³ /d	-1.00	OONS1	BMS1_OON
dMinOONS1	mineralisation flux OONS1	gN/m ³ /d	1.00	NH4	BMS1_OON
dMinOONS1	mineralisation flux OONS1	gN/m ³ /d	-0.07	H+	BMS1_OON
dMinOONS1	mineralisation flux OONS1	gN/m ³ /d	4.36	ALKA	BMS1_OON
dSWMnOONS1	SWITCH mineralisation flux OON in layer S1	gN/m ³ /d	-1.00	OONS1	BMS1_OON
dSWMnOONS1	SWITCH mineralisation flux OON in layer S1	gN/m ³ /d	-0.07	H+	BMS1_OON
dSWMnOONS1	SWITCH mineralisation flux OON in layer S1	gN/m ³ /d	4.36	ALKA	BMS1_OON
dMinOONS2	mineralisation flux OONS2	gN/m ³ /d	-1.00	OONS2	BMS2_OON
dMinOONS2	mineralisation flux OONS2	gN/m ³ /d	1.00	NH4	BMS2_OON
dMinOONS2	mineralisation flux OONS2	gN/m ³ /d	-0.07	H+	BMS2_OON
dMinOONS2	mineralisation flux OONS2	gN/m ³ /d	4.36	ALKA	BMS2_OON
dSWMnOONS2	SWITCH mineralisation flux OON in layer S2	gN/m ³ /d	-1.00	OONS2	BMS2_OON
dSWMnOONS2	SWITCH mineralisation flux OON in layer S2	gN/m ³ /d	-0.07	H+	BMS2_OON
dSWMnOONS2	SWITCH mineralisation flux OON in layer S2	gN/m ³ /d	4.36	ALKA	BMS2_OON
dMinOOPS1	mineralisation flux OOPS1	gP/m ³ /d	-1.00	OOPS1	BMS1_OOP
dMinOOPS1	mineralisation flux OOPS1	gP/m ³ /d	1.00	PO4	BMS1_OOP
dMinOOPS1	mineralisation flux OOPS1	gP/m ³ /d	0.03	H+	BMS1_OOP
dMinOOPS1	mineralisation flux OOPS1	gP/m ³ /d	-1.97	ALKA	BMS1_OOP
dSWMnOOPS1	SWITCH mineralisation flux OOP in layer S1	gP/m ³ /d	-1.00	OOPS1	BMS1_OOP
dSWMnOOPS1	SWITCH mineralisation flux OOP in layer S1	gP/m ³ /d	0.03	H+	BMS1_OOP
dSWMnOOPS1	SWITCH mineralisation flux OOP in layer S1	gP/m ³ /d	-1.97	ALKA	BMS1_OOP
dMinOOPS2	mineralisation flux OOPS2	gP/m ³ /d	-1.00	OOPS2	BMS2_OOP
dMinOOPS2	mineralisation flux OOPS2	gP/m ³ /d	1.00	PO4	BMS2_OOP
dMinOOPS2	mineralisation flux OOPS2	gP/m ³ /d	0.03	H+	BMS2_OOP
dMinOOPS2	mineralisation flux OOPS2	gP/m ³ /d	-1.97	ALKA	BMS2_OOP
dSWMnOOPS2	SWITCH mineralisation flux OOP in layer S2	gP/m ³ /d	-1.00	OOPS2	BMS2_OOP
dSWMnOOPS2	SWITCH mineralisation flux OOP in layer S2	gP/m ³ /d	0.03	H+	BMS2_OOP
dSWMnOOPS2	SWITCH mineralisation flux OOP in layer S2	gP/m ³ /d	-1.97	ALKA	BMS2_OOP
dMinOOSiS1	mineralisation flux OOSiS1	gSi/m ³ /d	-1.00	OOSiS1	BMS1_OOSi
dMinOOSiS1	mineralisation flux OOSiS1	gSi/m ³ /d	1.00	Si	BMS1_OOSi
dSWMnOOSiS1	SWITCH mineralisation flux OOSi in layer S1	gSi/m ³ /d	-1.00	OOSiS1	BMS1_OOSi
dMinOOSiS2	mineralisation flux OOSiS2	gSi/m ³ /d	-1.00	OOSiS2	BMS2_OOSi
dMinOOSiS2	mineralisation flux OOSiS2	gSi/m ³ /d	1.00	Si	BMS2_OOSi
dSWMnOOSiS2	SWITCH mineralisation flux OOSi in layer S2	gSi/m ³ /d	-1.00	OOSiS2	BMS2_OOSi
dDesoAAPS1	desorption flux AAP layer S1	gP/m ³ /d	-1.00	AAPS1	Deso_AAPS1
dDesoAAPS1	desorption flux AAP layer S1	gP/m ³ /d	1.00	PO4	Deso_AAPS1

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dSWDeAAPS1	desorption flux AAP from layer S1	gP/m ³ /d	-1.00	AAPS1	Deso_AAPS1
dSWDeAAPS1	desorption flux AAP from layer S1	gP/m ³ /d	1.00	PO4	Deso_AAPS1
dDesoAAPS2	desorption flux AAP sediment S2	gP/m ³ /d	-1.00	AAPS2	Deso_AAPS2
dDesoAAPS2	desorption flux AAP sediment S2	gP/m ³ /d	1.00	PO4	Deso_AAPS2
dSWDeAAPS2	desorption flux AAP from layer S2	gP/m ³ /d	-1.00	AAPS2	Deso_AAPS2
dSWDeAAPS2	desorption flux AAP from layer S2	gP/m ³ /d	1.00	PO4	Deso_AAPS2
dCBOD5	decay flux of CBOD5	gO2/m ³ /d	-1.00	CBOD5	BODCOD
dCBOD5_2	decay flux of CBOD5_2	gO2/m ³ /d	-1.00	CBOD5_2	BODCOD
dCBODu	decay flux of CBODu	gO2/m ³ /d	-1.00	CBODu	BODCOD
dCBODu_2	decay flux of CBODu_2	gO2/m ³ /d	-1.00	CBODu_2	BODCOD
dNBOD5	decay flux of NBOD5	gO2/m ³ /d	-1.00	NBOD5	BODCOD
dNBODu	decay flux of NBODu	gO2/m ³ /d	-1.00	NBODu	BODCOD
dCOD_Cr	decay flux of COD_Cr	gO2/m ³ /d	-1.00	COD_Cr	BODCOD
dCOD_Mn	decay flux of COD_Mn	gO2/m ³ /d	-1.00	COD_Mn	BODCOD
dOxyBODCOD	oxygen consumption from decay BOD and COD	gO2/m ³ /d	-1.00	OXY	BODCOD
dCBOD5T	TEWOR decay flux of CBOD5	gO2/m ³ /d	-1.00	CBOD5	DBOD_TEWOR
dCBOD5_2T	TEWOR decay flux of CBOD5_2	gO2/m ³ /d	-1.00	CBOD5_2	DBOD_TEWOR
dCBOD5_3T	TEWOR decay flux of CBOD5_3	gO2/m ³ /d	-1.00	CBOD5_3	DBOD_TEWOR
dCBODOXYT	TEWOR oxygen demand by decay of BODU	gO2/m ³ /d	-1.00	OXY	DBOD_TEWOR
dCnvPPOC1	conversion flux POC1 to POC2	gC/m ³ /d	-1.00	POC1	DecFast
dCnvPPOC1	conversion flux POC1 to POC2	gC/m ³ /d	1.00	POC2	DecFast
dCnvPPON1	conversion flux PON1 to PON2	gN/m ³ /d	-1.00	PON1	DecFast
dCnvPPON1	conversion flux PON1 to PON2	gN/m ³ /d	1.00	PON2	DecFast
dCnvPPOP1	conversion flux POP1 to POP2	gP/m ³ /d	-1.00	POP1	DecFast
dCnvPPOP1	conversion flux POP1 to POP2	gP/m ³ /d	1.00	POP2	DecFast
dCnvPPOS1	conversion flux POS1 to POS2	gS/m ³ /d	-1.00	POS1	DecFast
dCnvPPOS1	conversion flux POS1 to POS2	gS/m ³ /d	1.00	POS2	DecFast
dCnvDPOC1	conversion flux POC1 to DOC	gC/m ³ /d	-1.00	POC1	DecFast
dCnvDPOC1	conversion flux POC1 to DOC	gC/m ³ /d	1.00	DOC	DecFast
dCnvDPON1	conversion flux PON1 to DON	gN/m ³ /d	-1.00	PON1	DecFast
dCnvDPON1	conversion flux PON1 to DON	gN/m ³ /d	1.00	DON	DecFast
dCnvDPOP1	conversion flux POP1 to DOP	gP/m ³ /d	-1.00	POP1	DecFast
dCnvDPOP1	conversion flux POP1 to DOP	gP/m ³ /d	1.00	DOP	DecFast
dCnvDPOS1	conversion flux POS1 to DOS	gS/m ³ /d	-1.00	POS1	DecFast
dCnvDPOS1	conversion flux POS1 to DOS	gS/m ³ /d	1.00	DOS	DecFast
dMinPOC1G	mineralization flux POC1 to CO2	gC/m ³ /d	-1.00	POC1	DecFast
dMinPON1	mineralization flux PON1 to NH4	gN/m ³ /d	-1.00	PON1	DecFast
dMinPON1	mineralization flux PON1 to NH4	gN/m ³ /d	1.00	NH4	DecFast
dMinPOP1	mineralization flux POP1 to PO4	gP/m ³ /d	-1.00	POP1	DecFast
dMinPOP1	mineralization flux POP1 to PO4	gP/m ³ /d	1.00	PO4	DecFast
dMinPOS1	mineralization flux POS1 to SUD	gS/m ³ /d	-1.00	POS1	DecFast
dMinPOS1	mineralization flux POS1 to SUD	gS/m ³ /d	1.00	SUD	DecFast
dCnvPPOC2	conversion flux POC2 to POC3	gC/m ³ /d	-1.00	POC2	DecMedium
dCnvPPOC2	conversion flux POC2 to POC3	gC/m ³ /d	1.00	POC3	DecMedium
dCnvPPON2	conversion flux PON2 to PON3	gN/m ³ /d	-1.00	PON2	DecMedium
dCnvPPON2	conversion flux PON2 to PON3	gN/m ³ /d	1.00	PON3	DecMedium
dCnvPPOP2	conversion flux POP2 to POP3	gP/m ³ /d	-1.00	POP2	DecMedium
dCnvPPOP2	conversion flux POP2 to POP3	gP/m ³ /d	1.00	POP3	DecMedium
dCnvPPOS2	conversion flux POS2 to POS3	gS/m ³ /d	-1.00	POS2	DecMedium
dCnvPPOS2	conversion flux POS2 to POS3	gS/m ³ /d	1.00	POS3	DecMedium
dCnvDPOC2	conversion flux POC2 to DOC	gC/m ³ /d	-1.00	POC2	DecMedium
dCnvDPOC2	conversion flux POC2 to DOC	gC/m ³ /d	1.00	DOC	DecMedium
dCnvDPON2	conversion flux PON2 to DON	gN/m ³ /d	-1.00	PON2	DecMedium
dCnvDPON2	conversion flux PON2 to DON	gN/m ³ /d	1.00	DON	DecMedium
dCnvDPOP2	conversion flux POP2 to DOP	gP/m ³ /d	-1.00	POP2	DecMedium
dCnvDPOP2	conversion flux POP2 to DOP	gP/m ³ /d	1.00	DOP	DecMedium
dCnvDPOS2	conversion flux POS2 to DOS	gS/m ³ /d	-1.00	POS2	DecMedium
dCnvDPOS2	conversion flux POS2 to DOS	gS/m ³ /d	1.00	DOS	DecMedium
dMinPOC2G	mineralization flux POC2 to CO2	gC/m ³ /d	-1.00	POC2	DecMedium
dMinPON2	mineralization flux PON2 to NH4	gN/m ³ /d	-1.00	PON2	DecMedium
dMinPON2	mineralization flux PON2 to NH4	gN/m ³ /d	1.00	NH4	DecMedium
dMinPOP2	mineralization flux POP2 to PO4	gP/m ³ /d	-1.00	POP2	DecMedium
dMinPOP2	mineralization flux POP2 to PO4	gP/m ³ /d	1.00	PO4	DecMedium
dMinPOS2	mineralization flux POS2 to SUD	gS/m ³ /d	-1.00	POS2	DecMedium
dMinPOS2	mineralization flux POS2 to SUD	gS/m ³ /d	1.00	SUD	DecMedium
dCnvPPOC3	conversion flux POC3 to POC4	gC/m ³ /d	-1.00	POC3	DecSlow

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Flux	Description	Unit	Stoch.	Sub.	Process
dCnvPPOC3	conversion flux POC3 to POC4	gC/m ³ /d	1.00	POC4	DecSlow
dCnvPPON3	conversion flux PON3 to PON4	gN/m ³ /d	-1.00	PON3	DecSlow
dCnvPPON3	conversion flux PON3 to PON4	gN/m ³ /d	1.00	PON4	DecSlow
dCnvPPOP3	conversion flux POP3 to POP4	gP/m ³ /d	-1.00	POP3	DecSlow
dCnvPPOP3	conversion flux POP3 to POP4	gP/m ³ /d	1.00	POP4	DecSlow
dCnvPPOS3	conversion flux POS3 to POS4	gS/m ³ /d	-1.00	POS3	DecSlow
dCnvPPOS3	conversion flux POS3 to POS4	gS/m ³ /d	1.00	POS4	DecSlow
dCnvDPOC3	conversion flux POC3 to DOC	gC/m ³ /d	-1.00	POC3	DecSlow
dCnvDPOC3	conversion flux POC3 to DOC	gC/m ³ /d	1.00	DOC	DecSlow
dCnvDPON3	conversion flux PON3 to DON	gN/m ³ /d	-1.00	PON3	DecSlow
dCnvDPON3	conversion flux PON3 to DON	gN/m ³ /d	1.00	DON	DecSlow
dCnvDPOP3	conversion flux POP3 to DOP	gP/m ³ /d	-1.00	POP3	DecSlow
dCnvDPOP3	conversion flux POP3 to DOP	gP/m ³ /d	1.00	DOP	DecSlow
dCnvDPOS3	conversion flux POS3 to DOS	gS/m ³ /d	-1.00	POS3	DecSlow
dCnvDPOS3	conversion flux POS3 to DOS	gS/m ³ /d	1.00	DOS	DecSlow
dMinPOC3G	mineralization flux POC3 to CO2	gC/m ³ /d	-1.00	POC3	DecSlow
dMinPON3	mineralization flux PON3 to NH4	gN/m ³ /d	-1.00	PON3	DecSlow
dMinPON3	mineralization flux PON3 to NH4	gN/m ³ /d	1.00	NH4	DecSlow
dMinPOP3	mineralization flux POP3 to PO4	gP/m ³ /d	-1.00	POP3	DecSlow
dMinPOP3	mineralization flux POP3 to PO4	gP/m ³ /d	1.00	PO4	DecSlow
dMinPOS3	mineralization flux POS3 to SUD	gS/m ³ /d	-1.00	POS3	DecSlow
dMinPOS3	mineralization flux POS3 to SUD	gS/m ³ /d	1.00	SUD	DecSlow
dMinPOC4G	mineralization flux POC4 to CO2	gC/m ³ /d	-1.00	POC4	DecRefr
dMinPON4	mineralization flux PON4 to NH4	gN/m ³ /d	-1.00	PON4	DecRefr
dMinPON4	mineralization flux PON4 to NH4	gN/m ³ /d	1.00	NH4	DecRefr
dMinPOP4	mineralization flux POP4 to PO4	gP/m ³ /d	-1.00	POP4	DecRefr
dMinPOP4	mineralization flux POP4 to PO4	gP/m ³ /d	1.00	PO4	DecRefr
dMinPOS4	mineralization flux POS4 to SUD	gS/m ³ /d	-1.00	POS4	DecRefr
dMinPOS4	mineralization flux POS4 to SUD	gS/m ³ /d	1.00	SUD	DecRefr
dMinDOCG	mineralization flux DOC to CO2	gC/m ³ /d	-1.00	DOC	DecDOC
dMinDON	mineralization flux DON to NH4	gN/m ³ /d	-1.00	DON	DecDOC
dMinDON	mineralization flux DON to NH4	gN/m ³ /d	1.00	NH4	DecDOC
dMinDOP	mineralization flux DOP to PO4	gP/m ³ /d	-1.00	DOP	DecDOC
dMinDOP	mineralization flux DOP to PO4	gP/m ³ /d	1.00	PO4	DecDOC
dMinDOS	mineralization flux DOS to SUD	gS/m ³ /d	-1.00	DOS	DecDOC
dMinDOS	mineralization flux DOS to SUD	gS/m ³ /d	1.00	SUD	DecDOC
dCnvPPOC5	conversion flux POC5 to POC4	gC/m ³ /d	-1.00	POC5	DecPOC5
dCnvPPOC5	conversion flux POC5 to POC4	gC/m ³ /d	1.00	POC4	DecPOC5
dCnvPPON5	conversion flux PON5 to PON4	gN/m ³ /d	-1.00	PON5	DecPOC5
dCnvPPON5	conversion flux PON5 to PON4	gN/m ³ /d	1.00	PON4	DecPOC5
dCnvPPOP5	conversion flux POP5 to POP4	gP/m ³ /d	-1.00	POP5	DecPOC5
dCnvPPOP5	conversion flux POP5 to POP4	gP/m ³ /d	1.00	POP4	DecPOC5
dCnvPPOS5	conversion flux POS5 to POS4	gS/m ³ /d	-1.00	POS5	DecPOC5
dCnvPPOS5	conversion flux POS5 to POS4	gS/m ³ /d	1.00	POS4	DecPOC5
dCnvDPOC5	conversion flux POC5 to DOC	gC/m ³ /d	-1.00	POC5	DecPOC5
dCnvDPOC5	conversion flux POC5 to DOC	gC/m ³ /d	1.00	DOC	DecPOC5
dCnvDPON5	conversion flux PON5 to DON	gN/m ³ /d	-1.00	PON5	DecPOC5
dCnvDPON5	conversion flux PON5 to DON	gN/m ³ /d	1.00	DON	DecPOC5
dCnvDPOP5	conversion flux POP5 to DOP	gP/m ³ /d	-1.00	POP5	DecPOC5
dCnvDPOP5	conversion flux POP5 to DOP	gP/m ³ /d	1.00	DOP	DecPOC5
dCnvDPOS5	conversion flux POS5 to DOS	gS/m ³ /d	-1.00	POS5	DecPOC5
dCnvDPOS5	conversion flux POS5 to DOS	gS/m ³ /d	1.00	DOS	DecPOC5
dMinPOC5G	mineralisation flux POC5 to CO2	gC/m ³ /d	-1.00	POC5	DecPOC5
dMinPON5	mineralisation flux PON5 to NH4	gN/m ³ /d	-1.00	PON5	DecPOC5
dMinPON5	mineralisation flux PON5 to NH4	gN/m ³ /d	1.00	NH4	DecPOC5
dMinPOP5	mineralisation flux POP5 to PO4	gP/m ³ /d	-1.00	POP5	DecPOC5
dMinPOP5	mineralisation flux POP5 to PO4	gP/m ³ /d	1.00	PO4	DecPOC5
dMinPOS5	mineralisation flux POS5 to SO4	gS/m ³ /d	-1.00	POS5	DecPOC5
dMinPOS5	mineralisation flux POS5 to SO4	gS/m ³ /d	1.00	SUD	DecPOC5
dMinPOC5E	min. flux POC5 to CO2 emersed	gC/m ³ /d	-1.00	POC5	DecPOC5
dMinPOC5E	min. flux POC5 to CO2 emersed	gC/m ³ /d	-2.67	OXY	DecPOC5
dMinPOC5E	min. flux POC5 to CO2 emersed	gC/m ³ /d	1.00	TIC	DecPOC5
dMinPOC5E	min. flux POC5 to CO2 emersed	gC/m ³ /d	1.50	H2O	DecPOC5
dMinPOC5A	min. flux POC5 to CO2 atmosphere	gC/m ³ /d	2.67	OXY	DecPOC5
dMinPOC5A	min. flux POC5 to CO2 atmosphere	gC/m ³ /d	-1.00	TIC	DecPOC5
dPrecipPO4	precipitation flux PO4 to vivianite	gP/m ³ /d	-1.00	PO4	Vivianit
dPrecipPO4	precipitation flux PO4 to vivianite	gP/m ³ /d	1.00	VIVP	Vivianit
dDissolPO4	dissolution flux vivianite to PO4	gP/m ³ /d	1.00	PO4	Vivianit

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Flux	Description	Unit	Stoch.	Sub.	Process
dDissolPO4	dissolution flux vivianite to PO4	gP/m ³ /d	-1.00	VIVP	Vivianit
dDissolSi	dissolution flux Opal to Si	gSi/m ³ /d	1.00	Si	DisSi
dDissolSi	dissolution flux Opal to Si	gSi/m ³ /d	-1.00	Opal	DisSi
dSOD	decay flux of SOD	gO2/m ³ /d	-1.00	SOD	SedOXYDem
dOxSOD	oxygen consumption from SOD	gO2/m ³ /d	-1.00	OXY	SedOXYDem
dPPGreen	net primary production of Greens	gC/m ³ /d	2.67	OXY	GroMrt_Gre
dPPGreen	net primary production of Greens	gC/m ³ /d	-1.00	TIC	GroMrt_Gre
dPPGreen	net primary production of Greens	gC/m ³ /d	-1.50	H2O	GroMrt_Gre
dPPGreen	net primary production of Greens	gC/m ³ /d	1.00	Green	GroMrt_Gre
dMrtGreen	mortality of Greens	gC/m ³ /d	-1.00	Green	GroMrt_Gre
dPPDiat	net primary production of Diatoms	gC/m ³ /d	2.67	OXY	GroMrt_Dia
dPPDiat	net primary production of Diatoms	gC/m ³ /d	-1.00	TIC	GroMrt_Dia
dPPDiat	net primary production of Diatoms	gC/m ³ /d	-1.50	H2O	GroMrt_Dia
dPPDiat	net primary production of Diatoms	gC/m ³ /d	1.00	Diat	GroMrt_Dia
dMrtDiat	mortality of Diatoms	gC/m ³ /d	-1.00	Diat	GroMrt_Dia
dPPDiatS1	net primary production of Diatoms in layer S1	gC/m ³ /d	2.67	OXY	GroMrt_DS1
dPPDiatS1	net primary production of Diatoms in layer S1	gC/m ³ /d	-1.00	TIC	GroMrt_DS1
dPPDiatS1	net primary production of Diatoms in layer S1	gC/m ³ /d	-1.50	H2O	GroMrt_DS1
dPPDiatS1	net primary production of Diatoms in layer S1	gC/m ³ /d	1.00	DiatS1	GroMrt_DS1
dMrtDiatS1	mortality of Diatoms in layer S1	gC/m ³ /d	-1.00	DiatS1	GroMrt_DS1
dNH4UptS1	NH4 uptake by algae growth in layer S1	gN/m ³ /d	-1.00	NH4	GroMrt_DS1
dNH4UptS1	NH4 uptake by algae growth in layer S1	gN/m ³ /d	0.07	H+	GroMrt_DS1
dNH4UptS1	NH4 uptake by algae growth in layer S1	gN/m ³ /d	-4.36	ALKA	GroMrt_DS1
dNO3UptS1	uptake of NO3 by algae growth in layer S1	gN/m ³ /d	-1.00	NO3	GroMrt_DS1
dNO3UptS1	uptake of NO3 by algae growth in layer S1	gN/m ³ /d	4.57	OXY	GroMrt_DS1
dNO3UptS1	uptake of NO3 by algae growth in layer S1	gN/m ³ /d	-0.07	H+	GroMrt_DS1
dNO3UptS1	uptake of NO3 by algae growth in layer S1	gN/m ³ /d	4.36	ALKA	GroMrt_DS1
dNO3UptS1	uptake of NO3 by algae growth in layer S1	gN/m ³ /d	-1.29	H2O	GroMrt_DS1
dPO4UptS1	PO4 uptake by algae growth in layer S1	gP/m ³ /d	-1.00	PO4	GroMrt_DS1
dPO4UptS1	PO4 uptake by algae growth in layer S1	gP/m ³ /d	-0.03	H+	GroMrt_DS1
dPO4UptS1	PO4 uptake by algae growth in layer S1	gP/m ³ /d	1.97	ALKA	GroMrt_DS1
dSiUptS1	Si uptake by algae growth in layer S1	gSi/m ³ /d	-1.00	Si	GroMrt_DS1
dNH4US1D	NH4 uptake by algae growth from detritus	gN/m ³ /d	-1.00	NH4	GroMrt_DS1
dNH4US1D	NH4 uptake by algae growth from detritus	gN/m ³ /d	0.07	H+	GroMrt_DS1
dNH4US1D	NH4 uptake by algae growth from detritus	gN/m ³ /d	-4.36	ALKA	GroMrt_DS1
dPO4US1D	PO4 uptake by algae growth from detritus	gP/m ³ /d	-1.00	PO4	GroMrt_DS1
dPO4US1D	PO4 uptake by algae growth from detritus	gP/m ³ /d	-0.03	H+	GroMrt_DS1
dPO4US1D	PO4 uptake by algae growth from detritus	gP/m ³ /d	1.97	ALKA	GroMrt_DS1
dSiUS1D	Si uptake by algae growth from detritus	gSi/m ³ /d	-1.00	Si	GroMrt_DS1
dcPPGreen	correction flux Greens growth	gN/m ³ /d	2.67	OXY	PPrLim
dcPPGreen	correction flux Greens growth	gN/m ³ /d	-1.00	TIC	PPrLim
dcPPGreen	correction flux Greens growth	gN/m ³ /d	-1.50	H2O	PPrLim
dcPPGreen	correction flux Greens growth	gN/m ³ /d	1.00	Green	PPrLim
dcPPDiat	correction flux Diatoms growth	gN/m ³ /d	2.67	OXY	PPrLim
dcPPDiat	correction flux Diatoms growth	gN/m ³ /d	-1.00	TIC	PPrLim
dcPPDiat	correction flux Diatoms growth	gN/m ³ /d	-1.50	H2O	PPrLim
dcPPDiat	correction flux Diatoms growth	gN/m ³ /d	1.00	Diat	PPrLim
dMortDetC	production of DetC by mortality phytoplankton	gC/m ³ /d	1.00	POC1	NutRel_Alg
dMortOOC	production of OOC by mortality phytoplankton	gC/m ³ /d	1.00	POC2	NutRel_Alg
dNH4Aut	autolysis flux of NH4	gN/m ³ /d	1.00	NH4	NutRel_Alg
dNH4Aut	autolysis flux of NH4	gN/m ³ /d	-0.07	H+	NutRel_Alg

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Flux	Description	Unit	Stoch.	Sub.	Process
dNH4Aut	autolysis flux of NH4	gN/m ³ /d	4.36	ALKA	NutRel_Alg
dMortDetN	production of DetN by mortality phyto-plankton	gN/m ³ /d	1.00	PON1	NutRel_Alg
dMortOON	production of OON by mortality phyto-plankton	gN/m ³ /d	1.00	PON2	NutRel_Alg
dPO4Aut	autolysis of PO4	gP/m ³ /d	1.00	PO4	NutRel_Alg
dPO4Aut	autolysis of PO4	gP/m ³ /d	0.03	H+	NutRel_Alg
dPO4Aut	autolysis of PO4	gP/m ³ /d	-1.97	ALKA	NutRel_Alg
dMortDetP	production of DetP by mortality phyto-plankton	gP/m ³ /d	1.00	POP1	NutRel_Alg
dMortOOP	production of OOP by mortality phyto-plankton	gP/m ³ /d	1.00	POP2	NutRel_Alg
dMortDetSi	production of DetSi by mortality phyto-plankton	gSi/m ³ /d	1.00	Opal	NutRel_Alg
dMortOOSi	production of OOSi by mortality phyto-plankton	gSi/m ³ /d	1.00	Opal	NutRel_Alg
dMrtDetCS1	mortality algae in layer S1 to DetC	gC/m ³ /d	1.00	DetCS1	NRAIg_S1
dMrtOOCs1	mortality algae to OOC in layer S1	gC/m ³ /d	1.00	OOCs1	NRAIg_S1
dNH4AUTS1	autolysis algae to NH4 in layer S1	gN/m ³ /d	1.00	NH4	NRAIg_S1
dNH4AUTS1	autolysis algae to NH4 in layer S1	gN/m ³ /d	-0.07	H+	NRAIg_S1
dNH4AUTS1	autolysis algae to NH4 in layer S1	gN/m ³ /d	4.36	ALKA	NRAIg_S1
dMrtDetNS1	mortality algae in layer S1 to DetN	gN/m ³ /d	1.00	DetNS1	NRAIg_S1
dMrtOONS1	mortality algae to OON in layer S1	gN/m ³ /d	1.00	OONS1	NRAIg_S1
dPO4AUTS1	autolysis algae in layer S1 to PO4	gP/m ³ /d	1.00	PO4	NRAIg_S1
dPO4AUTS1	autolysis algae in layer S1 to PO4	gP/m ³ /d	0.03	H+	NRAIg_S1
dPO4AUTS1	autolysis algae in layer S1 to PO4	gP/m ³ /d	-1.97	ALKA	NRAIg_S1
dMrtDetPS1	mortality algae in layer S1 to DetP	gP/m ³ /d	1.00	DetPS1	NRAIg_S1
dMrtOOPS1	mortality algae to OOP in layer S1	gP/m ³ /d	1.00	OOPS1	NRAIg_S1
dSiAUTS1	autolysis algae in layer S1 to Si	gSi/m ³ /d	1.00	Si	NRAIg_S1
dMrtDetSS1	mortality algae in layer S1 to DetSi	gSi/m ³ /d	1.00	DetSiS1	NRAIg_S1
dMrtOOSs1	mortality algae to OOSi in layer S1	gSi/m ³ /d	1.00	OOSiS1	NRAIg_S1
dDumOXYMin	dummy flux to access OXYMin	-	0.00	OXY	OXYMin
dDumOXYMin	dummy flux to access OXYMin	-	0.00	GREEN	OXYMin
dDumOXYMin	dummy flux to access OXYMin	-	0.00	DIAT	OXYMin
dOxCon	mineralisation flux oxidised with DO	gC/m ³ /d	-2.67	OXY	CONSELAC
dOxCon	mineralisation flux oxidised with DO	gC/m ³ /d	1.00	TIC	CONSELAC
dOxCon	mineralisation flux oxidised with DO	gC/m ³ /d	1.50	H2O	CONSELAC
dOxCon	mineralisation flux oxidised with DO	gC/m ³ /d	0.00	POC1	CONSELAC
dOxCon	mineralisation flux oxidised with DO	gC/m ³ /d	0.00	POC2	CONSELAC
dOxCon	mineralisation flux oxidised with DO	gC/m ³ /d	0.00	POC3	CONSELAC
dOxCon	mineralisation flux oxidised with DO	gC/m ³ /d	0.00	POC4	CONSELAC
dNiDen	mineralisation flux oxidised with nitrate	gC/m ³ /d	-0.93	NO3	CONSELAC
dNiDen	mineralisation flux oxidised with nitrate	gC/m ³ /d	1.00	TIC	CONSELAC
dNiDen	mineralisation flux oxidised with nitrate	gC/m ³ /d	2.10	H2O	CONSELAC
dNiDen	mineralisation flux oxidised with nitrate	gC/m ³ /d	-0.07	H+	CONSELAC
dNiDen	mineralisation flux oxidised with nitrate	gC/m ³ /d	4.07	Alka	CONSELAC
dFeRed	mineralisation flux oxid. with iron	gC/m ³ /d	-18.60	FellIpa	CONSELAC
dFeRed	mineralisation flux oxid. with iron	gC/m ³ /d	18.60	FellId	CONSELAC
dFeRed	mineralisation flux oxid. with iron	gC/m ³ /d	1.00	TIC	CONSELAC
dFeRed	mineralisation flux oxid. with iron	gC/m ³ /d	40.67	Alka	CONSELAC
dSuRed	mineralisation flux oxid. with sulphate	gC/m ³ /d	-1.33	SO4	CONSELAC
dSuRed	mineralisation flux oxid. with sulphate	gC/m ³ /d	1.33	SUD	CONSELAC
dSuRed	mineralisation flux oxid. with sulphate	gC/m ³ /d	1.00	TIC	CONSELAC
dSuRed	mineralisation flux oxid. with sulphate	gC/m ³ /d	1.50	H2O	CONSELAC
dMetGenCH4	mineralisation flux conv. into methane	gC/m ³ /d	1.00	CH4	CONSELAC
dMetGenCO2	min. flux conv. methanogenesis into CO2	gC/m ³ /d	1.00	TIC	CONSELAC
dMetEbul	methane ebullition flux	gC/m ³ /d	-1.00	CH4	EBULCH4
dVolCH4	reaeration flux	gC/m ³ /d	1.00	CH4	VolatCH4
dSUDox	sulphide oxidation flux	gS/m ³ /d	-1.00	SUD	OXIDSUD
dSUDox	sulphide oxidation flux	gS/m ³ /d	-2.00	OXY	OXIDSUD
dSUDox	sulphide oxidation flux	gS/m ³ /d	1.00	SO4	OXIDSUD
dSUDprec	sulphide precipitation flux	gS/m ³ /d	-1.00	SUD	PRECSUL
dSUDprec	sulphide precipitation flux	gS/m ³ /d	1.00	SUP	PRECSUL
dSUDdis	sulphide dissolution flux	gS/m ³ /d	1.00	SUD	PRECSUL
dSUDdis	sulphide dissolution flux	gS/m ³ /d	-1.00	SUP	PRECSUL
dMethoxDO	methane oxidation flux with DO	gC/m ³ /d	-1.00	CH4	OXIDCH4
dMethoxDO	methane oxidation flux with DO	gC/m ³ /d	-5.33	OXY	OXIDCH4

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dMethoxDO	methane oxidation flux with DO	gC/m ³ /d	1.00	TIC	OXIDCH4
dMethoxDO	methane oxidation flux with DO	gC/m ³ /d	3.00	H2O	OXIDCH4
dMethoxSu	methane oxidation flux with sulphate	gC/m ³ /d	-1.00	CH4	OXIDCH4
dMethoxSu	methane oxidation flux with sulphate	gC/m ³ /d	-2.67	SO4	OXIDCH4
dMethoxSu	methane oxidation flux with sulphate	gC/m ³ /d	1.00	TIC	OXIDCH4
dMethoxSu	methane oxidation flux with sulphate	gC/m ³ /d	2.67	SUD	OXIDCH4
dMethoxSu	methane oxidation flux with sulphate	gC/m ³ /d	3.00	H2O	OXIDCH4
dMethoxSu	methane oxidation flux with sulphate	gC/m ³ /d	0.33	H+	OXIDCH4
dioo	rate of iron oxidation with oxygen	gFe/m ³ /d	-1.00	Felld	IRONOX
dioo	rate of iron oxidation with oxygen	gFe/m ³ /d	-0.14	OXY	IRONOX
dioo	rate of iron oxidation with oxygen	gFe/m ³ /d	1.00	Felld	IRONOX
dion	rate of iron oxidation with nitrate	gFe/m ³ /d	-1.00	Felld	IRONOX
dion	rate of iron oxidation with nitrate	gFe/m ³ /d	-0.05	NO3	IRONOX
dion	rate of iron oxidation with nitrate	gFe/m ³ /d	1.00	Felld	IRONOX
dFeSox	rate of iron sulphide oxidation	gFe/m ³ /d	-1.00	FeS	SULPHOX
dFeSox	rate of iron sulphide oxidation	gFe/m ³ /d	-1.14	OXY	SULPHOX
dFeSox	rate of iron sulphide oxidation	gFe/m ³ /d	1.00	Felld	SULPHOX
dFeSox	rate of iron sulphide oxidation	gFe/m ³ /d	0.57	SO4	SULPHOX
dFeS2ox	rate of of pyrite oxidation	gFe/m ³ /d	-1.00	FeS2	SULPHOX
dFeS2ox	rate of of pyrite oxidation	gFe/m ³ /d	-2.00	OXY	SULPHOX
dFeS2ox	rate of of pyrite oxidation	gFe/m ³ /d	1.00	Felld	SULPHOX
dFeS2ox	rate of of pyrite oxidation	gFe/m ³ /d	1.14	SO4	SULPHOX
dFeS2ox	rate of of pyrite oxidation	gFe/m ³ /d	-2.39	Alka	SULPHOX
dire1	rate of amorphous iron red. with H2S	gFe/m ³ /d	-1.00	Felld	IRONRED
dire1	rate of amorphous iron red. with H2S	gFe/m ³ /d	-0.07	SUD	IRONRED
dire1	rate of amorphous iron red. with H2S	gFe/m ³ /d	1.00	Felld	IRONRED
dire1	rate of amorphous iron red. with H2S	gFe/m ³ /d	0.07	SO4	IRONRED
dire1	rate of amorphous iron red. with H2S	gFe/m ³ /d	2.09	Alka	IRONRED
dire2	rate of crystalline iron red. with H2S	gFe/m ³ /d	-1.00	Felld	IRONRED
dire2	rate of crystalline iron red. with H2S	gFe/m ³ /d	-0.07	SUD	IRONRED
dire2	rate of crystalline iron red. with H2S	gFe/m ³ /d	1.00	Felld	IRONRED
dire2	rate of crystalline iron red. with H2S	gFe/m ³ /d	0.07	SO4	IRONRED
dire2	rate of crystalline iron red. with H2S	gFe/m ³ /d	2.09	Alka	IRONRED
dire3	rate of amorphous iron red. with FeS	gFe/m ³ /d	-1.00	Felld	IRONRED
dire3	rate of amorphous iron red. with FeS	gFe/m ³ /d	-0.12	Fes	IRONRED
dire3	rate of amorphous iron red. with FeS	gFe/m ³ /d	1.12	Felld	IRONRED
dire3	rate of amorphous iron red. with FeS	gFe/m ³ /d	0.07	SO4	IRONRED
dire3	rate of amorphous iron red. with FeS	gFe/m ³ /d	2.13	Alka	IRONRED
dire4	rate of crystalline iron red. with FeS	gFe/m ³ /d	-1.00	Felld	IRONRED
dire4	rate of crystalline iron red. with FeS	gFe/m ³ /d	-0.12	Fes	IRONRED
dire4	rate of crystalline iron red. with FeS	gFe/m ³ /d	1.12	Felld	IRONRED
dire4	rate of crystalline iron red. with FeS	gFe/m ³ /d	0.07	SO4	IRONRED
dire4	rate of crystalline iron red. with FeS	gFe/m ³ /d	2.13	Alka	IRONRED
dpfe3	rate of amorphous ironIII precipitat.	gFe/m ³ /d	-1.00	Felld	PRIRON
dpfe3	rate of amorphous ironIII precipitat.	gFe/m ³ /d	1.00	Felld	PRIRON
dpfe3	rate of amorphous ironIII precipitat.	gFe/m ³ /d	-3.59	Alka	PRIRON
ddfe3	rate of amorphous ironIII dissolution	gFe/m ³ /d	1.00	Felld	PRIRON
ddfe3	rate of amorphous ironIII dissolution	gFe/m ³ /d	-1.00	Felld	PRIRON
ddfe3	rate of amorphous ironIII dissolution	gFe/m ³ /d	3.59	Alka	PRIRON
dafe3	rate of amorphous ironIII aging	gFe/m ³ /d	-1.00	Felld	PRIRON
dafe3	rate of amorphous ironIII aging	gFe/m ³ /d	1.00	Felld	PRIRON
dpfes	rate of ironII sulphide precipitation	gFe/m ³ /d	-1.00	Felld	PRIRON
dpfes	rate of ironII sulphide precipitation	gFe/m ³ /d	1.00	FeS	PRIRON
dpfes	rate of ironII sulphide precipitation	gFe/m ³ /d	-0.57	SUD	PRIRON
ddfes	rate of ironII sulphide dissolution	gFe/m ³ /d	1.00	Felld	PRIRON
ddfes	rate of ironII sulphide dissolution	gFe/m ³ /d	-1.00	FeS	PRIRON
ddfes	rate of ironII sulphide dissolution	gFe/m ³ /d	0.57	SUD	PRIRON
dpfeco3	rate of ironII carbonate precipitation	gFe/m ³ /d	-1.00	Felld	PRIRON
dpfeco3	rate of ironII carbonate precipitation	gFe/m ³ /d	1.00	FeCO3	PRIRON
dpfeco3	rate of ironII carbonate precipitation	gFe/m ³ /d	-0.21	TIC	PRIRON
dpfeco3	rate of ironII carbonate precipitation	gFe/m ³ /d	-2.39	Alka	PRIRON
ddfeco3	rate of ironII carbonate dissolution	gFe/m ³ /d	1.00	Felld	PRIRON
ddfeco3	rate of ironII carbonate dissolution	gFe/m ³ /d	-1.00	FeCO3	PRIRON
ddfeco3	rate of ironII carbonate dissolution	gFe/m ³ /d	0.21	TIC	PRIRON
ddfeco3	rate of ironII carbonate dissolution	gFe/m ³ /d	2.39	Alka	PRIRON
dpyr	rate of pyrite formation	gFe/m ³ /d	-1.00	FeS	PRIRON
dpyr	rate of pyrite formation	gFe/m ³ /d	1.00	FeS2	PRIRON
dpyr	rate of pyrite formation	gFe/m ³ /d	-0.57	SUD	PRIRON

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Flux	Description	Unit	Stoch.	Sub.	Process
dRIM1S2Pup	pick-up resuspension flux IM1 from S2	g/m ³ /d	1.00	IM1	Res_Pickup
dRIM1S2Pup	pick-up resuspension flux IM1 from S2	g/m ³ /d	-1.00	IM1S2	Res_Pickup
dRIM2S2Pup	pick-up resuspension flux IM2 from S2	g/m ³ /d	1.00	IM2	Res_Pickup
dRIM2S2Pup	pick-up resuspension flux IM2 from S2	g/m ³ /d	-1.00	IM2S2	Res_Pickup
dRIM3S2Pup	pick-up resuspension flux IM3 from S2	g/m ³ /d	1.00	IM3	Res_Pickup
dRIM3S2Pup	pick-up resuspension flux IM3 from S2	g/m ³ /d	-1.00	IM3S2	Res_Pickup
dSedIM1	sedimentation flux of IM1 towards S1	g/m ³ /d	-1.00	IM1	Sed_IM1
dSedIM1	sedimentation flux of IM1 towards S1	g/m ³ /d	1.00	IM1S1	Sed_IM1
dSedIM1S2	sedimentation flux of IM1 towards S2	g/m ³ /d	-1.00	IM1	Sed_IM1
dSedIM1S2	sedimentation flux of IM1 towards S2	g/m ³ /d	1.00	IM1S2	Sed_IM1
dSedIM2	sedimentation flux of IM2 towards S1	g/m ³ /d	-1.00	IM2	Sed_IM2
dSedIM2	sedimentation flux of IM2 towards S1	g/m ³ /d	1.00	IM2S1	Sed_IM2
dSedIM2S2	sedimentation flux of IM2 towards S2	g/m ³ /d	-1.00	IM2	Sed_IM2
dSedIM2S2	sedimentation flux of IM2 towards S2	g/m ³ /d	1.00	IM2S2	Sed_IM2
dSedIM3	sedimentation flux of IM3 towards S1	g/m ³ /d	-1.00	IM3	Sed_IM3
dSedIM3	sedimentation flux of IM3 towards S1	g/m ³ /d	1.00	IM3S1	Sed_IM3
dSedIM3S2	sedimentation flux of IM3 towards S2	g/m ³ /d	-1.00	IM3	Sed_IM3
dSedIM3S2	sedimentation flux of IM3 towards S2	g/m ³ /d	1.00	IM3S2	Sed_IM3
dSedDiat	sedimentation flux Diatoms	gC/m ³ /d	-1.00	Diat	SedDiat
dSedGreen	sedimentation flux Greens	gC/m ³ /d	-1.00	Green	Sed_Gre
dSedAlg	sedimentation flux algae	gC/m ³ /d	-1.00	APHANFIX	SEDALG
dSedAlg	sedimentation flux algae	gC/m ³ /d	-1.00	APHANIZO	SEDALG
dSedAlg	sedimentation flux algae	gC/m ³ /d	-1.00	BLUEGRN	SEDALG
dSedAlg	sedimentation flux algae	gC/m ³ /d	-1.00	DINOFLAG	SEDALG
dSedAlg	sedimentation flux algae	gC/m ³ /d	-1.00	DINOMIX	SEDALG
dSedAlg	sedimentation flux algae	gC/m ³ /d	-1.00	FDIATOMS	SEDALG
dSedAlg	sedimentation flux algae	gC/m ³ /d	-1.00	FFLAGELA	SEDALG
dSedAlg	sedimentation flux algae	gC/m ³ /d	-1.00	GREENS	SEDALG
dSedAlg	sedimentation flux algae	gC/m ³ /d	-1.00	MDIATOMS	SEDALG
dSedAlg	sedimentation flux algae	gC/m ³ /d	-1.00	MFLAGELA	SEDALG
dSedAlg	sedimentation flux algae	gC/m ³ /d	-1.00	MICROCYS	SEDALG
dSedAlg	sedimentation flux algae	gC/m ³ /d	-1.00	OSCILAT	SEDALG
dSedAlg	sedimentation flux algae	gC/m ³ /d	-1.00	PHAEOCYS	SEDALG
dSedAlg	sedimentation flux algae	gC/m ³ /d	-1.00	UlvaF	SEDALG
dSedAlg	sedimentation flux algae	gC/m ³ /d	-1.00	UlvaS	SEDALG
dSedAlg	sedimentation flux algae	gC/m ³ /d	-1.00	NODULA	SEDALG
dSedAlg	sedimentation flux algae	gC/m ³ /d	-1.00	ANABAENA	SEDALG
dSedAlg	sedimentation flux algae	gC/m ³ /d	-1.00	CYLINFIX	SEDALG
dSedAlg	sedimentation flux algae	gC/m ³ /d	-1.00	ARTHROSP	SEDALG
dSedAlg	sedimentation flux algae	gC/m ³ /d	-1.00	PLANKTOL	SEDALG
dSedAlg	sedimentation flux algae	gC/m ³ /d	-1.00	PSEUDOAN	SEDALG
dSedAlg01	sedimentation flux algae type 01	gC/m ³ /d	-1.00	BLOOMALG01	SEDALG01
dSedAlg02	sedimentation flux algae type 02	gC/m ³ /d	-1.00	BLOOMALG02	SEDALG02
dSedAlg03	sedimentation flux algae type 03	gC/m ³ /d	-1.00	BLOOMALG03	SEDALG03
dSedAlg04	sedimentation flux algae type 04	gC/m ³ /d	-1.00	BLOOMALG04	SEDALG04
dSedAlg05	sedimentation flux algae type 05	gC/m ³ /d	-1.00	BLOOMALG05	SEDALG05
dSedAlg06	sedimentation flux algae type 06	gC/m ³ /d	-1.00	BLOOMALG06	SEDALG06
dSedAlg07	sedimentation flux algae type 07	gC/m ³ /d	-1.00	BLOOMALG07	SEDALG07
dSedAlg08	sedimentation flux algae type 08	gC/m ³ /d	-1.00	BLOOMALG08	SEDALG08
dSedAlg09	sedimentation flux algae type 09	gC/m ³ /d	-1.00	BLOOMALG09	SEDALG09
dSedAlg10	sedimentation flux algae type 10	gC/m ³ /d	-1.00	BLOOMALG10	SEDALG10
dSedAlg11	sedimentation flux algae type 11	gC/m ³ /d	-1.00	BLOOMALG11	SEDALG11
dSedAlg12	sedimentation flux algae type 12	gC/m ³ /d	-1.00	BLOOMALG12	SEDALG12
dSedAlg13	sedimentation flux algae type 13	gC/m ³ /d	-1.00	BLOOMALG13	SEDALG13
dSedAlg14	sedimentation flux algae type 14	gC/m ³ /d	-1.00	BLOOMALG14	SEDALG14
dSedAlg15	sedimentation flux algae type 15	gC/m ³ /d	-1.00	BLOOMALG15	SEDALG15
dSedAlg16	sedimentation flux algae type 16	gC/m ³ /d	-1.00	BLOOMALG16	SEDALG16
dSedAlg17	sedimentation flux algae type 17	gC/m ³ /d	-1.00	BLOOMALG17	SEDALG17
dSedAlg18	sedimentation flux algae type 18	gC/m ³ /d	-1.00	BLOOMALG18	SEDALG18
dSedAlg19	sedimentation flux algae type 19	gC/m ³ /d	-1.00	BLOOMALG19	SEDALG19
dSedAlg20	sedimentation flux algae type 20	gC/m ³ /d	-1.00	BLOOMALG20	SEDALG20
dSedAlg21	sedimentation flux algae type 21	gC/m ³ /d	-1.00	BLOOMALG21	SEDALG21
dSedAlg22	sedimentation flux algae type 22	gC/m ³ /d	-1.00	BLOOMALG22	SEDALG22
dSedAlg23	sedimentation flux algae type 23	gC/m ³ /d	-1.00	BLOOMALG23	SEDALG23
dSedAlg24	sedimentation flux algae type 24	gC/m ³ /d	-1.00	BLOOMALG24	SEDALG24
dSedAlg25	sedimentation flux algae type 25	gC/m ³ /d	-1.00	BLOOMALG25	SEDALG25
dSedAlg26	sedimentation flux algae type 26	gC/m ³ /d	-1.00	BLOOMALG26	SEDALG26
dSedAlg27	sedimentation flux algae type 27	gC/m ³ /d	-1.00	BLOOMALG27	SEDALG27

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Flux	Description	Unit	Stoch.	Sub.	Process
dSedAlg28	sedimentation flux algae type 28	gC/m ³ /d	-1.00	BLOOMALG28	SEDALG28
dSedAlg29	sedimentation flux algae type 29	gC/m ³ /d	-1.00	BLOOMALG29	SEDALG29
dSedAlg30	sedimentation flux algae type 30	gC/m ³ /d	-1.00	BLOOMALG30	SEDALG30
dSedBOD5	sedimentation flux CBOD5	gO2/m ³ /d	-1.00	CBOD5	S_CBOD51
dSedBOD5_2	sedimentation flux CBOD5_2	gO2/m ³ /d	-1.00	CBOD5_2	S_CBOD52
dSedBOD5_3	sedimentation flux CBOD5_3	gO2/m ³ /d	-1.00	CBOD5_3	S_CBOD53
dSedBODu	sedimentation flux CBODu	gO2/m ³ /d	-1.00	CBODu	S_CBODu1
dSedBODu_2	sedimentation flux CBODu_2	gO2/m ³ /d	-1.00	CBODu_2	S_CBODu2
dSedCODCr	sedimentation flux COD_Cr	gO2/m ³ /d	-1.00	COD_Cr	S_CODCr
dSedCODMn	sedimentation flux COD_Mn	gO2/m ³ /d	-1.00	COD_Mn	S_CODMn
dSedNBOD5	sedimentation flux NBOD5	gO2/m ³ /d	-1.00	NBOD5	S_NBOD5
dSedNBODu	sedimentation flux NBODu	gO2/m ³ /d	-1.00	NBODu	S_NBODu
dSedSOD	sedimentation flux SOD	gO2/m ³ /d	1.00	SOD	SED_SOD
dSedPHYT	total sedimentation flux algae	gC/m ³ /d	1.00	DetCS1	SedPhBlo_P
dSedAlgN	total sedimentation flux AlgN	gN/m ³ /d	1.00	DetNS1	SedPhBlo_P
dSedAlgP	total sedimentation flux AlgP	gP/m ³ /d	1.00	DetPS1	SedPhBlo_P
dSedAlgSi	total sedimentation flux AlgSi	gSi/m ³ /d	1.00	DetSiS1	SedPhBlo_P
dSedOpal	sedimentation flux of Opal	gSi/m ³ /d	-1.00	Opal	Sed_Opal
dSedOpal	sedimentation flux of Opal	gSi/m ³ /d	1.00	DetSiS1	Sed_Opal
dSedPOC1	sedimentation flux POC1	gC/m ³ /d	-1.00	POC1	Sed_POC1
dSedPOC1	sedimentation flux POC1	gC/m ³ /d	1.00	DetCS1	Sed_POC1
dSedPOC2	sedimentation flux POC2	gC/m ³ /d	-1.00	POC2	Sed_POC2
dSedPOC2	sedimentation flux POC2	gC/m ³ /d	1.00	OOCs1	Sed_POC2
dSedPOC3	sedimentation flux POC3	gC/m ³ /d	-1.00	POC3	Sed_POC3
dSedPOC3	sedimentation flux POC3	gC/m ³ /d	1.00	OOCs1	Sed_POC3
dSedPOC4	sedimentation flux POC4	gC/m ³ /d	-1.00	POC4	Sed_POC4
dSedPOC4	sedimentation flux POC4	gC/m ³ /d	1.00	OOCs1	Sed_POC4
dSedPON1	sedimentation flux PON1	gN/m ³ /d	-1.00	PON1	SedNPOC1
dSedPON1	sedimentation flux PON1	gN/m ³ /d	1.00	DetNS1	SedNPOC1
dSedPOP1	sedimentation flux POP1	gP/m ³ /d	-1.00	POP1	SedNPOC1
dSedPOP1	sedimentation flux POP1	gP/m ³ /d	1.00	DetPS1	SedNPOC1
dSedPOS1	sedimentation flux POS1	gP/m ³ /d	-1.00	POS1	SedNPOC1
dSedPON2	sedimentation flux PON2	gN/m ³ /d	-1.00	PON2	SedNPOC2
dSedPON2	sedimentation flux PON2	gN/m ³ /d	1.00	OONS1	SedNPOC2
dSedPOP2	sedimentation flux POP2	gP/m ³ /d	-1.00	POP2	SedNPOC2
dSedPOP2	sedimentation flux POP2	gP/m ³ /d	1.00	OOPS1	SedNPOC2
dSedPOS2	sedimentation flux POS2	gP/m ³ /d	-1.00	POS2	SedNPOC2
dSedPON3	sedimentation flux PON3	gN/m ³ /d	-1.00	PON3	SedNPOC3
dSedPON3	sedimentation flux PON3	gN/m ³ /d	1.00	OONS1	SedNPOC3
dSedPOP3	sedimentation flux POP3	gP/m ³ /d	-1.00	POP3	SedNPOC3
dSedPOP3	sedimentation flux POP3	gP/m ³ /d	1.00	OOPS1	SedNPOC3
dSedPOS3	sedimentation flux POS3	gP/m ³ /d	-1.00	POS3	SedNPOC3
dSedPON4	sedimentation flux PON4	gN/m ³ /d	-1.00	PON4	SedNPOC4
dSedPON4	sedimentation flux PON4	gN/m ³ /d	1.00	OONS1	SedNPOC4
dSedPOP4	sedimentation flux POP4	gP/m ³ /d	-1.00	POP4	SedNPOC4
dSedPOP4	sedimentation flux POP4	gP/m ³ /d	1.00	OOPS1	SedNPOC4
dSedPOS4	sedimentation flux POS4	gP/m ³ /d	-1.00	POS4	SedNPOC4
dSedAAP	sedimentation flux AAP towards S1	gP/m ³ /d	-1.00	AAP	Sed_AAP
dSedAAP	sedimentation flux AAP towards S1	gP/m ³ /d	1.00	AAPS1	Sed_AAP
dSedAAPS2	sedimentation flux AAP towards S2	gP/m ³ /d	-1.00	AAP	Sed_AAP
dSedAAPS2	sedimentation flux AAP towards S2	gP/m ³ /d	1.00	AAPS2	Sed_AAP
dResS1DetC	resuspension flux DetC from layer S1	gC/m ³ /d	1.00	POC1	S12TraDetC
dResS1DetC	resuspension flux DetC from layer S1	gC/m ³ /d	-1.00	DetCS1	S12TraDetC
dResS2DetC	resuspension flux DetC from layer S2	gC/m ³ /d	1.00	DetCS2	S12TraDetC
dResS2DetC	resuspension flux DetC from layer S2	gC/m ³ /d	-1.00	POC1	S12TraDetC
dBurS1DetC	burial flux DetC from layer S1	gC/m ³ /d	-1.00	DetCS1	S12TraDetC
dBurS1DetC	burial flux DetC from layer S1	gC/m ³ /d	1.00	DetCS2	S12TraDetC
dSWBuS1DtC	burial flux DetC from layer S1	gC/m ³ /d	-1.00	DetCS1	S12TraDetC
dBurS2DetC	burial flux DetC from layer S2	gC/m ³ /d	-1.00	DetCS2	S12TraDetC
dDigS1DetC	digging flux DetC to layer S1	gC/m ³ /d	1.00	DetCS1	S12TraDetC
dDigS1DetC	digging flux DetC to layer S1	gC/m ³ /d	-1.00	DetCS2	S12TraDetC
dDigS2DetC	digging flux DetC to layer S2	gC/m ³ /d	1.00	DetCS2	S12TraDetC
dResS1DetN	resuspension flux DetN from layer S1	gN/m ³ /d	1.00	PON1	S12TraDetN
dResS1DetN	resuspension flux DetN from layer S1	gN/m ³ /d	-1.00	DetNS1	S12TraDetN
dResS2DetN	resuspension flux DetN from layer S2	gN/m ³ /d	-1.00	DetNS2	S12TraDetN
dResS2DetN	resuspension flux DetN from layer S2	gN/m ³ /d	1.00	PON1	S12TraDetN
dBurS1DetN	burial flux DetN from layer S1	gN/m ³ /d	-1.00	DetNS1	S12TraDetN
dBurS1DetN	burial flux DetN from layer S1	gN/m ³ /d	1.00	DetNS2	S12TraDetN

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dSWBuS1DtN	burial flux DetN from layer S1	gN/m ³ /d	-1.00	DetNS1	S12TraDetN
dBurS2DetN	burial flux DetN from layer S2	gN/m ³ /d	-1.00	DetNS2	S12TraDetN
dDigS1DetN	digging flux DetN to layer S1	gN/m ³ /d	1.00	DetNS1	S12TraDetN
dDigS1DetN	digging flux DetN to layer S1	gN/m ³ /d	-1.00	DetNS2	S12TraDetN
dDigS2DetN	digging flux DetN to layer S2	gN/m ³ /d	1.00	DetNS2	S12TraDetN
dResS1DetP	resuspension flux DetP from layer S1	gP/m ³ /d	1.00	POP1	S12TraDetP
dResS1DetP	resuspension flux DetP from layer S1	gP/m ³ /d	-1.00	DetPS1	S12TraDetP
dResS2DetP	resuspension flux DetP from layer S2	gP/m ³ /d	-1.00	DetPS2	S12TraDetP
dResS2DetP	resuspension flux DetP from layer S2	gP/m ³ /d	1.00	POP1	S12TraDetP
dBurS1DetP	burial flux DetP from layer S1	gP/m ³ /d	-1.00	DetPS1	S12TraDetP
dBurS1DetP	burial flux DetP from layer S1	gP/m ³ /d	1.00	DetPS2	S12TraDetP
dSWBuS1DtP	burial flux DetP from layer S1	gP/m ³ /d	-1.00	DetPS1	S12TraDetP
dBurS2DetP	burial flux DetP from layer S2	gP/m ³ /d	-1.00	DetPS2	S12TraDetP
dDigS1DetP	digging flux DetP to layer S1	gP/m ³ /d	1.00	DetPS1	S12TraDetP
dDigS1DetP	digging flux DetP to layer S1	gP/m ³ /d	-1.00	DetPS2	S12TraDetP
dDigS2DetP	digging flux DetP to layer S2	gP/m ³ /d	1.00	DetPS2	S12TraDetP
dResS1DetS	resuspension flux DetSi from layer S1	gSi/m ³ /d	1.00	Opal	S12TraDetS
dResS1DetS	resuspension flux DetSi from layer S1	gSi/m ³ /d	-1.00	DetSiS1	S12TraDetS
dResS2DetS	resuspension flux DetSi from layer S2	gSi/m ³ /d	-1.00	DetSiS2	S12TraDetS
dResS2DetS	resuspension flux DetSi from layer S2	gSi/m ³ /d	1.00	Opal	S12TraDetS
dBurS1DetS	burial flux DetSi from layer S1	gSi/m ³ /d	-1.00	DetSiS1	S12TraDetS
dBurS1DetS	burial flux DetSi from layer S1	gSi/m ³ /d	1.00	DetSiS2	S12TraDetS
dSWBuS1DtS	burial flux DetSi from layer S1	gSi/m ³ /d	-1.00	DetSiS1	S12TraDetS
dBurS2DetS	burial flux DetSi from layer S2	gSi/m ³ /d	-1.00	DetSiS2	S12TraDetS
dDigS1DetS	digging flux DetS to layer S1	gSi/m ³ /d	1.00	DetSiS1	S12TraDetS
dDigS1DetS	digging flux DetS to layer S1	gSi/m ³ /d	-1.00	DetSiS2	S12TraDetS
dDigS2DetS	digging flux DetSi to layer S2	gSi/m ³ /d	1.00	DetSiS2	S12TraDetS
dResS1OOC	resuspension flux OOC from layer S1	gC/m ³ /d	1.00	POC2	S12TraOOC
dResS1OOC	resuspension flux OOC from layer S1	gC/m ³ /d	-1.00	OOCs1	S12TraOOC
dResS2OOC	resuspension flux OOC from layer S2	gC/m ³ /d	-1.00	OOCs2	S12TraOOC
dResS2OOC	resuspension flux OOC from layer S2	gC/m ³ /d	1.00	POC2	S12TraOOC
dBurS1OOC	burial flux OOC from layer S1	gC/m ³ /d	-1.00	OOCs1	S12TraOOC
dBurS1OOC	burial flux OOC from layer S1	gC/m ³ /d	1.00	OOCs2	S12TraOOC
dSWBuS1OOC	burial flux OOC from layer S1	gC/m ³ /d	-1.00	OOCs1	S12TraOOC
dBurS2OOC	burial flux OOC from layer S2	gC/m ³ /d	-1.00	OOCs2	S12TraOOC
dDigS1OOC	digging flux OOC to layer S1	gC/m ³ /d	1.00	OOCs1	S12TraOOC
dDigS1OOC	digging flux OOC to layer S1	gC/m ³ /d	-1.00	OOCs2	S12TraOOC
dDigS2OOC	digging flux OOC to layer S2	gC/m ³ /d	1.00	OOCs2	S12TraOOC
dResS1OON	resuspension flux OON from layer S1	gN/m ³ /d	1.00	PON2	S12TraOON
dResS1OON	resuspension flux OON from layer S1	gN/m ³ /d	-1.00	OONS1	S12TraOON
dResS2OON	resuspension flux OON from layer S1	gN/m ³ /d	-1.00	OONS2	S12TraOON
dResS2OON	resuspension flux OON from layer S1	gN/m ³ /d	1.00	PON2	S12TraOON
dBurS1OON	burial flux OON from layer S1	gN/m ³ /d	-1.00	OONS1	S12TraOON
dBurS1OON	burial flux OON from layer S1	gN/m ³ /d	1.00	OONS2	S12TraOON
dSWBuS1OON	burial flux OON from layer S1	gN/m ³ /d	-1.00	OONS1	S12TraOON
dBurS2OON	burial flux OON from layer S2	gN/m ³ /d	-1.00	OONS2	S12TraOON
dDigS1OON	digging flux OON to layer S1	gN/m ³ /d	1.00	OONS1	S12TraOON
dDigS1OON	digging flux OON to layer S1	gN/m ³ /d	-1.00	OONS2	S12TraOON
dDigS2OON	digging flux OON to layer S2	gN/m ³ /d	1.00	OONS2	S12TraOON
dResS1OOP	resuspension flux OOP from layer S1	gP/m ³ /d	1.00	POP2	S12TraOOP
dResS1OOP	resuspension flux OOP from layer S1	gP/m ³ /d	-1.00	OOPS1	S12TraOOP
dResS2OOP	resuspension flux OOP from layer S1	gP/m ³ /d	-1.00	OOPS2	S12TraOOP
dResS2OOP	resuspension flux OOP from layer S1	gP/m ³ /d	1.00	POP2	S12TraOOP
dBurS1OOP	burial flux OOP from layer S1	gP/m ³ /d	-1.00	OOPS1	S12TraOOP
dBurS1OOP	burial flux OOP from layer S1	gP/m ³ /d	1.00	OOPS2	S12TraOOP
dSWBuS1OOP	burial flux OOP from layer S1	gP/m ³ /d	-1.00	OOPS1	S12TraOOP
dBurS2OOP	burial flux OOP from layer S2	gP/m ³ /d	-1.00	OOPS2	S12TraOOP
dDigS1OOP	digging flux OOP to layer S1	gP/m ³ /d	1.00	OOPS1	S12TraOOP
dDigS1OOP	digging flux OOP to layer S1	gP/m ³ /d	-1.00	OOPS2	S12TraOOP
dDigS2OOP	digging flux OOP to layer S2	gP/m ³ /d	1.00	OOPS2	S12TraOOP
dResS1OOSi	resuspension flux OOSi from layer S1	gSi/m ³ /d	1.00	Opal	S12TraOOSi
dResS1OOSi	resuspension flux OOSi from layer S1	gSi/m ³ /d	-1.00	OOSiS1	S12TraOOSi
dResS2OOSi	resuspension flux OOSi from layer S1	gSi/m ³ /d	-1.00	OOSiS2	S12TraOOSi
dResS2OOSi	resuspension flux OOSi from layer S1	gSi/m ³ /d	1.00	Opal	S12TraOOSi
dBurS1OOSi	burial flux OOSi from layer S1	gSi/m ³ /d	-1.00	OOSiS1	S12TraOOSi
dBurS1OOSi	burial flux OOSi from layer S1	gSi/m ³ /d	1.00	OOSiS2	S12TraOOSi
dSWBuS1OOSi	burial flux OOSi from layer S1	gSi/m ³ /d	-1.00	OOSiS1	S12TraOOSi
dBurS2OOSi	burial flux OOSi from layer S2	gSi/m ³ /d	-1.00	OOSiS2	S12TraOOSi

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dDigS1OOS	digging flux OOS to layer S1	$\text{gSi/m}^3/\text{d}$	1.00	OOSiS1	S12TraOOSi
dDigS1OOS	digging flux OOS to layer S1	$\text{gSi/m}^3/\text{d}$	-1.00	OOSiS2	S12TraOOSi
dDigS2OOS	digging flux OOS to layer S2	$\text{gSi/m}^3/\text{d}$	1.00	OOSiS2	S12TraOOSi
dResS1Diat	resuspension flux Diatoms from layer S1	$\text{gC/m}^3/\text{d}$	1.00	POC1	S12TraDiat
dResS1Diat	resuspension flux Diatoms from layer S1	$\text{gC/m}^3/\text{d}$	-1.00	DiatS1	S12TraDiat
dResS2Diat	resuspension flux Diatoms from layer S2	$\text{gC/m}^3/\text{d}$	-1.00	DiatS2	S12TraDiat
dResS2Diat	resuspension flux Diatoms from layer S2	$\text{gC/m}^3/\text{d}$	1.00	POC1	S12TraDiat
dBurS1Diat	burial flux Diatoms from layer S1	$\text{gC/m}^3/\text{d}$	-1.00	DiatS1	S12TraDiat
dBurS1Diat	burial flux Diatoms from layer S1	$\text{gC/m}^3/\text{d}$	1.00	DiatS2	S12TraDiat
dSWBuS1Dia	burial flux Diatoms from layer S1	$\text{gC/m}^3/\text{d}$	-1.00	DiatS1	S12TraDiat
dBurS2Diat	burial of Diatoms from layer S2	$\text{gC/m}^3/\text{d}$	-1.00	DiatS2	S12TraDiat
dDigS1Diat	digging flux Diatoms to layer S1	$\text{gC/m}^3/\text{d}$	1.00	DiatS1	S12TraDiat
dDigS1Diat	digging flux Diatoms to layer S1	$\text{gC/m}^3/\text{d}$	-1.00	DiatS2	S12TraDiat
dDigS2Diat	digging flux Diatoms to layer S2	$\text{gC/m}^3/\text{d}$	1.00	DiatS2	S12TraDiat
dResS1DiDN	resuspension flux PON1 from layer S1	$\text{gN/m}^3/\text{d}$	1.00	PON1	ResN_DiaS1
dResS1DiDP	resuspension flux POP1 from layer S1	$\text{gP/m}^3/\text{d}$	1.00	POP1	ResN_DiaS1
dResS1DiDS	resuspension flux OPAL from layer S1	$\text{gSi/m}^3/\text{d}$	1.00	OPAL	ResN_DiaS1
dResS2DiDN	resuspension flux PON1 from layer S2	$\text{gN/m}^3/\text{d}$	1.00	PON1	ResN_DiaS2
dResS2DiDP	resuspension flux POP1 from layer S2	$\text{gP/m}^3/\text{d}$	1.00	POP1	ResN_DiaS2
dResS2DiDS	resuspension flux OPAL from layer S2	$\text{gSi/m}^3/\text{d}$	1.00	OPAL	ResN_DiaS2
dResS1MPB1	resuspension flux MPB1 from layer S1	$\text{gC/m}^3/\text{d}$	1.00	MPB1peli	S12TraMPB1
dResS1MPB1	resuspension flux MPB1 from layer S1	$\text{gC/m}^3/\text{d}$	-1.00	MPB1S1	S12TraMPB1
dResS1MPB1	resuspension flux MPB1 from layer S2	$\text{gC/m}^3/\text{d}$	-1.00	MPB1S2	S12TraMPB1
dResS2MPB1	resuspension flux MPB1 from layer S2	$\text{gC/m}^3/\text{d}$	1.00	MPB1peli	S12TraMPB1
dBurS1MPB1	burial flux MPB1 from layer S1	$\text{gC/m}^3/\text{d}$	-1.00	MPB1S1	S12TraMPB1
dBurS1MPB1	burial flux MPB1 from layer S1	$\text{gC/m}^3/\text{d}$	1.00	MPB1S2	S12TraMPB1
dBurS2MPB1	burial flux MPB1 from layer S2	$\text{gC/m}^3/\text{d}$	-1.00	MPB1S2	S12TraMPB1
dDigS1MPB1	digging flux MPB1 to layer S1	$\text{gC/m}^3/\text{d}$	1.00	MPB1S1	S12TraMPB1
dDigS1MPB1	digging flux MPB1 to layer S1	$\text{gC/m}^3/\text{d}$	-1.00	MPB1S2	S12TraMPB1
dDigS2MPB1	digging flux MPB1 to layer S2	$\text{gC/m}^3/\text{d}$	1.00	MPB1S2	S12TraMPB1
dResS1MPB2	resuspension flux MPB2 from layer S1	$\text{gC/m}^3/\text{d}$	1.00	MPB2psam	S12TraMPB2
dResS1MPB2	resuspension flux MPB2 from layer S1	$\text{gC/m}^3/\text{d}$	-1.00	MPB2S1	S12TraMPB2
dResS2MPB2	resuspension flux MPB2 from layer S2	$\text{gC/m}^3/\text{d}$	-1.00	MPB2S2	S12TraMPB2
dResS2MPB2	resuspension flux MPB2 from layer S2	$\text{gC/m}^3/\text{d}$	1.00	MPB2psam	S12TraMPB2
dBurS1MPB2	burial flux MPB1 from layer S1	$\text{gC/m}^3/\text{d}$	-1.00	MPB2S1	S12TraMPB2
dBurS1MPB2	burial flux MPB1 from layer S1	$\text{gC/m}^3/\text{d}$	1.00	MPB2S2	S12TraMPB2
dBurS2MPB2	burial flux MPB1 from layer S2	$\text{gC/m}^3/\text{d}$	-1.00	MPB2S2	S12TraMPB2
dDigS1MPB2	digging flux MPB1 to layer S1	$\text{gC/m}^3/\text{d}$	1.00	MPB2S1	S12TraMPB2
dDigS1MPB2	digging flux MPB1 to layer S1	$\text{gC/m}^3/\text{d}$	-1.00	MPB2S2	S12TraMPB2
dDigS2MPB2	digging flux MPB1 to layer S2	$\text{gC/m}^3/\text{d}$	1.00	MPB2S2	S12TraMPB2
dResS1IM1	resuspension flux IM1 from layer S1	$\text{g/m}^3/\text{d}$	1.00	IM1	S12TraIM1
dResS1IM1	resuspension flux IM1 from layer S1	$\text{g/m}^3/\text{d}$	-1.00	IM1S1	S12TraIM1
dResS2IM1	resuspension flux IM1 from layer S2	$\text{g/m}^3/\text{d}$	-1.00	IM1S2	S12TraIM1
dResS2IM1	resuspension flux IM1 from layer S2	$\text{g/m}^3/\text{d}$	1.00	IM1	S12TraIM1
dBurS1IM1	burial flux IM1 from layer S1	$\text{g/m}^3/\text{d}$	-1.00	IM1S1	S12TraIM1
dBurS1IM1	burial flux IM1 from layer S1	$\text{g/m}^3/\text{d}$	1.00	IM1S2	S12TraIM1
dBurS2IM1	burial flux IM1 from layer S2	$\text{g/m}^3/\text{d}$	-1.00	IM1S2	S12TraIM1
dDigS1IM1	digging flux IM1 to layer S1	$\text{g/m}^3/\text{d}$	1.00	IM1S1	S12TraIM1
dDigS1IM1	digging flux IM1 to layer S1	$\text{g/m}^3/\text{d}$	-1.00	IM1S2	S12TraIM1
dDigS2IM1	digging flux IM1 to layer S2	$\text{g/m}^3/\text{d}$	1.00	IM1S2	S12TraIM1
dResS1IM2	resuspension flux IM2 from layer S1	$\text{g/m}^3/\text{d}$	1.00	IM2	S12TraIM2
dResS1IM2	resuspension flux IM2 from layer S1	$\text{g/m}^3/\text{d}$	-1.00	IM2S1	S12TraIM2
dResS2IM2	resuspension flux IM2 from layer S2	$\text{g/m}^3/\text{d}$	-1.00	IM2S2	S12TraIM2
dResS2IM2	resuspension flux IM2 from layer S2	$\text{g/m}^3/\text{d}$	1.00	IM2	S12TraIM2
dBurS1IM2	burial flux IM2 from layer S1	$\text{g/m}^3/\text{d}$	-1.00	IM2S1	S12TraIM2
dBurS1IM2	burial flux IM2 from layer S1	$\text{g/m}^3/\text{d}$	1.00	IM2S2	S12TraIM2
dBurS2IM2	burial flux IM2 from layer S2	$\text{g/m}^3/\text{d}$	-1.00	IM2S2	S12TraIM2
dDigS1IM2	digging flux IM2 to layer S1	$\text{g/m}^3/\text{d}$	1.00	IM2S1	S12TraIM2
dDigS1IM2	digging flux IM2 to layer S1	$\text{g/m}^3/\text{d}$	-1.00	IM2S2	S12TraIM2
dDigS2IM2	digging flux IM2 to layer S2	$\text{g/m}^3/\text{d}$	1.00	IM2S2	S12TraIM2
dResS1IM3	resuspension flux IM3 from layer S1	$\text{g/m}^3/\text{d}$	1.00	IM3	S12TraIM3
dResS1IM3	resuspension flux IM3 from layer S1	$\text{g/m}^3/\text{d}$	-1.00	IM3S1	S12TraIM3
dResS2IM3	resuspension flux IM3 from layer S2	$\text{g/m}^3/\text{d}$	-1.00	IM3S2	S12TraIM3
dResS2IM3	resuspension flux IM3 from layer S2	$\text{g/m}^3/\text{d}$	1.00	IM3	S12TraIM3

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dBurS1IM3	burial flux IM3 from layer S1	g/m ³ /d	-1.00	IM3S1	S12TraIM3
dBurS1IM3	burial flux IM3 from layer S1	g/m ³ /d	1.00	IM3S2	S12TraIM3
dBurS2IM3	burial flux IM3 from layer S2	g/m ³ /d	-1.00	IM3S2	S12TraIM3
dDigS1IM3	digging flux IM3 to layer S1	g/m ³ /d	1.00	IM3S1	S12TraIM3
dDigS1IM3	digging flux IM3 to layer S1	g/m ³ /d	-1.00	IM3S2	S12TraIM3
dDigS2IM3	digging flux IM3 to layer S2	g/m ³ /d	1.00	IM3S2	S12TraIM3
dResS1AAP	resuspension flux AAP from layer S1	gP/m ³ /d	1.00	AAP	S12TraAAP
dResS1AAP	resuspension flux AAP from layer S1	gP/m ³ /d	-1.00	AAPS1	S12TraAAP
dResS2AAP	resuspension flux AAP from layer S1	gP/m ³ /d	-1.00	AAPS2	S12TraAAP
dResS2AAP	resuspension flux AAP from layer S1	gP/m ³ /d	1.00	AAP	S12TraAAP
dBurS1AAP	burial flux AAP from layer S1	gP/m ³ /d	-1.00	AAPS1	S12TraAAP
dBurS1AAP	burial flux AAP from layer S1	gP/m ³ /d	1.00	AAPS2	S12TraAAP
dBurS2AAP	burial flux AAP from layer S2	gP/m ³ /d	-1.00	AAPS2	S12TraAAP
dDigS1AAP	digging flux AAP to layer S1	gP/m ³ /d	1.00	AAPS1	S12TraAAP
dDigS1AAP	digging flux AAP to layer S1	gP/m ³ /d	-1.00	AAPS2	S12TraAAP
dDigS2AAP	digging flux AAP to layer S2	gP/m ³ /d	1.00	AAPS2	S12TraAAP
dSorpCd	sorption flux Cd	gCd/m ³ /d	-1.00	Cd-dis	PartWK_Cd
dSorpCd	sorption flux Cd	gCd/m ³ /d	1.00	Cd-par	PartWK_Cd
dSorpCr	sorption flux Cr	gCr/m ³ /d	-1.00	Cr-dis	PartWK_Cr
dSorpCr	sorption flux Cr	gCr/m ³ /d	1.00	Cr-par	PartWK_Cr
dSorpCu	sorption flux Cu	gCu/m ³ /d	-1.00	Cu-dis	PartWK_Cu
dSorpCu	sorption flux Cu	gCu/m ³ /d	1.00	Cu-par	PartWK_Cu
dSorpHg	sorption flux Hg	gHg/m ³ /d	-1.00	Hg-dis	PartWK_Hg
dSorpHg	sorption flux Hg	gHg/m ³ /d	1.00	Hg-par	PartWK_Hg
dSorpNi	sorption flux Ni	gNi/m ³ /d	-1.00	Ni-dis	PartWK_Ni
dSorpNi	sorption flux Ni	gNi/m ³ /d	1.00	Ni-par	PartWK_Ni
dSorpPb	sorption flux Pb	gPb/m ³ /d	-1.00	Pb-dis	PartWK_Pb
dSorpPb	sorption flux Pb	gPb/m ³ /d	1.00	Pb-par	PartWK_Pb
dSorpAs	sorption flux As	gAs/m ³ /d	-1.00	As-dis	PartWK_As
dSorpAs	sorption flux As	gAs/m ³ /d	1.00	As-par	PartWK_As
dSorpVa	sorption flux Va	gVa/m ³ /d	-1.00	Va-dis	PartWK_Va
dSorpVa	sorption flux Va	gVa/m ³ /d	1.00	Va-par	PartWK_Va
dSorpZn	sorption flux Zn	gZn/m ³ /d	-1.00	Zn-dis	PartWK_Zn
dSorpZn	sorption flux Zn	gZn/m ³ /d	1.00	Zn-par	PartWK_Zn
dSorpCdS1	sorption flux Cd in layer S1	gCd/m ³ /d	-1.00	CdS1-dis	PartS1_Cd
dSorpCdS1	sorption flux Cd in layer S1	gCd/m ³ /d	1.00	CdS1-par	PartS1_Cd
dSorpCrS1	sorption flux Cr in layer S1	gCr/m ³ /d	-1.00	CrS1-dis	PartS1_Cr
dSorpCrS1	sorption flux Cr in layer S1	gCr/m ³ /d	1.00	CrS1-par	PartS1_Cr
dSorpCuS1	sorption flux Cu in layer S1	gCu/m ³ /d	-1.00	CuS1-dis	PartS1_Cu
dSorpCuS1	sorption flux Cu in layer S1	gCu/m ³ /d	1.00	CuS1-par	PartS1_Cu
dSorpHgS1	sorption flux Hg in layer S1	gHg/m ³ /d	-1.00	HgS1-dis	PartS1_Hg
dSorpHgS1	sorption flux Hg in layer S1	gHg/m ³ /d	1.00	HgS1-par	PartS1_Hg
dSorpNiS1	sorption flux Ni in layer S1	gNi/m ³ /d	-1.00	NiS1-dis	PartS1_Ni
dSorpNiS1	sorption flux Ni in layer S1	gNi/m ³ /d	1.00	NiS1-par	PartS1_Ni
dSorpPbS1	sorption flux Pb in layer S1	gPb/m ³ /d	-1.00	PbS1-dis	PartS1_Pb
dSorpPbS1	sorption flux Pb in layer S1	gPb/m ³ /d	1.00	PbS1-par	PartS1_Pb
dSorpAsS1	sorption flux As in layer S1	gAs/m ³ /d	-1.00	AsS1-dis	PartS1_As
dSorpAsS1	sorption flux As in layer S1	gAs/m ³ /d	1.00	AsS1-par	PartS1_As
dSorpVaS1	sorption flux Va in layer S1	gVa/m ³ /d	-1.00	VaS1-dis	PartS1_Va
dSorpVaS1	sorption flux Va in layer S1	gVa/m ³ /d	1.00	VaS1-par	PartS1_Va
dSorpZnS1	sorption flux Zn in layer S1	gZn/m ³ /d	-1.00	ZnS1-dis	PartS1_Zn
dSorpZnS1	sorption flux Zn in layer S1	gZn/m ³ /d	1.00	ZnS1-par	PartS1_Zn
dSorpCdS2	sorption flux Cd in layer S2	gCd/m ³ /d	-1.00	CdS2-dis	PartS2_Cd
dSorpCdS2	sorption flux Cd in layer S2	gCd/m ³ /d	1.00	CdS2-par	PartS2_Cd
dSorpCrS2	sorption flux Cr in layer S2	gCr/m ³ /d	-1.00	CrS2-dis	PartS2_Cr
dSorpCrS2	sorption flux Cr in layer S2	gCr/m ³ /d	1.00	CrS2-par	PartS2_Cr
dSorpCuS2	sorption flux Cu in layer S2	gCu/m ³ /d	-1.00	CuS2-dis	PartS2_Cu
dSorpCuS2	sorption flux Cu in layer S2	gCu/m ³ /d	1.00	CuS2-par	PartS2_Cu
dSorpHgS2	sorption flux Hg in layer S2	gHg/m ³ /d	-1.00	HgS2-dis	PartS2_Hg
dSorpHgS2	sorption flux Hg in layer S2	gHg/m ³ /d	1.00	HgS2-par	PartS2_Hg
dSorpNiS2	sorption flux Ni in layer S2	gNi/m ³ /d	-1.00	NiS2-dis	PartS2_Ni
dSorpNiS2	sorption flux Ni in layer S2	gNi/m ³ /d	1.00	NiS2-par	PartS2_Ni
dSorpPbS2	sorption flux Pb in layer S2	gPb/m ³ /d	-1.00	PbS2-dis	PartS2_Pb
dSorpPbS2	sorption flux Pb in layer S2	gPb/m ³ /d	1.00	PbS2-par	PartS2_Pb
dSorpAsS2	sorption flux As in layer S2	gAs/m ³ /d	-1.00	AsS2-dis	PartS2_As
dSorpAsS2	sorption flux As in layer S2	gAs/m ³ /d	1.00	AsS2-par	PartS2_As
dSorpVaS2	sorption flux Va in layer S2	gVa/m ³ /d	-1.00	VaS2-dis	PartS2_Va
dSorpVaS2	sorption flux Va in layer S2	gVa/m ³ /d	1.00	VaS2-par	PartS2_Va

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dSorpZnS2	sorption flux Zn in layer S2	gZn/m ³ /d	-1.00	ZnS2-dis	PartS2_Zn
dSorpZnS2	sorption flux Zn in layer S2	gZn/m ³ /d	1.00	ZnS2-par	PartS2_Zn
dSorp153S1	sorption flux 153 in layer S1	g153/m ³ /d	-1.00	153S1-Dis	PartS1_153
dSorp153S1	sorption flux 153 in layer S1	g153/m ³ /d	1.00	153S1-Par	PartS1_153
dSorpAtrS1	sorption flux Atrazine in layer S1	gAtr/m ³ /d	-1.00	AtrS1-Dis	PartS1_Atr
dSorpAtrS1	sorption flux Atrazine in layer S1	gAtr/m ³ /d	1.00	AtrS1-Par	PartS1_Atr
dSorpBaPS1	sorption flux BaP in layer S1	gBaP/m ³ /d	-1.00	BaPS1-Dis	PartS1_BaP
dSorpBaPS1	sorption flux BaP in layer S1	gBaP/m ³ /d	1.00	BaPS1-Par	PartS1_BaP
dSorpDiuS1	sorption flux Diu in layer S1	gDiu/m ³ /d	-1.00	DiuS1-Dis	PartS1_Diu
dSorpDiuS1	sorption flux Diu in layer S1	gDiu/m ³ /d	1.00	DiuS1-Par	PartS1_Diu
dSorpFluS1	sorption flux Flu in layer S1	gFlu/m ³ /d	-1.00	FluS1-Dis	PartS1_Flu
dSorpFluS1	sorption flux Flu in layer S1	gFlu/m ³ /d	1.00	FluS1-Par	PartS1_Flu
dSorpHCBs1	sorption flux HCB in layer S1	gHCB/m ³ /d	-1.00	HCBs1-Dis	PartS1_HCB
dSorpHCBs1	sorption flux HCB in layer S1	gHCB/m ³ /d	1.00	HCBs1-Par	PartS1_HCB
dSorpHCHS1	sorption flux HCH in layer S1	gHCH/m ³ /d	-1.00	HCHS1-Dis	PartS1_HCH
dSorpHCHS1	sorption flux HCH in layer S1	gHCH/m ³ /d	1.00	HCHS1-Par	PartS1_HCH
dSorpMefS1	sorption flux Mef in layer S1	gMef/m ³ /d	-1.00	MefS1-Dis	PartS1_Mef
dSorpMefS1	sorption flux Mef in layer S1	gMef/m ³ /d	1.00	MefS1-Par	PartS1_Mef
dSorp153S2	sorption flux 153 in layer S2	g153/m ³ /d	-1.00	153S2-Dis	PartS2_153
dSorp153S2	sorption flux 153 in layer S2	g153/m ³ /d	1.00	153S2-Par	PartS2_153
dSorpAtrS2	sorption flux Atrazine in layer S2	gAtr/m ³ /d	-1.00	AtrS2-Dis	PartS2_Atr
dSorpAtrS2	sorption flux Atrazine in layer S2	gAtr/m ³ /d	1.00	AtrS2-Par	PartS2_Atr
dSorpBaPS2	sorption flux BaP in layer S2	gBaP/m ³ /d	-1.00	BaPS2-Dis	PartS2_BaP
dSorpBaPS2	sorption flux BaP in layer S2	gBaP/m ³ /d	1.00	BaPS2-Par	PartS2_BaP
dSorpDiuS2	sorption flux Diu in layer S2	gDiu/m ³ /d	-1.00	DiuS2-Dis	PartS2_Diu
dSorpDiuS2	sorption flux Diu in layer S2	gDiu/m ³ /d	1.00	DiuS2-Par	PartS2_Diu
dSorpFluS2	sorption flux Flu in layer S2	gFlu/m ³ /d	-1.00	FluS2-Dis	PartS2_Flu
dSorpFluS2	sorption flux Flu in layer S2	gFlu/m ³ /d	1.00	FluS2-Par	PartS2_Flu
dSorpHCBs2	sorption flux HCB in layer S2	gHCB/m ³ /d	-1.00	HCBs2-Dis	PartS2_HCB
dSorpHCBs2	sorption flux HCB in layer S2	gHCB/m ³ /d	1.00	HCBs2-Par	PartS2_HCB
dSorpHCHS2	sorption flux HCH in layer S2	gHCH/m ³ /d	-1.00	HCHS2-Dis	PartS2_HCH
dSorpHCHS2	sorption flux HCH in layer S2	gHCH/m ³ /d	1.00	HCHS2-Par	PartS2_HCH
dSorpMefS2	sorption flux Mef in layer S2	gMef/m ³ /d	-1.00	MefS2-Dis	PartS2_Mef
dSorpMefS2	sorption flux Mef in layer S2	gMef/m ³ /d	1.00	MefS2-Par	PartS2_Mef
dSorp153	sorption flux 153	g153/m ³ /d	-1.00	153-dis	PartWK_153
dSorp153	sorption flux 153	g153/m ³ /d	1.00	153-par	PartWK_153
dSorpAtr	sorption flux Atrazine	gAtr/m ³ /d	-1.00	Atr-dis	PartWK_Atr
dSorpAtr	sorption flux Atrazine	gAtr/m ³ /d	1.00	Atr-par	PartWK_Atr
dSorpBaP	sorption flux BaP	gBaP/m ³ /d	-1.00	BaP-dis	PartWK_BaP
dSorpBaP	sorption flux BaP	gBaP/m ³ /d	1.00	BaP-par	PartWK_BaP
dSorpDiu	sorption flux Diu	gDiu/m ³ /d	-1.00	Diu-dis	PartWK_Diu
dSorpDiu	sorption flux Diu	gDiu/m ³ /d	1.00	Diu-par	PartWK_Diu
dSorpFlu	sorption flux Flu	gFlu/m ³ /d	-1.00	Flu-dis	PartWK_Flu
dSorpFlu	sorption flux Flu	gFlu/m ³ /d	1.00	Flu-par	PartWK_Flu
dSorpHCB	sorption flux HCB	gHCB/m ³ /d	-1.00	HCB-dis	PartWK_HCB
dSorpHCB	sorption flux HCB	gHCB/m ³ /d	1.00	HCB-par	PartWK_HCB
dSorpHCH	sorption flux HCH	gHCH/m ³ /d	-1.00	HCH-dis	PartWK_HCH
dSorpHCH	sorption flux HCH	gHCH/m ³ /d	1.00	HCH-par	PartWK_HCH
dSorpMef	sorption flux Mef	gMef/m ³ /d	-1.00	Mef-dis	PartWK_Mef
dSorpMef	sorption flux Mef	gMef/m ³ /d	1.00	Mef-par	PartWK_Mef
dSedResALG	sedimentation flux algae	gC/m ³ /d	1.00	UlvaF	UlvaFix_P
dSedResALG	sedimentation flux algae	gC/m ³ /d	1.00	UlvaS	UlvaFix_P
dSedRes01	sedimentation flux algae type 01	gC/m ³ /d	1.00	BLOOMALG01	UlvaFix
dSedRes02	sedimentation flux algae type 02	gC/m ³ /d	1.00	BLOOMALG02	UlvaFix
dSedRes03	sedimentation flux algae type 03	gC/m ³ /d	1.00	BLOOMALG03	UlvaFix
dSedRes04	sedimentation flux algae type 04	gC/m ³ /d	1.00	BLOOMALG04	UlvaFix
dSedRes05	sedimentation flux algae type 05	gC/m ³ /d	1.00	BLOOMALG05	UlvaFix
dSedRes06	sedimentation flux algae type 06	gC/m ³ /d	1.00	BLOOMALG06	UlvaFix
dSedRes07	sedimentation flux algae type 07	gC/m ³ /d	1.00	BLOOMALG07	UlvaFix
dSedRes08	sedimentation flux algae type 08	gC/m ³ /d	1.00	BLOOMALG08	UlvaFix
dSedRes09	sedimentation flux algae type 09	gC/m ³ /d	1.00	BLOOMALG09	UlvaFix
dSedRes10	sedimentation flux algae type 10	gC/m ³ /d	1.00	BLOOMALG10	UlvaFix
dSedRes11	sedimentation flux algae type 11	gC/m ³ /d	1.00	BLOOMALG11	UlvaFix
dSedRes12	sedimentation flux algae type 12	gC/m ³ /d	1.00	BLOOMALG12	UlvaFix
dSedRes13	sedimentation flux algae type 13	gC/m ³ /d	1.00	BLOOMALG13	UlvaFix
dSedRes14	sedimentation flux algae type 14	gC/m ³ /d	1.00	BLOOMALG14	UlvaFix
dSedRes15	sedimentation flux algae type 15	gC/m ³ /d	1.00	BLOOMALG15	UlvaFix
dSedRes16	sedimentation flux algae type 16	gC/m ³ /d	1.00	BLOOMALG16	UlvaFix

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dSedRes17	sedimentation flux algae type 17	gC/m ³ /d	1.00	BLOOMALG17	UlvaFix
dSedRes18	sedimentation flux algae type 18	gC/m ³ /d	1.00	BLOOMALG18	UlvaFix
dSedRes19	sedimentation flux algae type 19	gC/m ³ /d	1.00	BLOOMALG19	UlvaFix
dSedRes20	sedimentation flux algae type 20	gC/m ³ /d	1.00	BLOOMALG20	UlvaFix
dSedRes21	sedimentation flux algae type 21	gC/m ³ /d	1.00	BLOOMALG21	UlvaFix
dSedRes22	sedimentation flux algae type 22	gC/m ³ /d	1.00	BLOOMALG22	UlvaFix
dSedRes23	sedimentation flux algae type 23	gC/m ³ /d	1.00	BLOOMALG23	UlvaFix
dSedRes24	sedimentation flux algae type 24	gC/m ³ /d	1.00	BLOOMALG24	UlvaFix
dSedRes25	sedimentation flux algae type 25	gC/m ³ /d	1.00	BLOOMALG25	UlvaFix
dSedRes26	sedimentation flux algae type 26	gC/m ³ /d	1.00	BLOOMALG26	UlvaFix
dSedRes27	sedimentation flux algae type 27	gC/m ³ /d	1.00	BLOOMALG27	UlvaFix
dSedRes28	sedimentation flux algae type 28	gC/m ³ /d	1.00	BLOOMALG28	UlvaFix
dSedRes29	sedimentation flux algae type 29	gC/m ³ /d	1.00	BLOOMALG29	UlvaFix
dSedRes30	sedimentation flux algae type 30	gC/m ³ /d	1.00	BLOOMALG30	UlvaFix
dGrzDisC	flux to dissolved carbon from grazing	gC/m ³ /d	-2.67	OXY	CONSBL
dGrzDisC	flux to dissolved carbon from grazing	gC/m ³ /d	1.00	TIC	CONSBL
dGrzDisN	flux to dissolved nitrogen from grazing	gN/m ³ /d	1.00	NH4	CONSBL
dGrzDisN	flux to dissolved nitrogen from grazing	gN/m ³ /d	-0.07	H+	CONSBL
dGrzDisN	flux to dissolved nitrogen from grazing	gN/m ³ /d	4.36	ALKA	CONSBL
dGrzDisP	flux to dissolved phosphorus from grazing	gP/m ³ /d	1.00	PO4	CONSBL
dGrzDisP	flux to dissolved phosphorus from grazing	gP/m ³ /d	0.10	H+	CONSBL
dGrzDisP	flux to dissolved phosphorus from grazing	gP/m ³ /d	-5.66	ALKA	CONSBL
dGrzDisSi	flux to dissolved silicon from grazing	gSi/m ³ /d	1.00	Si	CONSBL
dGrzPOC1	flux to GEM org. nutrients from grazing	gC/m ³ /d	1.00	POC1	CONSBL
dGrzPON1	flux to GEM org. nutrients from grazing	gN/m ³ /d	1.00	PON1	CONSBL
dGrzPOP1	flux to GEM org. nutrients from grazing	gP/m ³ /d	1.00	POP1	CONSBL
dGrzPOSi1	dummy flux	gSi/m ³ /d	1.00	Opal	CONSBL
dGrzDetCS1	flux to DetCS1 from grazing	gC/m ³ /d	1.00	DetCS1	CONSBL
dGrzDetNS1	flux to DetNS1 from grazing	gN/m ³ /d	1.00	DetNS1	CONSBL
dGrzDetPS1	flux to DetPS1 from grazing	gP/m ³ /d	1.00	DetPS1	CONSBL
dGrzDetSS1	flux to DetSiS1 from grazing	gSi/m ³ /d	1.00	DetSiS1	CONSBL
dGrzGreen	grazing of Greens	gC/m ³ /d	-1.00	Green	CONSBL
dGrzDiat	grazing of Diatoms	gC/m ³ /d	-1.00	Diat	CONSBL
dGrzALG01	grazing flux of algae type 01	gC/m ³ /d	-1.00	BLOOMALG01	CONSBL
dGrzALG02	grazing flux of algae type 02	gC/m ³ /d	-1.00	BLOOMALG02	CONSBL
dGrzALG03	grazing flux of algae type 03	gC/m ³ /d	-1.00	BLOOMALG03	CONSBL
dGrzALG04	grazing flux of algae type 04	gC/m ³ /d	-1.00	BLOOMALG04	CONSBL
dGrzALG05	grazing flux of algae type 05	gC/m ³ /d	-1.00	BLOOMALG05	CONSBL
dGrzALG06	grazing flux of algae type 06	gC/m ³ /d	-1.00	BLOOMALG06	CONSBL
dGrzALG07	grazing flux of algae type 07	gC/m ³ /d	-1.00	BLOOMALG07	CONSBL
dGrzALG08	grazing flux of algae type 08	gC/m ³ /d	-1.00	BLOOMALG08	CONSBL
dGrzALG09	grazing flux of algae type 09	gC/m ³ /d	-1.00	BLOOMALG09	CONSBL
dGrzALG10	grazing flux of algae type 10	gC/m ³ /d	-1.00	BLOOMALG10	CONSBL
dGrzALG11	grazing flux of algae type 11	gC/m ³ /d	-1.00	BLOOMALG11	CONSBL
dGrzALG12	grazing flux of algae type 12	gC/m ³ /d	-1.00	BLOOMALG12	CONSBL
dGrzALG13	grazing flux of algae type 13	gC/m ³ /d	-1.00	BLOOMALG13	CONSBL
dGrzALG14	grazing flux of algae type 14	gC/m ³ /d	-1.00	BLOOMALG14	CONSBL
dGrzALG15	grazing flux of algae type 15	gC/m ³ /d	-1.00	BLOOMALG15	CONSBL
dGrzALG16	grazing flux of algae type 16	gC/m ³ /d	-1.00	BLOOMALG16	CONSBL
dGrzALG17	grazing flux of algae type 17	gC/m ³ /d	-1.00	BLOOMALG17	CONSBL
dGrzALG18	grazing flux of algae type 18	gC/m ³ /d	-1.00	BLOOMALG18	CONSBL
dGrzALG19	grazing flux of algae type 19	gC/m ³ /d	-1.00	BLOOMALG19	CONSBL
dGrzALG20	grazing flux of algae type 20	gC/m ³ /d	-1.00	BLOOMALG20	CONSBL
dGrzALG21	grazing flux of algae type 21	gC/m ³ /d	-1.00	BLOOMALG21	CONSBL
dGrzALG22	grazing flux of algae type 22	gC/m ³ /d	-1.00	BLOOMALG22	CONSBL
dGrzALG23	grazing flux of algae type 23	gC/m ³ /d	-1.00	BLOOMALG23	CONSBL
dGrzALG24	grazing flux of algae type 24	gC/m ³ /d	-1.00	BLOOMALG24	CONSBL
dGrzALG25	grazing flux of algae type 25	gC/m ³ /d	-1.00	BLOOMALG25	CONSBL
dGrzALG26	grazing flux of algae type 26	gC/m ³ /d	-1.00	BLOOMALG26	CONSBL
dGrzALG27	grazing flux of algae type 27	gC/m ³ /d	-1.00	BLOOMALG27	CONSBL
dGrzALG28	grazing flux of algae type 28	gC/m ³ /d	-1.00	BLOOMALG28	CONSBL
dGrzALG29	grazing flux of algae type 29	gC/m ³ /d	-1.00	BLOOMALG29	CONSBL
dGrzALG30	grazing flux of algae type 30	gC/m ³ /d	-1.00	BLOOMALG30	CONSBL
dVolat153	volatilisation flux 153	g153/m ³ /d	-1.00	153	Volat_153
dVolat153	volatilisation flux 153	g153/m ³ /d	-1.00	153-dis	Volat_153

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Flux	Description	Unit	Stoch.	Sub.	Process
dVolatHCB	volatilisation flux HCB	gHCB/m ³ /d	-1.00	HCB	Volat_HCB
dVolatHCB	volatilisation flux HCB	gHCB/m ³ /d	-1.00	HCB-dis	Volat_HCB
dVolatHCH	volatilisation flux HCH	gHCH/m ³ /d	-1.00	HCH	Volat_HCH
dVolatHCH	volatilisation flux HCH	gHCH/m ³ /d	-1.00	HCH-dis	Volat_HCH
dVolatFlu	volatilisation flux Flu	gFlu/m ³ /d	-1.00	Flu	Volat_Flu
dVolatFlu	volatilisation flux Flu	gFlu/m ³ /d	-1.00	Flu-dis	Volat_Flu
dVolatBaP	volatilisation flux BaP	gBaP/m ³ /d	-1.00	BaP	Volat_BaP
dVolatBaP	volatilisation flux BaP	gBaP/m ³ /d	-1.00	BaP-dis	Volat_BaP
dVolatAtr	volatilisation flux Atrazine	gAtr/m ³ /d	-1.00	Atr	Volat_Atr
dVolatAtr	volatilisation flux Atrazine	gAtr/m ³ /d	-1.00	Atr-dis	Volat_Atr
dVolatMef	volatilisation flux Mef	gMef/m ³ /d	-1.00	Mef	Volat_Mef
dVolatMef	volatilisation flux Mef	gMef/m ³ /d	-1.00	Mef-dis	Volat_Mef
dVolatDiu	volatilisation flux Diu	gDiu/m ³ /d	-1.00	Diu	Volat_Diu
dVolatDiu	volatilisation flux Diu	gDiu/m ³ /d	-1.00	Diu-dis	Volat_Diu
dLoss153	overall loss flux 153 in water	g/m ³ /d	-1.00	153	Los_WK_153
dLossHCB	overall loss flux HCB in water	g/m ³ /d	-1.00	HCB	Los_WK_HCB
dLossHCH	overall loss flux HCH in water	g/m ³ /d	-1.00	HCH	Los_WK_HCH
dLossFlu	overall loss flux Flu in water	g/m ³ /d	-1.00	Flu	Los_WK_Flu
dLossBaP	overall loss flux BaP in water	g/m ³ /d	-1.00	BaP	Los_WK_BaP
dLossAtr	overall loss flux Atrazine in water	g/m ³ /d	-1.00	Atr	Los_WK_Atr
dLossMef	overall loss flux Mef in water	g/m ³ /d	-1.00	Mef	Los_WK_Mef
dLossDiu	overall loss flux Diu in water	g/m ³ /d	-1.00	Diu	Los_WK_Diu
dLoss153S1	overall loss flux 153 in layer S1	g/m ³ /d	-1.00	153S1	Los_S1_153
dLossHCBs1	overall loss flux HCB in layer S1	g/m ³ /d	-1.00	HCBs1	Los_S1_HCB
dLossHCHs1	overall loss flux HCH in layer S1	g/m ³ /d	-1.00	HCHs1	Los_S1_HCH
dLossFluS1	overall loss flux Flu in layer S1	g/m ³ /d	-1.00	FluS1	Los_S1_Flu
dLossBaPS1	overall loss flux BaP in layer S1	g/m ³ /d	-1.00	BaPS1	Los_S1_BaP
dLossAtrS1	overall loss flux Atrazine in layer S1	g/m ³ /d	-1.00	AtrS1	Los_S1_Atr
dLossMefS1	overall loss flux Mef in layer S1	g/m ³ /d	-1.00	MefS1	Los_S1_Mef
dLossDiuS1	overall loss flux Diu in layer S1	g/m ³ /d	-1.00	DiuS1	Los_S1_Diu
dLoss153S2	overall loss flux 153 in layer S2	g/m ³ /d	-1.00	153S2	Los_S2_153
dLossHCBs2	overall loss flux HCB in layer S2	g/m ³ /d	-1.00	HCBs2	Los_S2_HCB
dLossHCHs2	overall loss flux HCH in layer S2	g/m ³ /d	-1.00	HCHs2	Los_S2_HCH
dLossFluS2	overall loss flux Flu in layer S2	g/m ³ /d	-1.00	FluS2	Los_S2_Flu
dLossBaPS2	overall loss flux BaP in layer S2	g/m ³ /d	-1.00	BaPS2	Los_S2_BaP
dLossAtrS2	overall loss flux Atrazine in layer S2	g/m ³ /d	-1.00	AtrS2	Los_S2_Atr
dLossMefS2	overall loss flux Mef in layer S2	g/m ³ /d	-1.00	MefS2	Los_S2_Mef
dLossDiuS2	overall loss flux Diu in layer S2	g/m ³ /d	-1.00	DiuS2	Los_S2_Diu
dSedCd	sedimentation flux Cd towards S1	gCd/m ³ /d	-1.00	Cd	Sed_Cd
dSedCd	sedimentation flux Cd towards S1	gCd/m ³ /d	-1.00	Cd-par	Sed_Cd
dSedCd	sedimentation flux Cd towards S1	gCd/m ³ /d	1.00	CdS1	Sed_Cd
dSedCd	sedimentation flux Cd towards S1	gCd/m ³ /d	1.00	CdS1-par	Sed_Cd
dSedCdS2	sedimentation flux Cd towards S2	gCd/m ³ /d	-1.00	Cd	Sed_Cd
dSedCdS2	sedimentation flux Cd towards S2	gCd/m ³ /d	-1.00	Cd-par	Sed_Cd
dSedCdS2	sedimentation flux Cd towards S2	gCd/m ³ /d	1.00	CdS2	Sed_Cd
dSedCdS2	sedimentation flux Cd towards S2	gCd/m ³ /d	1.00	CdS2-par	Sed_Cd
dSedCu	sedimentation flux Cu towards S1	gCu/m ³ /d	-1.00	Cu	Sed_Cu
dSedCu	sedimentation flux Cu towards S1	gCu/m ³ /d	-1.00	Cu-par	Sed_Cu
dSedCu	sedimentation flux Cu towards S1	gCu/m ³ /d	1.00	CuS1	Sed_Cu
dSedCu	sedimentation flux Cu towards S1	gCu/m ³ /d	1.00	CuS1-par	Sed_Cu
dSedCuS2	sedimentation flux Cu towards S2	gCu/m ³ /d	-1.00	Cu	Sed_Cu
dSedCuS2	sedimentation flux Cu towards S2	gCu/m ³ /d	-1.00	Cu-par	Sed_Cu
dSedCuS2	sedimentation flux Cu towards S2	gCu/m ³ /d	1.00	CuS2	Sed_Cu
dSedCuS2	sedimentation flux Cu towards S2	gCu/m ³ /d	1.00	CuS2-par	Sed_Cu
dSedZn	sedimentation flux Zn towards S1	gZn/m ³ /d	-1.00	Zn	Sed_Zn
dSedZn	sedimentation flux Zn towards S1	gZn/m ³ /d	-1.00	Zn-par	Sed_Zn
dSedZn	sedimentation flux Zn towards S1	gZn/m ³ /d	1.00	ZnS1	Sed_Zn
dSedZn	sedimentation flux Zn towards S1	gZn/m ³ /d	1.00	ZnS1-par	Sed_Zn
dSedZnS2	sedimentation flux Zn towards S2	gZn/m ³ /d	-1.00	Zn	Sed_Zn
dSedZnS2	sedimentation flux Zn towards S2	gZn/m ³ /d	-1.00	Zn-par	Sed_Zn
dSedZnS2	sedimentation flux Zn towards S2	gZn/m ³ /d	1.00	ZnS2	Sed_Zn
dSedZnS2	sedimentation flux Zn towards S2	gZn/m ³ /d	1.00	ZnS2-par	Sed_Zn
dSedHg	sedimentation flux Hg towards S1	gHg/m ³ /d	-1.00	Hg	Sed_Hg
dSedHg	sedimentation flux Hg towards S1	gHg/m ³ /d	-1.00	Hg-par	Sed_Hg
dSedHg	sedimentation flux Hg towards S1	gHg/m ³ /d	1.00	HgS1	Sed_Hg
dSedHg	sedimentation flux Hg towards S1	gHg/m ³ /d	1.00	HgS1-par	Sed_Hg
dSedHgS2	sedimentation flux Hg towards S2	gHg/m ³ /d	-1.00	Hg	Sed_Hg
dSedHgS2	sedimentation flux Hg towards S2	gHg/m ³ /d	-1.00	Hg-par	Sed_Hg

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dSedHgS2	sedimentation flux Hg towards S2	gHg/m ³ /d	1.00	HgS2	Sed_Hg
dSedHgS2	sedimentation flux Hg towards S2	gHg/m ³ /d	1.00	HgS2-par	Sed_Hg
dSedNi	sedimentation flux Ni towards S1	gNi/m ³ /d	-1.00	Ni	Sed_Ni
dSedNi	sedimentation flux Ni towards S1	gNi/m ³ /d	-1.00	Ni-par	Sed_Ni
dSedNi	sedimentation flux Ni towards S1	gNi/m ³ /d	1.00	NiS1	Sed_Ni
dSedNi	sedimentation flux Ni towards S1	gNi/m ³ /d	1.00	NiS1-par	Sed_Ni
dSedNiS2	sedimentation flux Ni towards S2	gNi/m ³ /d	-1.00	Ni	Sed_Ni
dSedNiS2	sedimentation flux Ni towards S2	gNi/m ³ /d	-1.00	Ni-par	Sed_Ni
dSedNiS2	sedimentation flux Ni towards S2	gNi/m ³ /d	1.00	NiS2	Sed_Ni
dSedNiS2	sedimentation flux Ni towards S2	gNi/m ³ /d	1.00	NiS2-par	Sed_Ni
dSedPb	sedimentation flux Pb towards S1	gPb/m ³ /d	-1.00	Pb	Sed_Pb
dSedPb	sedimentation flux Pb towards S1	gPb/m ³ /d	-1.00	Pb-par	Sed_Pb
dSedPb	sedimentation flux Pb towards S1	gPb/m ³ /d	1.00	PbS1	Sed_Pb
dSedPb	sedimentation flux Pb towards S1	gPb/m ³ /d	1.00	PbS1-par	Sed_Pb
dSedPbS2	sedimentation flux Pb towards S2	gPb/m ³ /d	-1.00	Pb	Sed_Pb
dSedPbS2	sedimentation flux Pb towards S2	gPb/m ³ /d	-1.00	Pb-par	Sed_Pb
dSedPbS2	sedimentation flux Pb towards S2	gPb/m ³ /d	1.00	PbS2	Sed_Pb
dSedPbS2	sedimentation flux Pb towards S2	gPb/m ³ /d	1.00	PbS2-par	Sed_Pb
dSedCr	sedimentation flux Cr towards S1	gCr/m ³ /d	-1.00	Cr	Sed_Cr
dSedCr	sedimentation flux Cr towards S1	gCr/m ³ /d	-1.00	Cr-par	Sed_Cr
dSedCr	sedimentation flux Cr towards S1	gCr/m ³ /d	1.00	CrS1	Sed_Cr
dSedCr	sedimentation flux Cr towards S1	gCr/m ³ /d	1.00	CrS1-par	Sed_Cr
dSedCrS2	sedimentation flux Cr towards S2	gCr/m ³ /d	-1.00	Cr	Sed_Cr
dSedCrS2	sedimentation flux Cr towards S2	gCr/m ³ /d	-1.00	Cr-par	Sed_Cr
dSedCrS2	sedimentation flux Cr towards S2	gCr/m ³ /d	1.00	CrS2	Sed_Cr
dSedCrS2	sedimentation flux Cr towards S2	gCr/m ³ /d	1.00	CrS2-par	Sed_Cr
dSedAs	sedimentation flux As towards S1	gAs/m ³ /d	-1.00	As	Sed_As
dSedAs	sedimentation flux As towards S1	gAs/m ³ /d	-1.00	As-par	Sed_As
dSedAs	sedimentation flux As towards S1	gAs/m ³ /d	1.00	AsS1	Sed_As
dSedAs	sedimentation flux As towards S1	gAs/m ³ /d	1.00	AsS1-par	Sed_As
dSedAsS2	sedimentation flux As towards S2	gAs/m ³ /d	-1.00	As	Sed_As
dSedAsS2	sedimentation flux As towards S2	gAs/m ³ /d	-1.00	As-par	Sed_As
dSedAsS2	sedimentation flux As towards S2	gAs/m ³ /d	1.00	AsS2	Sed_As
dSedAsS2	sedimentation flux As towards S2	gAs/m ³ /d	1.00	AsS2-par	Sed_As
dSedVa	sedimentation flux Va towards S1	gVa/m ³ /d	-1.00	Va	Sed_Va
dSedVa	sedimentation flux Va towards S1	gVa/m ³ /d	-1.00	Va-par	Sed_Va
dSedVa	sedimentation flux Va towards S1	gVa/m ³ /d	1.00	VaS1	Sed_Va
dSedVa	sedimentation flux Va towards S1	gVa/m ³ /d	1.00	VaS1-par	Sed_Va
dSedVaS2	sedimentation flux Va towards S2	gVa/m ³ /d	-1.00	Va	Sed_Va
dSedVaS2	sedimentation flux Va towards S2	gVa/m ³ /d	-1.00	Va-par	Sed_Va
dSedVaS2	sedimentation flux Va towards S2	gVa/m ³ /d	1.00	VaS2	Sed_Va
dSedVaS2	sedimentation flux Va towards S2	gVa/m ³ /d	1.00	VaS2-par	Sed_Va
dSed153	sedimentation flux 153	g153/m ³ /d	-1.00	153	Sed_153
dSed153	sedimentation flux 153	g153/m ³ /d	-1.00	153-par	Sed_153
dSed153	sedimentation flux 153	g153/m ³ /d	1.00	153S1	Sed_153
dSed153	sedimentation flux 153	g153/m ³ /d	1.00	153S1-par	Sed_153
dSedHCB	sedimentation flux HCB	gHCB/m ³ /d	-1.00	HCB	Sed_HCB
dSedHCB	sedimentation flux HCB	gHCB/m ³ /d	-1.00	HCB-par	Sed_HCB
dSedHCB	sedimentation flux HCB	gHCB/m ³ /d	1.00	HCBS1	Sed_HCB
dSedHCB	sedimentation flux HCB	gHCB/m ³ /d	1.00	HCBS1-par	Sed_HCB
dSedHCH	sedimentation flux HCH	gHCH/m ³ /d	-1.00	HCH	Sed_HCH
dSedHCH	sedimentation flux HCH	gHCH/m ³ /d	-1.00	HCH-par	Sed_HCH
dSedHCH	sedimentation flux HCH	gHCH/m ³ /d	1.00	HCHS1	Sed_HCH
dSedHCH	sedimentation flux HCH	gHCH/m ³ /d	1.00	HCHS1-par	Sed_HCH
dSedFlu	sedimentation flux Flu	gFlu/m ³ /d	-1.00	Flu	Sed_Flu
dSedFlu	sedimentation flux Flu	gFlu/m ³ /d	-1.00	Flu-par	Sed_Flu
dSedFlu	sedimentation flux Flu	gFlu/m ³ /d	1.00	FluS1	Sed_Flu
dSedFlu	sedimentation flux Flu	gFlu/m ³ /d	1.00	FluS1-par	Sed_Flu
dSedBap	sedimentation flux BaP	gBaP/m ³ /d	-1.00	Bap	Sed_Bap
dSedBap	sedimentation flux BaP	gBaP/m ³ /d	-1.00	Bap-par	Sed_Bap
dSedBap	sedimentation flux BaP	gBaP/m ³ /d	1.00	BapS1	Sed_Bap
dSedBap	sedimentation flux BaP	gBaP/m ³ /d	1.00	BapS1-par	Sed_Bap
dSedAtr	sedimentation flux Atrazine	gAtr/m ³ /d	-1.00	Atr	Sed_Atr
dSedAtr	sedimentation flux Atrazine	gAtr/m ³ /d	-1.00	Atr-par	Sed_Atr
dSedAtr	sedimentation flux Atrazine	gAtr/m ³ /d	1.00	AtrS1	Sed_Atr
dSedAtr	sedimentation flux Atrazine	gAtr/m ³ /d	1.00	AtrS1-par	Sed_Atr
dSedMef	sedimentation flux Mef	gMef/m ³ /d	-1.00	Mef	Sed_Mef
dSedMef	sedimentation flux Mef	gMef/m ³ /d	-1.00	Mef-par	Sed_Mef

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dSedMef	sedimentation flux Mef	gMef/m ³ /d	1.00	MefS1	Sed_Mef
dSedMef	sedimentation flux Mef	gMef/m ³ /d	1.00	MefS1-par	Sed_Mef
dSedDiu	sedimentation flux Diu	gDiu/m ³ /d	-1.00	Diu	Sed_Diu
dSedDiu	sedimentation flux Diu	gDiu/m ³ /d	-1.00	Diu-par	Sed_Diu
dSedDiu	sedimentation flux Diu	gDiu/m ³ /d	1.00	DiuS1	Sed_Diu
dSedDiu	sedimentation flux Diu	gDiu/m ³ /d	1.00	DiuS1-par	Sed_Diu
dResS1As	resuspension flux As from layer S1	gAs/m ³ /d	1.00	As	S12TraAs
dResS1As	resuspension flux As from layer S1	gAs/m ³ /d	-1.00	AsS1	S12TraAs
dResS2As	resuspension flux As from layer S2	gAs/m ³ /d	1.00	As	S12TraAs
dResS2As	resuspension flux As from layer S2	gAs/m ³ /d	-1.00	AsS2	S12TraAs
dBurS1As	burial flux As from layer S1	gAs/m ³ /d	-1.00	AsS1	S12TraAs
dBurS1As	burial flux As from layer S1	gAs/m ³ /d	1.00	AsS2	S12TraAs
dBurS2As	burial flux As from layer S2	gAs/m ³ /d	-1.00	AsS2	S12TraAs
dDigS1As	digging flux As to layer S1	gAs/m ³ /d	1.00	AsS1	S12TraAs
dDigS1As	digging flux As to layer S1	gAs/m ³ /d	-1.00	AsS2	S12TraAs
dDigS2As	digging flux As to layer S2	gAs/m ³ /d	1.00	AsS2	S12TraAs
dResS1Cd	resuspension flux Cd from layer S1	gCd/m ³ /d	1.00	Cd	S12TraCd
dResS1Cd	resuspension flux Cd from layer S1	gCd/m ³ /d	-1.00	CdS1	S12TraCd
dResS2Cd	resuspension flux Cd from layer S2	gCd/m ³ /d	1.00	Cd	S12TraCd
dResS2Cd	resuspension flux Cd from layer S2	gCd/m ³ /d	-1.00	CdS2	S12TraCd
dBurS1Cd	burial flux Cd from layer S1	gCd/m ³ /d	-1.00	CdS1	S12TraCd
dBurS1Cd	burial flux Cd from layer S1	gCd/m ³ /d	1.00	CdS2	S12TraCd
dBurS2Cd	burial flux Cd from layer S2	gCd/m ³ /d	-1.00	CdS2	S12TraCd
dDigS1Cd	digging flux Cd to layer S1	gCd/m ³ /d	1.00	CdS1	S12TraCd
dDigS1Cd	digging flux Cd to layer S1	gCd/m ³ /d	-1.00	CdS2	S12TraCd
dDigS2Cd	digging flux Cd to layer S2	gCd/m ³ /d	1.00	CdS2	S12TraCd
dResS1Cr	resuspension flux Cr from layer S1	gCr/m ³ /d	1.00	Cr	S12TraCr
dResS1Cr	resuspension flux Cr from layer S1	gCr/m ³ /d	-1.00	CrS1	S12TraCr
dResS2Cr	resuspension flux Cr from layer S2	gCr/m ³ /d	1.00	Cr	S12TraCr
dResS2Cr	resuspension flux Cr from layer S2	gCr/m ³ /d	-1.00	CrS2	S12TraCr
dBurS1Cr	burial flux Cr from layer S1	gCr/m ³ /d	-1.00	CrS1	S12TraCr
dBurS1Cr	burial flux Cr from layer S1	gCr/m ³ /d	1.00	CrS2	S12TraCr
dBurS2Cr	burial flux Cr from layer S2	gCr/m ³ /d	-1.00	CrS2	S12TraCr
dDigS1Cr	digging flux Cr to layer S1	gCr/m ³ /d	1.00	CrS1	S12TraCr
dDigS1Cr	digging flux Cr to layer S1	gCr/m ³ /d	-1.00	CrS2	S12TraCr
dDigS2Cr	digging flux Cr to layer S2	gCr/m ³ /d	1.00	CrS2	S12TraCr
dResS1Cu	resuspension flux Cu from layer S1	gCu/m ³ /d	1.00	Cu	S12TraCu
dResS1Cu	resuspension flux Cu from layer S1	gCu/m ³ /d	-1.00	CuS1	S12TraCu
dResS2Cu	resuspension flux Cu from layer S2	gCu/m ³ /d	1.00	Cu	S12TraCu
dResS2Cu	resuspension flux Cu from layer S2	gCu/m ³ /d	-1.00	CuS2	S12TraCu
dBurS1Cu	burial flux Cu from layer S1	gCu/m ³ /d	-1.00	CuS1	S12TraCu
dBurS1Cu	burial flux Cu from layer S1	gCu/m ³ /d	1.00	CuS2	S12TraCu
dBurS2Cu	burial flux Cu from layer S2	gCu/m ³ /d	-1.00	CuS2	S12TraCu
dDigS1Cu	digging flux Cu to layer S1	gCu/m ³ /d	1.00	CuS1	S12TraCu
dDigS1Cu	digging flux Cu to layer S1	gCu/m ³ /d	-1.00	CuS2	S12TraCu
dDigS2Cu	digging flux Cu to layer S2	gCu/m ³ /d	1.00	CuS2	S12TraCu
dResS1Hg	resuspension flux Hg from layer S1	gHg/m ³ /d	1.00	Hg	S12TraHg
dResS1Hg	resuspension flux Hg from layer S1	gHg/m ³ /d	-1.00	HgS1	S12TraHg
dResS2Hg	resuspension flux Hg from layer S2	gHg/m ³ /d	1.00	Hg	S12TraHg
dResS2Hg	resuspension flux Hg from layer S2	gHg/m ³ /d	-1.00	HgS2	S12TraHg
dBurS1Hg	burial flux Hg from layer S1	gHg/m ³ /d	-1.00	HgS1	S12TraHg
dBurS1Hg	burial flux Hg from layer S1	gHg/m ³ /d	1.00	HgS2	S12TraHg
dBurS2Hg	burial flux Hg from layer S2	gHg/m ³ /d	-1.00	HgS2	S12TraHg
dDigS1Hg	digging flux Hg to layer S1	gHg/m ³ /d	1.00	HgS1	S12TraHg
dDigS1Hg	digging flux Hg to layer S1	gHg/m ³ /d	-1.00	HgS2	S12TraHg
dDigS2Hg	digging flux Hg to layer S2	gHg/m ³ /d	1.00	HgS2	S12TraHg
dResS1Ni	resuspension flux Ni from layer S1	gNi/m ³ /d	1.00	Ni	S12TraNi
dResS1Ni	resuspension flux Ni from layer S1	gNi/m ³ /d	-1.00	NiS1	S12TraNi
dResS2Ni	resuspension flux Ni from layer S2	gNi/m ³ /d	1.00	Ni	S12TraNi
dResS2Ni	resuspension flux Ni from layer S2	gNi/m ³ /d	-1.00	NiS2	S12TraNi
dBurS1Ni	burial flux Ni from layer S1	gNi/m ³ /d	-1.00	NiS1	S12TraNi
dBurS1Ni	burial flux Ni from layer S1	gNi/m ³ /d	1.00	NiS2	S12TraNi
dBurS2Ni	burial flux Ni from layer S2	gNi/m ³ /d	-1.00	NiS2	S12TraNi
dDigS1Ni	digging flux Ni to layer S1	gNi/m ³ /d	1.00	NiS1	S12TraNi
dDigS1Ni	digging flux Ni to layer S1	gNi/m ³ /d	-1.00	NiS2	S12TraNi
dDigS2Ni	digging flux Ni to layer S2	gNi/m ³ /d	1.00	NiS2	S12TraNi
dResS1Pb	resuspension flux Pb from layer S1	gPb/m ³ /d	1.00	Pb	S12TraPb
dResS1Pb	resuspension flux Pb from layer S1	gPb/m ³ /d	-1.00	PbS1	S12TraPb

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dResS2Pb	resuspension flux Pb from layer S2	gPb/m ³ /d	1.00	Pb	S12TraPb
dResS2Pb	resuspension flux Pb from layer S2	gPb/m ³ /d	-1.00	PbS2	S12TraPb
dBurS1Pb	burial flux Pb from layer S1	gPb/m ³ /d	-1.00	PbS1	S12TraPb
dBurS1Pb	burial flux Pb from layer S1	gPb/m ³ /d	1.00	PbS2	S12TraPb
dBurS2Pb	burial flux Pb from layer S2	gPb/m ³ /d	-1.00	PbS2	S12TraPb
dDigS1Pb	digging flux Pb to layer S1	gPb/m ³ /d	1.00	PbS1	S12TraPb
dDigS1Pb	digging flux Pb to layer S1	gPb/m ³ /d	-1.00	PbS2	S12TraPb
dDigS2Pb	digging flux Pb to layer S2	gPb/m ³ /d	1.00	PbS2	S12TraPb
dResS1Va	resuspension flux Va from layer S1	gVa/m ³ /d	1.00	Va	S12TraVa
dResS1Va	resuspension flux Va from layer S1	gVa/m ³ /d	-1.00	VaS1	S12TraVa
dResS2Va	resuspension flux Va from layer S2	gVa/m ³ /d	1.00	Va	S12TraVa
dResS2Va	resuspension flux Va from layer S2	gVa/m ³ /d	-1.00	VaS2	S12TraVa
dBurS1Va	burial flux Va from layer S1	gVa/m ³ /d	-1.00	VaS1	S12TraVa
dBurS1Va	burial flux Va from layer S1	gVa/m ³ /d	1.00	VaS2	S12TraVa
dBurS2Va	burial flux Va from layer S2	gVa/m ³ /d	-1.00	VaS2	S12TraVa
dDigS1Va	digging flux Va to layer S1	gVa/m ³ /d	1.00	VaS1	S12TraVa
dDigS1Va	digging flux Va to layer S1	gVa/m ³ /d	-1.00	VaS2	S12TraVa
dDigS2Va	digging flux Va to layer S2	gVa/m ³ /d	1.00	VaS2	S12TraVa
dResS1Zn	resuspension flux Zn from layer S1	gZn/m ³ /d	1.00	Zn	S12TraZn
dResS1Zn	resuspension flux Zn from layer S1	gZn/m ³ /d	-1.00	ZnS1	S12TraZn
dResS2Zn	resuspension flux Zn from layer S2	gZn/m ³ /d	1.00	Zn	S12TraZn
dResS2Zn	resuspension flux Zn from layer S2	gZn/m ³ /d	-1.00	ZnS2	S12TraZn
dBurS1Zn	burial flux Zn from layer S1	gZn/m ³ /d	-1.00	ZnS1	S12TraZn
dBurS1Zn	burial flux Zn from layer S1	gZn/m ³ /d	1.00	ZnS2	S12TraZn
dBurS2Zn	burial flux Zn from layer S2	gZn/m ³ /d	-1.00	ZnS2	S12TraZn
dDigS1Zn	digging flux Zn to layer S1	gZn/m ³ /d	1.00	ZnS1	S12TraZn
dDigS1Zn	digging flux Zn to layer S1	gZn/m ³ /d	-1.00	ZnS2	S12TraZn
dDigS2Zn	digging flux Zn to layer S2	gZn/m ³ /d	1.00	ZnS2	S12TraZn
dResS1153	resuspension flux 153 from layer S1	g153/m ³ /d	1.00	153	S12Tra153
dResS1153	resuspension flux 153 from layer S1	g153/m ³ /d	-1.00	153S1	S12Tra153
dResS2153	resuspension flux 153 from layer S2	g153/m ³ /d	1.00	153	S12Tra153
dResS2153	resuspension flux 153 from layer S2	g153/m ³ /d	-1.00	153S2	S12Tra153
dBurS1153	burial flux 153 from layer S1	g153/m ³ /d	-1.00	153S1	S12Tra153
dBurS1153	burial flux 153 from layer S1	g153/m ³ /d	1.00	153S2	S12Tra153
dBurS2153	burial flux 153 from layer S2	g153/m ³ /d	-1.00	153S2	S12Tra153
dDigS1153	digging flux 153 to layer S1	g153/m ³ /d	1.00	153S1	S12Tra153
dDigS1153	digging flux 153 to layer S1	g153/m ³ /d	-1.00	153S2	S12Tra153
dDigS2153	digging flux 153 to layer S2	g153/m ³ /d	1.00	153S2	S12Tra153
dResS1Atr	resuspension flux Atr from layer S1	gAtr/m ³ /d	1.00	Atr	S12TraAtr
dResS1Atr	resuspension flux Atr from layer S1	gAtr/m ³ /d	-1.00	AtrS1	S12TraAtr
dResS2Atr	resuspension flux Atr from layer S2	gAtr/m ³ /d	1.00	Atr	S12TraAtr
dResS2Atr	resuspension flux Atr from layer S2	gAtr/m ³ /d	-1.00	AtrS2	S12TraAtr
dBurS1Atr	burial flux Atr from layer S1	gAtr/m ³ /d	-1.00	AtrS1	S12TraAtr
dBurS1Atr	burial flux Atr from layer S1	gAtr/m ³ /d	1.00	AtrS2	S12TraAtr
dBurS2Atr	burial flux Atr from layer S2	gAtr/m ³ /d	-1.00	AtrS2	S12TraAtr
dDigS1Atr	digging flux Atr to layer S1	gAtr/m ³ /d	1.00	AtrS1	S12TraAtr
dDigS1Atr	digging flux Atr to layer S1	gAtr/m ³ /d	-1.00	AtrS2	S12TraAtr
dDigS2Atr	digging flux Atr to layer S2	gAtr/m ³ /d	1.00	AtrS2	S12TraAtr
dResS1Mef	resuspension flux Mef from layer S1	gMef/m ³ /d	1.00	Mef	S12TraMef
dResS1Mef	resuspension flux Mef from layer S1	gMef/m ³ /d	-1.00	MefS1	S12TraMef
dResS2Mef	resuspension flux Mef from layer S2	gMef/m ³ /d	1.00	Mef	S12TraMef
dResS2Mef	resuspension flux Mef from layer S2	gMef/m ³ /d	-1.00	MefS2	S12TraMef
dBurS1Mef	burial flux Mef from layer S1	gMef/m ³ /d	-1.00	MefS1	S12TraMef
dBurS1Mef	burial flux Mef from layer S1	gMef/m ³ /d	1.00	MefS2	S12TraMef
dBurS2Mef	burial flux Mef from layer S2	gMef/m ³ /d	-1.00	MefS2	S12TraMef
dDigS1Mef	digging flux Mef to layer S1	gMef/m ³ /d	1.00	MefS1	S12TraMef
dDigS1Mef	digging flux Mef to layer S1	gMef/m ³ /d	-1.00	MefS2	S12TraMef
dDigS2Mef	digging flux Mef to layer S2	gMef/m ³ /d	1.00	MefS2	S12TraMef
dResS1Diu	resuspension flux Diu from layer S1	gDiu/m ³ /d	1.00	Diu	S12TraDiu
dResS1Diu	resuspension flux Diu from layer S1	gDiu/m ³ /d	-1.00	DiuS1	S12TraDiu
dResS2Diu	resuspension flux Diu from layer S2	gDiu/m ³ /d	1.00	Diu	S12TraDiu
dResS2Diu	resuspension flux Diu from layer S2	gDiu/m ³ /d	-1.00	DiuS2	S12TraDiu
dBurS1Diu	burial flux Diu from layer S1	gDiu/m ³ /d	-1.00	DiuS1	S12TraDiu
dBurS1Diu	burial flux Diu from layer S1	gDiu/m ³ /d	1.00	DiuS2	S12TraDiu
dBurS2Diu	burial flux Diu from layer S2	gDiu/m ³ /d	-1.00	DiuS2	S12TraDiu
dDigS1Diu	digging flux Diu to layer S1	gDiu/m ³ /d	1.00	DiuS1	S12TraDiu
dDigS1Diu	digging flux Diu to layer S1	gDiu/m ³ /d	-1.00	DiuS2	S12TraDiu
dDigS2Diu	digging flux Diu to layer S2	gDiu/m ³ /d	1.00	DiuS2	S12TraDiu

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dResS1BaP	resuspension flux BaP from layer S1	gBaP/m ³ /d	1.00	BaP	S12TraBaP
dResS1BaP	resuspension flux BaP from layer S1	gBaP/m ³ /d	-1.00	BaPS1	S12TraBaP
dResS2BaP	resuspension flux BaP from layer S2	gBaP/m ³ /d	1.00	BaP	S12TraBaP
dResS2BaP	resuspension flux BaP from layer S2	gBaP/m ³ /d	-1.00	BaPS2	S12TraBaP
dBurS1BaP	burial flux BaP from layer S1	gBaP/m ³ /d	-1.00	BaPS1	S12TraBaP
dBurS1BaP	burial flux BaP from layer S1	gBaP/m ³ /d	1.00	BaPS2	S12TraBaP
dBurS2BaP	burial flux BaP from layer S2	gBaP/m ³ /d	-1.00	BaPS2	S12TraBaP
dDigS1BaP	digging flux BaP to layer S1	gBaP/m ³ /d	1.00	BaPS1	S12TraBaP
dDigS1BaP	digging flux BaP to layer S1	gBaP/m ³ /d	-1.00	BaPS2	S12TraBaP
dDigS2BaP	digging flux BaP to layer S2	gBaP/m ³ /d	1.00	BaPS2	S12TraBaP
dResS1OMP	resuspension flux OMP from layer S1	gOMP/m ³ /d	1.00	OMP	S12TraOMP
dResS1OMP	resuspension flux OMP from layer S1	gOMP/m ³ /d	-1.00	OMPS1	S12TraOMP
dResS2OMP	resuspension flux OMP from layer S2	gOMP/m ³ /d	1.00	OMP	S12TraOMP
dResS2OMP	resuspension flux OMP from layer S2	gOMP/m ³ /d	-1.00	OMPS2	S12TraOMP
dBurS1OMP	burial flux OMP from layer S1	gOMP/m ³ /d	-1.00	OMPS1	S12TraOMP
dBurS1OMP	burial flux OMP from layer S1	gOMP/m ³ /d	1.00	OMPS2	S12TraOMP
dBurS2OMP	burial flux OMP from layer S2	gOMP/m ³ /d	-1.00	OMPS2	S12TraOMP
dDigS1OMP	digging flux OMP to layer S1	gOMP/m ³ /d	1.00	OMPS1	S12TraOMP
dDigS1OMP	digging flux OMP to layer S1	gOMP/m ³ /d	-1.00	OMPS2	S12TraOMP
dDigS2OMP	digging flux OMP to layer S2	gOMP/m ³ /d	1.00	OMPS2	S12TraOMP
dResS1Flu	resuspension flux Flu from layer S1	gFlu/m ³ /d	1.00	Flu	S12TraFlu
dResS1Flu	resuspension flux Flu from layer S1	gFlu/m ³ /d	-1.00	FluS1	S12TraFlu
dResS2Flu	resuspension flux Flu from layer S2	gFlu/m ³ /d	1.00	Flu	S12TraFlu
dResS2Flu	resuspension flux Flu from layer S2	gFlu/m ³ /d	-1.00	FluS2	S12TraFlu
dBurS1Flu	burial flux Flu from layer S1	gFlu/m ³ /d	-1.00	FluS1	S12TraFlu
dBurS1Flu	burial flux Flu from layer S1	gFlu/m ³ /d	1.00	FluS2	S12TraFlu
dBurS2Flu	burial flux Flu from layer S2	gFlu/m ³ /d	-1.00	FluS2	S12TraFlu
dDigS1Flu	digging flux Flu to layer S1	gFlu/m ³ /d	1.00	FluS1	S12TraFlu
dDigS1Flu	digging flux Flu to layer S1	gFlu/m ³ /d	-1.00	FluS2	S12TraFlu
dDigS2Flu	digging flux Flu to layer S2	gFlu/m ³ /d	1.00	FluS2	S12TraFlu
dResS1HCB	resuspension flux HCB from layer S1	gHCB/m ³ /d	1.00	HCB	S12TraHCB
dResS1HCB	resuspension flux HCB from layer S1	gHCB/m ³ /d	-1.00	HCBS1	S12TraHCB
dResS2HCB	resuspension flux HCB from layer S2	gHCB/m ³ /d	1.00	HCB	S12TraHCB
dResS2HCB	resuspension flux HCB from layer S2	gHCB/m ³ /d	-1.00	HCBS2	S12TraHCB
dBurS1HCB	burial flux HCB from layer S1	gHCB/m ³ /d	-1.00	HCBS1	S12TraHCB
dBurS1HCB	burial flux HCB from layer S1	gHCB/m ³ /d	1.00	HCBS2	S12TraHCB
dBurS2HCB	burial flux HCB from layer S2	gHCB/m ³ /d	-1.00	HCBS2	S12TraHCB
dDigS1HCB	digging flux HCB to layer S1	gHCB/m ³ /d	1.00	HCBS1	S12TraHCB
dDigS1HCB	digging flux HCB to layer S1	gHCB/m ³ /d	-1.00	HCBS2	S12TraHCB
dDigS2HCB	digging flux HCB to layer S2	gHCB/m ³ /d	1.00	HCBS2	S12TraHCB
dResS1HCH	resuspension flux HCH from layer S1	gHCH/m ³ /d	1.00	HCH	S12TraHCH
dResS1HCH	resuspension flux HCH from layer S1	gHCH/m ³ /d	-1.00	HCHS1	S12TraHCH
dResS2HCH	resuspension flux HCH from layer S2	gHCH/m ³ /d	1.00	HCH	S12TraHCH
dResS2HCH	resuspension flux HCH from layer S2	gHCH/m ³ /d	-1.00	HCHS2	S12TraHCH
dBurS1HCH	burial flux HCH from layer S1	gHCH/m ³ /d	-1.00	HCHS1	S12TraHCH
dBurS1HCH	burial flux HCH from layer S1	gHCH/m ³ /d	1.00	HCHS2	S12TraHCH
dBurS2HCH	burial flux HCH from layer S2	gHCH/m ³ /d	-1.00	HCHS2	S12TraHCH
dDigS1HCH	digging flux HCH to layer S1	gHCH/m ³ /d	1.00	HCHS1	S12TraHCH
dDigS1HCH	digging flux HCH to layer S1	gHCH/m ³ /d	-1.00	HCHS2	S12TraHCH
dDigS2HCH	digging flux HCH to layer S2	gHCH/m ³ /d	1.00	HCHS2	S12TraHCH
dEvapConti	nett evaporation and rain continuity	m/d	1.00	Continuity	Evap_Conti
dEvapConti	nett evaporation and rain continuity	m/d	1.00	Prec	Evap_Conti
dAtmDepIM1	atmospheric deposition flux IM1	g/m ³ /d	1.00	IM1	AtmDep_IM1
dAtmDepIM2	atmospheric deposition flux IM2	g/m ³ /d	1.00	IM2	AtmDep_IM2
dAtmDepIM3	atmospheric deposition flux IM3	g/m ³ /d	1.00	IM3	AtmDep_IM3
dDfwastIM1	diffusive waste flux IM1	g/m ³ /d	1.00	IM1	Dfwast_IM1
dDfwastIM2	diffusive waste flux IM2	g/m ³ /d	1.00	IM2	Dfwast_IM2
dDfwastIM3	diffusive waste flux IM3	g/m ³ /d	1.00	IM3	Dfwast_IM3
dAtmDepNH4	atmospheric deposition flux NH4	gN/m ³ /d	1.00	NH4	AtmDep_NH4
dAtmDepNH4	atmospheric deposition flux NH4	gN/m ³ /d	4.36	ALKA	AtmDep_NH4
dAtmDepNO3	atmospheric deposition flux NO3	gNO3/m ³ /d	1.00	NO3	AtmDep_NO3
dAtmDepNO3	atmospheric deposition flux NO3	gNO3/m ³ /d	0.07	H+	AtmDep_NO3
dAtmDepNO3	atmospheric deposition flux NO3	gNO3/m ³ /d	-4.36	ALKA	AtmDep_NO3
dAtmDepPO4	atmospheric deposition flux PO4	gP/m ³ /d	1.00	PO4	AtmDep_PO4
dAtmDepSO4	atmospheric deposition flux SO4	gS/m ³ /d	1.00	SO4	AtmDep_SO4
dAtmDepSO4	atmospheric deposition flux SO4	gS/m ³ /d	0.14	H+	AtmDep_SO4
dAtmDepSO4	atmospheric deposition flux SO4	gS/m ³ /d	-8.71	ALKA	AtmDep_SO4
dAtmDep153	atmospheric deposition flux 153	g153/m ³ /d	1.00	153	AtmDep_153

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dAtmDep153	atmospheric deposition flux 153	g153/m ³ /d	1.00	153-Par	AtmDep_153
dAtmDepHCB	atmospheric deposition flux HCB	gHCB/m ³ /d	1.00	HCB	AtmDep_HCB
dAtmDepHCB	atmospheric deposition flux HCB	gHCB/m ³ /d	1.00	HCB-Par	AtmDep_HCB
dAtmDepHCH	atmospheric deposition flux HCH	gHCH/m ³ /d	1.00	HCH	AtmDep_HCH
dAtmDepHCH	atmospheric deposition flux HCH	gHCH/m ³ /d	1.00	HCH-Par	AtmDep_HCH
dAtmDepFlu	atmospheric deposition flux Flu	gFlu/m ³ /d	1.00	Flu	AtmDep_Flu
dAtmDepFlu	atmospheric deposition flux Flu	gFlu/m ³ /d	1.00	Flu-Par	AtmDep_Flu
dAtmDepBap	atmospheric deposition flux BaP	gBaP/m ³ /d	1.00	Bap	AtmDep_Bap
dAtmDepBap	atmospheric deposition flux BaP	gBaP/m ³ /d	1.00	Bap-Par	AtmDep_Bap
dAtmDepAtr	atmospheric deposition flux Atrazine	gAtr/m ³ /d	1.00	Atr	AtmDep_Atr
dAtmDepAtr	atmospheric deposition flux Atrazine	gAtr/m ³ /d	1.00	Atr-Par	AtmDep_Atr
dAtmDepMef	atmospheric deposition flux Mef	gMef/m ³ /d	1.00	Mef	AtmDep_Mef
dAtmDepMef	atmospheric deposition flux Mef	gMef/m ³ /d	1.00	Mef-Par	AtmDep_Mef
dAtmDepDiu	atmospheric deposition flux Diu	gDiu/m ³ /d	1.00	Diu	AtmDep_Diu
dAtmDepDiu	atmospheric deposition flux Diu	gDiu/m ³ /d	1.00	Diu-Par	AtmDep_Diu
dAtmDepCd	atmospheric deposition flux Cd	gCd/m ³ /d	1.00	Cd	AtmDep_Cd
dAtmDepCd	atmospheric deposition flux Cd	gCd/m ³ /d	1.00	Cd-Par	AtmDep_Cd
dAtmDepCu	atmospheric deposition flux Cu	gCu/m ³ /d	1.00	Cu	AtmDep_Cu
dAtmDepCu	atmospheric deposition flux Cu	gCu/m ³ /d	1.00	Cu-Par	AtmDep_Cu
dAtmDepZn	atmospheric deposition flux Zn	gZn/m ³ /d	1.00	Zn	AtmDep_Zn
dAtmDepZn	atmospheric deposition flux Zn	gZn/m ³ /d	1.00	Zn-Par	AtmDep_Zn
dAtmDepHg	atmospheric deposition flux Hg	gHg/m ³ /d	1.00	Hg	AtmDep_Hg
dAtmDepHg	atmospheric deposition flux Hg	gHg/m ³ /d	1.00	Hg-Par	AtmDep_Hg
dAtmDepNi	atmospheric deposition flux Ni	gNi/m ³ /d	1.00	Ni	AtmDep_Ni
dAtmDepNi	atmospheric deposition flux Ni	gNi/m ³ /d	1.00	Ni-Par	AtmDep_Ni
dAtmDepPb	atmospheric deposition flux Pb	gPb/m ³ /d	1.00	Pb	AtmDep_Pb
dAtmDepPb	atmospheric deposition flux Pb	gPb/m ³ /d	1.00	Pb-Par	AtmDep_Pb
dAtmDepCr	atmospheric deposition flux Cr	gCr/m ³ /d	1.00	Cr	AtmDep_Cr
dAtmDepCr	atmospheric deposition flux Cr	gCr/m ³ /d	1.00	Cr-Par	AtmDep_Cr
dAtmDepAs	atmospheric deposition flux As	gAs/m ³ /d	1.00	As	AtmDep_As
dAtmDepAs	atmospheric deposition flux As	gAs/m ³ /d	1.00	As-Par	AtmDep_As
dAtmDepVa	atmospheric deposition flux Va	gVa/m ³ /d	1.00	Va	AtmDep_Va
dAtmDepVa	atmospheric deposition flux Va	gVa/m ³ /d	1.00	Va-Par	AtmDep_Va
dDfwastNO3	diffusive waste flux NO3	gN/m ³ /d	1.00	NO3	Dfwast_NO3
dDfwastNH4	diffusive waste flux NH4	gN/m ³ /d	1.00	NH4	Dfwast_NH4
dDfwastPO4	diffusive waste flux PO4	gP/m ³ /d	1.00	PO4	Dfwast_PO4
dDfwastSi	diffusive waste flux Si	gSi/m ³ /d	1.00	Si	Dfwast_Si
dDfwastSO4	diffusive waste flux SO4	gS/m ³ /d	1.00	SO4	Dfwast_SO4
dDfwast153	diffusive waste flux 153	g153/m ³ /d	1.00	153	Dfwast_153
dDfwast153	diffusive waste flux 153	g153/m ³ /d	1.00	153-Par	Dfwast_153
dDfwastHCB	diffusive waste flux HCB	gHCB/m ³ /d	1.00	HCB	Dfwast_HCB
dDfwastHCB	diffusive waste flux HCB	gHCB/m ³ /d	1.00	HCB-Par	Dfwast_HCB
dDfwastHCH	diffusive waste flux HCH	gHCH/m ³ /d	1.00	HCH	Dfwast_HCH
dDfwastHCH	diffusive waste flux HCH	gHCH/m ³ /d	1.00	HCH-Par	Dfwast_HCH
dDfwastFlu	diffusive waste flux Flu	gFlu/m ³ /d	1.00	Flu	Dfwast_Flu
dDfwastFlu	diffusive waste flux Flu	gFlu/m ³ /d	1.00	Flu-Par	Dfwast_Flu
dDfwastBap	diffusive waste flux BaP	gBaP/m ³ /d	1.00	Bap	Dfwast_Bap
dDfwastBap	diffusive waste flux BaP	gBaP/m ³ /d	1.00	Bap-Par	Dfwast_Bap
dDfwastAtr	diffusive waste flux Atrazine	gAtr/m ³ /d	1.00	Atr	Dfwast_Atr
dDfwastAtr	diffusive waste flux Atrazine	gAtr/m ³ /d	1.00	Atr-Par	Dfwast_Atr
dDfwastMef	diffusive waste flux Mef	gMef/m ³ /d	1.00	Mef	Dfwast_Mef
dDfwastMef	diffusive waste flux Mef	gMef/m ³ /d	1.00	Mef-Par	Dfwast_Mef
dDfwastDiu	diffusive waste flux Diu	gDiu/m ³ /d	1.00	Diu	Dfwast_Diu
dDfwastDiu	diffusive waste flux Diu	gDiu/m ³ /d	1.00	Diu-Par	Dfwast_Diu
dDfwastCd	diffusive waste flux Cd	gCd/m ³ /d	1.00	Cd	Dfwast_Cd
dDfwastCd	diffusive waste flux Cd	gCd/m ³ /d	1.00	Cd-Par	Dfwast_Cd
dDfwastCu	diffusive waste flux Cu	gCu/m ³ /d	1.00	Cu	Dfwast_Cu
dDfwastCu	diffusive waste flux Cu	gCu/m ³ /d	1.00	Cu-Par	Dfwast_Cu
dDfwastZn	diffusive waste flux Zn	gZn/m ³ /d	1.00	Zn	Dfwast_Zn
dDfwastZn	diffusive waste flux Zn	gZn/m ³ /d	1.00	Zn-Par	Dfwast_Zn
dDfwastHg	diffusive waste flux Hg	gHg/m ³ /d	1.00	Hg	Dfwast_Hg
dDfwastHg	diffusive waste flux Hg	gHg/m ³ /d	1.00	Hg-Par	Dfwast_Hg
dDfwastNi	diffusive waste flux Ni	gNi/m ³ /d	1.00	Ni	Dfwast_Ni
dDfwastNi	diffusive waste flux Ni	gNi/m ³ /d	1.00	Ni-Par	Dfwast_Ni
dDfwastPb	diffusive waste flux Pb	gPb/m ³ /d	1.00	Pb	Dfwast_Pb
dDfwastPb	diffusive waste flux Pb	gPb/m ³ /d	1.00	Pb-Par	Dfwast_Pb
dDfwastCr	diffusive waste flux Cr	gCr/m ³ /d	1.00	Cr	Dfwast_Cr
dDfwastCr	diffusive waste flux Cr	gCr/m ³ /d	1.00	Cr-Par	Dfwast_Cr

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dDfwastAs	diffusive waste flux As	gAs/m ³ /d	1.00	As	Dfwast_As
dDfwastAs	diffusive waste flux As	gAs/m ³ /d	1.00	As-Par	Dfwast_As
dDfwastVa	diffusive waste flux Va	gVa/m ³ /d	1.00	Va	Dfwast_Va
dDfwastVa	diffusive waste flux Va	gVa/m ³ /d	1.00	Va-Par	Dfwast_Va
dDumNH3fre	dummy flux to access NH3free	-	0.00	NH4	NH3free
dDumPosOXY	dummy flux to access posoxy	-	0.00	OXY	PosOXY
dDumSecchi	dummy flux to access Secchi	-	0.00	IM1	Secchi
dDumSecchi	dummy flux to access Secchi	-	0.00	POC1	Secchi
dTEWORBOD	TEWOR production flux of CBOD5	gO2/m ³ /d	1.00	CBOD5	Prod_TEWOR
dTEWORBOD2	TEWOR production flux of CBOD5_2	gO2/m ³ /d	1.00	CBOD5_2	Prod_TEWOR
dTEWORBOD3	TEWOR production flux of CBOD5_3	gO2/m ³ /d	1.00	CBOD5_3	Prod_TEWOR
dTEWORCOD	TEWOR production flux of COD_Cr	gO2/m ³ /d	1.00	COD_Cr	Prod_TEWOR
dTEWOROXY	TEWOR production flux of OXY	gO2/m ³ /d	1.00	OXY	Prod_TEWOR
dTEWOROrgN	TEWOR production flux of Org-N	gN/m ³ /d	1.00	PON1	Prod_TEWOR
dTEWORNH4	TEWOR production flux of NH4	gN/m ³ /d	1.00	NH4	Prod_TEWOR
dTEWORN03	TEWOR production flux of NO3	gN/m ³ /d	1.00	NO3	Prod_TEWOR
dTEWOROON	TEWOR production flux of OON	gN/m ³ /d	1.00	PON2	Prod_TEWOR
dTEWORECol	TEWOR production flux of EColi	MPN/m ³ /d	1.00	EColi	Prod_TEWOR
dSorpOMPS1	sorption flux OMP inS1	gOMP/m ³ /d	-1.00	OMPS1-Dis	PartS1_OMP
dSorpOMPS1	sorption flux OMP inS1	gOMP/m ³ /d	1.00	OMPS1-Par	PartS1_OMP
dSorpOMPS2	sorption flux OMP inS2	gOMP/m ³ /d	-1.00	OMPS2-Dis	PartS2_OMP
dSorpOMPS2	sorption flux OMP inS2	gOMP/m ³ /d	1.00	OMPS2-Par	PartS2_OMP
dSorpOMP	sorption flux OMP	gOMP/m ³ /d	-1.00	OMP-dis	PartWK_OMP
dSorpOMP	sorption flux OMP	gOMP/m ³ /d	1.00	OMP-par	PartWK_OMP
dVolatOMP	volatilisation flux OMP	g/m ³ /d	-1.00	OMP	Volat_OMP
dVolatOMP	volatilisation flux OMP	g/m ³ /d	-1.00	OMP-dis	Volat_OMP
dLossOMP	overall loss flux OMP in water	g/m ³ /d	-1.00	OMP	Los_WK_OMP
dLossOMPS1	overall loss flux OMP in S1	g/m ³ /d	-1.00	OMPS1	Los_S1_OMP
dLossOMPS2	overall loss flux OMP in S2	g/m ³ /d	-1.00	OMPS2	Los_S2_OMP
dSedOMP	sedimentation flux OMP	gOMP/m ³ /d	-1.00	OMP	Sed_OMP
dSedOMP	sedimentation flux OMP	gOMP/m ³ /d	-1.00	OMP-par	Sed_OMP
dSedOMP	sedimentation flux OMP	gOMP/m ³ /d	1.00	OMPS1	Sed_OMP
dSedOMP	sedimentation flux OMP	gOMP/m ³ /d	1.00	OMPS1-par	Sed_OMP
dAtmDepOMP	atmospheric deposition flux OMP	gOMP/m ³ /d	1.00	OMP	AtmDep_OMP
dAtmDepOMP	atmospheric deposition flux OMP	gOMP/m ³ /d	1.00	OMP-Par	AtmDep_OMP
dDfwastOMP	diffusive waste flux OMP	gOMP/m ³ /d	1.00	OMP	Dfwast_OMP
dDfwastOMP	diffusive waste flux OMP	gOMP/m ³ /d	1.00	OMP-Par	Dfwast_OMP
dDamrear	oxygen production flux at weirs	gO2/m ³ /d	1.00	OXY	Damrear
dTRSOXY	direct reparation towards sediment	g/m ³ /d	1.00	OXY	TRSOXY
dPrecAPPO4	precipitation flux PO4 to apatite	gP/m ³ /d	-1.00	PO4	APATITE
dPrecAPPO4	precipitation flux PO4 to apatite	gP/m ³ /d	1.00	APATP	APATITE
dDissAPPO4	dissolution flux apatite to PO4	gP/m ³ /d	1.00	PO4	APATITE
dDissAPPO4	dissolution flux apatite to PO4	gP/m ³ /d	-1.00	APATP	APATITE
dVB01	growth rate vegetation biomass cohort 1	gC/m ³ /d	1.00	VB01	VBGrowth01
dMrtC1VB01	mortality stem VB01	gC/m ³ /d	-1.00	VB01	VB01_Mrt3W
dMrtC3VB01	mortality branch VB01	gC/m ³ /d	-1.00	VB01	VB01_Mrt3W
dMrtC4VB01	mortality root VB01	gC/m ³ /d	-1.00	VB01	VB01_Mrt3W
dMrtC2VB01	mortality foliage VB01	gC/m ³ /d	-1.00	VB01	VB01_Mrt3W
dMrtC5VB01	mortality fineroot VB01	gC/m ³ /d	-1.00	VB01	VB01_Mrt3W
dMC2VB01P1	dMC2VB01P1	no unit	1.00	POC1	VB01_Mrt3W
dMC2VB01P2	dMC2VB01P2	no unit	1.00	POC2	VB01_Mrt3W
dMC2VB01P3	dMC2VB01P3	no unit	1.00	POC3	VB01_Mrt3W
dMN2VB01P1	dMN2VB01P1	no unit	1.00	PON1	VB01_Mrt3W
dMN2VB01P2	dMN2VB01P2	no unit	1.00	PON2	VB01_Mrt3W
dMN2VB01P3	dMN2VB01P3	no unit	1.00	PON3	VB01_Mrt3W
dMP2VB01P1	dMP2VB01P1	no unit	1.00	POP1	VB01_Mrt3W
dMP2VB01P2	dMP2VB01P2	no unit	1.00	POP2	VB01_Mrt3W
dMP2VB01P3	dMP2VB01P3	no unit	1.00	POP3	VB01_Mrt3W
dMS2VB01P1	dMS2VB01P1	no unit	1.00	POS1	VB01_Mrt3W
dMS2VB01P2	dMS2VB01P2	no unit	1.00	POS2	VB01_Mrt3W
dMS2VB01P3	dMS2VB01P3	no unit	1.00	POS3	VB01_Mrt3W
dMC1VB01P5	dMC1VB01P5	no unit	1.00	POC5	VB01_Mrt3W
dMC3VB01P5	dMC3VB01P5	no unit	1.00	POC5	VB01_Mrt3W
dMN1VB01P5	dMN1VB01P5	no unit	1.00	PON5	VB01_Mrt3W
dMN3VB01P5	dMN3VB01P5	no unit	1.00	PON5	VB01_Mrt3W
dMP1VB01P5	dMP1VB01P5	no unit	1.00	POP5	VB01_Mrt3W
dMP3VB01P5	dMP3VB01P5	no unit	1.00	POP5	VB01_Mrt3W
dMS1VB01P5	dMS1VB01P5	no unit	1.00	POS5	VB01_Mrt3W

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dMS3VB01P5	dMS3VB01P5	no unit	1.00	POS5	VB01_Mrt3W
dMC5VB01P1	dMC5VB01P1	no unit	1.00	POC1	VB01_Mrt3S
dMC5VB01P2	dMC5VB01P2	no unit	1.00	POC2	VB01_Mrt3S
dMC5VB01P3	dMC5VB01P3	no unit	1.00	POC3	VB01_Mrt3S
dMN5VB01P1	dMN5VB01P1	no unit	1.00	PON1	VB01_Mrt3S
dMN5VB01P2	dMN5VB01P2	no unit	1.00	PON2	VB01_Mrt3S
dMN5VB01P3	dMN5VB01P3	no unit	1.00	PON3	VB01_Mrt3S
dMP5VB01P1	dMP5VB01P1	no unit	1.00	POP1	VB01_Mrt3S
dMP5VB01P2	dMP5VB01P2	no unit	1.00	POP2	VB01_Mrt3S
dMP5VB01P3	dMP5VB01P3	no unit	1.00	POP3	VB01_Mrt3S
dMS5VB01P1	dMS5VB01P1	no unit	1.00	POS1	VB01_Mrt3S
dMS5VB01P2	dMS5VB01P2	no unit	1.00	POS2	VB01_Mrt3S
dMS5VB01P3	dMS5VB01P3	no unit	1.00	POS3	VB01_Mrt3S
dMC4VB01P5	dMC4VB01P5	no unit	1.00	POC5	VB01_Mrt3S
dMN4VB01P5	dMN4VB01P5	no unit	1.00	PON5	VB01_Mrt3S
dMP4VB01P5	dMP4VB01P5	no unit	1.00	POP5	VB01_Mrt3S
dMS4VB01P5	dMS4VB01P5	no unit	1.00	POS5	VB01_Mrt3S
dN1VB01upy	uptake VB01 through roots N pool 1	gN/m ³ /d	-1.00	NH4	VB01_Upt3D
dN2VB01upy	uptake VB01 through roots N pool 2	gN/m ³ /d	-1.00	NO3	VB01_Upt3D
dP1VB01upy	uptake VB01 through roots P pool 1	gP/m ³ /d	-1.00	AAP	VB01_Upt3D
dP2VB01upy	uptake VB01 through roots P pool 2	gP/m ³ /d	-1.00	PO4	VB01_Upt3D
dS1VB01upy	uptake VB01 through roots S pool 1	gS/m ³ /d	-1.00	SO4	VB01_Upt3D
dS2VB01upy	uptake VB01 through roots S pool 2	gS/m ³ /d	-1.00	SUD	VB01_Upt3D
dVB02	growth rate vegetation biomass cohort 2	gC/m ³ /d	1.00	VB02	VBGrowth02
dMrtC1VB02	mortality stem VB02	gC/m ³ /d	-1.00	VB02	VB Mort02
dMrtC3VB02	mortality branch VB02	gC/m ³ /d	-1.00	VB02	VB Mort02
dMrtC4VB02	mortality root VB02	gC/m ³ /d	-1.00	VB02	VB Mort02
dMrtC2VB02	mortality foliage VB02	gC/m ³ /d	-1.00	VB02	VB Mort02
dMrtC5VB02	mortality fineroot VB02	gC/m ³ /d	-1.00	VB02	VB Mort02
dMC2VB02P1	dMC2VB02P1	no unit	1.00	POC1	VB02_Mrt3W
dMC2VB02P2	dMC2VB02P2	no unit	1.00	POC2	VB02_Mrt3W
dMC2VB02P3	dMC2VB02P3	no unit	1.00	POC3	VB02_Mrt3W
dMN2VB02P1	dMN2VB02P1	no unit	1.00	PON1	VB02_Mrt3W
dMN2VB02P2	dMN2VB02P2	no unit	1.00	PON2	VB02_Mrt3W
dMN2VB02P3	dMN2VB02P3	no unit	1.00	PON3	VB02_Mrt3W
dMP2VB02P1	dMP2VB02P1	no unit	1.00	POP1	VB02_Mrt3W
dMP2VB02P2	dMP2VB02P2	no unit	1.00	POP2	VB02_Mrt3W
dMP2VB02P3	dMP2VB02P3	no unit	1.00	POP3	VB02_Mrt3W
dMS2VB02P1	dMS2VB02P1	no unit	1.00	POS1	VB02_Mrt3W
dMS2VB02P2	dMS2VB02P2	no unit	1.00	POS2	VB02_Mrt3W
dMS2VB02P3	dMS2VB02P3	no unit	1.00	POS3	VB02_Mrt3W
dMC1VB02P5	dMC1VB02P5	no unit	1.00	POC5	VB02_Mrt3W
dMC3VB02P5	dMC3VB02P5	no unit	1.00	POC5	VB02_Mrt3W
dMN1VB02P5	dMN1VB02P5	no unit	1.00	PON5	VB02_Mrt3W
dMN3VB02P5	dMN3VB02P5	no unit	1.00	PON5	VB02_Mrt3W
dMP1VB02P5	dMP1VB02P5	no unit	1.00	POP5	VB02_Mrt3W
dMP3VB02P5	dMP3VB02P5	no unit	1.00	POP5	VB02_Mrt3W
dMS1VB02P5	dMS1VB02P5	no unit	1.00	POS5	VB02_Mrt3W
dMS3VB02P5	dMS3VB02P5	no unit	1.00	POS5	VB02_Mrt3W
dMC5VB02P1	dMC5VB02P1	no unit	1.00	POC1	VB02_Mrt3S
dMC5VB02P2	dMC5VB02P2	no unit	1.00	POC2	VB02_Mrt3S
dMC5VB02P3	dMC5VB02P3	no unit	1.00	POC3	VB02_Mrt3S
dMN5VB02P1	dMN5VB02P1	no unit	1.00	PON1	VB02_Mrt3S
dMN5VB02P2	dMN5VB02P2	no unit	1.00	PON2	VB02_Mrt3S
dMN5VB02P3	dMN5VB02P3	no unit	1.00	PON3	VB02_Mrt3S
dMP5VB02P1	dMP5VB02P1	no unit	1.00	POP1	VB02_Mrt3S
dMP5VB02P2	dMP5VB02P2	no unit	1.00	POP2	VB02_Mrt3S
dMP5VB02P3	dMP5VB02P3	no unit	1.00	POP3	VB02_Mrt3S
dMS5VB02P1	dMS5VB02P1	no unit	1.00	POS1	VB02_Mrt3S
dMS5VB02P2	dMS5VB02P2	no unit	1.00	POS2	VB02_Mrt3S
dMS5VB02P3	dMS5VB02P3	no unit	1.00	POS3	VB02_Mrt3S
dMC4VB02P5	dMC4VB02P5	no unit	1.00	POC5	VB02_Mrt3S
dMN4VB02P5	dMN4VB02P5	no unit	1.00	PON5	VB02_Mrt3S
dMP4VB02P5	dMP4VB02P5	no unit	1.00	POP5	VB02_Mrt3S
dMS4VB02P5	dMS4VB02P5	no unit	1.00	POS5	VB02_Mrt3S
dN1VB02upy	uptake VB02 through roots N pool 1	gN/m ³ /d	-1.00	NH4	VB02_Upt3D
dN2VB02upy	uptake VB02 through roots N pool 2	gN/m ³ /d	-1.00	NO3	VB02_Upt3D
dP1VB02upy	uptake VB02 through roots P pool 1	gP/m ³ /d	-1.00	AAP	VB02_Upt3D
dP2VB02upy	uptake VB02 through roots P pool 2	gP/m ³ /d	-1.00	PO4	VB02_Upt3D

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dS1VB02upy	uptake VB02 through roots S pool 1	gS/m ³ /d	-1.00	SO4	VB02_Upt3D
dS2VB02upy	uptake VB02 through roots S pool 2	gS/m ³ /d	-1.00	SUD	VB02_Upt3D
dVB03	growth rate vegetation biomass cohort 3	gC/m ³ /d	1.00	VB03	VBGrowth03
dMrtC1VB03	mortality stem VB03	gC/m ³ /d	-1.00	VB03	VBMMort03
dMrtC3VB03	mortality branch VB03	gC/m ³ /d	-1.00	VB03	VBMMort03
dMrtC4VB03	mortality root VB03	gC/m ³ /d	-1.00	VB03	VBMMort03
dMrtC2VB03	mortality foliage VB03	gC/m ³ /d	-1.00	VB03	VBMMort03
dMrtC5VB03	mortality fineroot VB03	gC/m ³ /d	-1.00	VB03	VBMMort03
dMC2VB03P1	dMC2VB03P1	no unit	1.00	POC1	VB03_Mrt3W
dMC2VB03P2	dMC2VB03P2	no unit	1.00	POC2	VB03_Mrt3W
dMC2VB03P3	dMC2VB03P3	no unit	1.00	POC3	VB03_Mrt3W
dMN2VB03P1	dMN2VB03P1	no unit	1.00	PON1	VB03_Mrt3W
dMN2VB03P2	dMN2VB03P2	no unit	1.00	PON2	VB03_Mrt3W
dMN2VB03P3	dMN2VB03P3	no unit	1.00	PON3	VB03_Mrt3W
dMP2VB03P1	dMP2VB03P1	no unit	1.00	POP1	VB03_Mrt3W
dMP2VB03P2	dMP2VB03P2	no unit	1.00	POP2	VB03_Mrt3W
dMP2VB03P3	dMP2VB03P3	no unit	1.00	POP3	VB03_Mrt3W
dMS2VB03P1	dMS2VB03P1	no unit	1.00	POS1	VB03_Mrt3W
dMS2VB03P2	dMS2VB03P2	no unit	1.00	POS2	VB03_Mrt3W
dMS2VB03P3	dMS2VB03P3	no unit	1.00	POS3	VB03_Mrt3W
dMC1VB03P5	dMC1VB03P5	no unit	1.00	POC5	VB03_Mrt3W
dMC3VB03P5	dMC3VB03P5	no unit	1.00	POC5	VB03_Mrt3W
dMN1VB03P5	dMN1VB03P5	no unit	1.00	PON5	VB03_Mrt3W
dMN3VB03P5	dMN3VB03P5	no unit	1.00	PON5	VB03_Mrt3W
dMP1VB03P5	dMP1VB03P5	no unit	1.00	POP5	VB03_Mrt3W
dMP3VB03P5	dMP3VB03P5	no unit	1.00	POP5	VB03_Mrt3W
dMS1VB03P5	dMS1VB03P5	no unit	1.00	POS5	VB03_Mrt3W
dMS3VB03P5	dMS3VB03P5	no unit	1.00	POS5	VB03_Mrt3W
dMC5VB03P1	dMC5VB03P1	no unit	1.00	POC1	VB03_Mrt3S
dMC5VB03P2	dMC5VB03P2	no unit	1.00	POC2	VB03_Mrt3S
dMC5VB03P3	dMC5VB03P3	no unit	1.00	POC3	VB03_Mrt3S
dMN5VB03P1	dMN5VB03P1	no unit	1.00	PON1	VB03_Mrt3S
dMN5VB03P2	dMN5VB03P2	no unit	1.00	PON2	VB03_Mrt3S
dMN5VB03P3	dMN5VB03P3	no unit	1.00	PON3	VB03_Mrt3S
dMP5VB03P1	dMP5VB03P1	no unit	1.00	POP1	VB03_Mrt3S
dMP5VB03P2	dMP5VB03P2	no unit	1.00	POP2	VB03_Mrt3S
dMP5VB03P3	dMP5VB03P3	no unit	1.00	POP3	VB03_Mrt3S
dMS5VB03P1	dMS5VB03P1	no unit	1.00	POS1	VB03_Mrt3S
dMS5VB03P2	dMS5VB03P2	no unit	1.00	POS2	VB03_Mrt3S
dMS5VB03P3	dMS5VB03P3	no unit	1.00	POS3	VB03_Mrt3S
dMC4VB03P5	dMC4VB03P5	no unit	1.00	POC5	VB03_Mrt3S
dMN4VB03P5	dMN4VB03P5	no unit	1.00	PON5	VB03_Mrt3S
dMP4VB03P5	dMP4VB03P5	no unit	1.00	POP5	VB03_Mrt3S
dMS4VB03P5	dMS4VB03P5	no unit	1.00	POS5	VB03_Mrt3S
dN1VB03upy	uptake VB03 through roots N pool 1	gN/m ³ /d	-1.00	NH4	VB03_Upt3D
dN2VB03upy	uptake VB03 through roots N pool 2	gN/m ³ /d	-1.00	NO3	VB03_Upt3D
dP1VB03upy	uptake VB03 through roots P pool 1	gP/m ³ /d	-1.00	AAP	VB03_Upt3D
dP2VB03upy	uptake VB03 through roots P pool 2	gP/m ³ /d	-1.00	PO4	VB03_Upt3D
dS1VB03upy	uptake VB03 through roots S pool 1	gS/m ³ /d	-1.00	SO4	VB03_Upt3D
dS2VB03upy	uptake VB03 through roots S pool 2	gS/m ³ /d	-1.00	SUD	VB03_Upt3D
dVB04	growth rate vegetation biomass cohort 4	gC/m ³ /d	1.00	VB04	VBGrowth04
dMrtC1VB04	mortality stem VB04	gC/m ³ /d	-1.00	VB04	VBMMort04
dMrtC3VB04	mortality branch VB04	gC/m ³ /d	-1.00	VB04	VBMMort04
dMrtC4VB04	mortality root VB04	gC/m ³ /d	-1.00	VB04	VBMMort04
dMrtC2VB04	mortality foliage VB04	gC/m ³ /d	-1.00	VB04	VBMMort04
dMrtC5VB04	mortality fineroot VB04	gC/m ³ /d	-1.00	VB04	VBMMort04
dMC2VB04P1	dMC2VB04P1	no unit	1.00	POC1	VB04_Mrt3W
dMC2VB04P2	dMC2VB04P2	no unit	1.00	POC2	VB04_Mrt3W
dMC2VB04P3	dMC2VB04P3	no unit	1.00	POC3	VB04_Mrt3W
dMN2VB04P1	dMN2VB04P1	no unit	1.00	PON1	VB04_Mrt3W
dMN2VB04P2	dMN2VB04P2	no unit	1.00	PON2	VB04_Mrt3W
dMN2VB04P3	dMN2VB04P3	no unit	1.00	PON3	VB04_Mrt3W
dMP2VB04P1	dMP2VB04P1	no unit	1.00	POP1	VB04_Mrt3W
dMP2VB04P2	dMP2VB04P2	no unit	1.00	POP2	VB04_Mrt3W
dMP2VB04P3	dMP2VB04P3	no unit	1.00	POP3	VB04_Mrt3W
dMS2VB04P1	dMS2VB04P1	no unit	1.00	POS1	VB04_Mrt3W
dMS2VB04P2	dMS2VB04P2	no unit	1.00	POS2	VB04_Mrt3W
dMS2VB04P3	dMS2VB04P3	no unit	1.00	POS3	VB04_Mrt3W

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dMC1VB04P5	dMC1VB04P5	no unit	1.00	POC5	VB04_Mrt3W
dMC3VB04P5	dMC3VB04P5	no unit	1.00	POC5	VB04_Mrt3W
dMN1VB04P5	dMN1VB04P5	no unit	1.00	PON5	VB04_Mrt3W
dMN3VB04P5	dMN3VB04P5	no unit	1.00	PON5	VB04_Mrt3W
dMP1VB04P5	dMP1VB04P5	no unit	1.00	POP5	VB04_Mrt3W
dMP3VB04P5	dMP3VB04P5	no unit	1.00	POP5	VB04_Mrt3W
dMS1VB04P5	dMS1VB04P5	no unit	1.00	POS5	VB04_Mrt3W
dMS3VB04P5	dMS3VB04P5	no unit	1.00	POS5	VB04_Mrt3W
dMC5VB04P1	dMC5VB04P1	no unit	1.00	POC1	VB04_Mrt3S
dMC5VB04P2	dMC5VB04P2	no unit	1.00	POC2	VB04_Mrt3S
dMC5VB04P3	dMC5VB04P3	no unit	1.00	POC3	VB04_Mrt3S
dMN5VB04P1	dMN5VB04P1	no unit	1.00	PON1	VB04_Mrt3S
dMN5VB04P2	dMN5VB04P2	no unit	1.00	PON2	VB04_Mrt3S
dMN5VB04P3	dMN5VB04P3	no unit	1.00	PON3	VB04_Mrt3S
dMP5VB04P1	dMP5VB04P1	no unit	1.00	POP1	VB04_Mrt3S
dMP5VB04P2	dMP5VB04P2	no unit	1.00	POP2	VB04_Mrt3S
dMP5VB04P3	dMP5VB04P3	no unit	1.00	POP3	VB04_Mrt3S
dMS5VB04P1	dMS5VB04P1	no unit	1.00	POS1	VB04_Mrt3S
dMS5VB04P2	dMS5VB04P2	no unit	1.00	POS2	VB04_Mrt3S
dMS5VB04P3	dMS5VB04P3	no unit	1.00	POS3	VB04_Mrt3S
dMC4VB04P5	dMC4VB04P5	no unit	1.00	POC5	VB04_Mrt3S
dMN4VB04P5	dMN4VB04P5	no unit	1.00	PON5	VB04_Mrt3S
dMP4VB04P5	dMP4VB04P5	no unit	1.00	POP5	VB04_Mrt3S
dMS4VB04P5	dMS4VB04P5	no unit	1.00	POS5	VB04_Mrt3S
dN1VB04upy	uptake VB04 through roots N pool 1	gN/m ³ /d	-1.00	NH4	VB04_Upt3D
dN2VB04upy	uptake VB04 through roots N pool 2	gN/m ³ /d	-1.00	NO3	VB04_Upt3D
dP1VB04upy	uptake VB04 through roots P pool 1	gP/m ³ /d	-1.00	AAP	VB04_Upt3D
dP2VB04upy	uptake VB04 through roots P pool 2	gP/m ³ /d	-1.00	PO4	VB04_Upt3D
dS1VB04upy	uptake VB04 through roots S pool 1	gS/m ³ /d	-1.00	SO4	VB04_Upt3D
dS2VB04upy	uptake VB04 through roots S pool 2	gS/m ³ /d	-1.00	SUD	VB04_Upt3D
dVB05	growth rate vegetation biomass cohort 5	gC/m ³ /d	1.00	VB05	VBGrowth05
dMrtC1VB05	mortality stem VB05	gC/m ³ /d	-1.00	VB05	VBMMort05
dMrtC3VB05	mortality branch VB05	gC/m ³ /d	-1.00	VB05	VBMMort05
dMrtC4VB05	mortality root VB05	gC/m ³ /d	-1.00	VB05	VBMMort05
dMrtC2VB05	mortality foliage VB05	gC/m ³ /d	-1.00	VB05	VBMMort05
dMrtC5VB05	mortality fineroot VB05	gC/m ³ /d	-1.00	VB05	VBMMort05
dMC2VB05P1	dMC2VB05P1	no unit	1.00	POC1	VB05_Mrt3W
dMC2VB05P2	dMC2VB05P2	no unit	1.00	POC2	VB05_Mrt3W
dMC2VB05P3	dMC2VB05P3	no unit	1.00	POC3	VB05_Mrt3W
dMN2VB05P1	dMN2VB05P1	no unit	1.00	PON1	VB05_Mrt3W
dMN2VB05P2	dMN2VB05P2	no unit	1.00	PON2	VB05_Mrt3W
dMN2VB05P3	dMN2VB05P3	no unit	1.00	PON3	VB05_Mrt3W
dMP2VB05P1	dMP2VB05P1	no unit	1.00	POP1	VB05_Mrt3W
dMP2VB05P2	dMP2VB05P2	no unit	1.00	POP2	VB05_Mrt3W
dMP2VB05P3	dMP2VB05P3	no unit	1.00	POP3	VB05_Mrt3W
dMS2VB05P1	dMS2VB05P1	no unit	1.00	POS1	VB05_Mrt3W
dMS2VB05P2	dMS2VB05P2	no unit	1.00	POS2	VB05_Mrt3W
dMS2VB05P3	dMS2VB05P3	no unit	1.00	POS3	VB05_Mrt3W
dMC1VB05P5	dMC1VB05P5	no unit	1.00	POC5	VB05_Mrt3W
dMC3VB05P5	dMC3VB05P5	no unit	1.00	POC5	VB05_Mrt3W
dMN1VB05P5	dMN1VB05P5	no unit	1.00	PON5	VB05_Mrt3W
dMN3VB05P5	dMN3VB05P5	no unit	1.00	PON5	VB05_Mrt3W
dMP1VB05P5	dMP1VB05P5	no unit	1.00	POP5	VB05_Mrt3W
dMP3VB05P5	dMP3VB05P5	no unit	1.00	POP5	VB05_Mrt3W
dMS1VB05P5	dMS1VB05P5	no unit	1.00	POS5	VB05_Mrt3W
dMS3VB05P5	dMS3VB05P5	no unit	1.00	POS5	VB05_Mrt3W
dMC5VB05P1	dMC5VB05P1	no unit	1.00	POC1	VB05_Mrt3S
dMC5VB05P2	dMC5VB05P2	no unit	1.00	POC2	VB05_Mrt3S
dMC5VB05P3	dMC5VB05P3	no unit	1.00	POC3	VB05_Mrt3S
dMN5VB05P1	dMN5VB05P1	no unit	1.00	PON1	VB05_Mrt3S
dMN5VB05P2	dMN5VB05P2	no unit	1.00	PON2	VB05_Mrt3S
dMN5VB05P3	dMN5VB05P3	no unit	1.00	PON3	VB05_Mrt3S
dMP5VB05P1	dMP5VB05P1	no unit	1.00	POP1	VB05_Mrt3S
dMP5VB05P2	dMP5VB05P2	no unit	1.00	POP2	VB05_Mrt3S
dMP5VB05P3	dMP5VB05P3	no unit	1.00	POP3	VB05_Mrt3S
dMS5VB05P1	dMS5VB05P1	no unit	1.00	POS1	VB05_Mrt3S
dMS5VB05P2	dMS5VB05P2	no unit	1.00	POS2	VB05_Mrt3S
dMS5VB05P3	dMS5VB05P3	no unit	1.00	POS3	VB05_Mrt3S
dMC4VB05P5	dMC4VB05P5	no unit	1.00	POC5	VB05_Mrt3S

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dMN4VB05P5	dMN4VB05P5	no unit	1.00	PON5	VB05_Mrt3S
dMP4VB05P5	dMP4VB05P5	no unit	1.00	POP5	VB05_Mrt3S
dMS4VB05P5	dMS4VB05P5	no unit	1.00	POS5	VB05_Mrt3S
dN1VB05upy	uptake VB05 through roots N pool 1	gN/m ³ /d	-1.00	NH4	VB05_Upt3D
dN2VB05upy	uptake VB05 through roots N pool 2	gN/m ³ /d	-1.00	NO3	VB05_Upt3D
dP1VB05upy	uptake VB05 through roots P pool 1	gP/m ³ /d	-1.00	AAP	VB05_Upt3D
dP2VB05upy	uptake VB05 through roots P pool 2	gP/m ³ /d	-1.00	PO4	VB05_Upt3D
dS1VB05upy	uptake VB05 through roots S pool 1	gS/m ³ /d	-1.00	SO4	VB05_Upt3D
dS2VB05upy	uptake VB05 through roots S pool 2	gS/m ³ /d	-1.00	SUD	VB05_Upt3D
dVB06	growth rate vegetation biomass cohort 6	gC/m ³ /d	1.00	VB06	VBGrowth06
dMrtC1VB06	mortality stem VB06	gC/m ³ /d	-1.00	VB06	VB Mort06
dMrtC3VB06	mortality branch VB06	gC/m ³ /d	-1.00	VB06	VB Mort06
dMrtC4VB06	mortality root VB06	gC/m ³ /d	-1.00	VB06	VB Mort06
dMrtC2VB06	mortality foliage VB06	gC/m ³ /d	-1.00	VB06	VB Mort06
dMrtC5VB06	mortality fineroot VB06	gC/m ³ /d	-1.00	VB06	VB Mort06
dMC2VB06P1	dMC2VB06P1	no unit	1.00	POC1	VB06_Mrt3W
dMC2VB06P2	dMC2VB06P2	no unit	1.00	POC2	VB06_Mrt3W
dMC2VB06P3	dMC2VB06P3	no unit	1.00	POC3	VB06_Mrt3W
dMN2VB06P1	dMN2VB06P1	no unit	1.00	PON1	VB06_Mrt3W
dMN2VB06P2	dMN2VB06P2	no unit	1.00	PON2	VB06_Mrt3W
dMN2VB06P3	dMN2VB06P3	no unit	1.00	PON3	VB06_Mrt3W
dMP2VB06P1	dMP2VB06P1	no unit	1.00	POP1	VB06_Mrt3W
dMP2VB06P2	dMP2VB06P2	no unit	1.00	POP2	VB06_Mrt3W
dMP2VB06P3	dMP2VB06P3	no unit	1.00	POP3	VB06_Mrt3W
dMS2VB06P1	dMS2VB06P1	no unit	1.00	POS1	VB06_Mrt3W
dMS2VB06P2	dMS2VB06P2	no unit	1.00	POS2	VB06_Mrt3W
dMS2VB06P3	dMS2VB06P3	no unit	1.00	POS3	VB06_Mrt3W
dMC1VB06P5	dMC1VB06P5	no unit	1.00	POC5	VB06_Mrt3W
dMC3VB06P5	dMC3VB06P5	no unit	1.00	POC5	VB06_Mrt3W
dMN1VB06P5	dMN1VB06P5	no unit	1.00	PON5	VB06_Mrt3W
dMN3VB06P5	dMN3VB06P5	no unit	1.00	PON5	VB06_Mrt3W
dMP1VB06P5	dMP1VB06P5	no unit	1.00	POP5	VB06_Mrt3W
dMP3VB06P5	dMP3VB06P5	no unit	1.00	POP5	VB06_Mrt3W
dMS1VB06P5	dMS1VB06P5	no unit	1.00	POS5	VB06_Mrt3W
dMS3VB06P5	dMS3VB06P5	no unit	1.00	POS5	VB06_Mrt3W
dMC5VB06P1	dMC5VB06P1	no unit	1.00	POC1	VB06_Mrt3S
dMC5VB06P2	dMC5VB06P2	no unit	1.00	POC2	VB06_Mrt3S
dMC5VB06P3	dMC5VB06P3	no unit	1.00	POC3	VB06_Mrt3S
dMN5VB06P1	dMN5VB06P1	no unit	1.00	PON1	VB06_Mrt3S
dMN5VB06P2	dMN5VB06P2	no unit	1.00	PON2	VB06_Mrt3S
dMN5VB06P3	dMN5VB06P3	no unit	1.00	PON3	VB06_Mrt3S
dMP5VB06P1	dMP5VB06P1	no unit	1.00	POP1	VB06_Mrt3S
dMP5VB06P2	dMP5VB06P2	no unit	1.00	POP2	VB06_Mrt3S
dMP5VB06P3	dMP5VB06P3	no unit	1.00	POP3	VB06_Mrt3S
dMS5VB06P1	dMS5VB06P1	no unit	1.00	POS1	VB06_Mrt3S
dMS5VB06P2	dMS5VB06P2	no unit	1.00	POS2	VB06_Mrt3S
dMS5VB06P3	dMS5VB06P3	no unit	1.00	POS3	VB06_Mrt3S
dMC4VB06P5	dMC4VB06P5	no unit	1.00	POC5	VB06_Mrt3S
dMN4VB06P5	dMN4VB06P5	no unit	1.00	PON5	VB06_Mrt3S
dMP4VB06P5	dMP4VB06P5	no unit	1.00	POP5	VB06_Mrt3S
dMS4VB06P5	dMS4VB06P5	no unit	1.00	POS5	VB06_Mrt3S
dN1VB06upy	uptake VB06 through roots N pool 1	gN/m ³ /d	-1.00	NH4	VB06_Upt3D
dN2VB06upy	uptake VB06 through roots N pool 2	gN/m ³ /d	-1.00	NO3	VB06_Upt3D
dP1VB06upy	uptake VB06 through roots P pool 1	gP/m ³ /d	-1.00	AAP	VB06_Upt3D
dP2VB06upy	uptake VB06 through roots P pool 2	gP/m ³ /d	-1.00	PO4	VB06_Upt3D
dS1VB06upy	uptake VB06 through roots S pool 1	gS/m ³ /d	-1.00	SO4	VB06_Upt3D
dS2VB06upy	uptake VB06 through roots S pool 2	gS/m ³ /d	-1.00	SUD	VB06_Upt3D
dVB07	growth rate vegetation biomass cohort 7	gC/m ³ /d	1.00	VB07	VBGrowth07
dMrtC1VB07	mortality stem VB07	gC/m ³ /d	-1.00	VB07	VB Mort07
dMrtC3VB07	mortality branch VB07	gC/m ³ /d	-1.00	VB07	VB Mort07
dMrtC4VB07	mortality root VB07	gC/m ³ /d	-1.00	VB07	VB Mort07
dMrtC2VB07	mortality foliage VB07	gC/m ³ /d	-1.00	VB07	VB Mort07
dMrtC5VB07	mortality fineroot VB07	gC/m ³ /d	-1.00	VB07	VB Mort07
dMC2VB07P1	dMC2VB07P1	no unit	1.00	POC1	VB07_Mrt3W
dMC2VB07P2	dMC2VB07P2	no unit	1.00	POC2	VB07_Mrt3W
dMC2VB07P3	dMC2VB07P3	no unit	1.00	POC3	VB07_Mrt3W
dMN2VB07P1	dMN2VB07P1	no unit	1.00	PON1	VB07_Mrt3W
dMN2VB07P2	dMN2VB07P2	no unit	1.00	PON2	VB07_Mrt3W

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dMN2VB07P3	dMN2VB07P3	no unit	1.00	PON3	VB07_Mrt3W
dMP2VB07P1	dMP2VB07P1	no unit	1.00	POP1	VB07_Mrt3W
dMP2VB07P2	dMP2VB07P2	no unit	1.00	POP2	VB07_Mrt3W
dMP2VB07P3	dMP2VB07P3	no unit	1.00	POP3	VB07_Mrt3W
dMS2VB07P1	dMS2VB07P1	no unit	1.00	POS1	VB07_Mrt3W
dMS2VB07P2	dMS2VB07P2	no unit	1.00	POS2	VB07_Mrt3W
dMS2VB07P3	dMS2VB07P3	no unit	1.00	POS3	VB07_Mrt3W
dMC1VB07P5	dMC1VB07P5	no unit	1.00	POC5	VB07_Mrt3W
dMC3VB07P5	dMC3VB07P5	no unit	1.00	POC5	VB07_Mrt3W
dMN1VB07P5	dMN1VB07P5	no unit	1.00	PON5	VB07_Mrt3W
dMN3VB07P5	dMN3VB07P5	no unit	1.00	PON5	VB07_Mrt3W
dMP1VB07P5	dMP1VB07P5	no unit	1.00	POP5	VB07_Mrt3W
dMP3VB07P5	dMP3VB07P5	no unit	1.00	POP5	VB07_Mrt3W
dMS1VB07P5	dMS1VB07P5	no unit	1.00	POS5	VB07_Mrt3W
dMS3VB07P5	dMS3VB07P5	no unit	1.00	POS5	VB07_Mrt3W
dMC5VB07P1	dMC5VB07P1	no unit	1.00	POC1	VB07_Mrt3S
dMC5VB07P2	dMC5VB07P2	no unit	1.00	POC2	VB07_Mrt3S
dMC5VB07P3	dMC5VB07P3	no unit	1.00	POC3	VB07_Mrt3S
dMN5VB07P1	dMN5VB07P1	no unit	1.00	PON1	VB07_Mrt3S
dMN5VB07P2	dMN5VB07P2	no unit	1.00	PON2	VB07_Mrt3S
dMN5VB07P3	dMN5VB07P3	no unit	1.00	PON3	VB07_Mrt3S
dMP5VB07P1	dMP5VB07P1	no unit	1.00	POP1	VB07_Mrt3S
dMP5VB07P2	dMP5VB07P2	no unit	1.00	POP2	VB07_Mrt3S
dMP5VB07P3	dMP5VB07P3	no unit	1.00	POP3	VB07_Mrt3S
dMS5VB07P1	dMS5VB07P1	no unit	1.00	POS1	VB07_Mrt3S
dMS5VB07P2	dMS5VB07P2	no unit	1.00	POS2	VB07_Mrt3S
dMS5VB07P3	dMS5VB07P3	no unit	1.00	POS3	VB07_Mrt3S
dMC4VB07P5	dMC4VB07P5	no unit	1.00	POC5	VB07_Mrt3S
dMN4VB07P5	dMN4VB07P5	no unit	1.00	PON5	VB07_Mrt3S
dMP4VB07P5	dMP4VB07P5	no unit	1.00	POP5	VB07_Mrt3S
dMS4VB07P5	dMS4VB07P5	no unit	1.00	POS5	VB07_Mrt3S
dN1VB07upy	uptake VB07 through roots N pool 1	gN/m ³ /d	-1.00	NH4	VB07_Upt3D
dN2VB07upy	uptake VB07 through roots N pool 2	gN/m ³ /d	-1.00	NO3	VB07_Upt3D
dP1VB07upy	uptake VB07 through roots P pool 1	gP/m ³ /d	-1.00	AAP	VB07_Upt3D
dP2VB07upy	uptake VB07 through roots P pool 2	gP/m ³ /d	-1.00	PO4	VB07_Upt3D
dS1VB07upy	uptake VB07 through roots S pool 1	gS/m ³ /d	-1.00	SO4	VB07_Upt3D
dS2VB07upy	uptake VB07 through roots S pool 2	gS/m ³ /d	-1.00	SUD	VB07_Upt3D
dVB08	growth rate vegetation biomass cohort 8	gC/m ³ /d	1.00	VB08	VBGrowth08
dMrtC1VB08	mortality stem VB08	gC/m ³ /d	-1.00	VB08	VBMMort08
dMrtC3VB08	mortality branch VB08	gC/m ³ /d	-1.00	VB08	VBMMort08
dMrtC4VB08	mortality root VB08	gC/m ³ /d	-1.00	VB08	VBMMort08
dMrtC2VB08	mortality foliage VB08	gC/m ³ /d	-1.00	VB08	VBMMort08
dMrtC5VB08	mortality fineroot VB08	gC/m ³ /d	-1.00	VB08	VBMMort08
dMC2VB08P1	dMC2VB08P1	no unit	1.00	POC1	VB08_Mrt3W
dMC2VB08P2	dMC2VB08P2	no unit	1.00	POC2	VB08_Mrt3W
dMC2VB08P3	dMC2VB08P3	no unit	1.00	POC3	VB08_Mrt3W
dMN2VB08P1	dMN2VB08P1	no unit	1.00	PON1	VB08_Mrt3W
dMN2VB08P2	dMN2VB08P2	no unit	1.00	PON2	VB08_Mrt3W
dMN2VB08P3	dMN2VB08P3	no unit	1.00	PON3	VB08_Mrt3W
dMP2VB08P1	dMP2VB08P1	no unit	1.00	POP1	VB08_Mrt3W
dMP2VB08P2	dMP2VB08P2	no unit	1.00	POP2	VB08_Mrt3W
dMP2VB08P3	dMP2VB08P3	no unit	1.00	POP3	VB08_Mrt3W
dMS2VB08P1	dMS2VB08P1	no unit	1.00	POS1	VB08_Mrt3W
dMS2VB08P2	dMS2VB08P2	no unit	1.00	POS2	VB08_Mrt3W
dMS2VB08P3	dMS2VB08P3	no unit	1.00	POS3	VB08_Mrt3W
dMC1VB08P5	dMC1VB08P5	no unit	1.00	POC5	VB08_Mrt3W
dMC3VB08P5	dMC3VB08P5	no unit	1.00	POC5	VB08_Mrt3W
dMN1VB08P5	dMN1VB08P5	no unit	1.00	PON5	VB08_Mrt3W
dMN3VB08P5	dMN3VB08P5	no unit	1.00	PON5	VB08_Mrt3W
dMP1VB08P5	dMP1VB08P5	no unit	1.00	POP5	VB08_Mrt3W
dMP3VB08P5	dMP3VB08P5	no unit	1.00	POP5	VB08_Mrt3W
dMS1VB08P5	dMS1VB08P5	no unit	1.00	POS5	VB08_Mrt3W
dMS3VB08P5	dMS3VB08P5	no unit	1.00	POS5	VB08_Mrt3W
dMC5VB08P1	dMC5VB08P1	no unit	1.00	POC1	VB08_Mrt3S
dMC5VB08P2	dMC5VB08P2	no unit	1.00	POC2	VB08_Mrt3S
dMC5VB08P3	dMC5VB08P3	no unit	1.00	POC3	VB08_Mrt3S
dMN5VB08P1	dMN5VB08P1	no unit	1.00	PON1	VB08_Mrt3S
dMN5VB08P2	dMN5VB08P2	no unit	1.00	PON2	VB08_Mrt3S
dMN5VB08P3	dMN5VB08P3	no unit	1.00	PON3	VB08_Mrt3S

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dMP5VB08P1	dMP5VB08P1	no unit	1.00	POP1	VB08_Mrt3S
dMP5VB08P2	dMP5VB08P2	no unit	1.00	POP2	VB08_Mrt3S
dMP5VB08P3	dMP5VB08P3	no unit	1.00	POP3	VB08_Mrt3S
dMS5VB08P1	dMS5VB08P1	no unit	1.00	POS1	VB08_Mrt3S
dMS5VB08P2	dMS5VB08P2	no unit	1.00	POS2	VB08_Mrt3S
dMS5VB08P3	dMS5VB08P3	no unit	1.00	POS3	VB08_Mrt3S
dMC4VB08P5	dMC4VB08P5	no unit	1.00	POC5	VB08_Mrt3S
dMN4VB08P5	dMN4VB08P5	no unit	1.00	PON5	VB08_Mrt3S
dMP4VB08P5	dMP4VB08P5	no unit	1.00	POP5	VB08_Mrt3S
dMS4VB08P5	dMS4VB08P5	no unit	1.00	POS5	VB08_Mrt3S
dN1VB08upy	uptake VB08 through roots N pool 1	gN/m ³ /d	-1.00	NH4	VB08_Upt3D
dN2VB08upy	uptake VB08 through roots N pool 2	gN/m ³ /d	-1.00	NO3	VB08_Upt3D
dP1VB08upy	uptake VB08 through roots P pool 1	gP/m ³ /d	-1.00	AAP	VB08_Upt3D
dP2VB08upy	uptake VB08 through roots P pool 2	gP/m ³ /d	-1.00	PO4	VB08_Upt3D
dS1VB08upy	uptake VB08 through roots S pool 1	gS/m ³ /d	-1.00	SO4	VB08_Upt3D
dS2VB08upy	uptake VB08 through roots S pool 2	gS/m ³ /d	-1.00	SUD	VB08_Upt3D
dVB09	growth rate vegetation biomass cohort 3	gC/m ³ /d	1.00	VB09	VBGrowth09
dMrtC1VB09	mortality stem VB09	gC/m ³ /d	-1.00	VB09	VB Mort09
dMrtC3VB09	mortality branch VB09	gC/m ³ /d	-1.00	VB09	VB Mort09
dMrtC4VB09	mortality root VB09	gC/m ³ /d	-1.00	VB09	VB Mort09
dMrtC2VB09	mortality foliage VB09	gC/m ³ /d	-1.00	VB09	VB Mort09
dMrtC5VB09	mortality fineroot VB09	gC/m ³ /d	-1.00	VB09	VB Mort09
dMC2VB09P1	dMC2VB09P1	no unit	1.00	POC1	VB09_Mrt3W
dMC2VB09P2	dMC2VB09P2	no unit	1.00	POC2	VB09_Mrt3W
dMC2VB09P3	dMC2VB09P3	no unit	1.00	POC3	VB09_Mrt3W
dMN2VB09P1	dMN2VB09P1	no unit	1.00	PON1	VB09_Mrt3W
dMN2VB09P2	dMN2VB09P2	no unit	1.00	PON2	VB09_Mrt3W
dMN2VB09P3	dMN2VB09P3	no unit	1.00	PON3	VB09_Mrt3W
dMP2VB09P1	dMP2VB09P1	no unit	1.00	POP1	VB09_Mrt3W
dMP2VB09P2	dMP2VB09P2	no unit	1.00	POP2	VB09_Mrt3W
dMP2VB09P3	dMP2VB09P3	no unit	1.00	POP3	VB09_Mrt3W
dMS2VB09P1	dMS2VB09P1	no unit	1.00	POS1	VB09_Mrt3W
dMS2VB09P2	dMS2VB09P2	no unit	1.00	POS2	VB09_Mrt3W
dMS2VB09P3	dMS2VB09P3	no unit	1.00	POS3	VB09_Mrt3W
dMC1VB09P5	dMC1VB09P5	no unit	1.00	POC5	VB09_Mrt3W
dMC3VB09P5	dMC3VB09P5	no unit	1.00	POC5	VB09_Mrt3W
dMN1VB09P5	dMN1VB09P5	no unit	1.00	PON5	VB09_Mrt3W
dMN3VB09P5	dMN3VB09P5	no unit	1.00	PON5	VB09_Mrt3W
dMP1VB09P5	dMP1VB09P5	no unit	1.00	POP5	VB09_Mrt3W
dMP3VB09P5	dMP3VB09P5	no unit	1.00	POP5	VB09_Mrt3W
dMS1VB09P5	dMS1VB09P5	no unit	1.00	POS5	VB09_Mrt3W
dMS3VB09P5	dMS3VB09P5	no unit	1.00	POS5	VB09_Mrt3W
dMC5VB09P1	dMC5VB09P1	no unit	1.00	POC1	VB09_Mrt3S
dMC5VB09P2	dMC5VB09P2	no unit	1.00	POC2	VB09_Mrt3S
dMC5VB09P3	dMC5VB09P3	no unit	1.00	POC3	VB09_Mrt3S
dMN5VB09P1	dMN5VB09P1	no unit	1.00	PON1	VB09_Mrt3S
dMN5VB09P2	dMN5VB09P2	no unit	1.00	PON2	VB09_Mrt3S
dMN5VB09P3	dMN5VB09P3	no unit	1.00	PON3	VB09_Mrt3S
dMP5VB09P1	dMP5VB09P1	no unit	1.00	POP1	VB09_Mrt3S
dMP5VB09P2	dMP5VB09P2	no unit	1.00	POP2	VB09_Mrt3S
dMP5VB09P3	dMP5VB09P3	no unit	1.00	POP3	VB09_Mrt3S
dMS5VB09P1	dMS5VB09P1	no unit	1.00	POS1	VB09_Mrt3S
dMS5VB09P2	dMS5VB09P2	no unit	1.00	POS2	VB09_Mrt3S
dMS5VB09P3	dMS5VB09P3	no unit	1.00	POS3	VB09_Mrt3S
dMC4VB09P5	dMC4VB09P5	no unit	1.00	POC5	VB09_Mrt3S
dMN4VB09P5	dMN4VB09P5	no unit	1.00	PON5	VB09_Mrt3S
dMP4VB09P5	dMP4VB09P5	no unit	1.00	POP5	VB09_Mrt3S
dMS4VB09P5	dMS4VB09P5	no unit	1.00	POS5	VB09_Mrt3S
dN1VB09upy	uptake VB09 through roots N pool 1	gN/m ³ /d	-1.00	NH4	VB09_Upt3D
dN2VB09upy	uptake VB09 through roots N pool 2	gN/m ³ /d	-1.00	NO3	VB09_Upt3D
dP1VB09upy	uptake VB09 through roots P pool 1	gP/m ³ /d	-1.00	AAP	VB09_Upt3D
dP2VB09upy	uptake VB09 through roots P pool 2	gP/m ³ /d	-1.00	PO4	VB09_Upt3D
dS1VB09upy	uptake VB09 through roots S pool 1	gS/m ³ /d	-1.00	SO4	VB09_Upt3D
dS2VB09upy	uptake VB09 through roots S pool 2	gS/m ³ /d	-1.00	SUD	VB09_Upt3D
dGrowEM01	growth of EM01 species	gC/m ³ /d	1.00	EM01	MacroPhyt1
dGrowSM01	growth of SM01 species	gC/m ³ /d	1.00	SM01	MacroPhyt1
dDecayEM01	decay of EM01 species	gC/m ³ /d	-1.00	EM01	MacroPhyt1
dDecaySM01	decay of SM01 species	gC/m ³ /d	-1.00	SM01	MacroPhyt1
dCtEMtrRH01	translocation of C from EM to RH01	gC/m ³ /d	1.00	RH01	MacroPhyt1

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dCtSMtRH01	translocation of C from SM to RH01	gC/m ³ /d	1.00	RH01	MacroPhyt1
dCtRHtEM01	translocation of C from RH to EM01	gC/m ³ /d	-1.00	RH01	MacroPhyt1
dCtRHtSM01	translocation of C from RH to SM01	gC/m ³ /d	-1.00	RH01	MacroPhyt1
dNtEMtRH01	translocation of N from EM to RH01	gN/m ³ /d	1.00	NRH01	MacroPhyt1
dNtSMtRH01	translocation of N from SM to RH01	gN/m ³ /d	1.00	NRH01	MacroPhyt1
dNtRHtEM01	translocation of N from RH to EM01	gN/m ³ /d	-1.00	NRH01	MacroPhyt1
dNtRHtSM01	translocation of N from RH to SM01	gN/m ³ /d	-1.00	NRH01	MacroPhyt1
dPtEMtRH01	translocation of P from EM to RH01	gP/m ³ /d	1.00	PRH01	MacroPhyt1
dPtSMtRH01	translocation of P from SM to RH01	gP/m ³ /d	1.00	PRH01	MacroPhyt1
dPtRHtEM01	translocation of P from RH to EM01	gP/m ³ /d	-1.00	PRH01	MacroPhyt1
dPtRHtSM01	translocation of P from RH to SM01	gP/m ³ /d	-1.00	PRH01	MacroPhyt1
dNH4upEM01	NH4 uptake by EM01	gN/m ³ /d	-1.00	NH4	MacroPhyt1
dNO3upEM01	NO3 uptake by EM01	gN/m ³ /d	-1.00	NO3	MacroPhyt1
dPO4upEM01	PO4 uptake by EM01	gP/m ³ /d	-1.00	PO4	MacroPhyt1
dPrPOC1M01	POC1 production macrophyt 1	gC/m ³ /d	1.00	POC1	MacroPhyt1
dPrPOC2M01	POC2 production macrophyt 1	gC/m ³ /d	1.00	POC2	MacroPhyt1
dPrPOC3M01	POC3 production macrophyt 1	gC/m ³ /d	1.00	POC3	MacroPhyt1
dPrPON1M01	PON1 production macrophyt 1	gN/m ³ /d	1.00	PON1	MacroPhyt1
dPrPON2M01	PON2 production macrophyt 1	gN/m ³ /d	1.00	PON2	MacroPhyt1
dPrPON3M01	PON3 production macrophyt 1	gN/m ³ /d	1.00	PON3	MacroPhyt1
dPrPOP1M01	POP1 production macrophyt 1	gP/m ³ /d	1.00	POP1	MacroPhyt1
dPrPOP2M01	POP2 production macrophyt 1	gP/m ³ /d	1.00	POP2	MacroPhyt1
dPrPOP3M01	POP3 production macrophyt 1	gP/m ³ /d	1.00	POP3	MacroPhyt1
dNH4upSM01	NH4 uptake by SM01	gN/m ³ /d	-1.00	NH4	SM01_Upt3D
dNO3upSM01	NO3 uptake by SM01	gN/m ³ /d	-1.00	NO3	SM01_Upt3D
dPO4upSM01	PO4 uptake by SM01	gP/m ³ /d	-1.00	PO4	SM01_Upt3D
dCO2upSM01	CO2 uptake by SM01	gC/m ³ /d	-1.00	TIC	SM01_Upt3D
dCO2upSM01	CO2 uptake by SM01	gC/m ³ /d	-3.67	CO2	SM01_Upt3D
dOXYprSM01	OXY production by SM01	gC/m ³ /d	2.67	OXY	SM01_Upt3D
dGrowEM02	growth of EM02 species	gC/m ³ /d	1.00	EM02	MacroPhyt2
dGrowSM02	growth of SM02 species	gC/m ³ /d	1.00	SM02	MacroPhyt2
dDecayEM02	decay of EM02 species	gC/m ³ /d	-1.00	EM02	MacroPhyt2
dDecaySM02	decay of SM02 species	gC/m ³ /d	-1.00	SM02	MacroPhyt2
dCtEMtRH02	translocation of C from EM to RH02	gC/m ³ /d	1.00	RH02	MacroPhyt2
dCtSMtRH02	translocation of C from SM to RH02	gC/m ³ /d	1.00	RH02	MacroPhyt2
dCtRHtEM02	translocation of C from RH to EM02	gC/m ³ /d	-1.00	RH02	MacroPhyt2
dCtRHtSM02	translocation of C from RH to SM02	gC/m ³ /d	-1.00	RH02	MacroPhyt2
dNtEMtRH02	translocation of N from EM to RH02	gN/m ³ /d	1.00	NRH02	MacroPhyt2
dNtSMtRH02	translocation of N from SM to RH02	gN/m ³ /d	1.00	NRH02	MacroPhyt2
dNtRHtEM02	translocation of N from RH to EM02	gN/m ³ /d	-1.00	NRH02	MacroPhyt2
dNtRHtSM02	translocation of N from RH to SM02	gN/m ³ /d	-1.00	NRH02	MacroPhyt2
dPtEMtRH02	translocation of P from EM to RH02	gP/m ³ /d	1.00	PRH02	MacroPhyt2
dPtSMtRH02	translocation of P from SM to RH02	gP/m ³ /d	1.00	PRH02	MacroPhyt2
dPtRHtEM02	translocation of P from RH to EM02	gP/m ³ /d	-1.00	PRH02	MacroPhyt2
dPtRHtSM02	translocation of P from RH to SM02	gP/m ³ /d	-1.00	PRH02	MacroPhyt2
dNH4upEM02	NH4 uptake by EM02	gN/m ³ /d	-1.00	NH4	MacroPhyt2
dNO3upEM02	NO3 uptake by EM02	gN/m ³ /d	-1.00	NO3	MacroPhyt2
dPO4upEM02	PO4 uptake by EM02	gP/m ³ /d	-1.00	PO4	MacroPhyt2
dPrPOC1M02	POC1 production macrophyt 2	gC/m ³ /d	1.00	POC1	MacroPhyt2
dPrPOC2M02	POC2 production macrophyt 2	gC/m ³ /d	1.00	POC2	MacroPhyt2
dPrPOC3M02	POC3 production macrophyt 2	gC/m ³ /d	1.00	POC3	MacroPhyt2
dPrPON1M02	PON1 production macrophyt 2	gN/m ³ /d	1.00	PON1	MacroPhyt2
dPrPON2M02	PON2 production macrophyt 2	gN/m ³ /d	1.00	PON2	MacroPhyt2
dPrPON3M02	PON3 production macrophyt 2	gN/m ³ /d	1.00	PON3	MacroPhyt2
dPrPOP1M02	POP1 production macrophyt 2	gP/m ³ /d	1.00	POP1	MacroPhyt2
dPrPOP2M02	POP2 production macrophyt 2	gP/m ³ /d	1.00	POP2	MacroPhyt2
dPrPOP3M02	POP3 production macrophyt 2	gP/m ³ /d	1.00	POP3	MacroPhyt2
dNH4upSM02	NH4 uptake by SM02	gN/m ³ /d	-1.00	NH4	SM02_Upt3D
dNO3upSM02	NO3 uptake by SM02	gN/m ³ /d	-1.00	NO3	SM02_Upt3D
dPO4upSM02	PO4 uptake by SM02	gP/m ³ /d	-1.00	PO4	SM02_Upt3D
dCO2upSM02	CO2 uptake by SM02	gC/m ³ /d	-1.00	TIC	SM02_Upt3D
dCO2upSM02	CO2 uptake by SM02	gC/m ³ /d	-3.67	CO2	SM02_Upt3D
dOXYprSM02	OXY production by SM02	gC/m ³ /d	2.67	OXY	SM02_Upt3D
dGrowEM03	growth of EM03 species	gC/m ³ /d	1.00	EM03	MacroPhyt3
dGrowSM03	growth of SM03 species	gC/m ³ /d	1.00	SM03	MacroPhyt3
dDecayEM03	decay of EM03 species	gC/m ³ /d	-1.00	EM03	MacroPhyt3
dDecaySM03	decay of SM03 species	gC/m ³ /d	-1.00	SM03	MacroPhyt3
dCtEMtRH03	translocation of C from EM to RH03	gC/m ³ /d	1.00	RH03	MacroPhyt3

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dCtSMtRH03	translocation of C from SM to RH03	gC/m ³ /d	1.00	RH03	MacroPhyt3
dCtRHtEM03	translocation of C from RH to EM03	gC/m ³ /d	-1.00	RH03	MacroPhyt3
dCtRHtSM03	translocation of C from RH to SM03	gC/m ³ /d	-1.00	RH03	MacroPhyt3
dNtEMtRH03	translocation of N from EM to RH03	gN/m ³ /d	1.00	NRH03	MacroPhyt3
dNtSMtRH03	translocation of N from SM to RH03	gN/m ³ /d	1.00	NRH03	MacroPhyt3
dNtRHtEM03	translocation of N from RH to EM03	gN/m ³ /d	-1.00	NRH03	MacroPhyt3
dNtRHtSM03	translocation of N from RH to SM03	gN/m ³ /d	-1.00	NRH03	MacroPhyt3
dPtEMtRH03	translocation of P from EM to RH03	gP/m ³ /d	1.00	PRH03	MacroPhyt3
dPtSMtRH03	translocation of P from SM to RH03	gP/m ³ /d	1.00	PRH03	MacroPhyt3
dPtRHtEM03	translocation of P from RH to EM03	gP/m ³ /d	-1.00	PRH03	MacroPhyt3
dPtRHtSM03	translocation of P from RH to SM03	gP/m ³ /d	-1.00	PRH03	MacroPhyt3
dNH4upEM03	NH4 uptake by EM03	gN/m ³ /d	-1.00	NH4	MacroPhyt3
dNO3upEM03	NO3 uptake by EM03	gN/m ³ /d	-1.00	NO3	MacroPhyt3
dPO4upEM03	PO4 uptake by EM03	gP/m ³ /d	-1.00	PO4	MacroPhyt3
dPrPOC1M03	POC1 production macrophyt 3	gC/m ³ /d	1.00	POC1	MacroPhyt3
dPrPOC2M03	POC2 production macrophyt 3	gC/m ³ /d	1.00	POC2	MacroPhyt3
dPrPOC3M03	POC3 production macrophyt 3	gC/m ³ /d	1.00	POC3	MacroPhyt3
dPrPON1M03	PON1 production macrophyt 3	gN/m ³ /d	1.00	PON1	MacroPhyt3
dPrPON2M03	PON2 production macrophyt 3	gN/m ³ /d	1.00	PON2	MacroPhyt3
dPrPON3M03	PON3 production macrophyt 3	gN/m ³ /d	1.00	PON3	MacroPhyt3
dPrPOP1M03	POP1 production macrophyt 3	gP/m ³ /d	1.00	POP1	MacroPhyt3
dPrPOP2M03	POP2 production macrophyt 3	gP/m ³ /d	1.00	POP2	MacroPhyt3
dPrPOP3M03	POP3 production macrophyt 3	gP/m ³ /d	1.00	POP3	MacroPhyt3
dNH4upSM03	NH4 uptake by SM03	gN/m ³ /d	-1.00	NH4	SM03_Upt3D
dNO3upSM03	NO3 uptake by SM03	gN/m ³ /d	-1.00	NO3	SM03_Upt3D
dPO4upSM03	PO4 uptake by SM03	gP/m ³ /d	-1.00	PO4	SM03_Upt3D
dCO2upSM03	CO2 uptake by SM03	gC/m ³ /d	-1.00	TIC	SM03_Upt3D
dCO2upSM03	CO2 uptake by SM03	gC/m ³ /d	-3.67	CO2	SM03_Upt3D
dOXYprSM03	OXY production by SM03	gC/m ³ /d	2.67	OXY	SM03_Upt3D
dGrowEM04	growth of EM04 species	gC/m ³ /d	1.00	EM04	MacroPhyt4
dGrowSM04	growth of SM04 species	gC/m ³ /d	1.00	SM04	MacroPhyt4
dDecayEM04	decay of EM04 species	gC/m ³ /d	-1.00	EM04	MacroPhyt4
dDecaySM04	decay of SM04 species	gC/m ³ /d	-1.00	SM04	MacroPhyt4
dCtEMtRH04	translocation of C from EM to RH04	gC/m ³ /d	1.00	RH04	MacroPhyt4
dCtSMtRH04	translocation of C from SM to RH04	gC/m ³ /d	1.00	RH04	MacroPhyt4
dCtRHtEM04	translocation of C from RH to EM04	gC/m ³ /d	-1.00	RH04	MacroPhyt4
dCtRHtSM04	translocation of C from RH to SM04	gC/m ³ /d	-1.00	RH04	MacroPhyt4
dNtEMtRH04	translocation of N from EM to RH04	gN/m ³ /d	1.00	NRH04	MacroPhyt4
dNtSMtRH04	translocation of N from SM to RH04	gN/m ³ /d	1.00	NRH04	MacroPhyt4
dNtRHtEM04	translocation of N from RH to EM04	gN/m ³ /d	-1.00	NRH04	MacroPhyt4
dNtRHtSM04	translocation of N from RH to SM04	gN/m ³ /d	-1.00	NRH04	MacroPhyt4
dPtEMtRH04	translocation of P from EM to RH04	gP/m ³ /d	1.00	PRH04	MacroPhyt4
dPtSMtRH04	translocation of P from SM to RH04	gP/m ³ /d	1.00	PRH04	MacroPhyt4
dPtRHtEM04	translocation of P from RH to EM04	gP/m ³ /d	-1.00	PRH04	MacroPhyt4
dPtRHtSM04	translocation of P from RH to SM04	gP/m ³ /d	-1.00	PRH04	MacroPhyt4
dNH4upEM04	NH4 uptake by EM04	gN/m ³ /d	-1.00	NH4	MacroPhyt4
dNO3upEM04	NO3 uptake by EM04	gN/m ³ /d	-1.00	NO3	MacroPhyt4
dPO4upEM04	PO4 uptake by EM04	gP/m ³ /d	-1.00	PO4	MacroPhyt4
dPrPOC1M04	POC1 production macrophyt 4	gC/m ³ /d	1.00	POC1	MacroPhyt4
dPrPOC2M04	POC2 production macrophyt 4	gC/m ³ /d	1.00	POC2	MacroPhyt4
dPrPOC3M04	POC3 production macrophyt 4	gC/m ³ /d	1.00	POC3	MacroPhyt4
dPrPON1M04	PON1 production macrophyt 4	gN/m ³ /d	1.00	PON1	MacroPhyt4
dPrPON2M04	PON2 production macrophyt 4	gN/m ³ /d	1.00	PON2	MacroPhyt4
dPrPON3M04	PON3 production macrophyt 4	gN/m ³ /d	1.00	PON3	MacroPhyt4
dPrPOP1M04	POP1 production macrophyt 4	gP/m ³ /d	1.00	POP1	MacroPhyt4
dPrPOP2M04	POP2 production macrophyt 4	gP/m ³ /d	1.00	POP2	MacroPhyt4
dPrPOP3M04	POP3 production macrophyt 4	gP/m ³ /d	1.00	POP3	MacroPhyt4
dNH4upSM04	NH4 uptake by SM04	gN/m ³ /d	-1.00	NH4	SM04_Upt3D
dNO3upSM04	NO3 uptake by SM04	gN/m ³ /d	-1.00	NO3	SM04_Upt3D
dPO4upSM04	PO4 uptake by SM04	gP/m ³ /d	-1.00	PO4	SM04_Upt3D
dCO2upSM04	CO2 uptake by SM04	gC/m ³ /d	-1.00	TIC	SM04_Upt3D
dCO2upSM04	CO2 uptake by SM04	gC/m ³ /d	-3.67	CO2	SM04_Upt3D
dOXYprSM04	OXY production by SM04	gC/m ³ /d	2.67	OXY	SM04_Upt3D
dGrowEM05	growth of EM05 species	gC/m ³ /d	1.00	EM05	MacroPhyt5
dGrowSM05	growth of SM05 species	gC/m ³ /d	1.00	SM05	MacroPhyt5
dDecayEM05	decay of EM05 species	gC/m ³ /d	-1.00	EM05	MacroPhyt5
dDecaySM05	decay of SM05 species	gC/m ³ /d	-1.00	SM05	MacroPhyt5
dCtEMtRH05	translocation of C from EM to RH05	gC/m ³ /d	1.00	RH05	MacroPhyt5

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dCtSMtRH05	translocation of C from SM to RH05	gC/m ³ /d	1.00	RH05	MacroPhyt5
dCtRHtEM05	translocation of C from RH to EM05	gC/m ³ /d	-1.00	RH05	MacroPhyt5
dCtRHtSM05	translocation of C from RH to SM05	gC/m ³ /d	-1.00	RH05	MacroPhyt5
dNtEMtRH05	translocation of N from EM to RH05	gN/m ³ /d	1.00	NRH05	MacroPhyt5
dNtSMtRH05	translocation of N from SM to RH05	gN/m ³ /d	1.00	NRH05	MacroPhyt5
dNtRHtEM05	translocation of N from RH to EM05	gN/m ³ /d	-1.00	NRH05	MacroPhyt5
dNtRHtSM05	translocation of N from RH to SM05	gN/m ³ /d	-1.00	NRH05	MacroPhyt5
dPtEMtRH05	translocation of P from EM to RH05	gP/m ³ /d	1.00	PRH05	MacroPhyt5
dPtSMtRH05	translocation of P from SM to RH05	gP/m ³ /d	1.00	PRH05	MacroPhyt5
dPtRHtEM05	translocation of P from RH to EM05	gP/m ³ /d	-1.00	PRH05	MacroPhyt5
dPtRHtSM05	translocation of P from RH to SM05	gP/m ³ /d	-1.00	PRH05	MacroPhyt5
dNH4upEM05	NH4 uptake by EM05	gN/m ³ /d	-1.00	NH4	MacroPhyt5
dNO3upEM05	NO3 uptake by EM05	gN/m ³ /d	-1.00	NO3	MacroPhyt5
dPO4upEM05	PO4 uptake by EM05	gP/m ³ /d	-1.00	PO4	MacroPhyt5
dPrPOC1M05	POC1 production macrophyt 5	gC/m ³ /d	1.00	POC1	MacroPhyt5
dPrPOC2M05	POC2 production macrophyt 5	gC/m ³ /d	1.00	POC2	MacroPhyt5
dPrPOC3M05	POC3 production macrophyt 5	gC/m ³ /d	1.00	POC3	MacroPhyt5
dPrPON1M05	PON1 production macrophyt 5	gN/m ³ /d	1.00	PON1	MacroPhyt5
dPrPON2M05	PON2 production macrophyt 5	gN/m ³ /d	1.00	PON2	MacroPhyt5
dPrPON3M05	PON3 production macrophyt 5	gN/m ³ /d	1.00	PON3	MacroPhyt5
dPrPOP1M05	POP1 production macrophyt 5	gP/m ³ /d	1.00	POP1	MacroPhyt5
dPrPOP2M05	POP2 production macrophyt 5	gP/m ³ /d	1.00	POP2	MacroPhyt5
dPrPOP3M05	POP3 production macrophyt 5	gP/m ³ /d	1.00	POP3	MacroPhyt5
dNH4upSM05	NH4 uptake by SM05	gN/m ³ /d	-1.00	NH4	SM05_Upt3D
dNO3upSM05	NO3 uptake by SM05	gN/m ³ /d	-1.00	NO3	SM05_Upt3D
dPO4upSM05	PO4 uptake by SM05	gP/m ³ /d	-1.00	PO4	SM05_Upt3D
dCO2upSM05	CO2 uptake by SM05	gC/m ³ /d	-1.00	TIC	SM05_Upt3D
dCO2upSM05	CO2 uptake by SM05	gC/m ³ /d	-3.67	CO2	SM05_Upt3D
dOXYprSM05	OXY production by SM05	gC/m ³ /d	2.67	OXY	SM05_Upt3D
dGrazeEM01	grazing flux macrophyte EM01	gC/m ³ /d	-1.00	EM01	GRZMAC01
dGrazeSM01	grazing flux macrophyte SM01	gC/m ³ /d	-1.00	SM01	GRZMAC01
dGrazeRH01	grazing flux macrophyte RH01	gC/m ³ /d	-1.00	RH01	GRZMAC01
dGrzNRH01	grazing flux macrophyte NRH01	gC/m ³ /d	-1.00	NRH01	GRZMAC01
dGrzPRH01	grazing flux macrophyte PRH01	gC/m ³ /d	-1.00	PRH01	GRZMAC01
dGrazeEM02	grazing flux macrophyte EM02	gC/m ³ /d	-1.00	EM02	GRZMAC02
dGrazeSM02	grazing flux macrophyte SM02	gC/m ³ /d	-1.00	SM02	GRZMAC02
dGrazeRH02	grazing flux macrophyte RH02	gC/m ³ /d	-1.00	RH02	GRZMAC02
dGrzNRH02	grazing flux macrophyte NRH02	gC/m ³ /d	-1.00	NRH02	GRZMAC02
dGrzPRH02	grazing flux macrophyte PRH02	gC/m ³ /d	-1.00	PRH02	GRZMAC02
dGrazeEM03	grazing flux macrophyte EM03	gC/m ³ /d	-1.00	EM03	GRZMAC03
dGrazeSM03	grazing flux macrophyte SM03	gC/m ³ /d	-1.00	SM03	GRZMAC03
dGrazeRH03	grazing flux macrophyte RH03	gC/m ³ /d	-1.00	RH03	GRZMAC03
dGrzNRH03	grazing flux macrophyte NRH03	gC/m ³ /d	-1.00	NRH03	GRZMAC03
dGrzPRH03	grazing flux macrophyte PRH03	gC/m ³ /d	-1.00	PRH03	GRZMAC03
dGrazeEM04	grazing flux macrophyte EM04	gC/m ³ /d	-1.00	EM04	GRZMAC04
dGrazeSM04	grazing flux macrophyte SM04	gC/m ³ /d	-1.00	SM04	GRZMAC04
dGrazeRH04	grazing flux macrophyte RH04	gC/m ³ /d	-1.00	RH04	GRZMAC04
dGrzNRH04	grazing flux macrophyte NRH04	gC/m ³ /d	-1.00	NRH04	GRZMAC04
dGrzPRH04	grazing flux macrophyte PRH04	gC/m ³ /d	-1.00	PRH04	GRZMAC04
dGrazeEM05	grazing flux macrophyte EM05	gC/m ³ /d	-1.00	EM05	GRZMAC05
dGrazeSM05	grazing flux macrophyte SM05	gC/m ³ /d	-1.00	SM05	GRZMAC05
dGrazeRH05	grazing flux macrophyte RH05	gC/m ³ /d	-1.00	RH05	GRZMAC05
dGrzNRH05	grazing flux macrophyte NRH05	gC/m ³ /d	-1.00	NRH05	GRZMAC05
dGrzPRH05	grazing flux macrophyte PRH05	gC/m ³ /d	-1.00	PRH05	GRZMAC05
dHrvEM01	harvesting flux macrophyte EM01	gC/m ³ /d	-1.00	EM01	HRVMAC01
dHrvSM01	harvesting flux macrophyte SM01	gC/m ³ /d	-1.00	SM01	HRVMAC01
dHrvRH01	harvesting flux macrophyte RH01	gC/m ³ /d	-1.00	RH01	HRVMAC01
dHrvNRH01	harvesting flux macrophyte NRH01	gC/m ³ /d	-1.00	NRH01	HRVMAC01
dHrvPRH01	harvesting flux macrophyte PRH01	gC/m ³ /d	-1.00	PRH01	HRVMAC01
dHrvEM02	harvesting flux macrophyte EM02	gC/m ³ /d	-1.00	EM02	HRVMAC02
dHrvSM02	harvesting flux macrophyte SM02	gC/m ³ /d	-1.00	SM02	HRVMAC02
dHrvRH02	harvesting flux macrophyte RH02	gC/m ³ /d	-1.00	RH02	HRVMAC02
dHrvNRH02	harvesting flux macrophyte NRH02	gC/m ³ /d	-1.00	NRH02	HRVMAC02
dHrvPRH02	harvesting flux macrophyte PRH02	gC/m ³ /d	-1.00	PRH02	HRVMAC02
dHrvEM03	harvesting flux macrophyte EM03	gC/m ³ /d	-1.00	EM03	HRVMAC03
dHrvSM03	harvesting flux macrophyte SM03	gC/m ³ /d	-1.00	SM03	HRVMAC03
dHrvRH03	harvesting flux macrophyte RH03	gC/m ³ /d	-1.00	RH03	HRVMAC03
dHrvNRH03	harvesting flux macrophyte NRH03	gC/m ³ /d	-1.00	NRH03	HRVMAC03

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dHrvPRH03	harvesting flux macrophyte PRH03	gC/m ³ /d	-1.00	PRH03	HRVMAC03
dHrvEM04	harvesting flux macrophyte EM04	gC/m ³ /d	-1.00	EM04	HRVMAC04
dHrvSM04	harvesting flux macrophyte SM04	gC/m ³ /d	-1.00	SM04	HRVMAC04
dHrvRH04	harvesting flux macrophyte RH04	gC/m ³ /d	-1.00	RH04	HRVMAC04
dHrvNRH04	harvesting flux macrophyte NRH04	gC/m ³ /d	-1.00	NRH04	HRVMAC04
dHrvPRH04	harvesting flux macrophyte PRH04	gC/m ³ /d	-1.00	PRH04	HRVMAC04
dHrvEM05	harvesting flux macrophyte EM05	gC/m ³ /d	-1.00	EM05	HRVMAC05
dHrvSM05	harvesting flux macrophyte SM05	gC/m ³ /d	-1.00	SM05	HRVMAC05
dHrvRH05	harvesting flux macrophyte RH05	gC/m ³ /d	-1.00	RH05	HRVMAC05
dHrvNRH05	harvesting flux macrophyte NRH05	gC/m ³ /d	-1.00	NRH05	HRVMAC05
dHrvPRH05	harvesting flux macrophyte PRH05	gC/m ³ /d	-1.00	PRH05	HRVMAC05
dM_MortS1	mortality flux of DEB Mussel to DetCS1	gC/m ³ /d	1.00	DetCS1	DEBGRZ_M
dM_NMrtS1	mortality flux of DEB Mussel to DetNS1	gN/m ³ /d	1.00	DetNS1	DEBGRZ_M
dM_PMrS1	mortality flux of DEB Mussel to DetPS1	gP/m ³ /d	1.00	DetPS1	DEBGRZ_M
dM_Mor	mortality flux of DEB Mussel	gC/m ³ /d	1.00	POC1	DEBGRZ_M
dM_NMrt	mortality flux of DEB Mussel	gN/m ³ /d	1.00	PON1	DEBGRZ_M
dM_PMr	mortality flux of DEB Mussel	gP/m ³ /d	1.00	POP1	DEBGRZ_M
dM_Resp	respiration flux of DEB Mussel	gC/m ³ /d	-2.67	OXY	DEBGRZ_M
dM_Resp	respiration flux of DEB Mussel	gC/m ³ /d	1.00	TIC	DEBGRZ_M
dM_NRes	respiration flux of DEB Mussel	gN/m ³ /d	1.00	NH4	DEBGRZ_M
dM_NRes	respiration flux of DEB Mussel	gN/m ³ /d	-0.07	H+	DEBGRZ_M
dM_NRes	respiration flux of DEB Mussel	gN/m ³ /d	4.36	ALKA	DEBGRZ_M
dM_PRes	respiration flux of DEB Mussel	gP/m ³ /d	1.00	PO4	DEBGRZ_M
dM_PRes	respiration flux of DEB Mussel	gP/m ³ /d	0.10	H+	DEBGRZ_M
dM_PRes	respiration flux of DEB Mussel	gP/m ³ /d	-1.97	ALKA	DEBGRZ_M
dM_Def	defecation flux of DEB Mussel	gC/m ³ /d	1.00	POC1	DEBGRZ_M
dM_NDef	defecation flux N of DEB Mussel	gN/m ³ /d	1.00	PON1	DEBGRZ_M
dM_PDef	defecation flux P of DEB Mussel	gP/m ³ /d	1.00	POP1	DEBGRZ_M
dM_SiDef	defecation flux Si of DEB Mussel	gSi/m ³ /d	1.00	Opal	DEBGRZ_M
dM_SpwDet	spawning flux of DEB Mussel to DetC	gC/m ³ /d	1.00	POC1	DEBGRZ_M
dM_SpwDet	spawning flux of DEB Mussel to DetC	gC/m ³ /d	-1.00	Mussel_R	DEBGRZ_M
dM_NSpDet	spawning flux of DEB mussel to DetN	gN/m ³ /d	1.00	PON1	DEBGRZ_M
dM_PSpDet	spawning flux of DEB Mussel to DetP	gP/m ³ /d	1.00	POP1	DEBGRZ_M
dM_Vgr	growth flux struct biomass DEB Mussel	gC/m ³ /d	1.00	Mussel_V	DEBGRZ_M
dM_Vmor	mortality flux struct biomass DEB Mussel	gC/m ³ /d	-1.00	Mussel_V	DEBGRZ_M
dM_Ea	anabolic flux energy reserves DEB Mussel	gC/m ³ /d	1.00	Mussel_E	DEBGRZ_M
dM_Ec	catabolic flux energy reserves DEB Mussel	gC/m ³ /d	-1.00	Mussel_E	DEBGRZ_M
dM_Emor	mortality flux energy reserves DEB Mussel	gC/m ³ /d	-1.00	Mussel_E	DEBGRZ_M
dM_Rgr	growth flux gonadal tissue DEB Mussel	gC/m ³ /d	1.00	Mussel_R	DEBGRZ_M
dM_Rmor	mortality flux gonadal tissue DEB Mussel	gC/m ³ /d	-1.00	Mussel_R	DEBGRZ_M
dM_Nind	increase dens by growth V1morphs only	cm ³ /(m ² d)	1.00	Mussel_N	DEBGRZ_M
dM_Mort	mortality and harvesting of DEB Mussel	gC/(m ² d)	-1.00	Mussel_N	DEBGRZ_M
dM_POC1	grazing of POC1 by DEB Mussel	gC/m ³ /d	-1.00	POC1	DEBGRZ_M
dM_DetC	grazing of DetC by DEB Mussel	gC/m ³ /d	-1.00	DetC	DEBGRZ_M
dM_DCS1	grazing of DetCS1 by DEB Mussel	gC/m ³ /d	-1.00	DetCS1	DEBGRZ_M
dM_PON1	grazing of PON by DEB Mussel	gC/m ³ /d	-1.00	PON1	DEBGRZ_M
dM_DetN	grazing of DetN by DEB Mussel	gC/m ³ /d	-1.00	DetN	DEBGRZ_M
dM_DNS1	grazing of DetNS1 by DEB Mussel	gC/m ³ /d	-1.00	DetNS1	DEBGRZ_M
dM_POP	grazing of POP by DEB Mussel	gC/m ³ /d	-1.00	POP1	DEBGRZ_M
dM_DetP	grazing of DetP by DEB Mussel	gC/m ³ /d	-1.00	DetP	DEBGRZ_M
dM_DPS1	grazing of DetPS1 by DEB Mussel	gC/m ³ /d	-1.00	DetPS1	DEBGRZ_M
dM_POSi	grazing of POSi by DEB Mussel	gC/m ³ /d	-1.00	Opal	DEBGRZ_M
dM_DSi	grazing of DetSi by DEB Mussel	gC/m ³ /d	-1.00	DetSi	DEBGRZ_M
dM_DSiS	grazing of DetSiS1 by DEB Mussel	gC/m ³ /d	-1.00	DetSiS1	DEBGRZ_M
dM_Grn	grazing of Greens by DEB Mussel	gC/m ³ /d	-1.00	GREEN	DEBGRZ_M
dM_Diat	grazing of Diatoms by DEB Mussel	gC/m ³ /d	-1.00	DIAT	DEBGRZ_M
dM_ALG01	grazing of algae type 01 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG01	DEBGRZ_M
dM_ALG02	grazing of algae type 02 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG02	DEBGRZ_M
dM_ALG03	grazing of algae type 03 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG03	DEBGRZ_M
dM_ALG04	grazing of algae type 04 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG04	DEBGRZ_M
dM_ALG05	grazing of algae type 05 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG05	DEBGRZ_M
dM_ALG06	grazing of algae type 06 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG06	DEBGRZ_M

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dM_ALG07	grazing of algae type 07 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG07	DEBGRZ_M
dM_ALG08	grazing of algae type 08 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG08	DEBGRZ_M
dM_ALG09	grazing of algae type 09 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG09	DEBGRZ_M
dM_ALG10	grazing of algae type 10 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG10	DEBGRZ_M
dM_ALG11	grazing of algae type 11 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG11	DEBGRZ_M
dM_ALG12	grazing of algae type 12 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG12	DEBGRZ_M
dM_ALG13	grazing of algae type 13 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG13	DEBGRZ_M
dM_ALG14	grazing of algae type 14 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG14	DEBGRZ_M
dM_ALG15	grazing of algae type 15 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG15	DEBGRZ_M
dM_ALG16	grazing of algae type 16 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG16	DEBGRZ_M
dM_ALG17	grazing of algae type 17 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG17	DEBGRZ_M
dM_ALG18	grazing of algae type 18 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG18	DEBGRZ_M
dM_ALG19	grazing of algae type 19 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG19	DEBGRZ_M
dM_ALG20	grazing of algae type 20 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG20	DEBGRZ_M
dM_ALG21	grazing of algae type 21 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG21	DEBGRZ_M
dM_ALG22	grazing of algae type 22 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG22	DEBGRZ_M
dM_ALG23	grazing of algae type 23 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG23	DEBGRZ_M
dM_ALG24	grazing of algae type 24 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG24	DEBGRZ_M
dM_ALG25	grazing of algae type 25 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG25	DEBGRZ_M
dM_ALG26	grazing of algae type 26 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG26	DEBGRZ_M
dM_ALG27	grazing of algae type 27 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG27	DEBGRZ_M
dM_ALG28	grazing of algae type 28 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG28	DEBGRZ_M
dM_ALG29	grazing of algae type 29 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG29	DEBGRZ_M
dM_ALG30	grazing of algae type 30 by DEB Mussel	gC/m ³ /d	-1.00	BLOOMALG30	DEBGRZ_M
dM_F1	grazing of dummy food 1 by DEB Mussel	gC/m ³ /d	-1.00	DF	DEBGRZ_M
dM_F2	grazing of dummy food 2 by DEB Mussel	gC/m ³ /d	-1.00	F2	DEBGRZ_M
dM_F3	grazing of dummy food 3 by DEB Mussel	gC/m ³ /d	-1.00	F3	DEBGRZ_M
dM_F4	grazing of dummy food 4 by DEB Mussel	gC/m ³ /d	-1.00	F4	DEBGRZ_M
dM_F5	grazing of dummy food 5 by DEB Mussel	gC/m ³ /d	-1.00	F5	DEBGRZ_M
dM_F6	grazing of dummy food 6 by DEB Mussel	gC/m ³ /d	-1.00	F6	DEBGRZ_M
dM_F7	grazing of dummy food 7 by DEB Mussel	gC/m ³ /d	-1.00	F7	DEBGRZ_M
dM_F8	grazing of dummy food 8 by DEB Mussel	gC/m ³ /d	-1.00	F8	DEBGRZ_M
dZ_MortS1	mortality flux DEB Zooplankton to DetCS1	gC/m ³ /d	1.00	DetCS1	DEBGRZ_Z
dZ_NMrtS1	mortality flux DEB Zooplankton to DetNS1	gN/m ³ /d	1.00	DetNS1	DEBGRZ_Z
dZ_PMrtS1	mortality flux DEB Zooplankton to DetPS1	gP/m ³ /d	1.00	DetPS1	DEBGRZ_Z
dZ_Mor	mortality flux DEB Zooplankton	gC/m ³ /d	1.00	POC1	DEBGRZ_Z
dZ_NMrt	mortality flux DEB Zooplankton	gN/m ³ /d	1.00	PON1	DEBGRZ_Z
dZ_PMrt	mortality flux DEB Zooplankton	gP/m ³ /d	1.00	POP1	DEBGRZ_Z
dZ_Resp	respiration flux DEB Zooplankton	gC/m ³ /d	-2.67	OXY	DEBGRZ_Z
dZ_Resp	respiration flux DEB Zooplankton	gC/m ³ /d	1.00	TIC	DEBGRZ_Z
dZ_NRes	respiration flux DEB Zooplankton	gN/m ³ /d	1.00	NH4	DEBGRZ_Z
dZ_NRes	respiration flux DEB Zooplankton	gN/m ³ /d	-0.07	H+	DEBGRZ_Z
dZ_NRes	respiration flux DEB Zooplankton	gN/m ³ /d	4.36	ALKA	DEBGRZ_Z
dZ_PRes	respiration flux DEB Zooplankton	gP/m ³ /d	1.00	PO4	DEBGRZ_Z
dZ_PRes	respiration flux DEB Zooplankton	gP/m ³ /d	0.10	H+	DEBGRZ_Z
dZ_PRes	respiration flux DEB Zooplankton	gP/m ³ /d	-1.97	ALKA	DEBGRZ_Z
dZ_Def	defecation flux DEB Zooplankton	gC/m ³ /d	1.00	POC1	DEBGRZ_Z
dZ_NDef	defecation flux N DEB Zooplankton	gN/m ³ /d	1.00	PON1	DEBGRZ_Z
dZ_PDef	defecation flux P DEB Zooplankton	gP/m ³ /d	1.00	POP1	DEBGRZ_Z
dZ_SiDef	defecation flux Si DEB Zooplankton	gSi/m ³ /d	1.00	Opal	DEBGRZ_Z
dZ_SpwDet	spawning flux DEB Zooplankton to DetC	gC/m ³ /d	1.00	POC1	DEBGRZ_Z
dZ_SpwDet	spawning flux DEB Zooplankton to DetC	gC/m ³ /d	-1.00	Zoopl_R	DEBGRZ_Z
dZ_NSpDet	spawning flux DEB Zooplankton to DetN	gN/m ³ /d	1.00	PON1	DEBGRZ_Z
dZ_PSpDet	spawning flux DEB Zooplankton to DetP	gP/m ³ /d	1.00	POP1	DEBGRZ_Z

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dZ_Vgr	growth flux struct biomass DEB Zoopl	gC/m ³ /d	1.00	Zoopl_V	DEBGRZ_Z
dZ_Vmor	mortality flux struct biomass DEB Zoopl	gC/m ³ /d	-1.00	Zoopl_V	DEBGRZ_Z
dZ_Ea	anabolic flux energy reserves DEB Zoopl	gC/m ³ /d	1.00	Zoopl_E	DEBGRZ_Z
dZ_Ec	catabolic flux energy reserves DEB Zoopl	gC/m ³ /d	-1.00	Zoopl_E	DEBGRZ_Z
dZ_Emor	mortality flux energy reserves DEB Zoopl	gC/m ³ /d	-1.00	Zoopl_E	DEBGRZ_Z
dZ_Rgr	growth flux gonadal tissue DEB Zoopl	gC/m ³ /d	1.00	Zoopl_R	DEBGRZ_Z
dZ_Rmor	mortality flux gonadal tissue DEB Zoopl	gC/m ³ /d	-1.00	Zoopl_R	DEBGRZ_Z
dZ_Nind	increase dens by growth V1morphs only	cm ³ /(m ² d)	1.00	Zoopl_N	DEBGRZ_Z
dZ_Mort	mortality and harvesting of DEB Zoopl	gC/(m ² d)	-1.00	Zoopl_N	DEBGRZ_Z
dZ_POC1	grazing of POC1 by DEB Zooplankton	gC/m ³ /d	-1.00	POC1	DEBGRZ_Z
dZ_DetC	grazing of DetC by DEB Zooplankton	gC/m ³ /d	-1.00	DetC	DEBGRZ_Z
dZ_DCS1	grazing of DetCS1 by DEB Zooplankton	gC/m ³ /d	-1.00	DetCS1	DEBGRZ_Z
dZ_PON1	grazing of PON by DEB Zooplankton	gC/m ³ /d	-1.00	PON1	DEBGRZ_Z
dZ_DetN	grazing of DetN by DEB Zooplankton	gC/m ³ /d	-1.00	DetN	DEBGRZ_Z
dZ_DNS1	grazing of DetNS1 by DEB Zooplankton	gC/m ³ /d	-1.00	DetNS1	DEBGRZ_Z
dZ_POP	grazing of POP by DEB Zooplankton	gC/m ³ /d	-1.00	POP1	DEBGRZ_Z
dZ_DetP	grazing of DetP by DEB Zooplankton	gC/m ³ /d	-1.00	DetP	DEBGRZ_Z
dZ_DPS1	grazing of DetPS1 by DEB Zooplankton	gC/m ³ /d	-1.00	DetPS1	DEBGRZ_Z
dZ_POSi	grazing of POSi by DEB Zooplankton	gC/m ³ /d	-1.00	Opal	DEBGRZ_Z
dZ_DSi	grazing of DetSi by DEB Zooplankton	gC/m ³ /d	-1.00	DetSi	DEBGRZ_Z
dZ_DSiS	grazing of DetSiS1 by DEB Zooplankton	gC/m ³ /d	-1.00	DetSiS1	DEBGRZ_Z
dZ_Grn	grazing of Greens by DEB Zooplankton	gC/m ³ /d	-1.00	GREEN	DEBGRZ_Z
dZ_Diat	grazing of Diatoms by DEB Zooplankton	gC/m ³ /d	-1.00	DIAT	DEBGRZ_Z
dZ_ALG01	grazing of algae type 01 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG01	DEBGRZ_Z
dZ_ALG02	grazing of algae type 02 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG02	DEBGRZ_Z
dZ_ALG03	grazing of algae type 03 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG03	DEBGRZ_Z
dZ_ALG04	grazing of algae type 04 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG04	DEBGRZ_Z
dZ_ALG05	grazing of algae type 05 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG05	DEBGRZ_Z
dZ_ALG06	grazing of algae type 06 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG06	DEBGRZ_Z
dZ_ALG07	grazing of algae type 07 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG07	DEBGRZ_Z
dZ_ALG08	grazing of algae type 08 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG08	DEBGRZ_Z
dZ_ALG09	grazing of algae type 09 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG09	DEBGRZ_Z
dZ_ALG10	grazing of algae type 10 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG10	DEBGRZ_Z
dZ_ALG11	grazing of algae type 11 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG11	DEBGRZ_Z
dZ_ALG12	grazing of algae type 12 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG12	DEBGRZ_Z
dZ_ALG13	grazing of algae type 13 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG13	DEBGRZ_Z
dZ_ALG14	grazing of algae type 14 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG14	DEBGRZ_Z
dZ_ALG15	grazing of algae type 15 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG15	DEBGRZ_Z
dZ_ALG16	grazing of algae type 16 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG16	DEBGRZ_Z
dZ_ALG17	grazing of algae type 17 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG17	DEBGRZ_Z
dZ_ALG18	grazing of algae type 18 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG18	DEBGRZ_Z
dZ_ALG19	grazing of algae type 19 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG19	DEBGRZ_Z
dZ_ALG20	grazing of algae type 20 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG20	DEBGRZ_Z
dZ_ALG21	grazing of algae type 21 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG21	DEBGRZ_Z
dZ_ALG22	grazing of algae type 22 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG22	DEBGRZ_Z
dZ_ALG23	grazing of algae type 23 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG23	DEBGRZ_Z
dZ_ALG24	grazing of algae type 24 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG24	DEBGRZ_Z
dZ_ALG25	grazing of algae type 25 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG25	DEBGRZ_Z
dZ_ALG26	grazing of algae type 26 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG26	DEBGRZ_Z
dZ_ALG27	grazing of algae type 27 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG27	DEBGRZ_Z
dZ_ALG28	grazing of algae type 28 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG28	DEBGRZ_Z
dZ_ALG29	grazing of algae type 29 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG29	DEBGRZ_Z
dZ_ALG30	grazing of algae type 30 by DEB Zoopl	gC/m ³ /d	-1.00	BLOOMALG30	DEBGRZ_Z
dZ_F1	grazing of dummy food 1 by DEB Zoopl	gC/m ³ /d	-1.00	DF	DEBGRZ_Z
dZ_F2	grazing of dummy food 2 by DEB Zoopl	gC/m ³ /d	-1.00	F2	DEBGRZ_Z
dZ_F3	grazing of dummy food 3 by DEB Zoopl	gC/m ³ /d	-1.00	F3	DEBGRZ_Z
dZ_F4	grazing of dummy food 4 by DEB Zoopl	gC/m ³ /d	-1.00	F4	DEBGRZ_Z
dZ_F5	grazing of dummy food 5 by DEB Zoopl	gC/m ³ /d	-1.00	F5	DEBGRZ_Z
dZ_F6	grazing of dummy food 6 by DEB Zoopl	gC/m ³ /d	-1.00	F6	DEBGRZ_Z
dZ_F7	grazing of dummy food 7 by DEB Zoopl	gC/m ³ /d	-1.00	F7	DEBGRZ_Z
dZ_F8	grazing of dummy food 8 by DEB Zoopl	gC/m ³ /d	-1.00	F8	DEBGRZ_Z

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dG3_MortS1	mortality flux of DEB Grazer3 to DetCS1	gC/m ³ /d	1.00	DetCS1	DEBGRZ_G3
dG3_NMrtS1	mortality flux of DEB Grazer3 to DetNS1	gN/m ³ /d	1.00	DetNS1	DEBGRZ_G3
dG3_PMrtS1	mortality flux of DEB Grazer3 to DetPS1	gP/m ³ /d	1.00	DetPS1	DEBGRZ_G3
dG3_Mor	mortality flux of DEB Grazer3	gC/m ³ /d	1.00	POC1	DEBGRZ_G3
dG3_NMrt	mortality flux of DEB Grazer3	gN/m ³ /d	1.00	PON1	DEBGRZ_G3
dG3_PMrt	mortality flux of DEB Grazer3	gP/m ³ /d	1.00	POP1	DEBGRZ_G3
dG3_Resp	respiration flux of DEB Grazer3	gC/m ³ /d	-2.67	OXY	DEBGRZ_G3
dG3_Resp	respiration flux of DEB Grazer3	gC/m ³ /d	1.00	TIC	DEBGRZ_G3
dG3_NRes	respiration flux of DEB Grazer3	gN/m ³ /d	1.00	NH4	DEBGRZ_G3
dG3_NRes	respiration flux of DEB Grazer3	gN/m ³ /d	-0.07	H+	DEBGRZ_G3
dG3_NRes	respiration flux of DEB Grazer3	gN/m ³ /d	4.36	ALKA	DEBGRZ_G3
dG3_PRes	respiration flux of DEB Grazer3	gP/m ³ /d	1.00	PO4	DEBGRZ_G3
dG3_PRes	respiration flux of DEB Grazer3	gP/m ³ /d	0.10	H+	DEBGRZ_G3
dG3_PRes	respiration flux of DEB Grazer3	gP/m ³ /d	-1.97	ALKA	DEBGRZ_G3
dG3_Def	defecation flux of DEB Grazer3	gC/m ³ /d	1.00	POC1	DEBGRZ_G3
dG3_NDef	defecation flux N of DEB Grazer3	gN/m ³ /d	1.00	PON1	DEBGRZ_G3
dG3_PDef	defecation flux P of DEB Grazer3	gP/m ³ /d	1.00	POP1	DEBGRZ_G3
dG3_SiDef	defecation flux Si of DEB Grazer3	gSi/m ³ /d	1.00	Opal	DEBGRZ_G3
dG3_SpwDet	spawning flux of DEB Grazer3 to DetC	gC/m ³ /d	1.00	POC1	DEBGRZ_G3
dG3_SpwDet	spawning flux of DEB Grazer3 to DetC	gC/m ³ /d	-1.00	Grazer3_R	DEBGRZ_G3
dG3_NSpDet	spawning flux of DEB Grazer3 to DetN	gN/m ³ /d	1.00	PON1	DEBGRZ_G3
dG3_PSpDet	spawning flux of DEB Grazer3 to DetP	gP/m ³ /d	1.00	POP1	DEBGRZ_G3
dG3_Vgr	growth flux struct biomass DEB Grazer3	gC/m ³ /d	1.00	Grazer3_V	DEBGRZ_G3
dG3_Vmor	mortality flux struct biomass DEB Grazer3	gC/m ³ /d	-1.00	Grazer3_V	DEBGRZ_G3
dG3_Ea	anabolic flux energy reserves DEB Grazer3	gC/m ³ /d	1.00	Grazer3_E	DEBGRZ_G3
dG3_Ec	catabolic flux enrgy reserves DEB Grazer3	gC/m ³ /d	-1.00	Grazer3_E	DEBGRZ_G3
dG3_Emor	mortality flux enrgy reserves DEB Grazer3	gC/m ³ /d	-1.00	Grazer3_E	DEBGRZ_G3
dG3_Rgr	growth flux gonadal tissue DEB Grazer3	gC/m ³ /d	1.00	Grazer3_R	DEBGRZ_G3
dG3_Rmor	mortality flux gonadal tissue DEB Grazer3	gC/m ³ /d	-1.00	Grazer3_R	DEBGRZ_G3
dG3_Nind	increase dens by growth V1morphs only	cm ³ /(m ² d)	1.00	Grazer3_N	DEBGRZ_G3
dG3_Mort	mortality and harvesting of DEB Grazer3	gC/(m ² d)	-1.00	Grazer3_N	DEBGRZ_G3
dG3_POC1	grazing of POC1 by DEB Grazer3	gC/m ³ /d	-1.00	POC1	DEBGRZ_G3
dG3_DetC	grazing of DetC by DEB Grazer3	gC/m ³ /d	-1.00	DetC	DEBGRZ_G3
dG3_DCS1	grazing of DetCS1 by DEB Grazer3	gC/m ³ /d	-1.00	DetCS1	DEBGRZ_G3
dG3_PON1	grazing of PON by DEB Grazer3	gC/m ³ /d	-1.00	PON1	DEBGRZ_G3
dG3_DetN	grazing of DetN by DEB Grazer3	gC/m ³ /d	-1.00	DetN	DEBGRZ_G3
dG3_DNS1	grazing of DetNS1 by DEB Grazer3	gC/m ³ /d	-1.00	DetNS1	DEBGRZ_G3
dG3_POP	grazing of POP by DEB Grazer3	gC/m ³ /d	-1.00	POP1	DEBGRZ_G3
dG3_DetP	grazing of DetP by DEB Grazer3	gC/m ³ /d	-1.00	DetP	DEBGRZ_G3
dG3_DPS1	grazing of DetPS1 by DEB Grazer3	gC/m ³ /d	-1.00	DetPS1	DEBGRZ_G3
dG3_POSi	grazing of POSi by DEB Grazer3	gC/m ³ /d	-1.00	Opal	DEBGRZ_G3
dG3_DSi	grazing of DetSi by DEB Grazer3	gC/m ³ /d	-1.00	DetSi	DEBGRZ_G3
dG3_DSiS	grazing of DetSiS1 by DEB Grazer3	gC/m ³ /d	-1.00	DetSiS1	DEBGRZ_G3
dG3_Grn	grazing of Greens by DEB Grazer3	gC/m ³ /d	-1.00	GREEN	DEBGRZ_G3
dG3_Diat	grazing of Diatoms by DEB Grazer3	gC/m ³ /d	-1.00	DIAT	DEBGRZ_G3
dG3_ALG01	grazing of algae type 01 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG01	DEBGRZ_G3
dG3_ALG02	grazing of algae type 02 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG02	DEBGRZ_G3
dG3_ALG03	grazing of algae type 03 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG03	DEBGRZ_G3
dG3_ALG04	grazing of algae type 04 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG04	DEBGRZ_G3
dG3_ALG05	grazing of algae type 05 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG05	DEBGRZ_G3
dG3_ALG06	grazing of algae type 06 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG06	DEBGRZ_G3

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dG3_ALG07	grazing of algae type 07 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG07	DEBGRZ_G3
dG3_ALG08	grazing of algae type 08 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG08	DEBGRZ_G3
dG3_ALG09	grazing of algae type 09 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG09	DEBGRZ_G3
dG3_ALG10	grazing of algae type 10 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG10	DEBGRZ_G3
dG3_ALG11	grazing of algae type 11 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG11	DEBGRZ_G3
dG3_ALG12	grazing of algae type 12 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG12	DEBGRZ_G3
dG3_ALG13	grazing of algae type 13 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG13	DEBGRZ_G3
dG3_ALG14	grazing of algae type 14 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG14	DEBGRZ_G3
dG3_ALG15	grazing of algae type 15 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG15	DEBGRZ_G3
dG3_ALG16	grazing of algae type 16 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG16	DEBGRZ_G3
dG3_ALG17	grazing of algae type 17 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG17	DEBGRZ_G3
dG3_ALG18	grazing of algae type 18 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG18	DEBGRZ_G3
dG3_ALG19	grazing of algae type 19 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG19	DEBGRZ_G3
dG3_ALG20	grazing of algae type 20 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG20	DEBGRZ_G3
dG3_ALG21	grazing of algae type 21 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG21	DEBGRZ_G3
dG3_ALG22	grazing of algae type 22 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG22	DEBGRZ_G3
dG3_ALG23	grazing of algae type 23 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG23	DEBGRZ_G3
dG3_ALG24	grazing of algae type 24 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG24	DEBGRZ_G3
dG3_ALG25	grazing of algae type 25 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG25	DEBGRZ_G3
dG3_ALG26	grazing of algae type 26 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG26	DEBGRZ_G3
dG3_ALG27	grazing of algae type 27 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG27	DEBGRZ_G3
dG3_ALG28	grazing of algae type 28 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG28	DEBGRZ_G3
dG3_ALG29	grazing of algae type 29 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG29	DEBGRZ_G3
dG3_ALG30	grazing of algae type 30 by DEB Grazer3	gC/m ³ /d	-1.00	BLOOMALG30	DEBGRZ_G3
dG3_F1	grazing of dummy food 1 by DEB Grazer3	gC/m ³ /d	-1.00	DF	DEBGRZ_G3
dG3_F2	grazing of dummy food 2 by DEB Grazer3	gC/m ³ /d	-1.00	F2	DEBGRZ_G3
dG3_F3	grazing of dummy food 3 by DEB Grazer3	gC/m ³ /d	-1.00	F3	DEBGRZ_G3
dG3_F4	grazing of dummy food 4 by DEB Grazer3	gC/m ³ /d	-1.00	F4	DEBGRZ_G3
dG3_F5	grazing of dummy food 5 by DEB Grazer3	gC/m ³ /d	-1.00	F5	DEBGRZ_G3
dG3_F6	grazing of dummy food 6 by DEB Grazer3	gC/m ³ /d	-1.00	F6	DEBGRZ_G3
dG3_F7	grazing of dummy food 7 by DEB Grazer3	gC/m ³ /d	-1.00	F7	DEBGRZ_G3
dG3_F8	grazing of dummy food 8 by DEB Grazer3	gC/m ³ /d	-1.00	F8	DEBGRZ_G3
dG4_MortS1	mortality flux of DEB Grazer4 to DetCS1	gC/m ³ /d	1.00	DetCS1	DEBGRZ_G4
dG4_NMrtS1	mortality flux of DEB Grazer4 to DetNS1	gN/m ³ /d	1.00	DetNS1	DEBGRZ_G4
dG4_PMrtS1	mortality flux of DEB Grazer4 to DetPS1	gP/m ³ /d	1.00	DetPS1	DEBGRZ_G4

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dG4_Mor	mortality flux of DEB Grazer4	gC/m ³ /d	1.00	POC1	DEBGRZ_G4
dG4_NMrtd	mortality flux of DEB Grazer4	gN/m ³ /d	1.00	PON1	DEBGRZ_G4
dG4_PMrtd	mortality flux of DEB Grazer4	gP/m ³ /d	1.00	POP1	DEBGRZ_G4
dG4_Resp	respiration flux of DEB Grazer4	gC/m ³ /d	-2.67	OXY	DEBGRZ_G4
dG4_Resp	respiration flux of DEB Grazer4	gC/m ³ /d	1.00	TIC	DEBGRZ_G4
dG4_NRes	respiration flux of DEB Grazer4	gN/m ³ /d	1.00	NH4	DEBGRZ_G4
dG4_NRes	respiration flux of DEB Grazer4	gN/m ³ /d	-0.07	H+	DEBGRZ_G4
dG4_NRes	respiration flux of DEB Grazer4	gN/m ³ /d	4.36	ALKA	DEBGRZ_G4
dG4_PRes	respiration flux of DEB Grazer4	gP/m ³ /d	1.00	PO4	DEBGRZ_G4
dG4_PRes	respiration flux of DEB Grazer4	gP/m ³ /d	0.10	H+	DEBGRZ_G4
dG4_PRes	respiration flux of DEB Grazer4	gP/m ³ /d	-1.97	ALKA	DEBGRZ_G4
dG4_Def	defecation flux of DEB Grazer4	gC/m ³ /d	1.00	POC1	DEBGRZ_G4
dG4_NDef	defecation flux N of DEB Grazer4	gN/m ³ /d	1.00	PON1	DEBGRZ_G4
dG4_PDef	defecation flux P of DEB Grazer4	gP/m ³ /d	1.00	POP1	DEBGRZ_G4
dG4_SiDef	defecation flux Si of DEB Grazer4	gSi/m ³ /d	1.00	Opal	DEBGRZ_G4
dG4_SpWDet	spawning flux of DEB Grazer4 to DetC	gC/m ³ /d	1.00	POC1	DEBGRZ_G4
dG4_SpWDet	spawning flux of DEB Grazer4 to DetC	gC/m ³ /d	-1.00	Grazer4_R	DEBGRZ_G4
dG4_NSpDet	spawning flux of DEB Grazer4 to DetN	gN/m ³ /d	1.00	PON1	DEBGRZ_G4
dG4_PSpDet	spawning flux of DEB Grazer4 to DetP	gP/m ³ /d	1.00	POP1	DEBGRZ_G4
dG4_Vgr	growth flux struct biomass DEB Grazer4	gC/m ³ /d	1.00	Grazer4_V	DEBGRZ_G4
dG4_Vmor	mortality flux struct biomass DEB Grazer4	gC/m ³ /d	-1.00	Grazer4_V	DEBGRZ_G4
dG4_Ea	anabolic flux energy reserves DEB Grazer4	gC/m ³ /d	1.00	Grazer4_E	DEBGRZ_G4
dG4_Ec	catabolic flux enrgy reserves DEB Grazer4	gC/m ³ /d	-1.00	Grazer4_E	DEBGRZ_G4
dG4_Emor	mortality flux enrgy reserves DEB Grazer4	gC/m ³ /d	-1.00	Grazer4_E	DEBGRZ_G4
dG4_Rgr	growth flux gonadal tissue DEB Grazer4	gC/m ³ /d	1.00	Grazer4_R	DEBGRZ_G4
dG4_Rmor	mortality flux gonadal tissue DEB Grazer4	gC/m ³ /d	-1.00	Grazer4_R	DEBGRZ_G4
dG4_Nind	increase dens by growth V1morphs only	cm ³ /(m ² d)	1.00	Grazer4_N	DEBGRZ_G4
dG4_Mort	mortality and harvesting of DEB Grazer4	gC/(m ² d)	-1.00	Grazer4_N	DEBGRZ_G4
dG4_POC1	grazing of POC1 by DEB Grazer4	gC/m ³ /d	-1.00	POC1	DEBGRZ_G4
dG4_DetC	grazing of DetC by DEB Grazer4	gC/m ³ /d	-1.00	DetC	DEBGRZ_G4
dG4_DCS1	grazing of DetCS1 by DEB Grazer4	gC/m ³ /d	-1.00	DetCS1	DEBGRZ_G4
dG4_PON1	grazing of PON by DEB Grazer4	gC/m ³ /d	-1.00	PON1	DEBGRZ_G4
dG4_DetN	grazing of DetN by DEB Grazer4	gC/m ³ /d	-1.00	DetN	DEBGRZ_G4
dG4_DNS1	grazing of DetNS1 by DEB Grazer4	gC/m ³ /d	-1.00	DetNS1	DEBGRZ_G4
dG4_POP	grazing of POP by DEB Grazer4	gC/m ³ /d	-1.00	POP1	DEBGRZ_G4
dG4_DetP	grazing of DetP by DEB Grazer4	gC/m ³ /d	-1.00	DetP	DEBGRZ_G4
dG4_DPS1	grazing of DetPS1 by DEB Grazer4	gC/m ³ /d	-1.00	DetPS1	DEBGRZ_G4
dG4_POSi	grazing of POSi by DEB Grazer4	gC/m ³ /d	-1.00	Opal	DEBGRZ_G4
dG4_DSi	grazing of DetSi by DEB Grazer4	gC/m ³ /d	-1.00	DetSi	DEBGRZ_G4
dG4_DSiS	grazing of DetSiS1 by DEB Grazer4	gC/m ³ /d	-1.00	DetSiS1	DEBGRZ_G4
dG4_Grn	grazing of Greens by DEB Grazer4	gC/m ³ /d	-1.00	GREEN	DEBGRZ_G4
dG4_Diat	grazing of Diatoms by DEB Grazer4	gC/m ³ /d	-1.00	DIAT	DEBGRZ_G4
dG4_ALG01	grazing of algae type 01 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG01	DEBGRZ_G4
dG4_ALG02	grazing of algae type 02 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG02	DEBGRZ_G4
dG4_ALG03	grazing of algae type 03 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG03	DEBGRZ_G4
dG4_ALG04	grazing of algae type 04 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG04	DEBGRZ_G4
dG4_ALG05	grazing of algae type 05 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG05	DEBGRZ_G4
dG4_ALG06	grazing of algae type 06 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG06	DEBGRZ_G4
dG4_ALG07	grazing of algae type 07 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG07	DEBGRZ_G4
dG4_ALG08	grazing of algae type 08 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG08	DEBGRZ_G4
dG4_ALG09	grazing of algae type 09 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG09	DEBGRZ_G4

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dG4_ALG10	grazing of algae type 10 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG10	DEBGRZ_G4
dG4_ALG11	grazing of algae type 11 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG11	DEBGRZ_G4
dG4_ALG12	grazing of algae type 12 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG12	DEBGRZ_G4
dG4_ALG13	grazing of algae type 13 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG13	DEBGRZ_G4
dG4_ALG14	grazing of algae type 14 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG14	DEBGRZ_G4
dG4_ALG15	grazing of algae type 15 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG15	DEBGRZ_G4
dG4_ALG16	grazing of algae type 16 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG16	DEBGRZ_G4
dG4_ALG17	grazing of algae type 17 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG17	DEBGRZ_G4
dG4_ALG18	grazing of algae type 18 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG18	DEBGRZ_G4
dG4_ALG19	grazing of algae type 19 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG19	DEBGRZ_G4
dG4_ALG20	grazing of algae type 20 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG20	DEBGRZ_G4
dG4_ALG21	grazing of algae type 21 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG21	DEBGRZ_G4
dG4_ALG22	grazing of algae type 22 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG22	DEBGRZ_G4
dG4_ALG23	grazing of algae type 23 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG23	DEBGRZ_G4
dG4_ALG24	grazing of algae type 24 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG24	DEBGRZ_G4
dG4_ALG25	grazing of algae type 25 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG25	DEBGRZ_G4
dG4_ALG26	grazing of algae type 26 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG26	DEBGRZ_G4
dG4_ALG27	grazing of algae type 27 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG27	DEBGRZ_G4
dG4_ALG28	grazing of algae type 28 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG28	DEBGRZ_G4
dG4_ALG29	grazing of algae type 29 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG29	DEBGRZ_G4
dG4_ALG30	grazing of algae type 30 by DEB Grazer4	gC/m ³ /d	-1.00	BLOOMALG30	DEBGRZ_G4
dG4_F1	grazing of dummy food 1 by DEB Grazer4	gC/m ³ /d	-1.00	DF	DEBGRZ_G4
dG4_F2	grazing of dummy food 2 by DEB Grazer4	gC/m ³ /d	-1.00	F2	DEBGRZ_G4
dG4_F3	grazing of dummy food 3 by DEB Grazer4	gC/m ³ /d	-1.00	F3	DEBGRZ_G4
dG4_F4	grazing of dummy food 4 by DEB Grazer4	gC/m ³ /d	-1.00	F4	DEBGRZ_G4
dG4_F5	grazing of dummy food 5 by DEB Grazer4	gC/m ³ /d	-1.00	F5	DEBGRZ_G4
dG4_F6	grazing of dummy food 6 by DEB Grazer4	gC/m ³ /d	-1.00	F6	DEBGRZ_G4
dG4_F7	grazing of dummy food 7 by DEB Grazer4	gC/m ³ /d	-1.00	F7	DEBGRZ_G4
dG4_F8	grazing of dummy food 8 by DEB Grazer4	gC/m ³ /d	-1.00	F8	DEBGRZ_G4
dG5_MortS1	mortality flux of DEB Grazer5 to DetCS1	gC/m ³ /d	1.00	DetCS1	DEBGRZ_G5
dG5_NMrtS1	mortality flux of DEB Grazer5 to DetNS1	gN/m ³ /d	1.00	DetNS1	DEBGRZ_G5
dG5_PMrtS1	mortality flux of DEB Grazer5 to DetPS1	gP/m ³ /d	1.00	DetPS1	DEBGRZ_G5
dG5_Mor	mortality flux of DEB Grazer5	gC/m ³ /d	1.00	POC1	DEBGRZ_G5
dG5_NMrt	mortality flux of DEB Grazer5	gN/m ³ /d	1.00	PON1	DEBGRZ_G5
dG5_PMrt	mortality flux of DEB Grazer5	gP/m ³ /d	1.00	POP1	DEBGRZ_G5
dG5_Resp	respiration flux of DEB Grazer5	gC/m ³ /d	-2.67	OXY	DEBGRZ_G5
dG5_Resp	respiration flux of DEB Grazer5	gC/m ³ /d	1.00	TIC	DEBGRZ_G5
dG5_NRes	respiration flux of DEB Grazer5	gN/m ³ /d	1.00	NH4	DEBGRZ_G5

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dG5_NRes	respiration flux of DEB Grazer5	gN/m ³ /d	-0.07	H+	DEBGRZ_G5
dG5_NRes	respiration flux of DEB Grazer5	gN/m ³ /d	4.36	ALKA	DEBGRZ_G5
dG5_PRes	respiration flux of DEB Grazer5	gP/m ³ /d	1.00	PO4	DEBGRZ_G5
dG5_PRes	respiration flux of DEB Grazer5	gP/m ³ /d	0.10	H+	DEBGRZ_G5
dG5_PRes	respiration flux of DEB Grazer5	gP/m ³ /d	-1.97	ALKA	DEBGRZ_G5
dG5_Def	defecation flux of DEB Grazer5	gC/m ³ /d	1.00	POC1	DEBGRZ_G5
dG5_NDef	defecation flux N of DEB Grazer5	gN/m ³ /d	1.00	PON1	DEBGRZ_G5
dG5_PDef	defecation flux P of DEB Grazer5	gP/m ³ /d	1.00	POP1	DEBGRZ_G5
dG5_SiDef	defecation flux Si of DEB Grazer5	gSi/m ³ /d	1.00	Opal	DEBGRZ_G5
dG5_SpwDet	spawning flux of DEB Grazer5 to DetC	gC/m ³ /d	1.00	POC1	DEBGRZ_G5
dG5_SpwDet	spawning flux of DEB Grazer5 to DetC	gC/m ³ /d	-1.00	Grazer5_R	DEBGRZ_G5
dG5_NSpDet	spawning flux of DEB Grazer5 to DetN	gN/m ³ /d	1.00	PON1	DEBGRZ_G5
dG5_PSpDet	spawning flux of DEB Grazer5 to DetP	gP/m ³ /d	1.00	POP1	DEBGRZ_G5
dG5_Vgr	growth flux struct biomass DEB Grazer5	gC/m ³ /d	1.00	Grazer5_V	DEBGRZ_G5
dG5_Vmor	mortality flux struct biomass DEB Grazer5	gC/m ³ /d	-1.00	Grazer5_V	DEBGRZ_G5
dG5_Ea	anabolic flux energy reserves DEB Grazer5	gC/m ³ /d	1.00	Grazer5_E	DEBGRZ_G5
dG5_Ec	catabolic flux enrgy reserves DEB Grazer5	gC/m ³ /d	-1.00	Grazer5_E	DEBGRZ_G5
dG5_Emor	mortality flux enrgy reserves DEB Grazer5	gC/m ³ /d	-1.00	Grazer5_E	DEBGRZ_G5
dG5_Rgr	growth flux gonadal tissue DEB Grazer5	gC/m ³ /d	1.00	Grazer5_R	DEBGRZ_G5
dG5_Rmor	mortality flux gonadal tissue DEB Grazer5	gC/m ³ /d	-1.00	Grazer5_R	DEBGRZ_G5
dG5_Nind	increase dens by growth V1morphs only	cm ³ /(m ² d)	1.00	Grazer5_N	DEBGRZ_G5
dG5_Mort	mortality and harvesting of DEB Grazer5	gC/(m ² d)	-1.00	Grazer5_N	DEBGRZ_G5
dG5_POC1	grazing of POC1 by DEB Grazer5	gC/m ³ /d	-1.00	POC1	DEBGRZ_G5
dG5_DetC	grazing of DetC by DEB Grazer5	gC/m ³ /d	-1.00	DetC	DEBGRZ_G5
dG5_DCS1	grazing of DetCS1 by DEB Grazer5	gC/m ³ /d	-1.00	DetCS1	DEBGRZ_G5
dG5_PON1	grazing of PON by DEB Grazer5	gC/m ³ /d	-1.00	PON1	DEBGRZ_G5
dG5_DetN	grazing of DetN by DEB Grazer5	gC/m ³ /d	-1.00	DetN	DEBGRZ_G5
dG5_DNS1	grazing of DetNS1 by DEB Grazer5	gC/m ³ /d	-1.00	DetNS1	DEBGRZ_G5
dG5_POP	grazing of POP by DEB Grazer5	gC/m ³ /d	-1.00	POP1	DEBGRZ_G5
dG5_DetP	grazing of DetP by DEB Grazer5	gC/m ³ /d	-1.00	DetP	DEBGRZ_G5
dG5_DPS1	grazing of DetPS1 by DEB Grazer5	gC/m ³ /d	-1.00	DetPS1	DEBGRZ_G5
dG5_POSi	grazing of POSi by DEB Grazer5	gC/m ³ /d	-1.00	Opal	DEBGRZ_G5
dG5_DSi	grazing of DetSi by DEB Grazer5	gC/m ³ /d	-1.00	DetSi	DEBGRZ_G5
dG5_DSiS	grazing of DetSiS1 by DEB Grazer5	gC/m ³ /d	-1.00	DetSiS1	DEBGRZ_G5
dG5_Grn	grazing of Greens by DEB Grazer5	gC/m ³ /d	-1.00	GREEN	DEBGRZ_G5
dG5_Diat	grazing of Diatoms by DEB Grazer5	gC/m ³ /d	-1.00	DIAT	DEBGRZ_G5
dG5_ALG01	grazing of algae type 01 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG01	DEBGRZ_G5
dG5_ALG02	grazing of algae type 02 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG02	DEBGRZ_G5
dG5_ALG03	grazing of algae type 03 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG03	DEBGRZ_G5
dG5_ALG04	grazing of algae type 04 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG04	DEBGRZ_G5
dG5_ALG05	grazing of algae type 05 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG05	DEBGRZ_G5
dG5_ALG06	grazing of algae type 06 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG06	DEBGRZ_G5
dG5_ALG07	grazing of algae type 07 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG07	DEBGRZ_G5
dG5_ALG08	grazing of algae type 08 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG08	DEBGRZ_G5
dG5_ALG09	grazing of algae type 09 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG09	DEBGRZ_G5
dG5_ALG10	grazing of algae type 10 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG10	DEBGRZ_G5
dG5_ALG11	grazing of algae type 11 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG11	DEBGRZ_G5
dG5_ALG12	grazing of algae type 12 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG12	DEBGRZ_G5

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Table 5.1 – continued from previous page

Flux	Description	Unit	Stoch.	Sub.	Process
dG5_ALG13	grazing of algae type 13 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG13	DEBGRZ_G5
dG5_ALG14	grazing of algae type 14 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG14	DEBGRZ_G5
dG5_ALG15	grazing of algae type 15 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG15	DEBGRZ_G5
dG5_ALG16	grazing of algae type 16 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG16	DEBGRZ_G5
dG5_ALG17	grazing of algae type 17 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG17	DEBGRZ_G5
dG5_ALG18	grazing of algae type 18 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG18	DEBGRZ_G5
dG5_ALG19	grazing of algae type 19 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG19	DEBGRZ_G5
dG5_ALG20	grazing of algae type 20 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG20	DEBGRZ_G5
dG5_ALG21	grazing of algae type 21 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG21	DEBGRZ_G5
dG5_ALG22	grazing of algae type 22 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG22	DEBGRZ_G5
dG5_ALG23	grazing of algae type 23 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG23	DEBGRZ_G5
dG5_ALG24	grazing of algae type 24 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG24	DEBGRZ_G5
dG5_ALG25	grazing of algae type 25 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG25	DEBGRZ_G5
dG5_ALG26	grazing of algae type 26 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG26	DEBGRZ_G5
dG5_ALG27	grazing of algae type 27 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG27	DEBGRZ_G5
dG5_ALG28	grazing of algae type 28 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG28	DEBGRZ_G5
dG5_ALG29	grazing of algae type 29 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG29	DEBGRZ_G5
dG5_ALG30	grazing of algae type 30 by DEB Grazer5	gC/m ³ /d	-1.00	BLOOMALG30	DEBGRZ_G5
dG5_F1	grazing of dummy food 1 by DEB Grazer5	gC/m ³ /d	-1.00	DF	DEBGRZ_G5
dG5_F2	grazing of dummy food 2 by DEB Grazer5	gC/m ³ /d	-1.00	F2	DEBGRZ_G5
dG5_F3	grazing of dummy food 3 by DEB Grazer5	gC/m ³ /d	-1.00	F3	DEBGRZ_G5
dG5_F4	grazing of dummy food 4 by DEB Grazer5	gC/m ³ /d	-1.00	F4	DEBGRZ_G5
dG5_F5	grazing of dummy food 5 by DEB Grazer5	gC/m ³ /d	-1.00	F5	DEBGRZ_G5
dG5_F6	grazing of dummy food 6 by DEB Grazer5	gC/m ³ /d	-1.00	F6	DEBGRZ_G5
dG5_F7	grazing of dummy food 7 by DEB Grazer5	gC/m ³ /d	-1.00	F7	DEBGRZ_G5
dG5_F8	grazing of dummy food 8 by DEB Grazer5	gC/m ³ /d	-1.00	F8	DEBGRZ_G5
drdg*IM1S1	dredging IM1S1	g/m ³ /d	-1.00	IM1S1	Dredge
drdg*IM2S1	dredging IM2S1	g/m ³ /d	-1.00	IM2S1	Dredge
drdg*IM3S1	dredging IM3S1	g/m ³ /d	-1.00	IM3S1	Dredge
drdg*IM1S2	dredging IM1S2	g/m ³ /d	-1.00	IM1S2	Dredge
drdg*IM2S2	dredging IM2S2	g/m ³ /d	-1.00	IM2S2	Dredge
drdg*IM3S2	dredging IM3S2	g/m ³ /d	-1.00	IM3S2	Dredge
dump*IM1	dumping IM1	g/m ³ /d	1.00	IM1	Dredge
dump*IM2	dumping IM2	g/m ³ /d	1.00	IM2	Dredge
dump*IM3	dumping IM3	g/m ³ /d	1.00	IM3	Dredge
dFlocIM1	flocculation or break-up flux IM1	g/m ³ /d	1.00	IM1	IM_Floceq
dFlocIM2	flocculation or break-up flux IM2	g/m ³ /d	1.00	IM2	IM_Floceq
dFlocIM3	flocculation or break-up flux IM3	g/m ³ /d	1.00	IM3	IM_Floceq

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6 Listing of the modelled velocities

Table 6.1: Listing of the modelled velocities

Velocity	Description	Unit	Stoch.	Sub.	Process
VxSedIm1	sedimentation velocity IM1	m/s	1.00	IM1	VxSedIM1
VxSedIM2	sedimentation velocity IM2	m/s	1.00	IM2	VxSedIM2
VxSedIM3	sedimentation velocity IM3	m/s	1.00	IM3	VxSedIM3
VxSedDiat	sedimentation velocity Diatoms	m/s	1.00	Diat	VxSedDiat
VxSedGreen	sedimentation velocity Greens	m/s	1.00	Green	VxSedGreen
VxSedAlg01	sedimentation velocity algae type 01	m/s	1.00	BLOOMALG01	VxSedAlg01
VxSedAlg02	sedimentation velocity algae type 02	m/s	1.00	BLOOMALG02	VxSedAlg02
VxSedAlg03	sedimentation velocity algae type 03	m/s	1.00	BLOOMALG03	VxSedAlg03
VxSedAlg04	sedimentation velocity algae type 04	m/s	1.00	BLOOMALG04	VxSedAlg04
VxSedAlg05	sedimentation velocity algae type 05	m/s	1.00	BLOOMALG05	VxSedAlg05
VxSedAlg06	sedimentation velocity algae type 06	m/s	1.00	BLOOMALG06	VxSedAlg06
VxSedAlg07	sedimentation velocity algae type 07	m/s	1.00	BLOOMALG07	VxSedAlg07
VxSedAlg08	sedimentation velocity algae type 08	m/s	1.00	BLOOMALG08	VxSedAlg08
VxSedAlg09	sedimentation velocity algae type 09	m/s	1.00	BLOOMALG09	VxSedAlg09
VxSedAlg10	sedimentation velocity algae type 10	m/s	1.00	BLOOMALG10	VxSedAlg10
VxSedAlg11	sedimentation velocity algae type 11	m/s	1.00	BLOOMALG11	VxSedAlg11
VxSedAlg12	sedimentation velocity algae type 12	m/s	1.00	BLOOMALG12	VxSedAlg12
VxSedAlg13	sedimentation velocity algae type 13	m/s	1.00	BLOOMALG13	VxSedAlg13
VxSedAlg14	sedimentation velocity algae type 14	m/s	1.00	BLOOMALG14	VxSedAlg14
VxSedAlg15	sedimentation velocity algae type 15	m/s	1.00	BLOOMALG15	VxSedAlg15
VxSedAlg16	sedimentation velocity algae type 16	m/s	1.00	BLOOMALG16	VxSedAlg16
VxSedAlg17	sedimentation velocity algae type 17	m/s	1.00	BLOOMALG17	VxSedAlg17
VxSedAlg18	sedimentation velocity algae type 18	m/s	1.00	BLOOMALG18	VxSedAlg18
VxSedAlg19	sedimentation velocity algae type 19	m/s	1.00	BLOOMALG19	VxSedAlg19
VxSedAlg20	sedimentation velocity algae type 20	m/s	1.00	BLOOMALG20	VxSedAlg20
VxSedAlg21	sedimentation velocity algae type 21	m/s	1.00	BLOOMALG21	VxSedAlg21
VxSedAlg22	sedimentation velocity algae type 22	m/s	1.00	BLOOMALG22	VxSedAlg22
VxSedAlg23	sedimentation velocity algae type 23	m/s	1.00	BLOOMALG23	VxSedAlg23
VxSedAlg24	sedimentation velocity algae type 24	m/s	1.00	BLOOMALG24	VxSedAlg24
VxSedAlg25	sedimentation velocity algae type 25	m/s	1.00	BLOOMALG25	VxSedAlg25
VxSedAlg26	sedimentation velocity algae type 26	m/s	1.00	BLOOMALG26	VxSedAlg26
VxSedAlg27	sedimentation velocity algae type 27	m/s	1.00	BLOOMALG27	VxSedAlg27
VxSedAlg28	sedimentation velocity algae type 28	m/s	1.00	BLOOMALG28	VxSedAlg28
VxSedAlg29	sedimentation velocity algae type 29	m/s	1.00	BLOOMALG29	VxSedAlg29
VxSedAlg30	sedimentation velocity algae type 30	m/s	1.00	BLOOMALG30	VxSedAlg30
VxSedBOD5	sedimentation velocity CBOD5	m/s	1.00	CBOD5	VxSedBOD5
VxSedBOD52	sedimentation velocity CBOD5_2	m/s	1.00	CBOD5_2	VxSedBOD52
VxSedBOD53	sedimentation velocity CBOD5_3	m/s	1.00	CBOD5_3	VxSedBOD53
VxSedBODu	sedimentation velocity CBODu	m/s	1.00	CBODu	VxSedBODu
VxSedBODu2	sedimentation velocity CBODu_2	m/s	1.00	CBODu_2	VxSedBODu2
VxSedCODCr	sedimentation velocity COD_Cr	m/s	1.00	COD_Cr	VxSedCODCr
VxSedCODMn	sedimentation velocity COD_Mn	m/s	1.00	COD_Mn	VxSedCODMn
VxSedNBOD5	sedimentation velocity NBOD5	m/s	1.00	NBOD5	VxSedNBOD5
VxSedNBODu	sedimentation velocity NBODu	m/s	1.00	NBODu	VxSedNBODu
VxSedMPB1	sedimentation velocity MPB1peli	m/s	1.00	MPB1peli	VxSedMPB1
VxSedMPB2	sedimentation velocity MPB2psam	m/s	1.00	MPB2psam	VxSedMPB2
VxSedOpal	sedimentation velocity Opal	m/s	1.00	Opal	VxSedOpal
VxSedPOC1	sedimentation velocity POC1	m/s	1.00	POC1	VxSedPOC1
VxSedPOC1	sedimentation velocity POC1	m/s	1.00	PON1	VxSedPOC1
VxSedPOC1	sedimentation velocity POC1	m/s	1.00	POP1	VxSedPOC1
VxSedPOC2	sedimentation velocity POC2	m/s	1.00	POC2	VxSedPOC2
VxSedPOC2	sedimentation velocity POC2	m/s	1.00	PON2	VxSedPOC2
VxSedPOC2	sedimentation velocity POC2	m/s	1.00	POP2	VxSedPOC2
VxSedPOC3	sedimentation velocity POC3	m/s	1.00	POC3	VxSedPOC3
VxSedPOC3	sedimentation velocity POC3	m/s	1.00	PON3	VxSedPOC3
VxSedPOC3	sedimentation velocity POC3	m/s	1.00	POP3	VxSedPOC3
VxSedPOC4	sedimentation velocity POC4	m/s	1.00	POC4	VxSedPOC4
VxSedPOC4	sedimentation velocity POC4	m/s	1.00	PON4	VxSedPOC4
VxSedPOC4	sedimentation velocity POC4	m/s	1.00	POP4	VxSedPOC4
VxSedVIVP	sedimentation velocity VIVP	m/s	1.00	VIVP	VxSedVIVP
VxSedAPAT	sedimentation velocity APATP	m/s	1.00	APATP	VxSedAPAT
VxSedFe3pa	sedimentation velocity Fe3pa	m/s	1.00	Fellpa	VxSedFe3pa
VxSedFe3pc	sedimentation velocity Fe3pc	m/s	1.00	Fellpc	VxSedFe3pc
VxSedFeS	sedimentation velocity FeS	m/s	1.00	FeS	VxSedFeS
VxSedFeS2	sedimentation velocity FeS2	m/s	1.00	FeS2	VxSedFeS2
VxSedFeCO3	sedimentation velocity FeCO3	m/s	1.00	FeCO3	VxSedFeCO3
VxSedAAP	sedimentation velocity AAP	m/s	1.00	AAP	VxSedAAP
VxResVol	volume change velocity vector resuspension	m/s	1.00	Bulkvolume	VxResVol

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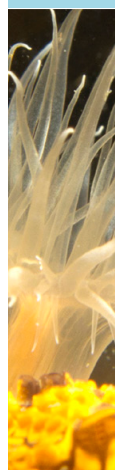


Table 6.1 – continued from previous page

Velocity	Description	Unit	Stoch.	Sub.	Process
VxSedVol	velocity vector for volume change sedim.	m/s	1.00	Bulkvolume	VxSedVol
VxBurVol	velocity vector for volume change burial	m/s	1.00	Bulkvolume	VxBurVol
VxSepVol	velocity vector for volume change seepage	m/s	1.00	Bulkvolume	VxSepVol
VxUpwIM1	total upward transport in sediment	m/s	1.00	IM1	VxUpwIM1
VxDownIM1	total downward transport in sediment	m/s	1.00	IM1	VxDownIM1
VxUpwOXY	total upward transport in sediment	m/s	1.00	OXY	VxUpwOXY
VxDownOXY	total downward transport in sediment	m/s	1.00	OXY	VxDownOXY
VxUpwBaP	total upward transport in sediment	m/s	1.00	BaP	VxUpwBaP
VxDownBaP	total downward transport in sediment	m/s	1.00	BaP	VxDownBaP
VxUpwPOC1	total upward transport in sediment	m/s	1.00	POC1	VxUpwPOC1
VxDownPOC1	total downward transport in sediment	m/s	1.00	POC1	VxDownPOC1
VxUpwPOC2	total upward transport in sediment	m/s	1.00	POC2	VxUpwPOC2
VxDownPOC2	total downward transport in sediment	m/s	1.00	POC2	VxDownPOC2
VxUpwPOC3	total upward transport in sediment	m/s	1.00	POC3	VxUpwPOC3
VxDownPOC3	total downward transport in sediment	m/s	1.00	POC3	VxDownPOC3
VxUpwPON1	total upward transport in sediment	m/s	1.00	PON1	VxUpwPON1
VxDownPON1	total downward transport in sediment	m/s	1.00	PON1	VxDownPON1
VxUpwPON2	total upward transport in sediment	m/s	1.00	PON2	VxUpwPON2
VxDownPON2	total downward transport in sediment	m/s	1.00	PON2	VxDownPON2
VxUpwPON3	total upward transport in sediment	m/s	1.00	PON3	VxUpwPON3
VxDownPON3	total downward transport in sediment	m/s	1.00	PON3	VxDownPON3
VxUpwPOP1	total upward transport in sediment	m/s	1.00	POP1	VxUpwPOP1
VxDownPOP1	total downward transport in sediment	m/s	1.00	POP1	VxDownPOP1
VxUpwPOP2	total upward transport in sediment	m/s	1.00	POP2	VxUpwPOP2
VxDownPOP2	total downward transport in sediment	m/s	1.00	POP2	VxDownPOP2
VxUpwPOP3	total upward transport in sediment	m/s	1.00	POP3	VxUpwPOP3
VxDownPOP3	total downward transport in sediment	m/s	1.00	POP3	VxDownPOP3
VxUpwPOC4	total upward transport in sediment	m/s	1.00	POC4	VxUpwPOC4
VxDownPOC4	total downward transport in sediment	m/s	1.00	POC4	VxDownPOC4
VxUpwPON4	total upward transport in sediment	m/s	1.00	PON4	VxUpwPON4
VxDownPON4	total downward transport in sediment	m/s	1.00	PON4	VxDownPON4
VxUpwPOP4	total upward transport in sediment	m/s	1.00	POP4	VxUpwPOP4
VxDownPOP4	total downward transport in sediment	m/s	1.00	POP4	VxDownPOP4
VxUpwPOS1	total upward transport in sediment	m/s	1.00	POS1	VxUpwPOS1
VxDownPOS1	total downward transport in sediment	m/s	1.00	POS1	VxDownPOS1
VxUpwPOS2	total upward transport in sediment	m/s	1.00	POS2	VxUpwPOS2
VxDownPOS2	total downward transport in sediment	m/s	1.00	POS2	VxDownPOS2
VxUpwPOS3	total upward transport in sediment	m/s	1.00	POS3	VxUpwPOS3
VxDownPOS3	total downward transport in sediment	m/s	1.00	POS3	VxDownPOS3
VxUpwPOS4	total upward transport in sediment	m/s	1.00	POS4	VxUpwPOS4
VxDownPOS4	total downward transport in sediment	m/s	1.00	POS4	VxDownPOS4
VxUpwDOC	total upward transport in sediment	m/s	1.00	DOC	VxUpwDOC
VxDownDOC	total downward transport in sediment	m/s	1.00	DOC	VxDownDOC
VxUpwDON	total upward transport in sediment	m/s	1.00	DON	VxUpwDON
VxDownDON	total downward transport in sediment	m/s	1.00	DON	VxDownDON
VxUpwDOP	total upward transport in sediment	m/s	1.00	DOP	VxUpwDOP
VxDownDOP	total downward transport in sediment	m/s	1.00	DOP	VxDownDOP
VxUpwDOS	total upward transport in sediment	m/s	1.00	DOS	VxUpwDOS
VxDownDOS	total downward transport in sediment	m/s	1.00	DOS	VxDownDOS
VxUpwNH4	total upward transport in sediment	m/s	1.00	NH4	VxUpwNH4
VxDownNH4	total downward transport in sediment	m/s	1.00	NH4	VxDownNH4
VxUpwPO4	total upward transport in sediment	m/s	1.00	PO4	VxUpwPO4
VxDownPO4	total downward transport in sediment	m/s	1.00	PO4	VxDownPO4
VxUpwNO3	total upward transport in sediment	m/s	1.00	NO3	VxUpwNO3
VxDownNO3	total downward transport in sediment	m/s	1.00	NO3	VxDownNO3
VxUpwSO4	total upward transport in sediment	m/s	1.00	SO4	VxUpwSO4
VxDownSO4	total downward transport in sediment	m/s	1.00	SO4	VxDownSO4
VxUpwCH4	total upward transport in sediment	m/s	1.00	CH4	VxUpwCH4
VxDownCH4	total downward transport in sediment	m/s	1.00	CH4	VxDownCH4
VxUpwSUD	total upward transport in sediment	m/s	1.00	SUD	VxUpwSUD
VxDownSUD	total downward transport in sediment	m/s	1.00	SUD	VxDownSUD
VxUpwSUP	total upward transport in sediment	m/s	1.00	SUP	VxUpwSUP
VxDownSUP	total downward transport in sediment	m/s	1.00	SUP	VxDownSUP
VxUpwIM2	total upward transport in sediment	m/s	1.00	IM2	VxUpwIM2
VxDownIM2	total downward transport in sediment	m/s	1.00	IM2	VxDownIM2
VxUpwIM3	total upward transport in sediment	m/s	1.00	IM3	VxUpwIM3
VxDownIM3	total downward transport in sediment	m/s	1.00	IM3	VxDownIM3
VxUpwCl	total upward transport in sediment	m/s	1.00	Cl	VxUpwCl
VxDownCl	total downward transport in sediment	m/s	1.00	Cl	VxDownCl
VxUpwSal	total upward transport in sediment	m/s	1.00	Salinity	VxUpwSal
VxDownSal	total downward transport in sediment	m/s	1.00	Salinity	VxDownSal

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Table 6.1 – continued from previous page

Velocity	Description	Unit	Stoch.	Sub.	Process
VxUpwAAP	total upward transport in sediment	m/s	1.00	AAP	VxUpwAAP
VxDwnAAP	total downward transport in sediment	m/s	1.00	AAP	VxDwnAAP
VxUpwSi	total upward transport in sediment	m/s	1.00	Si	VxUpwSi
VxDwnSi	total downward transport in sediment	m/s	1.00	Si	VxDwnSi
VxUpwVIVP	total upward transport in sediment	m/s	1.00	VIVP	VxUpwVIVP
VxDwnVIVP	total downward transport in sediment	m/s	1.00	VIVP	VxDwnVIVP
VxUpwAPATP	total upward transport in sediment APATP	m/s	1.00	APATP	VxUpwAPATP
VxDwnAPAT	total downward transport in sediment APATP	m/s	1.00	APATP	VxDwnAPAT
VxUpwFe3pa	total upward transport in sediment	m/s	1.00	FellIpa	VxUpwFe3pa
VxDwnFe3pa	total downward transport in sediment	m/s	1.00	FellIpa	VxDwnFe3pa
VxUpwFe3pc	total upward transport in sediment	m/s	1.00	FellIpc	VxUpwFe3pc
VxDwnFe3pc	total downward transport in sediment	m/s	1.00	FellIpc	VxDwnFe3pc
VxUpwFe3d	total upward transport in sediment	m/s	1.00	FellId	VxUpwFe3d
VxDwnFe3d	total downward transport in sediment	m/s	1.00	FellId	VxDwnFe3d
VxUpwFe2d	total upward transport in sediment	m/s	1.00	FellId	VxUpwFe2d
VxDwnFe2d	total downward transport in sediment	m/s	1.00	FellId	VxDwnFe2d
VxUpwFeS	total upward transport in sediment	m/s	1.00	FeS	VxUpwFeS
VxDwnFeS	total downward transport in sediment	m/s	1.00	FeS	VxDwnFeS
VxUpwFeS2	total upward transport in sediment	m/s	1.00	FeS2	VxUpwFeS2
VxDwnFeS2	total downward transport in sediment	m/s	1.00	FeS2	VxDwnFeS2
VxUpwFeCO3	total upward transport in sediment	m/s	1.00	FeCO3	VxUpwFeCO3
VxDwnFeCO3	total downward transport in sediment	m/s	1.00	FeCO3	VxDwnFeCO3
VxUpwOpal	total upward transport in sediment	m/s	1.00	Opal	VxUpwOpal
VxDwnOpal	total downward transport in sediment	m/s	1.00	Opal	VxDwnOpal
VxUpwTIC	total upward transport in sediment	m/s	1.00	TIC	VxUpwTIC
VxDwnTIC	total downward transport in sediment	m/s	1.00	TIC	VxDwnTIC
VxUpwAlka	total upward transport in sediment	m/s	1.00	Alka	VxUpwAlka
VxDwnAlka	total downward transport in sediment	m/s	1.00	ALka	VxDwnAlka
VxUpwMPB1	total upward transport in sediment	m/s	1.00	MPB1peli	VxUpwMPB1
VxDwnMPB1	total downward transport in sediment	m/s	1.00	MPB1peli	VxDwnMPB1
VxUpwMPB2	total upward transport in sediment	m/s	1.00	MPB2psam	VxUpwMPB2
VxDwnMPB2	total downward transport in sediment	m/s	1.00	MPB2psam	VxDwnMPB2
VxUpwAlg01	total upward transport in sediment	m/s	1.00	BLOOMAlg01	VxUpwAlg01
VxDwnAlg01	total downward transport in sediment	m/s	1.00	BLOOMAlg01	VxDwnAlg01
VxUpwAlg02	total upward transport in sediment	m/s	1.00	BLOOMAlg02	VxUpwAlg02
VxDwnAlg02	total downward transport in sediment	m/s	1.00	BLOOMAlg02	VxDwnAlg02
VxUpwAlg03	total upward transport in sediment	m/s	1.00	BLOOMAlg03	VxUpwAlg03
VxDwnAlg03	total downward transport in sediment	m/s	1.00	BLOOMAlg03	VxDwnAlg03
VxUpwAlg04	total upward transport in sediment	m/s	1.00	BLOOMAlg04	VxUpwAlg04
VxDwnAlg04	total downward transport in sediment	m/s	1.00	BLOOMAlg04	VxDwnAlg04
VxUpwAlg05	total upward transport in sediment	m/s	1.00	BLOOMAlg05	VxUpwAlg05
VxDwnAlg05	total downward transport in sediment	m/s	1.00	BLOOMAlg05	VxDwnAlg05
VxUpwAlg06	total upward transport in sediment	m/s	1.00	BLOOMAlg06	VxUpwAlg06
VxDwnAlg06	total downward transport in sediment	m/s	1.00	BLOOMAlg06	VxDwnAlg06
VxUpwAlg07	total upward transport in sediment	m/s	1.00	BLOOMAlg07	VxUpwAlg07
VxDwnAlg07	total downward transport in sediment	m/s	1.00	BLOOMAlg07	VxDwnAlg07
VxUpwAlg08	total upward transport in sediment	m/s	1.00	BLOOMAlg08	VxUpwAlg08
VxDwnAlg08	total downward transport in sediment	m/s	1.00	BLOOMAlg08	VxDwnAlg08
VxUpwAlg09	total upward transport in sediment	m/s	1.00	BLOOMAlg09	VxUpwAlg09
VxDwnAlg09	total downward transport in sediment	m/s	1.00	BLOOMAlg09	VxDwnAlg09
VxUpwAlg10	total upward transport in sediment	m/s	1.00	BLOOMAlg10	VxUpwAlg10
VxDwnAlg10	total downward transport in sediment	m/s	1.00	BLOOMAlg10	VxDwnAlg10
VxUpwAlg11	total upward transport in sediment	m/s	1.00	BLOOMAlg11	VxUpwAlg11
VxDwnAlg11	total downward transport in sediment	m/s	1.00	BLOOMAlg11	VxDwnAlg11
VxUpwAlg12	total upward transport in sediment	m/s	1.00	BLOOMAlg12	VxUpwAlg12
VxDwnAlg12	total downward transport in sediment	m/s	1.00	BLOOMAlg12	VxDwnAlg12
VxUpwAlg13	total upward transport in sediment	m/s	1.00	BLOOMAlg13	VxUpwAlg13
VxDwnAlg13	total downward transport in sediment	m/s	1.00	BLOOMAlg13	VxDwnAlg13
VxUpwAlg14	total upward transport in sediment	m/s	1.00	BLOOMAlg14	VxUpwAlg14
VxDwnAlg14	total downward transport in sediment	m/s	1.00	BLOOMAlg14	VxDwnAlg14
VxUpwAlg15	total upward transport in sediment	m/s	1.00	BLOOMAlg15	VxUpwAlg15
VxDwnAlg15	total downward transport in sediment	m/s	1.00	BLOOMAlg15	VxDwnAlg15
VxUpwAlg16	total upward transport in sediment	m/s	1.00	BLOOMAlg16	VxUpwAlg16
VxDwnAlg16	total downward transport in sediment	m/s	1.00	BLOOMAlg16	VxDwnAlg16
VxUpwAlg17	total upward transport in sediment	m/s	1.00	BLOOMAlg17	VxUpwAlg17
VxDwnAlg17	total downward transport in sediment	m/s	1.00	BLOOMAlg17	VxDwnAlg17
VxUpwAlg18	total upward transport in sediment	m/s	1.00	BLOOMAlg18	VxUpwAlg18
VxDwnAlg18	total downward transport in sediment	m/s	1.00	BLOOMAlg18	VxDwnAlg18
VxUpwAlg19	total upward transport in sediment	m/s	1.00	BLOOMAlg19	VxUpwAlg19
VxDwnAlg19	total downward transport in sediment	m/s	1.00	BLOOMAlg19	VxDwnAlg19
VxUpwAlg20	total upward transport in sediment	m/s	1.00	BLOOMAlg20	VxUpwAlg20

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Table 6.1 – continued from previous page

Velocity	Description	Unit	Stoch.	Sub.	Process
VxDwnAlg20	total downward transport in sediment	m/s	1.00	BLOOMAlg20	VxDwnAlg20
VxUpwAlg21	total upward transport in sediment	m/s	1.00	BLOOMAlg21	VxUpwAlg21
VxDwnAlg21	total downward transport in sediment	m/s	1.00	BLOOMAlg21	VxDwnAlg21
VxUpwAlg22	total upward transport in sediment	m/s	1.00	BLOOMAlg22	VxUpwAlg22
VxDwnAlg22	total downward transport in sediment	m/s	1.00	BLOOMAlg22	VxDwnAlg22
VxUpwAlg23	total upward transport in sediment	m/s	1.00	BLOOMAlg23	VxUpwAlg23
VxDwnAlg23	total downward transport in sediment	m/s	1.00	BLOOMAlg23	VxDwnAlg23
VxUpwAlg24	total upward transport in sediment	m/s	1.00	BLOOMAlg24	VxUpwAlg24
VxDwnAlg24	total downward transport in sediment	m/s	1.00	BLOOMAlg24	VxDwnAlg24
VxUpwAlg25	total upward transport in sediment	m/s	1.00	BLOOMAlg25	VxUpwAlg25
VxDwnAlg25	total downward transport in sediment	m/s	1.00	BLOOMAlg25	VxDwnAlg25
VxUpwAlg26	total upward transport in sediment	m/s	1.00	BLOOMAlg26	VxUpwAlg26
VxDwnAlg26	total downward transport in sediment	m/s	1.00	BLOOMAlg26	VxDwnAlg26
VxUpwAlg27	total upward transport in sediment	m/s	1.00	BLOOMAlg27	VxUpwAlg27
VxDwnAlg27	total downward transport in sediment	m/s	1.00	BLOOMAlg27	VxDwnAlg27
VxUpwAlg28	total upward transport in sediment	m/s	1.00	BLOOMAlg28	VxUpwAlg28
VxDwnAlg28	total downward transport in sediment	m/s	1.00	BLOOMAlg28	VxDwnAlg28
VxUpwAlg29	total upward transport in sediment	m/s	1.00	BLOOMAlg29	VxUpwAlg29
VxDwnAlg29	total downward transport in sediment	m/s	1.00	BLOOMAlg29	VxDwnAlg29
VxUpwAlg30	total upward transport in sediment	m/s	1.00	BLOOMAlg30	VxUpwAlg30
VxDwnAlg30	total downward transport in sediment	m/s	1.00	BLOOMAlg30	VxDwnAlg30
VxGrzPOC1	flux to GEM bot.org. from grazing as velocity	m/s	1.00	POC1	VxGrzPOC1
VxGrzPON1	flux to GEM bot.org. from grazing as velocity	m/s	1.00	PON1	VxGrzPON1
VxGrzPOP1	flux to GEM bot.org. from grazing as velocity	m/s	1.00	POP1	VxGrzPOP1
VxGrzPOSi1	flux to GEM bot.org. from grazing as velocity	m/s	1.00	Opal	VxGrzPOSi1
VxSedCd	sedimentation velocity Cd	m/s	1.00	Cd	VxSedCd
VxSedCd	sedimentation velocity Cd	m/s	1.00	Cd-par	VxSedCd
VxSedCu	sedimentation velocity Cu	m/s	1.00	Cu	VxSedCu
VxSedCu	sedimentation velocity Cu	m/s	1.00	Cu-par	VxSedCu
VxSedZn	sedimentation velocity Zn	m/s	1.00	Zn	VxSedZn
VxSedZn	sedimentation velocity Zn	m/s	1.00	Zn-par	VxSedZn
VxSedHg	sedimentation velocity Hg	m/s	1.00	Hg	VxSedHg
VxSedHg	sedimentation velocity Hg	m/s	1.00	Hg-par	VxSedHg
VxSedNi	sedimentation velocity Ni	m/s	1.00	Ni	VxSedNi
VxSedNi	sedimentation velocity Ni	m/s	1.00	Ni-par	VxSedNi
VxSedPb	sedimentation velocity Pb	m/s	1.00	Pb	VxSedPb
VxSedPb	sedimentation velocity Pb	m/s	1.00	Pb-par	VxSedPb
VxSedCr	sedimentation velocity Cr	m/s	1.00	Cr	VxSedCr
VxSedCr	sedimentation velocity Cr	m/s	1.00	Cr-par	VxSedCr
VxSedAs	sedimentation velocity As	m/s	1.00	As	VxSedAs
VxSedAs	sedimentation velocity As	m/s	1.00	As-par	VxSedAs
VxSedVa	sedimentation velocity Va	m/s	1.00	Va	VxSedVa
VxSedVa	sedimentation velocity Va	m/s	1.00	Va-par	VxSedVa
VxSed153	sedimentation velocity 153	m/s	1.00	153	VxSed153
VxSed153	sedimentation velocity 153	m/s	1.00	153-par	VxSed153
VxSedHCB	sedimentation velocity HCB	m/s	1.00	HCB	VxSedHCB
VxSedHCB	sedimentation velocity HCB	m/s	1.00	HCB-par	VxSedHCB
VxSedHCH	sedimentation velocity HCH	m/s	1.00	HCH	VxSedHCH
VxSedHCH	sedimentation velocity HCH	m/s	1.00	HCH-par	VxSedHCH
VxSedFlu	sedimentation velocity Flu	m/s	1.00	Flu	VxSedFlu
VxSedFlu	sedimentation velocity Flu	m/s	1.00	Flu-par	VxSedFlu
VxSedBap	sedimentation velocity BaP	m/s	1.00	Bap	VxSedBap
VxSedBap	sedimentation velocity BaP	m/s	1.00	Bap-par	VxSedBap
VxSedAtr	sedimentation velocity Atrazine	m/s	1.00	Atr	VxSedAtr
VxSedAtr	sedimentation velocity Atrazine	m/s	1.00	Atr-par	VxSedAtr
VxSedMef	sedimentation velocity Mef	m/s	1.00	Mef	VxSedMef
VxSedMef	sedimentation velocity Mef	m/s	1.00	Mef-par	VxSedMef
VxSedDiu	sedimentation velocity Diu	m/s	1.00	Diu	VxSedDiu
VxSedDiu	sedimentation velocity Diu	m/s	1.00	Diu-par	VxSedDiu
VxSedOMP	sedimentation velocity OMP	m/s	1.00	OMP	VxSedOMP
VxSedOMP	sedimentation velocity OMP	m/s	1.00	OMP-par	VxSedOMP
VxUpwOMP	total upward transport in sediment	m/s	1.00	OMP	VxUpwOMP
VxDownOMP	total downward transport in sediment	m/s	1.00	OMP	VxDownOMP

7 Listing of the modelled dispersions

Table 7.1: Listing of the modelled dispersions

Dispersion	Description	Unit	Stoch.	Sub.	Process
VertDisp	vertical dispersion	m ² /s	1.00	ALLACTIVE	VertDisp
HorzDisp	variable horizontal dispersion	m ² /s	1.00	ALLACTIVE	HorzDisp
HorzDispV	variable horizontal dispersion	m ² /s	1.00	ALLACTIVE	HorzDispV
HorzDispA	variable horizontal dispersion	m ² /s	1.00	ALLACTIVE	HorzDispA

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8 Segment related process input from other processes

Table 8.1: Segment related process input from other processes

Process	Description	Unit	Process
ModTemp	Water Temperature	°C	HeatBal
CBODu	carbonaceous BOD first pool ultimate	gO ₂ /m ³	DBOD_TEWOR
CBODu_2	carbonaceous BOD second pool ultimate	gO ₂ /m ³	DBOD_TEWOR
Salinity	Salinity	g/kg	VarSal
Salinity	Salinity	g/kg	Salinchlor
Cl	Chloride	g/m ³	Salinchlor
Surf	horizontal surface area of a DELWAQ segment	m ²	DynSurf
Depth	depth of segment	m	DynDepth
TotalDepth	total depth water column	m	TotDepth
LocalDepth	depth from water surface to bottom of segment	m	TotDepth
LocSedDept	Sediment layer depth to bottom of segment	m	TotDepth
SwEmersion	switch indicating submersion0 or emersion1	-	Emersion
RadSW	Short wave radiation reaching water	W/m ²	Meteo
VWind	wind speed	m/s	Meteo
RelHumAir	Relative air humidity	%	Meteo
TempAir	Air temperature	°C	Meteo
PAtm	Air pressure	mbar	Meteo
SunFac	Percentage sunshine	%	Meteo
RhoWater	density of water	kg/m ³	HeatBal
RhoWater	density of water	kg/m ³	Salinchlor
RadSurf	irradiation at the water surface	W/m ²	Coverage
DayRadSurf	actual irradiance over the day	W/m ²	DAYRAD
DelTrad	temperature increase due to radiation	°C	Temperatur
Temp	ambient water temperature	°C	Temperatur
WSNoseg1	workspace array no. 1	-	Veloc
WSNoseg2	workspace array no. 2	-	Veloc
WSNoseg3	workspace array no. 3	-	Veloc
WSNoseg4	workspace array no. 4	-	Veloc
Velocity	horizontal flow velocity	m/s	Veloc
WSNoseg5	workspace array no. 5	-	ResTim
CHEZY	Chezy coefficient	m ^{0.5} /s	Chezy
FETCH	fetch length for wind	m	WFetch
InitDepth	depth where wave is created <-1: actual depth>	m	WDepth
WaveHeight	calculated height of a wind induced wave	m	Wave
WaveLength	calculated length of a wind induced wave	m	Wave
WavePeriod	calculated period of a wind induced wave	s	Wave
Tau	total bottom shear stress	N/m ²	CalTau
pH	pH	-	pH_carb
pH	pH	-	pH_simp
Poros	volumetric porosity	-	DMVolume
CO2	CO2	g/m ³	pH_simp
DisCO2	concentration of dissolved carbon dioxide	g/m ³	pH_carb
DisCO2	concentration of dissolved carbon dioxide	g/m ³	SpecCarb
DisH2CO3	concentration of dissolved true H2CO3	gC/m ³	SpecCarb
DisHCO3	concentration of dissolved HCO3-	gC/m ³	pH_carb
DisHCO3	concentration of dissolved HCO3-	gC/m ³	SpecCarb
FrCO3dis	fraction dissolved free carbonate	-	SpecCarb
ExtVPhyt	VL extinction by phytoplankton	1/m	EXTINABVLP
ExtVPhyt	VL extinction by phytoplankton	1/m	EXTINABVL
ExtVPhyt	VL extinction by phytoplankton	1/m	ExtPhDVL
ExtUvPhyt	UV extinction by phytoplankton	1/m	EXTINABUVP
ExtUvPhyt	UV extinction by phytoplankton	1/m	EXTINABUV
ExtUvPhyt	UV extinction by phytoplankton	1/m	ExtPhDUV
ExtVIMacro	VL extinction by macrophytes	1/m	ExtMacroVI
ExtVI	total extinction coefficient visible light	1/m	Extinc_VLG
ExtUvMacro	UV extinction by macrophytes	1/m	ExtMacroUV
ExtUv	total extinction coefficient UV light	1/m	Extinc_UVG
RadBot	irradiation at the segment lower-boundary	W/m ²	CalcRad
Rad	irradiation at the segment upper-boundary	W/m ²	CalcRad
RadBotDay	actual irradiation at the lower-boundary	W/m ²	CalcRadDay
RadBot_uv	UV-irradiation at the segment lower-boundary	W/m ²	CalcRadUV
Rad_uv	UV-irradiation at the segment upper-boundary	W/m ²	CalcRadUV
DayL	daylength <0-1>	d	Daylength
BloomDepth	average depth over Bloom time step	m	DepAve
SwVTRANS	switch effect of vertical mixing on light	-	vtrans
fPPtot	total net primary production	gC/(m ² d)	BLOOM_P
fPPtot	total net primary production	gC/(m ² d)	BLOOM

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Table 8.1 – continued from previous page

Process	Description	Unit	Process
fResptot	total respiration flux	gC/(m ² d)	BLOOM_P
fResptot	total respiration flux	gC/(m ² d)	BLOOM
Phyt	total carbon in phytoplankton	gC/m ³	Phy_Blo_P
Phyt	total carbon in phytoplankton	gC/m ³	Phy_Blo
Phyt	total carbon in phytoplankton	gC/m ³	Phy_dyn
AlgN	total nitrogen in algae	gN/m ³	Phy_Blo_P
AlgN	total nitrogen in algae	gN/m ³	Phy_Blo
AlgN	total nitrogen in algae	gN/m ³	Phy_dyn
AlgP	total phosphorus in algae	gP/m ³	Phy_Blo_P
AlgP	total phosphorus in algae	gP/m ³	Phy_Blo
AlgP	total phosphorus in algae	gP/m ³	Phy_dyn
AlgSi	total silica in algae	gSi/m ³	Phy_Blo_P
AlgSi	total silica in algae	gSi/m ³	Phy_Blo
AlgSi	total silica in algae	gSi/m ³	Phy_dyn
AlgDM	total DM in algae	gDM/m ³	Phy_Blo_P
AlgDM	total DM in algae	gDM/m ³	Phy_Blo
AlgDM	total DM in algae	gDM/m ³	Phy_dyn
Chlfa	Chlorophyll-a concentration	mg/m ³	Phy_Blo_P
Chlfa	Chlorophyll-a concentration	mg/m ³	Phy_Blo
Chlfa	Chlorophyll-a concentration	mg/m ³	Phy_dyn
POCnoa	total POC no algae	gC/m ³	MakOOC
POCnoa	total POC no algae	gC/m ³	Compos
DMS1	total amount of dry matter in layer S1	gDM/m ²	S1_Comp
POCS1	total POC in layer S1	gC/m ²	MakOOCs1
POCS1	total POC in layer S1	gC/m ²	S1_Comp
PHYTS1	total carbon in phytoplankton in layer S1	gC/m ²	S1_Comp
RHOS1	overall bulk density layer S1	g/m ³	S1_Comp
ActThS1	actual thickness layer S1	m	S1_Comp
FrIM1S1	fraction IM1 in layer S1	gDM/gDM	S1_Comp
FrIM2S1	fraction IM2 in layer S1	gDM/gDM	S1_Comp
FrIM3S1	fraction IM3 in layer S1	gDM/gDM	S1_Comp
FrDetCS1	fraction DetC in layer S1	gC/gDM	S1_Comp
FrOOCs1	fraction OOC in layer S1	gC/gDM	S1_Comp
FrDiatS1	fraction Diatoms in layer S1	gC/gDM	S1_Comp
FrMPB1S1	fraction MPB1 in layer S1	gC/gDM	S1_Comp
FrMPB2S1	fraction MPB2 in layer S1	gC/gDM	S1_Comp
DMS2	total amount of dry matter in layer S2	gDM/m ²	S2_Comp
POCS2	total POC in layer S2	gC/m ²	MakOOCs2
POCS2	total POC in layer S2	gC/m ²	S2_Comp
PHYTS2	total carbon in phytoplankton in layer S2	gC/m ²	S2_Comp
RHOS2	overall bulk density layer S2	g/m ³	S2_Comp
ActThS2	actual thickness layer S2	m	S2_Comp
FrIM1S2	fraction IM1 in layer S2	gDM/gDM	S2_Comp
FrIM2S2	fraction IM2 in layer S2	gDM/gDM	S2_Comp
FrIM3S2	fraction IM3 in layer S2	gDM/gDM	S2_Comp
FrDetCS2	fraction DetC in layer S2	gC/gDM	S2_Comp
FrOOCs2	fraction OOC in layer S2	gC/gDM	S2_Comp
FrDiatS2	fraction Diatoms in layer S2	gC/gDM	S2_Comp
FrMPB1S2	fraction MPB1 in layer S2	gC/gDM	S2_Comp
FrMPB2S2	fraction MPB2 in layer S2	gC/gDM	S2_Comp
C-NPOC1	C:N ratio fast decaying detritus	gC/gN	Compos
C-NPOC2	C:N ratio medium decaying detritus	gC/gN	Compos
C-NPOC3	C:N ratio slow detritus	gC/gN	Compos
C-NPOC4	C:N ratio refractory detritus	gC/gN	Compos
C-PPOC1	C:P ratio fast decaying detritus	gC/gP	Compos
C-PPOC2	C:P ratio medium decaying detritus	gC/gP	Compos
C-PPOC3	C:P ratio slow detritus	gC/gP	Compos
C-PPOC4	C:P ratio refractory detritus	gC/gP	Compos
TPM	total particulate matter including algae	gdw/m ³	Compos
SS	suspended solids	g/m ³	Compos
TIM	total inorganic matter	gDM/m ³	Compos
POM	particulate org. matter incl algae	gdw/m ³	Compos
ActTh	actual thickness total sediment layer	m	DMVolume
SaturCO2	saturation concentration	gCO ₂ /m ³	SaturCO2
fcover	fraction of water surface covered <0-1>	-	Coverage
FPIM1	fraction of P adsorbed on IM1	-	AdsPO4AAP
FPIM2	fraction of P adsorbed on IM2	-	AdsPO4AAP
FPIM3	fraction of P adsorbed on IM3	-	AdsPO4AAP
QPIM1	quality IM1 for P	gP/gDM	AdsPO4AAP

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Process	Description	Unit	Process
QPIM2	quality IM2 for P	gP/gDM	AdsPO4AAP
QPIM3	quality IM3 for P	gP/gDM	AdsPO4AAP
SaturOXY	saturation concentration	gO ₂ /m ³	SaturOXY
f_minPOC1	mineralization flux POC1	gC/m ³ /d	DecFast
f_minPOC2	mineralization flux POC2	gC/m ³ /d	DecMedium
f_minPOC3	mineralization flux POC3	gC/m ³ /d	DecSlow
f_minPOC4	mineralization flux POC4	gC/m ³ /d	DecRefr
f_minPOC5	mineralization flux POC5 submerged	gC/m ³ /d	DecPOC5
f_minDOC	mineralization flux DOC	gC/m ³ /d	DecDOC
TFGroGreen	temperature function growth Greens <0-1>	-	TF_Green
TFMrtGreen	temperature function mortality Greens <0-1>	-	TF_Green
TFGroDiat	temperature function growth Diatoms <0-1>	-	TF_Diat
TFMrtDiat	temperature function mortality Diatoms <0-1>	-	TF_Diat
LimDLGreen	daylength limitation function for Greens <0-1>	-	DL_Green
LimDLdiat	daylength limitation function for Diatoms <0-1>	-	DL_Diat
LimDLdiaS1	daylength limit. funct. for Diatoms layer S1 <0-1>	-	DL_DiatS1
LimNutGree	nutrient limitation function Greens <0-1>	-	NLGreen
LimNutDiat	nutrient limitation function Diatoms <0-1>	-	NLDiat
LimRadGree	radiation limitation function Greens <0-1>	-	Rad_Green
LimRadDiat	radiation limitation function Diatoms <0-1>	-	Rad_Diat
LimRadDiS1	radiation limit. funct. Diatoms in layer S1 <0-1>	-	Rad_DiatS1
RcGroGreen	primary production rate minus respiration Greens	1/d	GroMrt_Gre
RcRespGree	respiration rate Greens	1/d	GroMrt_Gre
fPPGreen	net primary production of Greens	gC/(m ² d)	GroMrt_Gre
fMrtGreen	mortality flux Greens	gC/(m ² d)	GroMrt_Gre
RcGroDiat	primary production rate minus respirationDiatoms	1/d	GroMrt_Dia
RcRespDiat	respiration rate Diatoms	1/d	GroMrt_Dia
fPPDiat	net primary production of Diatoms	gC/(m ² d)	GroMrt_Dia
fMrtDiat	mortality flux Diatoms	gC/(m ² d)	GroMrt_Dia
fMrtDiatS1	mortality flux Diatoms in layer S1	gC/(m ² d)	GroMrt_DS1
fcPPGreeN	numerical maximum flux Greens	gN/m ³ /d	PPrLim
fcPPDiat	numerical maximum flux Diatoms	gN/m ³ /d	PPrLim
SaturCH4	saturation concentration of methane	gC/m ³	SaturCH4
DisHSWK	HS- in water column	(mol l)	SPECSUD
DisSWK	S- in water column	(mol l)	SPECSUD
FrH2Sdis	fraction of dissolved hydrogen sulphide	-	SPECSUD
FrS2dis	fraction dissolved free sulphide	-	SPECSUD
FrFe3dis	fraction dissolved free ironIII	-	SPECIRON
FrFe2dis	fraction dissolved free ironII	-	SPECIRON
FrFe2OHd	fraction of dissolved FeOH ⁺	-	SPECIRON
FrFe2OH2d	fraction of dissolved FeOH ₂	-	SPECIRON
VSedIM1	sedimentation velocity IM1	m/d	CalVS_IM1
VSedIM1	sedimentation velocity IM1	m/d	CalVS_IM1
VSedIM2	sedimentation velocity IM2	m/d	CalVS_IM2
VSedIM2	sedimentation velocity IM2	m/d	CalVS_IM2
VSedIM3	sedimentation velocity IM3	m/d	CalVS_IM3
VSedIM3	sedimentation velocity IM3	m/d	CalVS_IM3
VSedDiat	sedimentation velocity Diatoms	m/d	CalVS_Diat
VSedDiat	sedimentation velocity Diatoms	m/d	CalVS_Diat
VSedGreen	sedimentation velocity Greens	m/d	CalVS_Gree
VSedGreen	sedimentation velocity Greens	m/d	CalVS_Gree
VsedAlg	sedimentation velocity algae	m/d	CalVSALG
VsedAlg	sedimentation velocity algae	m/d	CalVSALG
VSedAlg01	sedimentation velocity algae type 01	m/d	CalVSALG01
VSedAlg01	sedimentation velocity algae type 01	m/d	CalVSALG01
VSedAlg02	sedimentation velocity algae type 02	m/d	CalVSALG02
VSedAlg02	sedimentation velocity algae type 02	m/d	CalVSALG02
VSedAlg03	sedimentation velocity algae type 03	m/d	CalVSALG03
VSedAlg03	sedimentation velocity algae type 03	m/d	CalVSALG03
VSedAlg04	sedimentation velocity algae type 04	m/d	CalVSALG04
VSedAlg04	sedimentation velocity algae type 04	m/d	CalVSALG04
VSedAlg05	sedimentation velocity algae type 05	m/d	CalVSALG05
VSedAlg05	sedimentation velocity algae type 05	m/d	CalVSALG05
VSedAlg06	sedimentation velocity algae type 06	m/d	CalVSALG06
VSedAlg06	sedimentation velocity algae type 06	m/d	CalVSALG06
VSedAlg07	sedimentation velocity algae type 07	m/d	CalVSALG07
VSedAlg07	sedimentation velocity algae type 07	m/d	CalVSALG07
VSedAlg08	sedimentation velocity algae type 08	m/d	CalVSALG08
VSedAlg08	sedimentation velocity algae type 08	m/d	CalVSALG08
VSedAlg09	sedimentation velocity algae type 09	m/d	CalVSALG09

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Process	Description	Unit	Process
VSedAlg09	sedimentation velocity algae type 09	m/d	CalVSALG09
VSedAlg10	sedimentation velocity algae type 10	m/d	CalVSALG10
VSedAlg10	sedimentation velocity algae type 10	m/d	CalVSALG10
VSedAlg11	sedimentation velocity algae type 11	m/d	CalVSALG11
VSedAlg11	sedimentation velocity algae type 11	m/d	CalVSALG11
VSedAlg12	sedimentation velocity algae type 12	m/d	CalVSALG12
VSedAlg12	sedimentation velocity algae type 12	m/d	CalVSALG12
VSedAlg13	sedimentation velocity algae type 13	m/d	CalVSALG13
VSedAlg13	sedimentation velocity algae type 13	m/d	CalVSALG13
VSedAlg14	sedimentation velocity algae type 14	m/d	CalVSALG14
VSedAlg14	sedimentation velocity algae type 14	m/d	CalVSALG14
VSedAlg15	sedimentation velocity algae type 15	m/d	CalVSALG15
VSedAlg15	sedimentation velocity algae type 15	m/d	CalVSALG15
VSedAlg16	sedimentation velocity algae type 16	m/d	CalVSALG16
VSedAlg16	sedimentation velocity algae type 16	m/d	CalVSALG16
VSedAlg17	sedimentation velocity algae type 17	m/d	CalVSALG17
VSedAlg17	sedimentation velocity algae type 17	m/d	CalVSALG17
VSedAlg18	sedimentation velocity algae type 18	m/d	CalVSALG18
VSedAlg18	sedimentation velocity algae type 18	m/d	CalVSALG18
VSedAlg19	sedimentation velocity algae type 19	m/d	CalVSALG19
VSedAlg19	sedimentation velocity algae type 19	m/d	CalVSALG19
VSedAlg20	sedimentation velocity algae type 20	m/d	CalVSALG20
VSedAlg20	sedimentation velocity algae type 20	m/d	CalVSALG20
VSedAlg21	sedimentation velocity algae type 21	m/d	CalVSALG21
VSedAlg21	sedimentation velocity algae type 21	m/d	CalVSALG21
VSedAlg22	sedimentation velocity algae type 22	m/d	CalVSALG22
VSedAlg22	sedimentation velocity algae type 22	m/d	CalVSALG22
VSedAlg23	sedimentation velocity algae type 23	m/d	CalVSALG23
VSedAlg23	sedimentation velocity algae type 23	m/d	CalVSALG23
VSedAlg24	sedimentation velocity algae type 24	m/d	CalVSALG24
VSedAlg24	sedimentation velocity algae type 24	m/d	CalVSALG24
VSedAlg25	sedimentation velocity algae type 25	m/d	CalVSALG25
VSedAlg25	sedimentation velocity algae type 25	m/d	CalVSALG25
VSedAlg26	sedimentation velocity algae type 26	m/d	CalVSALG26
VSedAlg26	sedimentation velocity algae type 26	m/d	CalVSALG26
VSedAlg27	sedimentation velocity algae type 27	m/d	CalVSALG27
VSedAlg27	sedimentation velocity algae type 27	m/d	CalVSALG27
VSedAlg28	sedimentation velocity algae type 28	m/d	CalVSALG28
VSedAlg28	sedimentation velocity algae type 28	m/d	CalVSALG28
VSedAlg29	sedimentation velocity algae type 29	m/d	CalVSALG29
VSedAlg29	sedimentation velocity algae type 29	m/d	CalVSALG29
VSedAlg30	sedimentation velocity algae type 30	m/d	CalVSALG30
VSedAlg30	sedimentation velocity algae type 30	m/d	CalVSALG30
fSedIM1	sedimentation flux IM1 towards S1	g/(m ² d)	Sed_IM1
fSedIM2	sedimentation flux IM2 towards S1	g/(m ² d)	Sed_IM2
fSedIM3	sedimentation flux IM3 towards S1	g/(m ² d)	Sed_IM3
fSedDiat	sedimentation flux Diatoms	gC/(m ² d)	SedDiat
fSedGreen	sedimentation flux Greens	gC/(m ² d)	Sed_Gre
fSedAlg	sedimentation flux algae	gC/(m ² d)	SEDALG
fSedAlg01	sedimentation flux algae type 01	gC/(m ² d)	SEDALG01
fSedAlg02	sedimentation flux algae type 02	gC/(m ² d)	SEDALG02
fSedAlg03	sedimentation flux algae type 03	gC/(m ² d)	SEDALG03
fSedAlg04	sedimentation flux algae type 04	gC/(m ² d)	SEDALG04
fSedAlg05	sedimentation flux algae type 05	gC/(m ² d)	SEDALG05
fSedAlg06	sedimentation flux algae type 06	gC/(m ² d)	SEDALG06
fSedAlg07	sedimentation flux algae type 07	gC/(m ² d)	SEDALG07
fSedAlg08	sedimentation flux algae type 08	gC/(m ² d)	SEDALG08
fSedAlg09	sedimentation flux algae type 09	gC/(m ² d)	SEDALG09
fSedAlg10	sedimentation flux algae type 10	gC/(m ² d)	SEDALG10
fSedAlg11	sedimentation flux algae type 11	gC/(m ² d)	SEDALG11
fSedAlg12	sedimentation flux algae type 12	gC/(m ² d)	SEDALG12
fSedAlg13	sedimentation flux algae type 13	gC/(m ² d)	SEDALG13
fSedAlg14	sedimentation flux algae type 14	gC/(m ² d)	SEDALG14
fSedAlg15	sedimentation flux algae type 15	gC/(m ² d)	SEDALG15
fSedAlg16	sedimentation flux algae type 16	gC/(m ² d)	SEDALG16
fSedAlg17	sedimentation flux algae type 17	gC/(m ² d)	SEDALG17
fSedAlg18	sedimentation flux algae type 18	gC/(m ² d)	SEDALG18
fSedAlg19	sedimentation flux algae type 19	gC/(m ² d)	SEDALG19
fSedAlg20	sedimentation flux algae type 20	gC/(m ² d)	SEDALG20
fSedAlg21	sedimentation flux algae type 21	gC/(m ² d)	SEDALG21

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Table 8.1 – continued from previous page

Process	Description	Unit	Process
fSedAlg22	sedimentation flux algae type 22	gC/(m ² d)	SEDALG22
fSedAlg23	sedimentation flux algae type 23	gC/(m ² d)	SEDALG23
fSedAlg24	sedimentation flux algae type 24	gC/(m ² d)	SEDALG24
fSedAlg25	sedimentation flux algae type 25	gC/(m ² d)	SEDALG25
fSedAlg26	sedimentation flux algae type 26	gC/(m ² d)	SEDALG26
fSedAlg27	sedimentation flux algae type 27	gC/(m ² d)	SEDALG27
fSedAlg28	sedimentation flux algae type 28	gC/(m ² d)	SEDALG28
fSedAlg29	sedimentation flux algae type 29	gC/(m ² d)	SEDALG29
fSedAlg30	sedimentation flux algae type 30	gC/(m ² d)	SEDALG30
fSedBOD5	sedimentation flux CBOD5	gO ₂ /(m ² d)	S_CBOD51
fSedBOD5_2	sedimentation flux CBOD5_2	gO ₂ /(m ² d)	S_CBOD52
fSedBOD5_3	sedimentation flux CBOD5_3	gO ₂ /(m ² d)	S_CBOD53
fSedBODu	sedimentation flux CBODu	gO ₂ /(m ² d)	S_CBODu1
fSedBODu_2	sedimentation flux CBODu_2	gO ₂ /(m ² d)	S_CBODu2
fSedCODCr	sedimentation flux COD_Cr	gO ₂ /(m ² d)	S_CODCr
fSedCODMn	sedimentation flux COD_Mn	gO ₂ /(m ² d)	S_CODMn
fSedNBOD5	sedimentation flux NBOD5	gO ₂ /(m ² d)	S_NBOD5
fSedNBODu	sedimentation flux NBODu	gO ₂ /(m ² d)	S_NBODu
fSedPHYT	total sedimentation flux phytoplankton	gC/(m ² d)	SedPhBlo_P
fSedPHYT	total sedimentation flux phytoplankton	gC/(m ² d)	SedPhBlo
fSedPHYT	total sedimentation flux phytoplankton	gC/(m ² d)	SedPhDyn
fSedAlgDM	total sedimentation flux phytoplankton as DM	gDM/(m ² d)	SedPhBlo_P
fSedAlgDM	total sedimentation flux phytoplankton as DM	gDM/(m ² d)	SedPhBlo
fSedAlgDM	total sedimentation flux phytoplankton as DM	gDM/(m ² d)	SedPhDyn
fSedPOCnoa	total sedimentation flux POC no algae	gC/(m ² d)	Sum_Sedim
VSedPOC1	sedimentation velocity POC1	m/d	CalVS_POC1
VSedPOC1	sedimentation velocity POC1	m/d	CalVS_POC1
fSedPOC1	sedimentation flux POC1	gC/(m ² d)	Sed_POC1
VSedPOC2	sedimentation velocity POC2	m/d	CalVS_POC2
VSedPOC2	sedimentation velocity POC2	m/d	CalVS_POC2
fSedPOC2	sedimentation flux POC2	gC/(m ² d)	Sed_POC2
VSedPOC3	sedimentation velocity POC3	m/d	CalVS_POC3
VSedPOC3	sedimentation velocity POC3	m/d	CalVS_POC3
fSedPOC3	sedimentation flux POC3	gC/(m ² d)	Sed_POC3
VSedPOC4	sedimentation velocity POC4	m/d	CalVS_POC4
VSedPOC4	sedimentation velocity POC4	m/d	CalVS_POC4
fSedPOC4	sedimentation flux POC4	gC/(m ² d)	Sed_POC4
fSedDM	total sedimentation flux dry matter	gDM/(m ² d)	Sum_Sedim
fResS1DM	total resuspension flux DM from layer S1	g/(m ² d)	Res_DM
fResS2DM	total resuspension flux DM from layer S2	gDM/(m ² d)	Res_DM
fResS1Diat	resuspension flux Diatoms from layer S1	gC/(m ² d)	S12TraDiat
fResS2Diat	resuspension flux Diatoms from layer S2	gC/(m ² d)	S12TraDiat
fBurS1DM	total burial flux DM from layer S1	gDM/(m ² d)	Bur_DM
fBurS2DM	total burial flux DM from layer S2	gDM/(m ² d)	Bur_DM
fDigS1DM	total digging flux DM to layer S1	gDM/(m ² d)	Dig_DM
fDigS2DM	total digging flux DM to layer S2	gDM/(m ² d)	Dig_DM
KdCdIM1	partition coefficient Cd-IM1	m ³ /kgDM	RFPART_Cd
KdCdIM2	partition coefficient Cd-IM2	m ³ /kgDM	RFPART_Cd
KdCdIM3	partition coefficient Cd-IM3	m ³ /kgDM	RFPART_Cd
KdCuIM1	partition coefficient Cu-IM1	m ³ /kgDM	RFPART_Cu
KdCuIM2	partition coefficient Cu-IM2	m ³ /kgDM	RFPART_Cu
KdCuIM3	partition coefficient Cu-IM3	m ³ /kgDM	RFPART_Cu
KdPbIM1	partition coefficient Pb-IM1	m ³ /kgDM	RFPART_Pb
KdPbIM2	partition coefficient Pb-IM2	m ³ /kgDM	RFPART_Pb
KdPbIM3	partition coefficient Pb-IM3	m ³ /kgDM	RFPART_Pb
KdZnIM1	partition coefficient Zn-IM1	m ³ /kgDM	RFPART_Zn
KdZnIM2	partition coefficient Zn-IM2	m ³ /kgDM	RFPART_Zn
KdZnIM3	partition coefficient Zn-IM3	m ³ /kgDM	RFPART_Zn
KdHgIM1	partition coefficient Hg-IM1	m ³ /kgDM	RFPART_Hg
KdHgIM2	partition coefficient Hg-IM2	m ³ /kgDM	RFPART_Hg
KdHgIM3	partition coefficient Hg-IM3	m ³ /kgDM	RFPART_Hg
KdNiIM1	partition coefficient Ni-IM1	m ³ /kgDM	RFPART_Ni
KdNiIM2	partition coefficient Ni-IM2	m ³ /kgDM	RFPART_Ni
KdNiIM3	partition coefficient Ni-IM3	m ³ /kgDM	RFPART_Ni
KdCrIM1	partition coefficient Cr-IM1	m ³ /kgDM	RFPART_Cr
KdCrIM2	partition coefficient Cr-IM2	m ³ /kgDM	RFPART_Cr
KdCrIM3	partition coefficient Cr-IM3	m ³ /kgDM	RFPART_Cr
KdAsIM1	partition coefficient for As and IM1	m ³ /kgDW	RFPART_As

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Table 8.1 – continued from previous page

Process	Description	Unit	Process
KdAsIM2	partition coefficient for As and IM2	m ³ /kgDM	RFPART_As
KdAsIM3	partition coefficient for As and IM3	m ³ /kgDM	RFPART_As
SWWaterKCh	switch for oxic 1 or sulfidic 0 water	-	SwOXYParWK
FrCdIM1	fraction Cd adsorbed to IM1	-	PartWK_Cd
FrCdIM2	fraction Cd adsorbed to IM2	-	PartWK_Cd
FrCdIM3	fraction Cd adsorbed to IM3	-	PartWK_Cd
FrCdPOC	fraction Cd adsorbed to POC	-	PartWK_Cd
FrCdPHYT	fraction Cd adsorbed to phytoplankton	-	PartWK_Cd
QCdIM1	quality IM1 for Cd	gCd/gDM	PartWK_Cd
QCdIM2	quality IM2 for Cd	gCd/gDM	PartWK_Cd
QCdIM3	quality IM3 for Cd	gCd/gDM	PartWK_Cd
QCdPOC	quality POC for Cd	gCd/gC	PartWK_Cd
QCdPHYT	quality phytoplankton for Cd	gCd/gC	PartWK_Cd
FrCrIM1	fraction Cr adsorbed to IM1	-	PartWK_Cr
FrCrIM2	fraction Cr adsorbed to IM2	-	PartWK_Cr
FrCrIM3	fraction Cr adsorbed to IM3	-	PartWK_Cr
FrCrPOC	fraction Cr adsorbed to POC	-	PartWK_Cr
FrCrPHYT	fraction Cr adsorbed to phytoplankton	-	PartWK_Cr
QCrIM1	quality IM1 for Cr	gCr/gDM	PartWK_Cr
QCrIM2	quality IM2 for Cr	gCr/gDM	PartWK_Cr
QCrIM3	quality IM3 for Cr	gCr/gDM	PartWK_Cr
QCrPOC	quality POC for Cr	gCr/gC	PartWK_Cr
QCrPHYT	quality phytoplankton for Cr	gCr/gC	PartWK_Cr
FrCuIM1	fraction Cu adsorbed to IM1	-	PartWK_Cu
FrCuIM2	fraction Cu adsorbed to IM2	-	PartWK_Cu
FrCuIM3	fraction Cu adsorbed to IM3	-	PartWK_Cu
FrCuPOC	fraction Cu adsorbed to POC	-	PartWK_Cu
FrCuPHYT	fraction Cu adsorbed to phytoplankton	-	PartWK_Cu
QCuIM1	quality IM1 for Cu	gCu/gDM	PartWK_Cu
QCuIM2	quality IM2 for Cu	gCu/gDM	PartWK_Cu
QCuIM3	quality IM3 for Cu	gCu/gDM	PartWK_Cu
QCuPOC	quality POC for Cu	gCu/gC	PartWK_Cu
QCuPHYT	quality phytoplankton for Cu	gCu/gC	PartWK_Cu
FrHgIM1	fraction Hg adsorbed to IM1	-	PartWK_Hg
FrHgIM2	fraction Hg adsorbed to IM2	-	PartWK_Hg
FrHgIM3	fraction Hg adsorbed to IM3	-	PartWK_Hg
FrHgPOC	fraction Hg adsorbed to POC	-	PartWK_Hg
FrHgPHYT	fraction Hg adsorbed to phytoplankton	-	PartWK_Hg
QHgIM1	quality IM1 for Hg	gHg/gDM	PartWK_Hg
QHgIM2	quality IM2 for Hg	gHg/gDM	PartWK_Hg
QHgIM3	quality IM3 for Hg	gHg/gDM	PartWK_Hg
QHgPOC	quality POC for Hg	gHg/gC	PartWK_Hg
QHgPHYT	quality phytoplankton for Hg	gHg/gC	PartWK_Hg
FrNiIM1	fraction Ni adsorbed to IM1	-	PartWK_Ni
FrNiIM2	fraction Ni adsorbed to IM2	-	PartWK_Ni
FrNiIM3	fraction Ni adsorbed to IM3	-	PartWK_Ni
FrNiPOC	fraction Ni adsorbed to POC	-	PartWK_Ni
FrNiPHYT	fraction Ni adsorbed to phytoplankton	-	PartWK_Ni
QNiIM1	quality IM1 for Ni	gNi/gDM	PartWK_Ni
QNiIM2	quality IM2 for Ni	gNi/gDM	PartWK_Ni
QNiIM3	quality IM3 for Ni	gNi/gDM	PartWK_Ni
QNiPOC	quality POC for Ni	gNi/gC	PartWK_Ni
QNiPHYT	quality phytoplankton for Ni	gNi/gC	PartWK_Ni
FrPbIM1	fraction Pb adsorbed to IM1	-	PartWK_Pb
FrPbIM2	fraction Pb adsorbed to IM2	-	PartWK_Pb
FrPbIM3	fraction Pb adsorbed to IM3	-	PartWK_Pb
FrPbPOC	fraction Pb adsorbed to POC	-	PartWK_Pb
FrPbPHYT	fraction Pb adsorbed to phytoplankton	-	PartWK_Pb
QPbIM1	quality IM1 for Pb	gPb/gDM	PartWK_Pb
QPbIM2	quality IM2 for Pb	gPb/gDM	PartWK_Pb
QPbIM3	quality IM3 for Pb	gPb/gDM	PartWK_Pb
QPbPOC	quality POC for Pb	gPb/gC	PartWK_Pb
QPbPHYT	quality phytoplankton for Pb	gPb/gC	PartWK_Pb
FrAsIM1	fraction As adsorbed to IM1	-	PartWK_As
FrAsIM2	fraction As adsorbed to IM2	-	PartWK_As
FrAsIM3	fraction As adsorbed to IM3	-	PartWK_As
FrAsPOC	fraction As adsorbed to POC	-	PartWK_As
FrAsPHYT	fraction As adsorbed to phytoplankton	-	PartWK_As
QAsIM1	quality IM1 for As	gAs/gDM	PartWK_As
QAsIM2	quality IM2 for As	gAs/gDM	PartWK_As
QAsIM3	quality IM3 for As	gAs/gDM	PartWK_As

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Table 8.1 – continued from previous page

Process	Description	Unit	Process
QAsPOC	quality POC for As	gAs/gC	PartWK_As
QAsPHYT	quality phytoplankton for As	gAs/gC	PartWK_As
FrVaIM1	fraction Va adsorbed to IM1	-	PartWK_Va
FrVaIM2	fraction Va adsorbed to IM2	-	PartWK_Va
FrVaIM3	fraction Va adsorbed to IM3	-	PartWK_Va
FrVaPOC	fraction Va adsorbed to POC	-	PartWK_Va
FrVaPHYT	fraction Va adsorbed to phytoplankton	-	PartWK_Va
QVaIM1	quality IM1 for Va	gVa/gDM	PartWK_Va
QVaIM2	quality IM2 for Va	gVa/gDM	PartWK_Va
QVaIM3	quality IM3 for Va	gVa/gDM	PartWK_Va
QVaPOC	quality POC for Va	gVa/gC	PartWK_Va
QVaPHYT	quality phytoplankton for Va	gVa/gC	PartWK_Va
FrZnIM1	fraction Zn adsorbed to IM1	-	PartWK_Zn
FrZnIM2	fraction Zn adsorbed to IM2	-	PartWK_Zn
FrZnIM3	fraction Zn adsorbed to IM3	-	PartWK_Zn
FrZnPOC	fraction Zn adsorbed to POC	-	PartWK_Zn
FrZnPHYT	fraction Zn adsorbed to phytoplankton	-	PartWK_Zn
QZnIM1	quality IM1 for Zn	gZn/gDM	PartWK_Zn
QZnIM2	quality IM2 for Zn	gZn/gDM	PartWK_Zn
QZnIM3	quality IM3 for Zn	gZn/gDM	PartWK_Zn
QZnPOC	quality POC for Zn	gZn/gC	PartWK_Zn
QZnPHYT	quality phytoplankton for Zn	gZn/gC	PartWK_Zn
SWPoreChS1	switch for oxic 1 or sulfidic 0 pore water	-	SwOXYParWK
DisSS1	S- in layer S1	(mol l)	SPECSUDS1
DisHSS1	HS- in layer S1	(mol l)	SPECSUDS1
QCdDMS1	overall sediment quality for Cd in S1	mgCd/kgDM	PartS1_Cd
QCrDMS1	overall sediment quality for Cr in S1	mgCr/kgDM	PartS1_Cr
QCuDMS1	overall sediment quality for Cu in S1	mgCu/kgDM	PartS1_Cu
QHgDMS1	overall sediment quality for Hg in S1	mgHg/kgDM	PartS1_Hg
QNiDMS1	overall sediment quality for Ni in S1	mgNi/kgDM	PartS1_Ni
QPbDMS1	overall sediment quality for Pb in S1	mgPb/kgDM	PartS1_Pb
QAsDMS1	overall sediment quality for As in S1	mgAs/kgDM	PartS1_As
QVaDMS1	overall sediment quality for Va in S1	mgVa/kgDM	PartS1_Va
QZnDMS1	overall sediment quality for Zn in S1	mgZn/kgDM	PartS1_Zn
SWPoreChS2	switch for oxic 1 or sulfidic 0 pore water	-	SwOXYParWK
DisSS2	S- in layer S2	(mol l)	SPECSUDS2
DisHSS2	HS- in layer S2	(mol l)	SPECSUDS2
QCdDMS2	overall sediment quality for Cd in S2	mgCd/kgDM	PartS2_Cd
QCrDMS2	overall sediment quality for Cr in S2	mgCr/kgDM	PartS2_Cr
QCuDMS2	overall sediment quality for Cu in S2	mgCu/kgDM	PartS2_Cu
QHgDMS2	overall sediment quality for Hg in S2	mgHg/kgDM	PartS2_Hg
QNiDMS2	overall sediment quality for Ni in S2	mgNi/kgDM	PartS2_Ni
QPbDMS2	overall sediment quality for Pb in S2	mgPb/kgDM	PartS2_Pb
QAsDMS2	overall sediment quality for As in S2	mgAs/kgDM	PartS2_As
QVaDMS2	overall sediment quality for Va in S2	mgVa/kgDM	PartS2_Va
QZnDMS2	overall sediment quality for Zn in S2	mgZn/kgDM	PartS2_Zn
Fr153DisS1	fraction free dissolved 153 in layer S1	-	PartS1_153
Fr153DOCS1	fraction 153 adsorbed to DOC in layer S1	-	PartS1_153
Q153DMS1	overall sediment quality for 153 in S1	mg153/kgDM	PartS1_153
FrAtrDisS1	fraction free dissolved Atr in layer S1	-	PartS1_Atr
FrAtrDOCS1	fraction Atr adsorbed to DOC in layer S1	-	PartS1_Atr
QAtrDMS1	overall sediment quality for Atr in S1	mgAtr/kgDM	PartS1_Atr
FrBaPDisS1	fraction free dissolved BaP in layer S1	-	PartS1_BaP
FrBaPDOCS1	fraction BaP adsorbed to DOC in layer S1	-	PartS1_BaP
QBaPDMS1	overall sediment quality for BaP in S1	mgBaP/kgDM	PartS1_BaP
FrDiuDisS1	fraction free dissolved Diu in layer S1	-	PartS1_Diu
FrDiuDOCS1	fraction Diu adsorbed to DOC in layer S1	-	PartS1_Diu
QDiuDMS1	overall sediment quality for Diu in S1	mgDiu/kgDM	PartS1_Diu
FrFluDisS1	fraction free dissolved Flu in layer S1	-	PartS1_Flu
FrFluDOCS1	fraction Flu adsorbed to DOC in layer S1	-	PartS1_Flu
QFluDMS1	overall sediment quality for Flu in S1	mgFlu/kgDM	PartS1_Flu
FrHCBDisS1	fraction free dissolved HCB in layer S1	-	PartS1_HCB
FrHCBDOCS1	fraction HCB adsorbed to DOC in layer S1	-	PartS1_HCB
QHCB DMS1	overall sediment quality for HCB in S1	mgHCB/kgDM	PartS1_HCB
FrHCHDisS1	fraction free dissolved HCH in layer S1	-	PartS1_HCH
FrHCHDOCS1	fraction HCH adsorbed to DOC in layer S1	-	PartS1_HCH
QHCH DMS1	overall sediment quality for HCH in S1	mgHCH/kgDM	PartS1_HCH
FrMefDisS1	fraction free dissolved Mef in layer S1	-	PartS1_Mef
FrMefDOCS1	fraction Mef adsorbed to DOC in layer S1	-	PartS1_Mef
QMefDMS1	overall sediment quality for Mef in S1	mgMef/kgDM	PartS1_Mef
Fr153DisS2	fraction free dissolved 153 in layer S2	-	PartS2_153

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Table 8.1 – continued from previous page

Process	Description	Unit	Process
Fr153DOCS2	fraction 153 adsorbed to DOC in layer S2	-	PartS2_153
Q153DMS2	overall sediment quality for 153 in S2	mg153/kgDM	PartS2_153
FrAtrDisS2	fraction free dissolved Atr in layer S2	-	PartS2_Atr
FrAtrDOCS2	fraction Atr adsorbed to DOC in layer S2	-	PartS2_Atr
QAtrDMS2	overall sediment quality for Atr in S2	mgAtr/kgDM	PartS2_Atr
FrBaPDisS2	fraction free dissolved BaP in layer S2	-	PartS2_BaP
FrBaPDOCS2	fraction BaP adsorbed to DOC in layer S2	-	PartS2_BaP
QBaPDMS2	overall sediment quality for BaP in S2	mgBaP/kgDM	PartS2_BaP
FrDiuDisS2	fraction free dissolved Diu in layer S2	-	PartS2_Diu
FrDiuDOCS2	fraction Diu adsorbed to DOC in layer S2	-	PartS2_Diu
QDiuDMS2	overall sediment quality for Diu in S2	mgDiu/kgDM	PartS2_Diu
FrFluDisS2	fraction free dissolved Flu in layer S2	-	PartS2_Flu
FrFluDOCS2	fraction Flu adsorbed to DOC in layer S2	-	PartS2_Flu
QFluDMS2	overall sediment quality for Flu in S2	mgFlu/kgDM	PartS2_Flu
FrHCBDisS2	fraction free dissolved HCB in layer S2	-	PartS2_HCB
FrHCBDOCS2	fraction HCB adsorbed to DOC in layer S2	-	PartS2_HCB
QHCBDMS2	overall sediment quality for HCB in S2	mgHCB/kgDM	PartS2_HCB
FrHCHDisS2	fraction free dissolved HCH in layer S2	-	PartS2_HCH
FrHCHDOCS2	fraction HCH adsorbed to DOC in layer S2	-	PartS2_HCH
QHCHDMS2	overall sediment quality for HCH in S2	mgHCH/kgDM	PartS2_HCH
FrMefDisS2	fraction free dissolved Mef in layer S2	-	PartS2_Mef
FrMefDOCS2	fraction Mef adsorbed to DOC in layer S2	-	PartS2_Mef
QMefDMS2	overall sediment quality for Mef in S2	mgMef/kgDM	PartS2_Mef
Fr153Dis	fraction free dissolved 153 in water column	-	PartWK_153
Fr153DOC	fraction 153 adsorbed to DOC	-	PartWK_153
Fr153POC	fraction 153 adsorbed to POC	-	PartWK_153
Fr153PHYT	fraction 153 adsorbed to phytoplankton	-	PartWK_153
Dis153	free dissolved 153 in water column	g153/m ³	PartWK_153
Q153POC	quality POC for 153 in water column	g153/gC	PartWK_153
Q153PHYT	quality phytoplankton for 153 in water column	g153/gC	PartWK_153
FrAtrDis	fraction free dissolved Atr in water column	-	PartWK_Atr
FrAtrDOC	fraction Atr adsorbed to DOC	-	PartWK_Atr
FrAtrPOC	fraction Atr adsorbed to POC	-	PartWK_Atr
FrAtrPHYT	fraction Atr adsorbed to phytoplankton	-	PartWK_Atr
DisAtr	free dissolved Atrazine in water column	gAtr/m ³	PartWK_Atr
QAtrPOC	quality POC for Atrazine in water column	gAtr/gC	PartWK_Atr
QAtrPHYT	quality phytoplankton for Atrazine in water column	gAtr/gC	PartWK_Atr
FrBaPDis	fraction free dissolved BaP in water column	-	PartWK_BaP
FrBaPDOC	fraction BaP adsorbed to DOC	-	PartWK_BaP
FrBaPPOC	fraction BaP adsorbed to POC	-	PartWK_BaP
FrBaPPHYT	fraction BaP adsorbed to phytoplankton	-	PartWK_BaP
DisBaP	free dissolved BaP in water column	gBaP/m ³	PartWK_BaP
QBaPPOC	quality POC for BaP in water column	gBaP/gC	PartWK_BaP
QBaPPHYT	quality phytoplankton for BaP in water column	gBaP/gC	PartWK_BaP
FrDiuDis	fraction free dissolved Diu in water column	-	PartWK_Diu
FrDiuDOC	fraction Diu adsorbed to DOC	-	PartWK_Diu
FrDiuPOC	fraction Diu adsorbed to POC	-	PartWK_Diu
FrDiuPHYT	fraction Diu adsorbed to phytoplankton	-	PartWK_Diu
DisDiu	free dissolved Diu in water column	gDiu/m ³	PartWK_Diu
QDiuPOC	quality POC for Diu in water column	gDiu/gC	PartWK_Diu
QDiuPHYT	quality phytoplankton for Diu in water column	gDiu/gC	PartWK_Diu
FrFluDis	fraction free dissolved Flu in water column	-	PartWK_Flu
FrFluDOC	fraction Flu adsorbed to DOC	-	PartWK_Flu
FrFluPOC	fraction Flu adsorbed to POC	-	PartWK_Flu
FrFluPHYT	fraction Flu adsorbed to phytoplankton	-	PartWK_Flu
DisFlu	free dissolved Flu in water column	gFlu/m ³	PartWK_Flu
QFluPOC	quality POC for Flu in water column	gFlu/gC	PartWK_Flu
QFluPHYT	quality phytoplankton for Flu in water column	gFlu/gC	PartWK_Flu
FrHCBDis	fraction free dissolved HCB in water column	-	PartWK_HCB
FrHCBDOC	fraction HCB adsorbed to DOC	-	PartWK_HCB
FrHCBPOC	fraction HCB adsorbed to POC	-	PartWK_HCB
FrHCBPHYT	fraction HCB adsorbed to phytoplankton	-	PartWK_HCB
DisHCB	free dissolved HCB in water column	gHCB/m ³	PartWK_HCB
QHCBPOC	quality POC for HCB in water column	gHCB/gC	PartWK_HCB
QHCBPHYT	quality phytoplankton for HCB in water column	gHCB/gC	PartWK_HCB
FrHCHDis	fraction free dissolved HCH in water column	-	PartWK_HCH
FrHCHDOC	fraction HCH adsorbed to DOC	-	PartWK_HCH
FrHCHPOC	fraction HCH adsorbed to POC	-	PartWK_HCH
FrHCHPHYT	fraction HCH adsorbed to phytoplankton	-	PartWK_HCH
DisHCH	free dissolved HCH in water column	gHCH/m ³	PartWK_HCH
QHCHPOC	quality POC for HCH in water column	gHCH/gC	PartWK_HCH

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Table 8.1 – continued from previous page

Process	Description	Unit	Process
QHCHPHYT	quality phytoplankton for HCH in water column	gHCH/gC	PartWK_HCH
FrMefDis	fraction free dissolved Mef in water column	-	PartWK_Mef
FrMefDOC	fraction Mef adsorbed to DOC	-	PartWK_Mef
FrMefPOC	fraction Mef adsorbed to POC	-	PartWK_Mef
FrMefPHYT	fraction Mef adsorbed to phytoplankton	-	PartWK_Mef
DisMef	free dissolved Mef in water column	gMef/m ³	PartWK_Mef
QMefPOC	quality POC for Mef in water column	gMef/gC	PartWK_Mef
QMefPHYT	quality phytoplankton for Mef in water column	gMef/gC	PartWK_Mef
CZooplank	calculated concentration of zooplankton-grazer1	gC/m ³	CONSBL
CMussel	calculated concentration of mussel-grazer2	gC/m ³	CONSBL
CGrazer3	calculated concentration of Grazer3	gC/m ³	CONSBL
CGrazer4	calculated concentration of Grazer4	gC/m ³	CONSBL
CGrazer5	calculated concentration of Grazer5	gC/m ³	CONSBL
KI153	liquid phase exchange coefficient 153	m/d	TrCoef_153
Kg153	gas phase exchange coefficient 153	m/d	TrCoef_153
KIHCB	liquid phase exchange coefficient HCB	m/d	TrCoef_HCB
KgHCB	gas phase exchange coefficient HCB	m/d	TrCoef_HCB
KIHCH	liquid phase exchange coefficient HCH	m/d	TrCoef_HCH
KgHCH	gas phase exchange coefficient HCH	m/d	TrCoef_HCH
KIFlu	liquid phase exchange coefficient Flu	m/d	TrCoef_Flu
KgFlu	gas phase exchange coefficient Flu	m/d	TrCoef_Flu
KIBaP	liquid phase exchange coefficient BaP	m/d	TrCoef_BaP
KgBaP	gas phase exchange coefficient BaP	m/d	TrCoef_BaP
KIAtr	liquid phase exchange coefficient Atrazine	m/d	TrCoef_Atr
KgAtr	gas phase exchange coefficient Atrazine	m/d	TrCoef_Atr
KIMef	liquid phase exchange coefficient Mef	m/d	TrCoef_Mef
KgMef	gas phase exchange coefficient Mef	m/d	TrCoef_Mef
KIDiu	liquid phase exchange coefficient Diu	m/d	TrCoef_Diu
KgDiu	gas phase exchange coefficient Diu	m/d	TrCoef_Diu
FrOMPDIsS1	fraction free dissolved OMP in S1	-	PartS1_OMP
FrOMPDOCS1	fraction OMP in S1 adsorbed to DOC	-	PartS1_OMP
QOMPDMS1	overall sediment quality for OMP in S1	mgOMP/kgDM	PartS1_OMP
FrOMPDIsS2	fraction free dissolved OMP in S2	-	PartS2_OMP
FrOMPDOCS2	fraction OMP in S2 adsorbed to DOC	-	PartS2_OMP
QOMPDMS2	overall sediment quality for OMP in S2	mgOMP/kgDM	PartS2_OMP
FrOMPDIs	fraction free dissolved OMP in water column	-	PartWK_OMP
FrOMPDOC	fraction OMP adsorbed to DOC	-	PartWK_OMP
FrOMPPOC	fraction OMP adsorbed to POC	-	PartWK_OMP
FrOMPPHYT	fraction OMP adsorbed to PHYT	-	PartWK_OMP
DisOMP	free dissolved OMP in water column	gOMP/m ³	PartWK_OMP
QOMPPOC	quality POC for OMP in water column	gOMP/gC	PartWK_OMP
QOMPPHYT	quality PHYT for OMP in water column	gOMP/gC	PartWK_OMP
KIOMP	liquid phase exchange coefficient OMP	m/d	TrCoef_OMP
KgOMP	gas phase exchange coefficient OMP	m/d	TrCoef_OMP
VB01Navail	VB01 nitrogen availability in rooting zone	gN/m ²	VB01availN
VB01Pavail	VB01 phosphorus availability in rooting z.	gP/m ²	VB01availN
VB01Savail	VB01 sulfur availability in rooting zone	gS/m ²	VB01availN
nsfVB01	nr successive emersionflood VB01	d	VBStatus01
nsnlVB01	number of successive days nutrient lim. VB01	d	VBStatus01
SwVB01Gro	vegetation biomass growth allowed 0=no,1=yes	-	VBStatus01
SwVB01Mrt	vegetation biomass dead 0=no,1=yes	-	VBStatus01
ageVB01	age of vegetation cohort 1	d	VBGrowth01
SWVB01Dec	biomass is decaying after prev mort type 1	-	VBGrowth01
fVB01	area scaled flux dVB01	gC/(m ² d)	VBGrowth01
fC2VB01P1	mortality foliage VB01 to POC1	gC/(m ² d)	VB Mort01
fC2VB01P2	mortality foliage VB01 to POC2	gC/(m ² d)	VB Mort01
fC2VB01P3	mortality foliage VB01 to POC3	gC/(m ² d)	VB Mort01
fN2VB01P1	mortality foliage VB01 to PON1	gN/(m ² d)	VB Mort01
fN2VB01P2	mortality foliage VB01 to PON2	gN/(m ² d)	VB Mort01
fN2VB01P3	mortality foliage VB01 to PON3	gN/(m ² d)	VB Mort01
fP2VB01P1	mortality foliage VB01 to POP1	gP/(m ² d)	VB Mort01
fP2VB01P2	mortality foliage VB01 to POP2	gP/(m ² d)	VB Mort01
fP2VB01P3	mortality foliage VB01 to POP3	gP/(m ² d)	VB Mort01
fS2VB01P1	mortality foliage VB01 to POS1	gS/(m ² d)	VB Mort01
fS2VB01P2	mortality foliage VB01 to POS2	gS/(m ² d)	VB Mort01
fS2VB01P3	mortality foliage VB01 to POS3	gS/(m ² d)	VB Mort01
fC5VB01P1	mortality fineroot VB01 to POC1	gC/(m ² d)	VB Mort01
fC5VB01P2	mortality fineroot VB01 to POC2	gC/(m ² d)	VB Mort01
fC5VB01P3	mortality fineroot VB01 to POC3	gC/(m ² d)	VB Mort01
fN5VB01P1	mortality fineroot VB01 to PON1	gN/(m ² d)	VB Mort01

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Table 8.1 – continued from previous page

Process	Description	Unit	Process
fN5VB01P2	mortality fineroot VB01 to PON2	gN/(m ² d)	VB Mort01
fN5VB01P3	mortality fineroot VB01 to PON3	gN/(m ² d)	VB Mort01
fP5VB01P1	mortality fineroot VB01 to POP1	gP/(m ² d)	VB Mort01
fP5VB01P2	mortality fineroot VB01 to POP2	gP/(m ² d)	VB Mort01
fP5VB01P3	mortality fineroot VB01 to POP3	gP/(m ² d)	VB Mort01
fS5VB01P1	mortality fineroot VB01 to POS1	gS/(m ² d)	VB Mort01
fS5VB01P2	mortality fineroot VB01 to POS2	gS/(m ² d)	VB Mort01
fS5VB01P3	mortality fineroot VB01 to POS3	gS/(m ² d)	VB Mort01
fC1VB01P5	mortality stem VB01tto POC5	gC/m ³ /d	VB Mort01
fC3VB01P5	mortality branch VB01 to POC5	gC/m ³ /d	VB Mort01
fC4VB01P5	mortality root VB01 to POC5	gC/m ³ /d	VB Mort01
fN1VB01P5	mortality stem VB01tto PON5	gN/m ³ /d	VB Mort01
fN3VB01P5	mortality branch VB01 to PON5	gN/m ³ /d	VB Mort01
fN4VB01P5	mortality root VB01 to PON5	gN/m ³ /d	VB Mort01
fP1VB01P5	mortality stem VB01tto POP5	gP/m ³ /d	VB Mort01
fP3VB01P5	mortality branch VB01 to POP5	gP/m ³ /d	VB Mort01
fP4VB01P5	mortality root VB01 to POP5	gP/m ³ /d	VB Mort01
fS1VB01P5	mortality stem VB01tto POS5	gS/m ³ /d	VB Mort01
fS3VB01P5	mortality branch VB01 to POS5	gS/m ³ /d	VB Mort01
fS4VB01P5	mortality root VB01 to POS5	gS/m ³ /d	VB Mort01
fNVB01up	uptake fineroots VB01	gN/(m ² d)	VB01Upt
fPVB01up	uptake roots VB01	gP/(m ² d)	VB01Upt
fSVB01up	uptake roots VB01	gS/(m ² d)	VB01Upt
VB02Navail	VB02 nitrogen availability in rooting zone	gN/m ²	VB02avaiN
VB02Pavail	VB02 phosphorus availability in rooting z.	gP/m ²	VB02avaiN
VB02Savail	VB02 sulfur availability in rooting zone	gS/m ²	VB02avaiN
nsnlVB02	number of successive days nutrient lim. VB02	d	VBStatus02
SwVB02Gro	vegetation biomass growth allowed 0=no,1=yes	-	VBStatus02
SwVB02Mrt	vegetation biomass dead 0=no,1=yes	-	VBStatus02
nsfVB02	nr successive emersionflood VB02	d	VBStatus02
ageVB02	age of vegetation cohort 2	d	VBGrowth02
SWVB02Dec	biomass is decaying after prev mort type 2	-	VBGrowth02
fVB02	area scaled flux dVB02	gC/(m ² d)	VBGrowth02
fC2VB02P1	mortality foliage VB02 to POC1	gC/(m ² d)	VB Mort02
fC2VB02P2	mortality foliage VB02 to POC2	gC/(m ² d)	VB Mort02
fC2VB02P3	mortality foliage VB02 to POC3	gC/(m ² d)	VB Mort02
fN2VB02P1	mortality foliage VB02 to PON1	gN/(m ² d)	VB Mort02
fN2VB02P2	mortality foliage VB02 to PON2	gN/(m ² d)	VB Mort02
fN2VB02P3	mortality foliage VB02 to PON3	gN/(m ² d)	VB Mort02
fP2VB02P1	mortality foliage VB02 to POP1	gP/(m ² d)	VB Mort02
fP2VB02P2	mortality foliage VB02 to POP2	gP/(m ² d)	VB Mort02
fP2VB02P3	mortality foliage VB02 to POP3	gP/(m ² d)	VB Mort02
fS2VB02P1	mortality foliage VB02 to POS1	gS/(m ² d)	VB Mort02
fS2VB02P2	mortality foliage VB02 to POS2	gS/(m ² d)	VB Mort02
fS2VB02P3	mortality foliage VB02 to POS3	gS/(m ² d)	VB Mort02
fC5VB02P1	mortality fineroot VB02 to POC1	gC/(m ² d)	VB Mort02
fC5VB02P2	mortality fineroot VB02 to POC2	gC/(m ² d)	VB Mort02
fC5VB02P3	mortality fineroot VB02 to POC3	gC/(m ² d)	VB Mort02
fN5VB02P1	mortality fineroot VB02 to PON1	gN/(m ² d)	VB Mort02
fN5VB02P2	mortality fineroot VB02 to PON2	gN/(m ² d)	VB Mort02
fN5VB02P3	mortality fineroot VB02 to PON3	gN/(m ² d)	VB Mort02
fP5VB02P1	mortality fineroot VB02 to POP1	gP/(m ² d)	VB Mort02
fP5VB02P2	mortality fineroot VB02 to POP2	gP/(m ² d)	VB Mort02
fP5VB02P3	mortality fineroot VB02 to POP3	gP/(m ² d)	VB Mort02
fS5VB02P1	mortality fineroot VB02 to POS1	gS/(m ² d)	VB Mort02
fS5VB02P2	mortality fineroot VB02 to POS2	gS/(m ² d)	VB Mort02
fS5VB02P3	mortality fineroot VB02 to POS3	gS/(m ² d)	VB Mort02
fC1VB02P5	mortality stem VB02tto POC5	gC/m ³ /d	VB Mort02
fC3VB02P5	mortality branch VB02 to POC5	gC/m ³ /d	VB Mort02
fC4VB02P5	mortality root VB02 to POC5	gC/m ³ /d	VB Mort02
fN1VB02P5	mortality stem VB02tto PON5	gN/m ³ /d	VB Mort02
fN3VB02P5	mortality branch VB02 to PON5	gN/m ³ /d	VB Mort02
fN4VB02P5	mortality root VB02 to PON5	gN/m ³ /d	VB Mort02
fP1VB02P5	mortality stem VB02tto POP5	gP/m ³ /d	VB Mort02
fP3VB02P5	mortality branch VB02 to POP5	gP/m ³ /d	VB Mort02
fP4VB02P5	mortality root VB02 to POP5	gP/m ³ /d	VB Mort02
fS1VB02P5	mortality stem VB02tto POS5	gS/m ³ /d	VB Mort02
fS3VB02P5	mortality branch VB02 to POS5	gS/m ³ /d	VB Mort02

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Table 8.1 – continued from previous page

Process	Description	Unit	Process
fS4VB02P5	mortality root VB02 to POS5	gS/m ³ /d	VB02Mort02
fNVB02up	uptake fineroots VB02	gN/(m ² d)	VB02Upt
fPVB02up	uptake roots VB02	gP/(m ² d)	VB02Upt
fSVB02up	uptake roots VB02	gS/(m ² d)	VB02Upt
VB03Navail	VB03 nitrogen availability in rooting zone	gN/m ²	VB03availN
VB03Pavail	VB03 phosphorus availability in rooting z.	gP/m ²	VB03availN
VB03Savail	VB03 sulfur availability in rooting zone	gS/m ²	VB03availN
nsnVB03	number of successive days nutrient lim. VB03	d	VBStatus03
SwVB03Gro	vegetation biomass growth allowed 0=no,1=yes	-	VBStatus03
SwVB03Mrt	vegetation biomass dead 0=no,1=yes	-	VBStatus03
nsfVB03	nr successive emersionflood VB03	d	VBStatus03
ageVB03	age of vegetation cohort 3	d	VBGrowth03
SWVB03Dec	biomass is decaying after prev mort type 3	-	VBGrowth03
fVB03	area scaled flux dVB03	gC/(m ² d)	VBGrowth03
fC2VB03P1	mortality foliage VB03 to POC1	gC/(m ² d)	VB03Mort03
fC2VB03P2	mortality foliage VB03 to POC2	gC/(m ² d)	VB03Mort03
fC2VB03P3	mortality foliage VB03 to POC3	gC/(m ² d)	VB03Mort03
fN2VB03P1	mortality foliage VB03 to PON1	gN/(m ² d)	VB03Mort03
fN2VB03P2	mortality foliage VB03 to PON2	gN/(m ² d)	VB03Mort03
fN2VB03P3	mortality foliage VB03 to PON3	gN/(m ² d)	VB03Mort03
fP2VB03P1	mortality foliage VB03 to POP1	gP/(m ² d)	VB03Mort03
fP2VB03P2	mortality foliage VB03 to POP2	gP/(m ² d)	VB03Mort03
fP2VB03P3	mortality foliage VB03 to POP3	gP/(m ² d)	VB03Mort03
fS2VB03P1	mortality foliage VB03 to POS1	gS/(m ² d)	VB03Mort03
fS2VB03P2	mortality foliage VB03 to POS2	gS/(m ² d)	VB03Mort03
fS2VB03P3	mortality foliage VB03 to POS3	gS/(m ² d)	VB03Mort03
fC5VB03P1	mortality fineroot VB03 to POC1	gC/(m ² d)	VB03Mort03
fC5VB03P2	mortality fineroot VB03 to POC2	gC/(m ² d)	VB03Mort03
fC5VB03P3	mortality fineroot VB03 to POC3	gC/(m ² d)	VB03Mort03
fN5VB03P1	mortality fineroot VB03 to PON1	gN/(m ² d)	VB03Mort03
fN5VB03P2	mortality fineroot VB03 to PON2	gN/(m ² d)	VB03Mort03
fN5VB03P3	mortality fineroot VB03 to PON3	gN/(m ² d)	VB03Mort03
fP5VB03P1	mortality fineroot VB03 to POP1	gP/(m ² d)	VB03Mort03
fP5VB03P2	mortality fineroot VB03 to POP2	gP/(m ² d)	VB03Mort03
fP5VB03P3	mortality fineroot VB03 to POP3	gP/(m ² d)	VB03Mort03
fS5VB03P1	mortality fineroot VB03 to POS1	gS/(m ² d)	VB03Mort03
fS5VB03P2	mortality fineroot VB03 to POS2	gS/(m ² d)	VB03Mort03
fS5VB03P3	mortality fineroot VB03 to POS3	gS/(m ² d)	VB03Mort03
fC1VB03P5	mortality stem VB03tto POC5	gC/m ³ /d	VB03Mort03
fC3VB03P5	mortality branch VB03 to POC5	gC/m ³ /d	VB03Mort03
fC4VB03P5	mortality root VB03 to POC5	gC/m ³ /d	VB03Mort03
fN1VB03P5	mortality stem VB03tto PON5	gN/m ³ /d	VB03Mort03
fN3VB03P5	mortality branch VB03 to PON5	gN/m ³ /d	VB03Mort03
fN4VB03P5	mortality root VB03 to PON5	gN/m ³ /d	VB03Mort03
fP1VB03P5	mortality stem VB03tto POP5	gP/m ³ /d	VB03Mort03
fP3VB03P5	mortality branch VB03 to POP5	gP/m ³ /d	VB03Mort03
fP4VB03P5	mortality root VB03 to POP5	gP/m ³ /d	VB03Mort03
fS1VB03P5	mortality stem VB03tto POS5	gS/m ³ /d	VB03Mort03
fS3VB03P5	mortality branch VB03 to POS5	gS/m ³ /d	VB03Mort03
fS4VB03P5	mortality root VB03 to POS5	gS/m ³ /d	VB03Mort03
fNVB03up	uptake fineroots VB03	gN/(m ² d)	VB03Upt
fPVB03up	uptake roots VB03	gP/(m ² d)	VB03Upt
fSVB03up	uptake roots VB03	gS/(m ² d)	VB03Upt
VB04Navail	VB04 nitrogen availability in rooting zone	gN/m ²	VB04availN
VB04Pavail	VB04 phosphorus availability in rooting z.	gP/m ²	VB04availN
VB04Savail	VB04 sulfur availability in rooting zone	gS/m ²	VB04availN
nsnVB04	number of successive days nutrient lim. VB04	d	VBStatus04
SwVB04Gro	vegetation biomass growth allowed 0=no,1=yes	-	VBStatus04
SwVB04Mrt	vegetation biomass dead 0=no,1=yes	-	VBStatus04
nsfVB04	nr successive emersionflood VB04	d	VBStatus04
ageVB04	age of vegetation cohort 4	d	VBGrowth04
SWVB04Dec	biomass is decaying after prev mort type 4	-	VBGrowth04
fVB04	area scaled flux dVB04	gC/(m ² d)	VBGrowth04
fC2VB04P1	mortality foliage VB04 to POC1	gC/(m ² d)	VB04Mort04
fC2VB04P2	mortality foliage VB04 to POC2	gC/(m ² d)	VB04Mort04
fC2VB04P3	mortality foliage VB04 to POC3	gC/(m ² d)	VB04Mort04
fN2VB04P1	mortality foliage VB04 to PON1	gN/(m ² d)	VB04Mort04
fN2VB04P2	mortality foliage VB04 to PON2	gN/(m ² d)	VB04Mort04

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Table 8.1 – continued from previous page

Process	Description	Unit	Process
fN2VB04P3	mortality foliage VB04 to PON3	gN/(m ² d)	VB Mort04
fP2VB04P1	mortality foliage VB04 to POP1	gP/(m ² d)	VB Mort04
fP2VB04P2	mortality foliage VB04 to POP2	gP/(m ² d)	VB Mort04
fP2VB04P3	mortality foliage VB04 to POP3	gP/(m ² d)	VB Mort04
fS2VB04P1	mortality foliage VB04 to POS1	gS/(m ² d)	VB Mort04
fS2VB04P2	mortality foliage VB04 to POS2	gS/(m ² d)	VB Mort04
fS2VB04P3	mortality foliage VB04 to POS3	gS/(m ² d)	VB Mort04
fC5VB04P1	mortality fineroot VB04 to POC1	gC/(m ² d)	VB Mort04
fC5VB04P2	mortality fineroot VB04 to POC2	gC/(m ² d)	VB Mort04
fC5VB04P3	mortality fineroot VB04 to POC3	gC/(m ² d)	VB Mort04
fN5VB04P1	mortality fineroot VB04 to PON1	gN/(m ² d)	VB Mort04
fN5VB04P2	mortality fineroot VB04 to PON2	gN/(m ² d)	VB Mort04
fN5VB04P3	mortality fineroot VB04 to PON3	gN/(m ² d)	VB Mort04
fP5VB04P1	mortality fineroot VB04 to POP1	gP/(m ² d)	VB Mort04
fP5VB04P2	mortality fineroot VB04 to POP2	gP/(m ² d)	VB Mort04
fP5VB04P3	mortality fineroot VB04 to POP3	gP/(m ² d)	VB Mort04
fS5VB04P1	mortality fineroot VB04 to POS1	gS/(m ² d)	VB Mort04
fS5VB04P2	mortality fineroot VB04 to POS2	gS/(m ² d)	VB Mort04
fS5VB04P3	mortality fineroot VB04 to POS3	gS/(m ² d)	VB Mort04
fC1VB04P5	mortality stem VB04 to POC5	gC/m ³ /d	VB Mort04
fC3VB04P5	mortality branch VB04 to POC5	gC/m ³ /d	VB Mort04
fC4VB04P5	mortality root VB04 to POC5	gC/m ³ /d	VB Mort04
fN1VB04P5	mortality stem VB04 to PON5	gN/m ³ /d	VB Mort04
fN3VB04P5	mortality branch VB04 to PON5	gN/m ³ /d	VB Mort04
fN4VB04P5	mortality root VB04 to PON5	gN/m ³ /d	VB Mort04
fP1VB04P5	mortality stem VB04 to POP5	gP/m ³ /d	VB Mort04
fP3VB04P5	mortality branch VB04 to POP5	gP/m ³ /d	VB Mort04
fP4VB04P5	mortality root VB04 to POP5	gP/m ³ /d	VB Mort04
fS1VB04P5	mortality stem VB04 to POS5	gS/m ³ /d	VB Mort04
fS3VB04P5	mortality branch VB04 to POS5	gS/m ³ /d	VB Mort04
fS4VB04P5	mortality root VB04 to POS5	gS/m ³ /d	VB Mort04
fNVB04up	uptake fineroots VB04	gN/(m ² d)	VB04Upt
fPVB04up	uptake roots VB04	gP/(m ² d)	VB04Upt
fSVB04up	uptake roots VB04	gS/(m ² d)	VB04Upt
VB05Navail	VB05 nitrogen availability in rooting zone	gN/m ²	VB05availN
VB05Pavail	VB05 phosphorus availability in rooting z.	gP/m ²	VB05availP
VB05Savail	VB05 sulfur availability in rooting zone	gS/m ²	VB05availS
nsnVB05	number of successive days nutrient lim. VB05	d	VBStatus05
SwVB05Gro	vegetation biomass growth allowed 0=no,1=yes	-	VBStatus05
SwVB05Mrt	vegetation biomass dead 0=no,1=yes	-	VBStatus05
nsfVB05	nr successive emersion/flood VB05	d	VBStatus05
ageVB05	age of vegetation cohort 5	d	VBGrowth05
SWVB05Dec	biomass is decaying after prev mort type 5	-	VBGrowth05
fVB05	area scaled flux dVB05	gC/(m ² d)	VBGrowth05
fC2VB05P1	mortality foliage VB05 to POC1	gC/(m ² d)	VB Mort05
fC2VB05P2	mortality foliage VB05 to POC2	gC/(m ² d)	VB Mort05
fC2VB05P3	mortality foliage VB05 to POC3	gC/(m ² d)	VB Mort05
fN2VB05P1	mortality foliage VB05 to PON1	gN/(m ² d)	VB Mort05
fN2VB05P2	mortality foliage VB05 to PON2	gN/(m ² d)	VB Mort05
fN2VB05P3	mortality foliage VB05 to PON3	gN/(m ² d)	VB Mort05
fP2VB05P1	mortality foliage VB05 to POP1	gP/(m ² d)	VB Mort05
fP2VB05P2	mortality foliage VB05 to POP2	gP/(m ² d)	VB Mort05
fP2VB05P3	mortality foliage VB05 to POP3	gP/(m ² d)	VB Mort05
fS2VB05P1	mortality foliage VB05 to POS1	gS/(m ² d)	VB Mort05
fS2VB05P2	mortality foliage VB05 to POS2	gS/(m ² d)	VB Mort05
fS2VB05P3	mortality foliage VB05 to POS3	gS/(m ² d)	VB Mort05
fC5VB05P1	mortality fineroot VB05 to POC1	gC/(m ² d)	VB Mort05
fC5VB05P2	mortality fineroot VB05 to POC2	gC/(m ² d)	VB Mort05
fC5VB05P3	mortality fineroot VB05 to POC3	gC/(m ² d)	VB Mort05
fN5VB05P1	mortality fineroot VB05 to PON1	gN/(m ² d)	VB Mort05
fN5VB05P2	mortality fineroot VB05 to PON2	gN/(m ² d)	VB Mort05
fN5VB05P3	mortality fineroot VB05 to PON3	gN/(m ² d)	VB Mort05
fP5VB05P1	mortality fineroot VB05 to POP1	gP/(m ² d)	VB Mort05
fP5VB05P2	mortality fineroot VB05 to POP2	gP/(m ² d)	VB Mort05
fP5VB05P3	mortality fineroot VB05 to POP3	gP/(m ² d)	VB Mort05
fS5VB05P1	mortality fineroot VB05 to POS1	gS/(m ² d)	VB Mort05
fS5VB05P2	mortality fineroot VB05 to POS2	gS/(m ² d)	VB Mort05
fS5VB05P3	mortality fineroot VB05 to POS3	gS/(m ² d)	VB Mort05

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Process	Description	Unit	Process
fC1VB05P5	mortality stem VB05tto POC5	gC/m ³ /d	VB05Mort05
fC3VB05P5	mortality branch VB05 to POC5	gC/m ³ /d	VB05Mort05
fC4VB05P5	mortality root VB05 to POC5	gC/m ³ /d	VB05Mort05
fN1VB05P5	mortality stem VB05tto PON5	gN/m ³ /d	VB05Mort05
fN3VB05P5	mortality branch VB05 to PON5	gN/m ³ /d	VB05Mort05
fN4VB05P5	mortality root VB05 to PON5	gN/m ³ /d	VB05Mort05
fP1VB05P5	mortality stem VB05tto POP5	gP/m ³ /d	VB05Mort05
fP3VB05P5	mortality branch VB05 to POP5	gP/m ³ /d	VB05Mort05
fP4VB05P5	mortality root VB05 to POP5	gP/m ³ /d	VB05Mort05
fS1VB05P5	mortality stem VB05tto POS5	gS/m ³ /d	VB05Mort05
fS3VB05P5	mortality branch VB05 to POS5	gS/m ³ /d	VB05Mort05
fS4VB05P5	mortality root VB05 to POS5	gS/m ³ /d	VB05Mort05
fNVB05up	uptake roots VB05	gN/(m ² d)	VB05Upt
fPVB05up	uptake roots VB05	gP/(m ² d)	VB05Upt
fSVB05up	uptake roots VB05	gS/(m ² d)	VB05Upt
VB06Navail	VB06 nitrogen availability in rooting zone	gN/m ²	VB06availN
VB06Pavail	VB06 phosphorus availability in rooting z.	gP/m ²	VB06availN
VB06Savail	VB06 sulfur availability in rooting zone	gS/m ²	VB06availN
nsnVB06	number of successive days nutrient lim. VB06	d	VBStatus06
SwVB06Gro	vegetation biomass growth allowed 0=no,1=yes	-	VBStatus06
SwVB06Mrt	vegetation biomass dead 0=no,1=yes	-	VBStatus06
nsfVB06	nr successive emersionflood VB06	d	VBStatus06
ageVB06	age of vegetation cohort 6	d	VBGrowth06
SWVB06Dec	biomass is decaying after prev mort type 6	-	VBGrowth06
fVB06	area scaled flux dVB06	gC/(m ² d)	VBGrowth06
fC2VB06P1	mortality foliage VB06 to POC1	gC/(m ² d)	VB06Mort06
fC2VB06P2	mortality foliage VB06 to POC2	gC/(m ² d)	VB06Mort06
fC2VB06P3	mortality foliage VB06 to POC3	gC/(m ² d)	VB06Mort06
fN2VB06P1	mortality foliage VB06 to PON1	gN/(m ² d)	VB06Mort06
fN2VB06P2	mortality foliage VB06 to PON2	gN/(m ² d)	VB06Mort06
fN2VB06P3	mortality foliage VB06 to PON3	gN/(m ² d)	VB06Mort06
fP2VB06P1	mortality foliage VB06 to POP1	gP/(m ² d)	VB06Mort06
fP2VB06P2	mortality foliage VB06 to POP2	gP/(m ² d)	VB06Mort06
fP2VB06P3	mortality foliage VB06 to POP3	gP/(m ² d)	VB06Mort06
fS2VB06P1	mortality foliage VB06 to POS1	gS/(m ² d)	VB06Mort06
fS2VB06P2	mortality foliage VB06 to POS2	gS/(m ² d)	VB06Mort06
fS2VB06P3	mortality foliage VB06 to POS3	gS/(m ² d)	VB06Mort06
fC5VB06P1	mortality fineroot VB06 to POC1	gC/(m ² d)	VB06Mort06
fC5VB06P2	mortality fineroot VB06 to POC2	gC/(m ² d)	VB06Mort06
fC5VB06P3	mortality fineroot VB06 to POC3	gC/(m ² d)	VB06Mort06
fN5VB06P1	mortality fineroot VB06 to PON1	gN/(m ² d)	VB06Mort06
fN5VB06P2	mortality fineroot VB06 to PON2	gN/(m ² d)	VB06Mort06
fN5VB06P3	mortality fineroot VB06 to PON3	gN/(m ² d)	VB06Mort06
fP5VB06P1	mortality fineroot VB06 to POP1	gP/(m ² d)	VB06Mort06
fP5VB06P2	mortality fineroot VB06 to POP2	gP/(m ² d)	VB06Mort06
fP5VB06P3	mortality fineroot VB06 to POP3	gP/(m ² d)	VB06Mort06
fS5VB06P1	mortality fineroot VB06 to POS1	gS/(m ² d)	VB06Mort06
fS5VB06P2	mortality fineroot VB06 to POS2	gS/(m ² d)	VB06Mort06
fS5VB06P3	mortality fineroot VB06 to POS3	gS/(m ² d)	VB06Mort06
fC1VB06P5	mortality stem VB06tto POC5	gC/m ³ /d	VB06Mort06
fC3VB06P5	mortality branch VB06 to POC5	gC/m ³ /d	VB06Mort06
fC4VB06P5	mortality root VB06 to POC5	gC/m ³ /d	VB06Mort06
fN1VB06P5	mortality stem VB06tto PON5	gN/m ³ /d	VB06Mort06
fN3VB06P5	mortality branch VB06 to PON5	gN/m ³ /d	VB06Mort06
fN4VB06P5	mortality root VB06 to PON5	gN/m ³ /d	VB06Mort06
fP1VB06P5	mortality stem VB06tto POP5	gP/m ³ /d	VB06Mort06
fP3VB06P5	mortality branch VB06 to POP5	gP/m ³ /d	VB06Mort06
fP4VB06P5	mortality root VB06 to POP5	gP/m ³ /d	VB06Mort06
fS1VB06P5	mortality stem VB06tto POS5	gS/m ³ /d	VB06Mort06
fS3VB06P5	mortality branch VB06 to POS5	gS/m ³ /d	VB06Mort06
fS4VB06P5	mortality root VB06 to POS5	gS/m ³ /d	VB06Mort06
fNVB06up	uptake fineroots VB06	gN/(m ² d)	VB06Upt
fPVB06up	uptake roots VB06	gP/(m ² d)	VB06Upt
fSVB06up	uptake roots VB06	gS/(m ² d)	VB06Upt
VB07Navail	VB07 nitrogen availability in rooting zone	gN/m ²	VB07availN
VB07Pavail	VB07 phosphorus availability in rooting z.	gP/m ²	VB07availN
VB07Savail	VB07 sulfur availability in rooting zone	gS/m ²	VB07availN
nsnVB07	number of successive days nutrient lim. VB07	d	VBStatus07

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Process	Description	Unit	Process
SwVB07Gro	vegetation biomass growth allowed 0=no,1=yes	-	VBStatus07
SwVB07Mrt	vegetation biomass dead 0=no,1=yes	-	VBStatus07
nsfVB07	nr successive emersionflood VB07	d	VBStatus07
ageVB07	age of vegetation cohort 7	d	VBGrowth07
SWVB07Dec	biomass is decaying after prev mort type 7	-	VBGrowth07
fVB07	area scaled flux dVB07	gC/(m ² d)	VBGrowth07
fC2VB07P1	mortality foliage VB07 to POC1	gC/(m ² d)	VB Mort07
fC2VB07P2	mortality foliage VB07 to POC2	gC/(m ² d)	VB Mort07
fC2VB07P3	mortality foliage VB07 to POC3	gC/(m ² d)	VB Mort07
fN2VB07P1	mortality foliage VB07 to PON1	gN/(m ² d)	VB Mort07
fN2VB07P2	mortality foliage VB07 to PON2	gN/(m ² d)	VB Mort07
fN2VB07P3	mortality foliage VB07 to PON3	gN/(m ² d)	VB Mort07
fP2VB07P1	mortality foliage VB07 to POP1	gP/(m ² d)	VB Mort07
fP2VB07P2	mortality foliage VB07 to POP2	gP/(m ² d)	VB Mort07
fP2VB07P3	mortality foliage VB07 to POP3	gP/(m ² d)	VB Mort07
fS2VB07P1	mortality foliage VB07 to POS1	gS/(m ² d)	VB Mort07
fS2VB07P2	mortality foliage VB07 to POS2	gS/(m ² d)	VB Mort07
fS2VB07P3	mortality foliage VB07 to POS3	gS/(m ² d)	VB Mort07
fC5VB07P1	mortality fineroot VB07 to POC1	gC/(m ² d)	VB Mort07
fC5VB07P2	mortality fineroot VB07 to POC2	gC/(m ² d)	VB Mort07
fC5VB07P3	mortality fineroot VB07 to POC3	gC/(m ² d)	VB Mort07
fN5VB07P1	mortality fineroot VB07 to PON1	gN/(m ² d)	VB Mort07
fN5VB07P2	mortality fineroot VB07 to PON2	gN/(m ² d)	VB Mort07
fN5VB07P3	mortality fineroot VB07 to PON3	gN/(m ² d)	VB Mort07
fP5VB07P1	mortality fineroot VB07 to POP1	gP/(m ² d)	VB Mort07
fP5VB07P2	mortality fineroot VB07 to POP2	gP/(m ² d)	VB Mort07
fP5VB07P3	mortality fineroot VB07 to POP3	gP/(m ² d)	VB Mort07
fS5VB07P1	mortality fineroot VB07 to POS1	gS/(m ² d)	VB Mort07
fS5VB07P2	mortality fineroot VB07 to POS2	gS/(m ² d)	VB Mort07
fS5VB07P3	mortality fineroot VB07 to POS3	gS/(m ² d)	VB Mort07
fC1VB07P5	mortality stem VB07to POC5	gC/m ³ /d	VB Mort07
fC3VB07P5	mortality branch VB07 to POC5	gC/m ³ /d	VB Mort07
fC4VB07P5	mortality root VB07 to POC5	gC/m ³ /d	VB Mort07
fN1VB07P5	mortality stem VB07to PON5	gN/m ³ /d	VB Mort07
fN3VB07P5	mortality branch VB07 to PON5	gN/m ³ /d	VB Mort07
fN4VB07P5	mortality root VB07 to PON5	gN/m ³ /d	VB Mort07
fP1VB07P5	mortality stem VB07to POP5	gP/m ³ /d	VB Mort07
fP3VB07P5	mortality branch VB07 to POP5	gP/m ³ /d	VB Mort07
fP4VB07P5	mortality root VB07 to POP5	gP/m ³ /d	VB Mort07
fS1VB07P5	mortality stem VB07to POS5	gS/m ³ /d	VB Mort07
fS3VB07P5	mortality branch VB07 to POS5	gS/m ³ /d	VB Mort07
fS4VB07P5	mortality root VB07 to POS5	gS/m ³ /d	VB Mort07
fNVB07up	uptake fineroots VB07	gN/(m ² d)	VB07Upt
fPVB07up	uptake roots VB07	gP/(m ² d)	VB07Upt
fSVB07up	uptake roots VB07	gS/(m ² d)	VB07Upt
VB08Navail	VB08 nitrogen availability in rooting zone	gN/m ²	VB08availN
VB08Pavail	VB08 phosphorus availability in rooting z.	gP/m ²	VB08availN
VB08Savail	VB08 sulfur availability in rooting zone	gS/m ²	VB08availN
nsnlVB08	number of successive days nutrient lim. VB08	d	VBStatus08
SwVB08Gro	vegetation biomass growth allowed 0=no,1=yes	-	VBStatus08
SwVB08Mrt	vegetation biomass dead 0=no,1=yes	-	VBStatus08
nsfVB08	nr successive emersionflood VB08	d	VBStatus08
ageVB08	age of vegetation cohort 8	d	VBGrowth08
SWVB08Dec	biomass is decaying after prev mort type 8	-	VBGrowth08
fVB08	area scaled flux dVB08	gC/(m ² d)	VBGrowth08
fC2VB08P1	mortality foliage VB08 to POC1	gC/(m ² d)	VB Mort08
fC2VB08P2	mortality foliage VB08 to POC2	gC/(m ² d)	VB Mort08
fC2VB08P3	mortality foliage VB08 to POC3	gC/(m ² d)	VB Mort08
fN2VB08P1	mortality foliage VB08 to PON1	gN/(m ² d)	VB Mort08
fN2VB08P2	mortality foliage VB08 to PON2	gN/(m ² d)	VB Mort08
fN2VB08P3	mortality foliage VB08 to PON3	gN/(m ² d)	VB Mort08
fP2VB08P1	mortality foliage VB08 to POP1	gP/(m ² d)	VB Mort08
fP2VB08P2	mortality foliage VB08 to POP2	gP/(m ² d)	VB Mort08
fP2VB08P3	mortality foliage VB08 to POP3	gP/(m ² d)	VB Mort08
fS2VB08P1	mortality foliage VB08 to POS1	gS/(m ² d)	VB Mort08
fS2VB08P2	mortality foliage VB08 to POS2	gS/(m ² d)	VB Mort08
fS2VB08P3	mortality foliage VB08 to POS3	gS/(m ² d)	VB Mort08
fC5VB08P1	mortality fineroot VB08 to POC1	gC/(m ² d)	VB Mort08

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Table 8.1 – continued from previous page

Process	Description	Unit	Process
fC5VB08P2	mortality fineroot VB08 to POC2	gC/(m ² d)	VB Mort08
fC5VB08P3	mortality fineroot VB08 to POC3	gC/(m ² d)	VB Mort08
fN5VB08P1	mortality fineroot VB08 to PON1	gN/(m ² d)	VB Mort08
fN5VB08P2	mortality fineroot VB08 to PON2	gN/(m ² d)	VB Mort08
fN5VB08P3	mortality fineroot VB08 to PON3	gN/(m ² d)	VB Mort08
fP5VB08P1	mortality fineroot VB08 to POP1	gP/(m ² d)	VB Mort08
fP5VB08P2	mortality fineroot VB08 to POP2	gP/(m ² d)	VB Mort08
fP5VB08P3	mortality fineroot VB08 to POP3	gP/(m ² d)	VB Mort08
fS5VB08P1	mortality fineroot VB08 to POS1	gS/(m ² d)	VB Mort08
fS5VB08P2	mortality fineroot VB08 to POS2	gS/(m ² d)	VB Mort08
fS5VB08P3	mortality fineroot VB08 to POS3	gS/(m ² d)	VB Mort08
fC1VB08P5	mortality stem VB08tto POC5	gC/m ³ /d	VB Mort08
fC3VB08P5	mortality branch VB08 to POC5	gC/m ³ /d	VB Mort08
fC4VB08P5	mortality root VB08 to POC5	gC/m ³ /d	VB Mort08
fN1VB08P5	mortality stem VB08tto PON5	gN/m ³ /d	VB Mort08
fN3VB08P5	mortality branch VB08 to PON5	gN/m ³ /d	VB Mort08
fN4VB08P5	mortality root VB08 to PON5	gN/m ³ /d	VB Mort08
fP1VB08P5	mortality stem VB08tto POP5	gP/m ³ /d	VB Mort08
fP3VB08P5	mortality branch VB08 to POP5	gP/m ³ /d	VB Mort08
fP4VB08P5	mortality root VB08 to POP5	gP/m ³ /d	VB Mort08
fS1VB08P5	mortality stem VB08tto POS5	gS/m ³ /d	VB Mort08
fS3VB08P5	mortality branch VB08 to POS5	gS/m ³ /d	VB Mort08
fS4VB08P5	mortality root VB08 to POS5	gS/m ³ /d	VB Mort08
fNVB08up	uptake fineroots VB08	gN/(m ² d)	VB08Upt
fPVB08up	uptake roots VB08	gP/(m ² d)	VB08Upt
fSVB08up	uptake roots VB08	gS/(m ² d)	VB08Upt
VB09Navail	VB09 nitrogen availability in rooting zone	gN/m ²	VB09availN
VB09Pavail	VB09 phosphorus availability in rooting z.	gP/m ²	VB09availN
VB09Savail	VB09 sulfur availability in rooting zone	gS/m ²	VB09availN
nsnVB09	number of successive days nutrient lim. VB09	d	VBStatus09
SwVB09Gro	vegetation biomass growth allowed 0=no,1=yes	-	VBStatus09
SwVB09Mrt	vegetation biomass dead 0=no,1=yes	-	VBStatus09
nsfVB09	nr successive emersionflood VB09	d	VBStatus09
ageVB09	age of vegetation cohort 9	d	VBGrowth09
SWVB09Dec	biomass is decaying after prev mort type 9	-	VBGrowth09
fVB09	area scaled flux dVB09	gC/(m ² d)	VBGrowth09
fC2VB09P1	mortality foliage VB09 to POC1	gC/(m ² d)	VB Mort09
fC2VB09P2	mortality foliage VB09 to POC2	gC/(m ² d)	VB Mort09
fC2VB09P3	mortality foliage VB09 to POC3	gC/(m ² d)	VB Mort09
fN2VB09P1	mortality foliage VB09 to PON1	gN/(m ² d)	VB Mort09
fN2VB09P2	mortality foliage VB09 to PON2	gN/(m ² d)	VB Mort09
fN2VB09P3	mortality foliage VB09 to PON3	gN/(m ² d)	VB Mort09
fP2VB09P1	mortality foliage VB09 to POP1	gP/(m ² d)	VB Mort09
fP2VB09P2	mortality foliage VB09 to POP2	gP/(m ² d)	VB Mort09
fP2VB09P3	mortality foliage VB09 to POP3	gP/(m ² d)	VB Mort09
fS2VB09P1	mortality foliage VB09 to POS1	gS/(m ² d)	VB Mort09
fS2VB09P2	mortality foliage VB09 to POS2	gS/(m ² d)	VB Mort09
fS2VB09P3	mortality foliage VB09 to POS3	gS/(m ² d)	VB Mort09
fC5VB09P1	mortality fineroot VB09 to POC1	gC/(m ² d)	VB Mort09
fC5VB09P2	mortality fineroot VB09 to POC2	gC/(m ² d)	VB Mort09
fC5VB09P3	mortality fineroot VB09 to POC3	gC/(m ² d)	VB Mort09
fN5VB09P1	mortality fineroot VB09 to PON1	gN/(m ² d)	VB Mort09
fN5VB09P2	mortality fineroot VB09 to PON2	gN/(m ² d)	VB Mort09
fN5VB09P3	mortality fineroot VB09 to PON3	gN/(m ² d)	VB Mort09
fP5VB09P1	mortality fineroot VB09 to POP1	gP/(m ² d)	VB Mort09
fP5VB09P2	mortality fineroot VB09 to POP2	gP/(m ² d)	VB Mort09
fP5VB09P3	mortality fineroot VB09 to POP3	gP/(m ² d)	VB Mort09
fS5VB09P1	mortality fineroot VB09 to POS1	gS/(m ² d)	VB Mort09
fS5VB09P2	mortality fineroot VB09 to POS2	gS/(m ² d)	VB Mort09
fS5VB09P3	mortality fineroot VB09 to POS3	gS/(m ² d)	VB Mort09
fC1VB09P5	mortality stem VB09tto POC5	gC/m ³ /d	VB Mort09
fC3VB09P5	mortality branch VB09 to POC5	gC/m ³ /d	VB Mort09
fC4VB09P5	mortality root VB09 to POC5	gC/m ³ /d	VB Mort09
fN1VB09P5	mortality stem VB09tto PON5	gN/m ³ /d	VB Mort09
fN3VB09P5	mortality branch VB09 to PON5	gN/m ³ /d	VB Mort09
fN4VB09P5	mortality root VB09 to PON5	gN/m ³ /d	VB Mort09
fP1VB09P5	mortality stem VB09tto POP5	gP/m ³ /d	VB Mort09
fP3VB09P5	mortality branch VB09 to POP5	gP/m ³ /d	VB Mort09

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Table 8.1 – continued from previous page

Process	Description	Unit	Process
fP4VB09P5	mortality root VB09 to POP5	gP/m ³ /d	VB Mort09
fS1VB09P5	mortality stem VB09 to POS5	gS/m ³ /d	VB Mort09
fS3VB09P5	mortality branch VB09 to POS5	gS/m ³ /d	VB Mort09
fS4VB09P5	mortality root VB09 to POS5	gS/m ³ /d	VB Mort09
fNVB09up	uptake fineroots VB09	gN/(m ² d)	VB09Upt
fPVB09up	uptake roots VB09	gP/(m ² d)	VB09Upt
fSVB09up	uptake roots VB09	gS/(m ² d)	VB09Upt
N-CDetCS1	N:C ratio Detritus S1	gN/gC	S1_Comp
P-CDetCS1	P:C ratio Detritus S1	gP/gC	S1_Comp
S-CDetCS1	Si:C ratio Detritus S1	gSi/gC	S1_Comp
N-COOCs1	N:C ratio Other organics S1	gN/gC	S1_Comp
P-COOCs1	P:C ratio Other organics S1	gP/gC	S1_Comp
S-COOCs1	Si:C ratio Other organics S1	gSi/gC	S1_Comp
N-CDetCS2	N:C ratio Detritus S2	gN/gC	S2_Comp
P-CDetCS2	P:C ratio Detritus S2	gP/gC	S2_Comp
S-CDetCS2	Si:C ratio Detritus S2	gSi/gC	S2_Comp
N-COOCs2	N:C ratio Other organics S2	gN/gC	S2_Comp
P-COOCs2	P:C ratio Other organics S2	gP/gC	S2_Comp
S-COOCs2	Si:C ratio Other organics S2	gSi/gC	S2_Comp
FrAAPS1	fraction AAP in layer S1	gP/gDM	S1_Comp
FrAAPS2	fraction AAP in layer S2	gP/gDM	S2_Comp
ExtViods	VL extinction by DOC	1/m	Extinc_VLG
C-SPOC1	C:S ratio fast decaying detritus	gC/gS	Compos
C-SPOC2	C:S ratio medium decaying detritus	gC/gS	Compos
C-SPOC3	C:S ratio slow detritus	gC/gS	Compos
C-SPOC4	C:S ratio refractory detritus	gC/gS	Compos
botsegVB01	bottom segment pointer	-	VBStatus01
botsegVB02	bottom segment pointer	-	VBStatus02
botsegVB03	bottom segment pointer	-	VBStatus03
botsegVB04	bottom segment pointer	-	VBStatus04
botsegVB05	bottom segment pointer	-	VBStatus05
botsegVB06	bottom segment pointer	-	VBStatus06
botsegVB07	bottom segment pointer	-	VBStatus07
botsegVB08	bottom segment pointer	-	VBStatus08
botsegVB09	bottom segment pointer	-	VBStatus09
MaxEM01	maximum biomass for macrophyte emerged 01	gC/m ²	MaxMacro
MaxSM01	maximum biomass for macrophyte submerged 01	gC/m ²	MaxMacro
MaxEM02	maximum biomass for EM02	gC/m ²	MaxMacro
MaxSM02	maximum biomass for SM02	gC/m ²	MaxMacro
MaxEM03	maximum biomass for EM03	gC/m ²	MaxMacro
MaxSM03	maximum biomass for SM03	gC/m ²	MaxMacro
MaxEM04	maximum biomass for EM04	gC/m ²	MaxMacro
MaxSM04	maximum biomass for SM04	gC/m ²	MaxMacro
MaxEM05	maximum biomass for EM05	gC/m ²	MaxMacro
MaxSM05	maximum biomass for SM05	gC/m ²	MaxMacro
lbotSeg	Bottom segment number	-	Coverage
FrBmSM01	Fraction Biomass Layer macrophyte submerged 01	-	MACDIS01
BmLaySM01	Biomass Layer macrophyte submerged 01	gC/m ³	MACDIS01
HactSM01	Actual Height SM 01	m	MACDIS01
lTopSeg01	Tip segment number S01	-	MACDIS01
FrBmSM02	Fraction Biomass Layer macrophyte submerged 02	-	MACDIS02
BmLaySM02	Biomass Layer macrophyte submerged 02	gC/m ³	MACDIS02
HactSM02	Actual Height SM 02	m	MACDIS02
lTopSeg02	Tip segment number S02	-	MACDIS02
FrBmSM03	Fraction Biomass Layer macrophyte submerged 03	-	MACDIS03
BmLaySM03	Biomass Layer macrophyte submerged 03	gC/m ³	MACDIS03
HactSM03	Actual Height SM 03	m	MACDIS03
lTopSeg03	Tip segment number S03	-	MACDIS03
FrBmSM04	Fraction Biomass Layer macrophyte submerged 04	-	MACDIS04
BmLaySM04	Biomass Layer macrophyte submerged 04	gC/m ³	MACDIS04
HactSM04	Actual Height SM 04	m	MACDIS04
lTopSeg04	Tip segment number S04	-	MACDIS04
FrBmSM05	Fraction Biomass Layer macrophyte submerged 05	-	MACDIS05
BmLaySM05	Biomass Layer macrophyte submerged 05	gC/m ³	MACDIS05
HactSM05	Actual Height SM 05	m	MACDIS05
lTopSeg05	Tip segment number S05	-	MACDIS05
LimRadSM01	radiation limitation function SM01 <0-1>	-	Rad_SM01
LimRadSM02	radiation limitation function SM02 <0-1>	-	Rad_SM02
LimRadSM03	radiation limitation function SM03 <0-1>	-	Rad_SM03
LimRadSM04	radiation limitation function SM04 <0-1>	-	Rad_SM04

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Table 8.1 – continued from previous page

Process	Description	Unit	Process
LimRadSM05	radiation limitation function SM05 <0-1>	-	Rad_SM05
NH4S12	NH4 in S12 pore water	gN/m ³	NPPoreS12
PO4S12	PO4 in S12 pore water	gN/m ³	NPPoreS12
CDINSM01W	average water concentration DIN for SM01	m	MACNUTSM01
CPO4SM01W	average water concentration PO4 for SM01	m	MACNUTSM01
CCO2SM01	average concentration CO2+H2CO3 for SM01	m	MACNUTSM01
CHCO3SM01	average concentration HCO3 for SM01	m	MACNUTSM01
CDINSM01B	average sediment concentration DIN for SM01	m	MACNUTSM01
CPO4SM01B	average sediment concentration PO4 for SM01	m	MACNUTSM01
LimNutSM01	nutrient limitation function SM01 <0-1>	-	MACNUTSM01
FrootNSM01	fraction root uptake nitrogen SM01	-	MACNUTSM01
FrootPSM01	fraction root uptake phosphorus SM01	-	MACNUTSM01
CDINSM02W	average water concentration DIN for SM02	m	MACNUTSM02
CPO4SM02W	average water concentration PO4 for SM02	m	MACNUTSM02
CCO2SM02	average concentration CO2+H2CO3 for SM02	m	MACNUTSM02
CHCO3SM02	average concentration HCO3 for SM02	m	MACNUTSM02
CDINSM02B	average sediment concentration DIN for SM02	m	MACNUTSM02
CPO4SM02B	average sediment concentration PO4 for SM02	m	MACNUTSM02
LimNutSM02	nutrient limitation function SM02 <0-1>	-	MACNUTSM02
FrootNSM02	fraction root uptake nitrogen SM02	-	MACNUTSM02
FrootPSM02	fraction root uptake phosphorus SM02	-	MACNUTSM02
CDINSM03W	average water concentration DIN for SM03	m	MACNUTSM03
CPO4SM03W	average water concentration PO4 for SM03	m	MACNUTSM03
CCO2SM03	average concentration CO2+H2CO3 for SM03	m	MACNUTSM03
CHCO3SM03	average concentration HCO3 for SM03	m	MACNUTSM03
CDINSM03B	average sediment concentration DIN for SM03	m	MACNUTSM03
CPO4SM03B	average sediment concentration PO4 for SM03	m	MACNUTSM03
LimNutSM03	nutrient limitation function SM03 <0-1>	-	MACNUTSM03
FrootNSM03	fraction root uptake nitrogen SM03	-	MACNUTSM03
FrootPSM03	fraction root uptake phosphorus SM03	-	MACNUTSM03
CDINSM04W	average water concentration DIN for SM04	m	MACNUTSM04
CPO4SM04W	average water concentration PO4 for SM04	m	MACNUTSM04
CCO2SM04	average concentration CO2+H2CO3 for SM04	m	MACNUTSM04
CHCO3SM04	average concentration HCO3 for SM04	m	MACNUTSM04
CDINSM04B	average sediment concentration DIN for SM04	m	MACNUTSM04
CPO4SM04B	average sediment concentration PO4 for SM04	m	MACNUTSM04
LimNutSM04	nutrient limitation function SM04 <0-1>	-	MACNUTSM04
FrootNSM04	fraction root uptake nitrogen SM04	-	MACNUTSM04
FrootPSM04	fraction root uptake phosphorus SM04	-	MACNUTSM04
CDINSM05W	average water concentration DIN for SM05	m	MACNUTSM05
CPO4SM05W	average water concentration PO4 for SM05	m	MACNUTSM05
CCO2SM05	average concentration CO2+H2CO3 for SM05	m	MACNUTSM05
CHCO3SM05	average concentration HCO3 for SM05	m	MACNUTSM05
CDINSM05B	average sediment concentration DIN for SM05	m	MACNUTSM05
CPO4SM05B	average sediment concentration PO4 for SM05	m	MACNUTSM05
LimNutSM05	nutrient limitation function SM05 <0-1>	-	MACNUTSM05
FrootNSM05	fraction root uptake nitrogen SM05	-	MACNUTSM05
FrootPSM05	fraction root uptake phosphorus SM05	-	MACNUTSM05
FrTIMS2	fraction TIM in layer S2	gDM/gDM	Res_Pickup
fSedIM1S2	sedimentation flux IM1 towards S2	g/(m ² d)	Sed_IM1
fSedIM2S2	sedimentation flux IM2 towards S2	g/(m ² d)	Sed_IM2
fSedIM3S2	sedimentation flux IM3 towards S2	g/(m ² d)	Sed_IM3
fRefI	fraction of radiation reflected at water surface	-	Reflection
MnTempSM01	depth/biomass-averaged temperature for SM01	°C	MACNUTSM01
MnTempSM02	depth/biomass-averaged temperature for SM01	°C	MACNUTSM02
MnTempSM03	depth/biomass-averaged temperature for SM01	°C	MACNUTSM03
MnTempSM04	depth/biomass-averaged temperature for SM01	°C	MACNUTSM04
MnTempSM05	depth/biomass-averaged temperature for SM01	°C	MACNUTSM05

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9 Segment related process input with a default value

Table 9.1: Segment related process input with a default value

Process	Description	Unit	Process
VertDisp	vertical dispersion	m ² /s	VertDisp
VxSedIM1	sedimentation velocity IM1	m/s	Sed_IM1
VxSedIM2	sedimentation velocity IM2	m/s	Sed_IM2
VxSedIM3	sedimentation velocity IM3	m/s	Sed_IM3
VxSedDiat	sedimentation velocity Diatoms	m/s	SedDiat
VxSedGreen	sedimentation velocity Greens	m/s	Sed_Gre
VxSedAlg	sedimentation velocity	m/s	SEDALG
VxSedAlg01	sedimentation velocity algae type 01	m/s	SEDALG01
VxSedAlg02	sedimentation velocity algae type 02	m/s	SEDALG02
VxSedAlg03	sedimentation velocity algae type 03	m/s	SEDALG03
VxSedAlg04	sedimentation velocity algae type 04	m/s	SEDALG04
VxSedAlg05	sedimentation velocity algae type 05	m/s	SEDALG05
VxSedAlg06	sedimentation velocity algae type 06	m/s	SEDALG06
VxSedAlg07	sedimentation velocity algae type 07	m/s	SEDALG07
VxSedAlg08	sedimentation velocity algae type 08	m/s	SEDALG08
VxSedAlg09	sedimentation velocity algae type 09	m/s	SEDALG09
VxSedAlg10	sedimentation velocity algae type 10	m/s	SEDALG10
VxSedAlg11	sedimentation velocity algae type 11	m/s	SEDALG11
VxSedAlg12	sedimentation velocity algae type 12	m/s	SEDALG12
VxSedAlg13	sedimentation velocity algae type 13	m/s	SEDALG13
VxSedAlg14	sedimentation velocity algae type 14	m/s	SEDALG14
VxSedAlg15	sedimentation velocity algae type 15	m/s	SEDALG15
VxSedAlg16	sedimentation velocity algae type 16	m/s	SEDALG16
VxSedAlg17	sedimentation velocity algae type 17	m/s	SEDALG17
VxSedAlg18	sedimentation velocity algae type 18	m/s	SEDALG18
VxSedAlg19	sedimentation velocity algae type 19	m/s	SEDALG19
VxSedAlg20	sedimentation velocity algae type 20	m/s	SEDALG20
VxSedAlg21	sedimentation velocity algae type 21	m/s	SEDALG21
VxSedAlg22	sedimentation velocity algae type 22	m/s	SEDALG22
VxSedAlg23	sedimentation velocity algae type 23	m/s	SEDALG23
VxSedAlg24	sedimentation velocity algae type 24	m/s	SEDALG24
VxSedAlg25	sedimentation velocity algae type 25	m/s	SEDALG25
VxSedAlg26	sedimentation velocity algae type 26	m/s	SEDALG26
VxSedAlg27	sedimentation velocity algae type 27	m/s	SEDALG27
VxSedAlg28	sedimentation velocity algae type 28	m/s	SEDALG28
VxSedAlg29	sedimentation velocity algae type 29	m/s	SEDALG29
VxSedAlg30	sedimentation velocity algae type 30	m/s	SEDALG30
VxSedPhyt	sedimentation velocity phytoplankton	m/s	SedPhBlo_P
VxSedPhyt	sedimentation velocity phytoplankton	m/s	SedPhBlo
VxSedPhyt	sedimentation velocity phytoplankton	m/s	SedPhDyn
VxSedPOCna	sedimentation velocity POC no algae	m/s	Sum_Sedim
VxSedPOC1	sedimentation velocity POC1	m/s	Sed_POC1
VxSedPOC2	sedimentation velocity POC2	m/s	Sed_POC2
VxSedPOC3	sedimentation velocity POC3	m/s	Sed_POC3
VxSedPOC4	sedimentation velocity POC4	m/s	Sed_POC4
VxRes0	resuspension velocity	m/s	AdvTra
VxBur0	burial velocity	m/s	AdvTra
VxSep0	seepage velocity	m/s	AdvTra
VxTur0	bio-turbation velocities	m/s	DSPTra
VxDif0	bio-irrigation velocities	m/s	DSPTra
VxDownOXY	total downward transport in sediment	m/s	TraSe2_OXY



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10 Segment related process input with a default value

Table 10.1: Segment related process input with a default value

Process	Description	Unit	Default
Continuity	Continuity	g/m ³	1.000
OXY	Dissolved Oxygen	g/m ³	10.000
CBOD5	carbonaceous BOD first pool at 5 days	gO ₂ /m ³	0.000
CBOD5_2	carbonaceous BOD second pool at 5 days	gO ₂ /m ³	0.000
CBOD5_3	carbonaceous BOD third pool at 5 days	gO ₂ /m ³	0.000
CBODu	carbonaceous BOD first pool ultimate	gO ₂ /m ³	0.000
CBODu_2	carbonaceous BOD second pool ultimate	gO ₂ /m ³	0.000
COD_Cr	COD concentration by the Cr-method	gO ₂ /m ³	0.000
COD_Mn	COD concentration by the Mn-method	gO ₂ /m ³	0.000
NBOD5	nitrogenous BOD at 5 days	gO ₂ /m ³	0.000
NBODu	nitrogenous BOD ultimate	gO ₂ /m ³	0.000
SOD	Sediment oxygen demand SOD	gO ₂ /m ²	0.000
IM1	inorganic matter IM1	gDM/m ³	0.000
IM1S1	IM1 in layer S1	gDM/m ²	0.000
IM1S2	IM1 in layer S2	gDM/m ²	0.000
IM2	inorganic matter IM2	gDM/m ³	0.000
IM2S1	IM2 in layer S1	gDM/m ²	0.000
IM2S2	IM2 in layer S2	gDM/m ²	0.000
IM3	inorganic matter IM3	gDM/m ³	0.000
IM3S1	IM3 in layer S1	gDM/m ²	0.000
IM3S2	IM3 in layer S2	gDM/m ²	0.000
Salinity	Salinity	g/kg	35.000
Cl	Chloride	g/m ³	20000.000
NH4	Ammonium NH4	gN/m ³	0.000
NO3	Nitrate NO3	gN/m ³	0.000
PO4	Ortho-Phosphate PO4	gP/m ³	0.000
AAP	adsorbed ortho phosphate	gP/m ³	0.000
AAPS1	adsorbed O-PO4 in layer S1	gP/m ²	0.000
AAPS2	adsorbed O-PO4 in layer S2	gP/m ²	0.000
VIVP	Vivianite-P	gP/m ³	0.000
APATP	Apatite-P	gP/m ³	0.000
Si	dissolved Silica Si	gSi/m ³	0.000
Opal	Opal-Si	gSi/m ³	0.000
TIC	total inorganic carbonate	gC/m ³	0.000
SO4	sulphate SO4	gS/m ³	0.000
FeCO3	ironII carbonate concentration	gFe/m ³	0.000
FelId	total dissolved reducing iron	gFe/m ³	0.000
FelIId	dissolved oxidizing iron	gFe/m ³	0.000
FelIipa	particulate amorphous oxidizing iron	gFe/m ³	0.000
FelIipc	particulate crystalline oxidizing iron	gFe/m ³	0.000
FeS	ironII sulphide	gFe/m ³	0.000
FeS2	pyrite	gFe/m ³	0.000
POC1	POC1 fast decomposing fraction	gC/m ³	0.000
POC2	POC2 medium decomposing fraction	gC/m ³	0.000
POC3	POC3 slow decomposing fraction	gC/m ³	0.000
POC4	POC4 particulate refractory fraction	gC/m ³	0.000
PON1	PON1 fast decomposing fraction	gN/m ³	0.000
PON2	PON2 medium decomposing fraction	gN/m ³	0.000
PON3	PON3 slow decomposing fraction	gN/m ³	0.000
PON4	PON4 particulate refractory fraction	gN/m ³	0.000
POP1	POP1 fast decomposing fraction	gP/m ³	0.000
POP2	POP2 medium decomposing fraction	gP/m ³	0.000
POP3	POP3 slow decomposing fraction	gP/m ³	0.000
POP4	POP4 particulate refractory fraction	gP/m ³	0.000
POS1	POS1 fast decomposing fraction	gS/m ³	0.000
POS2	POS2 medium decomposing fraction	gS/m ³	0.000
POS3	POS3 slow decomposing fraction	gS/m ³	0.000
POS4	POS4 particulate refractory fraction	gS/m ³	0.000
DOC	Dissolved Organic Carbon DOC	gC/m ³	0.000
DON	Dissolved Organic Nitrogen DON	gN/m ³	0.000
DOP	Dissolved Organic Phosphorus DOP	gP/m ³	0.000
DOS	Dissolved Organic Sulphur DOS	gS/m ³	0.000
DetCS1	DetC in layer S1	gC/m ²	0.000
DetCS2	DetC in layer S2	gC/m ²	0.000
DetNS1	DetN in layer S1	gN/m ²	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
DetNS2	DetN in layer S2	gN/m ²	0.000
DetPS1	DetP in layer S1	gP/m ²	0.000
DetPS2	DetP in layer S2	gP/m ²	0.000
DetSiS1	DetSi in layer S1	gSi/m ²	0.000
DetSiS2	DetSi in layer S2	gSi/m ²	0.000
OOCs1	OOC in layer S1	gC/m ²	0.000
OOCs2	OOC in layer S2	gC/m ²	0.000
OONS1	OON in layer S1	gN/m ²	0.000
OONS2	OON in layer S2	gN/m ²	0.000
OOPS1	OOP in layer S1	gP/m ²	0.000
OOPS2	OOP in layer S2	gP/m ²	0.000
OOSiS1	OOSi in layer S1	gSi/m ²	0.000
OOSiS2	OOSi in layer S2	gSi/m ²	0.000
BLOOMALG02	concentration of algae type 2	gC/m ³	-101.000
BLOOMALG03	concentration of algae type 3	gC/m ³	-101.000
BLOOMALG04	concentration of algae type 4	gC/m ³	-101.000
BLOOMALG05	concentration of algae type 5	gC/m ³	-101.000
BLOOMALG06	concentration of algae type 6	gC/m ³	-101.000
BLOOMALG07	concentration of algae type 7	gC/m ³	-101.000
BLOOMALG08	concentration of algae type 8	gC/m ³	-101.000
BLOOMALG09	concentration of algae type 9	gC/m ³	-101.000
BLOOMALG10	concentration of algae type 10	gC/m ³	-101.000
BLOOMALG11	concentration of algae type 11	gC/m ³	-101.000
BLOOMALG12	concentration of algae type 12	gC/m ³	-101.000
BLOOMALG13	concentration of algae type 13	gC/m ³	-101.000
BLOOMALG14	concentration of algae type 14	gC/m ³	-101.000
BLOOMALG15	concentration of algae type 15	gC/m ³	-101.000
BLOOMALG16	concentration of algae type 16	gC/m ³	-101.000
BLOOMALG17	concentration of algae type 17	gC/m ³	-101.000
BLOOMALG18	concentration of algae type 18	gC/m ³	-101.000
BLOOMALG19	concentration of algae type 19	gC/m ³	-101.000
BLOOMALG20	concentration of algae type 20	gC/m ³	-101.000
BLOOMALG21	concentration of algae type 21	gC/m ³	-101.000
BLOOMALG22	concentration of algae type 22	gC/m ³	-101.000
BLOOMALG23	concentration of algae type 23	gC/m ³	-101.000
BLOOMALG24	concentration of algae type 24	gC/m ³	-101.000
BLOOMALG25	concentration of algae type 25	gC/m ³	-101.000
BLOOMALG26	concentration of algae type 26	gC/m ³	-101.000
BLOOMALG27	concentration of algae type 27	gC/m ³	-101.000
BLOOMALG28	concentration of algae type 28	gC/m ³	-101.000
BLOOMALG29	concentration of algae type 29	gC/m ³	-101.000
BLOOMALG30	concentration of algae type 30	gC/m ³	-101.000
Diat	Diatoms	gC/m ³	0.000
DiatS1	Diatoms in layer S1	gC/m ²	0.000
DiatS2	Diatoms in layer S2	gC/m ²	0.000
Green	Algae non-Diatoms	gC/m ³	0.000
GreenS1	Algae in layer S1	gC/m ²	0.000
GreenS2	Algae in layer S2	gC/m ²	0.000
MPB1peliS1	MPB epipellic biomass in layer S1	gC/m ²	0.000
MPB1peliS2	MPB epipellic biomass in layer S2	gC/m ²	0.000
MPB2psamS1	MPB n-diat biomass in layer S1	gC/m ²	0.000
MPB2psamS2	MPB n-diat biomass in sediment S2	gC/m ²	0.000
Surf	horizontal surface area of a DELWAQ segment	m ²	0.100
LocSedDept	Sediment layer depth to bottom of segment	m	0.000
ZThreshold	depth threshold for emersion	m	0.010
SwEmersion	switch indicating submersion0 or emersion1	-	0.000
XYScaleFac	Mult for meteo to segment coordinates	-	1.000
NoMeteoSta	Number of Meteo stations in calculation	-	1.000
MeteoCICSW	Option 1=nearest; 2= lin dist 3=squared dist	-	1.000
RadSW	Short wave radiation reaching water	W/m ²	0.000
VWind	wind speed	m/s	3.000
RelHumAir	Relative air humidity	%	80.000
TempAir	Air temperature	°C	15.000
PAtm	Air pressure	mbar	1000.000
SunFac	Percentage sunshine	%	0.000
fRefISW	Reflection factor for Qsw	-	0.050
SWEmiss	Switch for calculation of emissivity	-	1.000
SBC	StefanBoltzman Constant	W/m ² /K-4	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
fRefIA	Reflection factor for Qa	-	0.030
EmissWat	Emissivity colour factor of surface water	-	0.970
NatTemp	air temperature	°C	15.000
RhoWat0	density of water at 4°C	kg/m ³	1000.000
CwindA	Coefficient in wind function a	-	4.400
CwindB	Coefficient in wind function b	-	1.820
CwindC	Coefficient in wind function c	-	0.000
Hwindm	Height at which wind speed is measured	m	10.000
Hwinda	Height of wind speed needed for wind function	m	10.000
Ctauwind	Roughness coef for calculation vwind	-	0.050
cpa	Specific heat capacity of air	J/kg.K	1005.000
RadRB	Heat exchange between water and riverbed	W/m ²	0.000
CP	specific heat of water	J/kg/°C	4183.000
CorrTemp1D	Correction of temperature near discharge 1D	°C	0.000
TempWref	Reference water temperature for wind function	°C	15.000
SwitchTemp	switch modelled temp is absolute0 or surplus1	-	1.000
MinDepthT	minimal depth for heatflux calculation	m	0.050
Latitude	latitude of study area	degrees	52.100
RefDay	daynumber of reference day simulation	d	0.000
AuxSys	ratio between days and system clock	scu/d	86400.000
DayRadSurf	actual irradiance over the day	W/m ²	0.000
FactRcHeat	Factor on heat exchange	-	1.000
ZHeatExch	Zerth-order heat exchange	°C/d	0.000
SWTempDF	switch temperature increase on tidal flats	-	0.000
ThSedDT	thickness sed. layer subjected to temp. change	m	0.000
RadMax	maximal irradiance	W/m ²	1400.000
RTradmax	max. rate temp. increase tidal flats	°C/d	0.000
DelTradmax	max. temp. increase tidal flats radiation	°C	0.000
DelTev	temperature decrease evaporation tidal flats	°C	0.000
Temp	ambient water temperature	°C	15.000
MaxVeloc	maximum horizontal flow velocity	m/s	0.000
SWCalcVelo	switch 1=lin avg, 2=Flow avg, 3=Area avg	-	1.000
SWAvgVelo	switch 1=Pythagoras, 2=Min, 3=Max	-	1.000
Velocity	horizontal flow velocity	m/s	0.500
ScaleVdisp	scaling factor for vertical diffusion	-	1.000
DetC	Detritus Carbon DetC	gC/m ³	0.000
DetN	Detritus Nitrogen DetN	gN/m ³	0.000
DetP	Detritus Phosphorus DetP	gP/m ³	0.000
DetSi	Detritus Silica DetSi	gSi/m ³	0.000
DispConst	horizontal dispersion constant	-	0.000
HorzDispMx	maximum value horizontal dispersion	m ² /s	*****
Dfact_a	Factor a in dispersion calculation	-	10.000
Dfact_b	Factor b in dispersion calculation	-	0.800
Dfact_c	Factor c in dispersion calculation	-	1.200
Dback	Background dispersion	m ² /s	10.000
Dmin	Minimal dispersion coefficient	m ² /s	0.000
Dmax	Maximal Dispersion coefficient	m ² /s	1000.000
RcDecTR1	decay rate tracer1 for AGE calculations	1/d	0.010
RcDecTR2	decay rate tracer2 for AGE calculations	1/d	0.010
RcDecTR3	decay rate tracer3 for AGE calculations	1/d	0.010
RcDecTR4	decay rate tracer4 for AGE calculations	1/d	0.010
RcDecTR5	decay rate tracer5 for AGE calculations	1/d	0.010
Rough	bottom roughness/friction	m	0.001
Manncoef	Mannings Coefficient	m	0.026
SwChezy	switch 1=White/Coolbrook, 2=Manning	-	1.000
WaveHeight	calculated height of a wind induced wave	m	0.000
WaveLength	calculated length of a wind induced wave	m	0.000
WavePeriod	calculated period of a wind induced wave	s	0.000
TauShip	bottom shear stress by ship movement	N/m ²	0.000
SWTauVeloc	Switch Tauveloc 1=calculate 2=TauFlow	-	1.000
TauFlow	bottom shear stress by FLOW	N/m ²	0.000
SWTau	switch <1=Tamminga 2=Swart 3=Soulsby>	-	1.000
pH_min	minimum allowed calculated pH	-	1.000
pH_max	maximum allowed calculated pH	-	14.000
pH	pH	-	7.000
Poros	volumetric porosity	-	1.000
CO2	CO2	g/m ³	0.000
DisCO2	concentration of dissolved carbon dioxide	g/m ³	0.000
DisH2CO3	concentration of dissolved true H2CO3	gC/m ³	0.000
DisHCO3	concentration of dissolved HCO3-	gC/m ³	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
FrCO3dis	fraction dissolved free carbonate	-	0.000
ExtVAlg	extinction coeff. visible light by algae	m ² /gC	0.200
BLOOMALG	algae concentration	gC/m ³	-101.000
FixAlg	benthic:<0, resuspended:>0, plankton:=0	-	0.000
ExtVlPhyt	VL extinction by phytoplankton	1/m	0.000
NAlgBloom	number of algae types in BLOOM	-	30.000
SW_fixin_y	switch possible scaling of input, DO NOT EDIT	-	1.000
ExtVAlg01	VL specific extinction coefficient algae type 01	m ² /gC	0.200
ExtVAlg02	VL specific extinction coefficient algae type 02	m ² /gC	0.200
ExtVAlg03	VL specific extinction coefficient algae type 03	m ² /gC	0.200
ExtVAlg04	VL specific extinction coefficient algae type 04	m ² /gC	0.200
ExtVAlg05	VL specific extinction coefficient algae type 05	m ² /gC	0.200
ExtVAlg06	VL specific extinction coefficient algae type 06	m ² /gC	0.200
ExtVAlg07	VL specific extinction coefficient algae type 07	m ² /gC	0.200
ExtVAlg08	VL specific extinction coefficient algae type 08	m ² /gC	0.200
ExtVAlg09	VL specific extinction coefficient algae type 09	m ² /gC	0.200
ExtVAlg10	VL specific extinction coefficient algae type 10	m ² /gC	0.200
ExtVAlg11	VL specific extinction coefficient algae type 11	m ² /gC	0.200
ExtVAlg12	VL specific extinction coefficient algae type 12	m ² /gC	0.200
ExtVAlg13	VL specific extinction coefficient algae type 13	m ² /gC	0.200
ExtVAlg14	VL specific extinction coefficient algae type 14	m ² /gC	0.200
ExtVAlg15	VL specific extinction coefficient algae type 15	m ² /gC	0.200
ExtVAlg16	VL specific extinction coefficient algae ty	m ² /gC	0.200
ExtVAlg17	VL specific extinction coefficient algae ty	m ² /gC	0.200
ExtVAlg18	VL specific extinction coefficient algae ty	m ² /gC	0.200
ExtVAlg19	VL specific extinction coefficient algae ty	m ² /gC	0.200
ExtVAlg20	VL specific extinction coefficient algae ty	m ² /gC	0.200
ExtVAlg21	VL specific extinction coefficient algae ty	m ² /gC	0.200
ExtVAlg22	VL specific extinction coefficient algae ty	m ² /gC	0.200
ExtVAlg23	VL specific extinction coefficient algae ty	m ² /gC	0.200
ExtVAlg24	VL specific extinction coefficient algae ty	m ² /gC	0.200
ExtVAlg25	VL specific extinction coefficient algae ty	m ² /gC	0.200
ExtVAlg26	VL specific extinction coefficient algae ty	m ² /gC	0.200
ExtVAlg27	VL specific extinction coefficient algae ty	m ² /gC	0.200
ExtVAlg28	VL specific extinction coefficient algae ty	m ² /gC	0.200
ExtVAlg29	VL specific extinction coefficient algae ty	m ² /gC	0.200
ExtVAlg30	VL specific extinction coefficient algae ty	m ² /gC	0.200
FixAlg01	algae type 01 fixed 0=not app,>0=sus,<0=fixed	-	0.000
FixAlg02	algae type 02 fixed 0=not app,>0=sus,<0=fixed	-	0.000
FixAlg03	algae type 03 fixed 0=not app,>0=sus,<0=fixed	-	0.000
FixAlg04	algae type 04 fixed 0=not app,>0=sus,<0=fixed	-	0.000
FixAlg05	algae type 05 fixed 0=not app,>0=sus,<0=fixed	-	0.000
FixAlg06	algae type 06 fixed 0=not app,>0=sus,<0=fixed	-	0.000
FixAlg07	algae type 07 fixed 0=not app,>0=sus,<0=fixed	-	0.000
FixAlg08	algae type 08 fixed 0=not app,>0=sus,<0=fixed	-	0.000
FixAlg09	algae type 09 fixed 0=not app,>0=sus,<0=fixed	-	0.000
FixAlg10	algae type 10 fixed 0=not app,>0=sus,<0=fixed	-	0.000
FixAlg11	algae type 11 fixed 0=not app,>0=sus,<0=fixed	-	0.000
FixAlg12	algae type 12 fixed 0=not app,>0=sus,<0=fixed	-	0.000
FixAlg13	algae type 13 fixed 0=not app,>0=sus,<0=fixed	-	0.000
FixAlg14	algae type 14 fixed 0=not app,>0=sus,<0=fixed	-	0.000
FixAlg15	algae type 15 fixed 0=not app,>0=sus,<0=fixed	-	0.000
FixAlg16	algae type 16 fixed 0=not app,>0=sus,<0=fixed	-	0.000
FixAlg17	algae type 17 fixed 0=not app,>0=sus,<0=fixed	-	0.000
FixAlg18	algae type 18 fixed 0=not app,>0=sus,<0=fixed	-	0.000
FixAlg19	algae type 19 fixed 0=not app,>0=sus,<0=fixed	-	0.000
FixAlg20	algae type 20 fixed 0=not app,>0=sus,<0=fixed	-	0.000
FixAlg21	algae type 21 fixed 0=not app,>0=sus,<0=fixed	-	0.000
FixAlg22	algae type 22 fixed 0=not app,>0=sus,<0=fixed	-	0.000
FixAlg23	algae type 23 fixed 0=not app,>0=sus,<0=fixed	-	0.000
FixAlg24	algae type 24 fixed 0=not app,>0=sus,<0=fixed	-	0.000
FixAlg25	algae type 25 fixed 0=not app,>0=sus,<0=fixed	-	0.000
FixAlg26	algae type 26 fixed 0=not app,>0=sus,<0=fixed	-	0.000
FixAlg27	algae type 27 fixed 0=not app,>0=sus,<0=fixed	-	0.000
FixAlg28	algae type 28 fixed 0=not app,>0=sus,<0=fixed	-	0.000
FixAlg29	algae type 29 fixed 0=not app,>0=sus,<0=fixed	-	0.000
FixAlg30	algae type 30 fixed 0=not app,>0=sus,<0=fixed	-	0.000
NAlgDynamo	number of algae types in DYNAMO	-	2.000
SW_fixin_n	switch possible scaling of input, DO NOT EDIT	-	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
ExtVIGreen	VL specific extinction coefficient Greens	m ² /gC	0.150
ExtVIDiat	VL specific extinction coefficient Diatoms	m ² /gC	0.150
ExtUValg	extinction coefficient UV light by algae	m ² /gC	0.150
ExtUvPhyt	UV extinction by phytoplankton	1/m	0.000
ExtUValg01	UV specific extinction coefficient algae type 01	m ² /gC	0.150
ExtUValg02	UV specific extinction coefficient algae type 02	m ² /gC	0.150
ExtUValg03	UV specific extinction coefficient algae type 03	m ² /gC	0.150
ExtUValg04	UV specific extinction coefficient algae type 04	m ² /gC	0.150
ExtUValg05	UV specific extinction coefficient algae type 05	m ² /gC	0.150
ExtUValg06	UV specific extinction coefficient algae type 06	m ² /gC	0.150
ExtUValg07	UV specific extinction coefficient algae type 07	m ² /gC	0.150
ExtUValg08	UV specific extinction coefficient algae type 08	m ² /gC	0.150
ExtUValg09	UV specific extinction coefficient algae type 09	m ² /gC	0.150
ExtUValg10	UV specific extinction coefficient algae type 10	m ² /gC	0.150
ExtUValg11	UV specific extinction coefficient algae type 11	m ² /gC	0.150
ExtUValg12	UV specific extinction coefficient algae type 12	m ² /gC	0.150
ExtUValg13	UV specific extinction coefficient algae type 13	m ² /gC	0.150
ExtUValg14	UV specific extinction coefficient algae type 14	m ² /gC	0.150
ExtUValg15	UV specific extinction coefficient algae type 15	m ² /gC	0.150
ExtUValg16	UV specific extinction coefficient algae ty	m ² /gC	0.150
ExtUValg17	UV specific extinction coefficient algae ty	m ² /gC	0.150
ExtUValg18	UV specific extinction coefficient algae ty	m ² /gC	0.150
ExtUValg19	UV specific extinction coefficient algae ty	m ² /gC	0.150
ExtUValg20	UV specific extinction coefficient algae ty	m ² /gC	0.150
ExtUValg21	UV specific extinction coefficient algae ty	m ² /gC	0.150
ExtUValg22	UV specific extinction coefficient algae ty	m ² /gC	0.150
ExtUValg23	UV specific extinction coefficient algae ty	m ² /gC	0.150
ExtUValg24	UV specific extinction coefficient algae ty	m ² /gC	0.150
ExtUValg25	UV specific extinction coefficient algae ty	m ² /gC	0.150
ExtUValg26	UV specific extinction coefficient algae ty	m ² /gC	0.150
ExtUValg27	UV specific extinction coefficient algae ty	m ² /gC	0.150
ExtUValg28	UV specific extinction coefficient algae ty	m ² /gC	0.150
ExtUValg29	UV specific extinction coefficient algae ty	m ² /gC	0.150
ExtUValg30	UV specific extinction coefficient algae ty	m ² /gC	0.150
ExtUVGreen	UV specific extinction coefficient Greens	m ² /gC	0.150
ExtUVDiat	UV specific extinction coefficient Diatoms	m ² /gC	0.150
ExtVIDOC	VL specific extinction coefficient DOC	m ² /gC	0.000
ExtVIPOC1	VL specific extinction coefficient POC1	m ² /gC	0.100
ExtVIPOC2	VL specific extinction coefficient POC2	m ² /gC	0.100
ExtVIPOC3	VL specific extinction coefficient POC3	m ² /gC	0.100
ExtVIPOC4	VL specific extinction coefficient POC4	m ² /gC	0.100
ExtUVDOC	UV specific extinction coefficient DOC	m ² /gC	0.000
ExtUVPOC1	UV specific extinction coefficient POC1	m ² /gC	0.100
ExtUVPOC2	UV specific extinction coefficient POC2	m ² /gC	0.100
ExtUVPOC3	UV specific extinction coefficient POC3	m ² /gC	0.100
ExtUVPOC4	UV specific extinction coefficient POC4	m ² /gC	0.100
ExtVIIM1	VL specific extinction coefficient IM1	m ² /gDM	0.010
ExtVIIM2	VL specific extinction coefficient IM2	m ² /gDM	0.010
ExtVIIM3	VL specific extinction coefficient IM3	m ² /gDM	0.010
ExtVIBak	background extinction visible light	1/m	0.080
ExtVIMacro	VL extinction by macrophytes	1/m	0.000
SW_Uitz	Extinction by Uitzicht On 1 or Off 0	-	0.000
UitZDEPT1	Z1 depth	m	1.200
UitZDEPT2	Z2 depth	m	1.000
UitZCORCH	CORa correction factor	-	2.500
UitZC_DET	C3 coeff. absorption ash weight & detritus	-	0.026
UitZC_GL1	C1 coeff. absorption ash weight & detritus	-	0.730
UitZC_GL2	C2 coeff. absorption ash weight & detritus	-	1.000
UitZHELHM	Hel_h constant	nm-1	0.014
UitZTAU	Tau constant calculation transparency	-	7.800
UitZangle	Angle of incidence solar radiation	degrees	30.000
DMCFDetC	DM:C ratio DetC	gDM/gC	2.500
ExtVLSal0	extra VL extinction at Salinity = 0	1/m	0.000
SalExt0	salinity value for extra extinction = 0	g/kg	34.920
ExtUvIM1	UV specific extinction coefficient IM1	m ² /gDM	0.010
ExtUvIM2	UV specific extinction coefficient IM2	m ² /gDM	0.010
ExtUvIM3	UV specific extinction coefficient IM3	m ² /gDM	0.010
ExtUvBak	background extinction UV light	1/m	0.080

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Process	Description	Unit	Default
ExtUvMacro	UV extinction by macrophytes	1/m	0.000
ExtUVSal0	extra UV extinction at Salinity = 0	1/m	0.000
ExtUv	total extinction coefficient UV light	1/m	3.000
a_enh	enhancement factor in radiation calculation	-	1.500
DayL	daylength <0-1>	d	0.580
SWDepAve	switch for module DepAve 0=off, 1=on	-	0.000
TimMultBI	ratio bloom/delwaq time step	-	1.000
BloomDepth	average depth over Bloom time step	m	0.000
SwVTRANS	switch effect of vertical mixing on light	-	0.000
ThrAlgNH4	threshold concentration uptake ammonium	gN/m ³	0.000
ThrAlgNO3	threshold concentration uptake nitrate	gN/m ³	0.000
ThrAlgPO4	threshold concentration uptake phosphate	gP/m ³	0.000
ThrAlgSi	threshold concentration uptake silicium	gSi/m ³	0.000
SWBloomOut	switch on BLOOM output 0=no, 1=yes	-	0.000
SWOxyProd	switch on oxygen prod. 0=BLOOM, 1=VAROXY	-	0.000
FrAutAlg	frac. mort. algae dissolved as nutrients	-	0.350
FrDetAlg	frac. mort. algae detritus production	-	0.650
DMCFALG	DM:C ratio algae	gDM/gC	2.500
NCRAlg	N:C ratio per algae type	gN/gC	0.200
PCRAlg	P:C ratio per algae type	gP/gC	0.020
SCRAlg	Si:C ratio per algae type	gSi/gC	0.002
XNCRAlg	N:C for heterotrophic algae types	gN/gC	0.000
XPCRAlg	P:C for heterotrophic algae types	gP/gC	0.000
FNCRAlg	N:C for nitrogen fixing algae types	gN/gC	0.000
ChlaCAlg	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
PPMaxAlg	pot. maximum growth rate at 0 dg C	1/d	0.350
TcPMxAlg	temperature coefficient for growth	-	1.060
TFPMxAlg	growth response temp. 0-lin, <>0-expon	-	1.000
Mort0Alg	mortality rate at 0 dg C	1/d	0.045
TcMrtAlg	temperature coefficient for mortality	-	1.085
MRespAlg	maintenance respiration rate at 0 dg C	1/d	0.031
TcRspAlg	temperature coefficient for respiration	-	1.072
SDMixAlg	distribution water column: fraction of depth	-	1.000
MrtExAlg	extra rapid mortality rate	1/d/C	0.000
Mort2Alg	salinity dependent mortality rate at 0 dg C	1/d	0.000
MrtB1Alg	coeff. b1 salinity dependent mort.func.	gCl/m ³	0.002
MrtB2Alg	coeff. b2 salinity dependent mort.func.	gCl/m ³	8000.000
SpecAlg01	number of the group for algae type 01	-	0.000
SpecAlg02	number of the group for algae type 02	-	0.000
SpecAlg03	number of the group for algae type 03	-	0.000
SpecAlg04	number of the group for algae type 04	-	0.000
SpecAlg05	number of the group for algae type 05	-	0.000
SpecAlg06	number of the group for algae type 06	-	0.000
SpecAlg07	number of the group for algae type 07	-	0.000
SpecAlg08	number of the group for algae type 08	-	0.000
SpecAlg09	number of the group for algae type 09	-	0.000
SpecAlg10	number of the group for algae type 10	-	0.000
SpecAlg11	number of the group for algae type 11	-	0.000
SpecAlg12	number of the group for algae type 12	-	0.000
SpecAlg13	number of the group for algae type 13	-	0.000
SpecAlg14	number of the group for algae type 14	-	0.000
SpecAlg15	number of the group for algae type 15	-	0.000
SpecAlg16	number of the group for algae type 16	-	0.000
SpecAlg17	number of the group for algae type 17	-	0.000
SpecAlg18	number of the group for algae type 18	-	0.000
SpecAlg19	number of the group for algae type 19	-	0.000
SpecAlg20	number of the group for algae type 20	-	0.000
SpecAlg21	number of the group for algae type 21	-	0.000
SpecAlg22	number of the group for algae type 22	-	0.000
SpecAlg23	number of the group for algae type 23	-	0.000
SpecAlg24	number of the group for algae type 24	-	0.000
SpecAlg25	number of the group for algae type 25	-	0.000
SpecAlg26	number of the group for algae type 26	-	0.000
SpecAlg27	number of the group for algae type 27	-	0.000
SpecAlg28	number of the group for algae type 28	-	0.000
SpecAlg29	number of the group for algae type 29	-	0.000
SpecAlg30	number of the group for algae type 30	-	0.000
FrAutAlg01	fraction autolysis algae type 01	-	0.350
FrAutAlg02	fraction autolysis algae type 02	-	0.350
FrAutAlg03	fraction autolysis algae type 03	-	0.350
FrAutAlg04	fraction autolysis algae type 04	-	0.350

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
FrAutAlg05	fraction autolysis algae type 05	-	0.350
FrAutAlg06	fraction autolysis algae type 06	-	0.350
FrAutAlg07	fraction autolysis algae type 07	-	0.350
FrAutAlg08	fraction autolysis algae type 08	-	0.350
FrAutAlg09	fraction autolysis algae type 09	-	0.350
FrAutAlg10	fraction autolysis algae type 10	-	0.350
FrAutAlg11	fraction autolysis algae type 11	-	0.350
FrAutAlg12	fraction autolysis algae type 12	-	0.350
FrAutAlg13	fraction autolysis algae type 13	-	0.350
FrAutAlg14	fraction autolysis algae type 14	-	0.350
FrAutAlg15	fraction autolysis algae type 15	-	0.350
FrAutAlg16	fraction autolysis algae type 16	-	0.350
FrAutAlg17	fraction autolysis algae type 17	-	0.350
FrAutAlg18	fraction autolysis algae type 18	-	0.350
FrAutAlg19	fraction autolysis algae type 19	-	0.350
FrAutAlg20	fraction autolysis algae type 20	-	0.350
FrAutAlg21	fraction autolysis algae type 21	-	0.350
FrAutAlg22	fraction autolysis algae type 22	-	0.350
FrAutAlg23	fraction autolysis algae type 23	-	0.350
FrAutAlg24	fraction autolysis algae type 24	-	0.350
FrAutAlg25	fraction autolysis algae type 25	-	0.350
FrAutAlg26	fraction autolysis algae type 26	-	0.350
FrAutAlg27	fraction autolysis algae type 27	-	0.350
FrAutAlg28	fraction autolysis algae type 28	-	0.350
FrAutAlg29	fraction autolysis algae type 29	-	0.350
FrAutAlg30	fraction autolysis algae type 30	-	0.350
FrDetAlg01	fraction detritus by mortality algae type 01	-	0.650
FrDetAlg02	fraction detritus by mortality algae type 02	-	0.650
FrDetAlg03	fraction detritus by mortality algae type 03	-	0.650
FrDetAlg04	fraction detritus by mortality algae type 04	-	0.650
FrDetAlg05	fraction detritus by mortality algae type 05	-	0.650
FrDetAlg06	fraction detritus by mortality algae type 06	-	0.650
FrDetAlg07	fraction detritus by mortality algae type 07	-	0.650
FrDetAlg08	fraction detritus by mortality algae type 08	-	0.650
FrDetAlg09	fraction detritus by mortality algae type 09	-	0.650
FrDetAlg10	fraction detritus by mortality algae type 10	-	0.650
FrDetAlg11	fraction detritus by mortality algae type 11	-	0.650
FrDetAlg12	fraction detritus by mortality algae type 12	-	0.650
FrDetAlg13	fraction detritus by mortality algae type 13	-	0.650
FrDetAlg14	fraction detritus by mortality algae type 14	-	0.650
FrDetAlg15	fraction detritus by mortality algae type 15	-	0.650
FrDetAlg16	fraction detritus by mortality algae type 16	-	0.650
FrDetAlg17	fraction detritus by mortality algae type 17	-	0.650
FrDetAlg18	fraction detritus by mortality algae type 18	-	0.650
FrDetAlg19	fraction detritus by mortality algae type 19	-	0.650
FrDetAlg20	fraction detritus by mortality algae type 20	-	0.650
FrDetAlg21	fraction detritus by mortality algae type 21	-	0.650
FrDetAlg22	fraction detritus by mortality algae type 22	-	0.650
FrDetAlg23	fraction detritus by mortality algae type 23	-	0.650
FrDetAlg24	fraction detritus by mortality algae type 24	-	0.650
FrDetAlg25	fraction detritus by mortality algae type 25	-	0.650
FrDetAlg26	fraction detritus by mortality algae type 26	-	0.650
FrDetAlg27	fraction detritus by mortality algae type 27	-	0.650
FrDetAlg28	fraction detritus by mortality algae type 28	-	0.650
FrDetAlg29	fraction detritus by mortality algae type 29	-	0.650
FrDetAlg30	fraction detritus by mortality algae type 30	-	0.650
DMCFAlg01	DM:C ratio algae type 01	gDM/gC	2.500
DMCFAlg02	DM:C ratio algae type 02	gDM/gC	2.500
DMCFAlg03	DM:C ratio algae type 03	gDM/gC	2.500
DMCFAlg04	DM:C ratio algae type 04	gDM/gC	2.500
DMCFAlg05	DM:C ratio algae type 05	gDM/gC	2.500
DMCFAlg06	DM:C ratio algae type 06	gDM/gC	2.500
DMCFAlg07	DM:C ratio algae type 07	gDM/gC	2.500
DMCFAlg08	DM:C ratio algae type 08	gDM/gC	2.500
DMCFAlg09	DM:C ratio algae type 09	gDM/gC	2.500
DMCFAlg10	DM:C ratio algae type 10	gDM/gC	2.500
DMCFAlg11	DM:C ratio algae type 11	gDM/gC	2.500
DMCFAlg12	DM:C ratio algae type 12	gDM/gC	2.500
DMCFAlg13	DM:C ratio algae type 13	gDM/gC	2.500
DMCFAlg14	DM:C ratio algae type 14	gDM/gC	2.500
DMCFAlg15	DM:C ratio algae type 15	gDM/gC	2.500

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
DMCFAIg16	DM:C ratio algae type 16	gDM/gC	2.500
DMCFAIg17	DM:C ratio algae type 17	gDM/gC	2.500
DMCFAIg18	DM:C ratio algae type 18	gDM/gC	2.500
DMCFAIg19	DM:C ratio algae type 19	gDM/gC	2.500
DMCFAIg20	DM:C ratio algae type 20	gDM/gC	2.500
DMCFAIg21	DM:C ratio algae type 21	gDM/gC	2.500
DMCFAIg22	DM:C ratio algae type 22	gDM/gC	2.500
DMCFAIg23	DM:C ratio algae type 23	gDM/gC	2.500
DMCFAIg24	DM:C ratio algae type 24	gDM/gC	2.500
DMCFAIg25	DM:C ratio algae type 25	gDM/gC	2.500
DMCFAIg26	DM:C ratio algae type 26	gDM/gC	2.500
DMCFAIg27	DM:C ratio algae type 27	gDM/gC	2.500
DMCFAIg28	DM:C ratio algae type 28	gDM/gC	2.500
DMCFAIg29	DM:C ratio algae type 29	gDM/gC	2.500
DMCFAIg30	DM:C ratio algae type 30	gDM/gC	2.500
NCRAIg01	N:C ratio algae type 01	gN/gC	0.200
NCRAIg02	N:C ratio algae type 02	gN/gC	0.200
NCRAIg03	N:C ratio algae type 03	gN/gC	0.200
NCRAIg04	N:C ratio algae type 04	gN/gC	0.200
NCRAIg05	N:C ratio algae type 05	gN/gC	0.200
NCRAIg06	N:C ratio algae type 06	gN/gC	0.200
NCRAIg07	N:C ratio algae type 07	gN/gC	0.200
NCRAIg08	N:C ratio algae type 08	gN/gC	0.200
NCRAIg09	N:C ratio algae type 09	gN/gC	0.200
NCRAIg10	N:C ratio algae type 10	gN/gC	0.200
NCRAIg11	N:C ratio algae type 11	gN/gC	0.200
NCRAIg12	N:C ratio algae type 12	gN/gC	0.200
NCRAIg13	N:C ratio algae type 13	gN/gC	0.200
NCRAIg14	N:C ratio algae type 14	gN/gC	0.200
NCRAIg15	N:C ratio algae type 15	gN/gC	0.200
NCRAIg16	N:C ratio algae type 16	gN/gC	0.200
NCRAIg17	N:C ratio algae type 17	gN/gC	0.200
NCRAIg18	N:C ratio algae type 18	gN/gC	0.200
NCRAIg19	N:C ratio algae type 19	gN/gC	0.200
NCRAIg20	N:C ratio algae type 20	gN/gC	0.200
NCRAIg21	N:C ratio algae type 21	gN/gC	0.200
NCRAIg22	N:C ratio algae type 22	gN/gC	0.200
NCRAIg23	N:C ratio algae type 23	gN/gC	0.200
NCRAIg24	N:C ratio algae type 24	gN/gC	0.200
NCRAIg25	N:C ratio algae type 25	gN/gC	0.200
NCRAIg26	N:C ratio algae type 26	gN/gC	0.200
NCRAIg27	N:C ratio algae type 27	gN/gC	0.200
NCRAIg28	N:C ratio algae type 28	gN/gC	0.200
NCRAIg29	N:C ratio algae type 29	gN/gC	0.200
NCRAIg30	N:C ratio algae type 30	gN/gC	0.200
PCRAIg01	P:C ratio algae type 01	gP/gC	0.020
PCRAIg02	P:C ratio algae type 02	gP/gC	0.020
PCRAIg03	P:C ratio algae type 03	gP/gC	0.020
PCRAIg04	P:C ratio algae type 04	gP/gC	0.020
PCRAIg05	P:C ratio algae type 05	gP/gC	0.020
PCRAIg06	P:C ratio algae type 06	gP/gC	0.020
PCRAIg07	P:C ratio algae type 07	gP/gC	0.020
PCRAIg08	P:C ratio algae type 08	gP/gC	0.020
PCRAIg09	P:C ratio algae type 09	gP/gC	0.020
PCRAIg10	P:C ratio algae type 10	gP/gC	0.020
PCRAIg11	P:C ratio algae type 11	gP/gC	0.020
PCRAIg12	P:C ratio algae type 12	gP/gC	0.020
PCRAIg13	P:C ratio algae type 13	gP/gC	0.020
PCRAIg14	P:C ratio algae type 14	gP/gC	0.020
PCRAIg15	P:C ratio algae type 15	gP/gC	0.020
PCRAIg16	P:C ratio algae type 16	gP/gC	0.020
PCRAIg17	P:C ratio algae type 17	gP/gC	0.020
PCRAIg18	P:C ratio algae type 18	gP/gC	0.020
PCRAIg19	P:C ratio algae type 19	gP/gC	0.020
PCRAIg20	P:C ratio algae type 20	gP/gC	0.020
PCRAIg21	P:C ratio algae type 21	gP/gC	0.020
PCRAIg22	P:C ratio algae type 22	gP/gC	0.020
PCRAIg23	P:C ratio algae type 23	gP/gC	0.020
PCRAIg24	P:C ratio algae type 24	gP/gC	0.020
PCRAIg25	P:C ratio algae type 25	gP/gC	0.020
PCRAIg26	P:C ratio algae type 26	gP/gC	0.020

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Process	Description	Unit	Default
PCRAIg27	P:C ratio algae type 27	gP/gC	0.020
PCRAIg28	P:C ratio algae type 28	gP/gC	0.020
PCRAIg29	P:C ratio algae type 29	gP/gC	0.020
PCRAIg30	P:C ratio algae type 30	gP/gC	0.020
SCRAIg01	Si:C ratio algae type 01	gSi/gC	0.002
SCRAIg02	Si:C ratio algae type 02	gSi/gC	0.002
SCRAIg03	Si:C ratio algae type 03	gSi/gC	0.002
SCRAIg04	Si:C ratio algae type 04	gSi/gC	0.002
SCRAIg05	Si:C ratio algae type 05	gSi/gC	0.002
SCRAIg06	Si:C ratio algae type 06	gSi/gC	0.002
SCRAIg07	Si:C ratio algae type 07	gSi/gC	0.002
SCRAIg08	Si:C ratio algae type 08	gSi/gC	0.002
SCRAIg09	Si:C ratio algae type 09	gSi/gC	0.002
SCRAIg10	Si:C ratio algae type 10	gSi/gC	0.002
SCRAIg11	Si:C ratio algae type 11	gSi/gC	0.002
SCRAIg12	Si:C ratio algae type 12	gSi/gC	0.002
SCRAIg13	Si:C ratio algae type 13	gSi/gC	0.002
SCRAIg14	Si:C ratio algae type 14	gSi/gC	0.002
SCRAIg15	Si:C ratio algae type 15	gSi/gC	0.002
SCRAIg16	Si:C ratio algae type 16	gSi/gC	0.002
SCRAIg17	Si:C ratio algae type 17	gSi/gC	0.002
SCRAIg18	Si:C ratio algae type 18	gSi/gC	0.002
SCRAIg19	Si:C ratio algae type 19	gSi/gC	0.002
SCRAIg20	Si:C ratio algae type 20	gSi/gC	0.002
SCRAIg21	Si:C ratio algae type 21	gSi/gC	0.002
SCRAIg22	Si:C ratio algae type 22	gSi/gC	0.002
SCRAIg23	Si:C ratio algae type 23	gSi/gC	0.002
SCRAIg24	Si:C ratio algae type 24	gSi/gC	0.002
SCRAIg25	Si:C ratio algae type 25	gSi/gC	0.002
SCRAIg26	Si:C ratio algae type 26	gSi/gC	0.002
SCRAIg27	Si:C ratio algae type 27	gSi/gC	0.002
SCRAIg28	Si:C ratio algae type 28	gSi/gC	0.002
SCRAIg29	Si:C ratio algae type 29	gSi/gC	0.002
SCRAIg30	Si:C ratio algae type 30	gSi/gC	0.002
ChlaCAIg01	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
ChlaCAIg02	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
ChlaCAIg03	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
ChlaCAIg04	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
ChlaCAIg05	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
ChlaCAIg06	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
ChlaCAIg07	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
ChlaCAIg08	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
ChlaCAIg09	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
ChlaCAIg10	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
ChlaCAIg11	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
ChlaCAIg12	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
ChlaCAIg13	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
ChlaCAIg14	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
ChlaCAIg15	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
ChlaCAIg16	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
ChlaCAIg17	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
ChlaCAIg18	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
ChlaCAIg19	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
ChlaCAIg20	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
ChlaCAIg21	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
ChlaCAIg22	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
ChlaCAIg23	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
ChlaCAIg24	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
ChlaCAIg25	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
ChlaCAIg26	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
ChlaCAIg27	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
ChlaCAIg28	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
ChlaCAIg29	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
ChlaCAIg30	Chlorophyll-a:C ratio per algae type	gChla/gC	0.030
PPMaxAlg01	maximum production rate algae type 01	1/d	0.350
PPMaxAlg02	maximum production rate algae type 02	1/d	0.350
PPMaxAlg03	maximum production rate algae type 03	1/d	0.350
PPMaxAlg04	maximum production rate algae type 04	1/d	0.350
PPMaxAlg05	maximum production rate algae type 05	1/d	0.350
PPMaxAlg06	maximum production rate algae type 06	1/d	0.350
PPMaxAlg07	maximum production rate algae type 07	1/d	0.350

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Process	Description	Unit	Default
PPMaxAlg08	maximum production rate algae type 08	1/d	0.350
PPMaxAlg09	maximum production rate algae type 09	1/d	0.350
PPMaxAlg10	maximum production rate algae type 10	1/d	0.350
PPMaxAlg11	maximum production rate algae type 11	1/d	0.350
PPMaxAlg12	maximum production rate algae type 12	1/d	0.350
PPMaxAlg13	maximum production rate algae type 13	1/d	0.350
PPMaxAlg14	maximum production rate algae type 14	1/d	0.350
PPMaxAlg15	maximum production rate algae type 15	1/d	0.350
PPMaxAlg16	maximum production rate algae type 16	1/d	0.350
PPMaxAlg17	maximum production rate algae type 17	1/d	0.350
PPMaxAlg18	maximum production rate algae type 18	1/d	0.350
PPMaxAlg19	maximum production rate algae type 19	1/d	0.350
PPMaxAlg20	maximum production rate algae type 20	1/d	0.350
PPMaxAlg21	maximum production rate algae type 21	1/d	0.350
PPMaxAlg22	maximum production rate algae type 22	1/d	0.350
PPMaxAlg23	maximum production rate algae type 23	1/d	0.350
PPMaxAlg24	maximum production rate algae type 24	1/d	0.350
PPMaxAlg25	maximum production rate algae type 25	1/d	0.350
PPMaxAlg26	maximum production rate algae type 26	1/d	0.350
PPMaxAlg27	maximum production rate algae type 27	1/d	0.350
PPMaxAlg28	maximum production rate algae type 28	1/d	0.350
PPMaxAlg29	maximum production rate algae type 29	1/d	0.350
PPMaxAlg30	maximum production rate algae type 30	1/d	0.350
TcPMxAlg01	temp. coeff. for growth processes algae type 01	-	1.060
TcPMxAlg02	temp. coeff. for growth processes algae type 02	-	1.060
TcPMxAlg03	temp. coeff. for growth processes algae type 03	-	1.060
TcPMxAlg04	temp. coeff. for growth processes algae type 04	-	1.060
TcPMxAlg05	temp. coeff. for growth processes algae type 05	-	1.060
TcPMxAlg06	temp. coeff. for growth processes algae type 06	-	1.060
TcPMxAlg07	temp. coeff. for growth processes algae type 07	-	1.060
TcPMxAlg08	temp. coeff. for growth processes algae type 08	-	1.060
TcPMxAlg09	temp. coeff. for growth processes algae type 09	-	1.060
TcPMxAlg10	temp. coeff. for growth processes algae type 10	-	1.060
TcPMxAlg11	temp. coeff. for growth processes algae type 11	-	1.060
TcPMxAlg12	temp. coeff. for growth processes algae type 12	-	1.060
TcPMxAlg13	temp. coeff. for growth processes algae type 13	-	1.060
TcPMxAlg14	temp. coeff. for growth processes algae type 14	-	1.060
TcPMxAlg15	temp. coeff. for growth processes algae type 15	-	1.060
TcPMxAlg16	temp. coeff. for growth processes algae type 16	-	1.060
TcPMxAlg17	temp. coeff. for growth processes algae type 17	-	1.060
TcPMxAlg18	temp. coeff. for growth processes algae type 18	-	1.060
TcPMxAlg19	temp. coeff. for growth processes algae type 19	-	1.060
TcPMxAlg20	temp. coeff. for growth processes algae type 20	-	1.060
TcPMxAlg21	temp. coeff. for growth processes algae type 21	-	1.060
TcPMxAlg22	temp. coeff. for growth processes algae type 22	-	1.060
TcPMxAlg23	temp. coeff. for growth processes algae type 23	-	1.060
TcPMxAlg24	temp. coeff. for growth processes algae type 24	-	1.060
TcPMxAlg25	temp. coeff. for growth processes algae type 25	-	1.060
TcPMxAlg26	temp. coeff. for growth processes algae type 26	-	1.060
TcPMxAlg27	temp. coeff. for growth processes algae type 27	-	1.060
TcPMxAlg28	temp. coeff. for growth processes algae type 28	-	1.060
TcPMxAlg29	temp. coeff. for growth processes algae type 29	-	1.060
TcPMxAlg30	temp. coeff. for growth processes algae type 30	-	1.060
TfPMxAlg01	temp. dependency PMAX algae type01 0=lin,<>0=exp	-	1.000
TfPMxAlg02	temp. dependency PMAX algae type02 0=lin,<>0=exp	-	1.000
TfPMxAlg03	temp. dependency PMAX algae type03 0=lin,<>0=exp	-	1.000
TfPMxAlg04	temp. dependency PMAX algae type04 0=lin,<>0=exp	-	1.000
TfPMxAlg05	temp. dependency PMAX algae type05 0=lin,<>0=exp	-	1.000
TfPMxAlg06	temp. dependency PMAX algae type06 0=lin,<>0=exp	-	1.000
TfPMxAlg07	temp. dependency PMAX algae type07 0=lin,<>0=exp	-	1.000
TfPMxAlg08	temp. dependency PMAX algae type08 0=lin,<>0=exp	-	1.000
TfPMxAlg09	temp. dependency PMAX algae type09 0=lin,<>0=exp	-	1.000
TfPMxAlg10	temp. dependency PMAX algae type10 0=lin,<>0=exp	-	1.000
TfPMxAlg11	temp. dependency PMAX algae type11 0=lin,<>0=exp	-	1.000
TfPMxAlg12	temp. dependency PMAX algae type12 0=lin,<>0=exp	-	1.000
TfPMxAlg13	temp. dependency PMAX algae type13 0=lin,<>0=exp	-	1.000
TfPMxAlg14	temp. dependency PMAX algae type14 0=lin,<>0=exp	-	1.000
TfPMxAlg15	temp. dependency PMAX algae type15 0=lin,<>0=exp	-	1.000
TfPMxAlg16	temp. dependency PMAX algae type16 0=lin,<>0=e	-	1.000
TfPMxAlg17	temp. dependency PMAX algae type17 0=lin,<>0=e	-	1.000
TfPMxAlg18	temp. dependency PMAX algae type18 0=lin,<>0=e	-	1.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
TFPMxAlg19	temp. dependency PMAX algae type19 0=lin,<>0=e	-	1.000
TFPMxAlg20	temp. dependency PMAX algae type20 0=lin,<>0=e	-	1.000
TFPMxAlg21	temp. dependency PMAX algae type21 0=lin,<>0=e	-	1.000
TFPMxAlg22	temp. dependency PMAX algae type22 0=lin,<>0=e	-	1.000
TFPMxAlg23	temp. dependency PMAX algae type23 0=lin,<>0=e	-	1.000
TFPMxAlg24	temp. dependency PMAX algae type24 0=lin,<>0=e	-	1.000
TFPMxAlg25	temp. dependency PMAX algae type25 0=lin,<>0=e	-	1.000
TFPMxAlg26	temp. dependency PMAX algae type26 0=lin,<>0=e	-	1.000
TFPMxAlg27	temp. dependency PMAX algae type27 0=lin,<>0=e	-	1.000
TFPMxAlg28	temp. dependency PMAX algae type28 0=lin,<>0=e	-	1.000
TFPMxAlg29	temp. dependency PMAX algae type29 0=lin,<>0=e	-	1.000
TFPMxAlg30	temp. dependency PMAX algae type30 0=lin,<>0=e	-	1.000
Mort0Alg01	mortality rate at 0 °C algae type 01	1/d	0.045
Mort0Alg02	mortality rate at 0 °C algae type 02	1/d	0.045
Mort0Alg03	mortality rate at 0 °C algae type 03	1/d	0.045
Mort0Alg04	mortality rate at 0 °C algae type 04	1/d	0.045
Mort0Alg05	mortality rate at 0 °C algae type 05	1/d	0.045
Mort0Alg06	mortality rate at 0 °C algae type 06	1/d	0.045
Mort0Alg07	mortality rate at 0 °C algae type 07	1/d	0.045
Mort0Alg08	mortality rate at 0 °C algae type 08	1/d	0.045
Mort0Alg09	mortality rate at 0 °C algae type 09	1/d	0.045
Mort0Alg10	mortality rate at 0 °C algae type 10	1/d	0.045
Mort0Alg11	mortality rate at 0 °C algae type 11	1/d	0.045
Mort0Alg12	mortality rate at 0 °C algae type 12	1/d	0.045
Mort0Alg13	mortality rate at 0 °C algae type 13	1/d	0.045
Mort0Alg14	mortality rate at 0 °C algae type 14	1/d	0.045
Mort0Alg15	mortality rate at 0 °C algae type 15	1/d	0.045
Mort0Alg16	mortality rate at 0 °C algae type 16	1/d	0.045
Mort0Alg17	mortality rate at 0 °C algae type 17	1/d	0.045
Mort0Alg18	mortality rate at 0 °C algae type 18	1/d	0.045
Mort0Alg19	mortality rate at 0 °C algae type 19	1/d	0.045
Mort0Alg20	mortality rate at 0 °C algae type 20	1/d	0.045
Mort0Alg21	mortality rate at 0 °C algae type 21	1/d	0.045
Mort0Alg22	mortality rate at 0 °C algae type 22	1/d	0.045
Mort0Alg23	mortality rate at 0 °C algae type 23	1/d	0.045
Mort0Alg24	mortality rate at 0 °C algae type 24	1/d	0.045
Mort0Alg25	mortality rate at 0 °C algae type 25	1/d	0.045
Mort0Alg26	mortality rate at 0 °C algae type 26	1/d	0.045
Mort0Alg27	mortality rate at 0 °C algae type 27	1/d	0.045
Mort0Alg28	mortality rate at 0 °C algae type 28	1/d	0.045
Mort0Alg29	mortality rate at 0 °C algae type 29	1/d	0.045
Mort0Alg30	mortality rate at 0 °C algae type 30	1/d	0.045
TcMrtAlg01	temperature coeff. for mortality algae type 01	-	1.085
TcMrtAlg02	temperature coeff. for mortality algae type 02	-	1.085
TcMrtAlg03	temperature coeff. for mortality algae type 03	-	1.085
TcMrtAlg04	temperature coeff. for mortality algae type 04	-	1.085
TcMrtAlg05	temperature coeff. for mortality algae type 05	-	1.085
TcMrtAlg06	temperature coeff. for mortality algae type 06	-	1.085
TcMrtAlg07	temperature coeff. for mortality algae type 07	-	1.085
TcMrtAlg08	temperature coeff. for mortality algae type 08	-	1.085
TcMrtAlg09	temperature coeff. for mortality algae type 09	-	1.085
TcMrtAlg10	temperature coeff. for mortality algae type 10	-	1.085
TcMrtAlg11	temperature coeff. for mortality algae type 11	-	1.085
TcMrtAlg12	temperature coeff. for mortality algae type 12	-	1.085
TcMrtAlg13	temperature coeff. for mortality algae type 13	-	1.085
TcMrtAlg14	temperature coeff. for mortality algae type 14	-	1.085
TcMrtAlg15	temperature coeff. for mortality algae type 15	-	1.085
TcMrtAlg16	temperature coeff. for mortality algae type 16	-	1.085
TcMrtAlg17	temperature coeff. for mortality algae type 17	-	1.085
TcMrtAlg18	temperature coeff. for mortality algae type 18	-	1.085
TcMrtAlg19	temperature coeff. for mortality algae type 19	-	1.085
TcMrtAlg20	temperature coeff. for mortality algae type 20	-	1.085
TcMrtAlg21	temperature coeff. for mortality algae type 21	-	1.085
TcMrtAlg22	temperature coeff. for mortality algae type 22	-	1.085
TcMrtAlg23	temperature coeff. for mortality algae type 23	-	1.085
TcMrtAlg24	temperature coeff. for mortality algae type 24	-	1.085
TcMrtAlg25	temperature coeff. for mortality algae type 25	-	1.085
TcMrtAlg26	temperature coeff. for mortality algae type 26	-	1.085
TcMrtAlg27	temperature coeff. for mortality algae type 27	-	1.085
TcMrtAlg28	temperature coeff. for mortality algae type 28	-	1.085
TcMrtAlg29	temperature coeff. for mortality algae type 29	-	1.085

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
TcMrtAlg30	temperature coeff. for mortality algae type 30	-	1.085
MRespAlg01	maintenance respiration rate algae type 01	1/d	0.031
MRespAlg02	maintenance respiration rate algae type 02	1/d	0.031
MRespAlg03	maintenance respiration rate algae type 03	1/d	0.031
MRespAlg04	maintenance respiration rate algae type 04	1/d	0.031
MRespAlg05	maintenance respiration rate algae type 05	1/d	0.031
MRespAlg06	maintenance respiration rate algae type 06	1/d	0.031
MRespAlg07	maintenance respiration rate algae type 07	1/d	0.031
MRespAlg08	maintenance respiration rate algae type 08	1/d	0.031
MRespAlg09	maintenance respiration rate algae type 09	1/d	0.031
MRespAlg10	maintenance respiration rate algae type 10	1/d	0.031
MRespAlg11	maintenance respiration rate algae type 11	1/d	0.031
MRespAlg12	maintenance respiration rate algae type 12	1/d	0.031
MRespAlg13	maintenance respiration rate algae type 13	1/d	0.031
MRespAlg14	maintenance respiration rate algae type 14	1/d	0.031
MRespAlg15	maintenance respiration rate algae type 15	1/d	0.031
MRespAlg16	maintenance respiration rate algae type 16	1/d	0.031
MRespAlg17	maintenance respiration rate algae type 17	1/d	0.031
MRespAlg18	maintenance respiration rate algae type 18	1/d	0.031
MRespAlg19	maintenance respiration rate algae type 19	1/d	0.031
MRespAlg20	maintenance respiration rate algae type 20	1/d	0.031
MRespAlg21	maintenance respiration rate algae type 21	1/d	0.031
MRespAlg22	maintenance respiration rate algae type 22	1/d	0.031
MRespAlg23	maintenance respiration rate algae type 23	1/d	0.031
MRespAlg24	maintenance respiration rate algae type 24	1/d	0.031
MRespAlg25	maintenance respiration rate algae type 25	1/d	0.031
MRespAlg26	maintenance respiration rate algae type 26	1/d	0.031
MRespAlg27	maintenance respiration rate algae type 27	1/d	0.031
MRespAlg28	maintenance respiration rate algae type 28	1/d	0.031
MRespAlg29	maintenance respiration rate algae type 29	1/d	0.031
MRespAlg30	maintenance respiration rate algae type 30	1/d	0.031
TcRspAlg01	temperature coeff. for respiration algae type 01	-	1.072
TcRspAlg02	temperature coeff. for respiration algae type 02	-	1.072
TcRspAlg03	temperature coeff. for respiration algae type 03	-	1.072
TcRspAlg04	temperature coeff. for respiration algae type 04	-	1.072
TcRspAlg05	temperature coeff. for respiration algae type 05	-	1.072
TcRspAlg06	temperature coeff. for respiration algae type 06	-	1.072
TcRspAlg07	temperature coeff. for respiration algae type 07	-	1.072
TcRspAlg08	temperature coeff. for respiration algae type 08	-	1.072
TcRspAlg09	temperature coeff. for respiration algae type 09	-	1.072
TcRspAlg10	temperature coeff. for respiration algae type 10	-	1.072
TcRspAlg11	temperature coeff. for respiration algae type 11	-	1.072
TcRspAlg12	temperature coeff. for respiration algae type 12	-	1.072
TcRspAlg13	temperature coeff. for respiration algae type 13	-	1.072
TcRspAlg14	temperature coeff. for respiration algae type 14	-	1.072
TcRspAlg15	temperature coeff. for respiration algae type 15	-	1.072
TcRspAlg16	temperature coeff. for respiration algae type 1	-	1.072
TcRspAlg17	temperature coeff. for respiration algae type 1	-	1.072
TcRspAlg18	temperature coeff. for respiration algae type 1	-	1.072
TcRspAlg19	temperature coeff. for respiration algae type 1	-	1.072
TcRspAlg20	temperature coeff. for respiration algae type 1	-	1.072
TcRspAlg21	temperature coeff. for respiration algae type 1	-	1.072
TcRspAlg22	temperature coeff. for respiration algae type 1	-	1.072
TcRspAlg23	temperature coeff. for respiration algae type 1	-	1.072
TcRspAlg24	temperature coeff. for respiration algae type 1	-	1.072
TcRspAlg25	temperature coeff. for respiration algae type 1	-	1.072
TcRspAlg26	temperature coeff. for respiration algae type 1	-	1.072
TcRspAlg27	temperature coeff. for respiration algae type 1	-	1.072
TcRspAlg28	temperature coeff. for respiration algae type 1	-	1.072
TcRspAlg29	temperature coeff. for respiration algae type 1	-	1.072
TcRspAlg30	temperature coeff. for respiration algae type 1	-	1.072
SDMixAlg01	distribution in water column algae type 01	-	1.000
SDMixAlg02	distribution in water column algae type 02	-	1.000
SDMixAlg03	distribution in water column algae type 03	-	1.000
SDMixAlg04	distribution in water column algae type 04	-	1.000
SDMixAlg05	distribution in water column algae type 05	-	1.000
SDMixAlg06	distribution in water column algae type 06	-	1.000
SDMixAlg07	distribution in water column algae type 07	-	1.000
SDMixAlg08	distribution in water column algae type 08	-	1.000
SDMixAlg09	distribution in water column algae type 09	-	1.000
SDMixAlg10	distribution in water column algae type 10	-	1.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
SDMixAlg11	distribution in water column algae type 11	-	1.000
SDMixAlg12	distribution in water column algae type 12	-	1.000
SDMixAlg13	distribution in water column algae type 13	-	1.000
SDMixAlg14	distribution in water column algae type 14	-	1.000
SDMixAlg15	distribution in water column algae type 15	-	1.000
SDMixAlg16	distribution in water column algae type 16	-	1.000
SDMixAlg17	distribution in water column algae type 17	-	1.000
SDMixAlg18	distribution in water column algae type 18	-	1.000
SDMixAlg19	distribution in water column algae type 19	-	1.000
SDMixAlg20	distribution in water column algae type 20	-	1.000
SDMixAlg21	distribution in water column algae type 21	-	1.000
SDMixAlg22	distribution in water column algae type 22	-	1.000
SDMixAlg23	distribution in water column algae type 23	-	1.000
SDMixAlg24	distribution in water column algae type 24	-	1.000
SDMixAlg25	distribution in water column algae type 25	-	1.000
SDMixAlg26	distribution in water column algae type 26	-	1.000
SDMixAlg27	distribution in water column algae type 27	-	1.000
SDMixAlg28	distribution in water column algae type 28	-	1.000
SDMixAlg29	distribution in water column algae type 29	-	1.000
SDMixAlg30	distribution in water column algae type 30	-	1.000
MrtExAlg01	coefficient increased mortality rate algae type 01	1/(d °C)	0.000
MrtExAlg02	coefficient increased mortality rate algae type 02	1/(d °C)	0.000
MrtExAlg03	coefficient increased mortality rate algae type 03	1/(d °C)	0.000
MrtExAlg04	coefficient increased mortality rate algae type 04	1/(d °C)	0.000
MrtExAlg05	coefficient increased mortality rate algae type 05	1/(d °C)	0.000
MrtExAlg06	coefficient increased mortality rate algae type 06	1/(d °C)	0.000
MrtExAlg07	coefficient increased mortality rate algae type 07	1/(d °C)	0.000
MrtExAlg08	coefficient increased mortality rate algae type 08	1/(d °C)	0.000
MrtExAlg09	coefficient increased mortality rate algae type 09	1/(d °C)	0.000
MrtExAlg10	coefficient increased mortality rate algae type 10	1/(d °C)	0.000
MrtExAlg11	coefficient increased mortality rate algae type 11	1/(d °C)	0.000
MrtExAlg12	coefficient increased mortality rate algae type 12	1/(d °C)	0.000
MrtExAlg13	coefficient increased mortality rate algae type 13	1/(d °C)	0.000
MrtExAlg14	coefficient increased mortality rate algae type 14	1/(d °C)	0.000
MrtExAlg15	coefficient increased mortality rate algae type 15	1/(d °C)	0.000
MrtExAlg16	coefficient increased mortality rate algae	1/(d °C)	0.000
MrtExAlg17	coefficient increased mortality rate algae	1/(d °C)	0.000
MrtExAlg18	coefficient increased mortality rate algae	1/(d °C)	0.000
MrtExAlg19	coefficient increased mortality rate algae	1/(d °C)	0.000
MrtExAlg20	coefficient increased mortality rate algae	1/(d °C)	0.000
MrtExAlg21	coefficient increased mortality rate algae	1/(d °C)	0.000
MrtExAlg22	coefficient increased mortality rate algae	1/(d °C)	0.000
MrtExAlg23	coefficient increased mortality rate algae	1/(d °C)	0.000
MrtExAlg24	coefficient increased mortality rate algae	1/(d °C)	0.000
MrtExAlg25	coefficient increased mortality rate algae	1/(d °C)	0.000
MrtExAlg26	coefficient increased mortality rate algae	1/(d °C)	0.000
MrtExAlg27	coefficient increased mortality rate algae	1/(d °C)	0.000
MrtExAlg28	coefficient increased mortality rate algae	1/(d °C)	0.000
MrtExAlg29	coefficient increased mortality rate algae	1/(d °C)	0.000
MrtExAlg30	coefficient increased mortality rate algae	1/(d °C)	0.000
Mort2Alg01	salinity dependent mortality rate algae type 01	1/d	0.000
Mort2Alg02	salinity dependent mortality rate algae type 02	1/d	0.000
Mort2Alg03	salinity dependent mortality rate algae type 03	1/d	0.000
Mort2Alg04	salinity dependent mortality rate algae type 04	1/d	0.000
Mort2Alg05	salinity dependent mortality rate algae type 05	1/d	0.000
Mort2Alg06	salinity dependent mortality rate algae type 06	1/d	0.000
Mort2Alg07	salinity dependent mortality rate algae type 07	1/d	0.000
Mort2Alg08	salinity dependent mortality rate algae type 08	1/d	0.000
Mort2Alg09	salinity dependent mortality rate algae type 09	1/d	0.000
Mort2Alg10	salinity dependent mortality rate algae type 10	1/d	0.000
Mort2Alg11	salinity dependent mortality rate algae type 11	1/d	0.000
Mort2Alg12	salinity dependent mortality rate algae type 12	1/d	0.000
Mort2Alg13	salinity dependent mortality rate algae type 13	1/d	0.000
Mort2Alg14	salinity dependent mortality rate algae type 14	1/d	0.000
Mort2Alg15	salinity dependent mortality rate algae type 15	1/d	0.000
Mort2Alg16	salinity dependent mortality rate algae type	1/d	0.000
Mort2Alg17	salinity dependent mortality rate algae type	1/d	0.000
Mort2Alg18	salinity dependent mortality rate algae type	1/d	0.000
Mort2Alg19	salinity dependent mortality rate algae type	1/d	0.000
Mort2Alg20	salinity dependent mortality rate algae type	1/d	0.000
Mort2Alg21	salinity dependent mortality rate algae type	1/d	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
MrtB2Alg30	coefficient b2 in salinity stress funct. a	gCl/m ³	8000.000
Phyt	total carbon in phytoplankton	gC/m ³	0.000
AlgN	total nitrogen in algae	gN/m ³	0.000
AlgP	total phosphorus in algae	gP/m ³	0.000
AlgSi	total silica in algae	gSi/m ³	0.000
AlgDM	total DM in algae	gDM/m ³	0.000
Chlfa	Chlorophyll-a concentration	mg/m ³	0.000
FCSEDIM2	organic carbon in sediment fraction 2	gOC/gDM	0.000
FCSEDIM3	organic carbon in sediment fraction 3	gOC/gDM	0.000
DMCFOOC	DM:C ratio POC	gDM/gC	2.500
FCSEDIM2S1	organic carbon in sediment fraction 2 in layer S1	gOC/gDM	0.000
FCSEDIM3S1	organic carbon in sediment fraction 3 in layer S1	gOC/gDM	0.000
DMCFOOCS	DM:C ratio POCS1 and POCS2	gDM/gC	1.700
FCSEDIM2S2	organic carbon in sediment fraction 2 in layer S2	gOC/gDM	0.000
FCSEDIM3S2	organic carbon in sediment fraction 3 in layer S2	gOC/gDM	0.000
NCRatDiat	N:C ratio Diatoms	gN/gC	0.160
NCRatGreen	N:C ratio Greens	gN/gC	0.160
PCRatDiat	P:C ratio Diatoms	gP/gC	0.020
PCRatGreen	P:C ratio Greens	gP/gC	0.020
SCRatDiat	Si:C ratio Diatoms	gSi/gC	0.490
SCRatGreen	Si:C ratio Greens	gSi/gC	0.000
DMCFDiat	DM:C ratio Diatoms	gDM/gC	2.500
DMCFGreen	DM:C ratio GreenS	gDM/gC	2.500
Ditochl	Chlorophyll-a:C ratio in Diatoms	mg Chlfa/g C	50.000
Grtochl	Chlorophyll-a:C ratio in Greens	mg Chlfa/g C	50.000
POCnoa	total POC no algae	gC/m ³	0.000
DMCFIM1	DM:C ratio IM1	gDM/gDM	1.000
DMCFIM2	DM:C ratio IM2	gDM/gDM	1.000
DMCFIM3	DM:C ratio IM3	gDM/gDM	1.000
DMCFDetCS	DM:C ratio DetCS1 and DetCS2	gDM/gC	1.700
DMCFDiatS	DM:C ratio DiatS1 and DiatS2	gDM/gC	1.700
DMCFGreenS	DM:C ratio GreenS1 and GreenS2	gDM/gC	1.700
RHOIM1	bulk density IM1	gDM/m ³	2600000.000
RHOIM2	bulk density IM2	gDM/m ³	2600000.000
RHOIM3	bulk density IM3	gDM/m ³	2600000.000
RHODetC	bulk density DetC	gDM/m ³	1300000.000
RHOOC	bulk density OOC	gDM/m ³	1300000.000
RHODiat	bulk density Diatoms	gDM/m ³	1300000.000
RHOGreen	bulk density Greens	gDM/m ³	1300000.000
PORS1	porosity of sediment layer S1	-	0.000
DmCfMPB1	DM:C ratio MPB1 algae	gDM/gC	2.500
DmCfMPB2	DM:C ratio MPB2 algae	gDM/gC	2.500
RhoOM	dry bulk density organic matter	gDM/m ³ OM	1300000.000
DMS1	total amount of dry matter in layer S1	gDM/m ²	0.000
POCS1	total POC in layer S1	gC/m ²	0.000
PHYTS1	total carbon in phytoplankton in layer S1	gC/m ²	0.000
ActThS1	actual thickness layer S1	m	0.100
PORS2	porosity of sediment layer S2	m ³ pores/m ³ bulk	0.000
DMS2	total amount of dry matter in layer S2	gDM/m ²	0.000
POCS2	total POC in layer S2	gC/m ²	0.000
PHYTS2	total carbon in phytoplankton in layer S2	gC/m ²	0.000
RHOS2	overall bulk density layer S2	g/m ³	0.000
ActThS2	actual thickness layer S2	m	0.100
FrIM1S2	fraction IM1 in layer S2	gDM/gDM	0.000
FrIM2S2	fraction IM2 in layer S2	gDM/gDM	0.000
FrIM3S2	fraction IM3 in layer S2	gDM/gDM	0.000
FrDetCS2	fraction DetC in layer S2	gC/gDM	0.000
FrOOCs2	fraction OOC in layer S2	gC/gDM	0.000
FrDiatS2	fraction Diatoms in layer S2	gC/gDM	0.000
FrMPB1S2	fraction MPB1 in layer S2	gC/gDM	0.000
FrMPB2S2	fraction MPB2 in layer S2	gC/gDM	0.000
dummy	dummy input item	-	0.000
DmCfPOC1	DM:C ratio POC1	gDM/gC	2.500
DmCfPOC2	DM:C ratio POC2	gDM/gC	2.500
DmCfPOC3	DM:C ratio POC3	gDM/gC	2.500
DmCfPOC4	DM:C ratio POC4	gDM/gC	2.500
SS	suspended solids	g/m ³	10.000
RhoIM	dry bulk density inorganic matter	gDM/m ³ IM	2600000.000
RcMrtEColi	first-order mortality rate EColi	1/d	0.800
TcMrtEColi	temperature coefficient for mortality EColi	-	1.070

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Process	Description	Unit	Default
CTMrTEColi	critical temperature for mortality EColi	°C	2.000
CFRAD	conversion factor RAD to mortality rate	m ² /W/d	0.086
FrUvVL	fraction UV light in visible light	-	0.120
SpMrTEColi	chloride enhanced mortality rate EColi	m ³ /g/d	0.000
RcMrTEColi	first-order mortality rate FColi	1/d	0.800
TcMrTEColi	temperature coefficient for mortality FColi	-	1.070
CTMrTEColi	critical temperature for mortality FColi	°C	2.000
SpMrTEColi	chloride enhanced mortality rate FColi	m ³ /g/d	0.000
RcMrTEColi	first-order mortality rate TColi	1/d	0.800
TcMrTEColi	temperature coefficient for mortality TColi	-	1.070
CTMrTEColi	critical temperature for mortality TColi	°C	2.000
SpMrTEColi	chloride enhanced mortality rate TColi	m ³ /g/d	0.000
RcMrTEnCoc	first-order mortality rate EnCoc	1/d	0.800
TcMrTEnCoc	temperature coefficient for mortality EnCoc	-	1.070
CTMrTEnCoc	critical temperature for mortality EnCoc	°C	2.000
SpMrTEnCoc	chloride enhanced mortality rate EnCoc	m ³ /g/d	0.000
SWSatCO2	switch for CO2 saturation formulation 1, 2	-	1.000
PCO2	partial atmospheric CO2 pressure	atm	0.000
SWRearCO2	switch for CO2 reaeration formulation 11,14	-	14.000
KLRearCO2	CO2 reaeration transfer coefficient	m/d	1.000
TCRearCO2	temperature coefficient for reaeration CO2	-	1.016
fcover	fraction of water surface covered <0-1>	-	0.000
KLRMaxCO2	maximum KLREAR CO2 for temperature correction	m/d	1000.000
KLRMinCO2	minimum reaeration transfer coefficient CO2	m/d	0.200
Rain	rainfall rate	mm/h	0.000
coefACO2	gas transfer CO2 coefficient transmission	m/d	1.660
coefB1CO2	gas transfer CO2 coefficient wind scale 1	no unit	0.260
coefB2CO2	gas transfer CO2 coefficient wind scale 2	no unit	1.000
coefC1CO2	gas transfer CO2 coefficient rain scale 1	no unit	0.660
coefC2CO2	gas transfer CO2 coefficient rain scale 2	no unit	1.000
coefD1CO2	fresh water coefficient1 for Schmidt nr CO2	no unit	1800.060
coefD2CO2	fresh water coefficient2 for Schmidt nr CO2	no unit	120.100
coefD3CO2	fresh water coefficient3 for Schmidt nr CO2	no unit	3.782
coefD4CO2	fresh water coefficient4 for Schmidt nr CO2	no unit	0.048
SWAdSP	switch PO4 adsorption <0=Kd 1=Langmuir 2=pHdep>	-	1.000
KdPO4AAP	distrib. coeff. - or ads. eq. const.	m ³ /gP	0.100
MaxPO4AAP	adsorption capacity TIM for PO4	gP/gFe	0.150
KadsP_20	Adsorption equilibrium constant at 20 °C	(mol l) ⁻¹ a	3.800
TCKadsP	temperature dependency constant Kads	-	1.000
RcAdPO4AAP	adsorption rate PO4 -> AAP	1/d	1.000
a_OH-PO4	OH-:PO4 ratio in sorption reaction	molOH/molPO4	0.200
fr_FeIM1	fraction Fe in inorg. matter IM1	gFe/gDM	0.030
fr_FeIM2	fraction Fe in inorg. matter IM2	gFe/gDM	0.005
fr_FeIM3	fraction Fe in inorg. matter IM3	gFe/gDM	0.001
fr_Feox	fraction reactive Fe of total Fe	-	1.000
Cc_oxPsor	critical oxygen conc for P sorption	gO2/m ³	0.000
SWVnAdsP	switch to select old0 or new1 version	-	0.000
fr_Fe	fraction Fe in solid matter	gFe/gDM	0.020
RCadsPgern	pseudo first-order rate PO4 sorption	1/d	1.000
QIM2	quality IM2 for P	gP/gDM	0.000
QIM3	quality IM3 for P	gP/gDM	0.000
ZDenSed	zeroth-order denitrification flux in the sediment	gN/(m ² d)	0.000
RcDenSed	first-order denitrification rate in the sediment	m/d	0.100
TcDen	temperature coefficient for denitrification	-	1.120
CTDEN	critical temperature for denitrification	°C	2.000
ZDenWat	zero-order denitrification rate in water column	gN/m ³ /d	0.000
RcDen20	MM-denitrification reaction rate at 20 °C	gN/m ³ /d	0.100
TcDenWat	temperature coefficient for denitrification	-	1.070
KsNiDen	half saturation constant for nitrate cons.	gN/m ³	0.500
KsOxDen	half saturation constant for oxygen inhib.	g/m ³	1.000
Rc0DenOx	zero-order denit. rate at low temperature	gN/m ³ /d	0.000
COXDEN	critical oxygen concentration for denitrification	g/m ³	3.000
SWVnDen	switch to select old 0 or new 1 version	-	0.000
RcDenWat	first-order denitrification rate in water column	1/d	0.100
OOXDEN	optimum oxygen concentration for denitrification	gO2/m ³	1.000
Curvat	curvature of DO function for denitrification	-	1.000
ZNit	zeroth-order nitrification flux	gN/m ³ /d	0.000
RcNit20	MM- nitrification rate at 20 °C	gN/m ³ /d	0.100
TcNit	temperature coefficient for nitrification	-	1.070
KsAmNit	half saturation constant for ammonium cons.	gN/m ³	0.500

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Process	Description	Unit	Default
KsOxNit	half saturation constant for DO cons.	g/m ³	1.000
CTNit	critical temperature for nitrification	°C	3.000
Rc0NitOx	zero-order nitrification rate at neg. DO	gN/m ³ /d	0.000
COXNIT	critical oxygen concentration for nitrification	g/m ³	1.000
SWVnNit	switch for old 0, new 1, TEWOR 2 version	-	0.000
RcNit	first-order nitrification rate	1/d	0.100
OOXNIT	optimum oxygen concentration for nitrification	gO ₂ /m ³	5.000
CFLNIT	oxygen function level for oxygen below COXNIT	-	0.000
CurvNit	curvature of DO function for nitrification	-	0.000
SWSatOXY	switch for oxygen saturation formulation 1, 2	-	1.000
SWRear	switch for oxygen reaeration formulation 1-13	-	1.000
KLRear	reaeration transfer coefficient	m/d	1.000
TCRear	temperature coefficient for reaeration	-	1.016
KLRearMax	maximum KLREAR oxygen for temp. correction	m/d	1000.000
KLRearMin	minimum reaeration transfer coefficient oxygen	m/d	0.200
coefAOxy	gas transfer Oxy coefficient transmission	m/d	1.660
coefB1Oxy	gas transfer O ₂ coefficient wind scale 1	no unit	0.260
coefB2Oxy	gas transfer O ₂ coefficient wind scale 2	no unit	1.000
coefC1Oxy	gas transfer O ₂ coefficient rain scale 1	no unit	0.660
coefC2Oxy	gas transfer O ₂ coefficient rain scale 2	no unit	1.000
coefD1Oxy	fresh water coefficient1 for Schmidt nr Oxy	no unit	1800.060
coefD2Oxy	fresh water coefficient2 for Schmidt nr Oxy	no unit	120.100
coefD3Oxy	fresh water coefficient3 for Schmidt nr Oxy	no unit	3.782
coefD4Oxy	fresh water coefficient4 for Schmidt nr Oxy	no unit	0.048
RefHour	hour at start of the simulation	h	0.000
T1MxPP	start of period of maximum primary production	h	9.000
T2MxPP	end of period of maximum primary production	h	17.000
ZMinDetCS1	zeroth-order mineralisation flux DetC in layer S1	gC/(m ² d)	0.000
RcDetCS1	first-order mineralisation rate DetC in layer S1	1/d	0.030
TcBMDetC	temperature coeff. mineralisation DetC in sediment	-	1.090
CTMin	critical temperature for mineralisation	°C	3.000
SedZoneSW	SWITCH 0=no SWITCH, <0 per segment, >0 per zone	-	0.000
dMinDetCS1	mineralisation flux DetCS1	gC/m ³ /d	0.000
ZMinDetCS2	zeroth-order mineralisation flux DetC in layer S2	gC/(m ² d)	0.000
RcDetCS2	first-order mineralisation rate DetC in layer S2	1/d	0.030
dMinDetCS2	mineralisation flux DetCS2	gC/m ³ /d	0.000
ZMinDetNS1	zeroth-order mineralisation flux DetN in layer S1	gN/(m ² d)	0.000
RcDetNS1	first-order mineralisation rate DetN in layer S1	1/d	0.030
TcBMDetN	temperature coeff. mineralisation DetN in sediment	-	1.090
dMinDetNS1	mineralisation flux DetNS1	gN/m ³ /d	0.000
dSWMinDNS1	SWITCH mineralisation flux DetN in layer S1	gN/m ³ /d	0.000
ZMinDetNS2	zeroth-order mineralisation flux DetN in layer S2	gN/(m ² d)	0.000
RcDetNS2	first-order mineralisation rate DetN in layer S2	1/d	0.030
ZMinDetPS1	zeroth-order mineralisation flux DetP in layer S1	gP/(m ² d)	0.000
RcDetPS1	first-order mineralisation rate DetP in layer S1	1/d	0.030
TcBMDetP	temperature coeff. mineralisation DetP in sediment	-	1.090
dMinDetPS1	mineralisation flux DetPS1	gP/m ³ /d	0.000
dSWMinDPS1	SWITCH mineralisation flux DetP in layer S1	gN/m ³ /d	0.000
ZMinDetPS2	zeroth-order mineralisation flux DetP in layer S2	gP/(m ² d)	0.000
RcDetPS2	first-order mineralisation rate DetP in layer S2	1/d	0.030
ZMinDetSS1	zeroth-order mineralisation flux DetSi in layer S1	gSi/(m ² d)	0.000
RcDetSiS1	first-order mineralisation rate DetSi in layer S1	1/d	0.015
TcBMDetSi	temp. coeff. mineralisation DetSi in sediment	-	1.090
dMinDetSiS	mineralisation flux DetSiS1	gSi/m ³ /d	0.000
dSWMinDSS1	SWITCH mineralisation flux DetSi in layer S1	gSi/m ³ /d	0.000
ZMinDetSS2	zeroth-order mineralisation flux DetSi in layer S2	gSi/(m ² d)	0.000
RcDetSiS2	first-order mineralisation rate DetSi in layer S2	1/d	0.015
ZMinOOCs1	zeroth-order mineralisation flux OOC in layer S1	gC/(m ² d)	0.000
RcOOCs1	first-order mineralisation rate OOC in layer S1	1/d	0.030
TcBMOOC	temperature coeff. mineralisation OOC in sediment	-	1.090
dMinOOCs1	mineralisation flux OOCs1	gC/m ³ /d	0.000
ZMinOOCs2	zeroth-order mineralisation flux OOC in layer S2	gC/(m ² d)	0.000
RcOOCs2	first-order mineralisation rate OOC in layer S2	1/d	0.030
dMinOOCs2	mineralisation flux OOCs2	gC/m ³ /d	0.000
ZMinOONS1	zeroth-order mineralisation flux OON in layer S1	gN/(m ² d)	0.000
RcOONS1	first-order mineralisation rate OON in layer S1	1/d	0.030
TcBMOON	temperature coeff. mineralisation OON in sediment	-	1.090
ZMinOONS2	zeroth-order mineralisation flux OON in layer S2	gN/(m ² d)	0.000
RcOONS2	first-order mineralisation rate OON in layer S2	1/d	0.030
ZMinOOPS1	zeroth-order mineralisation flux OOP in layer S1	gP/(m ² d)	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
RcOOPS1	first-order mineralisation rate OOP in layer S1	1/d	0.030
TcBMOOP	temperature coeff. mineralisation OOP in sediment	-	1.090
ZMinOOPS2	zeroth-order mineralisation flux OOP in layer S2	gP/(m ² d)	0.000
RcOOPS2	first-order mineralisation rate OOP in layer S2	1/d	0.030
ZMinOOSS1	zeroth-order mineralisation flux OOSi in layer S1	gSi/(m ² d)	0.000
RcOOSiS1	first-order mineralisation rate OOSi in layer S1	1/d	0.015
TcBMOOSi	temperature coeff. mineralisation OOSi in sediment	-	1.090
ZMinOOSS2	zeroth-order mineralisation flux OOSi in layer S2	gSi/(m ² d)	0.000
RcOOSiS2	first-order mineralisation rate OOSi in layer S2	1/d	0.015
ZMinAAPS1	zeroth-order desorption flux AAP in layer S1	gP/(m ² d)	0.000
RcAAPS1	first-order AAP desorption rate in layer S1	1/d	0.010
TcAAPS1	temperature coefficient desorption in sediment	-	1.000
CTMinAAPS	critical temperature for desorption	°C	-10.000
ZMinAAPS2	zeroth-order desorption flux AAP in layer S2	gP/(m ² d)	0.000
RcAAPS2	first-order AAP desorption rate in layer S2	1/d	0.010
TcAAPS2	temperature coefficient desorption in sediment	-	1.000
SwOXYDem	switch oxygen consumption 0=BOD, 1=COD, 2=both	-	0.000
RcBOD	decay rate BOD first pool at 20 °C	1/d	0.300
RcBOD_2	decay rate BOD second pool at 20 °C	1/d	0.150
RcCOD	decay rate COD at 20 °C	1/d	0.050
RcBODN	first-order mineralisation rate BODN	1/d	0.300
TcBOD	temperature coefficient decay BOD	-	1.040
TcCOD	temperature coefficient decay COD	-	1.020
TcBODN	temperature coefficient decay BODN	-	1.080
COXBOD	critical oxygen concentration for BOD decay	gO ₂ /m ³	1.000
OOXBOD	optimum oxygen concentration for BOD decay	gO ₂ /m ³	5.000
CFLBOD	oxygen function level for oxygen below COXBOD	-	0.300
CurvBOD	curvature of DO function for mineralisation BOD	-	0.000
LAgeFun	lower value of age function BOD decay	-	1.000
UAgeFun	upper value of age function BOD decay	-	1.000
LAgeIndx	lower value of age index BOD decay	-	2.000
UAgeIndx	upper value of age index BOD decay	-	3.000
BOD5:uPHYT	BOD5:BODu ratio in phytoplankton	-	0.600
AlgFrBOD	fraction algae contributing to BOD-inf	-	0.500
OXCCF	O ₂ :C ratio in mineralisation	gO ₂ /gC	2.670
BOD5:infPO	BOD5:BODu ratio in POC	-	0.600
POCFrBOD	fraction of POC contributing to BOD-inf	-	1.000
EffCOD_Cr	efficiency of Cr method for COD	-	0.900
EffCOD_Mn	efficiency of Mn method for COD	-	0.500
AMCCF	amount oxygen used for nitrogen in miner.	gO ₂ /gC	0.550
RCBOD_3	decay rate BOD third pool at 20 °C	1/d	0.100
KMOX	half sat const for limit. of BOD oxydation	gO ₂ /m ³	1.000
kT_dec	temperature coefficient for decomposition	-	1.047
a_dNpr	target N:C ratio in refractory detritus	gN/gC	0.050
a_dPpr	target P:C ratio in refractory detritus	gP/gC	0.005
a_dSpr	target S:C ratio in refractory detritus	gS/gC	0.005
al_dNf	lower limit N:C ratio in fast decomp. detr	gN/gC	0.100
al_dPf	lower limit P:C ratio in fast decomp. detr	gP/gC	0.010
au_dNf	upper limit N:C ratio in fast decomp. detr	gN/gC	0.150
au_dPf	upper limit P:C ratio in fast decomp. detr	gP/gC	0.015
b_ni	attenuation factor decomp. in denitrifying zone	-	1.000
b_su	attenuation factor decomp. in sulphate red. zone	-	1.000
b_poc1poc2	fraction POC1 converted to POC2	-	0.000
f_minPOC1	mineralization flux POC1	gC/m ³ /d	0.000
al_dNm	lower limit N:C ratio in med. decomp. detr	gN/gC	0.060
al_dPm	lower limit P:C ratio in med. decomp. detr	gP/gC	0.006
au_dNm	upper limit N:C ratio in med. decomp. detr	gN/gC	0.120
au_dPm	upper limit P:C ratio in med. decomp. detr	gP/gC	0.012
b_poc2poc3	fraction POC2 converted to POC3	-	0.000
b_poc2doc	fraction POC2 converted to DOC	-	0.000
f_minPOC2	mineralization flux POC2	gC/m ³ /d	0.000
al_dNs	lower limit N:C ratio in slow decomp. detr	gN/gC	0.060
al_dPs	lower limit P:C ratio in slow decomp. detr	gP/gC	0.006
au_dNs	upper limit N:C ratio in slow decomp. detr	gN/gC	0.120
au_dPs	upper limit P:C ratio in slow decomp. detr	gP/gC	0.012
b_poc3poc4	fraction POC3 converted to POC4	-	0.000
b_poc3doc	fraction POC3 converted to DOC	-	0.000
f_minPOC3	mineralization flux POC3	gC/m ³ /d	0.000
f_minPOC4	mineralization flux POC4	gC/m ³ /d	0.000
al_dNPOC5	lower limit N:C ratio in POC5	gN/gC	0.060

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Process	Description	Unit	Default
al_dPPOC5	lower limit P:C ratio in POC5	gP/gC	0.006
au_dNPOC5	upper limit N:C ratio in POC5	gN/gC	0.100
au_dPPOC5	upper limit P:C ratio in POC5	gP/gC	0.010
b_poc5poc4	fraction POC5 converted to POC4	-	0.400
b_poc5doc	fraction POC5 converted to DOC	-	0.040
f_minPOC5	mineralization flux POC5 submerged	gC/m ³ /d	0.000
f_minDOC	mineralization flux DOC	gC/m ³ /d	0.000
EqVivDisP	equilibrium concentration PO4 with vivianite	gP/m ³	0.050
RCprecP20	pseudo 1st order rate P-precipitation 20 °C	1/d	0.000
TCprecipP	temperature dependency constant precipitation	-	1.000
RCdissP20	2nd order dissolution/oxidation rate VIVP	m ³ /g/d	0.000
TCdissolP	temperature dependency constant dissolution	-	1.000
Cc_oxVivP	critical oxygen conc for vivianite oxid.	gO2/m ³	0.000
Ceq_disSi	Saturation concentration of Si with opal	gSi/m ³	10.000
RCdisSi20	2nd order dissolution rate SiO2 at 20 °C	m ³ /gSi/d	0.000
TCdisSi	temperature dependency dissolution Si	-	1.000
fSODaut	autonomous SOD no effect SOD stat.var	gO2/(m ² d)	0.000
fSOD	zeroth-order sediment oxygen demand flux	gO2/(m ² d)	0.000
RcSOD	decay rate SOD at 20 °C	1/d	0.100
TcSOD	temperature coefficient decay SOD	-	1.040
SwCH4bub	switch 1=include CH4 bubbles, 0=not	-	0.000
HSED	Total sediment thickness	m	0.100
KAPC	constant	?	1.600
thetak	temperature constant	?	1.079
edwcd	diffusion coefficient	?	0.000
diamb	Diameter of methane bubbles	cm	1.000
kappad	transfer coefficient	m/dag	0.003
COXSOD	critical oxygen concentration for SOD decay	gO2/m ³	0.000
OOXSOD	optimum oxygen concentration for SOD decay	gO2/m ³	2.000
TcGroGreen	temperature coeff. for growth processes Greens	-	1.040
TcDecGreen	temp. coeff. for respiration and mortality Greens	-	1.070
TFGroGreen	temperature function growth Greens <0-1>	-	1.000
TFMrtGreen	temperature function mortality Greens <0-1>	-	1.000
TcGroDiat	temperature coeff. for growth processes Diatoms	-	1.040
TcDecDiat	temp. coeff. for respiration and mortality Diatoms	-	1.070
TFGroDiat	temperature function growth Diatoms <0-1>	-	1.000
TFMrtDiat	temperature function mortality Diatoms <0-1>	-	1.000
OptDLGreen	daylength for growth saturation Greens	d	0.580
LimDLGreen	daylength limitation function for Greens <0-1>	-	1.000
OptDLDiat	daylength for growth saturation Diatoms	d	0.500
LimDLdiat	daylength limitation function for Diatoms <0-1>	-	1.000
OptDLDiaS1	daylength for growth saturation Diatoms	d	0.500
LimDLdiaS1	daylength limit. funct. for Diatoms layer S1 <0-1>	-	1.000
PrfNH4gree	ammonium preferency over nitrate Greens	-	1.000
KMDINgreen	half-saturation value N Greens	gN/m ³	0.005
KMPgreen	half-saturation value P Greens	gP/m ³	0.001
LimNutGree	nutrient limitation function Greens <0-1>	-	1.000
PrfNH4diat	ammonium preferency over nitrate Diatoms	-	1.000
KMDINdiat	half-saturation value N Diatoms	gN/m ³	0.005
KMPdiat	half-saturation value P Diatoms	gP/m ³	0.001
KMSidiat	half-saturation value Si Diatoms	gSi/m ³	0.027
LimNutDiat	nutrient limitation function Diatoms <0-1>	-	1.000
RadSatGree	total radiation growth saturation greens	W/m ²	30.000
LimRadGree	radiation limitation function Greens <0-1>	-	1.000
RadSatDiat	total radiation growth saturation Diatoms	W/m ²	25.000
LimRadDiat	radiation limitation function Diatoms <0-1>	-	1.000
RadSatDiS1	total radiation growth saturation Diatoms layer S1	W/m ²	2.500
LimRadDiS1	radiation limit. funct. Diatoms in layer S1 <0-1>	-	1.000
PPMaxGreen	maximum production rate Greens	1/d	1.800
MRespGreen	maintenance respiration Greens st.temp	-	0.045
GRespGreen	growth respiration factor Greens	-	0.150
Mort0Green	mortality rate constant Greens	1/d	0.350
MortSGreen	mortality rate Greens at high salinity	1/d	0.350
MinGreen	Minimum level Greens in mortality	gC/m ³	0.000
PPMaxDiat	maximum production rate Diatoms	1/d	2.300
MRespDiat	maintenance respiration Diatoms st.temp	-	0.036
GRespDiat	growth respiration factor Diatoms	-	0.110
Mort0Diat	mortality rate constant Diatoms	1/d	0.250
MortSDiat	mortality rate Diatoms at high salinity	1/d	0.250
MinDiat	Minimum level Diatoms in mortality	gC/m ³	0.000

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Process	Description	Unit	Default
RcGroDiat	primary production rate minus respirationDiatoms	1/d	0.000
RcRespDiat	respiration rate Diatoms	1/d	0.000
fPPDiat	net primary production of Diatoms	gC/(m ² d)	0.000
fMrtDiat	mortality flux Diatoms	gC/(m ² d)	0.000
MRespDiaS1	maintenance respiration Diatoms st.temp	-	0.036
GRespDiaS1	growth respiration factor Diatoms in layer S1	-	0.110
MrtSedDiat	mortality rate Diatoms in the sediment	1/d	3.000
KMDINdiaS1	half-saturation value N Diatoms in layer S1	gN/m ³	0.001
KMPdiatS1	half-saturation value P Diatoms in layer S1	gP/m ³	0.001
KMSidiatS1	half-saturation value Si Diatoms in layer S1	gSi/m ³	0.027
FrMinS1Bac	fraction miner.detritus N to bacteria in layer S1	-	0.270
NH4Crit	critical concentration for uptake of NH4	gN/m ³	0.010
NH4KRIT	critical NH4 concentration	gN/m ³	0.010
FrAutGreen	fraction autolysis Greens	-	0.300
FrDetGreen	fraction to detritus by mortality Greens	-	0.700
FrAutDiat	fraction autolysis Diatoms	-	0.300
FrDetDiat	fraction detritus by mortality Diatoms	-	0.700
fMrtGreeS1	mortality flux Greens in layer S1	gC/(m ² d)	0.000
FrAutDiatS	fraction autolysis Diatoms in the sediment	-	0.000
FrDetDiatS	fraction to detritus by mortality Diatoms sediment	-	1.000
KsOxCon	half saturation constant for DO limitation	g/m ³	2.000
KsFeRed	half saturation constant for Fe limitation	gFe/m ³	2.000
KsSuRed	half saturation constant for SO4 limitation	gS/m ³	2.000
KsOxDenInh	half saturation constant for oxygen inhib.	g/m ³	0.200
KsNiIRdInh	half sat. const. NO3 inhib. iron reduction	gN/m ³	0.200
KsNiSRdInh	half sat. const. NO3 inhib. SO4 reduction	gN/m ³	0.200
KsSuMetInh	half saturation constant for SO4 inhibition	gS/m ³	1.000
TcOxCon	temperature coeff. for oxygen consumption	-	1.070
TcIRed	temperature coeff. for iron reduction	-	1.120
TcSRed	temperature coeff. for sulphate reduction	-	1.120
TcMet	temperature coeff. for methanogenesis	-	1.120
RedFacDen	reduction factor for denitrif. at low temp.	-	1.000
RedFacIRed	reduction factor for iron red. at low temp.	-	1.000
RedFacSRed	reduction factor for sulph. red. at low temp.	-	1.000
RedFacMet	reduction factor for methanog. at low temp.	-	1.000
CoxDenInh	crit. diss. ox. conc. for inhib. denitrif.	g/m ³	1.000
CoxIRedInh	crit. diss. ox. conc. for inhib. iron red.	g/m ³	0.200
CoxSRedInh	crit. diss. ox. conc. for inhib. sulph. red.	g/m ³	0.200
CoxMetInh	crit. diss. ox. conc. for inhib. methanog.	g/m ³	0.020
CniMetInh	crit. nitrate conc. for inhib. methanog.	gN/m ³	0.100
CTBactAc	critical temp. for specific bacterial activity	°C	3.000
FrMetGeCH4	fraction of methanogenesis towards CH4	-	0.500
fScEbul	scaling factor for methane ebullition	-	1.000
AtmPrCH4	atmospheric methane pressure	atm	0.000
SWVolCH4	switch for methane volat. formulation <15>	-	15.000
KLVolCH4	water transfer coefficient for methane	m/d	1.000
TCVolCH4	volatilisation temperature coefficient	-	1.016
KLRMaxCH4	maximum KLREAR CH4 for temperature correction	m/d	1000.000
KLRMinCH4	minimum reparation transfer coefficient CH4	m/d	0.200
coefACH4	gas transfer CH4 coefficient transmission	m/d	1.660
coefB1CH4	gas transfer CH4 coefficient wind scale 1	no unit	0.260
coefB2CH4	gas transfer CH4 coefficient wind scale 2	no unit	1.000
coefC1CH4	gas transfer CH4 coefficient rain scale 1	no unit	0.660
coefC2CH4	gas transfer CH4 coefficient rain scale 2	no unit	1.000
coefD1CH4	fresh water coefficient1 for Schmidt nr CH4	no unit	1800.060
coefD2CH4	fresh water coefficient2 for Schmidt nr CH4	no unit	120.100
coefD3CH4	fresh water coefficient3 for Schmidt nr CH4	no unit	3.782
coefD4CH4	fresh water coefficient4 for Schmidt nr CH4	no unit	0.048
IKstH2S	log acidity constant for H2S l.mol-1	-	-7.100
TcKstH2S	temperature coefficient for KstH2S	-	1.000
IKstHS	log acidity constant for HS- l.mol-1	-	-14.000
TcKstHS	temperature coefficient for KstHS	-	1.000
DisHSWK	HS- in water column	(mol l)	0.000
DisSWK	S- in water column	(mol l)	0.000
FrS2dis	fraction dissolved free sulphide	-	0.000
SUDS1	total dissolved sulphide concentration	gS/m ³	0.000
IKstH2Ss	log acidity constant for H2S l.mol-1	-	-7.100
TcKstH2Ss	temperature coefficient for KstH2S	-	1.000
IKstHSs	log acidity constant for HS- l.mol-1	-	-14.000
TcKstHSs	temperature coefficient for KstHS	-	1.000

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Process	Description	Unit	Default
pHS1	pH	-	7.000
SUDS2	total dissolved sulphide concentration	gS/m ³	0.000
pHS2	pH	-	7.000
Rc0Sox	zero-order oxidation rate	gS/m ³ /d	0.000
RcSox20	second order oxidation rate at 20 °C	m ³ .d/g	0.100
TcSox	temperature coefficient for oxidation	-	1.070
CoxSUD	critical DO concentration for oxidation	g/m ³	0.000
DisSEqFeS	saturation free sulphide concentration	(mol l)	0.000
RcDisS20	first order dissolution rate at 20 °C	1/d	1000000.000
TcDisS	temperature coeff. for dissolution sulphide	-	1.070
RcPrcS20	first order precipitation rate at 20 °C	1/d	1000000.000
TcPrcS	temperature coeff. for precipitation sulphide	-	1.070
Rc0MetOx	zero-order oxid. rate with DO at low temp	gC/m ³ /d	0.000
RcMetOx20	MM- oxidation rate with DO at 20 °C	gN/m ³ /d	0.100
TcMetOx	temperature coefficient for oxid. with DO	-	1.070
KsMet	half saturation constant for methane	gC/m ³	0.500
KsOxMet	half saturation constant for DO	g/m ³	1.000
CoxMet	critical DO concentration for oxidation	g/m ³	0.500
Rc0MetSu	zero-order oxid. rate with SU at low temp	gC/m ³ /d	0.000
RcMetSu20	MM- oxidation rate with sulphate at 20 °C	gS/m ³ /d	0.100
TcMetSu	temperature coefficient for oxid. with sulphate	-	1.070
KsSuMet	half saturation constant for SO4 inhibition	gS/m ³	1.000
CsuMet	critical sulphate concentration for oxid.	gS/m ³	0.000
CTMetOx	critical temperature for methane oxidation	°C	3.000
RadMetInh	irradiation for full inhibition	W/m ²	300.000
KSRadSh	shape factor for light inhibition function	-	25.000
IKstFe3OH	log stability constant for Fe3OH2+ l.mol-1	-	-3.050
IKstFe3OH2	log stability constant for Fe3OH2+ l.mol-1	-	-6.310
TcKFe3OH	temperature coefficient for KstFe3OH	-	1.000
TcKFe3OH2	temperature coefficient for KstFe3OH2	-	1.000
IKstFe2OH	log stability constant for Fe2OH+ l.mol-1	-	-9.500
IKstFe2OH2	log stability constant for Fe2OH2 l.mol-1	-	-17.000
TcKFe2OH	temperature coefficient for KstFe2OH	-	1.000
TcKFe2OH2	temperature coefficient for KstFe2OH2	-	1.000
FrFe3dis	fraction dissolved free ironIII	-	0.000
FrFe2dis	fraction dissolved free ironII	-	0.000
Rcl1oxox20	rate of Fe2+ oxid. with oxygen at 20 °C	m ³ /gO2/d	0.000
Rcl2oxox20	rate of FeOH+ oxid. with oxygen at 20 °C	m ³ /gO2/d	0.000
Rcl3oxox20	rate of FeOH2 oxid. with oxygen T=20	m ³ /gO2/d	0.000
Rcl1oxni20	rate of Fe2+ oxidation with nitrate T=20	m ³ /gN/d	0.000
Rcl2oxni20	rate of FeOH+ oxidation with nitrate T=20	m ³ /gN/d	0.000
Rcl3oxni20	rate of FeOH2 oxid. with nitrate T=20	m ³ /gN/d	0.000
Tclox	temperature coefficient for iron oxidation	-	1.000
RcFeSox20	specific rate of iron sulphide oxidation	m ³ /gO2/d	0.000
RcFeS2ox20	specific rate of pyrite oxidation	m ³ /gO2/d	0.000
TcFeSox	temperature coeff. for iron sulphide oxidation	-	0.000
RcFeaH2S20	rate of amorphous iron red. with H2S	m ³ /gS/d	0.000
RcFecH2S20	rate of crystalline iron red. with H2S	m ³ /gS/d	0.000
RcFeaFeS20	rate of amorphous iron red. with FeS	m ³ /gFe/d	0.000
RcFecFeS20	rate of crystalline iron red. with FeS	m ³ /gFe/d	0.000
TcFeRed	temperature coeff. for abiotic iron reduction	-	0.000
IKspFeOH3	log solubility product for FeOH3	-	0.000
RcAgFe320	specific ironIII aging rate at 20 °C	1/d	0.000
RcDisFe320	specific ironIII dissolution rate at 20 °C	1/d	0.000
RcPrcFe320	specific ironIII precipitation rate	gFe/m ³ /d	0.000
TcAgFe3	temperature coeff. for ironIII aging	-	0.000
TcDisFe3	temperature coeff. for ironIII dissolution	-	0.000
TcPrcFe3	temperature coeff. for ironIII precipitation	-	0.000
IKspFeS	log solubility product for FeS	-	0.000
IKspFeCO3	log solubility product for FeCO3	-	0.000
RcPyrite20	specific pyrite formation rate at 20 °C	gS/m ³ /d	0.000
RcDisFeS20	ironII sulphide dissolution rate	1/d	0.000
RcPrcFeS20	ironII sulphide precipitation rate	gFe/m ³ /d	0.000
RcDisFeC20	ironII carbonate dissolution rate	1/d	0.000
RcPrcFeC20	ironII carbonate precipitation rate	gFe/m ³ /d	0.000
TcPyrite	temperature coeff. for pyrite formation	-	0.000
TcDisFeS	temperature coeff. for ironII sulphide diss.	-	0.000
TcPrcFeS	temperature coeff. for ironII sulphide prec.	-	0.000
TcDisFeCO3	temperature coeff. for ironII carbonate diss.	-	0.000

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Process	Description	Unit	Default
TcPrCFeCO3	temperature coeff. for ironII carbonate prec.	-	0.000
CrSS	crit. susp. solid concentration for flocculation	gDM/m ³	100.000
nIM1	coefficient in flocculation function IM1	-	0.000
TcSED	temperature coefficient for sedimentation	-	1.000
SMax	salinity at which salinity function is maximal	g/kg	5.000
EnhSedIM1	salinity enhanced settling factor for IM1	-	1.000
VSedIM1	sedimentation velocity IM1	m/d	0.100
nIM2	coefficient in flocculation function IM2	-	0.000
EnhSedIM2	salinity enhanced settling factor for IM2	-	1.000
VSedIM2	sedimentation velocity IM2	m/d	0.100
nIM3	coefficient in flocculation function IM3	-	0.000
EnhSedIM3	salinity enhanced settling factor for IM3	-	1.000
VSedIM3	sedimentation velocity IM3	m/d	0.100
nDiat	coefficient in flocculation function Diatoms	-	0.000
EnhSedDiat	salinity enhanced settling factor for Diatoms	-	1.000
VSedDiat	sedimentation velocity Diatoms	m/d	0.100
nGreen	coefficient in flocculation function Greens	-	0.000
EnhSedGree	salinity enhanced settling factor for Greens	-	1.000
VSedGreen	sedimentation velocity Greens	m/d	0.000
nAlg	coefficient in flocculation function	-	0.000
EnhSdAlg	salinity enhanced settling factor for algae	-	1.000
nAlg01	coefficient in flocculation function algae type 01	-	0.000
EnhSdAlg01	salinity enhanced settling factor algae type 01	-	1.000
VSedAlg01	sedimentation velocity algae type 01	m/d	0.000
nAlg02	coefficient in flocculation function algae type 02	-	0.000
EnhSdAlg02	salinity enhanced settling factor algae type 02	-	1.000
VSedAlg02	sedimentation velocity algae type 02	m/d	0.000
nAlg03	coefficient in flocculation function algae type 03	-	0.000
EnhSdAlg03	salinity enhanced settling factor algae type 03	-	1.000
VSedAlg03	sedimentation velocity algae type 03	m/d	0.000
nAlg04	coefficient in flocculation function algae type 04	-	0.000
EnhSdAlg04	salinity enhanced settling factor algae type 04	-	1.000
VSedAlg04	sedimentation velocity algae type 04	m/d	0.000
nAlg05	coefficient in flocculation function algae type 05	-	0.000
EnhSdAlg05	salinity enhanced settling factor algae type 05	-	1.000
VSedAlg05	sedimentation velocity algae type 05	m/d	0.000
nAlg06	coefficient in flocculation function algae type 06	-	0.000
EnhSdAlg06	salinity enhanced settling factor algae type 06	-	1.000
VSedAlg06	sedimentation velocity algae type 06	m/d	0.000
nAlg07	coefficient in flocculation function algae type 07	-	0.000
EnhSdAlg07	salinity enhanced settling factor algae type 07	-	1.000
VSedAlg07	sedimentation velocity algae type 07	m/d	0.000
nAlg08	coefficient in flocculation function algae type 08	-	0.000
EnhSdAlg08	salinity enhanced settling factor algae type 08	-	1.000
VSedAlg08	sedimentation velocity algae type 08	m/d	0.000
nAlg09	coefficient in flocculation function algae type 09	-	0.000
EnhSdAlg09	salinity enhanced settling factor algae type 09	-	1.000
VSedAlg09	sedimentation velocity algae type 09	m/d	0.000
nAlg10	coefficient in flocculation function algae type 10	-	0.000
EnhSdAlg10	salinity enhanced settling factor algae type 10	-	1.000
VSedAlg10	sedimentation velocity algae type 10	m/d	0.000
nAlg11	coefficient in flocculation function algae type 11	-	0.000
EnhSdAlg11	salinity enhanced settling factor algae type 11	-	1.000
VSedAlg11	sedimentation velocity algae type 11	m/d	0.000
nAlg12	coefficient in flocculation function algae type 12	-	0.000
EnhSdAlg12	salinity enhanced settling factor algae type 12	-	1.000
VSedAlg12	sedimentation velocity algae type 12	m/d	0.000
nAlg13	coefficient in flocculation function algae type 13	-	0.000
EnhSdAlg13	salinity enhanced settling factor algae type 13	-	1.000
VSedAlg13	sedimentation velocity algae type 13	m/d	0.000
nAlg14	coefficient in flocculation function algae type 14	-	0.000
EnhSdAlg14	salinity enhanced settling factor algae type 14	-	1.000
VSedAlg14	sedimentation velocity algae type 14	m/d	0.000
nAlg15	coefficient in flocculation function algae type 15	-	0.000
EnhSdAlg15	salinity enhanced settling factor algae type 15	-	1.000
VSedAlg15	sedimentation velocity algae type 15	m/d	0.000
nAlg16	coefficient in flocculation function algae type 16	-	0.000
EnhSdAlg16	salinity enhanced settling factor algae type 16	-	1.000
VSedAlg16	sedimentation velocity algae type 16	m/d	0.000
nAlg17	coefficient in flocculation function algae type 17	-	0.000
EnhSdAlg17	salinity enhanced settling factor algae type 17	-	1.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
VSedAlg17	sedimentation velocity algae type 17	m/d	0.000
nAlg18	coefficient in flocculation function algae type	-	0.000
EnhSdAlg18	salinity enhanced settling factor algae type 18	-	1.000
VSedAlg18	sedimentation velocity algae type 18	m/d	0.000
nAlg19	coefficient in flocculation function algae type	-	0.000
EnhSdAlg19	salinity enhanced settling factor algae type 19	-	1.000
VSedAlg19	sedimentation velocity algae type 19	m/d	0.000
nAlg20	coefficient in flocculation function algae type	-	0.000
EnhSdAlg20	salinity enhanced settling factor algae type 20	-	1.000
VSedAlg20	sedimentation velocity algae type 20	m/d	0.000
nAlg21	coefficient in flocculation function algae type	-	0.000
EnhSdAlg21	salinity enhanced settling factor algae type 21	-	1.000
VSedAlg21	sedimentation velocity algae type 21	m/d	0.000
nAlg22	coefficient in flocculation function algae type	-	0.000
EnhSdAlg22	salinity enhanced settling factor algae type 22	-	1.000
VSedAlg22	sedimentation velocity algae type 22	m/d	0.000
nAlg23	coefficient in flocculation function algae type	-	0.000
EnhSdAlg23	salinity enhanced settling factor algae type 23	-	1.000
VSedAlg23	sedimentation velocity algae type 23	m/d	0.000
nAlg24	coefficient in flocculation function algae type	-	0.000
EnhSdAlg24	salinity enhanced settling factor algae type 24	-	1.000
VSedAlg24	sedimentation velocity algae type 24	m/d	0.000
nAlg25	coefficient in flocculation function algae type	-	0.000
EnhSdAlg25	salinity enhanced settling factor algae type 25	-	1.000
VSedAlg25	sedimentation velocity algae type 25	m/d	0.000
nAlg26	coefficient in flocculation function algae type	-	0.000
EnhSdAlg26	salinity enhanced settling factor algae type 26	-	1.000
VSedAlg26	sedimentation velocity algae type 26	m/d	0.000
nAlg27	coefficient in flocculation function algae type	-	0.000
EnhSdAlg27	salinity enhanced settling factor algae type 27	-	1.000
VSedAlg27	sedimentation velocity algae type 27	m/d	0.000
nAlg28	coefficient in flocculation function algae type	-	0.000
EnhSdAlg28	salinity enhanced settling factor algae type 28	-	1.000
VSedAlg28	sedimentation velocity algae type 28	m/d	0.000
nAlg29	coefficient in flocculation function algae type	-	0.000
EnhSdAlg29	salinity enhanced settling factor algae type 29	-	1.000
VSedAlg29	sedimentation velocity algae type 29	m/d	0.000
nAlg30	coefficient in flocculation function algae type	-	0.000
EnhSdAlg30	salinity enhanced settling factor algae type 30	-	1.000
VSedAlg30	sedimentation velocity algae type 30	m/d	0.000
ZSedIM1	zeroth-order sedimentation flux IM1	g/(m ² d)	0.000
TaucSIM1	critical shear stress for sedimentation IM1	N/m ²	0.100
MinDepth	minimum waterdepth for sedimentation/resuspension	m	0.100
fSedIM1	sedimentation flux IM1 towards S1	g/(m ² d)	0.000
ZSedIM2	zeroth-order sedimentation flux IM2	g/(m ² d)	0.000
TaucSIM2	critical shear stress for sedimentation IM2	N/m ²	0.100
fSedIM2	sedimentation flux IM2 towards S1	g/(m ² d)	0.000
ZSedIM3	zeroth-order sedimentation flux IM3	g/(m ² d)	0.000
TaucSIM3	critical shear stress for sedimentation IM3	N/m ²	0.100
fSedIM3	sedimentation flux IM3 towards S1	g/(m ² d)	0.000
ZSedDiat	zeroth-order sedimentation flux Diatoms	gC/(m ² d)	0.000
TaucSDiat	critical shear stress for sedimentation Diatoms	N/m ²	0.100
fSedDiat	sedimentation flux Diatoms	gC/(m ² d)	0.000
ZSedGreen	zeroth-order sedimentation flux Greens	gC/(m ² d)	0.000
TaucSGreen	critical shear stress for sedimentation Greens	N/m ²	0.100
fSedGreen	sedimentation flux Greens	gC/(m ² d)	0.000
ZSedAlg	zeroth-order sedimentation flux algae	gC/(m ² d)	0.000
TaucS	critical shear stress for sedimentation algae	N/m ²	0.100
fSedAlg02	sedimentation flux algae type 02	gC/(m ² d)	0.000
fSedAlg03	sedimentation flux algae type 03	gC/(m ² d)	0.000
fSedAlg04	sedimentation flux algae type 04	gC/(m ² d)	0.000
fSedAlg05	sedimentation flux algae type 05	gC/(m ² d)	0.000
fSedAlg06	sedimentation flux algae type 06	gC/(m ² d)	0.000
fSedAlg07	sedimentation flux algae type 07	gC/(m ² d)	0.000
fSedAlg08	sedimentation flux algae type 08	gC/(m ² d)	0.000
fSedAlg09	sedimentation flux algae type 09	gC/(m ² d)	0.000
fSedAlg10	sedimentation flux algae type 10	gC/(m ² d)	0.000
fSedAlg11	sedimentation flux algae type 11	gC/(m ² d)	0.000
fSedAlg12	sedimentation flux algae type 12	gC/(m ² d)	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
fSedAlg13	sedimentation flux algae type 13	gC/(m ² d)	0.000
fSedAlg14	sedimentation flux algae type 14	gC/(m ² d)	0.000
fSedAlg15	sedimentation flux algae type 15	gC/(m ² d)	0.000
fSedAlg16	sedimentation flux algae type 16	gC/(m ² d)	0.000
fSedAlg17	sedimentation flux algae type 17	gC/(m ² d)	0.000
fSedAlg18	sedimentation flux algae type 18	gC/(m ² d)	0.000
fSedAlg19	sedimentation flux algae type 19	gC/(m ² d)	0.000
fSedAlg20	sedimentation flux algae type 20	gC/(m ² d)	0.000
fSedAlg21	sedimentation flux algae type 21	gC/(m ² d)	0.000
fSedAlg22	sedimentation flux algae type 22	gC/(m ² d)	0.000
fSedAlg23	sedimentation flux algae type 23	gC/(m ² d)	0.000
fSedAlg24	sedimentation flux algae type 24	gC/(m ² d)	0.000
fSedAlg25	sedimentation flux algae type 25	gC/(m ² d)	0.000
fSedAlg26	sedimentation flux algae type 26	gC/(m ² d)	0.000
fSedAlg27	sedimentation flux algae type 27	gC/(m ² d)	0.000
fSedAlg28	sedimentation flux algae type 28	gC/(m ² d)	0.000
fSedAlg29	sedimentation flux algae type 29	gC/(m ² d)	0.000
fSedAlg30	sedimentation flux algae type 30	gC/(m ² d)	0.000
ZSedBOD5	zeroth-order sedimentation flux CBOD5	gO2/(m ² d)	0.000
VSedBOD5	sedimentation velocity CBOD5	m/d	0.100
TaucSBOD	critical shear stress for sedimentation BOD	N/m ²	*****
fSedBOD5	sedimentation flux CBOD5	gO2/(m ² d)	0.000
ZSedBOD5_2	zeroth-order sedimentation flux CBOD5_2	gO2/(m ² d)	0.000
VSedBOD5_2	sedimentation velocity CBOD5_2	m/d	0.100
fSedBOD5_2	sedimentation flux CBOD5_2	gO2/(m ² d)	0.000
ZSedBOD5_3	zeroth-order sedimentation flux CBOD5_3	gO2/(m ² d)	0.000
VSedBOD5_3	sedimentation velocity CBOD5_3	m/d	0.100
fSedBOD5_3	sedimentation flux CBOD5_3	gO2/(m ² d)	0.000
ZSedBODu	zeroth-order sedimentation flux CBODu	gO2/(m ² d)	0.000
VSedBODu	sedimentation velocity CBODu	m/d	0.100
fSedBODu	sedimentation flux CBODu	gO2/(m ² d)	0.000
ZSedBODu_2	zeroth-order sedimentation flux CBODu_2	gO2/(m ² d)	0.000
VSedBODu_2	sedimentation velocity CBODu_2	m/d	0.100
fSedBODu_2	sedimentation flux CBODu_2	gO2/(m ² d)	0.000
ZSedCODCr	zeroth-order sedimentation flux COD_Cr	gO2/(m ² d)	0.000
VSedCODCr	sedimentation velocity COD_Cr	m/d	0.000
fSedCODCr	sedimentation flux COD_Cr	gO2/(m ² d)	0.000
ZSedCODMn	zeroth-order sedimentation flux COD_Mn	gO2/(m ² d)	0.000
VSedCODMn	sedimentation velocity COD_Mn	m/d	0.000
fSedCODMn	sedimentation flux COD_Mn	gO2/(m ² d)	0.000
ZSedNBOD5	zeroth-order sedimentation flux NBOD5	gO2/(m ² d)	0.000
VSedNBOD5	sedimentation velocity NBOD5	m/d	0.100
fSedNBOD5	sedimentation flux NBOD5	gO2/(m ² d)	0.000
ZSedNBODu	zeroth-order sedimentation flux NBODu	gO2/(m ² d)	0.000
VSedNBODu	sedimentation velocity NBODu	m/d	0.100
fSedNBODu	sedimentation flux NBODu	gO2/(m ² d)	0.000
fSedPHYT	total sedimentation flux phytoplankton	gC/(m ² d)	0.000
fSedAlgDM	total sedimentation flux phytoplankton as DM	gDM/(m ² d)	0.000
fSedPOCnoa	total sedimentation flux POC no algae	gC/(m ² d)	0.000
ZSedMPB1	zeroth-order sedimentation flux MPB1peli	gC/(m ² d)	0.000
VSedMPB1	sedimentation velocity MPB1 algae	m/d	0.000
TaucSMPB1	critical shear stress for sedimentation MPB1	N/m ²	0.100
ZSedMPB2	zeroth-order sedimentation flux MPB2psam	gC/(m ² d)	0.000
VSedMPB2	sedimentation velocity MPB2 algae	m/d	0.000
TaucSMPB2	critical shear stress for sedimentation MPB2	N/m ²	0.100
ZSedOpal	zeroth-order sedimentation flux Opal	gSi/(m ² d)	0.000
VSedOpal	sedimentation velocity Opal	m/d	0.500
TaucSOpal	critical shear stress for sedimentation Opal	N/m ²	0.100
ZSedPOC1	zeroth-order sedimentation flux POC1	gC/(m ² d)	0.000
VSedPOC1	sedimentation velocity POC1	m/d	0.500
TaucSPOC1	critical shear stress for sedimentation POC1	N/m ²	0.100
fSedPOC1	sedimentation flux POC1	gC/(m ² d)	0.000
ZSedPOC2	zeroth-order sedimentation flux POC2	gC/(m ² d)	0.000
VSedPOC2	sedimentation velocity POC2	m/d	0.500
TaucSPOC2	critical shear stress for sedimentation POC2	N/m ²	0.100
fSedPOC2	sedimentation flux POC2	gC/(m ² d)	0.000
ZSedPOC3	zeroth-order sedimentation flux POC3	gC/(m ² d)	0.000
VSedPOC3	sedimentation velocity POC3	m/d	0.500

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Process	Description	Unit	Default
TaucSPOC3	critical shear stress for sedimentation POC3	N/m ²	0.100
fSedPOC3	sedimentation flux POC3	gC/(m ² d)	0.000
ZSedPOC4	zeroth-order sedimentation flux POC4	gC/(m ² d)	0.000
VSedPOC4	sedimentation velocity POC4	m/d	0.500
TaucSPOC4	critical shear stress for sedimentation POC4	N/m ²	0.100
fSedPOC4	sedimentation flux POC4	gC/(m ² d)	0.000
ZSedVIVP	zeroth-order sedimentation flux VIVP	gP/(m ² d)	0.000
VSedVIVP	sedimentation velocity VIVP	m/d	0.500
TaucSVIVP	critical shear stress for sedimentation VIVP	N/m ²	0.100
ZSedAPATP	zeroth-order sedimentation flux APATP	gP/(m ² d)	0.000
VSedAPATP	sedimentation velocity APATP	m/d	0.500
TaucSAPAT	critical shear stress sedimentation APATP	N/m ²	0.100
ZSedFe3pa	zeroth-order sedimentation flux Fe3pa	gFe/(m ² d)	0.000
VSedFe3pa	sedimentation velocity Fe3pa	m/d	0.500
TaucFe3pa	crit. shear stress for sedimentation Fe3pa	N/m ²	0.100
ZSedFe3pc	zeroth-order sedimentation flux Fe3pc	gFe/(m ² d)	0.000
VSedFe3pc	sedimentation velocity Fe3pc	m/d	0.500
TaucFe3pc	crit. shear stress for sedimentation Fe3pc	N/m ²	0.100
ZSedFeS	zeroth-order sedimentation flux FeS	gFe/(m ² d)	0.000
VSedFeS	sedimentation velocity FeS	m/d	0.500
TaucFeS	crit. shear stress for sedimentation FeS	N/m ²	0.100
ZSedFeS2	zeroth-order sedimentation flux FeS2	gFe/(m ² d)	0.000
VSedFeS2	sedimentation velocity FeS2	m/d	0.500
TaucFeS2	crit. shear stress for sedimentation FeS2	N/m ²	0.100
ZSedFeCO3	zeroth-order sedimentation flux FeCO3	gFe/(m ² d)	0.000
VSedFeCO3	sedimentation velocity FeCO3	m/d	0.500
TaucFeCO3	crit. shear stress for sedimentation FeCO3	N/m ²	0.100
fSedDM	total sedimentation flux dry matter	gDM/(m ² d)	0.000
ZSedAAP	zeroth-order sedimentation flux AAP	gP/(m ² d)	0.000
VSedAAP	sedimentation velocity AAP	m/d	0.500
TaucSAAP	critical shear stress for sedimentation AAP	N/m ²	0.100
ZResDM	zeroth-order resuspension flux	gDM/(m ² d)	0.000
VResDM	first order resuspension velocity DM	1/d	0.000
TaucRS1DM	critical shear stress for resuspension DM layer S1	N/m ²	0.200
TaucRS2DM	critical shear stress for resuspension DM layer S2	N/m ²	0.500
fResS1DM	total resuspension flux DM from layer S1	g/(m ² d)	0.000
fResS2DM	total resuspension flux DM from layer S2	gDM/(m ² d)	0.000
fResS1Diat	resuspension flux Diatoms from layer S1	gC/(m ² d)	0.000
fResS2Diat	resuspension flux Diatoms from layer S2	gC/(m ² d)	0.000
ZBurDMS1	zeroth-order burial flux for layer S1	gDM/(m ² d)	0.000
ZBurDMS2	zeroth-order burial flux for layer S2	gDM/(m ² d)	0.000
VBurDMS1	first order burial rate for layer S1	1/d	0.000
VBurDMS2	first order burial rate for layer S2	1/d	0.000
MaxTHS1	maximum thickness layer S1	m	0.050
MaxTHS2	maximum thickness layer S2	m	0.500
SWSediment	switch for sediment 0=fixed, 1=variable	-	0.000
FixTHS1	fixed thickness of layer S1	m	0.050
FixTHS2	fixed thickness of layer S2	m	0.500
fBurS1DM	total burial flux DM from layer S1	gDM/(m ² d)	0.000
fBurS2DM	total burial flux DM from layer S2	gDM/(m ² d)	0.000
ZDigS1DM	zeroth order digging flux to layer S1	gDM/(m ² d)	0.000
ZDigS2DM	zeroth order digging flux to layer S2	gDM/(m ² d)	0.000
fDigS1DM	total digging flux DM to layer S1	gDM/(m ² d)	0.000
fDigS2DM	total digging flux DM to layer S2	gDM/(m ² d)	0.000
SWDigS1	switch for digging S1 0=actual, 1=deeper	-	0.000
SWDigS2	switch for digging S2 0=actual, 1=deeper	-	0.000
FrIM1S3	fraction IM1 in layer S3	gDM/gDM	0.000
FrDetCS3	fraction DetC in layer S3	gC/gDM	0.000
FrOOCs3	fraction OOC in layer S3	gC/gDM	0.000
FrDiatS3	fraction Diatoms in layer S3	gC/gDM	0.000
VBurDM	first order burial rate	1/d	0.000
TauCrDM	critical shear stress for resuspension DM	N/m ²	0.200
MinTh	minimum layer thickness	m	0.000
MaxTh	maximum sediment thickness	m	0.100
Porinp	target volumetric porosity	m ³ pores/m ³ bulk	0.000
VSeep	seepage/infiltration	m/d	0.000
SwErosion	switch erosion 0=Partheniades, 1=de Boer	-	0.000
alpha	salpha for density distribution Rayleigh	?	2.000
fResCommun	communicate fResTDM between ADVTRA-CONSOL	g/(m ² d)	0.000

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Process	Description	Unit	Default
Diflen	thickness of laminar layer	m	0.002
ALK	alkalinity concentration	mol HCO ₃ ⁻ /m ³	5.000
CECIM2	Cation Exchange Capacity IM2	eq/gDM	0.000
CECIM3	Cation Exchange Capacity IM3	eq/gDM	0.000
CaRFKpCD	coefficient a for reprofuction Cd	various	-7.680
CbRFKpCD	coefficient b for reprofuction Cd	various	1.894
CcRFKpCD	coefficient c for reprofuction Cd	various	-0.060
CdRFKpCD	coefficient d for reprofuction Cd	various	-0.058
CgRFKpCD	coefficient g for reprofuction Cd	various	0.000
ClRFKpCD	coefficient l for reprofuction Cd	various	-0.715
CmRFKpCD	coefficient m for reprofuction Cd	various	0.000
CnRFKpCD	coefficient n for reprofuction Cd	various	0.000
CoRFKpCD	coefficient o for reprofuction Cd	various	0.000
SWRepro	reprofuction option 1=Rhine, 2=NorthSea	-	1.000
KdCdIM1	partition coefficient Cd-IM1	m ³ /kgDM	130.000
KdCdIM2	partition coefficient Cd-IM2	m ³ /kgDM	130.000
KdCdIM3	partition coefficient Cd-IM3	m ³ /kgDM	130.000
CaRFKpCu	coefficient a for reprofuction Cu	various	-10.351
CbRFKpCu	coefficient b for reprofuction Cu	various	2.826
CcRFKpCu	coefficient c for reprofuction Cu	various	-0.159
CdRFKpCu	coefficient d for reprofuction Cu	various	0.994
CgRFKpCu	coefficient g for reprofuction Cu	various	-0.138
ClRFKpCu	coefficient l for reprofuction Cu	various	-0.101
CmRFKpCu	coefficient m for reprofuction Cu	various	-0.209
CnRFKpCu	coefficient n for reprofuction Cu	various	-0.025
CoRFKpCu	coefficient o for reprofuction Cu	various	0.000
KdCuIM1	partition coefficient Cu-IM1	m ³ /kgDM	50.000
KdCuIM2	partition coefficient Cu-IM2	m ³ /kgDM	50.000
KdCuIM3	partition coefficient Cu-IM3	m ³ /kgDM	50.000
CaRFKpPb	coefficient a for reprofuction Pb	various	-2.264
CbRFKpPb	coefficient b for reprofuction Pb	various	1.270
CcRFKpPb	coefficient c for reprofuction Pb	various	-0.071
CdRFKpPb	coefficient d for reprofuction Pb	various	0.000
CgRFKpPb	coefficient g for reprofuction Pb	various	0.000
ClRFKpPb	coefficient l for reprofuction Pb	various	-0.141
CmRFKpPb	coefficient m for reprofuction Pb	various	-0.112
CnRFKpPb	coefficient n for reprofuction Pb	various	-0.014
CoRFKpPb	coefficient o for reprofuction Pb	various	0.000
KdPbIM1	partition coefficient Pb-IM1	m ³ /kgDM	640.000
KdPbIM2	partition coefficient Pb-IM2	m ³ /kgDM	640.000
KdPbIM3	partition coefficient Pb-IM3	m ³ /kgDM	640.000
CaRFKpZn	coefficient a for reprofuction Zn	various	-25.811
CbRFKpZn	coefficient b for reprofuction Zn	various	6.719
CcRFKpZn	coefficient c for reprofuction Zn	various	-0.394
CdRFKpZn	coefficient d for reprofuction Zn	various	1.337
CgRFKpZn	coefficient g for reprofuction Zn	various	0.000
ClRFKpZn	coefficient l for reprofuction Zn	various	-0.201
CmRFKpZn	coefficient m for reprofuction Zn	various	0.000
CnRFKpZn	coefficient n for reprofuction Zn	various	-0.059
CoRFKpZn	coefficient o for reprofuction Zn	various	-0.027
KdZnIM1	partition coefficient Zn-IM1	m ³ /kgDM	110.000
KdZnIM2	partition coefficient Zn-IM2	m ³ /kgDM	110.000
KdZnIM3	partition coefficient Zn-IM3	m ³ /kgDM	110.000
CaRFKpHg	coefficient a for reprofuction Hg	various	-33.411
CbRFKpHg	coefficient b for reprofuction Hg	various	9.632
CcRFKpHg	coefficient c for reprofuction Hg	various	-0.616
CdRFKpHg	coefficient d for reprofuction Hg	various	0.000
CgRFKpHg	coefficient g for reprofuction Hg	various	0.000
ClRFKpHg	coefficient l for reprofuction Hg	various	-0.936
CmRFKpHg	coefficient m for reprofuction Hg	various	0.000
CnRFKpHg	coefficient n for reprofuction Hg	various	0.000
CoRFKpHg	coefficient o for reprofuction Hg	various	0.000
KdHgIM1	partition coefficient Hg-IM1	m ³ /kgDM	170.000
KdHgIM2	partition coefficient Hg-IM2	m ³ /kgDM	170.000
KdHgIM3	partition coefficient Hg-IM3	m ³ /kgDM	170.000
CaRFKpNi	coefficient a for reprofuction Ni	various	-22.654
CbRFKpNi	coefficient b for reprofuction Ni	various	5.702
CcRFKpNi	coefficient c for reprofuction Ni	various	-0.329
CdRFKpNi	coefficient d for reprofuction Ni	various	0.000
CgRFKpNi	coefficient g for reprofuction Ni	various	0.000

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Process	Description	Unit	Default
CIRFKpNi	coefficient l for reprofuction Ni	various	-0.171
CmRFKpNi	coefficient m for reprofuction Ni	various	0.289
CnRFKpNi	coefficient n for reprofuction Ni	various	-0.039
CoRFKpNi	coefficient o for reprofuction Ni	various	-0.049
KdNiIM1	partition coefficient Ni-IM1	m ³ /kgDM	9.000
KdNiIM2	partition coefficient Ni-IM2	m ³ /kgDM	9.000
KdNiIM3	partition coefficient Ni-IM3	m ³ /kgDM	9.000
CaRFKpCr	coefficient a for reprofuction Cr	various	-40.123
CbRFKpCr	coefficient b for reprofuction Cr	various	11.121
CcRFKpCr	coefficient c for reprofuction Cr	various	-0.709
CdRFKpCr	coefficient d for reprofuction Cr	various	0.000
CgRFKpCr	coefficient g for reprofuction Cr	various	-0.244
CIRFKpCr	coefficient l for reprofuction Cr	various	-0.110
CmRFKpCr	coefficient m for reprofuction Cr	various	0.000
CnRFKpCr	coefficient n for reprofuction Cr	various	0.000
CoRFKpCr	coefficient o for reprofuction Cr	various	0.000
KdCrIM1	partition coefficient Cr-IM1	m ³ /kgDM	290.000
KdCrIM2	partition coefficient Cr-IM2	m ³ /kgDM	290.000
KdCrIM3	partition coefficient Cr-IM3	m ³ /kgDM	290.000
CaRFKpAs	coefficient a for reprofuction As	various	3.555
CbRFKpAs	coefficient b for reprofuction As	various	-0.164
CcRFKpAs	coefficient c for reprofuction As	various	0.010
CdRFKpAs	coefficient d for reprofuction As	various	-0.016
CgRFKpAs	coefficient g for reprofuction As	various	0.000
CIRFKpAs	coefficient l for reprofuction As	various	-0.196
CmRFKpAs	coefficient m for reprofuction As	various	0.000
CnRFKpAs	coefficient n for reprofuction As	various	0.000
CoRFKpAs	coefficient o for reprofuction As	various	0.000
KdAsIM1	partition coefficient for As and IM1	m ³ /kgDW	282.000
KdAsIM2	partition coefficient for As and IM2	m ³ /kgDW	282.000
KdAsIM3	partition coefficient for As and IM3	m ³ /kgDW	282.000
XDOCCd	efficiency DOC relative to POC for Cd	-	0.180
KdCdPOC	partition coefficient Cd-POC	m ³ /kgC	0.000
KdCdPHYT	partition coefficient Cd-PHYT	m ³ /kgC	0.000
HLTAdsCd	half-life time non-eq. adsorption Cd	d	0.000
HLTDesCd	half-life time non-eq. desorption Cd	d	0.000
SWWaterKCh	switch for oxic 1 or sulfidic 0 water	-	1.000
MolWtCd	Molweight Cd	g/mol	112.400
logKCdSs	precipitation constant Cd+S<=>CdSs	log1/(mol l) ²	27.900
logKCdSaq	complexation constant Cd+S<=>CdS0aq	log1/(mol l)	18.000
logKCdHSaq	complexation constant Cd+HS<=>CdHS+aq	log1/(mol l)	9.200
SwSedNo	switch for using module in water column	-	0.000
HMGroup1	Heavy metal group 1 General	-	1.000
FrCdIM1	fraction Cd adsorbed to IM1	-	0.000
FrCdIM2	fraction Cd adsorbed to IM2	-	0.000
FrCdIM3	fraction Cd adsorbed to IM3	-	0.000
FrCdPOC	fraction Cd adsorbed to POC	-	0.000
FrCdPHYT	fraction Cd adsorbed to phytoplankton	-	0.000
QCdIM2	quality IM2 for Cd	gCd/gDM	0.000
QCdIM3	quality IM3 for Cd	gCd/gDM	0.000
QCdPOC	quality POC for Cd	gCd/gC	0.000
QCdPHYT	quality phytoplankton for Cd	gCd/gC	0.000
XDOCCr	efficiency DOC relative to POC for Cr	-	0.180
KdCrPOC	partition coefficient Cr-POC	m ³ /kgC	0.000
KdCrPHYT	partition coefficient Cr-PHYT	m ³ /kgC	0.000
HLTAdsCr	half-life time non-eq. adsorption Cr	d	0.000
HLTDesCr	half-life time non-eq. desorption Cr	d	0.000
logKCrSol	solubility product Cr hydroxide	log(mol l) ⁴	0.000
MolWtCr	Molweight Cr	g/mol	52.000
logKCrOH1	complexation constant CrOH	log(mol l)	0.000
logKCrOH2	complexation constant CrOH2	log(mol l) ²	0.000
logKCrOH3	complexation constant CrOH3	log(mol l) ³	0.000
HMGroup2	Heavy metal group 2 Cr	-	2.000
FrCrIM1	fraction Cr adsorbed to IM1	-	0.000
FrCrIM2	fraction Cr adsorbed to IM2	-	0.000
FrCrIM3	fraction Cr adsorbed to IM3	-	0.000
FrCrPOC	fraction Cr adsorbed to POC	-	0.000
FrCrPHYT	fraction Cr adsorbed to phytoplankton	-	0.000
QCrIM2	quality IM2 for Cr	gCr/gDM	0.000
QCrIM3	quality IM3 for Cr	gCr/gDM	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
QCrPOC	quality POC for Cr	gCr/gC	0.000
QCrPHYT	quality phytoplankton for Cr	gCr/gC	0.000
XDOCCu	efficiency DOC relative to POC for Cu	-	0.180
KdCuPOC	partition coefficient Cu-POC	m ³ /kgC	0.000
KdCuPHYT	partition coefficient Cu-PHYT	m ³ /kgC	0.000
HLTAdsCu	half-life time non-eq. adsorption Cu	d	0.000
HLTDesCu	half-life time non-eq. desorption Cu	d	0.000
MolWtCu	Molweight Cu	g/mol	63.550
logKCuSs	precipitation constant Cu+S<=>CuSs	log1/(mol l) ²	27.900
logKCuSaq	complexation constant Cu+S<=>CuS0aq	log1/(mol l)	18.000
logKCuHSaq	complexation constant Cu+HS<=>CuHS+aq	log1/(mol l)	9.200
FrCuIM1	fraction Cu adsorbed to IM1	-	0.000
FrCuIM2	fraction Cu adsorbed to IM2	-	0.000
FrCuIM3	fraction Cu adsorbed to IM3	-	0.000
FrCuPOC	fraction Cu adsorbed to POC	-	0.000
FrCuPHYT	fraction Cu adsorbed to phytoplankton	-	0.000
QCuIM2	quality IM2 for Cu	gCu/gDM	0.000
QCuIM3	quality IM3 for Cu	gCu/gDM	0.000
QCuPOC	quality POC for Cu	gCu/gC	0.000
QCuPHYT	quality phytoplankton for Cu	gCu/gC	0.000
XDOCHg	efficiency DOC relative to POC for Hg	-	0.180
KdHgPOC	partition coefficient Hg-POC	m ³ /kgC	0.000
KdHgPHYT	partition coefficient Hg-PHYT	m ³ /kgC	0.000
HLTAdsHg	half-life time non-eq. adsorption Hg	d	0.000
HLTDesHg	half-life time non-eq. desorption Hg	d	0.000
MolWtHg	Molweight Hg	g/mol	200.590
logKHgSs	precipitation constant Hg+S<=>HgSs	log1/(mol l) ²	27.900
logKHgSaq	complexation constant Hg+S<=>HgS0aq	log1/(mol l)	18.000
logKHgHSaq	complexation constant Hg+HS<=>HgHS+aq	log1/(mol l)	9.200
FrHgIM1	fraction Hg adsorbed to IM1	-	0.000
FrHgIM2	fraction Hg adsorbed to IM2	-	0.000
FrHgIM3	fraction Hg adsorbed to IM3	-	0.000
FrHgPOC	fraction Hg adsorbed to POC	-	0.000
FrHgPHYT	fraction Hg adsorbed to phytoplankton	-	0.000
QHgIM2	quality IM2 for Hg	gHg/gDM	0.000
QHgIM3	quality IM3 for Hg	gHg/gDM	0.000
QHgPOC	quality POC for Hg	gHg/gC	0.000
QHgPHYT	quality phytoplankton for Hg	gHg/gC	0.000
XDOCNi	efficiency DOC relative to POC for Ni	-	0.180
KdNiPOC	partition coefficient Ni-POC	m ³ /kgC	0.000
KdNiPHYT	partition coefficient Ni-PHYT	m ³ /kgC	0.000
HLTAdsNi	half-life time non-eq. adsorption Ni	d	0.000
HLTDesNi	half-life time non-eq. desorption Ni	d	0.000
MolWtNi	Molweight Ni	g/mol	58.710
logKNiSs	precipitation constant Ni+S<=>NiSs	log1/(mol l) ²	27.900
logKNiSaq	complexation constant Ni+S<=>NiS0aq	log1/(mol l)	18.000
logKNiHSaq	complexation constant Ni+HS<=>NiHS+aq	log1/(mol l)	9.200
FrNiIM1	fraction Ni adsorbed to IM1	-	0.000
FrNiIM2	fraction Ni adsorbed to IM2	-	0.000
FrNiIM3	fraction Ni adsorbed to IM3	-	0.000
FrNiPOC	fraction Ni adsorbed to POC	-	0.000
FrNiPHYT	fraction Ni adsorbed to phytoplankton	-	0.000
QNiIM2	quality IM2 for Ni	gNi/gDM	0.000
QNiIM3	quality IM3 for Ni	gNi/gDM	0.000
QNiPOC	quality POC for Ni	gNi/gC	0.000
QNiPHYT	quality phytoplankton for Ni	gNi/gC	0.000
XDOCPb	efficiency DOC relative to POC for Pb	-	0.180
KdPbPOC	partition coefficient Pb-POC	m ³ /kgC	0.000
KdPbPHYT	partition coefficient Pb-PHYT	m ³ /kgC	0.000
HLTAdsPb	half-life time non-eq. adsorption Pb	d	0.000
HLTDesPb	half-life time non-eq. desorption Pb	d	0.000
MolWtPb	Molweight Pb	g/mol	207.190
logKPbSs	precipitation constant Pb+S<=>PbSs	log1/(mol l) ²	27.900
logKPbSaq	complexation constant Pb+S<=>PbS0aq	log1/(mol l)	18.000
logKPbHSaq	complexation constant Pb+HS<=>PbHS+aq	log1/(mol l)	9.200
FrPbIM1	fraction Pb adsorbed to IM1	-	0.000
FrPbIM2	fraction Pb adsorbed to IM2	-	0.000
FrPbIM3	fraction Pb adsorbed to IM3	-	0.000
FrPbPOC	fraction Pb adsorbed to POC	-	0.000
FrPbPHYT	fraction Pb adsorbed to phytoplankton	-	0.000
QPbIM2	quality IM2 for Pb	gPb/gDM	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
QPbIM3	quality IM3 for Pb	gPb/gDM	0.000
QPbPOC	quality POC for Pb	gPb/gC	0.000
QPbPHYT	quality phytoplankton for Pb	gPb/gC	0.000
XDOCAs	efficiency DOC relative to POC for As	-	0.180
KdAsPOC	partition coefficient As-POC	m ³ /kgC	0.000
KdAsPHYT	partition coefficient As-PHYT	m ³ /kgC	0.000
HLTAdsAs	half-life time non-eq. adsorption As	d	0.000
HLTDesAs	half-life time non-eq. desorption As	d	0.000
MolWtAs	Molweight As	g/mol	74.922
logKAsSs	precipitation constant As+S<==>	log1/(mol l) ⁻²	27.900
logKAsSaq	complexation constant As+S<==>AsS	log1/(mol l)	18.000
logKAsHSaq	complexation constant As+HS<==>As	log1/(mol l)	9.200
HMGroup3	Heavy metal group 3 As and Va	-	3.000
FrAsIM1	fraction As adsorbed to IM1	-	0.000
FrAsIM2	fraction As adsorbed to IM2	-	0.000
FrAsIM3	fraction As adsorbed to IM3	-	0.000
FrAsPOC	fraction As adsorbed to POC	-	0.000
FrAsPHYT	fraction As adsorbed to phytoplankton	-	0.000
QAsIM2	quality IM2 for As	gAs/gDM	0.000
QAsIM3	quality IM3 for As	gAs/gDM	0.000
QAsPOC	quality POC for As	gAs/gC	0.000
QAsPHYT	quality phytoplankton for As	gAs/gC	0.000
XDOCVa	efficiency DOC relative to POC for Va	-	0.180
KdVaIM1	partition coefficient Va-IM1	m ³ /kgDM	50.000
KdVaIM2	partition coefficient Va-IM2	m ³ /kgDM	50.000
KdVaIM3	partition coefficient Va-IM3	m ³ /kgDM	50.000
KdVaPOC	partition coefficient Va-POC	m ³ /kgC	0.000
KdVaPHYT	partition coefficient Va-PHYT	m ³ /kgC	0.000
HLTAdsVa	half-life time non-eq. adsorption Va	d	0.000
HLTDesVa	half-life time non-eq. desorption Va	d	0.000
MolWtVa	Molweight Va	g/mol	50.940
logKVasSs	precipitation constant Va+S<==>VaSs	log1/(mol l) ⁻²	27.900
logKVasSaq	complexation constant Va+S<==>VaS0aq	log1/(mol l)	18.000
logKVasHSaq	complexation constant Va+HS<==>VaHS+aq	log1/(mol l)	9.200
FrVaIM1	fraction Va adsorbed to IM1	-	0.000
FrVaIM2	fraction Va adsorbed to IM2	-	0.000
FrVaIM3	fraction Va adsorbed to IM3	-	0.000
FrVaPOC	fraction Va adsorbed to POC	-	0.000
FrVaPHYT	fraction Va adsorbed to phytoplankton	-	0.000
QVaIM2	quality IM2 for Va	gVa/gDM	0.000
QVaIM3	quality IM3 for Va	gVa/gDM	0.000
QVaPOC	quality POC for Va	gVa/gC	0.000
QVaPHYT	quality phytoplankton for Va	gVa/gC	0.000
XDOCGn	efficiency DOC relative to POC for Zn	-	0.180
KdZnPOC	partition coefficient Zn-POC	m ³ /kgC	0.000
KdZnPHYT	partition coefficient Zn-PHYT	m ³ /kgC	0.000
HLTAdsZn	half-life time non-eq. adsorption Zn	d	0.000
HLTDesZn	half-life time non-eq. desorption Zn	d	0.000
MolWtZn	Molweight Zn	g/mol	65.380
logKZnSs	precipitation constant Zn+S<==>ZnSs	log1/(mol l) ⁻²	27.900
logKZnSaq	complexation constant Zn+S<==>ZnS0aq	log1/(mol l)	18.000
logKZnHSaq	complexation constant Zn+HS<==>ZnHS+aq	log1/(mol l)	9.200
FrZnIM1	fraction Zn adsorbed to IM1	-	0.000
FrZnIM2	fraction Zn adsorbed to IM2	-	0.000
FrZnIM3	fraction Zn adsorbed to IM3	-	0.000
FrZnPOC	fraction Zn adsorbed to POC	-	0.000
FrZnPHYT	fraction Zn adsorbed to phytoplankton	-	0.000
QZnIM2	quality IM2 for Zn	gZn/gDM	0.000
QZnIM3	quality IM3 for Zn	gZn/gDM	0.000
QZnPOC	quality POC for Zn	gZn/gC	0.000
QZnPHYT	quality phytoplankton for Zn	gZn/gC	0.000
DOCS1	DOC in pore water layer S1	gC/m ³ p	0.000
KdCdIM1S1	partition coefficient Cd-IM1 in layer S1	m ³ /kgDM	130.000
KdCdIM2S1	partition coefficient Cd-IM2 in layer S1	m ³ /kgDM	130.000
KdCdIM3S1	partition coefficient Cd-IM3 in layer S1	m ³ /kgDM	130.000
KdCdPOCS1	partition coefficient Cd-POC in layer S1	m ³ /kgC	0.000
KdCdPHYTS1	partition coefficient Cd-PHYT in layer S1	m ³ /kgC	0.000
HLTAdsCdS1	half-life time non-eq. adsorption Cd in layer S1	d	0.000
HLTDesCdS1	half-life time non-eq. desorption Cd in layer S1	d	0.000
SWPoreChS1	switch for oxic 1 or sulfidic 0 pore water	-	1.000

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Process	Description	Unit	Default
DisSS1	S– in layer S1	(mol l)	0.000
DisHSS1	HS– in layer S1	(mol l)	0.000
SwSedYes	switch for using module in sediment	-	1.000
KdCrIM1S1	partition coefficient Cr-IM1 in layer S1	m ³ /kgDM	290.000
KdCrIM2S1	partition coefficient Cr-IM2 in layer S1	m ³ /kgDM	290.000
KdCrIM3S1	partition coefficient Cr-IM3 in layer S1	m ³ /kgDM	290.000
KdCrPOCS1	partition coefficient Cr-POC in layer S1	m ³ /kgC	0.000
KdCrPHYTS1	partition coefficient Cr-PHYT in layer S1	m ³ /kgC	0.000
HLTAdsCrS1	half-life time non-eq. adsorption Cr in layer S1	d	0.000
HLTDesCrS1	half-life time non-eq. desorption Cr in layer S1	d	0.000
KdCuIM1S1	partition coefficient Cu-IM1 in layer S1	m ³ /kgDM	50.000
KdCuIM2S1	partition coefficient Cu-IM2 in layer S1	m ³ /kgDM	50.000
KdCuIM3S1	partition coefficient Cu-IM3 in layer S1	m ³ /kgDM	50.000
KdCuPOCS1	partition coefficient Cu-POC in layer S1	m ³ /kgC	0.000
KdCuPHYTS1	partition coefficient Cu-PHYT in layer S1	m ³ /kgC	0.000
HLTAdsCuS1	half-life time non-eq. adsorption Cu in layer S1	d	0.000
HLTDesCuS1	half-life time non-eq. desorption Cu in layer S1	d	0.000
KdHgIM1S1	partition coefficient Hg-IM1 in layer S1	m ³ /kgDM	170.000
KdHgIM2S1	partition coefficient Hg-IM2 in layer S1	m ³ /kgDM	170.000
KdHgIM3S1	partition coefficient Hg-IM3 in layer S1	m ³ /kgDM	170.000
KdHgPOCS1	partition coefficient Hg-POC in layer S1	m ³ /kgC	0.000
KdHgPHYTS1	partition coefficient Hg-PHYT in layer S1	m ³ /kgC	0.000
HLTAdsHgS1	half-life time non-eq. adsorption Hg in layer S1	d	0.000
HLTDesHgS1	half-life time non-eq. desorption Hg in layer S1	d	0.000
KdNiIM1S1	partition coefficient Ni-IM1 in layer S1	m ³ /kgDM	9.000
KdNiIM2S1	partition coefficient Ni-IM2 in layer S1	m ³ /kgDM	9.000
KdNiIM3S1	partition coefficient Ni-IM3 in layer S1	m ³ /kgDM	9.000
KdNiPOCS1	partition coefficient Ni-POC in layer S1	m ³ /kgC	0.000
KdNiPHYTS1	partition coefficient Ni-PHYT in layer S1	m ³ /kgC	0.000
HLTAdsNiS1	half-life time non-eq. adsorption Ni in layer S1	d	0.000
HLTDesNiS1	half-life time non-eq. desorption Ni in layer S1	d	0.000
KdPbIM1S1	partition coefficient Pb-IM1 in layer S1	m ³ /kgDM	640.000
KdPbIM2S1	partition coefficient Pb-IM2 in layer S1	m ³ /kgDM	640.000
KdPbIM3S1	partition coefficient Pb-IM3 in layer S1	m ³ /kgDM	640.000
KdPbPOCS1	partition coefficient Pb-POC in layer S1	m ³ /kgC	0.000
KdPbPHYTS1	partition coefficient Pb-PHYT in layer S1	m ³ /kgC	0.000
HLTAdsPbS1	half-life time non-eq. adsorption Pb in layer S1	d	0.000
HLTDesPbS1	half-life time non-eq. desorption Pb in layer S1	d	0.000
KdAsIM1S1	partition coefficient As-IM1 in layer S1	m ³ /kgDM	282.000
KdAsIM2S1	partition coefficient As-IM2 in layer S1	m ³ /kgDM	282.000
KdAsIM3S1	partition coefficient As-IM3 in layer S1	m ³ /kgDM	282.000
KdAsPOCS1	partition coefficient As-POC in layer S1	m ³ /kgC	0.000
KdAsPHYTS1	partition coefficient As-PHYT in layer S1	m ³ /kgC	0.000
HLTAdsAsS1	half-life time non-eq. adsorption As in layer S	d	0.000
HLTDesAsS1	half-life time non-eq. desorption As in layer S	d	0.000
KdVaIM1S1	partition coefficient Va-IM1 in layer S1	m ³ /kgDM	50.000
KdVaIM2S1	partition coefficient Va-IM2 in layer S1	m ³ /kgDM	50.000
KdVaIM3S1	partition coefficient Va-IM3 in layer S1	m ³ /kgDM	50.000
KdVaPOCS1	partition coefficient Va-POC in layer S1	m ³ /kgC	0.000
KdVaPHYTS1	partition coefficient Va-PHYT in layer S1	m ³ /kgC	0.000
HLTAdsVaS1	half-life time non-eq. adsorption Va in layer S1	d	0.000
HLTDesVaS1	half-life time non-eq. desorption Va in layer S1	d	0.000
KdZnIM1S1	partition coefficient Zn-IM1 in layer S1	m ³ /kgDM	111.000
KdZnIM2S1	partition coefficient Zn-IM2 in layer S1	m ³ /kgDM	111.000
KdZnIM3S1	partition coefficient Zn-IM3 in layer S1	m ³ /kgDM	111.000
KdZnPOCS1	partition coefficient Zn-POC in layer S1	m ³ /kgC	0.000
KdZnPHYTS1	partition coefficient Zn-PHYT in layer S1	m ³ /kgC	0.000
HLTAdsZnS1	half-life time non-eq. adsorption Zn in layer S1	d	0.000
HLTDesZnS1	half-life time non-eq. desorption Zn in layer S1	d	0.000
DOCS2	DOC in pore water layer S2	gC/m ³ p	0.000
KdCdIM1S2	partition coefficient Cd-IM1 in layer S2	m ³ /kgDM	130.000
KdCdIM2S2	partition coefficient Cd-IM2 in layer S2	m ³ /kgDM	130.000
KdCdIM3S2	partition coefficient Cd-IM3 in layer S2	m ³ /kgDM	130.000
KdCdPOCS2	partition coefficient Cd-POC in layer S2	m ³ /kgC	0.000
KdCdPHYTS2	partition coefficient Cd-PHYT in layer S2	m ³ /kgC	0.000
HLTAdsCdS2	half-life time non-eq. adsorption Cd in layer S2	d	0.000
HLTDesCdS2	half-life time non-eq. desorption Cd in layer S2	d	0.000
SWPoreChS2	switch for oxic 1 or sulfidic 0 pore water	-	0.000
DisSS2	S– in layer S2	(mol l)	0.000

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Process	Description	Unit	Default
DisHSS2	HS- in layer S2	(mol l)	0.000
QCdDMS2	overall sediment quality for Cd in S2	mgCd/kgDM	0.000
KdCrIM1S2	partition coefficient Cr-IM1 in layer S2	m ³ /kgDM	290.000
KdCrIM2S2	partition coefficient Cr-IM2 in layer S2	m ³ /kgDM	290.000
KdCrIM3S2	partition coefficient Cr-IM3 in layer S2	m ³ /kgDM	290.000
KdCrPOCS2	partition coefficient Cr-POC in layer S2	m ³ /kgC	0.000
KdCrPHYTS2	partition coefficient Cr-PHYT in layer S2	m ³ /kgC	0.000
HLTAdsCrS2	half-life time non-eq. adsorption Cr in layer S2	d	0.000
HLTDesCrS2	half-life time non-eq. desorption Cr in layer S2	d	0.000
QCrDMS2	overall sediment quality for Cr in S2	mgCr/kgDM	0.000
KdCuIM1S2	partition coefficient Cu-IM1 in layer S2	m ³ /kgDM	50.000
KdCuIM2S2	partition coefficient Cu-IM2 in layer S2	m ³ /kgDM	50.000
KdCuIM3S2	partition coefficient Cu-IM3 in layer S2	m ³ /kgDM	50.000
KdCuPOCS2	partition coefficient Cu-POC in layer S2	m ³ /kgC	0.000
KdCuPHYTS2	partition coefficient Cu-PHYT in layer S2	m ³ /kgC	0.000
HLTAdsCuS2	half-life time non-eq. adsorption Cu in layer S2	d	0.000
HLTDesCuS2	half-life time non-eq. desorption Cu in layer S2	d	0.000
QCuDMS2	overall sediment quality for Cu in S2	mgCu/kgDM	0.000
KdHgIM1S2	partition coefficient Hg-IM1 in layer S2	m ³ /kgDM	170.000
KdHgIM2S2	partition coefficient Hg-IM2 in layer S2	m ³ /kgDM	170.000
KdHgIM3S2	partition coefficient Hg-IM3 in layer S2	m ³ /kgDM	170.000
KdHgPOCS2	partition coefficient Hg-POC in layer S2	m ³ /kgC	0.000
KdHgPHYTS2	partition coefficient Hg-PHYT in layer S2	m ³ /kgC	0.000
HLTAdsHgS2	half-life time non-eq. adsorption Hg in layer S2	d	0.000
HLTDesHgS2	half-life time non-eq. desorption Hg in layer S2	d	0.000
QHgDMS2	overall sediment quality for Hg in S2	mgHg/kgDM	0.000
KdNiIM1S2	partition coefficient Ni-IM1 in layer S2	m ³ /kgDM	9.000
KdNiIM2S2	partition coefficient Ni-IM2 in layer S2	m ³ /kgDM	9.000
KdNiIM3S2	partition coefficient Ni-IM3 in layer S2	m ³ /kgDM	9.000
KdNiPOCS2	partition coefficient Ni-POC in layer S2	m ³ /kgC	0.000
KdNiPHYTS2	partition coefficient Ni-PHYT in layer S2	m ³ /kgC	0.000
HLTAdsNiS2	half-life time non-eq. adsorption Ni in layer S2	d	0.000
HLTDesNiS2	half-life time non-eq. desorption Ni in layer S2	d	0.000
QNiDMS2	overall sediment quality for Ni in S2	mgNi/kgDM	0.000
KdPbIM1S2	partition coefficient Pb-IM1 in layer S2	m ³ /kgDM	640.000
KdPbIM2S2	partition coefficient Pb-IM2 in layer S2	m ³ /kgDM	640.000
KdPbIM3S2	partition coefficient Pb-IM3 in layer S2	m ³ /kgDM	640.000
KdPbPOCS2	partition coefficient Pb-POC in layer S2	m ³ /kgC	0.000
KdPbPHYTS2	partition coefficient Pb-PHYT in layer S2	m ³ /kgC	0.000
HLTAdsPbS2	half-life time non-eq. adsorption Pb in layer S2	d	0.000
HLTDesPbS2	half-life time non-eq. desorption Pb in layer S2	d	0.000
QPbDMS2	overall sediment quality for Pb in S2	mgPb/kgDM	0.000
KdAsIM1S2	partition coefficient As-IM1 in layer S2	m ³ /kgDM	282.000
KdAsIM2S2	partition coefficient As-IM2 in layer S2	m ³ /kgDM	282.000
KdAsIM3S2	partition coefficient As-IM3 in layer S2	m ³ /kgDM	282.000
KdAsPOCS2	partition coefficient As-POC in layer S2	m ³ /kgC	0.000
KdAsPHYTS2	partition coefficient As-PHYT in layer S2	m ³ /kgC	0.000
HLTAdsAsS2	half-life time non-eq. adsorption As in layer S	d	0.000
HLTDesAsS2	half-life time non-eq. desorption As in layer S	d	0.000
QAsDMS2	overall sediment quality for As in S2	mgAs/kgDM	0.000
KdValIM1S2	partition coefficient Va-IM1 in layer S2	m ³ /kgDM	50.000
KdValIM2S2	partition coefficient Va-IM2 in layer S2	m ³ /kgDM	50.000
KdValIM3S2	partition coefficient Va-IM3 in layer S2	m ³ /kgDM	50.000
KdVaPOCS2	partition coefficient Va-POC in layer S2	m ³ /kgC	0.000
KdVaPHYTS2	partition coefficient Va-PHYT in layer S2	m ³ /kgC	0.000
HLTAdsVaS2	half-life time non-eq. adsorption Va in layer S2	d	0.000
HLTDesVaS2	half-life time non-eq. desorption Va in layer S2	d	0.000
QVaDMS2	overall sediment quality for Va in S2	mgVa/kgDM	0.000
KdZnIM1S2	partition coefficient Zn-IM1 in layer S2	m ³ /kgDM	111.000
KdZnIM2S2	partition coefficient Zn-IM2 in layer S2	m ³ /kgDM	111.000
KdZnIM3S2	partition coefficient Zn-IM3 in layer S2	m ³ /kgDM	111.000
KdZnPOCS2	partition coefficient Zn-POC in layer S2	m ³ /kgC	0.000
KdZnPHYTS2	partition coefficient Zn-PHYT in layer S2	m ³ /kgC	0.000
HLTAdsZnS2	half-life time non-eq. adsorption Zn in layer S2	d	0.000
HLTDesZnS2	half-life time non-eq. desorption Zn in layer S2	d	0.000
QZnDMS2	overall sediment quality for Zn in S2	mgZn/kgDM	0.000
XDOC153	efficiency DOC relative to POC for 153	-	0.180
KdDumIM1	partition coefficient dumIM1	m ³ /kgDM	0.000
KdDumIM2	partition coefficient dumIM2	m ³ /kgDM	0.000

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Process	Description	Unit	Default
KdDumIM3	partition coefficient dumIM3	m ³ /kgDM	0.000
IKpoc153S1	log partition coefficient 153-POC in layer S1	l/kgC	5.800
IKphy153S1	log partition coefficient 153-PHYT in layer S1	l/kgC	5.800
HLTAds153S	half-life time non-eq. adsorption 153 in sediment	d	0.000
HLTDes153S	half-life time non-eq. desorption 153 in sediment	d	0.000
OMPGGroup	Organic micro pollutants group 4	-	4.000
XDOCAtr	efficiency DOC relative to POC for Atrazine	-	0.180
IKpocAtrS1	log partition coefficient Atr-POC in layer S1	l/kgC	2.200
IKphyAtrS1	log partition coefficient Atr-PHYT in layer S1	l/kgC	2.200
HLTAdsAtrS	half-life time non-eq. adsorption Atr in sediment	d	0.000
HLTDesAtrS	half-life time non-eq. desorption Atr in sediment	d	0.000
XDOCBaP	efficiency DOC relative to POC for BaP	-	0.180
IKpocBaPS1	log partition coefficient BaP-POC in layer S1	l/kgC	7.300
IKphyBaPS1	log partition coefficient BaP-PHYT in layer S1	l/kgC	7.300
HLTAdsBaPS	half-life time non-eq. adsorption BaP in sediment	d	0.000
HLTDesBaPS	half-life time non-eq. desorption BaP in sediment	d	0.000
XDOCDiu	efficiency DOC relative to POC for Diu	-	0.180
IKpocDiuS1	log partition coefficient Diu-POC in layer S1	l/kgC	2.500
IKphyDiuS1	log partition coefficient Diu-PHYT in layer S1	l/kgC	2.500
HLTAdsDiuS	half-life time non-eq. adsorption Diu in sediment	d	0.000
HLTDesDiuS	half-life time non-eq. desorption Diu in sediment	d	0.000
XDOCFlu	efficiency DOC relative to POC for Flu	-	0.180
IKpocFluS1	log partition coefficient Flu-POC in layer S1	l/kgC	6.400
IKphyFluS1	log partition coefficient Flu-PHYT in layer S1	l/kgC	6.400
HLTAdsFluS	half-life time non-eq. adsorption Flu in sediment	d	0.000
HLTDesFluS	half-life time non-eq. desorption Flu in sediment	d	0.000
XDOCHCB	efficiency DOC relative to POC for HCB	-	0.180
IKpocHCBS1	log partition coefficient HCB-POC in layer S1	l/kgC	5.500
IKphyHCBS1	log partition coefficient HCB-PHYT in layer S1	l/kgC	5.500
HLTAdsHCBS	half-life time non-eq. adsorption HCB in sediment	d	0.000
HLTDesHCBS	half-life time non-eq. desorption HCB in sediment	d	0.000
XDOCHCH	efficiency DOC relative to POC for HCH	-	0.500
IKpocHCHS1	log partition coefficient HCH-POC in layer S1	l/kgC	3.000
IKphyHCHS1	log partition coefficient HCH-PHYT in layer S1	l/kgC	3.000
HLTAdHCHS	half-life time non-eq. adsorption HCH in sediment	d	0.000
HLTDesHCHS	half-life time non-eq. desorption HCH in sediment	d	0.000
XDOCMef	efficiency DOC relative to POC for Mef	-	0.180
IKpocMefS1	log partition coefficient Mef-POC in layer S1	l/kgC	2.800
IKphyMefS1	log partition coefficient Mef-PHYT in layer S1	l/kgC	2.800
HLTAdMefS	half-life time non-eq. adsorption Mef in sediment	d	0.000
HLTDesMefS	half-life time non-eq. desorption Mef in sediment	d	0.000
IKpoc153S2	log partition coefficient 153-POC in layer S2	l/kgC	5.800
IKphy153S2	log partition coefficient 153-PHYT in layer S2	l/kgC	5.800
IKpocAtrS2	log partition coefficient Atr-POC in layer S2	l/kgC	2.200
IKphyAtrS2	log partition coefficient Atr-PHYT in layer S2	l/kgC	2.200
IKpocBaPS2	log partition coefficient BaP-POC in layer S2	l/kgC	7.300
IKphyBaPS2	log partition coefficient BaP-PHYT in layer S2	l/kgC	7.300
IKpocDiuS2	log partition coefficient Diu-POC in layer S2	l/kgC	2.500
IKphyDiuS2	log partition coefficient Diu-PHYT in layer S2	l/kgC	2.500
IKpocFluS2	log partition coefficient Flu-POC in layer S2	l/kgC	6.400
IKphyFluS2	log partition coefficient Flu-PHYT in layer S2	l/kgC	6.400
IKpocHCBS2	log partition coefficient HCB-POC in layer S2	l/kgC	5.500
IKphyHCBS2	log partition coefficient HCB-PHYT in layer S2	l/kgC	5.500
IKpocHCHS2	log partition coefficient HCH-POC in layer S2	l/kgC	3.000
IKphyHCHS2	log partition coefficient HCH-PHYT in layer S2	l/kgC	3.000
IKpocMefS2	log partition coefficient Mef-POC in layer S2	l/kgC	2.800
IKphyMefS2	log partition coefficient Mef-PHYT in layer S2	l/kgC	2.800
IKpoc153	log partition coefficient 153-POC	l/kgC	5.800
IKphy153	log partition coefficient 153-PHYT	l/kgC	5.800
HLTAds153	half-life time non-eq. adsorption 153	d	0.000
HLTDes153	half-life time non-eq. desorption 153	d	0.000
Fr153POC	fraction 153 adsorbed to POC	-	0.000
Fr153PHYT	fraction 153 adsorbed to phytoplankton	-	0.000
Q153PHYT	quality phytoplankton for 153 in water column	g153/gC	0.000
IKpocAtr	log partition coefficient Atr-POC	l/kgC	2.200
IKphyAtr	log partition coefficient Atr-PHYT	l/kgC	2.200
HLTAdsAtr	half-life time non-eq. adsorption Atr	d	0.000
HLTDesAtr	half-life time non-eq. desorption Atr	d	0.000
FrAtrPOC	fraction Atr adsorbed to POC	-	0.000
FrAtrPHYT	fraction Atr adsorbed to phytoplankton	-	0.000
QAtrPHYT	quality phytoplankton for Atrazine in water column	gAtr/gC	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
IKpocBaP	log partition coefficient BaP-POC	l/kgC	7.300
IKphyBaP	log partition coefficient BaP-PHYT	l/kgC	7.300
HLTAdsBaP	half-life time non-eq. adsorption BaP	d	0.000
HLTDesBaP	half-life time non-eq. desorption BaP	d	0.000
FrBaPPOC	fraction BaP adsorbed to POC	-	0.000
FrBaPPHYT	fraction BaP adsorbed to phytoplankton	-	0.000
QBaPPHYT	quality phytoplankton for BaP in water column	gBaP/gC	0.000
IKpocDiu	log partition coefficient Diu-POC	l/kgC	2.500
IKphyDiu	log partition coefficient Diu-PHYT	l/kgC	2.500
HLTAdsDiu	half-life time non-eq. adsorption Diu	d	0.000
HLTDesDiu	half-life time non-eq. desorption Diu	d	0.000
FrDiuPOC	fraction Diu adsorbed to POC	-	0.000
FrDiuPHYT	fraction Diu adsorbed to phytoplankton	-	0.000
QDiuPHYT	quality phytoplankton for Diu in water column	gDiu/gC	0.000
IKpocFlu	log partition coefficient Flu-POC	l/kgC	6.400
IKphyFlu	log partition coefficient Flu-PHYT	l/kgC	6.400
HLTAdsFlu	half-life time non-eq. adsorption Flu	d	0.000
HLTDesFlu	half-life time non-eq. desorption Flu	d	0.000
FrFluPOC	fraction Flu adsorbed to POC	-	0.000
FrFluPHYT	fraction Flu adsorbed to phytoplankton	-	0.000
QFluPHYT	quality phytoplankton for Flu in water column	gFlu/gC	0.000
IKpocHCB	log partition coefficient HCB-POC	l/kgC	5.500
IKphyHCB	log partition coefficient HCB-PHYT	l/kgC	5.500
HLTAdsHCB	half-life time non-eq. adsorption HCB	d	0.000
HLTDesHCB	half-life time non-eq. desorption HCB	d	0.000
FrHCBPOC	fraction HCB adsorbed to POC	-	0.000
FrHCBPHYT	fraction HCB adsorbed to phytoplankton	-	0.000
QHCBPHYT	quality phytoplankton for HCB in water column	gHCB/gC	0.000
IKpocHCH	log partition coefficient HCH-POC	l/kgC	3.000
IKphyHCH	log partition coefficient HCH-PHYT	l/kgC	3.000
HLTAdsHCH	half-life time non-eq. adsorption HCH	d	0.000
HLTDesHCH	half-life time non-eq. desorption HCH	d	0.000
FrHCHPOC	fraction HCH adsorbed to POC	-	0.000
FrHCHPHYT	fraction HCH adsorbed to phytoplankton	-	0.000
QHCHPHYT	quality phytoplankton for HCH in water column	gHCH/gC	0.000
IKpocMef	log partition coefficient Mef-POC	l/kgC	2.800
IKphyMef	log partition coefficient Mef-PHYT	l/kgC	2.800
HLTAdsMef	half-life time non-eq. adsorption Mef	d	0.000
HLTDesMef	half-life time non-eq. desorption Mef	d	0.000
FrMefPOC	fraction Mef adsorbed to POC	-	0.000
FrMefPHYT	fraction Mef adsorbed to phytoplankton	-	0.000
QMefPHYT	quality phytoplankton for Mef in water column	gMef/gC	0.000
FrNonDis	substance not in dis phase	-	0.000
FrNonDOC	substance not in DOC phase	-	0.000
xtrdsp_non	extra diffusion factor during emersion	-	1.000
FrAlIDis	substance in dis phase	-	1.000
XtrDsp_OXY	extra diffusion factor during emersion DO	-	1.000
XtrDsp_dis	extra diffusion factor during emersion	-	1.000
FrAlIDOC	substance in DOC phase	-	1.000
XtrDsp_TIC	extra diffusion factor during emersion TIC	-	1.000
TauCrUlva	critical shear stress for resuspension ULVA	N/m ²	0.200
FixGrad	gradient of fixation versus shear stress	-	2.000
SWDetTyp	option for POX value must not be changed	-	1.000
ZDETF	Faecal fraction for detritus of Zooplank	-	0.500
ZDETPR	Preference of Zooplank for detritus	-	1.000
ZGRZFM	Max. filtration velocity Zooplank	m ³ /gC/d	1.500
ZGRZGM	Max. relative growth rate Zooplank	1/d	0.500
ZGRZML	Mult. factor for biomass Zooplank	-	1.000
ZGRZMM	Max. relative mortality Zooplank	1/d	0.500
ZGRZMO	Monod term filtration rate Zooplank	gC/m ³	0.100
ZGRZRE	Maintenance respiration coefficient Zooplank	-	0.250
ZGRZRM	Max. daily uptake Zooplank	mgC/mgC.d	1.500
ZGRZSE	Standard respiration coefficient Zooplank	1/d	0.050
ZFrDetBot	Fract. produced detritus to bottom Zooplank	-	0.000
ZGRZSTC	C:C ratio Zooplank	gC/gC	1.000
ZGRZSTN	N:C ratio Zooplank	gN/gC	0.182
ZGRZSTP	P:C ratio Zooplank	gP/gC	0.026
ZGRZSTSi	Si:C ratio Zooplank	gSi/gC	0.000
ZTMPFM	temperature coefficient Zooplank filtration	1/°C	0.040
ZTMPGM	temperature coefficient Zooplank growth	1/°C	0.040
ZTMPMM	temperature coefficient Zooplank mortality	1/°C	0.040

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Process	Description	Unit	Default
ZTMPRE	temperature coefficient Zooplank routine metabol.	1/°C	0.040
ZTMPRM	temperature coefficient Zooplank feeding rate	1/°C	0.040
ZTMPSE	temperature coefficient Zooplank standard metabol.	1/°C	0.040
ZUnitSW	Use gC/m ³ 0 or gC/m ² 1 for Zooplankton	-	0.000
Mussel	input concentration of Mussel	gC/m ² ∨ gC/m ³	0.000
MDETFF	Faecal fraction for detritus of Mussel	-	0.500
MDETPR	Preference of Mussel for detritus	-	1.000
MGRZFM	maximum filtration velocity Mussel	m ³ /gC/d	0.050
MGRZGM	maximum relative growth rate Mussel	1/d	0.200
MGRZML	multiplication factor for biomass Mussel	-	1.000
MGRZMM	maximum relative mortality Mussel	1/d	0.200
MGRZMO	Monod term filtration rate Mussel	gC/m ³	0.100
MGRZRE	Maintenance respiration coefficient Mussel	-	0.200
MGRZRM	maximum daily uptake Mussel	mgC/mgC.d	0.100
MGRZSE	Standard respiration coefficient Mussel	1/d	0.005
MFrDetBot	Fract. produced detritus to bottom Mussel	-	1.000
MGRZSTC	C:C ratio Mussel	gC/gC	1.000
MGRZSTN	N:C ratio Mussel	gN/gC	0.182
MGRZSTP	P:C ratio Mussel	gP/gC	0.026
MGRZSTSi	Si:C ratio Mussel	gSi/gC	0.000
MTMPFM	temperature coefficient Mussel filtration	1/°C	0.040
MTMPGM	temperature coefficient Mussel growth	1/°C	0.040
MTMPMM	temperature coefficient Mussel mortality	1/°C	0.040
MTMPRE	temperature coefficient Mussel routine metabol.	1/°C	0.040
MTMPRM	temperature coefficient Mussel feeding rate	1/°C	0.040
MTMPSE	temperature coefficient Mussel standard metabol.	1/°C	0.040
MUnitSW	Use gC/m ³ 0 or gC/m ² 1 for Mussels	-	1.000
Grazer3	input concentration of Grazer3	gC/m ² ∨ gC/m ³	0.000
G3DETFF	Faecal fraction for detritus of grazer 3	-	0.500
G3DETPR	Preference of grazer 3 for detritus	-	1.000
G3GRZFM	Maximum filtration velocity grazer 3	m ³ /gC/d	1.500
G3GRZGM	Maximum relative growth rate grazer 3	1/d	0.500
G3GRZML	Multiplication factor for biomass grazer 3	-	1.000
G3GRZMM	Maximum relative mortality grazer 3	1/d	0.500
G3GRZMO	Monod term filtration rate grazer 3	gC/m ³	0.100
G3GRZRE	Maintenance respiration coefficient grazer 3	-	0.250
G3GRZRM	Maximum daily uptake grazer 3	mgC/mgC.d	1.500
G3GRZSE	Standard respiration coefficient grazer 3	1/d	0.050
G3FrDetBot	Fract. produced detritus to bottom grazer 3	-	0.000
G3GRZSTC	C:C ratio grazer 3	gC/gC	1.000
G3GRZSTN	N:C ratio grazer 3	gN/gC	0.182
G3GRZSTP	P:C ratio grazer 3	gP/gC	0.026
G3GRZSTSi	Si:C ratio grazer 3	gSi/gC	0.000
G3TMPFM	temperature coefficient grazer 3 filtration	1/°C	0.040
G3TMPGM	temperature coefficient grazer 3 growth	1/°C	0.040
G3TMPMM	temperature coefficient grazer 3 mortality	1/°C	0.040
G3TMPRE	temperature coefficient grazer 3 routine metabol.	1/°C	0.040
G3TMPRM	temperature coefficient grazer 3 feeding rate	1/°C	0.040
G3TMPSE	temperature coefficient grazer 3 standard metabol.	1/°C	0.040
G3UnitSW	Use gC/m ³ 0 or gC/m ² 1 for Grazer 3	-	0.000
Grazer4	input concentration of Grazer4	gC/m ² ∨ gC/m ³	0.000
G4DETFF	Faecal fraction for detritus of grazer 4	-	0.500
G4DETPR	Preference of grazer 4 for detritus	-	1.000
G4GRZFM	Maximum filtration velocity grazer 4	m ³ /gC/d	1.500
G4GRZGM	Maximum relative growth rate grazer 4	1/d	0.500
G4GRZML	Multiplication factor for biomass grazer 4	-	1.000
G4GRZMM	Maximum relative mortality grazer 4	1/d	0.500
G4GRZMO	Monod term filtration rate grazer 4	gC/m ³	0.100
G4GRZRE	Maintenance respiration coefficient grazer 4	-	0.250
G4GRZRM	Maximum daily uptake grazer 4	mgC/mgC.d	1.500
G4GRZSE	Standard respiration coefficient grazer 4	1/d	0.050
G4FrDetBot	Fract. produced detritus to bottom grazer 4	-	0.000
G4GRZSTC	C:C ratio grazer 4	gC/gC	1.000
G4GRZSTN	N:C ratio grazer 4	gN/gC	0.182
G4GRZSTP	P:C ratio grazer 4	gP/gC	0.026
G4GRZSTSi	Si:C ratio grazer 4	gSi/gC	0.000
G4TMPFM	temperature coefficient grazer 4 filtration	1/°C	0.040
G4TMPGM	temperature coefficient grazer 4 growth	1/°C	0.040
G4TMPMM	temperature coefficient grazer 4 mortality	1/°C	0.040
G4TMPRE	temperature coefficient grazer 4 routine metabol.	1/°C	0.040

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
G4TMPRM	temperature coefficient grazer 4 feeding rate	1/°C	0.040
G4TMPSE	temperature coefficient grazer 4 standard metabol.	1/°C	0.040
G4UnitSW	Use gC/m ³ 0 or gC/m ² 1 for Grazer 4	-	0.000
Grazer5	input concentration of Grazer5	gC/m ² ∨ gC/m ³	0.000
G5DETF	Faecal fraction for detritus of grazer 5	-	0.500
G5DETPR	Preference of grazer 5 for detritus	-	1.000
G5GRZFM	Maximum filtration velocity grazer 5	m ³ /gC/d	1.500
G5GRZGM	Maximum relative growth rate grazer 5	1/d	0.500
G5GRZML	Multiplication factor for biomass grazer 5	-	1.000
G5GRZMM	Maximum relative mortality grazer 5	1/d	0.500
G5GRZMO	Monod term filtration rate grazer 5	gC/m ³	0.100
G5GRZRE	Maintenance respiration coefficient grazer 5	-	0.250
G5GRZRM	Maximum daily uptake grazer 5	mgC/mgC.d	1.500
G5GRZSE	Standard respiration coefficient grazer 5	1/d	0.050
G5FrDetBot	Fract. produced detritus to bottom grazer 5	-	0.000
G5GRZSTC	C:C ratio grazer 5	gC/gC	1.000
G5GRZSTN	N:C ratio grazer 5	gN/gC	0.182
G5GRZSTP	P:C ratio grazer 5	gP/gC	0.026
G5GRZSTSi	Si:C ratio grazer 5	gSi/gC	0.000
G5TMPFM	temperature coefficient grazer 5 filtration	1/°C	0.040
G5TMPGM	temperature coefficient grazer 5 growth	1/°C	0.040
G5TMPMM	temperature coefficient grazer 5 mortality	1/°C	0.040
G5TMPRE	temperature coefficient grazer 5 routine metabol.	1/°C	0.040
G5TMPRM	temperature coefficient grazer 5 feeding rate	1/°C	0.040
G5TMPSE	temperature coefficient grazer 5 standard metabol.	1/°C	0.040
G5UnitSW	Use gC/m ³ 0 or gC/m ² 1 for Grazer 5	-	0.000
ZALGPRGrn	Preference of Zooplank for Greens	-	1.000
ZALGPRDiat	Preference of Zooplank for Diatoms	-	1.000
ZALGPR01	Preference of Zooplank for algae type 01	-	1.000
ZALGPR02	Preference of Zooplank for algae type 02	-	1.000
ZALGPR03	Preference of Zooplank for algae type 03	-	1.000
ZALGPR04	Preference of Zooplank for algae type 04	-	1.000
ZALGPR05	Preference of Zooplank for algae type 05	-	1.000
ZALGPR06	Preference of Zooplank for algae type 06	-	1.000
ZALGPR07	Preference of Zooplank for algae type 07	-	1.000
ZALGPR08	Preference of Zooplank for algae type 08	-	1.000
ZALGPR09	Preference of Zooplank for algae type 09	-	1.000
ZALGPR10	Preference of Zooplank for algae type 10	-	1.000
ZALGPR11	Preference of Zooplank for algae type 11	-	1.000
ZALGPR12	Preference of Zooplank for algae type 12	-	1.000
ZALGPR13	Preference of Zooplank for algae type 13	-	1.000
ZALGPR14	Preference of Zooplank for algae type 14	-	1.000
ZALGPR15	Preference of Zooplank for algae type 15	-	1.000
ZALGPR16	Preference of Zooplank for algae type 16	-	1.000
ZALGPR17	Preference of Zooplank for algae type 17	-	1.000
ZALGPR18	Preference of Zooplank for algae type 18	-	1.000
ZALGPR19	Preference of Zooplank for algae type 19	-	1.000
ZALGPR20	Preference of Zooplank for algae type 20	-	1.000
ZALGPR21	Preference of Zooplank for algae type 21	-	1.000
ZALGPR22	Preference of Zooplank for algae type 22	-	1.000
ZALGPR23	Preference of Zooplank for algae type 23	-	1.000
ZALGPR24	Preference of Zooplank for algae type 24	-	1.000
ZALGPR25	Preference of Zooplank for algae type 25	-	1.000
ZALGPR26	Preference of Zooplank for algae type 26	-	1.000
ZALGPR27	Preference of Zooplank for algae type 27	-	1.000
ZALGPR28	Preference of Zooplank for algae type 28	-	1.000
ZALGPR29	Preference of Zooplank for algae type 29	-	1.000
ZALGPR30	Preference of Zooplank for algae type 30	-	1.000
MALGPRGrn	Preference of Mussel for Greens	-	1.000
MALGPRDiat	Preference of Mussel for Diatoms	-	1.000
MALGPR01	Preference of Mussel for algae type 01	-	1.000
MALGPR02	Preference of Mussel for algae type 02	-	1.000
MALGPR03	Preference of Mussel for algae type 03	-	1.000
MALGPR04	Preference of Mussel for algae type 04	-	1.000
MALGPR05	Preference of Mussel for algae type 05	-	1.000
MALGPR06	Preference of Mussel for algae type 06	-	1.000
MALGPR07	Preference of Mussel for algae type 07	-	1.000
MALGPR08	Preference of Mussel for algae type 08	-	1.000
MALGPR09	Preference of Mussel for algae type 09	-	1.000
MALGPR10	Preference of Mussel for algae type 10	-	1.000
MALGPR11	Preference of Mussel for algae type 11	-	1.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
MALGPR12	Preference of Mussel for algae type 12	-	1.000
MALGPR13	Preference of Mussel for algae type 13	-	1.000
MALGPR14	Preference of Mussel for algae type 14	-	1.000
MALGPR15	Preference of Mussel for algae type 15	-	1.000
MALGPR16	Preference of Mussel for algae type 16	-	1.000
MALGPR17	Preference of Mussel for algae type 17	-	1.000
MALGPR18	Preference of Mussel for algae type 18	-	1.000
MALGPR19	Preference of Mussel for algae type 19	-	1.000
MALGPR20	Preference of Mussel for algae type 20	-	1.000
MALGPR21	Preference of Mussel for algae type 21	-	1.000
MALGPR22	Preference of Mussel for algae type 22	-	1.000
MALGPR23	Preference of Mussel for algae type 23	-	1.000
MALGPR24	Preference of Mussel for algae type 24	-	1.000
MALGPR25	Preference of Mussel for algae type 25	-	1.000
MALGPR26	Preference of Mussel for algae type 26	-	1.000
MALGPR27	Preference of Mussel for algae type 27	-	1.000
MALGPR28	Preference of Mussel for algae type 28	-	1.000
MALGPR29	Preference of Mussel for algae type 29	-	1.000
MALGPR30	Preference of Mussel for algae type 30	-	1.000
G3ALGPRGrn	Preference of grazer 3 for Greens	-	1.000
G3ALGPRDia	Preference of grazer 3 for Diatoms	-	1.000
G3ALGPR01	Preference of grazer 3 for algae type 01	-	1.000
G3ALGPR02	Preference of grazer 3 for algae type 02	-	1.000
G3ALGPR03	Preference of grazer 3 for algae type 03	-	1.000
G3ALGPR04	Preference of grazer 3 for algae type 04	-	1.000
G3ALGPR05	Preference of grazer 3 for algae type 05	-	1.000
G3ALGPR06	Preference of grazer 3 for algae type 06	-	1.000
G3ALGPR07	Preference of grazer 3 for algae type 07	-	1.000
G3ALGPR08	Preference of grazer 3 for algae type 08	-	1.000
G3ALGPR09	Preference of grazer 3 for algae type 09	-	1.000
G3ALGPR10	Preference of grazer 3 for algae type 10	-	1.000
G3ALGPR11	Preference of grazer 3 for algae type 11	-	1.000
G3ALGPR12	Preference of grazer 3 for algae type 12	-	1.000
G3ALGPR13	Preference of grazer 3 for algae type 13	-	1.000
G3ALGPR14	Preference of grazer 3 for algae type 14	-	1.000
G3ALGPR15	Preference of grazer 3 for algae type 15	-	1.000
G3ALGPR16	Preference of grazer 3 for algae type 16	-	1.000
G3ALGPR17	Preference of grazer 3 for algae type 17	-	1.000
G3ALGPR18	Preference of grazer 3 for algae type 18	-	1.000
G3ALGPR19	Preference of grazer 3 for algae type 19	-	1.000
G3ALGPR20	Preference of grazer 3 for algae type 20	-	1.000
G3ALGPR21	Preference of grazer 3 for algae type 21	-	1.000
G3ALGPR22	Preference of grazer 3 for algae type 22	-	1.000
G3ALGPR23	Preference of grazer 3 for algae type 23	-	1.000
G3ALGPR24	Preference of grazer 3 for algae type 24	-	1.000
G3ALGPR25	Preference of grazer 3 for algae type 25	-	1.000
G3ALGPR26	Preference of grazer 3 for algae type 26	-	1.000
G3ALGPR27	Preference of grazer 3 for algae type 27	-	1.000
G3ALGPR28	Preference of grazer 3 for algae type 28	-	1.000
G3ALGPR29	Preference of grazer 3 for algae type 29	-	1.000
G3ALGPR30	Preference of grazer 3 for algae type 30	-	1.000
G4ALGPRGrn	Preference of grazer 4 for Greens	-	1.000
G4ALGPRDia	Preference of grazer 4 for Diatoms	-	1.000
G4ALGPR01	Preference of grazer 4 for algae type 01	-	1.000
G4ALGPR02	Preference of grazer 4 for algae type 02	-	1.000
G4ALGPR03	Preference of grazer 4 for algae type 03	-	1.000
G4ALGPR04	Preference of grazer 4 for algae type 04	-	1.000
G4ALGPR05	Preference of grazer 4 for algae type 05	-	1.000
G4ALGPR06	Preference of grazer 4 for algae type 06	-	1.000
G4ALGPR07	Preference of grazer 4 for algae type 07	-	1.000
G4ALGPR08	Preference of grazer 4 for algae type 08	-	1.000
G4ALGPR09	Preference of grazer 4 for algae type 09	-	1.000
G4ALGPR10	Preference of grazer 4 for algae type 10	-	1.000
G4ALGPR11	Preference of grazer 4 for algae type 11	-	1.000
G4ALGPR12	Preference of grazer 4 for algae type 12	-	1.000
G4ALGPR13	Preference of grazer 4 for algae type 13	-	1.000
G4ALGPR14	Preference of grazer 4 for algae type 14	-	1.000
G4ALGPR15	Preference of grazer 4 for algae type 15	-	1.000
G4ALGPR16	Preference of grazer 4 for algae type 16	-	1.000
G4ALGPR17	Preference of grazer 4 for algae type 17	-	1.000
G4ALGPR18	Preference of grazer 4 for algae type 18	-	1.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
G4ALGPR19	Preference of grazer 4 for algae type 19	-	1.000
G4ALGPR20	Preference of grazer 4 for algae type 20	-	1.000
G4ALGPR21	Preference of grazer 4 for algae type 21	-	1.000
G4ALGPR22	Preference of grazer 4 for algae type 22	-	1.000
G4ALGPR23	Preference of grazer 4 for algae type 23	-	1.000
G4ALGPR24	Preference of grazer 4 for algae type 24	-	1.000
G4ALGPR25	Preference of grazer 4 for algae type 25	-	1.000
G4ALGPR26	Preference of grazer 4 for algae type 26	-	1.000
G4ALGPR27	Preference of grazer 4 for algae type 27	-	1.000
G4ALGPR28	Preference of grazer 4 for algae type 28	-	1.000
G4ALGPR29	Preference of grazer 4 for algae type 29	-	1.000
G4ALGPR30	Preference of grazer 4 for algae type 30	-	1.000
G5ALGPRGrn	Preference of grazer 5 for Greens	-	1.000
G5ALGPRDiat	Preference of grazer 5 for Diatoms	-	1.000
G5ALGPR01	Preference of grazer 5 for algae type 01	-	1.000
G5ALGPR02	Preference of grazer 5 for algae type 02	-	1.000
G5ALGPR03	Preference of grazer 5 for algae type 03	-	1.000
G5ALGPR04	Preference of grazer 5 for algae type 04	-	1.000
G5ALGPR05	Preference of grazer 5 for algae type 05	-	1.000
G5ALGPR06	Preference of grazer 5 for algae type 06	-	1.000
G5ALGPR07	Preference of grazer 5 for algae type 07	-	1.000
G5ALGPR08	Preference of grazer 5 for algae type 08	-	1.000
G5ALGPR09	Preference of grazer 5 for algae type 09	-	1.000
G5ALGPR10	Preference of grazer 5 for algae type 10	-	1.000
G5ALGPR11	Preference of grazer 5 for algae type 11	-	1.000
G5ALGPR12	Preference of grazer 5 for algae type 12	-	1.000
G5ALGPR13	Preference of grazer 5 for algae type 13	-	1.000
G5ALGPR14	Preference of grazer 5 for algae type 14	-	1.000
G5ALGPR15	Preference of grazer 5 for algae type 15	-	1.000
G5ALGPR16	Preference of grazer 5 for algae type 16	-	1.000
G5ALGPR17	Preference of grazer 5 for algae type 17	-	1.000
G5ALGPR18	Preference of grazer 5 for algae type 18	-	1.000
G5ALGPR19	Preference of grazer 5 for algae type 19	-	1.000
G5ALGPR20	Preference of grazer 5 for algae type 20	-	1.000
G5ALGPR21	Preference of grazer 5 for algae type 21	-	1.000
G5ALGPR22	Preference of grazer 5 for algae type 22	-	1.000
G5ALGPR23	Preference of grazer 5 for algae type 23	-	1.000
G5ALGPR24	Preference of grazer 5 for algae type 24	-	1.000
G5ALGPR25	Preference of grazer 5 for algae type 25	-	1.000
G5ALGPR26	Preference of grazer 5 for algae type 26	-	1.000
G5ALGPR27	Preference of grazer 5 for algae type 27	-	1.000
G5ALGPR28	Preference of grazer 5 for algae type 28	-	1.000
G5ALGPR29	Preference of grazer 5 for algae type 29	-	1.000
G5ALGPR30	Preference of grazer 5 for algae type 30	-	1.000
ZALGFFGrn	Faecal fraction Greens for Zooplank	-	0.500
ZALGFFDiat	Faecal fraction Diatoms for Zooplank	-	0.500
ZALGFF01	Faecal fraction Alg01 for Zooplank	-	0.500
ZALGFF02	Faecal fraction Alg02 for Zooplank	-	0.500
ZALGFF03	Faecal fraction Alg03 for Zooplank	-	0.500
ZALGFF04	Faecal fraction Alg04 for Zooplank	-	0.500
ZALGFF05	Faecal fraction Alg05 for Zooplank	-	0.500
ZALGFF06	Faecal fraction Alg06 for Zooplank	-	0.500
ZALGFF07	Faecal fraction Alg07 for Zooplank	-	0.500
ZALGFF08	Faecal fraction Alg08 for Zooplank	-	0.500
ZALGFF09	Faecal fraction Alg09 for Zooplank	-	0.500
ZALGFF10	Faecal fraction Alg10 for Zooplank	-	0.500
ZALGFF11	Faecal fraction Alg11 for Zooplank	-	0.500
ZALGFF12	Faecal fraction Alg12 for Zooplank	-	0.500
ZALGFF13	Faecal fraction Alg13 for Zooplank	-	0.500
ZALGFF14	Faecal fraction Alg14 for Zooplank	-	0.500
ZALGFF15	Faecal fraction Alg15 for Zooplank	-	0.500
ZALGFF16	Faecal fraction Alg16 for Zooplank	-	0.500
ZALGFF17	Faecal fraction Alg17 for Zooplank	-	0.500
ZALGFF18	Faecal fraction Alg18 for Zooplank	-	0.500
ZALGFF19	Faecal fraction Alg19 for Zooplank	-	0.500
ZALGFF20	Faecal fraction Alg20 for Zooplank	-	0.500
ZALGFF21	Faecal fraction Alg21 for Zooplank	-	0.500
ZALGFF22	Faecal fraction Alg22 for Zooplank	-	0.500
ZALGFF23	Faecal fraction Alg23 for Zooplank	-	0.500
ZALGFF24	Faecal fraction Alg24 for Zooplank	-	0.500
ZALGFF25	Faecal fraction Alg25 for Zooplank	-	0.500

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Process	Description	Unit	Default
ZALGFF26	Faecal fraction Alg26 for Zooplank	-	0.500
ZALGFF27	Faecal fraction Alg27 for Zooplank	-	0.500
ZALGFF28	Faecal fraction Alg28 for Zooplank	-	0.500
ZALGFF29	Faecal fraction Alg29 for Zooplank	-	0.500
ZALGFF30	Faecal fraction Alg30 for Zooplank	-	0.500
MALGFFGrn	Faecal fraction Greens for Mussel	-	0.500
MALGFFDiat	Faecal fraction Diatoms for Mussel	-	0.500
MALGFF01	Faecal fraction Alg01 for Mussel	-	0.500
MALGFF02	Faecal fraction Alg02 for Mussel	-	0.500
MALGFF03	Faecal fraction Alg03 for Mussel	-	0.500
MALGFF04	Faecal fraction Alg04 for Mussel	-	0.500
MALGFF05	Faecal fraction Alg05 for Mussel	-	0.500
MALGFF06	Faecal fraction Alg06 for Mussel	-	0.500
MALGFF07	Faecal fraction Alg07 for Mussel	-	0.500
MALGFF08	Faecal fraction Alg08 for Mussel	-	0.500
MALGFF09	Faecal fraction Alg09 for Mussel	-	0.500
MALGFF10	Faecal fraction Alg10 for Mussel	-	0.500
MALGFF11	Faecal fraction Alg11 for Mussel	-	0.500
MALGFF12	Faecal fraction Alg12 for Mussel	-	0.500
MALGFF13	Faecal fraction Alg13 for Mussel	-	0.500
MALGFF14	Faecal fraction Alg14 for Mussel	-	0.500
MALGFF15	Faecal fraction Alg15 for Mussel	-	0.500
MALGFF16	Faecal fraction Alg16 for Mussel	-	0.500
MALGFF17	Faecal fraction Alg17 for Mussel	-	0.500
MALGFF18	Faecal fraction Alg18 for Mussel	-	0.500
MALGFF19	Faecal fraction Alg19 for Mussel	-	0.500
MALGFF20	Faecal fraction Alg20 for Mussel	-	0.500
MALGFF21	Faecal fraction Alg21 for Mussel	-	0.500
MALGFF22	Faecal fraction Alg22 for Mussel	-	0.500
MALGFF23	Faecal fraction Alg23 for Mussel	-	0.500
MALGFF24	Faecal fraction Alg24 for Mussel	-	0.500
MALGFF25	Faecal fraction Alg25 for Mussel	-	0.500
MALGFF26	Faecal fraction Alg26 for Mussel	-	0.500
MALGFF27	Faecal fraction Alg27 for Mussel	-	0.500
MALGFF28	Faecal fraction Alg28 for Mussel	-	0.500
MALGFF29	Faecal fraction Alg29 for Mussel	-	0.500
MALGFF30	Faecal fraction Alg30 for Mussel	-	0.500
G3ALGFFGrn	Faecal fraction Greens for grazer 3	-	0.500
G3ALGFFDiat	Faecal fraction Diatoms for grazer 3	-	0.500
G3ALGFF01	Faecal fraction Alg01 for grazer 3	-	0.500
G3ALGFF02	Faecal fraction Alg02 for grazer 3	-	0.500
G3ALGFF03	Faecal fraction Alg03 for grazer 3	-	0.500
G3ALGFF04	Faecal fraction Alg04 for grazer 3	-	0.500
G3ALGFF05	Faecal fraction Alg05 for grazer 3	-	0.500
G3ALGFF06	Faecal fraction Alg06 for grazer 3	-	0.500
G3ALGFF07	Faecal fraction Alg07 for grazer 3	-	0.500
G3ALGFF08	Faecal fraction Alg08 for grazer 3	-	0.500
G3ALGFF09	Faecal fraction Alg09 for grazer 3	-	0.500
G3ALGFF10	Faecal fraction Alg10 for grazer 3	-	0.500
G3ALGFF11	Faecal fraction Alg11 for grazer 3	-	0.500
G3ALGFF12	Faecal fraction Alg12 for grazer 3	-	0.500
G3ALGFF13	Faecal fraction Alg13 for grazer 3	-	0.500
G3ALGFF14	Faecal fraction Alg14 for grazer 3	-	0.500
G3ALGFF15	Faecal fraction Alg15 for grazer 3	-	0.500
G3ALGFF16	Faecal fraction Alg16 for grazer 3	-	0.500
G3ALGFF17	Faecal fraction Alg17 for grazer 3	-	0.500
G3ALGFF18	Faecal fraction Alg18 for grazer 3	-	0.500
G3ALGFF19	Faecal fraction Alg19 for grazer 3	-	0.500
G3ALGFF20	Faecal fraction Alg20 for grazer 3	-	0.500
G3ALGFF21	Faecal fraction Alg21 for grazer 3	-	0.500
G3ALGFF22	Faecal fraction Alg22 for grazer 3	-	0.500
G3ALGFF23	Faecal fraction Alg23 for grazer 3	-	0.500
G3ALGFF24	Faecal fraction Alg24 for grazer 3	-	0.500
G3ALGFF25	Faecal fraction Alg25 for grazer 3	-	0.500
G3ALGFF26	Faecal fraction Alg26 for grazer 3	-	0.500
G3ALGFF27	Faecal fraction Alg27 for grazer 3	-	0.500
G3ALGFF28	Faecal fraction Alg28 for grazer 3	-	0.500
G3ALGFF29	Faecal fraction Alg29 for grazer 3	-	0.500
G3ALGFF30	Faecal fraction Alg30 for grazer 3	-	0.500
G4ALGFFGrn	Faecal fraction Greens for grazer 4	-	0.500
G4ALGFFDiat	Faecal fraction Diatoms for grazer 4	-	0.500

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
G4ALGFF01	Faecal fraction Alg01 for grazer 4	-	0.500
G4ALGFF02	Faecal fraction Alg02 for grazer 4	-	0.500
G4ALGFF03	Faecal fraction Alg03 for grazer 4	-	0.500
G4ALGFF04	Faecal fraction Alg04 for grazer 4	-	0.500
G4ALGFF05	Faecal fraction Alg05 for grazer 4	-	0.500
G4ALGFF06	Faecal fraction Alg06 for grazer 4	-	0.500
G4ALGFF07	Faecal fraction Alg07 for grazer 4	-	0.500
G4ALGFF08	Faecal fraction Alg08 for grazer 4	-	0.500
G4ALGFF09	Faecal fraction Alg09 for grazer 4	-	0.500
G4ALGFF10	Faecal fraction Alg10 for grazer 4	-	0.500
G4ALGFF11	Faecal fraction Alg11 for grazer 4	-	0.500
G4ALGFF12	Faecal fraction Alg12 for grazer 4	-	0.500
G4ALGFF13	Faecal fraction Alg13 for grazer 4	-	0.500
G4ALGFF14	Faecal fraction Alg14 for grazer 4	-	0.500
G4ALGFF15	Faecal fraction Alg15 for grazer 4	-	0.500
G4ALGFF16	Faecal fraction Alg16 for grazer 4	-	0.500
G4ALGFF17	Faecal fraction Alg17 for grazer 4	-	0.500
G4ALGFF18	Faecal fraction Alg18 for grazer 4	-	0.500
G4ALGFF19	Faecal fraction Alg19 for grazer 4	-	0.500
G4ALGFF20	Faecal fraction Alg20 for grazer 4	-	0.500
G4ALGFF21	Faecal fraction Alg21 for grazer 4	-	0.500
G4ALGFF22	Faecal fraction Alg22 for grazer 4	-	0.500
G4ALGFF23	Faecal fraction Alg23 for grazer 4	-	0.500
G4ALGFF24	Faecal fraction Alg24 for grazer 4	-	0.500
G4ALGFF25	Faecal fraction Alg25 for grazer 4	-	0.500
G4ALGFF26	Faecal fraction Alg26 for grazer 4	-	0.500
G4ALGFF27	Faecal fraction Alg27 for grazer 4	-	0.500
G4ALGFF28	Faecal fraction Alg28 for grazer 4	-	0.500
G4ALGFF29	Faecal fraction Alg29 for grazer 4	-	0.500
G4ALGFF30	Faecal fraction Alg30 for grazer 4	-	0.500
G5ALGFFGrn	Faecal fraction Greens for grazer 5	-	0.500
G5ALGFFDia	Faecal fraction Diatoms for grazer 5	-	0.500
G5ALGFF01	Faecal fraction Alg01 for grazer 5	-	0.500
G5ALGFF02	Faecal fraction Alg02 for grazer 5	-	0.500
G5ALGFF03	Faecal fraction Alg03 for grazer 5	-	0.500
G5ALGFF04	Faecal fraction Alg04 for grazer 5	-	0.500
G5ALGFF05	Faecal fraction Alg05 for grazer 5	-	0.500
G5ALGFF06	Faecal fraction Alg06 for grazer 5	-	0.500
G5ALGFF07	Faecal fraction Alg07 for grazer 5	-	0.500
G5ALGFF08	Faecal fraction Alg08 for grazer 5	-	0.500
G5ALGFF09	Faecal fraction Alg09 for grazer 5	-	0.500
G5ALGFF10	Faecal fraction Alg10 for grazer 5	-	0.500
G5ALGFF11	Faecal fraction Alg11 for grazer 5	-	0.500
G5ALGFF12	Faecal fraction Alg12 for grazer 5	-	0.500
G5ALGFF13	Faecal fraction Alg13 for grazer 5	-	0.500
G5ALGFF14	Faecal fraction Alg14 for grazer 5	-	0.500
G5ALGFF15	Faecal fraction Alg15 for grazer 5	-	0.500
G5ALGFF16	Faecal fraction Alg16 for grazer 5	-	0.500
G5ALGFF17	Faecal fraction Alg17 for grazer 5	-	0.500
G5ALGFF18	Faecal fraction Alg18 for grazer 5	-	0.500
G5ALGFF19	Faecal fraction Alg19 for grazer 5	-	0.500
G5ALGFF20	Faecal fraction Alg20 for grazer 5	-	0.500
G5ALGFF21	Faecal fraction Alg21 for grazer 5	-	0.500
G5ALGFF22	Faecal fraction Alg22 for grazer 5	-	0.500
G5ALGFF23	Faecal fraction Alg23 for grazer 5	-	0.500
G5ALGFF24	Faecal fraction Alg24 for grazer 5	-	0.500
G5ALGFF25	Faecal fraction Alg25 for grazer 5	-	0.500
G5ALGFF26	Faecal fraction Alg26 for grazer 5	-	0.500
G5ALGFF27	Faecal fraction Alg27 for grazer 5	-	0.500
G5ALGFF28	Faecal fraction Alg28 for grazer 5	-	0.500
G5ALGFF29	Faecal fraction Alg29 for grazer 5	-	0.500
G5ALGFF30	Faecal fraction Alg30 for grazer 5	-	0.500
COXPart	critical oxygen concentration for partitioning	g/m ³	0.100
SWTrCoef	switch for calculation method	-	1.000
Mol153	molecular weight 153	g/mol	360.880
LDif153	molecular diffusion constant 153 in water	(m ² d)	0.000
GDif153	molecular diffusion constant 153 in gas	(m ² d)	1.000
Atm153	concentration 153 in atmosphere	g/m ³	0.000
HeTref153	Henry's constant 153 at 20 °C	Pa/m ³ /mol	9.900
Tref153	reference temperature for He of 153	°C	20.000
TFHe153	thermodynamic const. in fT Henry 153	-	20.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
MolHCB	molecular weight HCB	g/mol	284.800
LDifHCB	molecular diffusion constant HCB in water	(m ² d)	0.000
GDifHCB	molecular diffusion constant HCB in gas	(m ² d)	1.000
AtmHCB	concentration HCB in atmosphere	g/m ³	0.000
HeTrefHCB	Henry's constant HCB at 20 °C	Pa/m ³ /mol	70.000
TrefHCB	reference temperature for He of HCB	°C	20.000
TFHeHCB	thermodynamic const. in fT Henry HCB	-	23.000
MolHCH	molecular weight HCH	g/mol	290.850
LDifHCH	molecular diffusion constant HCH in water	(m ² d)	0.000
GDifHCH	molecular diffusion constant HCH in gas	(m ² d)	1.000
AtmHCH	concentration HCH in atmosphere	g/m ³	0.000
HeTrefHCH	Henry's constant HCH at 20 °C	Pa/m ³ /mol	0.130
TrefHCH	reference temperature for He of HCH	°C	20.000
TFHeHCH	thermodynamic const. in fT Henry HCH	-	20.000
MolFlu	molecular weight Flu	g/mol	202.260
LDifFlu	molecular diffusion constant Flu in water	(m ² d)	0.000
GDifFlu	molecular diffusion constant Flu in gas	(m ² d)	1.000
AtmFlu	concentration Flu in atmosphere	g/m ³	0.000
HeTrefFlu	Henry's constant Flu at 20 °C	Pa/m ³ /mol	0.130
TrefFlu	reference temperature for He of Flu	°C	20.000
TFHeFlu	thermodynamic const. in fT Henry Flu	-	22.200
MolBaP	molecular weight BaP	g/mol	252.310
LDifBaP	molecular diffusion constant BaP in water	(m ² d)	0.000
GDifBaP	molecular diffusion constant BaP in gas	(m ² d)	1.000
AtmBaP	concentration BaP in atmosphere	g/m ³	0.000
HeTrefBaP	Henry's constant BaP at 20 °C	Pa/m ³ /mol	0.009
TrefBaP	reference temperature for He of BaP	°C	20.000
TFHeBaP	thermodynamic const. in fT Henry BaP	-	12.000
MolAtr	molecular weight Atrazine	g/mol	214.680
LDifAtr	molecular diffusion constant Atrazine in water	(m ² d)	0.000
GDifAtr	molecular diffusion constant Atrazine in gas	(m ² d)	1.000
AtmAtr	concentration Atrazine in atmosphere	g/m ³	0.000
HeTrefAtr	Henry's constant Atrazine at 20 °C	Pa/m ³ /mol	0.000
TrefAtr	reference temperature for He of Atrazine	°C	20.000
TFHeAtr	thermodynamic const. in fT Henry Atrazine	-	20.000
MolMef	molecular weight Mef	g/mol	224.100
LDifMef	molecular diffusion constant Mef in water	(m ² d)	0.000
GDifMef	molecular diffusion constant Mef in gas	(m ² d)	1.000
AtmMef	concentration Mef in atmosphere	g/m ³	0.000
HeTrefMef	Henry's constant Mef at 20 °C	Pa/m ³ /mol	0.000
TrefMef	reference temperature for He of Mef	°C	20.000
TFHeMef	thermodynamic const. in fT Henry Mef	-	20.000
MolDiu	molecular weight Diu	g/mol	233.100
LDifDiu	molecular diffusion constant Diu in water	(m ² d)	0.000
GDifDiu	molecular diffusion constant Diu in gas	(m ² d)	1.000
AtmDiu	concentration Diu in atmosphere	g/m ³	0.000
HeTrefDiu	Henry's constant Diu at 20 °C	Pa/m ³ /mol	0.001
TrefDiu	reference temperature for He of Diu	°C	20.000
TFHeDiu	thermodynamic const. in fT Henry Diu	-	20.000
ZLoss153	zeroth-order decay flux 153	g/m ³ /d	0.000
Rc153	first-order loss rate 153	1/d	0.000
Tc153	temperature coefficient loss 153 in water	-	1.070
CTLoss	critical temperature for loss processes	°C	2.000
SWVnDegMP	option for selection old0 or new1 version	-	0.000
SWDeg153	deg.frac.153: 0=tot 1=dis 2=dis+DOC	-	0.000
RcDegO153	first-order rate const. degr. 153 oxid. cond.	1/d	0.000
RcDegR153	first-order rate const. degr. 153 red. cond.	1/d	0.000
ZLossHCB	zeroth-order decay flux HCB	g/m ³ /d	0.000
RcHCB	first-order loss rate HCB	1/d	0.000
TcHCB	temperature coefficient loss HCB in water	-	1.070
SWDegHCB	deg.frac.HCB: 0=tot 1=dis 2=dis+DOC	-	0.000
RcDegOHCB	first-order rate const. degr. HCB oxid. cond.	1/d	0.000
RcDegRHCB	first-order rate const. degr. HCB red. cond.	1/d	0.000
ZLossHCH	zeroth-order decay flux HCH	g/m ³ /d	0.000
RcHCH	first-order loss rate HCH	1/d	0.002
TcHCH	temperature coefficient loss HCH in water	-	1.070
SWDegHCH	deg.frac.HCH: 0=tot 1=dis 2=dis+DOC	-	0.000
RcDegOHCH	first-order rate const. degr. HCH oxid. cond.	1/d	0.000
RcDegRHCH	first-order rate const. degr. HCH red. cond.	1/d	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
ZLossFlu	zeroth-order decay flux Flu	g/m ³ /d	0.000
RcFlu	first-order loss rate Flu	1/d	0.001
TcFlu	temperature coefficient loss Flu in water	-	1.070
SWDegFlu	deg.frac.Flu: 0=tot 1=dis 2=dis+DOC	-	0.000
RcDegOFlu	first-order rate const. degr. Flu oxid. cond.	1/d	0.000
RcDegRFlu	first-order rate const. degr. Flu red. cond.	1/d	0.000
ZLossBaP	zeroth-order decay flux BaP	g/m ³ /d	0.000
RcBaP	first-order loss rate BaP	1/d	0.000
TcBaP	temperature coefficient loss BaP in water	-	1.070
SWDegBaP	deg.frac.BaP: 0=tot 1=dis 2=dis+DOC	-	0.000
RcDegOBaP	first-order rate const. degr. BaP oxid. cond.	1/d	0.000
RcDegRBaP	first-order rate const. degr. BaP red. cond.	1/d	0.000
ZLossAtr	zeroth-order decay flux Atrazine	g/m ³ /d	0.000
RcAtr	first-order loss rate Atrazine	1/d	0.058
TcAtr	temperature coefficient loss Atrazine in water	-	1.070
SWDegAtr	deg.frac.Atr: 0=tot 1=dis 2=dis+DOC	-	0.000
RcDegOAtr	first-order rate const. degr. Atrazine oxid. cond.	1/d	0.000
RcDegRAtr	first-order rate const. degr. Atrazine red. cond.	1/d	0.000
ZLossMef	zeroth-order decay flux Mef	g/m ³ /d	0.000
RcMef	first-order loss rate Mef	1/d	0.050
TcMef	temperature coefficient loss Mef in water	-	1.070
SWDegMef	deg.frac.Mef: 0=tot 1=dis 2=dis+DOC	-	0.000
RcDegOMef	first-order rate const. degr. Mef oxid. cond.	1/d	0.000
RcDegRMef	first-order rate const. degr. Mef red. cond.	1/d	0.000
ZLossDiu	zeroth-order decay flux Diu	g/m ³ /d	0.000
RcDiu	first-order loss rate Diu	1/d	0.001
TcDiu	temperature coefficient loss Diu in water	-	1.070
SWDegDiu	deg.frac.Diu: 0=tot 1=dis 2=dis+DOC	-	0.000
RcDegODiu	first-order rate const. degr. Diu oxid. cond.	1/d	0.000
RcDegRDiu	first-order rate const. degr. Diu red. cond.	1/d	0.000
ZLoss153S1	zeroth-order decay flux 153 in layer S1	g/(m ² d)	0.000
Rc153S1	first-order loss rate 153 in layer S1	1/d	0.000
Tc153Sed	temperature coefficient loss 153 in sediment	-	1.000
ZLossHCBs1	zeroth-order decay flux HCB in layer S1	g/(m ² d)	0.000
RcHCBs1	first-order loss rate HCB in layer S1	1/d	0.001
TcHCBs1	temperature coefficient loss HCB in sediment	-	1.000
ZLossHCHs1	zeroth-order decay flux HCH in layer S1	g/(m ² d)	0.000
RcHCHs1	first-order loss rate HCH in layer S1	1/d	0.010
TcHCHs1	temperature coefficient loss HCH in sediment	-	1.000
ZLossFluS1	zeroth-order decay flux Flu in layer S1	g/(m ² d)	0.000
RcFluS1	first-order loss rate Flu in layer S1	1/d	0.000
TcFluS1	temperature coefficient loss Flu in sediment	-	1.000
ZLossBaPS1	zeroth-order decay flux BaP in layer S1	g/(m ² d)	0.000
RcBaPS1	first-order loss rate BaP in layer S1	1/d	0.000
TcBaPS1	temperature coefficient loss BaP in sediment	-	1.000
ZLossAtrS1	zeroth-order decay flux Atrazine in layer S1	g/(m ² d)	0.000
RcAtrS1	first-order loss rate Atrazine in layer S1	1/d	0.000
TcAtrS1	temperature coefficient loss Atrazine in sediment	-	1.000
ZLossMefS1	zeroth-order decay flux Mef in layer S1	g/(m ² d)	0.000
RcMefS1	first-order loss rate Mef in layer S1	1/d	0.000
TcMefS1	temperature coefficient loss Mef in sediment	-	1.000
ZLossDiuS1	zeroth-order decay flux Diu in layer S1	g/(m ² d)	0.000
RcDiuS1	first-order loss rate Diu in layer S1	1/d	0.000
TcDiuS1	temperature coefficient loss Diu in sediment	-	1.000
ZLoss153S2	zeroth-order decay flux 153 in layer S2	g/(m ² d)	0.000
Rc153S2	first-order loss rate 153 in layer S2	1/d	0.000
ZLossHCBs2	zeroth-order decay flux HCB in layer S2	g/(m ² d)	0.000
RcHCBs2	first-order loss rate HCB in layer S2	1/d	0.001
ZLossHCHs2	zeroth-order decay flux HCH in layer S2	g/(m ² d)	0.000
RcHCHs2	first-order loss rate HCH in layer S2	1/d	0.010
ZLossFluS2	zeroth-order decay flux Flu in layer S2	g/(m ² d)	0.000
RcFluS2	first-order loss rate Flu in layer S2	1/d	0.000
ZLossBaPS2	zeroth-order decay flux BaP in layer S2	g/(m ² d)	0.000
RcBaPS2	first-order loss rate BaP in layer S2	1/d	0.000
ZLossAtrS2	zeroth-order decay flux Atrazine in layer S2	g/(m ² d)	0.000
RcAtrS2	first-order loss rate Atrazine in layer S2	1/d	0.000
ZLossMefS2	zeroth-order decay flux Mef in layer S2	g/(m ² d)	0.000
RcMefS2	first-order loss rate Mef in layer S2	1/d	0.000
ZLossDiuS2	zeroth-order decay flux Diu in layer S2	g/(m ² d)	0.000
RcDiuS2	first-order loss rate Diu in layer S2	1/d	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
sw1AtmDCon	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2AtmDCon	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1AtmDIM1	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2AtmDIM1	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1AtmDIM2	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2AtmDIM2	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1AtmDIM3	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2AtmDIM3	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1DfwaIM1	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2DfwaIM1	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1DfwaIM2	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2DfwaIM2	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1DfwaIM3	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2DfwaIM3	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1AtmDNH4	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2AtmDNH4	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1AtmDNO3	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2AtmDNO3	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1AtmDPO4	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2AtmDPO4	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1AtmDSO4	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2AtmDSO4	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1AtmD153	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2AtmD153	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1AtmDHCB	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2AtmDHCB	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1AtmDHCH	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2AtmDHCH	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1AtmDFlu	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2AtmDFlu	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1AtmDBap	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2AtmDBap	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1AtmDAtr	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2AtmDAtr	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1AtmDMef	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2AtmDMef	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1AtmDDiu	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2AtmDDiu	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1AtmDCd	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2AtmDCd	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1AtmDCu	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2AtmDCu	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1AtmDZn	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2AtmDZn	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1AtmDHg	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2AtmDHg	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1AtmDNi	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2AtmDNi	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1AtmDPb	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2AtmDPb	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1AtmDCr	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2AtmDCr	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1AtmDAs	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2AtmDAs	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1AtmDVa	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2AtmDVa	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1DfwaNO3	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2DfwaNO3	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1DfwaNH4	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2DfwaNH4	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1DfwaPO4	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2DfwaPO4	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1DfwaSi	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2DfwaSi	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1DfwaSO4	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2DfwaSO4	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1Dfwa153	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2Dfwa153	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1DfwaHCB	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2DfwaHCB	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1DfwaHCH	load option 0=all, 1=top, 2=bottom segments	-	1.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
sw2DfwaHCH	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1DfwaFlu	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2DfwaFlu	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1DfwaBap	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2DfwaBap	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1DfwaAtr	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2DfwaAtr	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1DfwaMef	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2DfwaMef	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1DfwaDiu	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2DfwaDiu	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1DfwaCd	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2DfwaCd	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1DfwaCu	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2DfwaCu	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1DfwaZn	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2DfwaZn	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1DfwaHg	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2DfwaHg	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1DfwaNi	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2DfwaNi	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1DfwaPb	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2DfwaPb	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1DfwaCr	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2DfwaCr	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1DfwaAs	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2DfwaAs	maximise withdrawal to mass 0=no, 1=yes	-	0.000
sw1DfwaVa	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2DfwaVa	maximise withdrawal to mass 0=no, 1=yes	-	0.000
NH3_sw	NH3 calculation method 1=Reprofunc, 2=Millero	-	2.000
KNH3rf1a	K NH3/NH4 repro-function 1 coeff a	log(mol l)	-10.051
KNH3rf1b	K NH3/NH4 repro-function 1 coeff b	log(mol l)/°C	0.032
fTEWORBOD	TEWOR production flux of CBOD5_2	gO2/m ³ /d	0.000
fTEWORBOD2	TEWOR production flux of CBOD5_2	gO2/m ³ /d	0.000
fTEWORBOD3	TEWOR production flux of CBOD5_3	gO2/m ³ /d	0.000
fTEWORCOD	TEWOR production flux of COD_Cr	gO2/m ³ /d	0.000
fTEWOROXY	TEWOR production flux of OXY	gO2/m ³ /d	0.000
fTEWORORGN	TEWOR production flux of Org-N	gN/m ³ /d	0.000
fTEWORNH4	TEWOR production flux of NH4	gN/m ³ /d	0.000
fTEWORNH3	TEWOR production flux of NO3	gN/m ³ /d	0.000
fTEWOROON	TEWOR production flux of OON	gN/m ³ /d	0.000
fTEWORECol	TEWOR production flux of EColi	MPN/ml/d	0.000
XDOCOMP	efficiency DOC relative to POC for OMP	-	0.180
IKpocOMPS1	log partition coefficient OMP-POC in S1	l/kgC	7.300
IKphyOMPS1	log partition coefficient OMP-PHYT in S1	l/kgC	7.300
HLTAdsOMPS	half-life time non-eq. adsorption OMP in Sedim	d	0.000
HLTDesOMPS	half-life time non-eq. desorption OMP in Sedim	d	0.000
IKpocOMPS2	log partition coefficient OMP-POC in S2	l/kgC	7.300
IKphyOMPS2	log partition coefficient OMP-PHYT in S2	l/kgC	7.300
IKpocOMP	log partition coefficient OMP-POC	l/kgC	7.300
IKphyOMP	log partition coefficient OMP-PHYT	l/kgC	7.300
HLTAdsOMP	half-life time non-eq. adsorption OMP	d	0.000
HLTDesOMP	half-life time non-eq. desorption OMP	d	0.000
FrOMPPOC	fraction OMP adsorbed to POC	-	0.000
FrOMPPHYT	fraction OMP adsorbed to PHYT	-	0.000
QOMPPHYT	quality PHYT for OMP in water column	gOMP/gC	0.000
MolOMP	molecular weight OMP	g/mol	252.310
LDifOMP	mol. diffusion coeff. OMP in water	(m ² d)	0.000
GDifOMP	mol. diffusion coeff. OMP in gas	(m ² d)	1.000
AtmOMP	concentration OMP in atmosphere	g/m ³	0.000
HeTrefOMP	Henry's constant OMP at Tref	Pa/m ³ /mol	0.009
TrefOMP	reference temperature for He of OMP	°C	20.000
TFHeOMP	thermodynamic const. in fT Henry OMP	-	12.000
ZLossOMP	zeroth-order decay flux OMP	g/m ³ /d	0.000
RcOMP	first-order rate const. loss OMP	1/d	0.000
TcOMP	temperature coefficient loss OMP in water	-	1.070
SWDegOMP	deg.frac.OMP: 0=tot 1=dis 2=dis+DOC	-	0.000
RcDegOOMP	first-order rate const. degr. OMP oxid. cond.	1/d	0.000
RcDegROMP	first-order rate const. degr. OMP red. cond.	1/d	0.000
ZLossOMPS1	zeroth-order decay flux OMP in S1	g/(m ² d)	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
RcOMPS1	first-order rate const. loss OMP in S1	1/d	0.000
TcOMPSed	temp. coefficient loss OMP in sediment	-	1.000
ZLossOMPS2	zeroth-order decay flux OMP in S2	g/(m ² d)	0.000
RcOMPS2	first-order rate const. loss OMP in S2	1/d	0.000
sw1AtmDOMP	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2AtmDOMP	maximise withdrawel to mass 0=no, 1=yes	-	0.000
sw1DfwaOMP	load option 0=all, 1=top, 2=bottom segments	-	1.000
sw2DfwaOMP	maximise withdrawel to mass 0=no, 1=yes	-	0.000
NoStruc	number of structures	-	0.000
SWdrear	switch for gameson 0 or hybride 1	-	0.000
DischSt1	discharge at structure 1	m ³ /s	0.000
WtLvLSt1	water level left of structure 1	m	0.000
WtLvRSt1	water level right of structure 1	m	0.000
SegmLSt1	segment number left of structure 1	-	0.000
SegmRSt1	segment number right of structure 1	-	0.000
CoefbSt1	dam reaeration coefficient of structure 1	-	0.000
WidthSt1	width of structure 1	m	0.000
DischSt2	discharge at structure 2	m ³ /s	0.000
WtLvLSt2	water level left of structure 2	m	0.000
WtLvRSt2	water level right of structure 2	m	0.000
SegmLSt2	segment number left of structure 2	-	0.000
SegmRSt2	segment number right of structure 2	-	0.000
CoefbSt2	dam reaeration coefficient of structure 2	-	0.000
WidthSt2	width of structure 2	m	0.000
DischSt3	discharge at structure 3	m ³ /s	0.000
WtLvLSt3	water level left of structure 3	m	0.000
WtLvRSt3	water level right of structure 3	m	0.000
SegmLSt3	segment number left of structure 3	-	0.000
SegmRSt3	segment number right of structure 3	-	0.000
CoefbSt3	dam reaeration coefficient of structure 3	-	0.000
WidthSt3	width of structure 3	m	0.000
DischSt4	discharge at structure 4	m ³ /s	0.000
WtLvLSt4	water level left of structure 4	m	0.000
WtLvRSt4	water level right of structure 4	m	0.000
SegmLSt4	segment number left of structure 4	-	0.000
SegmRSt4	segment number right of structure 4	-	0.000
CoefbSt4	dam reaeration coefficient of structure 4	-	0.000
WidthSt4	width of structure 4	m	0.000
DischSt5	discharge at structure 5	m ³ /s	0.000
WtLvLSt5	water level left of structure 5	m	0.000
WtLvRSt5	water level right of structure 5	m	0.000
SegmLSt5	segment number left of structure 5	-	0.000
SegmRSt5	segment number right of structure 5	-	0.000
CoefbSt5	dam reaeration coefficient of structure 5	-	0.000
WidthSt5	width of structure 5	m	0.000
DischSt6	discharge at structure 6	m ³ /s	0.000
WtLvLSt6	water level left of structure 6	m	0.000
WtLvRSt6	water level right of structure 6	m	0.000
SegmLSt6	segment number left of structure 6	-	0.000
SegmRSt6	segment number right of structure 6	-	0.000
CoefbSt6	dam reaeration coefficient of structure 6	-	0.000
WidthSt6	width of structure 6	m	0.000
DischSt7	discharge at structure 7	m ³ /s	0.000
WtLvLSt7	water level left of structure 7	m	0.000
WtLvRSt7	water level right of structure 7	m	0.000
SegmLSt7	segment number left of structure 7	-	0.000
SegmRSt7	segment number right of structure 7	-	0.000
CoefbSt7	dam reaeration coefficient of structure 7	-	0.000
WidthSt7	width of structure 7	m	0.000
DischSt8	discharge at structure 8	m ³ /s	0.000
WtLvLSt8	water level left of structure 8	m	0.000
WtLvRSt8	water level right of structure 8	m	0.000
SegmLSt8	segment number left of structure 8	-	0.000
SegmRSt8	segment number right of structure 8	-	0.000
CoefbSt8	dam reaeration coefficient of structure 8	-	0.000
WidthSt8	width of structure 8	m	0.000
DischSt9	discharge at structure 9	m ³ /s	0.000
WtLvLSt9	water level left of structure 9	m	0.000
WtLvRSt9	water level right of structure 9	m	0.000
SegmLSt9	segment number left of structure 9	-	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
SegmRSt9	segment number right of structure 9	-	0.000
CoefbSt9	dam reaeration coefficient of structure 9	-	0.000
WidthSt9	width of structure 9	m	0.000
DischSt10	discharge at structure 10	m ³ /s	0.000
WtLvLSt10	water level left of structure 10	m	0.000
WtLvRSt10	water level right of structure 10	m	0.000
SegmLSt10	segment number left of structure 10	-	0.000
SegmRSt10	segment number right of structure 10	-	0.000
CoefbSt10	dam reaeration coefficient of structure 10	-	0.000
WidthSt10	width of structure 10	m	0.000
DischSt11	discharge at structure 11	m ³ /s	0.000
WtLvLSt11	water level left of structure 11	m	0.000
WtLvRSt11	water level right of structure 11	m	0.000
SegmLSt11	segment number left of structure 11	-	0.000
SegmRSt11	segment number right of structure 11	-	0.000
CoefbSt11	dam reaeration coefficient of structure 11	-	0.000
WidthSt11	width of structure 11	m	0.000
DischSt12	discharge at structure 12	m ³ /s	0.000
WtLvLSt12	water level left of structure 12	m	0.000
WtLvRSt12	water level right of structure 12	m	0.000
SegmLSt12	segment number left of structure 12	-	0.000
SegmRSt12	segment number right of structure 12	-	0.000
CoefbSt12	dam reaeration coefficient of structure 12	-	0.000
WidthSt12	width of structure 12	m	0.000
DischSt13	discharge at structure 13	m ³ /s	0.000
WtLvLSt13	water level left of structure 13	m	0.000
WtLvRSt13	water level right of structure 13	m	0.000
SegmLSt13	segment number left of structure 13	-	0.000
SegmRSt13	segment number right of structure 13	-	0.000
CoefbSt13	dam reaeration coefficient of structure 13	-	0.000
WidthSt13	width of structure 13	m	0.000
DischSt14	discharge at structure 14	m ³ /s	0.000
WtLvLSt14	water level left of structure 14	m	0.000
WtLvRSt14	water level right of structure 14	m	0.000
SegmLSt14	segment number left of structure 14	-	0.000
SegmRSt14	segment number right of structure 14	-	0.000
CoefbSt14	dam reaeration coefficient of structure 14	-	0.000
WidthSt14	width of structure 14	m	0.000
DischSt15	discharge at structure 15	m ³ /s	0.000
WtLvLSt15	water level left of structure 15	m	0.000
WtLvRSt15	water level right of structure 15	m	0.000
SegmLSt15	segment number left of structure 15	-	0.000
SegmRSt15	segment number right of structure 15	-	0.000
CoefbSt15	dam reaeration coefficient of structure 15	-	0.000
WidthSt15	width of structure 15	m	0.000
DischSt16	discharge at structure 16	m ³ /s	0.000
WtLvLSt16	water level left of structure 16	m	0.000
WtLvRSt16	water level right of structure 16	m	0.000
SegmLSt16	segment number left of structure 16	-	0.000
SegmRSt16	segment number right of structure 16	-	0.000
CoefbSt16	dam reaeration coefficient of structure 16	-	0.000
WidthSt16	width of structure 16	m	0.000
DischSt17	discharge at structure 17	m ³ /s	0.000
WtLvLSt17	water level left of structure 17	m	0.000
WtLvRSt17	water level right of structure 17	m	0.000
SegmLSt17	segment number left of structure 17	-	0.000
SegmRSt17	segment number right of structure 17	-	0.000
CoefbSt17	dam reaeration coefficient of structure 17	-	0.000
WidthSt17	width of structure 17	m	0.000
DischSt18	discharge at structure 18	m ³ /s	0.000
WtLvLSt18	water level left of structure 18	m	0.000
WtLvRSt18	water level right of structure 18	m	0.000
SegmLSt18	segment number left of structure 18	-	0.000
SegmRSt18	segment number right of structure 18	-	0.000
CoefbSt18	dam reaeration coefficient of structure 18	-	0.000
WidthSt18	width of structure 18	m	0.000
DischSt19	discharge at structure 19	m ³ /s	0.000
WtLvLSt19	water level left of structure 19	m	0.000
WtLvRSt19	water level right of structure 19	m	0.000
SegmLSt19	segment number left of structure 19	-	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
SegmRSt19	segment number right of structure 19	-	0.000
CoefbSt19	dam reaeration coefficient of structure 19	-	0.000
WidthSt19	width of structure 19	m	0.000
DischSt20	discharge at structure 20	m ³ /s	0.000
WtLvLSt20	water level left of structure 20	m	0.000
WtLvRSt20	water level right of structure 20	m	0.000
SegmLSt20	segment number left of structure 20	-	0.000
SegmRSt20	segment number right of structure 20	-	0.000
CoefbSt20	dam reaeration coefficient of structure 20	-	0.000
WidthSt20	width of structure 20	m	0.000
DischSt21	discharge at structure 21	m ³ /s	0.000
WtLvLSt21	water level left of structure 21	m	0.000
WtLvRSt21	water level right of structure 21	m	0.000
SegmLSt21	segment number left of structure 21	-	0.000
SegmRSt21	segment number right of structure 21	-	0.000
CoefbSt21	dam reaeration coefficient of structure 21	-	0.000
WidthSt21	width of structure 21	m	0.000
DischSt22	discharge at structure 22	m ³ /s	0.000
WtLvLSt22	water level left of structure 22	m	0.000
WtLvRSt22	water level right of structure 22	m	0.000
SegmLSt22	segment number left of structure 22	-	0.000
SegmRSt22	segment number right of structure 22	-	0.000
CoefbSt22	dam reaeration coefficient of structure 22	-	0.000
WidthSt22	width of structure 22	m	0.000
DischSt23	discharge at structure 23	m ³ /s	0.000
WtLvLSt23	water level left of structure 23	m	0.000
WtLvRSt23	water level right of structure 23	m	0.000
SegmLSt23	segment number left of structure 23	-	0.000
SegmRSt23	segment number right of structure 23	-	0.000
CoefbSt23	dam reaeration coefficient of structure 23	-	0.000
WidthSt23	width of structure 23	m	0.000
DischSt24	discharge at structure 24	m ³ /s	0.000
WtLvLSt24	water level left of structure 24	m	0.000
WtLvRSt24	water level right of structure 24	m	0.000
SegmLSt24	segment number left of structure 24	-	0.000
SegmRSt24	segment number right of structure 24	-	0.000
CoefbSt24	dam reaeration coefficient of structure 24	-	0.000
WidthSt24	width of structure 24	m	0.000
DischSt25	discharge at structure 25	m ³ /s	0.000
WtLvLSt25	water level left of structure 25	m	0.000
WtLvRSt25	water level right of structure 25	m	0.000
SegmLSt25	segment number left of structure 25	-	0.000
SegmRSt25	segment number right of structure 25	-	0.000
CoefbSt25	dam reaeration coefficient of structure 25	-	0.000
WidthSt25	width of structure 25	m	0.000
DischSt26	discharge at structure 26	m ³ /s	0.000
WtLvLSt26	water level left of structure 26	m	0.000
WtLvRSt26	water level right of structure 26	m	0.000
SegmLSt26	segment number left of structure 26	-	0.000
SegmRSt26	segment number right of structure 26	-	0.000
CoefbSt26	dam reaeration coefficient of structure 26	-	0.000
WidthSt26	width of structure 26	m	0.000
DischSt27	discharge at structure 27	m ³ /s	0.000
WtLvLSt27	water level left of structure 27	m	0.000
WtLvRSt27	water level right of structure 27	m	0.000
SegmLSt27	segment number left of structure 27	-	0.000
SegmRSt27	segment number right of structure 27	-	0.000
CoefbSt27	dam reaeration coefficient of structure 27	-	0.000
WidthSt27	width of structure 27	m	0.000
DischSt28	discharge at structure 28	m ³ /s	0.000
WtLvLSt28	water level left of structure 28	m	0.000
WtLvRSt28	water level right of structure 28	m	0.000
SegmLSt28	segment number left of structure 28	-	0.000
SegmRSt28	segment number right of structure 28	-	0.000
CoefbSt28	dam reaeration coefficient of structure 28	-	0.000
WidthSt28	width of structure 28	m	0.000
DischSt29	discharge at structure 29	m ³ /s	0.000
WtLvLSt29	water level left of structure 29	m	0.000
WtLvRSt29	water level right of structure 29	m	0.000
SegmLSt29	segment number left of structure 29	-	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
SegmRSt29	segment number right of structure 29	-	0.000
CoefbSt29	dam reaeration coefficient of structure 29	-	0.000
WidthSt29	width of structure 29	m	0.000
DischSt30	discharge at structure 30	m ³ /s	0.000
WtLvLSt30	water level left of structure 30	m	0.000
WtLvRSt30	water level right of structure 30	m	0.000
SegmLSt30	segment number left of structure 30	-	0.000
SegmRSt30	segment number right of structure 30	-	0.000
CoefbSt30	dam reaeration coefficient of structure 30	-	0.000
WidthSt30	width of structure 30	m	0.000
DischSt31	discharge at structure 31	m ³ /s	0.000
WtLvLSt31	water level left of structure 31	m	0.000
WtLvRSt31	water level right of structure 31	m	0.000
SegmLSt31	segment number left of structure 31	-	0.000
SegmRSt31	segment number right of structure 31	-	0.000
CoefbSt31	dam reaeration coefficient of structure 31	-	0.000
WidthSt31	width of structure 31	m	0.000
DischSt32	discharge at structure 32	m ³ /s	0.000
WtLvLSt32	water level left of structure 32	m	0.000
WtLvRSt32	water level right of structure 32	m	0.000
SegmLSt32	segment number left of structure 32	-	0.000
SegmRSt32	segment number right of structure 32	-	0.000
CoefbSt32	dam reaeration coefficient of structure 32	-	0.000
WidthSt32	width of structure 32	m	0.000
DischSt33	discharge at structure 33	m ³ /s	0.000
WtLvLSt33	water level left of structure 33	m	0.000
WtLvRSt33	water level right of structure 33	m	0.000
SegmLSt33	segment number left of structure 33	-	0.000
SegmRSt33	segment number right of structure 33	-	0.000
CoefbSt33	dam reaeration coefficient of structure 33	-	0.000
WidthSt33	width of structure 33	m	0.000
DischSt34	discharge at structure 34	m ³ /s	0.000
WtLvLSt34	water level left of structure 34	m	0.000
WtLvRSt34	water level right of structure 34	m	0.000
SegmLSt34	segment number left of structure 34	-	0.000
SegmRSt34	segment number right of structure 34	-	0.000
CoefbSt34	dam reaeration coefficient of structure 34	-	0.000
WidthSt34	width of structure 34	m	0.000
DischSt35	discharge at structure 35	m ³ /s	0.000
WtLvLSt35	water level left of structure 35	m	0.000
WtLvRSt35	water level right of structure 35	m	0.000
SegmLSt35	segment number left of structure 35	-	0.000
SegmRSt35	segment number right of structure 35	-	0.000
CoefbSt35	dam reaeration coefficient of structure 35	-	0.000
WidthSt35	width of structure 35	m	0.000
DischSt36	discharge at structure 36	m ³ /s	0.000
WtLvLSt36	water level left of structure 36	m	0.000
WtLvRSt36	water level right of structure 36	m	0.000
SegmLSt36	segment number left of structure 36	-	0.000
SegmRSt36	segment number right of structure 36	-	0.000
CoefbSt36	dam reaeration coefficient of structure 36	-	0.000
WidthSt36	width of structure 36	m	0.000
DischSt37	discharge at structure 37	m ³ /s	0.000
WtLvLSt37	water level left of structure 37	m	0.000
WtLvRSt37	water level right of structure 37	m	0.000
SegmLSt37	segment number left of structure 37	-	0.000
SegmRSt37	segment number right of structure 37	-	0.000
CoefbSt37	dam reaeration coefficient of structure 37	-	0.000
WidthSt37	width of structure 37	m	0.000
DischSt38	discharge at structure 38	m ³ /s	0.000
WtLvLSt38	water level left of structure 38	m	0.000
WtLvRSt38	water level right of structure 38	m	0.000
SegmLSt38	segment number left of structure 38	-	0.000
SegmRSt38	segment number right of structure 38	-	0.000
CoefbSt38	dam reaeration coefficient of structure 38	-	0.000
WidthSt38	width of structure 38	m	0.000
DischSt39	discharge at structure 39	m ³ /s	0.000
WtLvLSt39	water level left of structure 39	m	0.000
WtLvRSt39	water level right of structure 39	m	0.000
SegmLSt39	segment number left of structure 39	-	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
SegmRSt39	segment number right of structure 39	-	0.000
CoefbSt39	dam reaeration coefficient of structure 39	-	0.000
WidthSt39	width of structure 39	m	0.000
DischSt40	discharge at structure 40	m ³ /s	0.000
WtLvLSt40	water level left of structure 40	m	0.000
WtLvRSt40	water level right of structure 40	m	0.000
SegmLSt40	segment number left of structure 40	-	0.000
SegmRSt40	segment number right of structure 40	-	0.000
CoefbSt40	dam reaeration coefficient of structure 40	-	0.000
WidthSt40	width of structure 40	m	0.000
DischSt41	discharge at structure 41	m ³ /s	0.000
WtLvLSt41	water level left of structure 41	m	0.000
WtLvRSt41	water level right of structure 41	m	0.000
SegmLSt41	segment number left of structure 41	-	0.000
SegmRSt41	segment number right of structure 41	-	0.000
CoefbSt41	dam reaeration coefficient of structure 41	-	0.000
WidthSt41	width of structure 41	m	0.000
DischSt42	discharge at structure 42	m ³ /s	0.000
WtLvLSt42	water level left of structure 42	m	0.000
WtLvRSt42	water level right of structure 42	m	0.000
SegmLSt42	segment number left of structure 42	-	0.000
SegmRSt42	segment number right of structure 42	-	0.000
CoefbSt42	dam reaeration coefficient of structure 42	-	0.000
WidthSt42	width of structure 42	m	0.000
DischSt43	discharge at structure 43	m ³ /s	0.000
WtLvLSt43	water level left of structure 43	m	0.000
WtLvRSt43	water level right of structure 43	m	0.000
SegmLSt43	segment number left of structure 43	-	0.000
SegmRSt43	segment number right of structure 43	-	0.000
CoefbSt43	dam reaeration coefficient of structure 43	-	0.000
WidthSt43	width of structure 43	m	0.000
DischSt44	discharge at structure 44	m ³ /s	0.000
WtLvLSt44	water level left of structure 44	m	0.000
WtLvRSt44	water level right of structure 44	m	0.000
SegmLSt44	segment number left of structure 44	-	0.000
SegmRSt44	segment number right of structure 44	-	0.000
CoefbSt44	dam reaeration coefficient of structure 44	-	0.000
WidthSt44	width of structure 44	m	0.000
DischSt45	discharge at structure 45	m ³ /s	0.000
WtLvLSt45	water level left of structure 45	m	0.000
WtLvRSt45	water level right of structure 45	m	0.000
SegmLSt45	segment number left of structure 45	-	0.000
SegmRSt45	segment number right of structure 45	-	0.000
CoefbSt45	dam reaeration coefficient of structure 45	-	0.000
WidthSt45	width of structure 45	m	0.000
DischSt46	discharge at structure 46	m ³ /s	0.000
WtLvLSt46	water level left of structure 46	m	0.000
WtLvRSt46	water level right of structure 46	m	0.000
SegmLSt46	segment number left of structure 46	-	0.000
SegmRSt46	segment number right of structure 46	-	0.000
CoefbSt46	dam reaeration coefficient of structure 46	-	0.000
WidthSt46	width of structure 46	m	0.000
DischSt47	discharge at structure 47	m ³ /s	0.000
WtLvLSt47	water level left of structure 47	m	0.000
WtLvRSt47	water level right of structure 47	m	0.000
SegmLSt47	segment number left of structure 47	-	0.000
SegmRSt47	segment number right of structure 47	-	0.000
CoefbSt47	dam reaeration coefficient of structure 47	-	0.000
WidthSt47	width of structure 47	m	0.000
DischSt48	discharge at structure 48	m ³ /s	0.000
WtLvLSt48	water level left of structure 48	m	0.000
WtLvRSt48	water level right of structure 48	m	0.000
SegmLSt48	segment number left of structure 48	-	0.000
SegmRSt48	segment number right of structure 48	-	0.000
CoefbSt48	dam reaeration coefficient of structure 48	-	0.000
WidthSt48	width of structure 48	m	0.000
DischSt49	discharge at structure 49	m ³ /s	0.000
WtLvLSt49	water level left of structure 49	m	0.000
WtLvRSt49	water level right of structure 49	m	0.000
SegmLSt49	segment number left of structure 49	-	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
SegmRSt49	segment number right of structure 49	-	0.000
CoefbSt49	dam reaeration coefficient of structure 49	-	0.000
WidthSt49	width of structure 49	m	0.000
DischSt50	discharge at structure 50	m ³ /s	0.000
WtLvLSt50	water level left of structure 50	m	0.000
WtLvRSt50	water level right of structure 50	m	0.000
SegmLSt50	segment number left of structure 50	-	0.000
SegmRSt50	segment number right of structure 50	-	0.000
CoefbSt50	dam reaeration coefficient of structure 50	-	0.000
WidthSt50	width of structure 50	m	0.000
DischSt51	discharge at structure 51	m ³ /s	0.000
WtLvLSt51	water level left of structure 51	m	0.000
WtLvRSt51	water level right of structure 51	m	0.000
SegmLSt51	segment number left of structure 51	-	0.000
SegmRSt51	segment number right of structure 51	-	0.000
CoefbSt51	dam reaeration coefficient of structure 51	-	0.000
WidthSt51	width of structure 51	m	0.000
DischSt52	discharge at structure 52	m ³ /s	0.000
WtLvLSt52	water level left of structure 52	m	0.000
WtLvRSt52	water level right of structure 52	m	0.000
SegmLSt52	segment number left of structure 52	-	0.000
SegmRSt52	segment number right of structure 52	-	0.000
CoefbSt52	dam reaeration coefficient of structure 52	-	0.000
WidthSt52	width of structure 52	m	0.000
DischSt53	discharge at structure 53	m ³ /s	0.000
WtLvLSt53	water level left of structure 53	m	0.000
WtLvRSt53	water level right of structure 53	m	0.000
SegmLSt53	segment number left of structure 53	-	0.000
SegmRSt53	segment number right of structure 53	-	0.000
CoefbSt53	dam reaeration coefficient of structure 53	-	0.000
WidthSt53	width of structure 53	m	0.000
DischSt54	discharge at structure 54	m ³ /s	0.000
WtLvLSt54	water level left of structure 54	m	0.000
WtLvRSt54	water level right of structure 54	m	0.000
SegmLSt54	segment number left of structure 54	-	0.000
SegmRSt54	segment number right of structure 54	-	0.000
CoefbSt54	dam reaeration coefficient of structure 54	-	0.000
WidthSt54	width of structure 54	m	0.000
DischSt55	discharge at structure 55	m ³ /s	0.000
WtLvLSt55	water level left of structure 55	m	0.000
WtLvRSt55	water level right of structure 55	m	0.000
SegmLSt55	segment number left of structure 55	-	0.000
SegmRSt55	segment number right of structure 55	-	0.000
CoefbSt55	dam reaeration coefficient of structure 55	-	0.000
WidthSt55	width of structure 55	m	0.000
DischSt56	discharge at structure 56	m ³ /s	0.000
WtLvLSt56	water level left of structure 56	m	0.000
WtLvRSt56	water level right of structure 56	m	0.000
SegmLSt56	segment number left of structure 56	-	0.000
SegmRSt56	segment number right of structure 56	-	0.000
CoefbSt56	dam reaeration coefficient of structure 56	-	0.000
WidthSt56	width of structure 56	m	0.000
DischSt57	discharge at structure 57	m ³ /s	0.000
WtLvLSt57	water level left of structure 57	m	0.000
WtLvRSt57	water level right of structure 57	m	0.000
SegmLSt57	segment number left of structure 57	-	0.000
SegmRSt57	segment number right of structure 57	-	0.000
CoefbSt57	dam reaeration coefficient of structure 57	-	0.000
WidthSt57	width of structure 57	m	0.000
DischSt58	discharge at structure 58	m ³ /s	0.000
WtLvLSt58	water level left of structure 58	m	0.000
WtLvRSt58	water level right of structure 58	m	0.000
SegmLSt58	segment number left of structure 58	-	0.000
SegmRSt58	segment number right of structure 58	-	0.000
CoefbSt58	dam reaeration coefficient of structure 58	-	0.000
WidthSt58	width of structure 58	m	0.000
DischSt59	discharge at structure 59	m ³ /s	0.000
WtLvLSt59	water level left of structure 59	m	0.000
WtLvRSt59	water level right of structure 59	m	0.000
SegmLSt59	segment number left of structure 59	-	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
SegmRSt59	segment number right of structure 59	-	0.000
CoefbSt59	dam reaeration coefficient of structure 59	-	0.000
WidthSt59	width of structure 59	m	0.000
DischSt60	discharge at structure 60	m ³ /s	0.000
WtLvLSt60	water level left of structure 60	m	0.000
WtLvRSt60	water level right of structure 60	m	0.000
SegmLSt60	segment number left of structure 60	-	0.000
SegmRSt60	segment number right of structure 60	-	0.000
CoefbSt60	dam reaeration coefficient of structure 60	-	0.000
WidthSt60	width of structure 60	m	0.000
DischSt61	discharge at structure 61	m ³ /s	0.000
WtLvLSt61	water level left of structure 61	m	0.000
WtLvRSt61	water level right of structure 61	m	0.000
SegmLSt61	segment number left of structure 61	-	0.000
SegmRSt61	segment number right of structure 61	-	0.000
CoefbSt61	dam reaeration coefficient of structure 61	-	0.000
WidthSt61	width of structure 61	m	0.000
DischSt62	discharge at structure 62	m ³ /s	0.000
WtLvLSt62	water level left of structure 62	m	0.000
WtLvRSt62	water level right of structure 62	m	0.000
SegmLSt62	segment number left of structure 62	-	0.000
SegmRSt62	segment number right of structure 62	-	0.000
CoefbSt62	dam reaeration coefficient of structure 62	-	0.000
WidthSt62	width of structure 62	m	0.000
DischSt63	discharge at structure 63	m ³ /s	0.000
WtLvLSt63	water level left of structure 63	m	0.000
WtLvRSt63	water level right of structure 63	m	0.000
SegmLSt63	segment number left of structure 63	-	0.000
SegmRSt63	segment number right of structure 63	-	0.000
CoefbSt63	dam reaeration coefficient of structure 63	-	0.000
WidthSt63	width of structure 63	m	0.000
DischSt64	discharge at structure 64	m ³ /s	0.000
WtLvLSt64	water level left of structure 64	m	0.000
WtLvRSt64	water level right of structure 64	m	0.000
SegmLSt64	segment number left of structure 64	-	0.000
SegmRSt64	segment number right of structure 64	-	0.000
CoefbSt64	dam reaeration coefficient of structure 64	-	0.000
WidthSt64	width of structure 64	m	0.000
DischSt65	discharge at structure 65	m ³ /s	0.000
WtLvLSt65	water level left of structure 65	m	0.000
WtLvRSt65	water level right of structure 65	m	0.000
SegmLSt65	segment number left of structure 65	-	0.000
SegmRSt65	segment number right of structure 65	-	0.000
CoefbSt65	dam reaeration coefficient of structure 65	-	0.000
WidthSt65	width of structure 65	m	0.000
DischSt66	discharge at structure 66	m ³ /s	0.000
WtLvLSt66	water level left of structure 66	m	0.000
WtLvRSt66	water level right of structure 66	m	0.000
SegmLSt66	segment number left of structure 66	-	0.000
SegmRSt66	segment number right of structure 66	-	0.000
CoefbSt66	dam reaeration coefficient of structure 66	-	0.000
WidthSt66	width of structure 66	m	0.000
DischSt67	discharge at structure 67	m ³ /s	0.000
WtLvLSt67	water level left of structure 67	m	0.000
WtLvRSt67	water level right of structure 67	m	0.000
SegmLSt67	segment number left of structure 67	-	0.000
SegmRSt67	segment number right of structure 67	-	0.000
CoefbSt67	dam reaeration coefficient of structure 67	-	0.000
WidthSt67	width of structure 67	m	0.000
DischSt68	discharge at structure 68	m ³ /s	0.000
WtLvLSt68	water level left of structure 68	m	0.000
WtLvRSt68	water level right of structure 68	m	0.000
SegmLSt68	segment number left of structure 68	-	0.000
SegmRSt68	segment number right of structure 68	-	0.000
CoefbSt68	dam reaeration coefficient of structure 68	-	0.000
WidthSt68	width of structure 68	m	0.000
DischSt69	discharge at structure 69	m ³ /s	0.000
WtLvLSt69	water level left of structure 69	m	0.000
WtLvRSt69	water level right of structure 69	m	0.000
SegmLSt69	segment number left of structure 69	-	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
SegmRSt69	segment number right of structure 69	-	0.000
CoefbSt69	dam reaeration coefficient of structure 69	-	0.000
WidthSt69	width of structure 69	m	0.000
DischSt70	discharge at structure 70	m ³ /s	0.000
WtLvLSt70	water level left of structure 70	m	0.000
WtLvRSt70	water level right of structure 70	m	0.000
SegmLSt70	segment number left of structure 70	-	0.000
SegmRSt70	segment number right of structure 70	-	0.000
CoefbSt70	dam reaeration coefficient of structure 70	-	0.000
WidthSt70	width of structure 70	m	0.000
DischSt71	discharge at structure 71	m ³ /s	0.000
WtLvLSt71	water level left of structure 71	m	0.000
WtLvRSt71	water level right of structure 71	m	0.000
SegmLSt71	segment number left of structure 71	-	0.000
SegmRSt71	segment number right of structure 71	-	0.000
CoefbSt71	dam reaeration coefficient of structure 71	-	0.000
WidthSt71	width of structure 71	m	0.000
DischSt72	discharge at structure 72	m ³ /s	0.000
WtLvLSt72	water level left of structure 72	m	0.000
WtLvRSt72	water level right of structure 72	m	0.000
SegmLSt72	segment number left of structure 72	-	0.000
SegmRSt72	segment number right of structure 72	-	0.000
CoefbSt72	dam reaeration coefficient of structure 72	-	0.000
WidthSt72	width of structure 72	m	0.000
DischSt73	discharge at structure 73	m ³ /s	0.000
WtLvLSt73	water level left of structure 73	m	0.000
WtLvRSt73	water level right of structure 73	m	0.000
SegmLSt73	segment number left of structure 73	-	0.000
SegmRSt73	segment number right of structure 73	-	0.000
CoefbSt73	dam reaeration coefficient of structure 73	-	0.000
WidthSt73	width of structure 73	m	0.000
DischSt74	discharge at structure 74	m ³ /s	0.000
WtLvLSt74	water level left of structure 74	m	0.000
WtLvRSt74	water level right of structure 74	m	0.000
SegmLSt74	segment number left of structure 74	-	0.000
SegmRSt74	segment number right of structure 74	-	0.000
CoefbSt74	dam reaeration coefficient of structure 74	-	0.000
WidthSt74	width of structure 74	m	0.000
DischSt75	discharge at structure 75	m ³ /s	0.000
WtLvLSt75	water level left of structure 75	m	0.000
WtLvRSt75	water level right of structure 75	m	0.000
SegmLSt75	segment number left of structure 75	-	0.000
SegmRSt75	segment number right of structure 75	-	0.000
CoefbSt75	dam reaeration coefficient of structure 75	-	0.000
WidthSt75	width of structure 75	m	0.000
DischSt76	discharge at structure 76	m ³ /s	0.000
WtLvLSt76	water level left of structure 76	m	0.000
WtLvRSt76	water level right of structure 76	m	0.000
SegmLSt76	segment number left of structure 76	-	0.000
SegmRSt76	segment number right of structure 76	-	0.000
CoefbSt76	dam reaeration coefficient of structure 76	-	0.000
WidthSt76	width of structure 76	m	0.000
DischSt77	discharge at structure 77	m ³ /s	0.000
WtLvLSt77	water level left of structure 77	m	0.000
WtLvRSt77	water level right of structure 77	m	0.000
SegmLSt77	segment number left of structure 77	-	0.000
SegmRSt77	segment number right of structure 77	-	0.000
CoefbSt77	dam reaeration coefficient of structure 77	-	0.000
WidthSt77	width of structure 77	m	0.000
DischSt78	discharge at structure 78	m ³ /s	0.000
WtLvLSt78	water level left of structure 78	m	0.000
WtLvRSt78	water level right of structure 78	m	0.000
SegmLSt78	segment number left of structure 78	-	0.000
SegmRSt78	segment number right of structure 78	-	0.000
CoefbSt78	dam reaeration coefficient of structure 78	-	0.000
WidthSt78	width of structure 78	m	0.000
DischSt79	discharge at structure 79	m ³ /s	0.000
WtLvLSt79	water level left of structure 79	m	0.000
WtLvRSt79	water level right of structure 79	m	0.000
SegmLSt79	segment number left of structure 79	-	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
SegmRSt79	segment number right of structure 79	-	0.000
CoefbSt79	dam reaeration coefficient of structure 79	-	0.000
WidthSt79	width of structure 79	m	0.000
DischSt80	discharge at structure 80	m ³ /s	0.000
WtLvLSt80	water level left of structure 80	m	0.000
WtLvRSt80	water level right of structure 80	m	0.000
SegmLSt80	segment number left of structure 80	-	0.000
SegmRSt80	segment number right of structure 80	-	0.000
CoefbSt80	dam reaeration coefficient of structure 80	-	0.000
WidthSt80	width of structure 80	m	0.000
DischSt81	discharge at structure 81	m ³ /s	0.000
WtLvLSt81	water level left of structure 81	m	0.000
WtLvRSt81	water level right of structure 81	m	0.000
SegmLSt81	segment number left of structure 81	-	0.000
SegmRSt81	segment number right of structure 81	-	0.000
CoefbSt81	dam reaeration coefficient of structure 81	-	0.000
WidthSt81	width of structure 81	m	0.000
DischSt82	discharge at structure 82	m ³ /s	0.000
WtLvLSt82	water level left of structure 82	m	0.000
WtLvRSt82	water level right of structure 82	m	0.000
SegmLSt82	segment number left of structure 82	-	0.000
SegmRSt82	segment number right of structure 82	-	0.000
CoefbSt82	dam reaeration coefficient of structure 82	-	0.000
WidthSt82	width of structure 82	m	0.000
DischSt83	discharge at structure 83	m ³ /s	0.000
WtLvLSt83	water level left of structure 83	m	0.000
WtLvRSt83	water level right of structure 83	m	0.000
SegmLSt83	segment number left of structure 83	-	0.000
SegmRSt83	segment number right of structure 83	-	0.000
CoefbSt83	dam reaeration coefficient of structure 83	-	0.000
WidthSt83	width of structure 83	m	0.000
DischSt84	discharge at structure 84	m ³ /s	0.000
WtLvLSt84	water level left of structure 84	m	0.000
WtLvRSt84	water level right of structure 84	m	0.000
SegmLSt84	segment number left of structure 84	-	0.000
SegmRSt84	segment number right of structure 84	-	0.000
CoefbSt84	dam reaeration coefficient of structure 84	-	0.000
WidthSt84	width of structure 84	m	0.000
DischSt85	discharge at structure 85	m ³ /s	0.000
WtLvLSt85	water level left of structure 85	m	0.000
WtLvRSt85	water level right of structure 85	m	0.000
SegmLSt85	segment number left of structure 85	-	0.000
SegmRSt85	segment number right of structure 85	-	0.000
CoefbSt85	dam reaeration coefficient of structure 85	-	0.000
WidthSt85	width of structure 85	m	0.000
DischSt86	discharge at structure 86	m ³ /s	0.000
WtLvLSt86	water level left of structure 86	m	0.000
WtLvRSt86	water level right of structure 86	m	0.000
SegmLSt86	segment number left of structure 86	-	0.000
SegmRSt86	segment number right of structure 86	-	0.000
CoefbSt86	dam reaeration coefficient of structure 86	-	0.000
WidthSt86	width of structure 86	m	0.000
DischSt87	discharge at structure 87	m ³ /s	0.000
WtLvLSt87	water level left of structure 87	m	0.000
WtLvRSt87	water level right of structure 87	m	0.000
SegmLSt87	segment number left of structure 87	-	0.000
SegmRSt87	segment number right of structure 87	-	0.000
CoefbSt87	dam reaeration coefficient of structure 87	-	0.000
WidthSt87	width of structure 87	m	0.000
DischSt88	discharge at structure 88	m ³ /s	0.000
WtLvLSt88	water level left of structure 88	m	0.000
WtLvRSt88	water level right of structure 88	m	0.000
SegmLSt88	segment number left of structure 88	-	0.000
SegmRSt88	segment number right of structure 88	-	0.000
CoefbSt88	dam reaeration coefficient of structure 88	-	0.000
WidthSt88	width of structure 88	m	0.000
DischSt89	discharge at structure 89	m ³ /s	0.000
WtLvLSt89	water level left of structure 89	m	0.000
WtLvRSt89	water level right of structure 89	m	0.000
SegmLSt89	segment number left of structure 89	-	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
SegmRSt89	segment number right of structure 89	-	0.000
CoefbSt89	dam reaeration coefficient of structure 89	-	0.000
WidthSt89	width of structure 89	m	0.000
DischSt90	discharge at structure 90	m ³ /s	0.000
WtLvLSt90	water level left of structure 90	m	0.000
WtLvRSt90	water level right of structure 90	m	0.000
SegmLSt90	segment number left of structure 90	-	0.000
SegmRSt90	segment number right of structure 90	-	0.000
CoefbSt90	dam reaeration coefficient of structure 90	-	0.000
WidthSt90	width of structure 90	m	0.000
DischSt91	discharge at structure 91	m ³ /s	0.000
WtLvLSt91	water level left of structure 91	m	0.000
WtLvRSt91	water level right of structure 91	m	0.000
SegmLSt91	segment number left of structure 91	-	0.000
SegmRSt91	segment number right of structure 91	-	0.000
CoefbSt91	dam reaeration coefficient of structure 91	-	0.000
WidthSt91	width of structure 91	m	0.000
DischSt92	discharge at structure 92	m ³ /s	0.000
WtLvLSt92	water level left of structure 92	m	0.000
WtLvRSt92	water level right of structure 92	m	0.000
SegmLSt92	segment number left of structure 92	-	0.000
SegmRSt92	segment number right of structure 92	-	0.000
CoefbSt92	dam reaeration coefficient of structure 92	-	0.000
WidthSt92	width of structure 92	m	0.000
DischSt93	discharge at structure 93	m ³ /s	0.000
WtLvLSt93	water level left of structure 93	m	0.000
WtLvRSt93	water level right of structure 93	m	0.000
SegmLSt93	segment number left of structure 93	-	0.000
SegmRSt93	segment number right of structure 93	-	0.000
CoefbSt93	dam reaeration coefficient of structure 93	-	0.000
WidthSt93	width of structure 93	m	0.000
DischSt94	discharge at structure 94	m ³ /s	0.000
WtLvLSt94	water level left of structure 94	m	0.000
WtLvRSt94	water level right of structure 94	m	0.000
SegmLSt94	segment number left of structure 94	-	0.000
SegmRSt94	segment number right of structure 94	-	0.000
CoefbSt94	dam reaeration coefficient of structure 94	-	0.000
WidthSt94	width of structure 94	m	0.000
DischSt95	discharge at structure 95	m ³ /s	0.000
WtLvLSt95	water level left of structure 95	m	0.000
WtLvRSt95	water level right of structure 95	m	0.000
SegmLSt95	segment number left of structure 95	-	0.000
SegmRSt95	segment number right of structure 95	-	0.000
CoefbSt95	dam reaeration coefficient of structure 95	-	0.000
WidthSt95	width of structure 95	m	0.000
DischSt96	discharge at structure 96	m ³ /s	0.000
WtLvLSt96	water level left of structure 96	m	0.000
WtLvRSt96	water level right of structure 96	m	0.000
SegmLSt96	segment number left of structure 96	-	0.000
SegmRSt96	segment number right of structure 96	-	0.000
CoefbSt96	dam reaeration coefficient of structure 96	-	0.000
WidthSt96	width of structure 96	m	0.000
DischSt97	discharge at structure 97	m ³ /s	0.000
WtLvLSt97	water level left of structure 97	m	0.000
WtLvRSt97	water level right of structure 97	m	0.000
SegmLSt97	segment number left of structure 97	-	0.000
SegmRSt97	segment number right of structure 97	-	0.000
CoefbSt97	dam reaeration coefficient of structure 97	-	0.000
WidthSt97	width of structure 97	m	0.000
DischSt98	discharge at structure 98	m ³ /s	0.000
WtLvLSt98	water level left of structure 98	m	0.000
WtLvRSt98	water level right of structure 98	m	0.000
SegmLSt98	segment number left of structure 98	-	0.000
SegmRSt98	segment number right of structure 98	-	0.000
CoefbSt98	dam reaeration coefficient of structure 98	-	0.000
WidthSt98	width of structure 98	m	0.000
DischSt99	discharge at structure 99	m ³ /s	0.000
WtLvLSt99	water level left of structure 99	m	0.000
WtLvRSt99	water level right of structure 99	m	0.000
SegmLSt99	segment number left of structure 99	-	0.000

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Process	Description	Unit	Default
SegmRSt99	segment number right of structure 99	-	0.000
CoefbSt99	dam reaeration coefficient of structure 99	-	0.000
WidthSt99	width of structure 99	m	0.000
DischSt100	discharge at structure 100	m ³ /s	0.000
WtLvLSt100	water level left of structure 100	m	0.000
WtLvRSt100	water level right of structure 100	m	0.000
SegmLSt100	segment number left of structure 100	-	0.000
SegmRSt100	segment number right of structure 100	-	0.000
CoefbSt100	dam reaeration coefficient of structure 100	-	0.000
WidthSt100	width of structure 100	m	0.000
EqAPATDisP	equilibrium concentration PO4 with apatite	gP/m ³	0.050
RCdisAP20	2nd order dissolution rate of apatite	m ³ /g/d	0.000
RatAPandVP	ratio of apat. and vivian. precipitation rate	-	1.000
ZHarveZoop	harvest flux of zooplankton-grazer1	gC/(m ² d)	0.000
PHarveZoop	fraction harvest of zooplankton-grazer1 step	-	0.000
ZHarveMuss	harvest flux of mussel-grazer2	gC/(m ² d)	0.000
PHarveMuss	fraction harvest of mussel-grazer2 per timestep	-	0.000
TMussel	threshold concentration of mussel-grazer2	gC/m ³	0.000
ZHarveG3	harvest flux of grazer3	gC/(m ² d)	0.000
PHarveG3	fraction harvest of grazer3 per timestep	-	0.000
TGrazer3	threshold concentration of grazer3	gC/m ³	0.000
ZHarveG4	harvest flux of grazer4	gC/(m ² d)	0.000
PHarveG4	fraction harvest of grazer4 per timestep	-	0.000
TGrazer4	threshold concentration of grazer4	gC/m ³	0.000
ZHarveG5	harvest flux of grazer5	gC/(m ² d)	0.000
PHarveG5	fraction harvest of grazer5 per timestep	-	0.000
TGrazer5	threshold concentration of grazer5	gC/m ³	0.000
RootDeVB01	Max Height VB01	m	1.000
nsfVB01	nr successive emersionflood VB01	d	0.000
CrnsfVB01	critical number successive flood days VB01	d	5.000
Initnsf	initial number flood days at simulation start	d	0.000
SwNutVB01	switch indicating nutrient limitation VB01	-	0.000
nsnlVB01	number of successive days nutrient lim. VB01	d	0.000
CrnsnlVB01	critical number of successive nut. lim VB01	d	0.000
SwVB01Gro	vegetation biomass growth allowed 0=no,1=yes	-	0.000
SwVB01Mrt	vegetation biomass dead 0=no,1=yes	-	0.000
maxVB01	maximum vegetation biomass cohort 1	t/ha	0.000
minVB01	minimum vegetation biomass cohort 1	t/ha	0.000
hlfAgeVB01	age where biomass is half of maximum cohort 1	d	0.000
sfVB01	shape factor growth curve cohort 1	-	1.000
dmCfVB01	dry matter carbon ratio veg. cohort 1	dm/gC	2.500
iniVB01	initial veg. biomass cohort 1	t/ha	0.000
iniCovVB01	initial veg. coverage cohort 1	%	0.000
SWiniVB01	switch 0=biomass 1=%coverage for cohort 1	-	1.000
VBType01	nr of the vegetation type for warnings	-	1.000
VBFrMaxU	maximum fraction available for uptake <0-1>	-	0.500
F1VB01	allocation factor comp. 1 stem VB01	-	0.500
F2VB01	allocation factor comp. 2 foliage VB01	-	0.200
F3VB01	allocation factor comp. 3 branch VB01	-	0.000
F4VB01	allocation factor comp. 4 root VB01	-	0.100
F5VB01	allocation factor comp. 5 fineroot VB01	-	0.200
CNf1VB01	carbon-nitrogen ratio in stem VB01	gC/gN	10.000
CNf2VB01	carbon-nitrogen ratio in foliage VB01	gC/gN	10.000
CNf3VB01	carbon-nitrogen ratio in branch VB01	gC/gN	10.000
CNf4VB01	carbon-nitrogen ratio in root VB01	gC/gN	10.000
CNf5VB01	carbon-nitrogen ratio in fineroot VB01	gC/gN	10.000
CPf1VB01	carbon-phosphorus ratio in stem VB01	gC/gP	1.000
CPf2VB01	carbon-phosphorus ratio in foliage VB01	gC/gP	1.000
CPf3VB01	carbon-phosphorus ratio in branch VB01	gC/gP	1.000
CPf4VB01	carbon-phosphorus ratio in root VB01	gC/gP	1.000
CPf5VB01	carbon-phosphorus ratio in fineroot VB01	gC/gP	1.000
CSf1VB01	carbon-sulphur ratio in stem VB01	gC/gS	0.100
CSf2VB01	carbon-sulphur ratio in foliage VB01	gC/gS	0.100
CSf3VB01	carbon-sulphur ratio in branch VB01	gC/gS	0.100
CSf4VB01	carbon-sulphur ratio in root VB01	gC/gS	0.100
CSf5VB01	carbon-sulphur ratio in fineroot	gC/gS	0.100
SWRegrVB01	allow regrowth y=1,n=0 after decay	-	1.000
SWVB01Dec	biomass is decaying after prev mort type 1	-	0.000
IniAgeVB01	initial age of VB at start of simulation	d	0.000
IniVB01dec	initial decay Switch VB01 start simulation	-	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
FfolPOC1	fraction of biomass foliage to POC1	-	0.100
FfolPOC2	fraction of biomass foliage to POC2	-	0.400
FfrootPOC1	fraction of biomass root to POC1	-	0.100
FfrootPOC2	fraction of biomass root to POC2	-	0.400
RcMrtVB01	rate consatant for mortality cohort 1	d	0.010
SwDisVB01	Switch Gr. Distr.VBXX 1cont. 2lin. 3exp.	-	1.000
VegHeVB01	Max Height VB01	m	3.000
FfacVB01	Form factor lin: $F = M_{mean}/M/H_{max}$ VBXX	-	1.000
nfVB_wat	number of fluxes VBXX to be distributed	-	20.000
nfVB_sed	number of fluxes VBXX to be distributed	-	16.000
RootDeVB02	Max Height VB02	m	1.000
CrnsfVB02	critical number successive flood days VB02	d	5.000
SwNutVB02	switch indicating nutrient limitation VB02	-	0.000
nsnlVB02	number of successive days nutrient lim. VB02	d	0.000
CrnsnVB02	critical number of successive nut. lim VB02	d	0.000
SwVB02Gro	vegetation biomass growth allowed 0=no,1=yes	-	0.000
SwVB02Mrt	vegetation biomass dead 0=no,1=yes	-	0.000
nsfVB02	nr successive emersionflood VB02	d	0.000
maxVB02	maximum vegetation biomass cohort 2	t/ha	0.000
minVB02	minimum vegetation biomass cohort 2	t/ha	0.000
hlfAgeVB02	age where biomass is half of maximum cohort 2	d	0.000
sfVB02	shape factor growth curve cohort 2	-	1.000
dmCfVB02	dry matter carbon ratio veg. cohort 2	dm/gC	2.500
iniVB02	initial veg. biomass cohort 2	t/ha	0.000
iniCovVB02	initial veg. coverage cohort 2	%	0.000
SWiniVB02	switch 0=biomass 1=%coverage for cohort 2	-	1.000
VBType02	nr of the vegetation type for warnings	-	2.000
F1VB02	allocation factor comp. 1 stem VB02	-	0.500
F2VB02	allocation factor comp. 2 foliage VB02	-	0.200
F3VB02	allocation factor comp. 3 branch VB02	-	0.000
F4VB02	allocation factor comp. 4 root VB02	-	0.100
F5VB02	allocation factor comp. 5 fineroot VB02	-	0.200
CNf1VB02	carbon-nitrogen ratio in stem VB02	gC/gN	10.000
CNf2VB02	carbon-nitrogen ratio in foliage VB02	gC/gN	10.000
CNf3VB02	carbon-nitrogen ratio in branch VB02	gC/gN	10.000
CNf4VB02	carbon-nitrogen ratio in root VB02	gC/gN	10.000
CNf5VB02	carbon-nitrogen ratio in fineroot VB02	gC/gN	10.000
CPf1VB02	carbon-phosphorus ratio in stem VB02	gC/gP	1.000
CPf2VB02	carbon-phosphorus ratio in foliage VB02	gC/gP	1.000
CPf3VB02	carbon-phosphorus ratio in branch VB02	gC/gP	1.000
CPf4VB02	carbon-phosphorus ratio in root VB02	gC/gP	1.000
CPf5VB02	carbon-phosphorus ratio in fineroot VB02	gC/gP	1.000
CSf1VB02	carbon-sulphur ratio in stem VB02	gC/gS	0.100
CSf2VB02	carbon-sulphur ratio in foliage VB02	gC/gS	0.100
CSf3VB02	carbon-sulphur ratio in branch VB02	gC/gS	0.100
CSf4VB02	carbon-sulphur ratio in root VB02	gC/gS	0.100
CSf5VB02	carbon-sulphur ratio in fineroot	gC/gS	0.100
SWRegrVB02	allow regrowth $y=1, n=0$ after decay	-	1.000
SWVB02Dec	biomass is decaying after prev mort type 2	-	0.000
IniAgeVB02	inital age of VB at start of simulation	d	0.000
IniVB02dec	inital decay Switch VB02 start simulation	-	0.000
RcMrtVB02	rate consatant for mortality cohort 2	d	0.010
SwDisVB02	Switch Gr. Distr.VBXX 1cont. 2lin. 3exp.	-	1.000
VegHeVB02	Max Height VB02	m	1.000
FfacVB02	Form factor lin: $F = M_{mean}/M/H_{max}$ VBXX	-	1.000
RootDeVB03	Max Height VB03	m	1.000
CrnsfVB03	critical number successive flood days VB03	d	5.000
SwNutVB03	switch indicating nutrient limitation VB03	-	0.000
nsnlVB03	number of successive days nutrient lim. VB03	d	0.000
CrnsnVB03	critical number of successive nut. lim VB03	d	0.000
SwVB03Gro	vegetation biomass growth allowed 0=no,1=yes	-	0.000
SwVB03Mrt	vegetation biomass dead 0=no,1=yes	-	0.000
nsfVB03	nr successive emersionflood VB03	d	0.000
maxVB03	maximum vegetation biomass cohort 3	t/ha	0.000
minVB03	minimum vegetation biomass cohort 3	t/ha	0.000
hlfAgeVB03	age where biomass is half of maximum cohort 3	d	0.000
sfVB03	shape factor growth curve cohort 3	-	1.000
dmCfVB03	dry matter carbon ratio veg. cohort 3	dm/gC	2.500
iniVB03	initial veg. biomass cohort 3	t/ha	0.000
iniCovVB03	initial veg. coverage cohort 3	%	0.000
SWiniVB03	switch 0=biomass 1=%coverage for cohort 3	-	1.000

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Process	Description	Unit	Default
VBType03	nr of the vegetation type for warnings	-	3.000
F1VB03	allocation factor comp. 1 stem VB03	-	0.500
F2VB03	allocation factor comp. 2 foliage VB03	-	0.200
F3VB03	allocation factor comp. 3 branch VB03	-	0.000
F4VB03	allocation factor comp. 4 root VB03	-	0.100
F5VB03	allocation factor comp. 5 fineroot VB03	-	0.200
CNf1VB03	carbon-nitrogen ratio in stem VB03	gC/gN	10.000
CNf2VB03	carbon-nitrogen ratio in foliage VB03	gC/gN	10.000
CNf3VB03	carbon-nitrogen ratio in branch VB03	gC/gN	10.000
CNf4VB03	carbon-nitrogen ratio in root VB03	gC/gN	10.000
CNf5VB03	carbon-nitrogen ratio in fineroot VB03	gC/gN	10.000
CPf1VB03	carbon-phosphorus ratio in stem VB03	gC/gP	1.000
CPf2VB03	carbon-phosphorus ratio in foliage VB03	gC/gP	1.000
CPf3VB03	carbon-phosphorus ratio in branch VB03	gC/gP	1.000
CPf4VB03	carbon-phosphorus ratio in root VB03	gC/gP	1.000
CPf5VB03	carbon-phosphorus ratio in fineroot VB03	gC/gP	1.000
CSf1VB03	carbon-sulphur ratio in stem VB03	gC/gS	0.100
CSf2VB03	carbon-sulphur ratio in foliage VB03	gC/gS	0.100
CSf3VB03	carbon-sulphur ratio in branch VB03	gC/gS	0.100
CSf4VB03	carbon-sulphur ratio in root VB03	gC/gS	0.100
CSf5VB03	carbon-sulphur ratio in fineroot	gC/gS	0.100
SWRegrVB03	allow regrowth y=1,n=0 after decay	-	1.000
SWVB03Dec	biomass is decaying after prev mort type 3	-	0.000
IniAgeVB03	initial age of VB at start of simulation	d	0.000
IniVB03dec	initial decay Switch VB03 start simulation	-	0.000
RcMrtVB03	rate constant for mortality cohort 3	d	0.010
SwDisVB03	Switch Gr. Distr.VBXX 1cont. 2lin. 3exp.	-	1.000
VegHeVB03	Max Height VB03	m	3.000
FfacVB03	Form factor lin: F = Mmean/M/Hmax VBXX	-	1.000
RootDeVB04	Max Height VB04	m	1.000
CrnsfVB04	critical number successive flood days VB	d	5.000
SwNutVB04	switch indicating nutrient limitation VB04	-	0.000
nsnlVB04	number of successive days nutrient lim. VB04	d	0.000
CrnsnlVB04	critical number of successive nut. lim VB04	d	0.000
SwVB04Gro	vegetation biomass growth allowed 0=no,1=yes	-	0.000
SwVB04Mrt	vegetation biomass dead 0=no,1=yes	-	0.000
nsfVB04	nr successive emersionflood VB04	d	0.000
maxVB04	maximum vegetation biomass cohort 4	t/ha	0.000
minVB04	minimum vegetation biomass cohort 4	t/ha	0.000
hlfAgeVB04	age where biomass is half of maximum cohort 4	d	0.000
sfVB04	shape factor growth curve cohort 4	-	1.000
dmCfVB04	dry matter carbon ratio veg. cohort 4	dm/gC	2.500
iniVB04	initial veg. biomass cohort 4	t/ha	0.000
iniCovVB04	initial veg. coverage cohort 4	%	0.000
SWiniVB04	switch 0=biomass 1=%coverage for cohort 4	-	1.000
VBType04	nr of the vegetation type for warnings	-	4.000
F1VB04	allocation factor comp. 1 stem VB04	-	0.500
F2VB04	allocation factor comp. 2 foliage VB04	-	0.200
F3VB04	allocation factor comp. 3 branch VB04	-	0.000
F4VB04	allocation factor comp. 4 root VB04	-	0.100
F5VB04	allocation factor comp. 5 fineroot VB04	-	0.200
CNf1VB04	carbon-nitrogen ratio in stem VB04	gC/gN	10.000
CNf2VB04	carbon-nitrogen ratio in foliage VB04	gC/gN	10.000
CNf3VB04	carbon-nitrogen ratio in branch VB04	gC/gN	10.000
CNf4VB04	carbon-nitrogen ratio in root VB04	gC/gN	10.000
CNf5VB04	carbon-nitrogen ratio in fineroot VB04	gC/gN	10.000
CPf1VB04	carbon-phosphorus ratio in stem VB04	gC/gP	1.000
CPf2VB04	carbon-phosphorus ratio in foliage VB04	gC/gP	1.000
CPf3VB04	carbon-phosphorus ratio in branch VB04	gC/gP	1.000
CPf4VB04	carbon-phosphorus ratio in root VB04	gC/gP	1.000
CPf5VB04	carbon-phosphorus ratio in fineroot VB04	gC/gP	1.000
CSf1VB04	carbon-sulphur ratio in stem VB04	gC/gS	0.100
CSf2VB04	carbon-sulphur ratio in foliage VB04	gC/gS	0.100
CSf3VB04	carbon-sulphur ratio in branch VB04	gC/gS	0.100
CSf4VB04	carbon-sulphur ratio in root VB04	gC/gS	0.100
CSf5VB04	carbon-sulphur ratio in fineroot	gC/gS	0.100
SWRegrVB04	allow regrowth y=1,n=0 after decay	-	1.000
SWVB04Dec	biomass is decaying after prev mort type 4	-	0.000
IniAgeVB04	initial age of VB at start of simulation	d	0.000
IniVB04dec	initial decay Switch VB04 start simulation	-	0.000
RcMrtVB04	rate constant for mortality cohort 4	d	0.040

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Process	Description	Unit	Default
SwDisVB04	Switch Gr. Distr.VBXX 1cont. 2lin. 3exp.	-	1.000
VegHeVB04	Max Height VB04	m	3.000
FfacVB04	Form factor lin: $F = M_{mean}/M/H_{max}$ VBXX	-	1.000
RootDeVB05	Max Height VB05	m	1.000
CrnsfVB05	critical number successive flood days VB05	d	5.000
SwNutVB05	switch indicating nutrient limitation VB05	-	0.000
nsnlVB05	number of successive days nutrient lim. VB05	d	0.000
CrnsnlVB05	critical number of successive nut. lim VB05	d	0.000
SwVB05Gro	vegetation biomass growth allowed 0=no,1=yes	-	0.000
SwVB05Mrt	vegetation biomass dead 0=no,1=yes	-	0.000
nsfVB05	nr successive emersionflood VB05	d	0.000
maxVB05	maximum vegetation biomass cohort 5	t/ha	0.000
minVB05	minimum vegetation biomass cohort 5	t/ha	0.000
hlfAgeVB05	age where biomass is half of maximum cohort 5	d	0.000
sfVB05	shape factor growth curve cohort 5	-	1.000
dmCfVB05	dry matter carbon ratio veg. cohort 5	dm/gC	2.500
iniVB05	initial veg. biomass cohort 5	t/ha	0.000
iniCovVB05	initial veg. coverage cohort 5	%	0.000
SWiniVB05	switch 0=biomass 1=%coverage for cohort 5	-	1.000
VBType05	nr of the vegetation type for warnings	-	5.000
F1VB05	allocation factor comp. 1 stem VB05	-	0.500
F2VB05	allocation factor comp. 2 foliage VB05	-	0.200
F3VB05	allocation factor comp. 3 branch VB05	-	0.000
F4VB05	allocation factor comp. 4 root VB05	-	0.100
F5VB05	allocation factor comp. 5 fineroot VB05	-	0.200
CNf1VB05	carbon-nitrogen ratio in stem VB05	gC/gN	10.000
CNf2VB05	carbon-nitrogen ratio in foliage VB05	gC/gN	10.000
CNf3VB05	carbon-nitrogen ratio in branch VB05	gC/gN	10.000
CNf4VB05	carbon-nitrogen ratio in root VB05	gC/gN	10.000
CNf5VB05	carbon-nitrogen ratio in fineroot VB05	gC/gN	10.000
CPf1VB05	carbon-phosphorus ratio in stem VB05	gC/gP	1.000
CPf2VB05	carbon-phosphorus ratio in foliage VB05	gC/gP	1.000
CPf3VB05	carbon-phosphorus ratio in branch VB05	gC/gP	1.000
CPf4VB05	carbon-phosphorus ratio in root VB05	gC/gP	1.000
CPf5VB05	carbon-phosphorus ratio in fineroot VB05	gC/gP	1.000
CSf1VB05	carbon-sulphur ratio in stem VB05	gC/gS	0.100
CSf2VB05	carbon-sulphur ratio in foliage VB05	gC/gS	0.100
CSf3VB05	carbon-sulphur ratio in branch VB05	gC/gS	0.100
CSf4VB05	carbon-sulphur ratio in root VB05	gC/gS	0.100
CSf5VB05	carbon-sulphur ratio in fineroot	gC/gS	0.100
SWRegrVB05	allow regrowth $y=1, n=0$ after decay	-	1.000
SWVB05Dec	biomass is decaying after prev mort type 5	-	0.000
IniAgeVB05	initial age of VB at start of simulation	d	0.000
IniVB05dec	initial decay Switch VB05 start simulation	-	0.000
RcMrtVB05	rate constant for mortality cohort 5	d	0.010
SwDisVB05	Switch Gr. Distr.VBXX 1cont. 2lin. 3exp.	-	1.000
VegHeVB05	Max Height VB05	m	3.000
FfacVB05	Form factor lin: $F = M_{mean}/M/H_{max}$ VBXX	-	1.000
RootDeVB06	Max Height VB06	m	1.000
CrnsfVB06	critical number successive flood days VB06	d	5.000
SwNutVB06	switch indicating nutrient limitation VB06	-	0.000
nsnlVB06	number of successive days nutrient lim. VB06	d	0.000
CrnsnlVB06	critical number of successive nut. lim VB06	d	0.000
SwVB06Gro	vegetation biomass growth allowed 0=no,1=yes	-	0.000
SwVB06Mrt	vegetation biomass dead 0=no,1=yes	-	0.000
nsfVB06	nr successive emersionflood VB06	d	0.000
maxVB06	maximum vegetation biomass cohort 6	t/ha	0.000
minVB06	minimum vegetation biomass cohort 6	t/ha	0.000
hlfAgeVB06	age where biomass is half of maximum cohort 6	d	0.000
sfVB06	shape factor growth curve cohort 6	-	1.000
dmCfVB06	dry matter carbon ratio veg. cohort 6	dm/gC	2.500
iniVB06	initial veg. biomass cohort 6	t/ha	0.000
iniCovVB06	initial veg. coverage cohort 6	%	0.000
SWiniVB06	switch 0=biomass 1=%coverage for cohort 6	-	1.000
VBType06	nr of the vegetation type for warnings	-	6.000
F1VB06	allocation factor comp. 1 stem VB06	-	0.500
F2VB06	allocation factor comp. 2 foliage VB06	-	0.200
F3VB06	allocation factor comp. 3 branch VB06	-	0.000
F4VB06	allocation factor comp. 4 root VB06	-	0.100
F5VB06	allocation factor comp. 5 fineroot VB06	-	0.200
CNf1VB06	carbon-nitrogen ratio in stem VB06	gC/gN	10.000

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Process	Description	Unit	Default
CNf2VB06	carbon-nitrogen ratio in foliage VB06	gC/gN	10.000
CNf3VB06	carbon-nitrogen ratio in branch VB06	gC/gN	10.000
CNf4VB06	carbon-nitrogen ratio in root VB06	gC/gN	10.000
CNf5VB06	carbon-nitrogen ratio in fineroot VB06	gC/gN	10.000
CPf1VB06	carbon-phosphorus ratio in stem VB06	gC/gP	1.000
CPf2VB06	carbon-phosphorus ratio in foliage VB06	gC/gP	1.000
CPf3VB06	carbon-phosphorus ratio in branch VB06	gC/gP	1.000
CPf4VB06	carbon-phosphorus ratio in root VB06	gC/gP	1.000
CPf5VB06	carbon-phosphorus ratio in fineroot VB06	gC/gP	1.000
CSf1VB06	carbon-sulphur ratio in stem VB06	gC/gS	0.100
CSf2VB06	carbon-sulphur ratio in foliage VB06	gC/gS	0.100
CSf3VB06	carbon-sulphur ratio in branch VB06	gC/gS	0.100
CSf4VB06	carbon-sulphur ratio in root VB06	gC/gS	0.100
CSf5VB06	carbon-sulphur ratio in fineroot	gC/gS	0.100
SWRegrVB06	allow regrowth $y=1, n=0$ after decay	-	1.000
SWVB06Dec	biomass is decaying after prev mort type 6	-	0.000
IniAgeVB06	initil age of VB at start of simulation	d	0.000
IniVB06dec	initil decay Switch VB06 start simulation	-	0.000
RcMrtVB06	rate consatant for mortality cohort 6	d	0.010
SwDisVB06	Switch Gr. Distr.VBXX 1cont. 2lin. 3exp.	-	1.000
VegHeVB06	Max Height VB06	m	10.000
FfacVB06	Form factor lin: $F = M_{mean}/M/H_{max}$ VBXX	-	1.000
RootDeVB07	Max Height VB07	m	1.000
CrnsfVB07	critical number successive flood days VB07	d	5.000
SwNutVB07	switch indicating nutrient limitation VB07	-	0.000
nsnlVB07	number of successive days nutrient lim. VB07	d	0.000
CrnsnlVB07	critical number of successive nut. lim VB07	d	0.000
SwVB07Gro	vegetation biomass growth allowed 0=no,1=yes	-	0.000
SwVB07Mrt	vegetation biomass dead 0=no,1=yes	-	0.000
nsfVB07	nr successive emersionflood VB07	d	0.000
maxVB07	maximum vegetation biomass cohort 7	t/ha	0.000
minVB07	minimum vegetation biomass cohort 7	t/ha	0.000
hlfAgeVB07	age where biomass is half of maximum cohort 7	d	0.000
sfVB07	shape factor growth curve cohort 7	-	1.000
dmCfVB07	dry matter carbon ratio veg. cohort 7	dm/gC	2.500
iniVB07	initial veg. biomass cohort 7	t/ha	0.000
iniCovVB07	initial veg. coverage cohort 7	%	0.000
SWiniVB07	switch 0=biomass 1=%coverage for cohort 7	-	1.000
VBType07	nr of the vegetation type for warnings	-	7.000
F1VB07	allocation factor comp. 1 stem VB07	-	0.500
F2VB07	allocation factor comp. 2 foliage VB07	-	0.200
F3VB07	allocation factor comp. 3 branch VB07	-	0.000
F4VB07	allocation factor comp. 4 root VB07	-	0.100
F5VB07	allocation factor comp. 5 fineroot VB07	-	0.200
CNf1VB07	carbon-nitrogen ratio in stem VB07	gC/gN	10.000
CNf2VB07	carbon-nitrogen ratio in foliage VB07	gC/gN	10.000
CNf3VB07	carbon-nitrogen ratio in branch VB07	gC/gN	10.000
CNf4VB07	carbon-nitrogen ratio in root VB07	gC/gN	10.000
CNf5VB07	carbon-nitrogen ratio in fineroot VB07	gC/gN	10.000
CPf1VB07	carbon-phosphorus ratio in stem VB07	gC/gP	1.000
CPf2VB07	carbon-phosphorus ratio in foliage VB07	gC/gP	1.000
CPf3VB07	carbon-phosphorus ratio in branch VB07	gC/gP	1.000
CPf4VB07	carbon-phosphorus ratio in root VB07	gC/gP	1.000
CPf5VB07	carbon-phosphorus ratio in fineroot VB07	gC/gP	1.000
CSf1VB07	carbon-sulphur ratio in stem VB07	gC/gS	0.100
CSf2VB07	carbon-sulphur ratio in foliage VB07	gC/gS	0.100
CSf3VB07	carbon-sulphur ratio in branch VB07	gC/gS	0.100
CSf4VB07	carbon-sulphur ratio in root VB07	gC/gS	0.100
CSf5VB07	carbon-sulphur ratio in fineroot	gC/gS	0.100
SWRegrVB07	allow regrowth $y=1, n=0$ after decay	-	1.000
SWVB07Dec	biomass is decaying after prev mort type 7	-	0.000
IniAgeVB07	initil age of VB at start of simulation	d	0.000
IniVB07dec	initil decay Switch VB07 start simulation	-	0.000
RcMrtVB07	rate consatant for mortality cohort 7	d	0.010
SwDisVB07	Switch Gr. Distr.VBXX 1cont. 2lin. 3exp.	-	1.000
VegHeVB07	Max Height VB07	m	5.000
FfacVB07	Form factor lin: $F = M_{mean}/M/H_{max}$ VBXX	-	1.000
RootDeVB08	Max Height VB08	m	1.000
CrnsfVB08	critical number successive flood days VB08	d	5.000
SwNutVB08	switch indicating nutrient limitation VB08	-	0.000
nsnlVB08	number of successive days nutrient lim. VB08	d	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
CrnsnlVB08	critical number of successive nut. lim VB08	d	0.000
SwVB08Gro	vegetation biomass growth allowed 0=no,1=yes	-	0.000
SwVB08Mrt	vegetation biomass dead 0=no,1=yes	-	0.000
nsfVB08	nr successive emersionflood VB08	d	0.000
maxVB08	maximum vegetation biomass cohort 8	t/ha	0.000
minVB08	minimum vegetation biomass cohort 8	t/ha	0.000
hlfAgeVB08	age where biomass is half of maximum cohort 8	d	0.000
sfVB08	shape factor growth curve cohort 8	-	1.000
dmCfVB08	dry matter carbon ratio veg. cohort 8	dm/gC	2.500
iniVB08	initial veg. biomass cohort 8	t/ha	0.000
iniCovVB08	initial veg. coverage cohort 8	%	0.000
SWiniVB08	switch 0=biomass 1=%coverage for cohort 8	-	1.000
VBType08	nr of the vegetation type for warnings	-	8.000
F1VB08	allocation factor comp. 1 stem VB08	-	0.500
F2VB08	allocation factor comp. 2 foliage VB08	-	0.200
F3VB08	allocation factor comp. 3 branch VB08	-	0.000
F4VB08	allocation factor comp. 4 root VB08	-	0.100
F5VB08	allocation factor comp. 5 fineroot VB08	-	0.200
CNf1VB08	carbon-nitrogen ratio in stem VB08	gC/gN	10.000
CNf2VB08	carbon-nitrogen ratio in foliage VB08	gC/gN	10.000
CNf3VB08	carbon-nitrogen ratio in branch VB08	gC/gN	10.000
CNf4VB08	carbon-nitrogen ratio in root VB08	gC/gN	10.000
CNf5VB08	carbon-nitrogen ratio in fineroot VB08	gC/gN	10.000
CPf1VB08	carbon-phosphorus ratio in stem VB08	gC/gP	1.000
CPf2VB08	carbon-phosphorus ratio in foliage VB08	gC/gP	1.000
CPf3VB08	carbon-phosphorus ratio in branch VB08	gC/gP	1.000
CPf4VB08	carbon-phosphorus ratio in root VB08	gC/gP	1.000
CPf5VB08	carbon-phosphorus ratio in fineroot VB08	gC/gP	1.000
CSf1VB08	carbon-sulphur ratio in stem VB08	gC/gS	0.100
CSf2VB08	carbon-sulphur ratio in foliage VB08	gC/gS	0.100
CSf3VB08	carbon-sulphur ratio in branch VB08	gC/gS	0.100
CSf4VB08	carbon-sulphur ratio in root VB08	gC/gS	0.100
CSf5VB08	carbon-sulphur ratio in fineroot	gC/gS	0.100
SWRegrVB08	allow regrowth y=1,n=0 after decay	-	1.000
SWVB08Dec	biomass is decaying after prev mort type 8	-	0.000
IniAgeVB08	initial age of VB at start of simulation	d	0.000
IniVB08dec	initial decay Switch VB08 start simulation	-	0.000
GtCl	Salinity:Chloride ratio in sea water	l/kg	1.805
Sal0	salinity at zero chloride concentration	g/kg	0.030
SWSalCl	option: 0.0 salinity simulated, 1.0 Cl simulated	no unit	0.000
SWDisSi	option: 0.0 2nd order diss., 1.0 1st order diss.	no unit	0.000
ku_dFdcN20	upper limit mineralization rate fast detr-N	1/d	0.180
kl_dFdcN20	lower limit mineralization rate fast detr-N	1/d	0.120
ku_dFdcP20	upper limit mineralization rate fast detr-P	1/d	0.180
kl_dFdcP20	lower limit mineralization rate fast detr-P	1/d	0.120
b_poc1doc	fraction POC1 converted to DOC	-	0.000
SWOMDec	option: 0.0 for stripping, 1.0 for different rates	no unit	0.000
ku_dMdcN20	upper limit mineralization rate medium detr-N	1/d	0.015
kl_dMdcN20	lower limit mineralization rate medium detr-N	1/d	0.015
ku_dMdcP20	upper limit mineralization rate medium detr-P	1/d	0.015
kl_dMdcP20	lower limit mineralization rate medium detr-P	1/d	0.015
ku_dSdcN20	upper limit mineralization rate slow detr-N	1/d	0.001
kl_dSdcN20	lower limit mineralization rate slow detr-N	1/d	0.001
ku_dSdcP20	upper limit mineralization rate slow detr-P	1/d	0.001
kl_dSdcP20	lower limit mineralization rate slow detr-P	1/d	0.001
kl_RCdummy	dummy lower limit mineralization rate detr-C	1/d	0.001
ku_RNdummy	dummy upper limit mineralization rate detr-N	1/d	0.001
kl_RNdummy	dummy lower limit mineralization rate detr-N	1/d	0.001
ku_RPdumy	dummy upper limit mineralization rate detr-P	1/d	0.001
kl_RPdumy	dummy lower limit mineralization rate detr-P	1/d	0.001
al_dNdumy	dummy lower limit N:C ratio	gN/gC	0.000
al_dPdumy	dummy lower limit P:C ratio	gP/gC	0.000
au_dNdumy	dummy upper limit N:C ratio	gN/gC	0.000
au_dPdumy	dummy upper limit P:C ratio	gP/gC	0.000
b_p4xdumy	fraction POC4 converted to POCX	-	0.000
b_p4ddumy	fraction POC4 converted to DOC	-	0.000
SWODdummy	option: 0.0 for stripping, 1.0 for different rates	no unit	1.000
b_dcXdumy	fraction DOC converted to POCX	-	0.000
b_dcYdummy	fraction DOC converted to DOCY	-	0.000
ldDet1	identifier for detritus group POC1, POC2, POC3	no unit	1.000
ldDet2	identifier for detritus group POC4 and DOC	no unit	2.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
SWOxCon	Switch: only OxCon 1 or not 0	-	0.000
ScalCar	scale factor for primary variable	-	1.000
FrMPB1S3	fraction MPB1 in layer S3	gC/gDM	0.000
FrMPB2S3	fraction MPB2 in layer S3	gC/gDM	0.000
RcMrtVB08	rate consatant for mortality cohort 8	d	0.010
SwDisVB08	Switch Gr. Distr.VBXX 1cont. 2lin. 3exp.	-	1.000
VegHeVB08	Max Height VB08	m	5.000
FfacVB08	Form factor lin: $F = M_{mean}/M/H_{max}$ VBXX	-	1.000
RootDeVB09	Max Height VB09	m	1.000
CrnsvVB09	critical number successive flood days VB09	d	5.000
SwNutVB09	switch indicating nutrient limitation VB09	-	0.000
nsnlVB09	number of successive days nutrient lim. VB09	d	0.000
CrnslVB09	critical number of successive nut. lim VB09	d	0.000
SwVB09Gro	vegetation biomass growth allowed 0=no,1=yes	-	0.000
SwVB09Mrt	vegetation biomass dead 0=no,1=yes	-	0.000
nsfVB09	nr successive emersionflood VB09	d	0.000
maxVB09	maximum vegetation biomass cohort 3	t/ha	0.000
minVB09	minimum vegetation biomass cohort 3	t/ha	0.000
hlfaVB09	age where biomass is half of maximum cohort 3	d	0.000
sfVB09	shape factor growth curve cohort 3	-	1.000
dmCfVB09	dry matter carbon ratio veg. cohort 3	dm/gC	2.500
iniVB09	initial veg. biomass cohort 3	t/ha	0.000
iniCovVB09	initial veg. coverage cohort 1	%	0.000
SWiniVB09	switch 0=biomass 1=%coverage for cohort 3	-	1.000
VBType09	nr of the vegetation type for warnings	-	9.000
F1VB09	allocation factor comp. 1 stem VB09	-	0.500
F2VB09	allocation factor comp. 2 foliage VB09	-	0.200
F3VB09	allocation factor comp. 3 branch VB09	-	0.000
F4VB09	allocation factor comp. 4 root VB09	-	0.100
F5VB09	allocation factor comp. 5 fineroot VB09	-	0.200
CNf1VB09	carbon-nitrogen ratio in stem VB09	gC/gN	10.000
CNf2VB09	carbon-nitrogen ratio in foliage VB09	gC/gN	10.000
CNf3VB09	carbon-nitrogen ratio in branch VB09	gC/gN	10.000
CNf4VB09	carbon-nitrogen ratio in root VB09	gC/gN	10.000
CNf5VB09	carbon-nitrogen ratio in fineroot VB09	gC/gN	10.000
CPf1VB09	carbon-phosphorus ratio in stem VB09	gC/gP	1.000
CPf2VB09	carbon-phosphorus ratio in foliage VB09	gC/gP	1.000
CPf3VB09	carbon-phosphorus ratio in branch VB09	gC/gP	1.000
CPf4VB09	carbon-phosphorus ratio in root VB09	gC/gP	1.000
CPf5VB09	carbon-phosphorus ratio in fineroot VB09	gC/gP	1.000
CSf1VB09	carbon-sulphur ratio in stem VB09	gC/gS	0.100
CSf2VB09	carbon-sulphur ratio in foliage VB09	gC/gS	0.100
CSf3VB09	carbon-sulphur ratio in branch VB09	gC/gS	0.100
CSf4VB09	carbon-sulphur ratio in root VB09	gC/gS	0.100
CSf5VB09	carbon-sulphur ratio in fineroot	gC/gS	0.100
SWRegrVB09	allow regrowth $y=1, n=0$ after decay	-	1.000
SWVB09Dec	biomass is decaying after prev mort type 9	-	0.000
IniAgeVB09	inital age of VB at start of simulation	d	0.000
IniVB09dec	inital decay Switch VB09 start simulation	-	0.000
RcMrtVB09	rate consatant for mortality cohort 9	d	0.010
SwDisVB09	Switch Gr. Distr.VBXX 1cont. 2lin. 3exp.	-	1.000
VegHeVB09	Max Height VB09	m	3.000
FfacVB09	Form factor lin: $F = M_{mean}/M/H_{max}$ VBXX	-	1.000
FrIM2S3	fraction IM2 in layer S3	gDM/gDM	0.000
FrIM3S3	fraction IM3 in layer S3	gDM/gDM	0.000
ScalPol	Scale factor from mg/kg to g/g	no unit	0.000
QAsDMS3	overall sediment quality for As in S3	mgAs/kgDM	0.000
QCdDMS3	overall sediment quality for Cd in S3	mgCd/kgDM	0.000
QCrDMS3	overall sediment quality for Cr in S3	mgCr/kgDM	0.000
QCuDMS3	overall sediment quality for Cu in S3	mgCu/kgDM	0.000
QHgDMS3	overall sediment quality for Hg in S3	mgHg/kgDM	0.000
QNiDMS3	overall sediment quality for Ni in S3	mgNi/kgDM	0.000
QPbDMS3	overall sediment quality for Pb in S3	mgPb/kgDM	0.000
QVaDMS3	overall sediment quality for Va in S3	mgVa/kgDM	0.000
QZnDMS3	overall sediment quality for Zn in S3	mgZn/kgDM	0.000
Q153DMS3	overall sediment quality for 153 in S3	mg153/kgDM	0.000
QAtrDMS3	overall sediment quality for Atr in S3	mgAtr/kgDM	0.000
QMefDMS3	overall sediment quality for Mef in S3	mgMef/kgDM	0.000
QDiuDMS3	overall sediment quality for Diu in S3	mgDiu/kgDM	0.000
QBaPDMS3	overall sediment quality for BaP in S3	mgBaP/kgDM	0.000
QOMPDMS3	overall sediment quality for OMP in S3	mgOMP/kgDM	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
QFluDMS3	overall sediment quality for Flu in S3	mgFlu/kgDM	0.000
QHCBdMS3	overall sediment quality for HCB in S3	mgHCB/kgDM	0.000
QHCHdMS3	overall sediment quality for HCH in S3	mgHCH/kgDM	0.000
N-CDetCS2	N:C ratio Detritus S2	gN/gC	0.000
P-CDetCS2	P:C ratio Detritus S2	gP/gC	0.000
S-CDetCS2	Si:C ratio Detritus S2	gSi/gC	0.000
N-COOCs2	N:C ratio Other organics S2	gN/gC	0.000
P-COOCs2	P:C ratio Other organics S2	gP/gC	0.000
S-COOCs2	Si:C ratio Other organics S2	gSi/gC	0.000
FrDetNS3	fraction DetN in layer S3	gN/gDM	0.000
FrDetPS3	fraction DetP in layer S3	gP/gDM	0.000
FrDetSiS3	fraction DetSi in layer S3	gSi/gDM	0.000
FrOONS3	fraction OON in layer S3	gN/gDM	0.000
FrOOPS3	fraction OOP in layer S3	gP/gDM	0.000
FrOOSiS3	fraction OOSi in layer S3	gSi/gDM	0.000
FrAAPS2	fraction AAP in layer S2	gP/gDM	0.000
FrAAPS3	fraction AAP in layer S3	gP/gDM	0.000
ExtViods	VL extinction by DOC	1/m	0.000
PAConstant	Poole-Atkins constant	-	1.700
SWTICdummy	dummy option for TIC, do not change value	-	0.000
NCRatDiatS	N:C ratio Diatoms MFB	gN/gC	0.160
PCRatDiatS	P:C ratio Diatoms MFB	gP/gC	0.020
SCRatDiatS	Si:C ratio Diatoms MFB	gSi/gC	0.490
ku_dSdcC20	upper limit mineralization rate slow detr-C	1/d	0.001
kl_dSdcC20	lower limit mineralization rate slow detr-C	1/d	0.001
ku_dFdcC20	upper limit mineralization rate fast detr-C	1/d	0.180
kl_dFdcC20	lower limit mineralization rate fast detr-C	1/d	0.120
ku_dMdcC20	upper limit mineralization rate medium detr-C	1/d	0.015
kl_dMdcC20	lower limit mineralization rate medium detr-C	1/d	0.015
k_dprdcC20	mineralization rate refr. detritus at 20 °C	1/d	0.001
k_DOCdcC20	mineralization rate dissolved detr. at 20 °C	1/d	0.000
ku_P5dcC20	upper limit decay rate POC5 at 20 degrees	1/d	0.100
kl_P5dcC20	lower limit decay rate POC5 at 20 degrees	1/d	0.050
nPOC1	coefficient in flocculation function POC1	-	0.000
EnhSedPOC1	salinity enhanced settling factor for POC1	-	1.000
nPOC2	coefficient in flocculation function POC2	-	0.000
EnhSedPOC2	salinity enhanced settling factor for POC2	-	1.000
nPOC3	coefficient in flocculation function POC3	-	0.000
EnhSedPOC3	salinity enhanced settling factor for POC3	-	1.000
nPOC4	coefficient in flocculation function POC4	-	0.000
EnhSedPOC4	salinity enhanced settling factor for POC4	-	1.000
AddDispH	Additional horizontal dispersion parameter	m ² /s	10.000
SWCLim	Switch for C limitation 0=inactive 1=active	-	0.000
ZGRZMC	Minimum input concentration of Zooplank	gC/m ³	0.010
MGRZMC	Minimum input concentration of Mussel	gC/m ³	0.010
G3GRZMC	Minimum input conc. of Grazer3	gC/m ² √ gC/m ³	0.010
G4GRZMC	Minimum input conc. of Grazer4	gC/m ² √ gC/m ³	0.010
G5GRZMC	Minimum input conc. of Grazer5	gC/m ² √ gC/m ³	0.010
nMacrophyt	number of macrophyte species	-	5.000
HSIEM01	Habitat Suitability Index for EM01	-	0.000
PotEM01	potential biomass for EM01	gC/m ²	0.000
HSISM01	Habitat Suitability Index for SM01	-	0.000
PotSM01	potential biomass for SM01	gC/m ²	0.000
HSIEM02	Habitat Suitability Index for EM02	-	0.000
PotEM02	potential biomass for EM02	gC/m ²	0.000
HSISM02	Habitat Suitability Index for SM02	-	0.000
PotSM02	potential biomass for SM02	gC/m ²	0.000
HSIEM03	Habitat Suitability Index for EM03	-	0.000
PotEM03	potential biomass for EM03	gC/m ²	0.000
HSISM03	Habitat Suitability Index for SM03	-	0.000
PotSM03	potential biomass for SM03	gC/m ²	0.000
HSIEM04	Habitat Suitability Index for EM04	-	0.000
PotEM04	potential biomass for EM04	gC/m ²	0.000
HSISM04	Habitat Suitability Index for SM04	-	0.000
PotSM04	potential biomass for SM04	gC/m ²	0.000
HSIEM05	Habitat Suitability Index for EM05	-	0.000
PotEM05	potential biomass for EM05	gC/m ²	0.000
HSISM05	Habitat Suitability Index for SM05	-	0.000
PotSM05	potential biomass for SM05	gC/m ²	0.000
MaxEM01	maximum biomass for macrophyt emerged 01	gC/m ²	0.000

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Process	Description	Unit	Default
MaxSM01	maximum biomass for macrophyt submerged 01	gC/m ²	0.000
EM01	macrophyt emerged 01	gC/m ²	0.000
EM02	macrophyt emerged 02	gC/m ²	0.000
EM03	macrophyt emerged 03	gC/m ²	0.000
EM04	macrophyt emerged 04	gC/m ²	0.000
EM05	macrophyt emerged 05	gC/m ²	0.000
SM01	macrophyt submerged 01	gC	0.000
SwDisSM01	macrophyt distr. function 1: lin, 2:Exp	-	1.000
HmaxSM01	Max Height SM 01	-	1.000
FfacSM01	Form factor lin: F = Mmean/M/Hmax	-	1.000
SM02	macrophyt submerged 02	gC/m ²	0.000
SwDisSM02	macrophyt distr. function 1: lin, 2:Exp	-	1.000
HmaxSM02	Max Height SM 02	-	1.000
FfacSM02	Form factor lin: F = Mmean/M/Hmax	-	1.000
BmLaySM02	Biomass Layer macrophyt submerged 02	gC/m ³	0.000
SM03	macrophyt submerged 03	gC/m ²	0.000
SwDisSM03	macrophyt distr. function 1: lin, 2:Exp	-	1.000
HmaxSM03	Max Height SM 03	-	1.000
FfacSM03	Form factor lin: F = Mmean/M/Hmax	-	1.000
BmLaySM03	Biomass Layer macrophyt submerged 03	gC/m ³	0.000
SM04	macrophyt submerged 04	gC/m ²	0.000
SwDisSM04	macrophyt distr. function 1: lin, 2:Exp	-	1.000
HmaxSM04	Max Height SM 04	-	1.000
FfacSM04	Form factor lin: F = Mmean/M/Hmax	-	1.000
BmLaySM04	Biomass Layer macrophyt submerged 04	gC/m ³	0.000
SM05	macrophyt submerged 05	gC/m ²	0.000
SwDisSM05	macrophyt distr. function 1: lin, 2:Exp	-	1.000
HmaxSM05	Max Height SM 05	-	1.000
FfacSM05	Form factor lin: F = Mmean/M/Hmax	-	1.000
BmLaySM05	Biomass Layer macrophyt submerged 05	gC/m ³	0.000
ExtVISM01	VL specific extinction coefficient SM01	m ² /gC	0.200
ExtVISM02	VL specific extinction coefficient SM02	m ² /gC	0.200
ExtVISM03	VL specific extinction coefficient SM03	m ² /gC	0.200
ExtVISM04	VL specific extinction coefficient SM04	m ² /gC	0.200
ExtVISM05	VL specific extinction coefficient SM05	m ² /gC	0.200
ExtUVSM01	UV specific extinction coefficient SM01	m ² /gC	0.200
ExtUVSM02	UV specific extinction coefficient SM02	m ² /gC	0.200
ExtUVSM03	UV specific extinction coefficient SM03	m ² /gC	0.200
ExtUVSM04	UV specific extinction coefficient SM04	m ² /gC	0.200
ExtUVSM05	UV specific extinction coefficient SM05	m ² /gC	0.200
RadSatSM01	total radiation growth saturation SM01	W/m ²	30.000
LimRadSM01	radiation limitation function SM01 <0-1>	-	1.000
RadSatSM02	total radiation growth saturation SM02	W/m ²	30.000
LimRadSM02	radiation limitation function SM02 <0-1>	-	1.000
RadSatSM03	total radiation growth saturation SM03	W/m ²	30.000
LimRadSM03	radiation limitation function SM03 <0-1>	-	1.000
RadSatSM04	total radiation growth saturation SM04	W/m ²	30.000
LimRadSM04	radiation limitation function SM04 <0-1>	-	1.000
RadSatSM05	total radiation growth saturation SM05	W/m ²	30.000
LimRadSM05	radiation limitation function SM05 <0-1>	-	1.000
RootDeSM01	Rooting depth SM01	m	0.100
PrfNH4SM01	ammonium preferency over nitrate SM01	-	1.000
KMDINSM01W	half-saturation value N SM01 in water	gN/m ³	0.005
KMPISM01W	half-saturation value P SM01 in water	gP/m ³	0.001
KMDINSM01B	half-saturation value N SM01 in bottom	gN/m ³	0.005
KMPISM01B	half-saturation value P SM01 in bottom	gP/m ³	0.001
LimNutSM01	nutrient limitation function SM01 <0-1>	-	1.000
FrootNSM01	fraction root uptake nitrogen SM01	-	0.000
FrootPSM01	fraction root uptake phosphorus SM01	-	0.000
RootDeSM02	Rooting depth SM02	m	0.100
PrfNH4SM02	ammonium preferency over nitrate SM02	-	1.000
KMDINSM02W	half-saturation value N SM02 in water	gN/m ³	0.005
KMPISM02W	half-saturation value P SM02 in water	gP/m ³	0.001
KMDINSM02B	half-saturation value N SM02 in bottom	gN/m ³	0.005
KMPISM02B	half-saturation value P SM02 in bottom	gP/m ³	0.001
FrootNSM02	fraction root uptake nitrogen SM02	-	0.000
FrootPSM02	fraction root uptake phosphorus SM02	-	0.000
RootDeSM03	Rooting depth SM03	m	0.100
PrfNH4SM03	ammonium preferency over nitrate SM03	-	1.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
KMDINSM03W	half-saturation value N SM03 in water	gN/m ³	0.005
KMPISM03W	half-saturation value P SM03 in water	gP/m ³	0.001
KMDINSM03B	half-saturation value N SM03 in bottom	gN/m ³	0.005
KMPISM03B	half-saturation value P SM03 in bottom	gP/m ³	0.001
LimNutSM03	nutrient limitation function SM03 <0-1>	-	1.000
FrootNSM03	fraction root uptake nitrogen SM03	-	0.000
FrootPSM03	fraction root uptake phosphorus SM03	-	0.000
RootDeSM04	Rooting depth SM04	m	0.100
PrfNH4SM04	ammonium preference over nitrate SM04	-	1.000
KMDINSM04W	half-saturation value N SM04 in water	gN/m ³	0.005
KMPISM04W	half-saturation value P SM04 in water	gP/m ³	0.001
KMDINSM04B	half-saturation value N SM04 in bottom	gN/m ³	0.005
KMPISM04B	half-saturation value P SM04 in bottom	gP/m ³	0.001
LimNutSM04	nutrient limitation function SM04 <0-1>	-	1.000
FrootNSM04	fraction root uptake nitrogen SM04	-	0.000
FrootPSM04	fraction root uptake phosphorus SM04	-	0.000
RootDeSM05	Rooting depth SM05	m	0.100
PrfNH4SM05	ammonium preference over nitrate SM05	-	1.000
KMDINSM05W	half-saturation value N SM05 in water	gN/m ³	0.005
KMPISM05W	half-saturation value P SM05 in water	gP/m ³	0.001
KMDINSM05B	half-saturation value N SM05 in bottom	gN/m ³	0.005
KMPISM05B	half-saturation value P SM05 in bottom	gP/m ³	0.001
LimNutSM05	nutrient limitation function SM05 <0-1>	-	1.000
FrootNSM05	fraction root uptake nitrogen SM05	-	0.000
FrootPSM05	fraction root uptake phosphorus SM05	-	0.000
RH01	macrophyt rhizome 01	gC/m ²	0.000
NRH01	nitrogen content macrophyt rhizome 01	gN/m ²	0.000
PRH01	phosphorus content macrophyt rhizome 01	gP/m ²	0.000
PPmaxEM01	potential growth rate macrophyt emerged 01	1/d	0.000
PPmaxSM01	potential growth rate macrophyt submerged 01	1/d	0.000
EM01thresh	threshold biomass EM01 in growth	gC/m ²	0.000
SM01thresh	threshold biomass SM01 in growth	gC/m ²	0.000
RH01min	minimal biomass RH01	gC/m ²	0.000
NRH01min	minimal NRH01	gN/m ²	0.000
PRH01min	minimal PRH01	gP/m ²	0.000
NH4crEM01	critical NH4 conc. macrophyt emerged 01	gN/m ³	0.000
NO3crEM01	critical NO3 conc. macrophyt emerged 01	gN/m ³	0.000
PO4crEM01	critical PO4 conc. macrophyt emerged 01	gN/m ³	0.000
CO2crSM01	critical CO2 conc. macrophyt submerged 01	g/m ³	0.000
MinDLEM01	minimal daylength for growth EM01	d	0.000
OptDLEM01	daylength for growth saturation EM01	d	0.580
MinDLSM01	minimal daylength for growth SM01	d	0.000
OptDLSM01	daylength for growth saturation SM01	d	0.580
TcritEM01	critical temperature for growth EM01	°C	0.000
TcPMxEM01	temperature coefficient for growth EM01	-	1.060
TcritSM01	critical temperature for growth SM01	°C	0.000
TcPMxSM01	temperature coefficient for growth SM01	-	1.060
K1DecaEM01	first order autumn decay rate EM01	1/d	0.000
TcDecaEM01	temperature coefficient for decay EM01	-	1.060
K1DecaSM01	first order autumn decay rate SM01	1/d	0.000
TcDecaSM01	temperature coefficient for decay SM01	-	1.060
FrEMtoRH01	fraction EM that becomes RH01	-	0.500
FrSMtoRH01	fraction SM that becomes RH01	-	0.500
NCRatEM01	N:C ratio EM01	gN/gC	0.200
PCRatEM01	P:C ratio EM01	gP/gC	0.020
NCRatSM01	N:C ratio SM01	gN/gC	0.200
PCRatSM01	P:C ratio SM01	gP/gC	0.020
NCRatRH01	N:C ratio RH01	gN/gC	0.200
PCRatRH01	P:C ratio RH01	gP/gC	0.020
FrPOC1EM01	fraction of decay EM01 that becomes POC1	-	1.000
FrPOC2EM01	fraction of decay EM01 that becomes POC2	-	0.000
FrPOC3EM01	fraction of decay EM01 that becomes POC3	-	0.000
FrPOC1SM01	fraction of decay SM01 that becomes POC1	-	1.000
FrPOC2SM01	fraction of decay SM01 that becomes POC2	-	0.000
FrPOC3SM01	fraction of decay SM01 that becomes POC3	-	0.000
dNupSM01	uptake flux nitrogen SM01	gN/m ³ /d	0.000
dPupSM01	uptake flux phosphorus SM01	gP/m ³ /d	0.000
dSM01OXY	oxygen production SM01	gO/m ³ /d	0.000
dSM01CO2	CO2 uptake SM01	gO/m ³ /d	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
NH4CrSM01	critical NH4 concentration for uptake SM01	gN/m ³	0.010
RH02	macrophyt rhizome 02	gC/m ²	0.000
NRH02	nitrogen content macrophyt rhizome 02	gN/m ²	0.000
PRH02	phosphorus content macrophyt rhizome 02	gP/m ²	0.000
PPmaxEM02	potential growth rate macrophyt emerged 02	1/d	0.000
PPmaxSM02	potential growth rate macrophyt submerged 02	1/d	0.000
EM02thresh	threshold biomass EM02 in growth	gC/m ²	0.000
SM02thresh	threshold biomass SM02 in growth	gC/m ²	0.000
RH02min	minimal biomass RH02	gC/m ²	0.000
NRH02min	minimal NRH02	gN/m ²	0.000
PRH02min	minimal PRH02	gP/m ²	0.000
NH4crEM02	critical NH4 conc. macrophyt emerged 02	gN/m ³	0.000
NO3crEM02	critical NO3 conc. macrophyt emerged 02	gN/m ³	0.000
PO4crEM02	critical PO4 conc. macrophyt emerged 02	gN/m ³	0.000
CO2crSM02	critical CO2 conc. macrophyt submerged 02	g/m ³	0.000
MinDLEM02	minimal daylength for growth EM02	d	0.000
OptDLEM02	daylength for growth saturation EM02	d	0.580
MinDLSM02	minimal daylength for growth SM02	d	0.000
OptDLSM02	daylength for growth saturation SM02	d	0.580
TcritEM02	critical temperature for growth EM02	°C	0.000
TcPMxEM02	temperature coefficient for growth EM02	-	1.060
TcritSM02	critical temperature for growth SM02	°C	0.000
TcPMxSM02	temperature coefficient for growth SM02	-	1.060
K1DecaEM02	first order autumn decay rate EM02	1/d	0.000
TcDecaEM02	temperature coefficient for decay EM02	-	1.060
K1DecaSM02	first order autumn decay rate SM02	1/d	0.000
TcDecaSM02	temperature coefficient for decay SM02	-	1.060
FrEMtoRH02	fraction EM that becomes RH02	-	0.500
FrSMtoRH02	fraction SM that becomes RH02	-	0.500
NCRatEM02	N:C ratio EM02	gN/gC	0.200
PCRatEM02	P:C ratio EM02	gP/gC	0.020
NCRatSM02	N:C ratio SM02	gN/gC	0.200
PCRatSM02	P:C ratio SM02	gP/gC	0.020
NCRatRH02	N:C ratio RH02	gN/gC	0.200
PCRatRH02	P:C ratio RH02	gP/gC	0.020
FrPOC1EM02	fraction of decay EM02 that becomes POC1	-	1.000
FrPOC2EM02	fraction of decay EM02 that becomes POC2	-	0.000
FrPOC3EM02	fraction of decay EM02 that becomes POC3	-	0.000
FrPOC1SM02	fraction of decay SM02 that becomes POC1	-	1.000
FrPOC2SM02	fraction of decay SM02 that becomes POC2	-	0.000
FrPOC3SM02	fraction of decay SM02 that becomes POC3	-	0.000
dNupSM02	uptake flux nitrogen SM02	gN/m ³ /d	0.000
dPupSM02	uptake flux phosphorus SM02	gP/m ³ /d	0.000
dSM02OXY	oxygen production SM02	gO/m ³ /d	0.000
dSM02CO2	CO2 uptake SM02	gO/m ³ /d	0.000
NH4CrSM02	critical NH4 concentration for uptake SM02	gN/m ³	0.010
RH03	macrophyt rhizome 03	gC/m ²	0.000
NRH03	nitrogen content macrophyt rhizome 03	gN/m ²	0.000
PRH03	phosphorus content macrophyt rhizome 03	gP/m ²	0.000
PPmaxEM03	potential growth rate macrophyt emerged 03	1/d	0.000
PPmaxSM03	potential growth rate macrophyt submerged 03	1/d	0.000
EM03thresh	threshold biomass EM03 in growth	gC/m ²	0.000
SM03thresh	threshold biomass SM03 in growth	gC/m ²	0.000
RH03min	minimal biomass RH03	gC/m ²	0.000
NRH03min	minimal NRH03	gN/m ²	0.000
PRH03min	minimal PRH03	gP/m ²	0.000
NH4crEM03	critical NH4 conc. macrophyt emerged 03	gN/m ³	0.000
NO3crEM03	critical NO3 conc. macrophyt emerged 03	gN/m ³	0.000
PO4crEM03	critical PO4 conc. macrophyt emerged 03	gN/m ³	0.000
CO2crSM03	critical CO2 conc. macrophyt submerged 03	g/m ³	0.000
MinDLEM03	minimal daylength for growth EM03	d	0.000
OptDLEM03	daylength for growth saturation EM03	d	0.580
MinDLSM03	minimal daylength for growth SM03	d	0.000
OptDLSM03	daylength for growth saturation SM03	d	0.580
TcritEM03	critical temperature for growth EM03	°C	0.000
TcPMxEM03	temperature coefficient for growth EM03	-	1.060
TcritSM03	critical temperature for growth SM03	°C	0.000
TcPMxSM03	temperature coefficient for growth SM03	-	1.060
K1DecaEM03	first order autumn decay rate EM03	1/d	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
TcDecaEM03	temperature coefficient for decay EM03	-	1.060
K1DecaSM03	first order autumn decay rate SM03	1/d	0.000
TcDecaSM03	temperature coefficient for decay SM03	-	1.060
FrEMtoRH03	fraction EM that becomes RH03	-	0.500
FrSMtoRH03	fraction SM that becomes RH03	-	0.500
NCRatEM03	N:C ratio EM03	gN/gC	0.200
PCRatEM03	P:C ratio EM03	gP/gC	0.020
NCRatSM03	N:C ratio SM03	gN/gC	0.200
PCRatSM03	P:C ratio SM03	gP/gC	0.020
NCRatRH03	N:C ratio RH03	gN/gC	0.200
PCRatRH03	P:C ratio RH03	gP/gC	0.020
FrPOC1EM03	fraction of decay EM03 that becomes POC1	-	1.000
FrPOC2EM03	fraction of decay EM03 that becomes POC2	-	0.000
FrPOC3EM03	fraction of decay EM03 that becomes POC3	-	0.000
FrPOC1SM03	fraction of decay SM03 that becomes POC1	-	1.000
FrPOC2SM03	fraction of decay SM03 that becomes POC2	-	0.000
FrPOC3SM03	fraction of decay SM03 that becomes POC3	-	0.000
dNupSM03	uptake flux nitrogen SM03	gN/m ³ /d	0.000
dPupSM03	uptake flux phosphorus SM03	gP/m ³ /d	0.000
NH4CrSM03	critical NH4 concentration for uptake SM03	gN/m ³	0.010
RH04	macrophyt rhizome 04	gC/m ²	0.000
NRH04	nitrogen content macrophyt rhizome 04	gN/m ²	0.000
PRH04	phosphorus content macrophyt rhizome 04	gP/m ²	0.000
PPmaxEM04	potential growth rate macrophyt emerged 04	1/d	0.000
PPmaxSM04	potential growth rate macrophyt submerged 04	1/d	0.000
EM04thresh	threshold biomass EM04 in growth	gC/m ²	0.000
SM04thresh	threshold biomass SM04 in growth	gC/m ²	0.000
RH04min	minimal biomass RH04	gC/m ²	0.000
NRH04min	minimal NRH04	gN/m ²	0.000
PRH04min	minimal PRH04	gP/m ²	0.000
NH4crEM04	critical NH4 conc. macrophyt emerged 04	gN/m ³	0.000
NO3crEM04	critical NO3 conc. macrophyt emerged 04	gN/m ³	0.000
PO4crEM04	critical PO4 conc. macrophyt emerged 04	gN/m ³	0.000
CO2crSM04	critical CO2 conc. macrophyt submerged 04	g/m ³	0.000
MinDLEM04	minimal daylength for growth EM04	d	0.000
OptDLEM04	daylength for growth saturation EM04	d	0.580
MinDLSM04	minimal daylength for growth EM04	d	0.000
OptDLSM04	daylength for growth saturation EM04	d	0.580
TcritEM04	critical temperature for growth EM04	°C	0.000
TcPMxEM04	temperature coefficient for growth EM04	-	1.060
TcritSM04	critical temperature for growth SM04	°C	0.000
TcPMxSM04	temperature coefficient for growth SM04	-	1.060
K1DecaEM04	first order autumn decay rate EM04	1/d	0.000
TcDecaEM04	temperature coefficient for decay EM04	-	1.060
K1DecaSM04	first order autumn decay rate SM04	1/d	0.000
TcDecaSM04	temperature coefficient for decay SM04	-	1.060
FrEMtoRH04	fraction EM that becomes RH04	-	0.500
FrSMtoRH04	fraction SM that becomes RH04	-	0.500
NCRatEM04	N:C ratio EM04	gN/gC	0.200
PCRatEM04	P:C ratio EM04	gP/gC	0.020
NCRatSM04	N:C ratio SM04	gN/gC	0.200
PCRatSM04	P:C ratio SM04	gP/gC	0.020
NCRatRH04	N:C ratio RH04	gN/gC	0.200
PCRatRH04	P:C ratio RH04	gP/gC	0.020
FrPOC1EM04	fraction of decay EM04 that becomes POC1	-	1.000
FrPOC2EM04	fraction of decay EM04 that becomes POC2	-	0.000
FrPOC3EM04	fraction of decay EM04 that becomes POC3	-	0.000
FrPOC1SM04	fraction of decay SM04 that becomes POC1	-	1.000
FrPOC2SM04	fraction of decay SM04 that becomes POC2	-	0.000
FrPOC3SM04	fraction of decay SM04 that becomes POC3	-	0.000
dNupSM04	uptake flux nitrogen SM04	gN/m ³ /d	0.000
dPupSM04	uptake flux phosphorus SM04	gP/m ³ /d	0.000
NH4CrSM04	critical NH4 concentration for uptake SM04	gN/m ³	0.010
RH05	macrophyt rhizome 05	gC/m ²	0.000
NRH05	nitrogen content macrophyt rhizome 05	gN/m ²	0.000
PRH05	phosphorus content macrophyt rhizome 05	gP/m ²	0.000
PPmaxEM05	potential growth rate macrophyt emerged 05	1/d	0.000
PPmaxSM05	potential growth rate macrophyt submerged 05	1/d	0.000
EM05thresh	threshold biomass EM05 in growth	gC/m ²	0.000
SM05thresh	threshold biomass SM05 in growth	gC/m ²	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
RH05min	minimal biomass RH05	gC/m ²	0.000
NRH05min	minimal NRH05	gN/m ²	0.000
PRH05min	minimal PRH05	gP/m ²	0.000
NH4crEM05	critical NH4 conc. macrophyte emerged 05	gN/m ³	0.000
NO3crEM05	critical NO3 conc. macrophyte emerged 05	gN/m ³	0.000
PO4crEM05	critical PO4 conc. macrophyte emerged 05	gN/m ³	0.000
CO2crSM05	critical CO2 conc. macrophyte submerged 05	g/m ³	0.000
MinDLEM05	minimal daylength for growth EM05	d	0.000
OptDLEM05	daylength for growth saturation EM05	d	0.580
MinDLSM05	minimal daylength for growth SM05	d	0.000
OptDLSM05	daylength for growth saturation SM05	d	0.580
TcritEM05	critical temperature for growth EM05	°C	0.000
TcPMxEM05	temperature coefficient for growth EM05	-	1.060
TcritSM05	critical temperature for growth SM05	°C	0.000
TcPMxSM05	temperature coefficient for growth SM05	-	1.060
K1DecaEM05	first order autumn decay rate EM05	1/d	0.000
TcDecaEM05	temperature coefficient for decay EM05	-	1.060
K1DecaSM05	first order autumn decay rate SM05	1/d	0.000
TcDecaSM05	temperature coefficient for decay SM05	-	1.060
FrEMtoRH05	fraction EM that becomes RH05	-	0.500
FrSMtoRH05	fraction SM that becomes RH05	-	0.500
NCRatEM05	N:C ratio EM05	gN/gC	0.200
PCRatEM05	P:C ratio EM05	gP/gC	0.020
NCRatSM05	N:C ratio SM05	gN/gC	0.200
PCRatSM05	P:C ratio SM05	gP/gC	0.020
NCRatRH05	N:C ratio RH05	gN/gC	0.200
PCRatRH05	P:C ratio RH05	gP/gC	0.020
FrPOC1EM05	fraction of decay EM05 that becomes POC1	-	1.000
FrPOC2EM05	fraction of decay EM05 that becomes POC2	-	0.000
FrPOC3EM05	fraction of decay EM05 that becomes POC3	-	0.000
FrPOC1SM05	fraction of decay SM05 that becomes POC1	-	1.000
FrPOC2SM05	fraction of decay SM05 that becomes POC2	-	0.000
FrPOC3SM05	fraction of decay SM05 that becomes POC3	-	0.000
dNupSM05	uptake flux nitrogen SM05	gN/m ³ /d	0.000
dPupSM05	uptake flux phosphorus SM05	gP/m ³ /d	0.000
NH4CrSM05	critical NH4 concentration for uptake SM05	gN/m ³	0.010
K0GrzEM01	zeroth-order grazing flux macrophyte EM01	gC/(m ² d)	0.000
K1GrzEM01	first order grazing rate macrophyte EM01	1/d	0.000
K0GrzSM01	zeroth-order grazing flux macrophyte SM01	gC/(m ² d)	0.000
K1GrzSM01	first order grazing rate macrophyte SM01	1/d	0.000
K0GrzRH01	zeroth-order grazing flux macrophyte RH01	gC/(m ² d)	0.000
K1GrzRH01	first order grazing rate macrophyte RH01	1/d	0.000
K0GrzEM02	zeroth-order grazing flux macrophyte EM02	gC/(m ² d)	0.000
K1GrzEM02	first order grazing rate macrophyte EM02	1/d	0.000
K0GrzSM02	zeroth-order grazing flux macrophyte SM02	gC/(m ² d)	0.000
K1GrzSM02	first order grazing rate macrophyte SM02	1/d	0.000
K0GrzRH02	zeroth-order grazing flux macrophyte RH02	gC/(m ² d)	0.000
K1GrzRH02	first order grazing rate macrophyte RH02	1/d	0.000
K0GrzEM03	zeroth-order grazing flux macrophyte EM03	gC/(m ² d)	0.000
K1GrzEM03	first order grazing rate macrophyte EM03	1/d	0.000
K0GrzSM03	zeroth-order grazing flux macrophyte SM03	gC/(m ² d)	0.000
K1GrzSM03	first order grazing rate macrophyte SM03	1/d	0.000
K0GrzRH03	zeroth-order grazing flux macrophyte RH03	gC/(m ² d)	0.000
K1GrzRH03	first order grazing rate macrophyte RH03	1/d	0.000
K0GrzEM04	zeroth-order grazing flux macrophyte EM04	gC/(m ² d)	0.000
K1GrzEM04	first order grazing rate macrophyte EM04	1/d	0.000
K0GrzSM04	zeroth-order grazing flux macrophyte SM04	gC/(m ² d)	0.000
K1GrzSM04	first order grazing rate macrophyte SM04	1/d	0.000
K0GrzRH04	zeroth-order grazing flux macrophyte RH04	gC/(m ² d)	0.000
K1GrzRH04	first order grazing rate macrophyte RH04	1/d	0.000
K0GrzEM05	zeroth-order grazing flux macrophyte EM05	gC/(m ² d)	0.000
K1GrzEM05	first order grazing rate macrophyte EM05	1/d	0.000
K0GrzSM05	zeroth-order grazing flux macrophyte SM05	gC/(m ² d)	0.000
K1GrzSM05	first order grazing rate macrophyte SM05	1/d	0.000
K0GrzRH05	zeroth-order grazing flux macrophyte RH05	gC/(m ² d)	0.000
K1GrzRH05	first order grazing rate macrophyte RH05	1/d	0.000
K0HrvEM01	zeroth-order harvesting macrophyte EM01	gC/(m ² d)	0.000
K1HrvEM01	first order harvesting rate macrophyte EM01	1/d	0.000
K0HrvSM01	zeroth-order harvesting macrophyte SM01	gC/(m ² d)	0.000
K1HrvSM01	first order harvesting rate macrophyte SM01	1/d	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
K0HrvRH01	zeroth-order harvesting macrophyte RH01	gC/(m ² d)	0.000
K1HrvRH01	first order harvesting rate macrophyte RH01	1/d	0.000
K0HrvEM02	zeroth-order harvesting macrophyte EM02	gC/(m ² d)	0.000
K1HrvEM02	first order harvesting rate macrophyte EM02	1/d	0.000
K0HrvSM02	zeroth-order harvesting macrophyte SM02	gC/(m ² d)	0.000
K1HrvSM02	first order harvesting rate macrophyte SM02	1/d	0.000
K0HrvRH02	zeroth-order harvesting macrophyte RH02	gC/(m ² d)	0.000
K1HrvRH02	first order harvesting rate macrophyte RH02	1/d	0.000
K0HrvEM03	zeroth-order harvesting macrophyte EM03	gC/(m ² d)	0.000
K1HrvEM03	first order harvesting rate macrophyte EM03	1/d	0.000
K0HrvSM03	zeroth-order harvesting macrophyte SM03	gC/(m ² d)	0.000
K1HrvSM03	first order harvesting rate macrophyte SM03	1/d	0.000
K0HrvRH03	zeroth-order harvesting macrophyte RH03	gC/(m ² d)	0.000
K1HrvRH03	first order harvesting rate macrophyte RH03	1/d	0.000
K0HrvEM04	zeroth-order harvesting macrophyte EM04	gC/(m ² d)	0.000
K1HrvEM04	first order harvesting rate macrophyte EM04	1/d	0.000
K0HrvSM04	zeroth-order harvesting macrophyte SM04	gC/(m ² d)	0.000
K1HrvSM04	first order harvesting rate macrophyte SM04	1/d	0.000
K0HrvRH04	zeroth-order harvesting macrophyte RH04	gC/(m ² d)	0.000
K1HrvRH04	first order harvesting rate macrophyte RH04	1/d	0.000
K0HrvEM05	zeroth-order harvesting macrophyte EM05	gC/(m ² d)	0.000
K1HrvEM05	first order harvesting rate macrophyte EM05	1/d	0.000
K0HrvSM05	zeroth-order harvesting macrophyte SM05	gC/(m ² d)	0.000
K1HrvSM05	first order harvesting rate macrophyte SM05	1/d	0.000
K0HrvRH05	zeroth-order harvesting macrophyte RH05	gC/(m ² d)	0.000
K1HrvRH05	first order harvesting rate macrophyte RH05	1/d	0.000
M_SwV1	use 0 [ISO-morphs] or 1 [V1-morphs]	-	1.000
M_SwBEN	Use 0 [pelagic] or 1 [benthic] for DEB Mussel	-	1.000
Mussel_E	conc energy reserve of DEB Mussel	gC/m ³ ∨ gC/m ²	0.000
Mussel_R	conc gonadal mass of DEB Mussel	gC/m ³ ∨ gC/m ²	0.000
Mussel_N	number of individual DEB Mussel	#/m ³ ∨ #/m ²	1.000
M_Lref	ref length of DEB Mussel only for V1morphs	cm	3.000
M_Dummy	dummy constant for DEB Mussel	-	1.000
M_Vb	volume at birth individual DEB Mussel	cm ³	0.000
M_Vp	volume at start of repro stage ind DEB Mussel	cm ³	0.060
M_shape	shape coefficient of DEB Mussel	-	0.287
M_Em	maximum storage density of DEB Mussel	J/cm ³	2190.000
M_Eg	volume-spec costs for growth of DEB Mussel	J/cm ³	1900.000
M_Pm	respiration rate constant of DEB Mussel	J/d	30.700
M_JXm	max ingestion rate of DEB Mussel	J/(cm ² d)	196.800
M_kappal	ingestion efficiency of DEB Mussel	-	1.000
M_kappaA	assimilation efficiency of DEB Mussel	-	0.750
M_kappa	fraction of energy spent on growth DEB Mussel	-	0.700
M_kappaR	fraction of energy spent on gonads DEB Mussel	-	0.800
M_Ta	arrhenius temperature of DEB Mussel	K	5800.000
M_Tah	arr temp for upper boundary DEB Mussel	K	31376.000
M_Tal	arr temp for lower boundary DEB Mussel	K	45430.000
M_Th	upper boundary of tolerance range of DEB Mussel	K	296.000
M_Tl	lower boundary of tolerance range of DEB Mussel	K	275.000
M_GSlupr	minimum GSI for spawning of DEB Mussel	-	0.280
M_GSlwr	minimum GSI while spawning of DEB Mussel	-	0.100
M_DoSpawn	indication of spawning of DEB Mussel	-	0.000
M_rSpawn	spawning rate of DEB Mussel	-	0.020
M_MinSTmp	minimum temperature for spawning of DEB Mussel	°C	15.000
M_Xk	halfrate const for food of DEB Mussel	gC/m ³	0.223
M_Yk	halfrate const for TIM of DEB Mussel	gC/m ³	100.000
M_rMor	reference mortality rate of DEB Mussel	/d	0.005
M_cMor	length coefficient harvesting rate DEB Mussel	/d	0.000
M_rHrv	reference rate of harvesting of DEB Mussel	/d	0.000
M_cHrv	length coefficient harvesting rate DEB Mussel	/d	0.000
M_cEC	energy to carbon conversion of DEB Mussel	gC/J	0.000
M_cVC	volume to carbon conversion of DEB Mussel	gC/cm ³	0.048
M_cAFWC	AFD weight to carbon conv of DEB Mussel	gC/gAFDW	0.400
M_cWWC	wetweight to carbon conv of DEB Mussel	gC/gWW	0.022
M_TC	C:C ratio of DEB Mussel	gC/gC	1.000
M_TN	N:C ratio of DEB Mussel	gN/gC	0.182
M_TP	P:C ratio of DEB Mussel	gP/gC	0.026
M_TSi	Si:C ratio of DEB Mussel	Si/gC	0.000
M_FrDetS1	fraction of DEB Mussel detritus into sediment	-	1.000
M_SFSSusp	DEB Mussel pref suspension over deposit feeding	-	1.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
M_PrDet	DEB Mussel preference for DetC or POC1	-	0.000
M_PrDetS1	DEB Mussel preference for DetCS1	-	0.000
M_FFDet	Faecal fraction of DetC for DEB Mussel	-	0.500
M_FFDetS1	Faecal fraction of DetCS1 for DEB Mussel	-	0.500
POSi1	dummy fast detritus silicium	gSi/m ³	0.000
F1	Dummy food type 1	gC	0.000
F2	Dummy food type 2	gC	0.000
F3	Dummy food type 3	gC	0.000
F4	Dummy food type 4	gC	0.000
F5	Dummy food type 5	gC	0.000
F6	Dummy food type 6	gC	0.000
F7	Dummy food type 7	gC	0.000
F8	Dummy food type 8	gC	0.000
NCRatF1	N:C ratio Dummy food type 1	gN/gC	0.400
NCRatF2	N:C ratio Dummy food type 2	gN/gC	0.400
NCRatF3	N:C ratio Dummy food type 3	gN/gC	0.400
NCRatF4	N:C ratio Dummy food type 4	gN/gC	0.400
NCRatF5	N:C ratio Dummy food type 5	gN/gC	0.400
NCRatF6	N:C ratio Dummy food type 6	gN/gC	0.400
NCRatF7	N:C ratio Dummy food type 7	gN/gC	0.400
NCRatF8	N:C ratio Dummy food type 8	gN/gC	0.400
PCRatF1	P:C ratio Dummy food type 1	gP/gC	0.020
PCRatF2	P:C ratio Dummy food type 2	gP/gC	0.020
PCRatF3	P:C ratio Dummy food type 3	gP/gC	0.020
PCRatF4	P:C ratio Dummy food type 4	gP/gC	0.020
PCRatF5	P:C ratio Dummy food type 5	gP/gC	0.020
PCRatF6	P:C ratio Dummy food type 6	gP/gC	0.020
PCRatF7	P:C ratio Dummy food type 7	gP/gC	0.020
PCRatF8	P:C ratio Dummy food type 8	gP/gC	0.020
SCRatF1	Si:C ratio Dummy food type 1	gSi/gC	0.000
SCRatF2	Si:C ratio Dummy food type 2	gSi/gC	0.000
SCRatF3	Si:C ratio Dummy food type 3	gSi/gC	0.000
SCRatF4	Si:C ratio Dummy food type 4	gSi/gC	0.000
SCRatF5	Si:C ratio Dummy food type 5	gSi/gC	0.000
SCRatF6	Si:C ratio Dummy food type 6	gSi/gC	0.000
SCRatF7	Si:C ratio Dummy food type 7	gSi/gC	0.000
SCRatF8	Si:C ratio Dummy food type 8	gSi/gC	0.000
M_PrGrn	Preference of DEB Mussel for Greens	-	1.000
M_PrDiat	Preference of DEB Mussel for Diatoms	-	1.000
M_PrAlg01	Preference of DEB Mussel for algae type 01	-	1.000
M_PrAlg02	Preference of DEB Mussel for algae type 02	-	1.000
M_PrAlg03	Preference of DEB Mussel for algae type 03	-	1.000
M_PrAlg04	Preference of DEB Mussel for algae type 04	-	1.000
M_PrAlg05	Preference of DEB Mussel for algae type 05	-	1.000
M_PrAlg06	Preference of DEB Mussel for algae type 06	-	1.000
M_PrAlg07	Preference of DEB Mussel for algae type 07	-	1.000
M_PrAlg08	Preference of DEB Mussel for algae type 08	-	1.000
M_PrAlg09	Preference of DEB Mussel for algae type 09	-	1.000
M_PrAlg10	Preference of DEB Mussel for algae type 10	-	1.000
M_PrAlg11	Preference of DEB Mussel for algae type 11	-	1.000
M_PrAlg12	Preference of DEB Mussel for algae type 12	-	1.000
M_PrAlg13	Preference of DEB Mussel for algae type 13	-	1.000
M_PrAlg14	Preference of DEB Mussel for algae type 14	-	1.000
M_PrAlg15	Preference of DEB Mussel for algae type 15	-	1.000
M_PrAlg16	Preference of DEB Mussel for algae type 16	-	1.000
M_PrAlg17	Preference of DEB Mussel for algae type 17	-	1.000
M_PrAlg18	Preference of DEB Mussel for algae type 18	-	1.000
M_PrAlg19	Preference of DEB Mussel for algae type 19	-	1.000
M_PrAlg20	Preference of DEB Mussel for algae type 20	-	1.000
M_PrAlg21	Preference of DEB Mussel for algae type 21	-	1.000
M_PrAlg22	Preference of DEB Mussel for algae type 22	-	1.000
M_PrAlg23	Preference of DEB Mussel for algae type 23	-	1.000
M_PrAlg24	Preference of DEB Mussel for algae type 24	-	1.000
M_PrAlg25	Preference of DEB Mussel for algae type 25	-	1.000
M_PrAlg26	Preference of DEB Mussel for algae type 26	-	1.000
M_PrAlg27	Preference of DEB Mussel for algae type 27	-	1.000
M_PrAlg28	Preference of DEB Mussel for algae type 28	-	1.000
M_PrAlg29	Preference of DEB Mussel for algae type 29	-	1.000
M_PrAlg30	Preference of DEB Mussel for algae type 30	-	1.000
M_Pr1	Preference of DEB Mussel for Dummy Food1	-	0.000
M_Pr2	Preference of DEB Mussel for Dummy Food2	-	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
M_Pr3	Preference of DEB Mussel for Dummy Food3	-	0.000
M_Pr4	Preference of DEB Mussel for Dummy Food4	-	0.000
M_Pr5	Preference of DEB Mussel for Dummy Food5	-	0.000
M_Pr6	Preference of DEB Mussel for Dummy Food6	-	0.000
M_Pr7	Preference of DEB Mussel for Dummy Food7	-	0.000
M_Pr8	Preference of DEB Mussel for Dummy Food8	-	0.000
BenGrn	Use 0 [pelagic] or 1 [benthic] Greens	-	0.000
BenDiat	Use 0 [pelagic] or 1 [benthic] Diatoms	-	0.000
BenAlg01	Use 0 [pelagic] or 1 [benthic] algae type 01	-	0.000
BenAlg02	Use 0 [pelagic] or 1 [benthic] algae type 02	-	0.000
BenAlg03	Use 0 [pelagic] or 1 [benthic] algae type 03	-	0.000
BenAlg04	Use 0 [pelagic] or 1 [benthic] algae type 04	-	0.000
BenAlg05	Use 0 [pelagic] or 1 [benthic] algae type 05	-	0.000
BenAlg06	Use 0 [pelagic] or 1 [benthic] algae type 06	-	0.000
BenAlg07	Use 0 [pelagic] or 1 [benthic] algae type 07	-	0.000
BenAlg08	Use 0 [pelagic] or 1 [benthic] algae type 08	-	0.000
BenAlg09	Use 0 [pelagic] or 1 [benthic] algae type 09	-	0.000
BenAlg10	Use 0 [pelagic] or 1 [benthic] algae type 10	-	0.000
BenAlg11	Use 0 [pelagic] or 1 [benthic] algae type 11	-	0.000
BenAlg12	Use 0 [pelagic] or 1 [benthic] algae type 12	-	0.000
BenAlg13	Use 0 [pelagic] or 1 [benthic] algae type 13	-	0.000
BenAlg14	Use 0 [pelagic] or 1 [benthic] algae type 14	-	0.000
BenAlg15	Use 0 [pelagic] or 1 [benthic] algae type 15	-	0.000
BenAlg16	Use 0 [pelagic] or 1 [benthic] algae type 16	-	0.000
BenAlg17	Use 0 [pelagic] or 1 [benthic] algae type 17	-	0.000
BenAlg18	Use 0 [pelagic] or 1 [benthic] algae type 18	-	0.000
BenAlg19	Use 0 [pelagic] or 1 [benthic] algae type 19	-	0.000
BenAlg20	Use 0 [pelagic] or 1 [benthic] algae type 20	-	0.000
BenAlg21	Use 0 [pelagic] or 1 [benthic] algae type 21	-	0.000
BenAlg22	Use 0 [pelagic] or 1 [benthic] algae type 22	-	0.000
BenAlg23	Use 0 [pelagic] or 1 [benthic] algae type 23	-	0.000
BenAlg24	Use 0 [pelagic] or 1 [benthic] algae type 24	-	0.000
BenAlg25	Use 0 [pelagic] or 1 [benthic] algae type 25	-	0.000
BenAlg26	Use 0 [pelagic] or 1 [benthic] algae type 26	-	0.000
BenAlg27	Use 0 [pelagic] or 1 [benthic] algae type 27	-	0.000
BenAlg28	Use 0 [pelagic] or 1 [benthic] algae type 28	-	0.000
BenAlg29	Use 0 [pelagic] or 1 [benthic] algae type 29	-	0.000
BenAlg30	Use 0 [pelagic] or 1 [benthic] algae type 30	-	0.000
Ben1	Use 0 [pelagic] or 1 [benthic] Dummy Food1	-	1.000
Ben2	Use 0 [pelagic] or 1 [benthic] Dummy Food2	-	1.000
Ben3	Use 0 [pelagic] or 1 [benthic] Dummy Food3	-	1.000
Ben4	Use 0 [pelagic] or 1 [benthic] Dummy Food4	-	1.000
Ben5	Use 0 [pelagic] or 1 [benthic] Dummy Food5	-	1.000
Ben6	Use 0 [pelagic] or 1 [benthic] Dummy Food6	-	1.000
Ben7	Use 0 [pelagic] or 1 [benthic] Dummy Food7	-	1.000
Ben8	Use 0 [pelagic] or 1 [benthic] Dummy Food8	-	1.000
M_FFGrn	Faecal fraction Greens for DEB Mussel	-	0.500
M_FFDiat	Faecal fraction Diatoms for DEB Mussel	-	0.500
M_ALGFF01	Faecal fraction Alg01 for DEB Mussel	-	0.500
M_ALGFF02	Faecal fraction Alg02 for DEB Mussel	-	0.500
M_ALGFF03	Faecal fraction Alg03 for DEB Mussel	-	0.500
M_ALGFF04	Faecal fraction Alg04 for DEB Mussel	-	0.500
M_ALGFF05	Faecal fraction Alg05 for DEB Mussel	-	0.500
M_ALGFF06	Faecal fraction Alg06 for DEB Mussel	-	0.500
M_ALGFF07	Faecal fraction Alg07 for DEB Mussel	-	0.500
M_ALGFF08	Faecal fraction Alg08 for DEB Mussel	-	0.500
M_ALGFF09	Faecal fraction Alg09 for DEB Mussel	-	0.500
M_ALGFF10	Faecal fraction Alg10 for DEB Mussel	-	0.500
M_ALGFF11	Faecal fraction Alg11 for DEB Mussel	-	0.500
M_ALGFF12	Faecal fraction Alg12 for DEB Mussel	-	0.500
M_ALGFF13	Faecal fraction Alg13 for DEB Mussel	-	0.500
M_ALGFF14	Faecal fraction Alg14 for DEB Mussel	-	0.500
M_ALGFF15	Faecal fraction Alg15 for DEB Mussel	-	0.500
M_ALGFF16	Faecal fraction Alg16 for DEB Mussel	-	0.500
M_ALGFF17	Faecal fraction Alg17 for DEB Mussel	-	0.500
M_ALGFF18	Faecal fraction Alg18 for DEB Mussel	-	0.500
M_ALGFF19	Faecal fraction Alg19 for DEB Mussel	-	0.500
M_ALGFF20	Faecal fraction Alg20 for DEB Mussel	-	0.500
M_ALGFF21	Faecal fraction Alg21 for DEB Mussel	-	0.500
M_ALGFF22	Faecal fraction Alg22 for DEB Mussel	-	0.500
M_ALGFF23	Faecal fraction Alg23 for DEB Mussel	-	0.500

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
M_ALGFF24	Faecal fraction Alg24 for DEB Mussel	-	0.500
M_ALGFF25	Faecal fraction Alg25 for DEB Mussel	-	0.500
M_ALGFF26	Faecal fraction Alg26 for DEB Mussel	-	0.500
M_ALGFF27	Faecal fraction Alg27 for DEB Mussel	-	0.500
M_ALGFF28	Faecal fraction Alg28 for DEB Mussel	-	0.500
M_ALGFF29	Faecal fraction Alg29 for DEB Mussel	-	0.500
M_ALGFF30	Faecal fraction Alg30 for DEB Mussel	-	0.500
M_FF01	Faecal fraction Dummy Food1 for DEB Mussel	-	0.500
M_FF02	Faecal fraction Dummy Food2 for DEB Mussel	-	0.500
M_FF03	Faecal fraction Dummy Food3 for DEB Mussel	-	0.500
M_FF04	Faecal fraction Dummy Food4 for DEB Mussel	-	0.500
M_FF05	Faecal fraction Dummy Food5 for DEB Mussel	-	0.500
M_FF06	Faecal fraction Dummy Food6 for DEB Mussel	-	0.500
M_FF07	Faecal fraction Dummy Food7 for DEB Mussel	-	0.500
M_FF08	Faecal fraction Dummy Food8 for DEB Mussel	-	0.500
Z_SwV1	use 0 [ISO-morphs] or 1 [V1-morphs]	-	1.000
Z_SwBEN	Use 0 [pelagic] or 1 [benthic] for DEB Zoopl	-	0.000
Zoopl_E	conc energy reserves of DEB Zoopl	gC/m ³ ∨ gC/m ²	1.000
Zoopl_R	conc gonadal biomass of DEB Zoopl	gC/m ³ ∨ gC/m ²	0.000
Zoopl_N	nr of individuals DEB Zooplankton	#/m ³ ∨ #/m ²	100000.000
Z_Lref	ref length of DEB Zoopl only for V1 morphs	cm	0.050
Z_Dummy	dummy constant for DEB Zooplankton	-	1.000
Z_Vb	volume at birth of individual DEB Zooplankter	cm ³	0.000
Z_Vp	volume at start of repro stage ind DEB Zoopl	cm ³	0.000
Z_shape	shape coefficient of DEB Zooplankton	-	0.314
Z_Em	maximum storage density of DEB Zooplankton	J/cm ³	3347.000
Z_Eg	volume-spec costs for growth of DEB Zoopl	J/cm ³	3173.000
Z_Pm	respiration rate constant of DEB Zooplankton	J/d	480.000
Z_JXm	max ingestion rate of DEB Zooplankton	J/c(m ² d)	58.500
Z_kappal	ingestion efficiency of DEB Zooplankton	-	1.000
Z_kappaA	assimilation efficiency of DEB Zooplankton	-	1.000
Z_kappa	fraction of energy spent on growth DEB Zoopl	-	0.900
Z_kappaR	fraction of energy spent on gonads DEB Zoopl	-	0.950
Z_Ta	arrhenius temperature of DEB Zooplankton	K	8000.000
Z_Tah	arr temp for upper boundary DEB Zooplankton	K	190000.000
Z_Tal	arr temp for lower boundary DEB Zooplankton	K	50000.000
Z_Th	upper boundary of tolerance range of DEB Zoopl	K	400.000
Z_Tl	lower boundary of tolerance range of DEB Zoopl	K	273.000
Z_GSlupr	minimum GSI for spawning of DEB Zooplankton	-	0.093
Z_GSllwr	minimum GSI while spawning of DEB Zooplankton	-	0.001
Z_DoSpawn	indication of spawning of DEB Zooplankton	-	0.000
Z_rSpawn	spawning rate of DEB Zooplankton	-	0.105
Z_MinSTmp	minimum temperature for spawning of DEB Zoopl	°C	10.000
Z_Xk	halfrate const for food of DEB Zooplankton	gC/m ³	0.040
Z_Yk	halfrate const for TIM of DEB Zooplankton	gC/m ³	100000.000
Z_rMor	reference mortality rate of DEB Zooplankton	/d	0.200
Z_cMor	length coefficient harvesting rate DEB Zoopl	/d	0.000
Z_rHrv	reference rate of harvesting of DEB Zoopl	/d	0.000
Z_cHrv	length coefficient harvesting rate DEB Zoopl	/d	0.000
Z_cEC	energy to carbon conversion of DEB Zoopl	gC/J	0.000
Z_cVC	volume to carbon conversion of DEB Zoopl	gC/cm ³	0.060
Z_cAFWC	AFD weight to carbon conv of DEB Zoopl	gC/gAFDW	0.400
Z_cWWC	wetweight to carbon conv of DEB Zoopl	gC/gWW	0.005
Z_TC	C:C ratio of DEB Zooplankton	gC/gC	1.000
Z_TN	N:C ratio of DEB Zooplankton	gN/gC	0.182
Z_TP	P:C ratio of DEB Zooplankton	gP/gC	0.026
Z_TSi	Si:C ratio of DEB Zooplankton	Si/gC	0.000
Z_FrDetS1	fraction of DEB Zoopl detritus into sediment	-	0.000
Z_SFSusp	DEB Zoopl pref suspension over deposit feeding	-	1.000
Z_PrDet	DEB Zoopl preference for DetC or POC1	-	0.000
Z_PrDetS1	DEB Zoopl preference for DetCS1	-	0.000
Z_FFDet	Faecal fraction of DetC for DEB Zooplankton	-	0.500
Z_FFDetS1	Faecal fraction of DetCS1 for DEB Zooplankton	-	0.500
Z_PrGrn	Preference of DEB Zooplankton for Greens	-	1.000
Z_PrDiat	Preference of DEB Zooplankton for Diatoms	-	1.000
Z_PrAlg01	Preference of DEB Zooplankton for algae type 01	-	0.850
Z_PrAlg02	Preference of DEB Zooplankton for algae type 02	-	0.850
Z_PrAlg03	Preference of DEB Zooplankton for algae type 03	-	0.850
Z_PrAlg04	Preference of DEB Zooplankton for algae type 04	-	0.500
Z_PrAlg05	Preference of DEB Zooplankton for algae type 05	-	0.500

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
Z_PrAlg06	Preference of DEB Zooplankton for algae type 06	-	0.500
Z_PrAlg07	Preference of DEB Zooplankton for algae type 07	-	0.100
Z_PrAlg08	Preference of DEB Zooplankton for algae type 08	-	0.100
Z_PrAlg09	Preference of DEB Zooplankton for algae type 09	-	0.100
Z_PrAlg10	Preference of DEB Zooplankton for algae type 10	-	0.300
Z_PrAlg11	Preference of DEB Zooplankton for algae type 11	-	0.300
Z_PrAlg12	Preference of DEB Zooplankton for algae type 12	-	0.300
Z_PrAlg13	Preference of DEB Zooplankton for algae type 13	-	1.000
Z_PrAlg14	Preference of DEB Zooplankton for algae type 14	-	1.000
Z_PrAlg15	Preference of DEB Zooplankton for algae type 15	-	1.000
Z_PrAlg16	Preference of DEB Zooplankton for algae type 16	-	1.000
Z_PrAlg17	Preference of DEB Zooplankton for algae type 17	-	1.000
Z_PrAlg18	Preference of DEB Zooplankton for algae type 18	-	1.000
Z_PrAlg19	Preference of DEB Zooplankton for algae type 19	-	1.000
Z_PrAlg20	Preference of DEB Zooplankton for algae type 20	-	1.000
Z_PrAlg21	Preference of DEB Zooplankton for algae type 21	-	1.000
Z_PrAlg22	Preference of DEB Zooplankton for algae type 22	-	1.000
Z_PrAlg23	Preference of DEB Zooplankton for algae type 23	-	1.000
Z_PrAlg24	Preference of DEB Zooplankton for algae type 24	-	1.000
Z_PrAlg25	Preference of DEB Zooplankton for algae type 25	-	1.000
Z_PrAlg26	Preference of DEB Zooplankton for algae type 26	-	1.000
Z_PrAlg27	Preference of DEB Zooplankton for algae type 27	-	1.000
Z_PrAlg28	Preference of DEB Zooplankton for algae type 28	-	1.000
Z_PrAlg29	Preference of DEB Zooplankton for algae type 29	-	1.000
Z_PrAlg30	Preference of DEB Zooplankton for algae type 30	-	1.000
Z_Pr1	Preference of DEB Zooplankton for Dummy Food1	-	0.000
Z_Pr2	Preference of DEB Zooplankton for Dummy Food2	-	0.000
Z_Pr3	Preference of DEB Zooplankton for Dummy Food3	-	0.000
Z_Pr4	Preference of DEB Zooplankton for Dummy Food4	-	0.000
Z_Pr5	Preference of DEB Zooplankton for Dummy Food5	-	0.000
Z_Pr6	Preference of DEB Zooplankton for Dummy Food6	-	0.000
Z_Pr7	Preference of DEB Zooplankton for Dummy Food7	-	0.000
Z_Pr8	Preference of DEB Zooplankton for Dummy Food8	-	0.000
Z_FFGrn	Faecal fraction Greens for DEB Zooplankton	-	0.500
Z_FFDi	Faecal fraction Diatoms for DEB Zooplankton	-	0.500
Z_ALGFF01	Faecal fraction Alg01 for DEB Zooplankton	-	0.500
Z_ALGFF02	Faecal fraction Alg02 for DEB Zooplankton	-	0.500
Z_ALGFF03	Faecal fraction Alg03 for DEB Zooplankton	-	0.500
Z_ALGFF04	Faecal fraction Alg04 for DEB Zooplankton	-	0.500
Z_ALGFF05	Faecal fraction Alg05 for DEB Zooplankton	-	0.500
Z_ALGFF06	Faecal fraction Alg06 for DEB Zooplankton	-	0.500
Z_ALGFF07	Faecal fraction Alg07 for DEB Zooplankton	-	0.500
Z_ALGFF08	Faecal fraction Alg08 for DEB Zooplankton	-	0.500
Z_ALGFF09	Faecal fraction Alg09 for DEB Zooplankton	-	0.500
Z_ALGFF10	Faecal fraction Alg10 for DEB Zooplankton	-	0.500
Z_ALGFF11	Faecal fraction Alg11 for DEB Zooplankton	-	0.500
Z_ALGFF12	Faecal fraction Alg12 for DEB Zooplankton	-	0.500
Z_ALGFF13	Faecal fraction Alg13 for DEB Zooplankton	-	0.500
Z_ALGFF14	Faecal fraction Alg14 for DEB Zooplankton	-	0.500
Z_ALGFF15	Faecal fraction Alg15 for DEB Zooplankton	-	0.500
Z_ALGFF16	Faecal fraction Alg16 for DEB Zooplankton	-	0.500
Z_ALGFF17	Faecal fraction Alg17 for DEB Zooplankton	-	0.500
Z_ALGFF18	Faecal fraction Alg18 for DEB Zooplankton	-	0.500
Z_ALGFF19	Faecal fraction Alg19 for DEB Zooplankton	-	0.500
Z_ALGFF20	Faecal fraction Alg20 for DEB Zooplankton	-	0.500
Z_ALGFF21	Faecal fraction Alg21 for DEB Zooplankton	-	0.500
Z_ALGFF22	Faecal fraction Alg22 for DEB Zooplankton	-	0.500
Z_ALGFF23	Faecal fraction Alg23 for DEB Zooplankton	-	0.500
Z_ALGFF24	Faecal fraction Alg24 for DEB Zooplankton	-	0.500
Z_ALGFF25	Faecal fraction Alg25 for DEB Zooplankton	-	0.500
Z_ALGFF26	Faecal fraction Alg26 for DEB Zooplankton	-	0.500
Z_ALGFF27	Faecal fraction Alg27 for DEB Zooplankton	-	0.500
Z_ALGFF28	Faecal fraction Alg28 for DEB Zooplankton	-	0.500
Z_ALGFF29	Faecal fraction Alg29 for DEB Zooplankton	-	0.500
Z_ALGFF30	Faecal fraction Alg30 for DEB Zooplankton	-	0.500
Z_FF01	Faecal fraction Dummy Food1 for DEB Zoopl	-	0.500
Z_FF02	Faecal fraction Dummy Food2 for DEB Zoopl	-	0.500
Z_FF03	Faecal fraction Dummy Food3 for DEB Zoopl	-	0.500
Z_FF04	Faecal fraction Dummy Food4 for DEB Zoopl	-	0.500
Z_FF05	Faecal fraction Dummy Food5 for DEB Zoopl	-	0.500
Z_FF06	Faecal fraction Dummy Food6 for DEB Zoopl	-	0.500

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
Z_FF07	Faecal fraction Dummy Food7 for DEB Zoopl	-	0.500
Z_FF08	Faecal fraction Dummy Food8 for DEB Zoopl	-	0.500
G3_SwV1	use 0 [ISO-morphs] or 1 [V1-morphs]	-	0.000
G3_SwBEN	Use 0 [pelagic] or 1 [benthic] for DEB Grazer3	-	2.000
Grazer3_V	conc struct biomass of DEB Grazer3	$\text{gC/m}^3 \vee \text{gC/m}^2$	0.003
Grazer3_E	conc energy reserve of DEB Grazer3	$\text{gC/m}^3 \vee \text{gC/m}^2$	1.000
Grazer3_R	conc gonadal mass of DEB Grazer3	$\text{gC/m}^3 \vee \text{gC/m}^2$	0.000
Grazer3_N	number of individuals DEB Grazer3	$\#/\text{m}^3 \vee \#/\text{m}^2$	1.000
G3_Lref	ref length of DEB Grazer3 only for V1morphs	cm	0.100
G3_Dummy	dummy constant for DEB Grazer3	-	0.000
G3_Vb	volume at birth of individual DEB Grazer3	cm^3	0.000
G3_Vp	volume at start of repr stage ind DEB Grazer3	cm^3	0.060
G3_shape	shape coefficient of DEB Grazer3	-	0.287
G3_Em	maximum storage density of DEB Grazer3	J/cm^3	2190.000
G3_Eg	volume-spec costs for growth of DEB Grazer3	J/cm^3	1900.000
G3_Pm	respiration rate constant of DEB Grazer3	J/d	30.700
G3_JXm	max ingestion rate of DEB Grazer3	$\text{J/c}(\text{m}^2 \text{ d})$	196.800
G3_kappal	ingestion efficiency of DEB Grazer3	-	1.000
G3_kappaA	assimilation efficiency of DEB Grazer3	-	0.750
G3_kappa	fraction of energy spent on growth DEB Grazer3	-	0.700
G3_kappaR	fraction of energy spent on gonads DEB Grazer3	-	0.800
G3-Ta	arrhenius temperature of DEB Grazer3	K	5800.000
G3_Tah	arr temp for upper boundary DEB Grazer3	K	31376.000
G3_Tal	arr temp for lower boundary DEB Grazer3	K	45430.000
G3_Th	upper boundary of tol range of DEB Grazer3	K	296.000
G3_Tl	lower boundary of tol range of DEB Grazer3	K	275.000
G3_GSlupr	minimum GSI for spawning of DEB Grazer3	-	0.280
G3_GSllwr	minimum GSI while spawning of DEB Grazer3	-	0.100
G3_DoSpawn	indication of spawning of DEB Grazer3	-	0.000
G3_rSpawn	spawning rate of DEB Grazer3	-	0.020
G3_MinSTmp	minimum temp for spawning of DEB Grazer3	$^{\circ}\text{C}$	15.000
G3_Xk	halfrate const for food of DEB Grazer3	gC/m^3	0.223
G3_Yk	halfrate const for TIM of DEB Grazer3	gC/m^3	100.000
G3_rMor	reference mortality rate of DEB Grazer3	/d	0.000
G3_cMor	length coefficient harvesting rate DEB Grazer3	/d	0.000
G3_rHrv	reference rate of harvesting of DEB Grazer3	/d	0.000
G3_cHrv	length coefficient harvesting rate DEB Grazer3	/d	0.000
G3_cEC	energy to carbon conversion of DEB Grazer3	gC/J	0.000
G3_cVC	volume to carbon conversion of DEB Grazer3	gC/cm^3	0.048
G3_cAFWC	AFD weight to carbon conv of DEB Grazer3	gC/gAFDW	0.400
G3_cWWC	wetweight to carbon conv of DEB Grazer3	gC/gWW	0.022
G3_TC	C:C ratio of DEB Grazer3	gC/gC	1.000
G3_TN	N:C ratio of DEB Grazer3	gN/gC	0.182
G3_TP	P:C ratio of DEB Grazer3	gP/gC	0.026
G3_TSi	Si:C ratio of DEB Grazer3	Si/gC	0.000
G3_FrDetS1	fraction of DEB Grazer3 detritus into sediment	-	1.000
G3_SFSusp	DEB Grazer3 pref suspension over deposit feedin	-	1.000
G3_PrDet	DEB Grazer3 preference for DetC or POC1	-	0.000
G3_PrDetS1	DEB Grazer3 preference for DetCS1	-	0.000
G3_FFDet	Faecal fraction of DetC for DEB Grazer3	-	0.500
G3_FFDetS1	Faecal fraction of DetCS1 for DEB Grazer3	-	0.500
G3_PrGrn	Preference of DEB Grazer3 for Greens	-	1.000
G3_PrDiat	Preference of DEB Grazer3 for Diatoms	-	1.000
G3_PrAlg01	Preference of DEB Grazer3 for algae type 01	-	1.000
G3_PrAlg02	Preference of DEB Grazer3 for algae type 02	-	1.000
G3_PrAlg03	Preference of DEB Grazer3 for algae type 03	-	1.000
G3_PrAlg04	Preference of DEB Grazer3 for algae type 04	-	1.000
G3_PrAlg05	Preference of DEB Grazer3 for algae type 05	-	1.000
G3_PrAlg06	Preference of DEB Grazer3 for algae type 06	-	1.000
G3_PrAlg07	Preference of DEB Grazer3 for algae type 07	-	1.000
G3_PrAlg08	Preference of DEB Grazer3 for algae type 08	-	1.000
G3_PrAlg09	Preference of DEB Grazer3 for algae type 09	-	1.000
G3_PrAlg10	Preference of DEB Grazer3 for algae type 10	-	1.000
G3_PrAlg11	Preference of DEB Grazer3 for algae type 11	-	1.000
G3_PrAlg12	Preference of DEB Grazer3 for algae type 12	-	1.000
G3_PrAlg13	Preference of DEB Grazer3 for algae type 13	-	1.000
G3_PrAlg14	Preference of DEB Grazer3 for algae type 14	-	1.000
G3_PrAlg15	Preference of DEB Grazer3 for algae type 15	-	1.000
G3_PrAlg16	Preference of DEB Grazer3 for algae type 16	-	1.000
G3_PrAlg17	Preference of DEB Grazer3 for algae type 17	-	1.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
G3_PrAlg18	Preference of DEB Grazer3 for algae type 18	-	1.000
G3_PrAlg19	Preference of DEB Grazer3 for algae type 19	-	1.000
G3_PrAlg20	Preference of DEB Grazer3 for algae type 20	-	1.000
G3_PrAlg21	Preference of DEB Grazer3 for algae type 21	-	1.000
G3_PrAlg22	Preference of DEB Grazer3 for algae type 22	-	1.000
G3_PrAlg23	Preference of DEB Grazer3 for algae type 23	-	1.000
G3_PrAlg24	Preference of DEB Grazer3 for algae type 24	-	1.000
G3_PrAlg25	Preference of DEB Grazer3 for algae type 25	-	1.000
G3_PrAlg26	Preference of DEB Grazer3 for algae type 26	-	1.000
G3_PrAlg27	Preference of DEB Grazer3 for algae type 27	-	1.000
G3_PrAlg28	Preference of DEB Grazer3 for algae type 28	-	1.000
G3_PrAlg29	Preference of DEB Grazer3 for algae type 29	-	1.000
G3_PrAlg30	Preference of DEB Grazer3 for algae type 30	-	1.000
G3_Pr1	Preference of DEB Grazer3 for Dummy Food1	-	0.000
G3_Pr2	Preference of DEB Grazer3 for Dummy Food2	-	0.000
G3_Pr3	Preference of DEB Grazer3 for Dummy Food3	-	0.000
G3_Pr4	Preference of DEB Grazer3 for Dummy Food4	-	0.000
G3_Pr5	Preference of DEB Grazer3 for Dummy Food5	-	0.000
G3_Pr6	Preference of DEB Grazer3 for Dummy Food6	-	0.000
G3_Pr7	Preference of DEB Grazer3 for Dummy Food7	-	0.000
G3_Pr8	Preference of DEB Grazer3 for Dummy Food8	-	0.000
G3_FFGrn	Faecal fraction Greens for DEB Grazer3	-	0.500
G3_FFDi	Faecal fraction Diatoms for DEB Grazer3	-	0.500
G3_ALGFF01	Faecal fraction Alg01 for DEB Grazer3	-	0.500
G3_ALGFF02	Faecal fraction Alg02 for DEB Grazer3	-	0.500
G3_ALGFF03	Faecal fraction Alg03 for DEB Grazer3	-	0.500
G3_ALGFF04	Faecal fraction Alg04 for DEB Grazer3	-	0.500
G3_ALGFF05	Faecal fraction Alg05 for DEB Grazer3	-	0.500
G3_ALGFF06	Faecal fraction Alg06 for DEB Grazer3	-	0.500
G3_ALGFF07	Faecal fraction Alg07 for DEB Grazer3	-	0.500
G3_ALGFF08	Faecal fraction Alg08 for DEB Grazer3	-	0.500
G3_ALGFF09	Faecal fraction Alg09 for DEB Grazer3	-	0.500
G3_ALGFF10	Faecal fraction Alg10 for DEB Grazer3	-	0.500
G3_ALGFF11	Faecal fraction Alg11 for DEB Grazer3	-	0.500
G3_ALGFF12	Faecal fraction Alg12 for DEB Grazer3	-	0.500
G3_ALGFF13	Faecal fraction Alg13 for DEB Grazer3	-	0.500
G3_ALGFF14	Faecal fraction Alg14 for DEB Grazer3	-	0.500
G3_ALGFF15	Faecal fraction Alg15 for DEB Grazer3	-	0.500
G3_ALGFF16	Faecal fraction Alg16 for DEB Grazer3	-	0.500
G3_ALGFF17	Faecal fraction Alg17 for DEB Grazer3	-	0.500
G3_ALGFF18	Faecal fraction Alg18 for DEB Grazer3	-	0.500
G3_ALGFF19	Faecal fraction Alg19 for DEB Grazer3	-	0.500
G3_ALGFF20	Faecal fraction Alg20 for DEB Grazer3	-	0.500
G3_ALGFF21	Faecal fraction Alg21 for DEB Grazer3	-	0.500
G3_ALGFF22	Faecal fraction Alg22 for DEB Grazer3	-	0.500
G3_ALGFF23	Faecal fraction Alg23 for DEB Grazer3	-	0.500
G3_ALGFF24	Faecal fraction Alg24 for DEB Grazer3	-	0.500
G3_ALGFF25	Faecal fraction Alg25 for DEB Grazer3	-	0.500
G3_ALGFF26	Faecal fraction Alg26 for DEB Grazer3	-	0.500
G3_ALGFF27	Faecal fraction Alg27 for DEB Grazer3	-	0.500
G3_ALGFF28	Faecal fraction Alg28 for DEB Grazer3	-	0.500
G3_ALGFF29	Faecal fraction Alg29 for DEB Grazer3	-	0.500
G3_ALGFF30	Faecal fraction Alg30 for DEB Grazer3	-	0.500
G3_FF01	Faecal fraction Dummy Food1 for DEB Grazer3	-	0.500
G3_FF02	Faecal fraction Dummy Food2 for DEB Grazer3	-	0.500
G3_FF03	Faecal fraction Dummy Food3 for DEB Grazer3	-	0.500
G3_FF04	Faecal fraction Dummy Food4 for DEB Grazer3	-	0.500
G3_FF05	Faecal fraction Dummy Food5 for DEB Grazer3	-	0.500
G3_FF06	Faecal fraction Dummy Food6 for DEB Grazer3	-	0.500
G3_FF07	Faecal fraction Dummy Food7 for DEB Grazer3	-	0.500
G3_FF08	Faecal fraction Dummy Food8 for DEB Grazer3	-	0.500
G4_SwV1	use 0 [ISO-morphs] or 1 [V1-morphs]	-	0.000
G4_SwBEN	Use 0 [pelagic] or 1 [benthic] for DEB Grazer4	-	2.000
Grazer4_V	conc struct biomass of DEB Grazer4	gC/m ³ ∨ gC/m ²	0.190
Grazer4_E	conc energy reserve of DEB Grazer4	gC/m ³ ∨ gC/m ²	1.000
Grazer4_R	conc gonadal mass of DEB Grazer4	gC/m ³ ∨ gC/m ²	0.000
Grazer4_N	number of individuals DEB Grazer4	#/m ³ ∨ #/m ²	1.000
G4_Lref	ref length of DEB Grazer4 only for V1morphs	cm	0.100
G4_Dummy	dummy constant for DEB Grazer4	-	1.000
G4_Vb	volume at birth of individual DEB Grazer4	cm ³	0.000
G4_Vp	volume at start of repr stage ind DEB Grazer4	cm ³	0.060

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
G4_shape	shape coefficient of DEB Grazer4	-	0.287
G4_Em	maximum storage density of DEB Grazer4	J/cm ³	2190.000
G4_Eg	volume-spec costs for growth of DEB Grazer4	J/cm ³	1900.000
G4_Pm	respiration rate constant of DEB Grazer4	J/d	30.700
G4_JXm	max ingestion rate of DEB Grazer4	J/c(m ² d)	196.800
G4_kappal	ingestion efficiency of DEB Grazer4	-	1.000
G4_kappaA	assimilation efficiency of DEB Grazer4	-	0.750
G4_kappa	fraction of energy spent on growth DEB Grazer4	-	0.700
G4_kappaR	fraction of energy spent on gonads DEB Grazer4	-	0.800
G4-Ta	arrhenius temperature of DEB Grazer4	K	5800.000
G4_Tah	arr temp for upper boundary DEB Grazer4	K	31376.000
G4_Tal	arr temp for lower boundary DEB Grazer4	K	45430.000
G4_Th	upper boundary of tol range of DEB Grazer4	K	296.000
G4_Tl	lower boundary of tol range of DEB Grazer4	K	275.000
G4_GSlupr	minimum GSI for spawning of DEB Grazer4	-	0.280
G4_GSIwlr	minimum GSI while spawning of DEB Grazer4	-	0.100
G4_DoSpawn	indication of spawning of DEB Grazer4	-	0.000
G4_rSpawn	spawning rate of DEB Grazer4	-	0.020
G4_MinSTmp	minimum temp for spawning of DEB Grazer4	°C	15.000
G4_Xk	halfrate const for food of DEB Grazer4	gC/m ³	0.223
G4_Yk	halfrate const for TIM of DEB Grazer4	gC/m ³	100.000
G4_rMor	reference mortality rate of DEB Grazer4	/d	0.000
G4_cMor	length coefficient harvesting rate DEB Grazer4	/d	0.000
G4_rHrv	reference rate of harvesting of DEB Grazer4	/d	0.000
G4_cHrv	length coefficient harvesting rate DEB Grazer4	/d	0.000
G4_cEC	energy to carbon conversion of DEB Grazer4	gC/J	0.000
G4_cVC	volume to carbon conversion of DEB Grazer4	gC/cm ³	0.048
G4_cAFWC	AFD weight to carbon conv of DEB Grazer4	gC/gAFDW	0.400
G4_cWWC	wetweight to carbon conv of DEB Grazer4	gC/gWW	0.022
G4_TC	C:C ratio of DEB Grazer4	gC/gC	1.000
G4_TN	N:C ratio of DEB Grazer4	gN/gC	0.182
G4_TP	P:C ratio of DEB Grazer4	gP/gC	0.026
G4_TSi	Si:C ratio of DEB Grazer4	Si/gC	0.000
G4_FrDetS1	fraction of DEB Grazer4 detritus into sediment	-	1.000
G4_SFSusp	DEB Grazer4 pref suspension over deposit feedin	-	1.000
G4_PrDet	DEB Grazer4 preference for DetC or POC1	-	0.000
G4_PrDetS1	DEB Grazer4 preference for DetCS1	-	0.000
G4_FFDet	Faecal fraction of DetC for DEB Grazer4	-	0.500
G4_FFDetS1	Faecal fraction of DetCS1 for DEB Grazer4	-	0.500
G4_PrGrn	Preference of DEB Grazer4 for Greens	-	1.000
G4_PrDiat	Preference of DEB Grazer4 for Diatoms	-	1.000
G4_PrAlg01	Preference of DEB Grazer4 for algae type 01	-	1.000
G4_PrAlg02	Preference of DEB Grazer4 for algae type 02	-	1.000
G4_PrAlg03	Preference of DEB Grazer4 for algae type 03	-	1.000
G4_PrAlg04	Preference of DEB Grazer4 for algae type 04	-	1.000
G4_PrAlg05	Preference of DEB Grazer4 for algae type 05	-	1.000
G4_PrAlg06	Preference of DEB Grazer4 for algae type 06	-	1.000
G4_PrAlg07	Preference of DEB Grazer4 for algae type 07	-	1.000
G4_PrAlg08	Preference of DEB Grazer4 for algae type 08	-	1.000
G4_PrAlg09	Preference of DEB Grazer4 for algae type 09	-	1.000
G4_PrAlg10	Preference of DEB Grazer4 for algae type 10	-	1.000
G4_PrAlg11	Preference of DEB Grazer4 for algae type 11	-	1.000
G4_PrAlg12	Preference of DEB Grazer4 for algae type 12	-	1.000
G4_PrAlg13	Preference of DEB Grazer4 for algae type 13	-	1.000
G4_PrAlg14	Preference of DEB Grazer4 for algae type 14	-	1.000
G4_PrAlg15	Preference of DEB Grazer4 for algae type 15	-	1.000
G4_PrAlg16	Preference of DEB Grazer4 for algae type 16	-	1.000
G4_PrAlg17	Preference of DEB Grazer4 for algae type 17	-	1.000
G4_PrAlg18	Preference of DEB Grazer4 for algae type 18	-	1.000
G4_PrAlg19	Preference of DEB Grazer4 for algae type 19	-	1.000
G4_PrAlg20	Preference of DEB Grazer4 for algae type 20	-	1.000
G4_PrAlg21	Preference of DEB Grazer4 for algae type 21	-	1.000
G4_PrAlg22	Preference of DEB Grazer4 for algae type 22	-	1.000
G4_PrAlg23	Preference of DEB Grazer4 for algae type 23	-	1.000
G4_PrAlg24	Preference of DEB Grazer4 for algae type 24	-	1.000
G4_PrAlg25	Preference of DEB Grazer4 for algae type 25	-	1.000
G4_PrAlg26	Preference of DEB Grazer4 for algae type 26	-	1.000
G4_PrAlg27	Preference of DEB Grazer4 for algae type 27	-	1.000
G4_PrAlg28	Preference of DEB Grazer4 for algae type 28	-	1.000
G4_PrAlg29	Preference of DEB Grazer4 for algae type 29	-	1.000
G4_PrAlg30	Preference of DEB Grazer4 for algae type 30	-	1.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
G4_Pr1	Preference of DEB Grazer4 for Dummy Food1	-	0.000
G4_Pr2	Preference of DEB Grazer4 for Dummy Food2	-	0.000
G4_Pr3	Preference of DEB Grazer4 for Dummy Food3	-	0.000
G4_Pr4	Preference of DEB Grazer4 for Dummy Food4	-	0.000
G4_Pr5	Preference of DEB Grazer4 for Dummy Food5	-	0.000
G4_Pr6	Preference of DEB Grazer4 for Dummy Food6	-	0.000
G4_Pr7	Preference of DEB Grazer4 for Dummy Food7	-	0.000
G4_Pr8	Preference of DEB Grazer4 for Dummy Food8	-	0.000
G4_FFGrn	Faecal fraction Greens for DEB Grazer4	-	0.500
G4_FFDiat	Faecal fraction Diatoms for DEB Grazer4	-	0.500
G4_ALGFF01	Faecal fraction Alg01 for DEB Grazer4	-	0.500
G4_ALGFF02	Faecal fraction Alg02 for DEB Grazer4	-	0.500
G4_ALGFF03	Faecal fraction Alg03 for DEB Grazer4	-	0.500
G4_ALGFF04	Faecal fraction Alg04 for DEB Grazer4	-	0.500
G4_ALGFF05	Faecal fraction Alg05 for DEB Grazer4	-	0.500
G4_ALGFF06	Faecal fraction Alg06 for DEB Grazer4	-	0.500
G4_ALGFF07	Faecal fraction Alg07 for DEB Grazer4	-	0.500
G4_ALGFF08	Faecal fraction Alg08 for DEB Grazer4	-	0.500
G4_ALGFF09	Faecal fraction Alg09 for DEB Grazer4	-	0.500
G4_ALGFF10	Faecal fraction Alg10 for DEB Grazer4	-	0.500
G4_ALGFF11	Faecal fraction Alg11 for DEB Grazer4	-	0.500
G4_ALGFF12	Faecal fraction Alg12 for DEB Grazer4	-	0.500
G4_ALGFF13	Faecal fraction Alg13 for DEB Grazer4	-	0.500
G4_ALGFF14	Faecal fraction Alg14 for DEB Grazer4	-	0.500
G4_ALGFF15	Faecal fraction Alg15 for DEB Grazer4	-	0.500
G4_ALGFF16	Faecal fraction Alg16 for DEB Grazer4	-	0.500
G4_ALGFF17	Faecal fraction Alg17 for DEB Grazer4	-	0.500
G4_ALGFF18	Faecal fraction Alg18 for DEB Grazer4	-	0.500
G4_ALGFF19	Faecal fraction Alg19 for DEB Grazer4	-	0.500
G4_ALGFF20	Faecal fraction Alg20 for DEB Grazer4	-	0.500
G4_ALGFF21	Faecal fraction Alg21 for DEB Grazer4	-	0.500
G4_ALGFF22	Faecal fraction Alg22 for DEB Grazer4	-	0.500
G4_ALGFF23	Faecal fraction Alg23 for DEB Grazer4	-	0.500
G4_ALGFF24	Faecal fraction Alg24 for DEB Grazer4	-	0.500
G4_ALGFF25	Faecal fraction Alg25 for DEB Grazer4	-	0.500
G4_ALGFF26	Faecal fraction Alg26 for DEB Grazer4	-	0.500
G4_ALGFF27	Faecal fraction Alg27 for DEB Grazer4	-	0.500
G4_ALGFF28	Faecal fraction Alg28 for DEB Grazer4	-	0.500
G4_ALGFF29	Faecal fraction Alg29 for DEB Grazer4	-	0.500
G4_ALGFF30	Faecal fraction Alg30 for DEB Grazer4	-	0.500
G4_FF01	Faecal fraction Dummy Food1 for DEB Grazer4	-	0.500
G4_FF02	Faecal fraction Dummy Food2 for DEB Grazer4	-	0.500
G4_FF03	Faecal fraction Dummy Food3 for DEB Grazer4	-	0.500
G4_FF04	Faecal fraction Dummy Food4 for DEB Grazer4	-	0.500
G4_FF05	Faecal fraction Dummy Food5 for DEB Grazer4	-	0.500
G4_FF06	Faecal fraction Dummy Food6 for DEB Grazer4	-	0.500
G4_FF07	Faecal fraction Dummy Food7 for DEB Grazer4	-	0.500
G4_FF08	Faecal fraction Dummy Food8 for DEB Grazer4	-	0.500
G5_SwV1	use 0 [ISO-morphs] or 1 [V1-morphs]	-	0.000
G5_SwBEN	Use 0 [pelagic] or 1 [benthic] for DEB Grazer5	-	2.000
Grazer5_V	conc struct biomass of DEB Grazer5	gC/m ³ ∨ gC/m ²	1.510
Grazer5_E	conc energy reserve of DEB Grazer5	gC/m ³ ∨ gC/m ²	1.000
Grazer5_R	conc gonadal mass of DEB Grazer5	gC/m ³ ∨ gC/m ²	0.000
Grazer5_N	number of individuals DEB Grazer5	#/m ³ ∨ #/m ²	1.000
G5_Lref	ref length of DEB Grazer5 only for V1morphs	cm	0.100
G5_Dummy	dummy constant for DEB Grazer5	-	0.000
G5_Vb	volume at birth of individual DEB Grazer5	cm ³	0.000
G5_Vp	volume at start of repr stage ind DEB Grazer5	cm ³	0.060
G5_shape	shape coefficient of DEB Grazer5	-	0.287
G5_Em	maximum storage density of DEB Grazer5	J/cm ³	2190.000
G5_Eg	volume-spec costs for growth of DEB Grazer5	J/cm ³	1900.000
G5_Pm	respiration rate constant of DEB Grazer5	J/d	30.700
G5_JXm	max ingestion rate of DEB Grazer5	J/(cm ² d)	196.800
G5_kappal	ingestion efficiency of DEB Grazer5	-	1.000
G5_kappaA	assimilation efficiency of DEB Grazer5	-	0.750
G5_kappa	fraction of energy spent on growth DEB Grazer5	-	0.700
G5_kappaR	fraction of energy spent on gonads DEB Grazer5	-	0.800
G5_Ta	arrhenius temperature of DEB Grazer5	K	5800.000
G5_Tah	arr temp for upper boundary DEB Grazer5	K	31376.000
G5_Tal	arr temp for lower boundary DEB Grazer5	K	45430.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
G5_Th	upper boundary of tol range of DEB Grazer5	K	296.000
G5_Tl	lower boundary of tol range of DEB Grazer5	K	275.000
G5_GSlupr	minimum GSI for spawning of DEB Grazer5	-	0.280
G5_GSllwr	minimum GSI while spawning of DEB Grazer5	-	0.100
G5_DoSpawn	indication of spawning of DEB Grazer5	-	0.000
G5_rSpawn	spawning rate of DEB Grazer5	-	0.020
G5_MinSTmp	minimum temp for spawning of DEB Grazer5	°C	15.000
G5_Xk	halfrate const for food of DEB Grazer5	gC/m ³	0.223
G5_Yk	halfrate const for TIM of DEB Grazer5	gC/m ³	100.000
G5_rMor	reference mortality rate of DEB Grazer5	/d	0.000
G5_cMor	length coefficient harvesting rate DEB Grazer5	/d	0.000
G5_rHrv	reference rate of harvesting of DEB Grazer5	/d	0.000
G5_cHrv	length coefficient harvesting rate DEB Grazer5	/d	0.000
G5_cEC	energy to carbon conversion of DEB Grazer5	gC/J	0.000
G5_cVC	volume to carbon conversion of DEB Grazer5	gC/cm ³	0.048
G5_cAFWC	AFD weight to carbon conv of DEB Grazer5	gC/gAFDW	0.400
G5_cWWC	wetweight to carbon conv of DEB Grazer5	gC/gWW	0.022
G5_TC	C:C ratio of DEB Grazer5	gC/gC	1.000
G5_TN	N:C ratio of DEB Grazer5	gN/gC	0.182
G5_TP	P:C ratio of DEB Grazer5	gP/gC	0.026
G5_TSi	Si:C ratio of DEB Grazer5	Si/gC	0.000
G5_FrDetS1	fraction of DEB Grazer5 detritus into sediment	-	1.000
G5_SFSusp	DEB Grazer5 pref suspension over deposit feedin	-	1.000
G5_PrDet	DEB Grazer5 preference for DetC or POC1	-	0.000
G5_PrDetS1	DEB Grazer5 preference for DetCS1	-	0.000
G5_FFDet	Faecal fraction of DetC for DEB Grazer5	-	0.500
G5_FFDetS1	Faecal fraction of DetCS1 for DEB Grazer5	-	0.500
G5_PrGrn	Preference of DEB Grazer5 for Greens	-	1.000
G5_PrDiat	Preference of DEB Grazer5 for Diatoms	-	1.000
G5_PrAlg01	Preference of DEB Grazer5 for algae type 01	-	1.000
G5_PrAlg02	Preference of DEB Grazer5 for algae type 02	-	1.000
G5_PrAlg03	Preference of DEB Grazer5 for algae type 03	-	1.000
G5_PrAlg04	Preference of DEB Grazer5 for algae type 04	-	1.000
G5_PrAlg05	Preference of DEB Grazer5 for algae type 05	-	1.000
G5_PrAlg06	Preference of DEB Grazer5 for algae type 06	-	1.000
G5_PrAlg07	Preference of DEB Grazer5 for algae type 07	-	1.000
G5_PrAlg08	Preference of DEB Grazer5 for algae type 08	-	1.000
G5_PrAlg09	Preference of DEB Grazer5 for algae type 09	-	1.000
G5_PrAlg10	Preference of DEB Grazer5 for algae type 10	-	1.000
G5_PrAlg11	Preference of DEB Grazer5 for algae type 11	-	1.000
G5_PrAlg12	Preference of DEB Grazer5 for algae type 12	-	1.000
G5_PrAlg13	Preference of DEB Grazer5 for algae type 13	-	1.000
G5_PrAlg14	Preference of DEB Grazer5 for algae type 14	-	1.000
G5_PrAlg15	Preference of DEB Grazer5 for algae type 15	-	1.000
G5_PrAlg16	Preference of DEB Grazer5 for algae type 16	-	1.000
G5_PrAlg17	Preference of DEB Grazer5 for algae type 17	-	1.000
G5_PrAlg18	Preference of DEB Grazer5 for algae type 18	-	1.000
G5_PrAlg19	Preference of DEB Grazer5 for algae type 19	-	1.000
G5_PrAlg20	Preference of DEB Grazer5 for algae type 20	-	1.000
G5_PrAlg21	Preference of DEB Grazer5 for algae type 21	-	1.000
G5_PrAlg22	Preference of DEB Grazer5 for algae type 22	-	1.000
G5_PrAlg23	Preference of DEB Grazer5 for algae type 23	-	1.000
G5_PrAlg24	Preference of DEB Grazer5 for algae type 24	-	1.000
G5_PrAlg25	Preference of DEB Grazer5 for algae type 25	-	1.000
G5_PrAlg26	Preference of DEB Grazer5 for algae type 26	-	1.000
G5_PrAlg27	Preference of DEB Grazer5 for algae type 27	-	1.000
G5_PrAlg28	Preference of DEB Grazer5 for algae type 28	-	1.000
G5_PrAlg29	Preference of DEB Grazer5 for algae type 29	-	1.000
G5_PrAlg30	Preference of DEB Grazer5 for algae type 30	-	1.000
G5_Pr1	Preference of DEB Grazer5 for Dummy Food1	-	0.000
G5_Pr2	Preference of DEB Grazer5 for Dummy Food2	-	0.000
G5_Pr3	Preference of DEB Grazer5 for Dummy Food3	-	0.000
G5_Pr4	Preference of DEB Grazer5 for Dummy Food4	-	0.000
G5_Pr5	Preference of DEB Grazer5 for Dummy Food5	-	0.000
G5_Pr6	Preference of DEB Grazer5 for Dummy Food6	-	0.000
G5_Pr7	Preference of DEB Grazer5 for Dummy Food7	-	0.000
G5_Pr8	Preference of DEB Grazer5 for Dummy Food8	-	0.000
G5_FFGrn	Faecal fraction Greens for DEB Grazer5	-	0.500
G5_FFDiat	Faecal fraction Diatoms for DEB Grazer5	-	0.500
G5_ALGFF01	Faecal fraction Alg01 for DEB Grazer5	-	0.500
G5_ALGFF02	Faecal fraction Alg02 for DEB Grazer5	-	0.500

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
G5_ALGFF03	Faecal fraction Alg03 for DEB Grazer5	-	0.500
G5_ALGFF04	Faecal fraction Alg04 for DEB Grazer5	-	0.500
G5_ALGFF05	Faecal fraction Alg05 for DEB Grazer5	-	0.500
G5_ALGFF06	Faecal fraction Alg06 for DEB Grazer5	-	0.500
G5_ALGFF07	Faecal fraction Alg07 for DEB Grazer5	-	0.500
G5_ALGFF08	Faecal fraction Alg08 for DEB Grazer5	-	0.500
G5_ALGFF09	Faecal fraction Alg09 for DEB Grazer5	-	0.500
G5_ALGFF10	Faecal fraction Alg10 for DEB Grazer5	-	0.500
G5_ALGFF11	Faecal fraction Alg11 for DEB Grazer5	-	0.500
G5_ALGFF12	Faecal fraction Alg12 for DEB Grazer5	-	0.500
G5_ALGFF13	Faecal fraction Alg13 for DEB Grazer5	-	0.500
G5_ALGFF14	Faecal fraction Alg14 for DEB Grazer5	-	0.500
G5_ALGFF15	Faecal fraction Alg15 for DEB Grazer5	-	0.500
G5_ALGFF16	Faecal fraction Alg16 for DEB Grazer5	-	0.500
G5_ALGFF17	Faecal fraction Alg17 for DEB Grazer5	-	0.500
G5_ALGFF18	Faecal fraction Alg18 for DEB Grazer5	-	0.500
G5_ALGFF19	Faecal fraction Alg19 for DEB Grazer5	-	0.500
G5_ALGFF20	Faecal fraction Alg20 for DEB Grazer5	-	0.500
G5_ALGFF21	Faecal fraction Alg21 for DEB Grazer5	-	0.500
G5_ALGFF22	Faecal fraction Alg22 for DEB Grazer5	-	0.500
G5_ALGFF23	Faecal fraction Alg23 for DEB Grazer5	-	0.500
G5_ALGFF24	Faecal fraction Alg24 for DEB Grazer5	-	0.500
G5_ALGFF25	Faecal fraction Alg25 for DEB Grazer5	-	0.500
G5_ALGFF26	Faecal fraction Alg26 for DEB Grazer5	-	0.500
G5_ALGFF27	Faecal fraction Alg27 for DEB Grazer5	-	0.500
G5_ALGFF28	Faecal fraction Alg28 for DEB Grazer5	-	0.500
G5_ALGFF29	Faecal fraction Alg29 for DEB Grazer5	-	0.500
G5_ALGFF30	Faecal fraction Alg30 for DEB Grazer5	-	0.500
G5_FF01	Faecal fraction Dummy Food1 for DEB Grazer5	-	0.500
G5_FF02	Faecal fraction Dummy Food2 for DEB Grazer5	-	0.500
G5_FF03	Faecal fraction Dummy Food3 for DEB Grazer5	-	0.500
G5_FF04	Faecal fraction Dummy Food4 for DEB Grazer5	-	0.500
G5_FF05	Faecal fraction Dummy Food5 for DEB Grazer5	-	0.500
G5_FF06	Faecal fraction Dummy Food6 for DEB Grazer5	-	0.500
G5_FF07	Faecal fraction Dummy Food7 for DEB Grazer5	-	0.500
G5_FF08	Faecal fraction Dummy Food8 for DEB Grazer5	-	0.500
TauShields	Shields shear stress for resusp. pick-up	N/m ²	0.200
GRAIN50	Grain size D50	m	0.000
GRAV	Gravitational acceleration	m/s ²	9.800
KinViscos	Kinematic viscosity	m ² /s	0.000
RHOSAND	bulk density sand	gDM/m ³	2600000.000
ThickS2	thickness of layer S2 van Rijn pick-up resusp.	m	0.500
MaxResPup	Maximum resuspension pick-up	g/(m ² d)	*****
FactResPup	Factor resuspension pick-up 3.3E-4	-	0.000
FrTIMS2	fraction TIM in layer S2	gDM/gDM	0.000
FrIM1SedS2	fraction sedimentation IM1 towards S2	-	0.000
FrTIMS2Max	maximum fraction TIM in layer S2 pick-up	gDM/gDM	1.000
PsedminIM1	minimum sedimentation probability	-	0.000
fSedIM1S2	sedimentation flux IM1 towards S2	g/(m ² d)	0.000
FrIM2SedS2	fraction sedimentation IM2 towards S2	-	0.000
PsedminIM2	minimum sedimentation probability	-	0.000
fSedIM2S2	sedimentation flux IM2 towards S2	g/(m ² d)	0.000
FrIM3SedS2	fraction sedimentation IM3 towards S2	-	0.000
PsedminIM3	minimum sedimentation probability	-	0.000
fSedIM3S2	sedimentation flux IM3 towards S2	g/(m ² d)	0.000
SWResusp	switch resuspension 0=z+f, 1=minz,f	-	0.000
SWResIM1	switch resuspension IM1 0=resdm, 1=resim1	-	0.000
ZResIM1	zeroth-order resuspension flux IM1	gDM/(m ² d)	0.000
VResIM1	first order resuspension velocity IM1	1/d	0.000
TaucRS1IM1	critical shear stress for resuspension IM1S1	N/m ²	0.200
TaucRS2IM1	critical shear stress for resuspension IM1S2	N/m ²	0.500
SWResIM2	switch resuspension IM2 0=resdm, 1=resim ²	-	0.000
ZResIM2	zeroth-order resuspension flux IM2	gDM/(m ² d)	0.000
VResIM2	first order resuspension velocity IM2	1/d	0.000
TaucRS1IM2	critical shear stress for resuspension IM2S1	N/m ²	0.200
TaucRS2IM2	critical shear stress for resuspension IM2S2	N/m ²	0.500
SWResIM3	switch resuspension IM3 0=resdm, 1=resim ³	-	0.000
ZResIM3	zeroth-order resuspension flux IM3	gDM/(m ² d)	0.000
VResIM3	first order resuspension velocity IM3	1/d	0.000
TaucRS1IM3	critical shear stress for resuspension IM3S1	N/m ²	0.200

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
TaucRS2IM3	critical shear stress for resuspension IM3S2	N/m ²	0.500
max_basin	maximum number of dredge basins	-	9.000
basin_no	basin number	-	0.000
*IM1	number of fractions IM1	-	1.000
*IM2	number of fractions IM2	-	1.000
*IM3	number of fractions IM3	-	1.000
*IM1S1	number of fractions IM1S1	-	1.000
*IM2S1	number of fractions IM2S1	-	1.000
*IM3S1	number of fractions IM3S1	-	1.000
*IM1S2	number of fractions IM1S2	-	1.000
*IM2S2	number of fractions IM2S2	-	1.000
*IM3S2	number of fractions IM3S2	-	1.000
start_dr01	start dredging basin 01	scu	0.000
start_dr02	start dredging basin 02	scu	0.000
start_dr03	start dredging basin 03	scu	0.000
start_dr04	start dredging basin 04	scu	0.000
start_dr05	start dredging basin 05	scu	0.000
start_dr06	start dredging basin 06	scu	0.000
start_dr07	start dredging basin 07	scu	0.000
start_dr08	start dredging basin 08	scu	0.000
start_dr09	start dredging basin 09	scu	0.000
freq_dr01	frequency dredgin basin 01	scu	0.000
freq_dr02	frequency dredgin basin 02	scu	0.000
freq_dr03	frequency dredgin basin 03	scu	0.000
freq_dr04	frequency dredgin basin 04	scu	0.000
freq_dr05	frequency dredgin basin 05	scu	0.000
freq_dr06	frequency dredgin basin 06	scu	0.000
freq_dr07	frequency dredgin basin 07	scu	0.000
freq_dr08	frequency dredgin basin 08	scu	0.000
freq_dr09	frequency dredgin basin 09	scu	0.000
crit_dr01	dredging criterium basin 01	m	0.000
crit_dr02	dredging criterium basin 02	m	0.000
crit_dr03	dredging criterium basin 03	m	0.000
crit_dr04	dredging criterium basin 04	m	0.000
crit_dr05	dredging criterium basin 05	m	0.000
crit_dr06	dredging criterium basin 06	m	0.000
crit_dr07	dredging criterium basin 07	m	0.000
crit_dr08	dredging criterium basin 08	m	0.000
crit_dr09	dredging criterium basin 09	m	0.000
sws1s2dr01	switch dredge from s1 1 or s2 2 basin 01	-	1.000
sws1s2dr02	switch dredge from s1 1 or s2 2 basin 02	-	1.000
sws1s2dr03	switch dredge from s1 1 or s2 2 basin 03	-	1.000
sws1s2dr04	switch dredge from s1 1 or s2 2 basin 04	-	1.000
sws1s2dr05	switch dredge from s1 1 or s2 2 basin 05	-	1.000
sws1s2dr06	switch dredge from s1 1 or s2 2 basin 06	-	1.000
sws1s2dr07	switch dredge from s1 1 or s2 2 basin 07	-	1.000
sws1s2dr08	switch dredge from s1 1 or s2 2 basin 08	-	1.000
sws1s2dr09	switch dredge from s1 1 or s2 2 basin 09	-	1.000
seg_dr01	dumping segment basin 01	-	0.000
seg_dr02	dumping segment basin 02	-	0.000
seg_dr03	dumping segment basin 03	-	0.000
seg_dr04	dumping segment basin 04	-	0.000
seg_dr05	dumping segment basin 05	-	0.000
seg_dr06	dumping segment basin 06	-	0.000
seg_dr07	dumping segment basin 07	-	0.000
seg_dr08	dumping segment basin 08	-	0.000
seg_dr09	dumping segment basin 09	-	0.000
speed_dr01	dumping speed basin 01	g/d	0.000
speed_dr02	dumping speed basin 02	g/d	0.000
speed_dr03	dumping speed basin 03	g/d	0.000
speed_dr04	dumping speed basin 04	g/d	0.000
speed_dr05	dumping speed basin 05	g/d	0.000
speed_dr06	dumping speed basin 06	g/d	0.000
speed_dr07	dumping speed basin 07	g/d	0.000
speed_dr08	dumping speed basin 08	g/d	0.000
speed_dr09	dumping speed basin 09	g/d	0.000
relab_dr01	relabel dumping towards fraction for basin 01	-	0.000
relab_dr02	relabel dumping towards fraction for basin 02	-	0.000
relab_dr03	relabel dumping towards fraction for basin 03	-	0.000
relab_dr04	relabel dumping towards fraction for basin 04	-	0.000
relab_dr05	relabel dumping towards fraction for basin 05	-	0.000

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Table 10.1 – continued from previous page

Process	Description	Unit	Default
relab_dr06	relabel dumping towards fraction for basin 06	-	0.000
relab_dr07	relabel dumping towards fraction for basin 07	-	0.000
relab_dr08	relabel dumping towards fraction for basin 08	-	0.000
relab_dr09	relabel dumping towards fraction for basin 09	-	0.000
dr01*IM1	dredge-dump storage IM1 basin 01	g	0.000
dr02*IM1	dredge-dump storage IM1 basin 02	g	0.000
dr03*IM1	dredge-dump storage IM1 basin 03	g	0.000
dr04*IM1	dredge-dump storage IM1 basin 04	g	0.000
dr05*IM1	dredge-dump storage IM1 basin 05	g	0.000
dr06*IM1	dredge-dump storage IM1 basin 06	g	0.000
dr07*IM1	dredge-dump storage IM1 basin 07	g	0.000
dr08*IM1	dredge-dump storage IM1 basin 08	g	0.000
dr09*IM1	dredge-dump storage IM1 basin 09	g	0.000
dr01*IM2	dredge-dump storage IM2 basin 01	g	0.000
dr02*IM2	dredge-dump storage IM2 basin 02	g	0.000
dr03*IM2	dredge-dump storage IM2 basin 03	g	0.000
dr04*IM2	dredge-dump storage IM2 basin 04	g	0.000
dr05*IM2	dredge-dump storage IM2 basin 05	g	0.000
dr06*IM2	dredge-dump storage IM2 basin 06	g	0.000
dr07*IM2	dredge-dump storage IM2 basin 07	g	0.000
dr08*IM2	dredge-dump storage IM2 basin 08	g	0.000
dr09*IM2	dredge-dump storage IM2 basin 09	g	0.000
dr01*IM3	dredge-dump storage IM3 basin 01	g	0.000
dr02*IM3	dredge-dump storage IM3 basin 02	g	0.000
dr03*IM3	dredge-dump storage IM3 basin 03	g	0.000
dr04*IM3	dredge-dump storage IM3 basin 04	g	0.000
dr05*IM3	dredge-dump storage IM3 basin 05	g	0.000
dr06*IM3	dredge-dump storage IM3 basin 06	g	0.000
dr07*IM3	dredge-dump storage IM3 basin 07	g	0.000
dr08*IM3	dredge-dump storage IM3 basin 08	g	0.000
dr09*IM3	dredge-dump storage IM3 basin 09	g	0.000
SwFloceq	0=IM1 macro-IM2micro, 1=IM2IM1, 2=IM2IM3, 3=IM3IM2	-	0.000
RcFloc	flocculation rate	1/d	2.310
RcBreakup	floc break-up rate	1/d	2.310
SWBloomSA	switch for BLOOM stand alone 0=no, 1=yes	-	0.000
TotNBLSA	Total nitrogen for BLOOM stand alone	g/m ³	0.000
TotPBLSA	Total phosphorous for BLOOM stand alone	g/m ³	0.000
TotSiBLSA	Total silicium for BLOOM stand alone	g/m ³	0.000
fRefl	fraction of radiation reflected at water surface	-	0.000

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11 Exchange related process input with a default value

Table 11.1: Exchange related process input with a default value

Process	Description	Unit	Default
XArea	exchange area	m ²	0.000
Flow	flow rate	m ³ /s	0.000
Disp3	uniform dispersion in third direction	m ² /s	0.000
VxSedIM1	sedimentation velocity IM1	m/s	0.000
VxSedIM2	sedimentation velocity IM2	m/s	0.000
VxSedIM3	sedimentation velocity IM3	m/s	0.000
VxSedDiat	sedimentation velocity Diatoms	m/s	0.000
VxSedGreen	sedimentation velocity Greens	m/s	0.000
VxSedAlg02	sedimentation velocity algae type 02	m/s	0.000
VxSedAlg03	sedimentation velocity algae type 03	m/s	0.000
VxSedAlg04	sedimentation velocity algae type 04	m/s	0.000
VxSedAlg05	sedimentation velocity algae type 05	m/s	0.000
VxSedAlg06	sedimentation velocity algae type 06	m/s	0.000
VxSedAlg07	sedimentation velocity algae type 07	m/s	0.000
VxSedAlg08	sedimentation velocity algae type 08	m/s	0.000
VxSedAlg09	sedimentation velocity algae type 09	m/s	0.000
VxSedAlg10	sedimentation velocity algae type 10	m/s	0.000
VxSedAlg11	sedimentation velocity algae type 11	m/s	0.000
VxSedAlg12	sedimentation velocity algae type 12	m/s	0.000
VxSedAlg13	sedimentation velocity algae type 13	m/s	0.000
VxSedAlg14	sedimentation velocity algae type 14	m/s	0.000
VxSedAlg15	sedimentation velocity algae type 15	m/s	0.000
VxSedAlg16	sedimentation velocity algae type 16	m/s	0.000
VxSedAlg17	sedimentation velocity algae type 17	m/s	0.000
VxSedAlg18	sedimentation velocity algae type 18	m/s	0.000
VxSedAlg19	sedimentation velocity algae type 19	m/s	0.000
VxSedAlg20	sedimentation velocity algae type 20	m/s	0.000
VxSedAlg21	sedimentation velocity algae type 21	m/s	0.000
VxSedAlg22	sedimentation velocity algae type 22	m/s	0.000
VxSedAlg23	sedimentation velocity algae type 23	m/s	0.000
VxSedAlg24	sedimentation velocity algae type 24	m/s	0.000
VxSedAlg25	sedimentation velocity algae type 25	m/s	0.000
VxSedAlg26	sedimentation velocity algae type 26	m/s	0.000
VxSedAlg27	sedimentation velocity algae type 27	m/s	0.000
VxSedAlg28	sedimentation velocity algae type 28	m/s	0.000
VxSedAlg29	sedimentation velocity algae type 29	m/s	0.000
VxSedAlg30	sedimentation velocity algae type 30	m/s	0.000
VxSedPhyt	sedimentation velocity phytoplankton	m/s	0.000
VxSedPOCna	sedimentation velocity POC no algae	m/s	0.000
VxSedPOC1	sedimentation velocity POC1	m/s	0.000
VxSedPOC2	sedimentation velocity POC2	m/s	0.000
VxSedPOC3	sedimentation velocity POC3	m/s	0.000
VxSedPOC4	sedimentation velocity POC4	m/s	0.000
VxRes0	resuspension velocity	m/s	0.000
VxBur0	burial velocity	m/s	0.000
VxSep0	seepage velocity	m/s	0.000
VxTur0	bio-turbation velocities	m/s	0.000
VxDif0	bio-irrigation velocities	m/s	0.000
VxSedDum [1ex]	sedimentation velocity dummy	m/s	0.000

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12 Segment related process input without a default value

Table 12.1: Segment related process input without a default value

Process	Description	Unit
cTR1	Conservative Tracer Source 1	g/m ³
dTR1	Decayable Tracer Source 1	g/m ³
cTR2	Conservative Tracer Source 2	g/m ³
dTR2	Decayable Tracer Source 2	g/m ³
cTR3	Conservative Tracer Source 3	g/m ³
dTR3	Decayable Tracer Source 3	g/m ³
cTR4	Conservative Tracer Source 4	g/m ³
dTR4	Decayable Tracer Source 4	g/m ³
cTR5	Conservative Tracer Source 5	g/m ³
dTR5	Decayable Tracer Source 5	g/m ³
FrCon	Fraction fresh water from constant discharge	-
FrFlow	Fraction fresh water from variable discharge	-
SalBnd	Salinity from boundary inflow	ppt
CH4	CH4 methane	g/m ³
Alka	alkalinity	gHCO ₃ /m ³
SUD	total dissolved sulphide SUD	gS/m ³
SUP	particulate sulphide SUP	gS/m ³
POC5	POC5 vegetation fraction	gC/m ²
PON5	PON5 vegetation fraction	gN/m ²
POP5	POP5 vegetation fraction	gP/m ²
POS5	POS5 vegetation fraction	gS/m ²
BLOOMALG01	concentration of algae type 1	gC/m ³
MPB1peli	microphytobenthos epipellic	gC/m ³
MPB2psam	microphytobenthos non-Diatoms	gC/m ³
EColi	E. Coli bacteria	MPN/m ³
EnCoc	Enterococci bacteria	MPN/m ³
FColi	Faecal coli bacteria	MPN/m ³
TColi	Total coli bacteria	MPN/m ³
As	Arsenic As	g/m ³
As-Dis	dissolved concentration As	g/m ³
As-Par	particulate concentration As	g/m ³
AsS1	As in layer S1	g/m ²
AsS1-Dis	dissolved mass As in layer S1	g/m ²
AsS1-Par	particulate mass As in layer S1	g/m ²
AsS2	As in layer S2	g/m ²
AsS2-Dis	dissolved mass As in layer S2	g/m ²
AsS2-Par	particulate mass As in layer S2	g/m ²
Cd	Cadmium Cd	g/m ³
Cd-Dis	dissolved concentration Cd	g/m ³
Cd-Par	particulate concentration Cd	g/m ³
CdS1	Cd in layer S1	g/m ²
CdS1-Dis	dissolved mass Cd in layer S1	g/m ²
CdS1-Par	particulate mass Cd in layer S1	g/m ²
CdS2	Cd in layer S2	g/m ²
CdS2-Dis	dissolved mass Cd in layer S2	g/m ²
CdS2-Par	particulate mass Cd in layer S2	g/m ²
Cr	Chromium Cr	g/m ³
Cr-Dis	dissolved concentration Cr	g/m ³
Cr-Par	particulate concentration Cr	g/m ³
CrS1	Cr in layer S1	g/m ²
CrS1-Dis	dissolved mass Cr in layer S1	g/m ²
CrS1-Par	particulate mass Cr in layer S1	g/m ²
CrS2	Cr in layer S2	g/m ²
CrS2-Dis	dissolved mass Cr in layer S2	g/m ²
CrS2-Par	particulate mass Cr in layer S2	g/m ²
Cu	Copper Cu	g/m ³
Cu-Dis	dissolved concentration Cu	g/m ³
Cu-Par	particulate concentration Cu	g/m ³
CuS1	Cu in layer S1	g/m ²
CuS1-Dis	dissolved mass Cu in layer S1	g/m ²
CuS1-Par	particulate mass Cu in layer S1	g/m ²
CuS2	Cu in layer S2	g/m ²
CuS2-Dis	dissolved mass Cu in layer S2	g/m ²
CuS2-Par	particulate mass Cu in layer S2	g/m ²
Hg	Mercury Hg	g/m ³

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Table 12.1 – continued from previous page

Process	Description	Unit
Hg-Dis	dissolved concentration Hg	g/m ³
Hg-Par	particulate concentration Hg	g/m ³
HgS1	Hg in layer S1	g/m ²
HgS1-Dis	dissolved mass Hg in layer S1	g/m ²
HgS1-Par	particulate mass Hg in layer S1	g/m ²
HgS2	Hg in layer S2	g/m ²
HgS2-Dis	dissolved mass Hg in layer S2	g/m ²
HgS2-Par	particulate mass Hg in layer S2	g/m ²
Ni	Nickel Ni	g/m ³
Ni-Dis	dissolved concentration Ni	g/m ³
Ni-Par	particulate concentration Ni	g/m ³
NiS1	Ni in layer S1	g/m ²
NiS1-Dis	dissolved mass Ni in layer S1	g/m ²
NiS1-Par	particulate mass Ni in layer S1	g/m ²
NiS2	Ni in layer S2	g/m ²
NiS2-Dis	dissolved mass Ni in layer S2	g/m ²
NiS2-Par	particulate mass Ni in layer S2	g/m ²
Pb	Lead Pb	g/m ³
Pb-Dis	dissolved concentration Pb	g/m ³
Pb-Par	particulate concentration Pb	g/m ³
PbS1	Pb in layer S1	g/m ²
PbS1-Dis	dissolved mass Pb in layer S1	g/m ²
PbS1-Par	particulate mass Pb in layer S1	g/m ²
PbS2	Pb in layer S2	g/m ²
PbS2-Dis	dissolved mass Pb in layer S2	g/m ²
PbS2-Par	particulate mass Pb in layer S2	g/m ²
Va	Vanadium Va	g/m ³
Va-Dis	dissolved concentration Va	g/m ³
Va-Par	particulate concentration Va	g/m ³
VaS1	Va in layer S1	g/m ²
VaS1-Dis	dissolved mass Va in layer S1	g/m ²
VaS1-Par	particulate mass Va in layer S1	g/m ²
VaS2	Va in layer S2	g/m ²
VaS2-Dis	dissolved mass Va in layer S2	g/m ²
VaS2-Par	particulate mass Va in layer S2	g/m ²
Zn	Zinc Zn	g/m ³
Zn-Dis	dissolved concentration Zn	g/m ³
Zn-Par	particulate concentration Zn	g/m ³
ZnS1	Zn in layer S1	g/m ²
ZnS1-Dis	dissolved mass Zn in layer S1	g/m ²
ZnS1-Par	particulate mass Zn in layer S1	g/m ²
ZnS2	Zn in layer S2	g/m ²
ZnS2-Dis	dissolved mass Zn in layer S2	g/m ²
ZnS2-Par	particulate mass Zn in layer S2	g/m ²
153	Polychlorinated biphenyl PCB-153	g/m ³
153-dis	dissolved concentration 153	g/m ³
153-par	particulate concentration 153	g/m ³
153S1	PCB-153 in layer S1	g/m ²
153S1-Dis	dissolved mass 153 in layer S1	g/m ²
153S1-Par	particulate mass 153 in layer S1	g/m ²
153S2	PCB-153 in layer S2	g/m ²
153S2-Dis	dissolved mass 153 in layer S2	g/m ²
153S2-Par	particulate mass 153 in layer S2	g/m ²
ATR	Atrazine Atr	g/m ³
Atr-dis	dissolved concentration Atrazine	g/m ³
Atr-par	particulate concentration Atrazine	g/m ³
AtrS1	Atrazine in layer S1	g/m ²
AtrS1-Dis	dissolved mass Atrazine in layer S1	g/m ²
AtrS1-Par	particulate mass Atrazine in layer S1	g/m ²
AtrS2	Atrazine in layer S2	g/m ²
AtrS2-Dis	dissolved mass Atrazine in layer S2	g/m ²
AtrS2-Par	particulate mass Atrazine in layer S2	g/m ²
BaP	Benzo(a)pyrene BaP	g/m ³
BaP-dis	dissolved concentration BaP	g/m ³
BaP-par	particulate concentration BaP	g/m ³
BaPS1	BaP in layer S1	g/m ²
BaPS1-Dis	dissolved mass BaP in layer S1	g/m ²
BaPS1-Par	particulate mass BaP in layer S1	g/m ²

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Table 12.1 – continued from previous page

Process	Description	Unit
BaPS2	BaP in layer S2	g/m ²
BaPS2-Dis	dissolved mass BaP in layer S2	g/m ²
BaPS2-Par	particulate mass BaP in layer S2	g/m ²
Diu	Diuron Diu	g/m ³
Diu-dis	dissolved concentration Diu	g/m ³
Diu-par	particulate concentration Diu	g/m ³
DiuS1	Diu in layer S1	g/m ²
DiuS1-Dis	dissolved mass Diu in layer S1	g/m ²
DiuS1-Par	particulate mass Diu in layer S1	g/m ²
DiuS2	Diu in layer S2	g/m ²
DiuS2-Dis	dissolved mass Diu in layer S2	g/m ²
DiuS2-Par	particulate mass Diu in layer S2	g/m ²
Flu	Fluoranthene Flu	g/m ³
Flu-dis	dissolved concentration Flu	g/m ³
Flu-par	particulate concentration Flu	g/m ³
FluS1	Flu in layer S1	g/m ²
FluS1-Dis	dissolved mass Flu in layer S1	g/m ²
FluS1-Par	particulate mass Flu in layer S1	g/m ²
FluS2	Flu in layer S2	g/m ²
FluS2-Dis	dissolved mass Flu in layer S2	g/m ²
FluS2-Par	particulate mass Flu in layer S2	g/m ²
HCB	Hexachlorobenzene HCB	g/m ³
HCB-dis	dissolved concentration HCB	g/m ³
HCB-par	particulate concentration HCB	g/m ³
HCBS1	HCB in layer S1	g/m ²
HCBS1-Dis	dissolved mass HCB in layer S1	g/m ²
HCBS1-Par	particulate mass HCB in layer S1	g/m ²
HCBS2	HCB in layer S2	g/m ²
HCBS2-Dis	dissolved mass HCB in layer S2	g/m ²
HCBS2-Par	particulate mass HCB in layer S2	g/m ²
HCH	Lindane HCH	g/m ³
HCH-dis	dissolved concentration HCH	g/m ³
HCH-par	particulate concentration HCH	g/m ³
HCHS1	HCH in layer S1	g/m ²
HCHS1-Dis	dissolved mass HCH in layer S1	g/m ²
HCHS1-Par	particulate mass HCH in layer S1	g/m ²
HCHS2	HCH in layer S2	g/m ²
HCHS2-Dis	dissolved mass HCH in layer S2	g/m ²
HCHS2-Par	particulate mass HCH in layer S2	g/m ²
Mef	Mefinphos Mef	g/m ³
Mef-dis	dissolved concentration Mef	g/m ³
Mef-par	particulate concentration Mef	g/m ³
MefS1	Mef in layer S1	g/m ²
MefS1-Dis	dissolved mass Mef in layer S1	g/m ²
MefS1-Par	particulate mass Mef in layer S1	g/m ²
MefS2	Mef in layer S2	g/m ²
MefS2-Dis	dissolved mass Mef in layer S2	g/m ²
MefS2-Par	particulate mass Mef in layer S2	g/m ²
OMP	Organic Micro Pollutant OMP	g/m ³
OMP-dis	dissolved concentration OMP	g/m ³
OMP-par	particulate concentration OMP	g/m ³
OMPS1	OMP in sediment 1	g/m ²
OMPS1-Dis	dissolved mass OMP in S1	g/m ²
OMPS1-Par	particulate mass OMP in S1	g/m ²
OMPS2	OMP in sediment 2	g/m ²
OMPS2-Dis	dissolved mass OMP in S2	g/m ²
OMPS2-Par	particulate mass OMP in S2	g/m ²
VB01	vegetation biomass cohort 1	gC/m ²
VB02	vegetation biomass cohort 2	gC/m ²
VB03	vegetation biomass cohort 3	gC/m ²
VB04	vegetation biomass cohort 4	gC/m ²
VB05	vegetation biomass cohort 5	gC/m ²
VB06	vegetation biomass cohort 6	gC/m ²
VB07	vegetation biomass cohort 7	gC/m ²
VB08	vegetation biomass cohort 8	gC/m ²
VB09	vegetation biomass cohort 9	gC/m ²
Volume	volume of computational cell	m ³
Rad_1	Global radiation at station 1	W/m ²

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Table 12.1 – continued from previous page

Process	Description	Unit
VWind_1	Wind velocity at staion 1	m/s
WinDir_1	wind direction pair 1	degrees
RelHum_1	Relative air humidity at station 1	%
AirTemp_1	Air temperature at station 1	°C
AirPres_1	Air pressure at station 1	mbar
SQ_1	Sunshine duration per day	h
Rad_2	Global radiation at station 2	W/m ²
VWind_2	Wind velocity at staion 2	m/s
WinDir_2	wind direction pair 2	degrees
RelHum_2	Relative air humidity at station 2	%
AirTemp_2	Air temperature at station 2	°C
AirPres_2	Air pressure at station 2	mbar
SQ_2	Sunshine duration per day	h
Rad_3	Global radiation at station 3	W/m ²
VWind_3	Wind velocity at staion 3	m/s
WinDir_3	wind direction pair 3	degrees
RelHum_3	Relative air humidity at station 3	%
AirTemp_3	Air temperature at station 3	°C
AirPres_3	Air pressure at station 3	mbar
SQ_3	Sunshine duration per day	h
Rad_4	Global radiation at station 4	W/m ²
VWind_4	Wind velocity at staion 4	m/s
WinDir_4	wind direction pair 4	degrees
RelHum_4	Relative air humidity at station 4	%
AirTemp_4	Air temperature at station 4	°C
AirPres_4	Air pressure at station 4	mbar
SQ_4	Sunshine duration per day	h
Rad_5	Global radiation at station 5	W/m ²
VWind_5	Wind velocity at staion 5	m/s
WinDir_5	wind direction pair 5	degrees
RelHum_5	Relative air humidity at station 5	%
AirTemp_5	Air temperature at station 5	°C
AirPres_5	Air pressure at station 5	mbar
SQ_5	Sunshine duration per day	h
XMeteo1	X-coordinate metric of station 1	m
YMeteo1	Y-coordinate metric of station 1	m
XMeteo2	X-coordinate metric of station 2	m
YMeteo2	Y-coordinate metric of station 2	m
XMeteo3	X-coordinate metric of station 3	m
YMeteo3	Y-coordinate metric of station 3	m
XMeteo4	X-coordinate metric of station 4	m
YMeteo4	Y-coordinate metric of station 4	m
XMeteo5	X-coordinate metric of station 5	m
YMeteo5	Y-coordinate metric of station 5	m
XSeg	X-coordinate of DELWAQ segment metric	m
YSeg	Y-coordinate of DELWAQ segment metric	m
ITIME	DELWAQ time	scu
DELT	timestep for processes	d
Orient_1	orientation of main positive flow direction	degrees
Orient_2	orientation of secondary positive flow direct	degrees
VertDisper	vertical dispersion	m ² /s
Width	total width	m
WindDir	actual wind direction	degrees
WFetch_1	wind fetch pair 1	m
WFetch_2	wind fetch pair 2	m
WFetch_3	wind fetch pair 3	m
WFetch_4	wind fetch pair 4	m
WFetch_5	wind fetch pair 5	m
WFetch_6	wind fetch pair 6	m
WinDir_6	wind direction pair 6	degrees
WFetch_7	wind fetch pair 7	m
WinDir_7	wind direction pair 7	degrees
WFetch_8	wind fetch pair 8	m
WinDir_8	wind direction pair 8	degrees
WDepth_1	wind depth pair 1	m
WDepth_2	wind depth pair 2	m
WDepth_3	wind depth pair 3	m
WDepth_4	wind depth pair 4	m
WDepth_5	wind depth pair 5	m
WDepth_6	wind depth pair 6	m
WDepth_7	wind depth pair 7	m

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Table 12.1 – continued from previous page

Process	Description	Unit
WDepth_8	wind depth pair 8	m
IDT	DELWAQ timestep	scu
PeriodVTRA	period for calculating vertical distribution	h
XNCRAIg01	N:C ratio for heterotrophic algae type 01	gN/gC
XNCRAIg02	N:C ratio for heterotrophic algae type 02	gN/gC
XNCRAIg03	N:C ratio for heterotrophic algae type 03	gN/gC
XNCRAIg04	N:C ratio for heterotrophic algae type 04	gN/gC
XNCRAIg05	N:C ratio for heterotrophic algae type 05	gN/gC
XNCRAIg06	N:C ratio for heterotrophic algae type 06	gN/gC
XNCRAIg07	N:C ratio for heterotrophic algae type 07	gN/gC
XNCRAIg08	N:C ratio for heterotrophic algae type 08	gN/gC
XNCRAIg09	N:C ratio for heterotrophic algae type 09	gN/gC
XNCRAIg10	N:C ratio for heterotrophic algae type 10	gN/gC
XNCRAIg11	N:C ratio for heterotrophic algae type 11	gN/gC
XNCRAIg12	N:C ratio for heterotrophic algae type 12	gN/gC
XNCRAIg13	N:C ratio for heterotrophic algae type 13	gN/gC
XNCRAIg14	N:C ratio for heterotrophic algae type 14	gN/gC
XNCRAIg15	N:C ratio for heterotrophic algae type 15	gN/gC
XNCRAIg16	N:C ratio for heterotrophic algae type 16	gN/gC
XNCRAIg17	N:C ratio for heterotrophic algae type 17	gN/gC
XNCRAIg18	N:C ratio for heterotrophic algae type 18	gN/gC
XNCRAIg19	N:C ratio for heterotrophic algae type 19	gN/gC
XNCRAIg20	N:C ratio for heterotrophic algae type 20	gN/gC
XNCRAIg21	N:C ratio for heterotrophic algae type 21	gN/gC
XNCRAIg22	N:C ratio for heterotrophic algae type 22	gN/gC
XNCRAIg23	N:C ratio for heterotrophic algae type 23	gN/gC
XNCRAIg24	N:C ratio for heterotrophic algae type 24	gN/gC
XNCRAIg25	N:C ratio for heterotrophic algae type 25	gN/gC
XNCRAIg26	N:C ratio for heterotrophic algae type 26	gN/gC
XNCRAIg27	N:C ratio for heterotrophic algae type 27	gN/gC
XNCRAIg28	N:C ratio for heterotrophic algae type 28	gN/gC
XNCRAIg29	N:C ratio for heterotrophic algae type 29	gN/gC
XNCRAIg30	N:C ratio for heterotrophic algae type 30	gN/gC
XPCRAIg01	P:C ratio for heterotrophic algae type 01	gP/gC
XPCRAIg02	P:C ratio for heterotrophic algae type 02	gP/gC
XPCRAIg03	P:C ratio for heterotrophic algae type 03	gP/gC
XPCRAIg04	P:C ratio for heterotrophic algae type 04	gP/gC
XPCRAIg05	P:C ratio for heterotrophic algae type 05	gP/gC
XPCRAIg06	P:C ratio for heterotrophic algae type 06	gP/gC
XPCRAIg07	P:C ratio for heterotrophic algae type 07	gP/gC
XPCRAIg08	P:C ratio for heterotrophic algae type 08	gP/gC
XPCRAIg09	P:C ratio for heterotrophic algae type 09	gP/gC
XPCRAIg10	P:C ratio for heterotrophic algae type 10	gP/gC
XPCRAIg11	P:C ratio for heterotrophic algae type 11	gP/gC
XPCRAIg12	P:C ratio for heterotrophic algae type 12	gP/gC
XPCRAIg13	P:C ratio for heterotrophic algae type 13	gP/gC
XPCRAIg14	P:C ratio for heterotrophic algae type 14	gP/gC
XPCRAIg15	P:C ratio for heterotrophic algae type 15	gP/gC
XPCRAIg16	P:C ratio for heterotrophic algae type 16	gP/gC
XPCRAIg17	P:C ratio for heterotrophic algae type 17	gP/gC
XPCRAIg18	P:C ratio for heterotrophic algae type 18	gP/gC
XPCRAIg19	P:C ratio for heterotrophic algae type 19	gP/gC
XPCRAIg20	P:C ratio for heterotrophic algae type 20	gP/gC
XPCRAIg21	P:C ratio for heterotrophic algae type 21	gP/gC
XPCRAIg22	P:C ratio for heterotrophic algae type 22	gP/gC
XPCRAIg23	P:C ratio for heterotrophic algae type 23	gP/gC
XPCRAIg24	P:C ratio for heterotrophic algae type 24	gP/gC
XPCRAIg25	P:C ratio for heterotrophic algae type 25	gP/gC
XPCRAIg26	P:C ratio for heterotrophic algae type 26	gP/gC
XPCRAIg27	P:C ratio for heterotrophic algae type 27	gP/gC
XPCRAIg28	P:C ratio for heterotrophic algae type 28	gP/gC
XPCRAIg29	P:C ratio for heterotrophic algae type 29	gP/gC
XPCRAIg30	P:C ratio for heterotrophic algae type 30	gP/gC
FNCRAIg01	N:C ratio for nitrogen fixing algae type 01	gN/gC
FNCRAIg02	N:C ratio for nitrogen fixing algae type 02	gN/gC
FNCRAIg03	N:C ratio for nitrogen fixing algae type 03	gN/gC
FNCRAIg04	N:C ratio for nitrogen fixing algae type 04	gN/gC
FNCRAIg05	N:C ratio for nitrogen fixing algae type 05	gN/gC
FNCRAIg06	N:C ratio for nitrogen fixing algae type 06	gN/gC
FNCRAIg07	N:C ratio for nitrogen fixing algae type 07	gN/gC
FNCRAIg08	N:C ratio for nitrogen fixing algae type 08	gN/gC

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Table 12.1 – continued from previous page

Process	Description	Unit
FNCRAIg09	N:C ratio for nitrogen fixing algae type 09	gN/gC
FNCRAIg10	N:C ratio for nitrogen fixing algae type 10	gN/gC
FNCRAIg11	N:C ratio for nitrogen fixing algae type 11	gN/gC
FNCRAIg12	N:C ratio for nitrogen fixing algae type 12	gN/gC
FNCRAIg13	N:C ratio for nitrogen fixing algae type 13	gN/gC
FNCRAIg14	N:C ratio for nitrogen fixing algae type 14	gN/gC
FNCRAIg15	N:C ratio for nitrogen fixing algae type 15	gN/gC
FNCRAIg16	N:C ratio for nitrogen fixing algae type 16	gN/gC
FNCRAIg17	N:C ratio for nitrogen fixing algae type 17	gN/gC
FNCRAIg18	N:C ratio for nitrogen fixing algae type 18	gN/gC
FNCRAIg19	N:C ratio for nitrogen fixing algae type 19	gN/gC
FNCRAIg20	N:C ratio for nitrogen fixing algae type 20	gN/gC
FNCRAIg21	N:C ratio for nitrogen fixing algae type 21	gN/gC
FNCRAIg22	N:C ratio for nitrogen fixing algae type 22	gN/gC
FNCRAIg23	N:C ratio for nitrogen fixing algae type 23	gN/gC
FNCRAIg24	N:C ratio for nitrogen fixing algae type 24	gN/gC
FNCRAIg25	N:C ratio for nitrogen fixing algae type 25	gN/gC
FNCRAIg26	N:C ratio for nitrogen fixing algae type 26	gN/gC
FNCRAIg27	N:C ratio for nitrogen fixing algae type 27	gN/gC
FNCRAIg28	N:C ratio for nitrogen fixing algae type 28	gN/gC
FNCRAIg29	N:C ratio for nitrogen fixing algae type 29	gN/gC
FNCRAIg30	N:C ratio for nitrogen fixing algae type 30	gN/gC
FCSEDIM1	organic carbon in sediment fraction 1	gOC/gDM
FCSEDIM1S1	organic carbon in sediment fraction 1 in layer S1	gOC/gDM
FCSEDIM1S2	organic carbon in sediment fraction 1 in layer S2	gOC/gDM
dMinDetNS2	mineralisation flux DetNS2	gN/m ³ /d
dMinDetPS2	mineralisation flux DetPS2	gP/m ³ /d
dMinOONS1	mineralisation flux OONS1	gN/m ³ /d
dMinOONS2	mineralisation flux OONS2	gN/m ³ /d
dMinOOPS1	mineralisation flux OOPS1	gP/m ³ /d
dMinOOPS2	mineralisation flux OOPS2	gP/m ³ /d
KMSigreen	half-saturation value Si Greens	gSi/m ³
SalM1Green	lower salinity limit for mortality Greens	g/kg
SalM2Green	upper salinity limit for mortality Greens	g/kg
SalM1Diat	lower salinity limit for mortality Diatoms	g/kg
SalM2Diat	upper salinity limit for mortality Diatoms	g/kg
PPMaxDiaS1	maximum production rate Diatoms in layer S1	1/d
KSRadFr	half saturation light inhib for frac SurfRad	-
V0SedIM1	sedimentation velocity IM1	m/d
V0SedIM2	sedimentation velocity IM2	m/d
V0SedIM3	sedimentation velocity IM3	m/d
V0SedDiat	sedimentation velocity Diatoms	m/d
V0SedGreen	sedimentation velocity Gree	m/d
V0SedAlg	sedimentation velocity algal type	m/d
V0SedAlg01	sedimentation velocity algae type 01	m/d
V0SedAlg02	sedimentation velocity algae type 02	m/d
V0SedAlg03	sedimentation velocity algae type 03	m/d
V0SedAlg04	sedimentation velocity algae type 04	m/d
V0SedAlg05	sedimentation velocity algae type 05	m/d
V0SedAlg06	sedimentation velocity algae type 06	m/d
V0SedAlg07	sedimentation velocity algae type 07	m/d
V0SedAlg08	sedimentation velocity algae type 08	m/d
V0SedAlg09	sedimentation velocity algae type 09	m/d
V0SedAlg10	sedimentation velocity algae type 10	m/d
V0SedAlg11	sedimentation velocity algae type 11	m/d
V0SedAlg12	sedimentation velocity algae type 12	m/d
V0SedAlg13	sedimentation velocity algae type 13	m/d
V0SedAlg14	sedimentation velocity algae type 14	m/d
V0SedAlg15	sedimentation velocity algae type 15	m/d
V0SedAlg16	sedimentation velocity algae type 16	m/d
V0SedAlg17	sedimentation velocity algae type 17	m/d
V0SedAlg18	sedimentation velocity algae type 18	m/d
V0SedAlg19	sedimentation velocity algae type 19	m/d
V0SedAlg20	sedimentation velocity algae type 20	m/d
V0SedAlg21	sedimentation velocity algae type 21	m/d
V0SedAlg22	sedimentation velocity algae type 22	m/d
V0SedAlg23	sedimentation velocity algae type 23	m/d
V0SedAlg24	sedimentation velocity algae type 24	m/d
V0SedAlg25	sedimentation velocity algae type 25	m/d
V0SedAlg26	sedimentation velocity algae type 26	m/d
V0SedAlg27	sedimentation velocity algae type 27	m/d

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Table 12.1 – continued from previous page

Process	Description	Unit
V0SedAlg28	sedimentation velocity algae type 28	m/d
V0SedAlg29	sedimentation velocity algae type 29	m/d
V0SedAlg30	sedimentation velocity algae type 30	m/d
TurCoef	bioturbation at lower interface	(m ² d)
DifCoef	diffusion constant at upper interface	(m ² d)
CECIM1	Cation Exchange Capacity IM1	eq/gDM
Zooplank	input concentration of zooplankton-grazer1	gC/m ³
fEvapConti	nett evaporation and rain continuity	m/d
fAtmDepIM1	atmospheric deposition flux IM1	g/(m ² d)
fAtmDepIM2	atmospheric deposition flux IM2	g/(m ² d)
fAtmDepIM3	atmospheric deposition flux IM3	g/(m ² d)
fDfwastIM1	diffusive waste flux IM1	g/(m ² d)
fDfwastIM2	diffusive waste flux IM2	g/(m ² d)
fDfwastIM3	diffusive waste flux IM3	g/(m ² d)
fAtmDepNH4	atmospheric deposition flux NH4	gN/(m ² d)
fAtmDepNO3	atmospheric deposition flux NO3	gN/(m ² d)
fAtmDepPO4	atmospheric deposition flux PO4	gP/(m ² d)
fAtmDepSO4	atmospheric deposition flux SO4	gS/(m ² d)
fAtmDep153	atmospheric deposition flux 153	g153/(m ² d)
fAtmDepHCB	atmospheric deposition flux HCB	gHCB/(m ² d)
fAtmDepHCH	atmospheric deposition flux HCH	gHCH/(m ² d)
fAtmDepFlu	atmospheric deposition flux Flu	gFlu/(m ² d)
fAtmDepBap	atmospheric deposition flux BaP	gBaP/(m ² d)
fAtmDepAtr	atmospheric deposition flux Atrazine	gAtr/(m ² d)
fAtmDepMef	atmospheric deposition flux Mef	gMef/(m ² d)
fAtmDepDiu	atmospheric deposition flux Diu	gDiu/(m ² d)
fAtmDepCd	atmospheric deposition flux Cd	gCd/(m ² d)
fAtmDepCu	atmospheric deposition flux Cu	gCu/(m ² d)
fAtmDepZn	atmospheric deposition flux Zn	gZn/(m ² d)
fAtmDepHg	atmospheric deposition flux Hg	gHg/(m ² d)
fAtmDepNi	atmospheric deposition flux Ni	gNi/(m ² d)
fAtmDepPb	atmospheric deposition flux Pb	gPb/(m ² d)
fAtmDepCr	atmospheric deposition flux Cr	gCr/(m ² d)
fAtmDepAs	atmospheric deposition flux As	gAs/(m ² d)
fAtmDepVa	atmospheric deposition flux Va	gVa/(m ² d)
fDfwastNO3	diffusive waste flux NO3	gN/(m ² d)
fDfwastNH4	diffusive waste flux NH4	gN/(m ² d)
fDfwastPO4	diffusive waste flux PO4	gP/(m ² d)
fDfwastSi	diffusive waste flux Si	gSi/(m ² d)
fDfwastSO4	diffusive waste flux SO4	gS/(m ² d)
fDfwast153	diffusive waste flux 153	g153/(m ² d)
fDfwastHCB	diffusive waste flux HCB	gHCB/(m ² d)
fDfwastHCH	diffusive waste flux HCH	gHCH/(m ² d)
fDfwastFlu	diffusive waste flux Flu	gFlu/(m ² d)
fDfwastBap	diffusive waste flux BaP	gBaP/(m ² d)
fDfwastAtr	diffusive waste flux Atrazine	gAtr/(m ² d)
fDfwastMef	diffusive waste flux Mef	gMef/(m ² d)
fDfwastDiu	diffusive waste flux Diu	gDiu/(m ² d)
fDfwastCd	diffusive waste flux Cd	gCd/(m ² d)
fDfwastCu	diffusive waste flux Cu	gCu/(m ² d)
fDfwastZn	diffusive waste flux Zn	gZn/(m ² d)
fDfwastHg	diffusive waste flux Hg	gHg/(m ² d)
fDfwastNi	diffusive waste flux Ni	gNi/(m ² d)
fDfwastPb	diffusive waste flux Pb	gPb/(m ² d)
fDfwastCr	diffusive waste flux Cr	gCr/(m ² d)
fDfwastAs	diffusive waste flux As	gAs/(m ² d)
fDfwastVa	diffusive waste flux Va	gVa/(m ² d)
fAtmDepOMP	atmospheric deposition flux OMP	gOMP/(m ² d)
fDfwastOMP	zeroth-order flux OMP	gOMP/(m ² d)
TZooplank	threshold concentration of zooplankton-gra	gC/m ³
V0SedPOC1	sedimentation velocity POC1	m/d
V0SedPOC2	sedimentation velocity POC2	m/d
V0SedPOC3	sedimentation velocity POC3	m/d
V0SedPOC4	sedimentation velocity POC4	m/d
RadMacrop	irradiation at the top of EM	W/m ²
KMCO2SM01	half-saturation value CO2 + H2CO3 SM01	gC/m ³
KMHCO3SM01	half-saturation value HCO3 SM01	gC/m ³
KMCO2SM02	half-saturation value CO2 + H2CO3 SM02	gC/m ³

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Table 12.1 – continued from previous page

Process	Description	Unit
KMHCO3SM02	half-saturation value HCO3 SM02	gC/m ³
KMCO2SM03	half-saturation value CO2 + H2CO3 SM03	gC/m ³
KMHCO3SM03	half-saturation value HCO3 SM03	gC/m ³
KMCO2SM04	half-saturation value CO2 + H2CO3 SM04	gC/m ³
KMHCO3SM04	half-saturation value HCO3 SM04	gC/m ³
KMCO2SM05	half-saturation value CO2 + H2CO3 SM05	gC/m ³
KMHCO3SM05	half-saturation value HCO3 SM05	gC/m ³
dSM03OXY	oxygen production SM03	gO/m ³ /d
dSM03CO2	CO2 uptake SM03	gO/m ³ /d
dSM04OXY	oxygen production SM04	gO/m ³ /d
dSM04CO2	CO2 uptake SM04	gO/m ³ /d
dSM05OXY	oxygen production SM05	gO/m ³ /d
dSM05CO2	CO2 uptake SM05	gO/m ³ /d
Mussel_V	conc struct biomass of DEB Mussel	gC/m ³ ∨ gC/m ²
Zoopl_V	conc struct biomass of DEB Zoopl	gC/m ³ ∨ gC/m ²
no_basin	actual number of basins set by the code	-

13 Exchange related process input without a default value

Table 13.1: Exchange related process input without a default value

Process	Description	Unit
XLenFrom XLenTo	from-length to-length	m m

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14 Segment related process output not used by other processes

Table 14.1: Segment related process output not used by other processes

Item	Description	Unit	Process
WinDir	Wind direction at location	degree	Meteo
RadSN	non refl. net short wave rad. reaching wat	W/m ²	HeatBal
cloud	Cloud coverage fraction	-	HeatBal
Psvap	saturated vapour pressure in air	mbar	HeatBal
EmissAtm	Emissivity colour factor for the atmosphere	-	HeatBal
RadAN	non refl. net atm long wave rad. reach wat	W/m ²	HeatBal
RadBR	Long wave back radiation from water	W/m ²	HeatBal
RadLat	Latent heat flux by evaporation or cond.	W/m ²	HeatBal
HtCond	sensible heat of conduction	W/m ²	HeatBal
HtTot	Total heat flux	W/m ²	HeatBal
PvapWa	sat vapour pressure at water-air interface	mbar	HeatBal
VWinda	Calculated wind speed	m/s	HeatBal
Vevap	Evaporation rate	m/s	HeatBal
RCHeat	temperature exchange rate	1/d	Temperatur
SurTemp	Surplus temperature	°C	Temperatur
FlowDir	flow direction relative to North	degrees	Veloc
Veloc1	horizontal flow velocity first direction	m/s	Veloc
Veloc2	horizontal flow velocity second direction	m/s	Veloc
ResTim	residence time	s	ResTim
Ddir1	Dispersion direction 1	m ² /s	HDisperVel
Ddir2	Dispersion direction 2	m ² /s	HDisperVel
AgeTR1	calculated AGE for water from source 1	d	Age1
AgeTR2	calculated AGE for water from source 2	d	Age2
AgeTR3	calculated AGE for water from source 3	d	Age3
AgeTR4	calculated AGE for water from source 4	d	Age4
AgeTR5	calculated AGE for water from source 5	d	Age5
TauVELOC	bottom shear stress caused by flow velocities	N/m ²	CalTau
TauWIND	bottom shear stress caused by wind	N/m ²	CalTau
CalVelTau	calculated 'velocity' from total tau	m/s	CalTau
DisCO3	concentration of dissolved CO32-	gC/m ³	pH_carb
FrCO2dis	fraction of dissolved carbon dioxide	-	SpecCarb
FrH2CO3d	fraction of dissolved true H2CO3	-	SpecCarb
FrHCO3dis	fraction of dissolved HCO3-	-	SpecCarb
ExtVIOSS	VL extinction by POC	1/m	Extinc_VLG
ExtUVOSS	UV extinction by POC	1/m	Extinc_UVG
ExtVISS	VL extinction by inorganic suspended matter	1/m	Extinc_VLG
ExtUvISS	UV extinction by inorganic suspended matter	1/m	Extinc_UVG
RadDay	actual irradiation at the upper-boundary	W/m ²	CalcRadDay
BlmDep_out	average depth over Bloom time step OUTPUT	m	DepAve
FRACTIME01	time-fraction tracer originating from layer 1	-	vtrans
FRACTIME02	time-fraction tracer originating from layer 2	-	vtrans
FRACTIME03	time-fraction tracer originating from layer 3	-	vtrans
FRACTIME04	time-fraction tracer originating from layer 4	-	vtrans
FRACTIME05	time-fraction tracer originating from layer 5	-	vtrans
FRACTIME06	time-fraction tracer originating from layer 6	-	vtrans
FRACTIME07	time-fraction tracer originating from layer 7	-	vtrans
FRACTIME08	time-fraction tracer originating from layer 8	-	vtrans
FRACTIME09	time-fraction tracer originating from layer 9	-	vtrans
FRACTIME10	time-fraction tracer originating from layer 10	-	vtrans
FRACTIME11	time-fraction tracer originating from layer 11	-	vtrans
FRACTIME12	time-fraction tracer originating from layer 12	-	vtrans
FRACTIME13	time-fraction tracer originating from layer 13	-	vtrans
FRACTIME14	time-fraction tracer originating from layer 14	-	vtrans
FRACTIME15	time-fraction tracer originating from layer 15	-	vtrans
FRACTIME16	time-fraction tracer originating from layer 16	-	vtrans
FRACTIME17	time-fraction tracer originating from layer 17	-	vtrans
FRACTIME18	time-fraction tracer originating from layer 18	-	vtrans
FRACTIME19	time-fraction tracer originating from layer 19	-	vtrans
FRACTIME20	time-fraction tracer originating from layer 20	-	vtrans
FRACTIME21	time-fraction tracer originating from layer 21	-	vtrans
FRACTIME22	time-fraction tracer originating from layer 22	-	vtrans
FRACTIME23	time-fraction tracer originating from layer 23	-	vtrans
FRACTIME24	time-fraction tracer originating from layer 24	-	vtrans
FRACTIME25	time-fraction tracer originating from layer 25	-	vtrans
FRACTIME26	time-fraction tracer originating from layer 26	-	vtrans
FRACTIME27	time-fraction tracer originating from layer 27	-	vtrans
FRACTIME28	time-fraction tracer originating from layer 28	-	vtrans

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Table 14.1 – continued from previous page

Item	Description	Unit	Process
FRACTIME29	time-fraction tracer originating from layer 29	-	vtrans
FRACTIME30	time-fraction tracer originating from layer 30	-	vtrans
FRACTIME31	time-fraction tracer originating from layer 31	-	vtrans
FRACTIME32	time-fraction tracer originating from layer 32	-	vtrans
FRACTIME33	time-fraction tracer originating from layer 33	-	vtrans
FRACTIME34	time-fraction tracer originating from layer 34	-	vtrans
FRACTIME35	time-fraction tracer originating from layer 35	-	vtrans
FRACTIME36	time-fraction tracer originating from layer 36	-	vtrans
FRACTIME37	time-fraction tracer originating from layer 37	-	vtrans
FRACTIME38	time-fraction tracer originating from layer 38	-	vtrans
FRACTIME39	time-fraction tracer originating from layer 39	-	vtrans
FRACTIME40	time-fraction tracer originating from layer 40	-	vtrans
FRACTIME41	time-fraction tracer originating from layer 41	-	vtrans
FRACTIME42	time-fraction tracer originating from layer 42	-	vtrans
FRACTIME43	time-fraction tracer originating from layer 43	-	vtrans
FRACTIME44	time-fraction tracer originating from layer 44	-	vtrans
FRACTIME45	time-fraction tracer originating from layer 45	-	vtrans
FRACTIME46	time-fraction tracer originating from layer 46	-	vtrans
FRACTIME47	time-fraction tracer originating from layer 47	-	vtrans
FRACTIME48	time-fraction tracer originating from layer 48	-	vtrans
FRACTIME49	time-fraction tracer originating from layer 49	-	vtrans
FRACTIME50	time-fraction tracer originating from layer 50	-	vtrans
FRACTIME51	time-fraction tracer originating from layer 51	-	vtrans
FRACTIME52	time-fraction tracer originating from layer 52	-	vtrans
FRACTIME53	time-fraction tracer originating from layer 53	-	vtrans
FRACTIME54	time-fraction tracer originating from layer 54	-	vtrans
FRACTIME55	time-fraction tracer originating from layer 55	-	vtrans
FRACTIME56	time-fraction tracer originating from layer 56	-	vtrans
FRACTIME57	time-fraction tracer originating from layer 57	-	vtrans
FRACTIME58	time-fraction tracer originating from layer 58	-	vtrans
FRACTIME59	time-fraction tracer originating from layer 59	-	vtrans
FRACTIME60	time-fraction tracer originating from layer 60	-	vtrans
FRACTIME61	time-fraction tracer originating from layer 61	-	vtrans
FRACTIME62	time-fraction tracer originating from layer 62	-	vtrans
FRACTIME63	time-fraction tracer originating from layer 63	-	vtrans
FRACTIME64	time-fraction tracer originating from layer 64	-	vtrans
FRACTIME65	time-fraction tracer originating from layer 65	-	vtrans
FRACTIME66	time-fraction tracer originating from layer 66	-	vtrans
FRACTIME67	time-fraction tracer originating from layer 67	-	vtrans
FRACTIME68	time-fraction tracer originating from layer 68	-	vtrans
FRACTIME69	time-fraction tracer originating from layer 69	-	vtrans
FRACTIME70	time-fraction tracer originating from layer 70	-	vtrans
FRACTIME71	time-fraction tracer originating from layer 71	-	vtrans
FRACTIME72	time-fraction tracer originating from layer 72	-	vtrans
FRACTIME73	time-fraction tracer originating from layer 73	-	vtrans
FRACTIME74	time-fraction tracer originating from layer 74	-	vtrans
FRACTIME75	time-fraction tracer originating from layer 75	-	vtrans
FRACTIME76	time-fraction tracer originating from layer 76	-	vtrans
FRACTIME77	time-fraction tracer originating from layer 77	-	vtrans
FRACTIME78	time-fraction tracer originating from layer 78	-	vtrans
FRACTIME79	time-fraction tracer originating from layer 79	-	vtrans
FRACTIME80	time-fraction tracer originating from layer 80	-	vtrans
FRACTIME81	time-fraction tracer originating from layer 81	-	vtrans
FRACTIME82	time-fraction tracer originating from layer 82	-	vtrans
FRACTIME83	time-fraction tracer originating from layer 83	-	vtrans
FRACTIME84	time-fraction tracer originating from layer 84	-	vtrans
FRACTIME85	time-fraction tracer originating from layer 85	-	vtrans
FRACTIME86	time-fraction tracer originating from layer 86	-	vtrans
FRACTIME87	time-fraction tracer originating from layer 87	-	vtrans
FRACTIME88	time-fraction tracer originating from layer 88	-	vtrans
FRACTIME89	time-fraction tracer originating from layer 89	-	vtrans
FRACTIME90	time-fraction tracer originating from layer 90	-	vtrans
FRACTIME91	time-fraction tracer originating from layer 91	-	vtrans
FRACTIME92	time-fraction tracer originating from layer 92	-	vtrans
FRACTIME93	time-fraction tracer originating from layer 93	-	vtrans
FRACTIME94	time-fraction tracer originating from layer 94	-	vtrans
FRACTIME95	time-fraction tracer originating from layer 95	-	vtrans
FRACTIME96	time-fraction tracer originating from layer 96	-	vtrans
FRACTIME97	time-fraction tracer originating from layer 97	-	vtrans
FRACTIME98	time-fraction tracer originating from layer 98	-	vtrans
FRACTIME99	time-fraction tracer originating from layer 99	-	vtrans

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Table 14.1 – continued from previous page

Item	Description	Unit	Process
FRACIM100	time-fraction tracer originating from layer100	-	vtrans
ReqDin	uptake of nitrogen	gN/m ³ /d	BLOOM_P
FracUptNH4	fraction of NH4 in uptake of nitrogen	-	BLOOM_P
BOD5/infPH	BOD5:BODu ratio in phytoplankton	-	BLOOM_P
Limit Chlo	total chlorophyll in algae	mgChl/m ³	BLOOM_P
Limit nit	limiting factor nitrogen	-	BLOOM_P
Limit pho	limiting factor phosphorus	-	BLOOM_P
Limit sil	limiting factor silicate	-	BLOOM_P
Limit e	limiting factor energy	-	BLOOM_P
Limit gro	limiting factor growth	-	BLOOM_P
Limit mor	limiting factor mortality	-	BLOOM_P
fFixNUpt	uptake flux of nitrogen by fixation	gN/(m ² d)	BLOOM_P
RcPPALG	Effective production of group	1/d	BLOOM_P
RcMrtALG	Effective mortality of group	1/d	BLOOM_P
Phyt_bl	total carbon in phytoplankton	gC/m ³	BLOOM_P
AlgN_bl	total nitrogen in algae	gN/m ³	BLOOM_P
AlgP_bl	total phosphorus in algae	gP/m ³	BLOOM_P
AlgSi_bl	total silica in algae	gSi/m ³	BLOOM_P
AlgDM_bl	total DM in algae	gDM/m ³	BLOOM_P
Chlfa_bl	Chlorophyll-a concentration	mg/m ³	BLOOM_P
RcPPALG01	Effective production rate algae type 01	1/d	BLOOM
RcPPALG02	Effective production rate algae type 02	1/d	BLOOM
RcPPALG03	Effective production rate algae type 03	1/d	BLOOM
RcPPALG04	Effective production rate algae type 04	1/d	BLOOM
RcPPALG05	Effective production rate algae type 05	1/d	BLOOM
RcPPALG06	Effective production rate algae type 06	1/d	BLOOM
RcPPALG07	Effective production rate algae type 07	1/d	BLOOM
RcPPALG08	Effective production rate algae type 08	1/d	BLOOM
RcPPALG09	Effective production rate algae type 09	1/d	BLOOM
RcPPALG10	Effective production rate algae type 10	1/d	BLOOM
RcPPALG11	Effective production rate algae type 11	1/d	BLOOM
RcPPALG12	Effective production rate algae type 12	1/d	BLOOM
RcPPALG13	Effective production rate algae type 13	1/d	BLOOM
RcPPALG14	Effective production rate algae type 14	1/d	BLOOM
RcPPALG15	Effective production rate algae type 15	1/d	BLOOM
RcPPALG16	Effective production rate algae type 16	1/d	BLOOM
RcPPALG17	Effective production rate algae type 17	1/d	BLOOM
RcPPALG18	Effective production rate algae type 18	1/d	BLOOM
RcPPALG19	Effective production rate algae type 19	1/d	BLOOM
RcPPALG20	Effective production rate algae type 20	1/d	BLOOM
RcPPALG21	Effective production rate algae type 21	1/d	BLOOM
RcPPALG22	Effective production rate algae type 22	1/d	BLOOM
RcPPALG23	Effective production rate algae type 23	1/d	BLOOM
RcPPALG24	Effective production rate algae type 24	1/d	BLOOM
RcPPALG25	Effective production rate algae type 25	1/d	BLOOM
RcPPALG26	Effective production rate algae type 26	1/d	BLOOM
RcPPALG27	Effective production rate algae type 27	1/d	BLOOM
RcPPALG28	Effective production rate algae type 28	1/d	BLOOM
RcPPALG29	Effective production rate algae type 29	1/d	BLOOM
RcPPALG30	Effective production rate algae type 30	1/d	BLOOM
RcMrtALG01	Effective mortality rate algae type 01	1/d	BLOOM
RcMrtALG02	Effective mortality rate algae type 02	1/d	BLOOM
RcMrtALG03	Effective mortality rate algae type 03	1/d	BLOOM
RcMrtALG04	Effective mortality rate algae type 04	1/d	BLOOM
RcMrtALG05	Effective mortality rate algae type 05	1/d	BLOOM
RcMrtALG06	Effective mortality rate algae type 06	1/d	BLOOM
RcMrtALG07	Effective mortality rate algae type 07	1/d	BLOOM
RcMrtALG08	Effective mortality rate algae type 08	1/d	BLOOM
RcMrtALG09	Effective mortality rate algae type 09	1/d	BLOOM
RcMrtALG10	Effective mortality rate algae type 10	1/d	BLOOM
RcMrtALG11	Effective mortality rate algae type 11	1/d	BLOOM
RcMrtALG12	Effective mortality rate algae type 12	1/d	BLOOM
RcMrtALG13	Effective mortality rate algae type 13	1/d	BLOOM
RcMrtALG14	Effective mortality rate algae type 14	1/d	BLOOM
RcMrtALG15	Effective mortality rate algae type 15	1/d	BLOOM
RcMrtALG16	Effective mortality rate algae type 16	1/d	BLOOM
RcMrtALG17	Effective mortality rate algae type 17	1/d	BLOOM
RcMrtALG18	Effective mortality rate algae type 18	1/d	BLOOM
RcMrtALG19	Effective mortality rate algae type 19	1/d	BLOOM
RcMrtALG20	Effective mortality rate algae type 20	1/d	BLOOM

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Table 14.1 – continued from previous page

Item	Description	Unit	Process
RcMrtALG21	Effective mortality rate algae type 21	1/d	BLOOM
RcMrtALG22	Effective mortality rate algae type 22	1/d	BLOOM
RcMrtALG23	Effective mortality rate algae type 23	1/d	BLOOM
RcMrtALG24	Effective mortality rate algae type 24	1/d	BLOOM
RcMrtALG25	Effective mortality rate algae type 25	1/d	BLOOM
RcMrtALG26	Effective mortality rate algae type 26	1/d	BLOOM
RcMrtALG27	Effective mortality rate algae type 27	1/d	BLOOM
RcMrtALG28	Effective mortality rate algae type 28	1/d	BLOOM
RcMrtALG29	Effective mortality rate algae type 29	1/d	BLOOM
RcMrtALG30	Effective mortality rate algae type 30	1/d	BLOOM
BLOOMGRP	algae group concentration	gC/m ³	Phy_Blo_P
BLOOMGRP01	algae group 1 concentration	gC/m ³	Phy_Blo
BLOOMGRP02	algae group 2 concentration	gC/m ³	Phy_Blo
BLOOMGRP03	algae group 3 concentration	gC/m ³	Phy_Blo
BLOOMGRP04	algae group 4 concentration	gC/m ³	Phy_Blo
BLOOMGRP05	algae group 5 concentration	gC/m ³	Phy_Blo
BLOOMGRP06	algae group 6 concentration	gC/m ³	Phy_Blo
BLOOMGRP07	algae group 7 concentration	gC/m ³	Phy_Blo
BLOOMGRP08	algae group 8 concentration	gC/m ³	Phy_Blo
BLOOMGRP09	algae group 9 concentration	gC/m ³	Phy_Blo
BLOOMGRP10	algae group 10 concentration	gC/m ³	Phy_Blo
BLOOMGRP11	algae group 11 concentration	gC/m ³	Phy_Blo
BLOOMGRP12	algae group 12 concentration	gC/m ³	Phy_Blo
BLOOMGRP13	algae group 13 concentration	gC/m ³	Phy_Blo
BLOOMGRP14	algae group 14 concentration	gC/m ³	Phy_Blo
BLOOMGRP15	algae group 15 concentration	gC/m ³	Phy_Blo
BLOOMGRP16	algae group 16 concentration	gC/m ³	Phy_Blo
BLOOMGRP17	algae group 17 concentration	gC/m ³	Phy_Blo
BLOOMGRP18	algae group 18 concentration	gC/m ³	Phy_Blo
BLOOMGRP19	algae group 19 concentration	gC/m ³	Phy_Blo
BLOOMGRP20	algae group 20 concentration	gC/m ³	Phy_Blo
BLOOMGRP21	algae group 21 concentration	gC/m ³	Phy_Blo
BLOOMGRP22	algae group 22 concentration	gC/m ³	Phy_Blo
BLOOMGRP23	algae group 23 concentration	gC/m ³	Phy_Blo
BLOOMGRP24	algae group 24 concentration	gC/m ³	Phy_Blo
BLOOMGRP25	algae group 25 concentration	gC/m ³	Phy_Blo
BLOOMGRP26	algae group 26 concentration	gC/m ³	Phy_Blo
BLOOMGRP27	algae group 27 concentration	gC/m ³	Phy_Blo
BLOOMGRP28	algae group 28 concentration	gC/m ³	Phy_Blo
BLOOMGRP29	algae group 29 concentration	gC/m ³	Phy_Blo
BLOOMGRP30	algae group 30 concentration	gC/m ³	Phy_Blo
POMnoa	total POM no algae	gDM/m ³	Compos
PONnoa	total PON no algae	gN/m ³	Compos
POPnoa	total POP no algae	gP/m ³	Compos
POSnoa	total POS no algae	gS/m ³	Compos
TIMS1	total inorganic matter in layer S1	gDM/m ²	S1_Comp
POMS1	Particulate Organic Matter in layer S1	gDW/m ²	S1_Comp
FrGreenS1	fraction Greens in layer S1	gC/gDM	S1_Comp
TIMS2	total inorganic matter in layer S2	gDM/m ²	S2_Comp
POMS2	Particulate Organic Matter in layer S2	gDW/m ²	S2_Comp
FrGreenS2	fraction Greens in layer S2	gC/gDM	S2_Comp
TPMnoalg	total particulate matter excluding algae	gdw/m ³	Compos
TOC	total organic C including algae	gC/m ³	Compos
POC	Particulate Organic Carbon including algae	gC/m ³	Compos
TotN	total nitrogen including algae	gN/m ³	Compos
Kjeln	Kjeldahl nitrogen	gN/m ³	Compos
DIN	dissolved inorganic nitrogen	gN/m ³	Compos
TON	total organic N including algae	gN/m ³	Compos
PON	Particulate Organic Nitrogen including algae	gN/m ³	Compos
TotP	total phosphorus including algae	gP/m ³	Compos
TOP	total organic P including algae	gP/m ³	Compos
POP	particulate organic P incl algae	gP/m ³	Compos
PIP	Particulate Inorganic Phosphorus	gP/m ³	Compos
FrAAPTIM	fraction AAP of total inorganic matter	gP/gDM	Compos
TotSi	total silica including algae	gSi/m ³	Compos
Rho	overall bulk density	g/m ³	DMVolume
VolumDM	volume of dry matter	m ³	DMVolume
MrtToEColi	overall mortality rate EColi	1/d	EColiMrt

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Item	Description	Unit	Process
MrtRaEColi	mortality rate due to by radiation EColi	1/d	EColiMrt
MrtToFColi	overall mortality rate FColi	1/d	FColiMrt
MrtRaFColi	mortality rate due to by radiation FColi	1/d	FColiMrt
MrtToTColi	overall mortality rate TColi	1/d	TColiMrt
MrtRaTColi	mortality rate due to by radiation TColi	1/d	TColiMrt
MrtToEnCoc	overall mortality rate EnCoc	1/d	EnCocMrt
MrtRaEnCoc	mortality rate due to by radiation EnCoc	1/d	EnCocMrt
RCREARCO2	rate constant for reaeration of CO2	1/d	RearCO2
SatPercCO2	Actual saturation percentage CO2	%	RearCO2
EqAAP	equilibrium concentration of AAP	gP/m ³	AdsPO4AAP
Atot_AAP	total concentration adsorption sites for PO4	(mol l)	AdsPO4AAP
KadsP_app	Adsorption equilibrium constant at ambient temp.	l/mol ²	AdsPO4AAP
O2FuncDEN	oxygen function for denitrification	-	DenWat_NO3
O2FuncNIT	oxygen function for nitrification	-	Nitrif_NH4
RCREAR	rate constant for reaeration	1/d	RearOXY
SatPercOXY	Actual saturation percentage O2	%	RearOXY
ActualTime	actual time	h	VAROXY
O2FuncBOD	oxygen function for decay of CBOD	-	BODCOD
AgeFun	age function for decay CBOD and NBOD	-	BODCOD
BOD5	BOD5	gO2/m ³	BODCOD
BODu	calculated carbonaceous BOD at ultimate	gO2/m ³	BODCOD
COD	Chemical oxygen demand COD	gO2/m ³	BODCOD
BOD5-POC	contribution of POC to BOD5	gO2/m ³	BODCOD
BODu-POC	contribution of POC to calculated BODu	gO2/m ³	BODCOD
BOD5-Phyt	contribution of phytoplankton to BOD5	gO2/m ³	BODCOD
BODu-Phyt	contribution of Phyt to calculated BODu	gO2/m ³	BODCOD
BODN	calculated nitrogenous BOD at ultimate	gO2/m ³	BODCOD
CBODu_3	carbonaceous BOD third pool ultimate	gO2/m ³	DBOD_TEWOR
k_decPOC5	first order decay rate POC5	1/d	DecPOC5
f_dt5stoN	enh. factor mineralisation med. decaying detr.-	-	DecPOC5
f_dt5stoP	enh. factor mineralisation med. decaying detr.-	-	DecPOC5
f_minPOC5e	mineralization flux POC5 emerged	gC/m ³ /d	DecPOC5
dDissolSi	dissolution flux Opal to Si	gSi/m ³ /d	DisSi
FISODtot	total oxygen consumption	gO2/(m ² d)	SedOXYDem
FICH4	methane bubble flux as O2	gO2/(m ² d)	SedOXYDem
DifCH4bub	diffusion CH4 from bubbles as O2	gO2/(m ² d)	SedOXYDem
DifCH4dis	diffusion dissolved CH4 as O2	gO2/(m ² d)	SedOXYDem
hSatCH4	saturation depth methane	m	SedOXYDem
hAer	aerobic depth	m	SedOXYDem
dCH4	methane production from SOD	gO2/m ³ /d	SedOXYDem
dOxSOD	oxygen consumption from SOD	gO2/m ³ /d	SedOXYDem
dOxMinSed	oxygen consumption from mineralisation DetC & OOC	gO2/m ³ /d	SedOXYDem
dSOD	decay flux of SOD	gO2/m ³ /d	SedOXYDem
LimNgreen	nitrogen limitation function Greens <0-1>	-	NLGreen
LimPgreen	phosphorus limitation function Greens <0-1>	-	NLGreen
LimSigreen	silicate limitation function Greens <0-1>	-	NLGreen
LimNdiat	nitrogen limitation function Diatoms <0-1>	-	NLDiat
LimPdiat	phosphorus limitation function Diatoms <0-1>	-	NLDiat
LimSidiat	silicate limitation function Diatoms <0-1>	-	NLDiat
RcMrtGreen	mortality rate Greens	1/d	GroMrt_Gre
RcMrtDiat	mortality rate Diatoms	1/d	GroMrt_Dia
RcGroDiaS1	net primary production rate Diatoms in layer S1	gC/(m ² d)	GroMrt_DS1
RcMrtDiaS1	mortality rate Diatoms in layer S1	1/d	GroMrt_DS1
RcRespDiS1	respiration rate Diatoms in layer S1	1/d	GroMrt_DS1
EffNutDiS1	nutrient efficiency function Diatoms <0-1>	-	GroMrt_DS1
EffLigDiS1	light efficiency function Diatoms <0-1>	-	GroMrt_DS1
OXYMIN	potential minimum dissolved oxygen concentration	gO2/m ³	OXYMin
FrOxCon	relative contribution of oxygen consumption	-	CONSELAC
FrNiDen	relative contribution of denitrification	-	CONSELAC
FrFeRed	relative contribution of iron reduction	-	CONSELAC
FrSuRed	relative contribution of sulphate reduction	-	CONSELAC
FrMetGen	relative contribution of methanogenesis	-	CONSELAC
CH4Sat	saturation concentration of methane	-	EBULCH4
RCVolCH4	rate constant for volatilisation	1/d	VolatCH4
SatPercCH4	Actual saturation percentage of methane	%	VolatCH4
DisH2SWK	hydrogen sulphide concentration H2S	(mol l)	SPECSUD
FrHSdis	fraction HS- in water column	-	SPECSUD
FrH2SdisS1	fraction of dissolved hydrogen sulphide S1	-	SPECSUDS1
FrHSdisS1	fraction HS- in S1	-	SPECSUDS1
FrS2disS1	fraction dissolved free sulphide S1	-	SPECSUDS1

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Item	Description	Unit	Process
FrH2SdisS2	fraction of dissolved hydrogen sulphide S2	-	SPECSUDS2
FrHSdisS2	fraction HS- in S2	-	SPECSUDS2
FrS2disS2	fraction dissolved free sulphide S2	-	SPECSUDS2
OxFuncMet	oxygen function for methane oxidation	-	OXIDCH4
SuFuncMet	sulphate function for methane oxidation	-	OXIDCH4
LIFuncMet	light inhibition function for methane ox	-	OXIDCH4
DisFe3	concentration of free dissolved ironIII	(mol l)	SPECIRON
DisFe3OH	concentration of dissolved FeOH2+	(mol l)	SPECIRON
DisFe3OH2	concentration of dissolved FeOH2+	(mol l)	SPECIRON
FrFe3OHd	fraction of dissolved FeOH2+	-	SPECIRON
FrFe3OH2d	fraction of dissolved FeOH2+	-	SPECIRON
DisFe2	concentration of free dissolved ironII	(mol l)	SPECIRON
DisFe2OH	concentration of dissolved FeOH+	(mol l)	SPECIRON
DisFe2OH2	concentration of dissolved FeOH2	(mol l)	SPECIRON
fioo	rate of iron oxidation with oxygen	gFe/m ³ /d	IRONOX
fion	rate of iron oxidation with nitrate	gFe/m ³ /d	IRONOX
fFeSox	rate of iron sulphide oxidation	gFe/m ³ /d	SULPHOX
fFeS2ox	rate of of pyrite oxidation	gFe/m ³ /d	SULPHOX
fire1	rate of amorphous iron red. with H2S	gFe/m ³ /d	IRONRED
fire2	rate of crystalline iron red. with H2S	gFe/m ³ /d	IRONRED
fire3	rate of amorphous iron red. with FeS	gFe/m ³ /d	IRONRED
fire4	rate of crystalline iron red. with FeS	gFe/m ³ /d	IRONRED
fpfe3	rate of amorphous ironIII precipitat.	gFe/m ³ /d	PRIRON
fdfe3	rate of amorphous ironIII dissolution	gFe/m ³ /d	PRIRON
fafe3	rate of amorphous ironIII aging	gFe/m ³ /d	PRIRON
fpfes	rate of ironII sulphide precipitation	gFe/m ³ /d	PRIRON
fdfes	rate of ironII sulphide dissolution	gFe/m ³ /d	PRIRON
fpfeco3	rate of ironII carbonate precipitation	gFe/m ³ /d	PRIRON
fdfeco3	rate of ironII carbonate dissolution	gFe/m ³ /d	PRIRON
fpvr	rate of pyrite formation	gFe/m ³ /d	PRIRON
SalFunIM1	salinity function on settling IM1	-	CalVS_IM1
FloFunIM1	flocculation function on settling IM1	-	CalVS_IM1
SalFunIM2	salinity function on settling IM2	-	CalVS_IM2
FloFunIM2	flocculation function on settling IM2	-	CalVS_IM2
SalFunIM3	salinity function on settling IM3	-	CalVS_IM3
FloFunIM3	flocculation function on settling IM3	-	CalVS_IM3
SalFunDiat	salinity function on settling Diatoms	-	CalVS_Diat
FloFunDiat	flocculation function on settling Diatoms	-	CalVS_Diat
SalFunGree	salinity function on settling Greens	-	CalVS_Gree
FloFunGree	flocculation function on settling Greens	-	CalVS_Gree
SalFnAlg	salinity function on sedimentation algae type	-	CalVSALG
FloFnAlg	flocculation function on sedimentation algae type	-	CalVSALG
SalFnAlg01	salinity function on settling algae type 01	-	CalVSALG01
FloFnAlg01	flocculation function on settling algae type 01	-	CalVSALG01
SalFnAlg02	salinity function on settling algae type 02	-	CalVSALG02
FloFnAlg02	flocculation function on settling algae type 02	-	CalVSALG02
SalFnAlg03	salinity function on settling algae type 03	-	CalVSALG03
FloFnAlg03	flocculation function on settling algae type 03	-	CalVSALG03
SalFnAlg04	salinity function on settling algae type 04	-	CalVSALG04
FloFnAlg04	flocculation function on settling algae type 04	-	CalVSALG04
SalFnAlg05	salinity function on settling algae type 05	-	CalVSALG05
FloFnAlg05	flocculation function on settling algae type 05	-	CalVSALG05
SalFnAlg06	salinity function on settling algae type 06	-	CalVSALG06
FloFnAlg06	flocculation function on settling algae type 06	-	CalVSALG06
SalFnAlg07	salinity function on settling algae type 07	-	CalVSALG07
FloFnAlg07	flocculation function on settling algae type 07	-	CalVSALG07
SalFnAlg08	salinity function on settling algae type 08	-	CalVSALG08
FloFnAlg08	flocculation function on settling algae type 08	-	CalVSALG08
SalFnAlg09	salinity function on settling algae type 09	-	CalVSALG09
FloFnAlg09	flocculation function on settling algae type 09	-	CalVSALG09
SalFnAlg10	salinity function on settling algae type 10	-	CalVSALG10
FloFnAlg10	flocculation function on settling algae type 10	-	CalVSALG10
SalFnAlg11	salinity function on settling algae type 11	-	CalVSALG11
FloFnAlg11	flocculation function on settling algae type 11	-	CalVSALG11
SalFnAlg12	salinity function on settling algae type 12	-	CalVSALG12
FloFnAlg12	flocculation function on settling algae type 12	-	CalVSALG12
SalFnAlg13	salinity function on settling algae type 13	-	CalVSALG13
FloFnAlg13	flocculation function on settling algae type 13	-	CalVSALG13
SalFnAlg14	salinity function on settling algae type 14	-	CalVSALG14
FloFnAlg14	flocculation function on settling algae type 14	-	CalVSALG14

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Item	Description	Unit	Process
SalFnAlg15	salinity function on settling algae type 15	-	CalVSALG15
FloFnAlg15	flocculation function on settling algae type 15	-	CalVSALG15
SalFnAlg16	salinity function on settling algae type 16	-	CalVSALG16
FloFnAlg16	flocculation function on settling algae type 16	-	CalVSALG16
SalFnAlg17	salinity function on settling algae type 17	-	CalVSALG17
FloFnAlg17	flocculation function on settling algae type 17	-	CalVSALG17
SalFnAlg18	salinity function on settling algae type 18	-	CalVSALG18
FloFnAlg18	flocculation function on settling algae type 18	-	CalVSALG18
SalFnAlg19	salinity function on settling algae type 19	-	CalVSALG19
FloFnAlg19	flocculation function on settling algae type 19	-	CalVSALG19
SalFnAlg20	salinity function on settling algae type 20	-	CalVSALG20
FloFnAlg20	flocculation function on settling algae type 20	-	CalVSALG20
SalFnAlg21	salinity function on settling algae type 21	-	CalVSALG21
FloFnAlg21	flocculation function on settling algae type 21	-	CalVSALG21
SalFnAlg22	salinity function on settling algae type 22	-	CalVSALG22
FloFnAlg22	flocculation function on settling algae type 22	-	CalVSALG22
SalFnAlg23	salinity function on settling algae type 23	-	CalVSALG23
FloFnAlg23	flocculation function on settling algae type 23	-	CalVSALG23
SalFnAlg24	salinity function on settling algae type 24	-	CalVSALG24
FloFnAlg24	flocculation function on settling algae type 24	-	CalVSALG24
SalFnAlg25	salinity function on settling algae type 25	-	CalVSALG25
FloFnAlg25	flocculation function on settling algae type 25	-	CalVSALG25
SalFnAlg26	salinity function on settling algae type 26	-	CalVSALG26
FloFnAlg26	flocculation function on settling algae type 26	-	CalVSALG26
SalFnAlg27	salinity function on settling algae type 27	-	CalVSALG27
FloFnAlg27	flocculation function on settling algae type 27	-	CalVSALG27
SalFnAlg28	salinity function on settling algae type 28	-	CalVSALG28
FloFnAlg28	flocculation function on settling algae type 28	-	CalVSALG28
SalFnAlg29	salinity function on settling algae type 29	-	CalVSALG29
FloFnAlg29	flocculation function on settling algae type 29	-	CalVSALG29
SalFnAlg30	salinity function on settling algae type 30	-	CalVSALG30
FloFnAlg30	flocculation function on settling algae type 30	-	CalVSALG30
PSedIM1	sedimentation probability <0-1> IM1	-	Sed_IM1
PSedIM2	sedimentation probability <0-1> IM2	-	Sed_IM2
PSedIM3	sedimentation probability <0-1> IM3	-	Sed_IM3
PSedDiat	sedimentation probability <0-1> Diatoms	-	SedDiat
PSedGreen	sedimentation probability <0-1> Greens	-	Sed_Gre
PSedAlg	sedimentation probability <0-1> algae	-	SEDALG
PSedAlg01	sedimentation probability <0-1> algae type 01	-	SEDALG01
PSedAlg02	sedimentation probability <0-1> algae type 02	-	SEDALG02
PSedAlg03	sedimentation probability <0-1> algae type 03	-	SEDALG03
PSedAlg04	sedimentation probability <0-1> algae type 04	-	SEDALG04
PSedAlg05	sedimentation probability <0-1> algae type 05	-	SEDALG05
PSedAlg06	sedimentation probability <0-1> algae type 06	-	SEDALG06
PSedAlg07	sedimentation probability <0-1> algae type 07	-	SEDALG07
PSedAlg08	sedimentation probability <0-1> algae type 08	-	SEDALG08
PSedAlg09	sedimentation probability <0-1> algae type 09	-	SEDALG09
PSedAlg10	sedimentation probability <0-1> algae type 10	-	SEDALG10
PSedAlg11	sedimentation probability <0-1> algae type 11	-	SEDALG11
PSedAlg12	sedimentation probability <0-1> algae type 12	-	SEDALG12
PSedAlg13	sedimentation probability <0-1> algae type 13	-	SEDALG13
PSedAlg14	sedimentation probability <0-1> algae type 14	-	SEDALG14
PSedAlg15	sedimentation probability <0-1> algae type 15	-	SEDALG15
PSedAlg16	sedimentation probability <0-1> algae type 16	-	SEDALG16
PSedAlg17	sedimentation probability <0-1> algae type 17	-	SEDALG17
PSedAlg18	sedimentation probability <0-1> algae type 18	-	SEDALG18
PSedAlg19	sedimentation probability <0-1> algae type 19	-	SEDALG19
PSedAlg20	sedimentation probability <0-1> algae type 20	-	SEDALG20
PSedAlg21	sedimentation probability <0-1> algae type 21	-	SEDALG21
PSedAlg22	sedimentation probability <0-1> algae type 22	-	SEDALG22
PSedAlg23	sedimentation probability <0-1> algae type 23	-	SEDALG23
PSedAlg24	sedimentation probability <0-1> algae type 24	-	SEDALG24
PSedAlg25	sedimentation probability <0-1> algae type 25	-	SEDALG25
PSedAlg26	sedimentation probability <0-1> algae type 26	-	SEDALG26
PSedAlg27	sedimentation probability <0-1> algae type 27	-	SEDALG27
PSedAlg28	sedimentation probability <0-1> algae type 28	-	SEDALG28
PSedAlg29	sedimentation probability <0-1> algae type 29	-	SEDALG29
PSedAlg30	sedimentation probability <0-1> algae type 30	-	SEDALG30
PSedBOD5	sedimentation probability <0-1> CBOD5	-	S_CBOD51
PSedBOD5_2	sedimentation probability <0-1> CBOD5_2	-	S_CBOD52
PSedBOD5_3	sedimentation probability <0-1> CBOD5_3	-	S_CBOD53

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Item	Description	Unit	Process
PSedBODu	sedimentation probability <0-1> CBODu	-	S_CBODu1
PSedBODu_2	sedimentation probability <0-1> CBODu_2	-	S_CBODu2
PSedCODCr	sedimentation probability <0-1> COD_Cr	-	S_CODCr
PSedCODMn	sedimentation probability <0-1> COD_Mn	-	S_CODMn
PSedNBOD5	sedimentation probability <0-1> NBOD5	-	S_NBOD5
PSedNBODu	sedimentation probability <0-1> NBODu	-	S_NBODu
fSedSOD	total sedimentation flux BOD/COD fractions	gO ₂ /(m ² d)	SED_SOD
fSedPOMnoa	total sedimentation flux POM no algae	gDM/(m ² d)	Sum_Sedim
PSedMPB1	sedimentation probability <0-1> MPB1peli	-	Sed_MPB1
fSedMPB1	sedimentation flux MPB1peli	gC/(m ² d)	Sed_MPB1
PSedMPB2	sedimentation probability <0-1> MPB2psam	-	Sed_MPB2
fSedMPB2	sedimentation flux MPB2psam	gC/(m ² d)	Sed_MPB2
PSedOpal	sedimentation probability <0-1> Opal	-	Sed_Opal
fSedOpal	sedimentation flux Opal	gSi/(m ² d)	Sed_Opal
PSedPOC1	sedimentation probability <0-1> POC1	-	Sed_POC1
PSedPOC2	sedimentation probability <0-1> POC2	-	Sed_POC2
PSedPOC3	sedimentation probability <0-1> POC3	-	Sed_POC3
PSedPOC4	sedimentation probability <0-1> POC4	-	Sed_POC4
PSedVIVP	sedimentation probability <0-1> VIVP	-	Sed_VivP
fSedVIVP	sedimentation flux VIVP	gP/(m ² d)	Sed_VivP
PSedAPATP	sedimentation probability <0-1> APATP	-	Sed_ApatP
fSedAPATP	sedimentation flux APATP	gP/(m ² d)	Sed_ApatP
PSedFe3pa	sedimentation probability <0-1> Fe3pa	-	Sed_Fe3pa
fSedFe3pa	sedimentation flux Fe3pa	gFe/(m ² d)	Sed_Fe3pa
PSedFe3pc	sedimentation probability <0-1> Fe3pc	-	Sed_Fe3pc
fSedFe3pc	sedimentation flux Fe3pc	gFe/(m ² d)	Sed_Fe3pc
PSedFeS	sedimentation probability <0-1> FeS	-	Sed_FeS
fSedFeS	sedimentation flux FeS	gFe/(m ² d)	Sed_FeS
PSedFeS2	sedimentation probability <0-1> FeS2	-	Sed_FeS2
fSedFeS2	sedimentation flux FeS2	gFe/(m ² d)	Sed_FeS2
PSedFeCO3	sedimentation probability <0-1> FeCO3	-	Sed_FeCO3
fSedFeCO3	sedimentation flux FeCO3	gFe/(m ² d)	Sed_FeCO3
fSedPON1	sedimentation flux PON1	gN/(m ² d)	SedNPOC1
fSedPOP1	sedimentation flux POP1	gP/(m ² d)	SedNPOC1
fSedPON2	sedimentation flux PON2	gN/(m ² d)	SedNPOC2
fSedPOP2	sedimentation flux POP2	gP/(m ² d)	SedNPOC2
fSedPON3	sedimentation flux PON3	gN/(m ² d)	SedNPOC3
fSedPOP3	sedimentation flux POP3	gP/(m ² d)	SedNPOC3
fSedPON4	sedimentation flux PON4	gN/(m ² d)	SedNPOC4
fSedPOP4	sedimentation flux POP4	gP/(m ² d)	SedNPOC4
fSedTIM	total sedimentation flux IM fractions	gDM/(m ² d)	Sum_Sedim
fSedPOC	sum sedimentation flux POC	gC/(m ² d)	Sum_Sedim
fSedAAP	sedimentation flux AAP towards S1	gP/(m ² d)	Sed_AAP
PSedAAP	sedimentation probability <0-1> AAP	-	Sed_CAAP
PResS1DM	resuspension probability for layer S1 <0-inf>	-	Res_DM
PResS2DM	resuspension probability for layer S2 <0-inf>	-	Res_DM
fResS1IM1	resuspension flux IM1 from layer S1	g/(m ² d)	S12TraIM1
fResS2IM1	resuspension flux IM1 from layer S2	g/(m ² d)	S12TraIM1
fResS1IM2	resuspension flux IM2 from layer S1	g/(m ² d)	S12TraIM2
fResS2IM2	resuspension flux IM2 from layer S2	g/(m ² d)	S12TraIM2
fResS1IM3	resuspension flux IM3 from layer S1	g/(m ² d)	S12TraIM3
fResS2IM3	resuspension flux IM3 from layer S2	g/(m ² d)	S12TraIM3
fResS1DetC	resuspension flux DetC from layer S1	gC/(m ² d)	S12TraDetC
fResS2DetC	resuspension flux DetC from layer S2	gC/(m ² d)	S12TraDetC
fResS1OOC	resuspension flux OOC from layer S1	gC/(m ² d)	S12TraOOC
fResS2OOC	resuspension flux OOC from layer S2	gC/(m ² d)	S12TraOOC
fResS1MPB1	resuspension flux MPB1 from layer S1	gC/(m ² d)	S12TraMPB1
fResS2MPB1	resuspension flux MPB1 from layer S2	gC/(m ² d)	S12TraMPB1
fResS1MPB2	resuspension flux MPB2 from layer S1	gC/(m ² d)	S12TraMPB2
fResS2MPB2	resuspension flux MPB2 from layer S2	gC/(m ² d)	S12TraMPB2
UdfBurS1DM	zero-order burial rate DM from layer S1	gDM/(m ² d)	Bur_DM
ExcBurS1DM	excess burial DM from layer S1	gDM/(m ² d)	Bur_DM
UdfBurS2DM	zero-order burial rate DM from layer S2	gDM/(m ² d)	Bur_DM
ExcBurS2DM	excess burial DM from layer S2	gDM/(m ² d)	Bur_DM
fBurS1IM1	burial flux of IM1 from layer S1	g/(m ² d)	S12TraIM1
fBurS1IM2	burial flux IM2 from layer S1	g/(m ² d)	S12TraIM2
fBurS1IM3	burial flux IM3 from layer S1	g/(m ² d)	S12TraIM3
fBurS1Diat	burial flux Diatoms from layer S1	gC/(m ² d)	S12TraDiat
fSWBuS1Dia	burial flux of Diatoms from layer S1 using SWITCH	gC/(m ² d)	S12TraDiat

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Item	Description	Unit	Process
fBurS1DetC	burial flux DetC from layer S1	gC/(m ² d)	S12TraDetC
fSWBuS1DtC	burial flux of DetC from layer S1 using SWITCH	gC/(m ² d)	S12TraDetC
fBurS1OOC	burial flux OOC from layer S1	gC/(m ² d)	S12TraOOC
fSWBuS1OOC	burial flux of OOC from layer S1 using SWITCH	gC/(m ² d)	S12TraOOC
fBurS2IM1	burial flux IM1 from layer S2	g/(m ² d)	S12TraIM1
fBurS2IM2	burial flux IM2 from layer S2	g/(m ² d)	S12TraIM2
fBurS2IM3	burial flux IM3 from layer S2	g/(m ² d)	S12TraIM3
fBurS2DetC	burial flux DetC from layer S2	gC/(m ² d)	S12TraDetC
fBurS2OOC	burial flux OOC from layer S2	gC/(m ² d)	S12TraOOC
fBurS2Diat	burial flux Diatoms from layer S2	gC/(m ² d)	S12TraDiat
fDigS1IM1	digging flux IM1 to layer S1	g/(m ² d)	S12TraIM1
fDigS1IM2	digging flux IM2 to layer S1	g/(m ² d)	S12TraIM2
fDigS1IM3	digging flux IM3 to layer S1	g/(m ² d)	S12TraIM3
fDigS1DetC	digging flux DetC to layer S1	gC/(m ² d)	S12TraDetC
fDigS1OOC	digging flux OOC to layer S1	gC/(m ² d)	S12TraOOC
fDigS1Diat	digging flux Diatoms to layer S1	gC/(m ² d)	S12TraDiat
fDigS2IM1	digging flux IM1 to layer S2	g/(m ² d)	S12TraIM1
fDigS2IM2	digging flux IM2 to layer S2	g/(m ² d)	S12TraIM2
fDigS2IM3	digging flux IM3 to layer S2	g/(m ² d)	S12TraIM3
fDigS2DetC	digging flux DetC to layer S2	gC/(m ² d)	S12TraDetC
fDigS2OOC	digging flux OOC to layer S2	gC/(m ² d)	S12TraOOC
fDigS2Diat	digging flux Diatoms to layer S2	gC/(m ² d)	S12TraDiat
fResDM	net resuspension flux from segment	gDM/(m ² d)	AdvTra
PResDM	resuspension probability <0-inf>	-	AdvTra
fResTDM	gross resuspension flux from segment	g/(m ² d)	AdvTra
fBurDM	total burial flux dry matter	gDM/(m ² d)	AdvTra
FrCdDis	fraction free dissolved Cd in water column	-	PartWK_Cd
FrCdDOC	fraction Cd adsorbed to DOC	-	PartWK_Cd
FrCdSulf	fraction Cd as sulfide precipitate or complex	-	PartWK_Cd
DisCd	free dissolved Cd in water column	gCd/m ³	PartWK_Cd
DOCCd	Cd adsorbed to DOC	gCd/m ³	PartWK_Cd
Cdtot	total concentration Cd	g/m ³	PartWK_Cd
QCdSS	overall quality suspended solid for Cd	mgCd/kgDM	PartWK_Cd
KdCdSS	overall partition coefficient Cd in SS	m ³ /kgDM	PartWK_Cd
FrCrDis	fraction free dissolved Cr in water column	-	PartWK_Cr
FrCrDOC	fraction Cr adsorbed to DOC	-	PartWK_Cr
FrCrHydr	fraction Cr as hydroxide precip	-	PartWK_Cr
DisCr	free dissolved Cr in water column	gCr/m ³	PartWK_Cr
DOCCr	Cr adsorbed to DOC	gCr/m ³	PartWK_Cr
Crtot	total concentration Cr	g/m ³	PartWK_Cr
QCrSS	overall quality suspended solid for Cr	mgCr/kgDM	PartWK_Cr
KdCrSS	overall partition coefficient Cr in SS	m ³ /kgDM	PartWK_Cr
FrCuDis	fraction free dissolved Cu in water column	-	PartWK_Cu
FrCuDOC	fraction Cu adsorbed to DOC	-	PartWK_Cu
FrCuSulf	fraction Cu as sulfide precipitate or complex	-	PartWK_Cu
DisCu	free dissolved Cu in water column	gCu/m ³	PartWK_Cu
DOCCu	Cu adsorbed to DOC	gCu/m ³	PartWK_Cu
Cutot	total concentration Cu	g/m ³	PartWK_Cu
QCuSS	overall quality suspended solid for Cu	mgCu/kgDM	PartWK_Cu
KdCuSS	overall partition coefficient Cu in SS	m ³ /kgDM	PartWK_Cu
FrHgDis	fraction free dissolved Hg in water column	-	PartWK_Hg
FrHgDOC	fraction Hg adsorbed to DOC	-	PartWK_Hg
FrHgSulf	fraction Hg as sulfide precipitate or complex	-	PartWK_Hg
DisHg	free dissolved Hg in water column	gHg/m ³	PartWK_Hg
DOCHg	Hg adsorbed to DOC	gHg/m ³	PartWK_Hg
Hgtot	total concentration Hg	g/m ³	PartWK_Hg
QHgSS	overall quality suspended solid for Hg	mgHg/kgDM	PartWK_Hg
KdHgSS	overall partition coefficient Hg in SS	m ³ /kgDM	PartWK_Hg
FrNiDis	fraction free dissolved Ni in water column	-	PartWK_Ni
FrNiDOC	fraction Ni adsorbed to DOC	-	PartWK_Ni
FrNiSulf	fraction Ni as sulfide precipitate or complex	-	PartWK_Ni
DisNi	free dissolved Ni in water column	gNi/m ³	PartWK_Ni
DOCNi	Ni adsorbed to DOC	gNi/m ³	PartWK_Ni
Nitot	total concentration Ni	g/m ³	PartWK_Ni
QNiSS	overall quality suspended solid for Ni	mgNi/kgDM	PartWK_Ni
KdNiSS	overall partition coefficient Ni in SS	m ³ /kgDM	PartWK_Ni
FrPbDis	fraction free dissolved Pb in water column	-	PartWK_Pb
FrPbDOC	fraction Pb adsorbed to DOC	-	PartWK_Pb
FrPbSulf	fraction Pb as sulfide precipitate or complex	-	PartWK_Pb

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Table 14.1 – continued from previous page

Item	Description	Unit	Process
DisPb	free dissolved Pb in water column	gPb/m ³	PartWK_Pb
DOCPb	Pb adsorbed to DOC	gPb/m ³	PartWK_Pb
Pbtot	total concentration Pb	g/m ³	PartWK_Pb
QPbSS	overall quality suspended solid for Pb	mgPb/kgDM	PartWK_Pb
KdPbSS	overall partition coefficient Pb in SS	m ³ /kgDM	PartWK_Pb
FrAsDis	fraction free dissolved As in water column	-	PartWK_As
FrAsDOC	fraction As adsorbed to DOC	-	PartWK_As
FrAsSulf	fraction As as sulfide precipitate or complex	-	PartWK_As
DisAs	free dissolved As in water column	gAs/m ³	PartWK_As
DOCAs	As adsorbed to DOC	gAs/m ³	PartWK_As
Astot	total concentration As	g/m ³	PartWK_As
QAsSS	overall quality suspended solid for As	mgAs/kgDM	PartWK_As
KdAsSS	overall partition coefficient As in SS	m ³ /kgDM	PartWK_As
FrVaDis	fraction free dissolved Va in water column	-	PartWK_Va
FrVaDOC	fraction Va adsorbed to DOC	-	PartWK_Va
FrVaSulf	fraction Va as sulfide precipitate or complex	-	PartWK_Va
DisVa	free dissolved Va in water column	gVa/m ³	PartWK_Va
DOCVa	Va adsorbed to DOC	gVa/m ³	PartWK_Va
Vatot	total concentration Va	g/m ³	PartWK_Va
QVaSS	overall quality suspended solid for Va	mgVa/kgDM	PartWK_Va
KdVaSS	overall partition coefficient Va in SS	m ³ /kgDM	PartWK_Va
FrZnDis	fraction free dissolved Zn in water column	-	PartWK_Zn
FrZnDOC	fraction Zn adsorbed to DOC	-	PartWK_Zn
FrZnSulf	fraction Zn as sulfide precipitate or complex	-	PartWK_Zn
DisZn	free dissolved Zn in water column	gZn/m ³	PartWK_Zn
DO CZn	Zn adsorbed to DOC	gZn/m ³	PartWK_Zn
Zntot	total concentration Zn	g/m ³	PartWK_Zn
QZnSS	overall quality suspended solid for Zn	mgZn/kgDM	PartWK_Zn
KdZnSS	overall partition coefficient Zn in SS	m ³ /kgDM	PartWK_Zn
FrCdDisS1	fraction free dissolved Cd in layer S1	-	PartS1_Cd
FrCdDOCS1	fraction Cd adsorbed to DOC in layer S1	-	PartS1_Cd
FrCdIM1S1	fraction Cd adsorbed to IM1 in layer S1	-	PartS1_Cd
FrCdIM2S1	fraction Cd adsorbed to IM2 in layer S1	-	PartS1_Cd
FrCdIM3S1	fraction Cd adsorbed to IM3 in layer S1	-	PartS1_Cd
FrCdPOCS1	fraction Cd adsorbed to POC in layer S1	-	PartS1_Cd
FrCdPHYTS1	fraction Cd adsorbed to phytoplankton in layer S1	-	PartS1_Cd
FrCdSulfS1	fraction Cd as sulfide precip./complex in layer S1	-	PartS1_Cd
DisCdS1	free dissolved Cd in pore water layer S1	gCd/m ³ p	PartS1_Cd
DOCCdS1	Cd adsorbed to DOC in pore water layer S1	gCd/m ³ p	PartS1_Cd
QCdIM1S1	quality IM1 for Cd in layer S1	gCd/gDM	PartS1_Cd
QCdIM2S1	quality IM2 for Cd in layer S1	gCd/gDM	PartS1_Cd
QCdIM3S1	quality IM3 for Cd in layer S1	gCd/gDM	PartS1_Cd
QCdPOCS1	quality POC for Cd in layer S1	gCd/gC	PartS1_Cd
QCdPHYTS1	quality phytoplankton for Cd in layer S1	gCd/gC	PartS1_Cd
CdS1tot	total mass Cd in layer S1	g/m ²	PartS1_Cd
KdCdDMS1	overall partition coefficient Cd in layer S1	m ³ /kgDM	PartS1_Cd
FrCrDisS1	fraction free dissolved Cr in layer S1	-	PartS1_Cr
FrCrDOCS1	fraction Cr adsorbed to DOC in layer S1	-	PartS1_Cr
FrCrIM1S1	fraction Cr adsorbed to IM1 in layer S1	-	PartS1_Cr
FrCrIM2S1	fraction Cr adsorbed to IM2 in layer S1	-	PartS1_Cr
FrCrIM3S1	fraction Cr adsorbed to IM3 in layer S1	-	PartS1_Cr
FrCrPOCS1	fraction Cr adsorbed to POC in layer S1	-	PartS1_Cr
FrCrPHYTS1	fraction Cr adsorbed to phytoplankton in layer S1	-	PartS1_Cr
FrCrHydrS1	fraction Cr in layer S1 as hydroxide precip	-	PartS1_Cr
DisCrS1	free dissolved Cr in pore water layer S1	gCr/m ³ p	PartS1_Cr
DOCCrS1	Cr adsorbed to DOC in pore water layer S1	gCr/m ³ p	PartS1_Cr
QCrIM1S1	quality IM1 for Cr in layer S1	gCr/gDM	PartS1_Cr
QCrIM2S1	quality IM2 for Cr in layer S1	gCr/gDM	PartS1_Cr
QCrIM3S1	quality IM3 for Cr in layer S1	gCr/gDM	PartS1_Cr
QCrPOCS1	quality POC for Cr in layer S1	gCr/gC	PartS1_Cr
QCrPHYTS1	quality phytoplankton for Cr in layer S1	gCr/gC	PartS1_Cr
CrS1tot	total mass Cr in layer S1	g/m ²	PartS1_Cr
KdCrDMS1	overall partition coefficient Cr in layer S1	m ³ /kgDM	PartS1_Cr
FrCuDisS1	fraction free dissolved Cu in layer S1	-	PartS1_Cu
FrCuDOCS1	fraction Cu adsorbed to DOC in layer S1	-	PartS1_Cu
FrCuIM1S1	fraction Cu adsorbed to IM1 in layer S1	-	PartS1_Cu
FrCuIM2S1	fraction Cu adsorbed to IM2 in layer S1	-	PartS1_Cu
FrCuIM3S1	fraction Cu adsorbed to IM3 in layer S1	-	PartS1_Cu
FrCuPOCS1	fraction Cu adsorbed to POC in layer S1	-	PartS1_Cu
FrCuPHYTS1	fraction Cu adsorbed to phytoplankton in layer S1	-	PartS1_Cu

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Table 14.1 – continued from previous page

Item	Description	Unit	Process
FrCuSulfS1	fraction Cu as sulfide precip./complex in layer S1	-	PartS1_Cu
DisCuS1	free dissolved Cu in pore water layer S1	gCu/m ³ p	PartS1_Cu
DOCCuS1	Cu adsorbed to DOC in pore water layer S1	gCu/m ³ p	PartS1_Cu
QCuIM1S1	quality IM1 for Cu in layer S1	gCu/gDM	PartS1_Cu
QCuIM2S1	quality IM2 for Cu in layer S1	gCu/gDM	PartS1_Cu
QCuIM3S1	quality IM3 for Cu in layer S1	gCu/gDM	PartS1_Cu
QCuPOCS1	quality POC for Cu in layer S1	gCu/gC	PartS1_Cu
QCuPHYTS1	quality phytoplankton for Cu in layer S1	gCu/gC	PartS1_Cu
CuS1tot	total mass Cu in layer S1	g/m ²	PartS1_Cu
KdCuDMS1	overall partition coefficient Cu in layer S1	m ³ /kgDM	PartS1_Cu
FrHgDisS1	fraction free dissolved Hg in layer S1	-	PartS1_Hg
FrHgDOCS1	fraction Hg adsorbed to DOC in layer S1	-	PartS1_Hg
FrHgIM1S1	fraction Hg adsorbed to IM1 in layer S1	-	PartS1_Hg
FrHgIM2S1	fraction Hg adsorbed to IM2 in layer S1	-	PartS1_Hg
FrHgIM3S1	fraction Hg adsorbed to IM3 in layer S1	-	PartS1_Hg
FrHgPOCS1	fraction Hg adsorbed to POC in layer S1	-	PartS1_Hg
FrHgPHYTS1	fraction Hg adsorbed to phytoplankton in layer S1	-	PartS1_Hg
FrHgSulfS1	fraction Hg as sulfide precip./complex in layer S1	-	PartS1_Hg
DisHgS1	free dissolved Hg in pore water layer S1	gHg/m ³ p	PartS1_Hg
DOCHgS1	Hg adsorbed to DOC in pore water layer S1	gHg/m ³ p	PartS1_Hg
QHgIM1S1	quality IM1 for Hg in layer S1	gHg/gDM	PartS1_Hg
QHgIM2S1	quality IM2 for Hg in layer S1	gHg/gDM	PartS1_Hg
QHgIM3S1	quality IM3 for Hg in layer S1	gHg/gDM	PartS1_Hg
QHgPOCS1	quality POC for Hg in layer S1	gHg/gC	PartS1_Hg
QHgPHYTS1	quality phytoplankton for Hg in layer S1	gHg/gC	PartS1_Hg
HgS1tot	total mass Hg in layer S1	g/m ²	PartS1_Hg
KdHgDMS1	overall partition coefficient Hg in layer S1	m ³ /kgDM	PartS1_Hg
FrNiDisS1	fraction free dissolved Ni in layer S1	-	PartS1_Ni
FrNiDOCS1	fraction Ni adsorbed to DOC in layer S1	-	PartS1_Ni
FrNiIM1S1	fraction Ni adsorbed to IM1 in layer S1	-	PartS1_Ni
FrNiIM2S1	fraction Ni adsorbed to IM2 in layer S1	-	PartS1_Ni
FrNiIM3S1	fraction Ni adsorbed to IM3 in layer S1	-	PartS1_Ni
FrNiPOCS1	fraction Ni adsorbed to POC in layer S1	-	PartS1_Ni
FrNiPHYTS1	fraction Ni adsorbed to phytoplankton in layer S1	-	PartS1_Ni
FrNiSulfS1	fraction Ni as sulfide precip./complex in layer S1	-	PartS1_Ni
DisNiS1	free dissolved Ni in pore water layer S1	gNi/m ³ p	PartS1_Ni
DOCNiS1	Ni adsorbed to DOC in pore water layer S1	gNi/m ³ p	PartS1_Ni
QNiIM1S1	quality IM1 for Ni in layer S1	gNi/gDM	PartS1_Ni
QNiIM2S1	quality IM2 for Ni in layer S1	gNi/gDM	PartS1_Ni
QNiIM3S1	quality IM3 for Ni in layer S1	gNi/gDM	PartS1_Ni
QNiPOCS1	quality POC for Ni in layer S1	gNi/gC	PartS1_Ni
QNiPHYTS1	quality phytoplankton for Ni in layer S1	gNi/gC	PartS1_Ni
NiS1tot	total mass Ni in layer S1	g/m ²	PartS1_Ni
KdNiDMS1	overall partition coefficient Ni in layer S1	m ³ /kgDM	PartS1_Ni
FrPbDisS1	fraction free dissolved Pb in layer S1	-	PartS1_Pb
FrPbDOCS1	fraction Pb adsorbed to DOC in layer S1	-	PartS1_Pb
FrPbIM1S1	fraction Pb adsorbed to IM1 in layer S1	-	PartS1_Pb
FrPbIM2S1	fraction Pb adsorbed to IM2 in layer S1	-	PartS1_Pb
FrPbIM3S1	fraction Pb adsorbed to IM3 in layer S1	-	PartS1_Pb
FrPbPOCS1	fraction Pb adsorbed to POC in layer S1	-	PartS1_Pb
FrPbPHYTS1	fraction Pb adsorbed to phytoplankton in layer S1	-	PartS1_Pb
FrPbSulfS1	fraction Pb as sulfide precip./complex in layer S1	-	PartS1_Pb
DisPbS1	free dissolved Pb in pore water layer S1	gPb/m ³ p	PartS1_Pb
DOCPbS1	Pb adsorbed to DOC in pore water layer S1	gPb/m ³ p	PartS1_Pb
QPbIM1S1	quality IM1 for Pb in layer S1	gPb/gDM	PartS1_Pb
QPbIM2S1	quality IM2 for Pb in layer S1	gPb/gDM	PartS1_Pb
QPbIM3S1	quality IM3 for Pb in layer S1	gPb/gDM	PartS1_Pb
QPbPOCS1	quality POC for Pb in layer S1	gPb/gC	PartS1_Pb
QPbPHYTS1	quality phytoplankton for Pb in layer S1	gPb/gC	PartS1_Pb
PbS1tot	total mass Pb in layer S1	g/m ²	PartS1_Pb
KdPbDMS1	overall partition coefficient Pb in layer S1	m ³ /kgDM	PartS1_Pb
FrAsDisS1	fraction free dissolved As in layer S1	-	PartS1_As
FrAsDOCS1	fraction As adsorbed to DOC in layer S1	-	PartS1_As
FrAsIM1S1	fraction As adsorbed to IM1 in layer S1	-	PartS1_As
FrAsIM2S1	fraction As adsorbed to IM2 in layer S1	-	PartS1_As
FrAsIM3S1	fraction As adsorbed to IM3 in layer S1	-	PartS1_As
FrAsPOCS1	fraction As adsorbed to POC in layer S1	-	PartS1_As
FrAsPHYTS1	fraction As adsorbed to phytoplankton in layer	-	PartS1_As
FrAsSulfS1	fraction As as sulfide precip./complex in layer	-	PartS1_As
DisAsS1	free dissolved As in pore water layer S1	gAs/m ³ p	PartS1_As

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Table 14.1 – continued from previous page

Item	Description	Unit	Process
DOCA _{S1}	As adsorbed to DOC in pore water layer S1	gAs/m ³ p	PartS1_As
QAsIM1S1	quality IM1 for As in layer S1	gAs/gDM	PartS1_As
QAsIM2S1	quality IM2 for As in layer S1	gAs/gDM	PartS1_As
QAsIM3S1	quality IM3 for As in layer S1	gAs/gDM	PartS1_As
QAsPOCS1	quality POC for As in layer S1	gAs/gC	PartS1_As
QAsPHYTS1	quality phytoplankton for As in layer S1	gAs/gC	PartS1_As
AsS1tot	total mass As in layer S1	g/m ²	PartS1_As
KdAsDMS1	overall partition coefficient As in layer	m ³ /kgDM	PartS1_As
FrVaDisS1	fraction free dissolved Va in layer S1	-	PartS1_Va
FrVaDOCS1	fraction Va adsorbed to DOC in layer S1	-	PartS1_Va
FrVaIM1S1	fraction Va adsorbed to IM1 in layer S1	-	PartS1_Va
FrVaIM2S1	fraction Va adsorbed to IM2 in layer S1	-	PartS1_Va
FrVaIM3S1	fraction Va adsorbed to IM3 in layer S1	-	PartS1_Va
FrVaPOCS1	fraction Va adsorbed to POC in layer S1	-	PartS1_Va
FrVaPHYTS1	fraction Va adsorbed to phytoplankton in layer S1	-	PartS1_Va
FrVaSulfS1	fraction Va as sulfide precip./complex in layer S1	-	PartS1_Va
DisVaS1	free dissolved Va in pore water layer S1	gVa/m ³ p	PartS1_Va
DOCVaS1	Va adsorbed to DOC in pore water layer S1	gVa/m ³ p	PartS1_Va
QValM1S1	quality IM1 for Va in layer S1	gVa/gDM	PartS1_Va
QValM2S1	quality IM2 for Va in layer S1	gVa/gDM	PartS1_Va
QValM3S1	quality IM3 for Va in layer S1	gVa/gDM	PartS1_Va
QVaPOCS1	quality POC for Va in layer S1	gVa/gC	PartS1_Va
QVaPHYTS1	quality phytoplankton for Va in layer S1	gVa/gC	PartS1_Va
VaS1tot	total mass Va in layer S1	g/m ²	PartS1_Va
KdVaDMS1	overall partition coefficient Va in layer S1	m ³ /kgDM	PartS1_Va
FrZnDisS1	fraction free dissolved Zn in layer S1	-	PartS1_Zn
FrZnDOCS1	fraction Zn adsorbed to DOC in layer S1	-	PartS1_Zn
FrZnIM1S1	fraction Zn adsorbed to IM1 in layer S1	-	PartS1_Zn
FrZnIM2S1	fraction Zn adsorbed to IM2 in layer S1	-	PartS1_Zn
FrZnIM3S1	fraction Zn adsorbed to IM3 in layer S1	-	PartS1_Zn
FrZnPOCS1	fraction Zn adsorbed to POC in layer S1	-	PartS1_Zn
FrZnPHYTS1	fraction Zn adsorbed to phytoplankton in layer S1	-	PartS1_Zn
FrZnSulfS1	fraction Zn as sulfide precip./complex in layer S1	-	PartS1_Zn
DisZnS1	free dissolved Zn in pore water layer S1	gZn/m ³ p	PartS1_Zn
DOCVaS1	Zn adsorbed to DOC in pore water layer S1	gZn/m ³ p	PartS1_Zn
QZnIM1S1	quality IM1 for Zn in layer S1	gZn/gDM	PartS1_Zn
QZnIM2S1	quality IM2 for Zn in layer S1	gZn/gDM	PartS1_Zn
QZnIM3S1	quality IM3 for Zn in layer S1	gZn/gDM	PartS1_Zn
QZnPOCS1	quality POC for Zn in layer S1	gZn/gC	PartS1_Zn
QZnPHYTS1	quality phytoplankton for Zn in layer S1	gZn/gC	PartS1_Zn
ZnS1tot	total mass Zn in layer S1	g/m ²	PartS1_Zn
KdZnDMS1	overall partition coefficient Zn in layer S1	m ³ /kgDM	PartS1_Zn
FrCdDisS2	fraction free dissolved Cd in layer S2	-	PartS2_Cd
FrCdDOCS2	fraction Cd adsorbed to DOC in layer S2	-	PartS2_Cd
FrCdIM1S2	fraction Cd adsorbed to IM1 in layer S2	-	PartS2_Cd
FrCdIM2S2	fraction Cd adsorbed to IM2 in layer S2	-	PartS2_Cd
FrCdIM3S2	fraction Cd adsorbed to IM3 in layer S2	-	PartS2_Cd
FrCdPOCS2	fraction Cd adsorbed to POC in layer S2	-	PartS2_Cd
FrCdPHYTS2	fraction Cd adsorbed to phytoplankton in layer S2	-	PartS2_Cd
FrCdSulfS2	fraction Cd as sulfide precip./complex in layer S2	-	PartS2_Cd
DisCdS2	free dissolved Cd in pore water layer S2	gCd/m ³ p	PartS2_Cd
DOCCdS2	Cd adsorbed to DOC in pore water layer S2	gCd/m ³ p	PartS2_Cd
QCdIM1S2	quality IM1 for Cd in layer S2	gCd/gDM	PartS2_Cd
QCdIM2S2	quality IM2 for Cd in layer S2	gCd/gDM	PartS2_Cd
QCdIM3S2	quality IM3 for Cd in layer S2	gCd/gDM	PartS2_Cd
QCdPOCS2	quality POC for Cd in layer S2	gCd/gC	PartS2_Cd
QCdPHYTS2	quality phytoplankton for Cd in layer S2	gCd/gC	PartS2_Cd
CdS2tot	total mass Cd in layer S2	g/m ²	PartS2_Cd
KdCdDMS2	overall partition coefficient Cd in layer S2	m ³ /kgDM	PartS2_Cd
FrCrDisS2	fraction free dissolved Cr in layer S2	-	PartS2_Cr
FrCrDOCS2	fraction Cr adsorbed to DOC in layer S2	-	PartS2_Cr
FrCrIM1S2	fraction Cr adsorbed to IM1 in layer S2	-	PartS2_Cr
FrCrIM2S2	fraction Cr adsorbed to IM2 in layer S2	-	PartS2_Cr
FrCrIM3S2	fraction Cr adsorbed to IM3 in layer S2	-	PartS2_Cr
FrCrPOCS2	fraction Cr adsorbed to POC in layer S2	-	PartS2_Cr
FrCrPHYTS2	fraction Cr adsorbed to phytoplankton in layer S2	-	PartS2_Cr
FrCrHydrS2	fraction Cr in layer S2 as hydroxide precip	-	PartS2_Cr
DisCrS2	free dissolved Cr in pore water layer S2	gCr/m ³ p	PartS2_Cr
DOCCrS2	Cr adsorbed to DOC in pore water layer S2	gCr/m ³ p	PartS2_Cr
QCrIM1S2	quality IM1 for Cr in layer S2	gCr/gDM	PartS2_Cr

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Table 14.1 – continued from previous page

Item	Description	Unit	Process
QCrIM2S2	quality IM2 for Cr in layer S2	gCr/gDM	PartS2_Cr
QCrIM3S2	quality IM3 for Cr in layer S2	gCr/gDM	PartS2_Cr
QCrPOCS2	quality POC for Cr in layer S2	gCr/gC	PartS2_Cr
QCrPHYTS2	quality phytoplankton for Cr in layer S2	gCr/gC	PartS2_Cr
CrS2tot	total mass Cr in layer S2	g/m ²	PartS2_Cr
KdCrDMS2	overall partition coefficient Cr in layer S2	m ³ /kgDM	PartS2_Cr
FrCuDisS2	fraction free dissolved Cu in layer S2	-	PartS2_Cu
FrCuDOCS2	fraction Cu adsorbed to DOC in layer S2	-	PartS2_Cu
FrCuIM1S2	fraction Cu adsorbed to IM1 in layer S2	-	PartS2_Cu
FrCuIM2S2	fraction Cu adsorbed to IM2 in layer S2	-	PartS2_Cu
FrCuIM3S2	fraction Cu adsorbed to IM3 in layer S2	-	PartS2_Cu
FrCuPOCS2	fraction Cu adsorbed to POC in layer S2	-	PartS2_Cu
FrCuPHYTS2	fraction Cu adsorbed to phytoplankton in layer S2	-	PartS2_Cu
FrCuSulfS2	fraction Cu as sulfide precip./complex in layer S2	-	PartS2_Cu
DisCuS2	free dissolved Cu in pore water layer S2	gCu/m ³ p	PartS2_Cu
DOCCuS2	Cu adsorbed to DOC in pore water layer S2	gCu/m ³ p	PartS2_Cu
QCuIM1S2	quality IM1 for Cu in layer S2	gCu/gDM	PartS2_Cu
QCuIM2S2	quality IM2 for Cu in layer S2	gCu/gDM	PartS2_Cu
QCuIM3S2	quality IM3 for Cu in layer S2	gCu/gDM	PartS2_Cu
QCuPOCS2	quality POC for Cu in layer S2	gCu/gC	PartS2_Cu
QCuPHYTS2	quality phytoplankton for Cu in layer S2	gCu/gC	PartS2_Cu
CuS2tot	total mass Cu in layer S2	g/m ²	PartS2_Cu
KdCuDMS2	overall partition coefficient Cu in layer S2	m ³ /kgDM	PartS2_Cu
FrHgDisS2	fraction free dissolved Hg in layer S2	-	PartS2_Hg
FrHgDOCS2	fraction Hg adsorbed to DOC in layer S2	-	PartS2_Hg
FrHgIM1S2	fraction Hg adsorbed to IM1 in layer S2	-	PartS2_Hg
FrHgIM2S2	fraction Hg adsorbed to IM2 in layer S2	-	PartS2_Hg
FrHgIM3S2	fraction Hg adsorbed to IM3 in layer S2	-	PartS2_Hg
FrHgPOCS2	fraction Hg adsorbed to POC in layer S2	-	PartS2_Hg
FrHgPHYTS2	fraction Hg adsorbed to phytoplankton in layer S2	-	PartS2_Hg
FrHgSulfS2	fraction Hg as sulfide precip./complex in layer S2	-	PartS2_Hg
DisHgS2	free dissolved Hg in pore water layer S2	gHg/m ³ p	PartS2_Hg
DOCHgS2	Hg adsorbed to DOC in pore water layer S2	gHg/m ³ p	PartS2_Hg
QHgIM1S2	quality IM1 for Hg in layer S2	gHg/gDM	PartS2_Hg
QHgIM2S2	quality IM2 for Hg in layer S2	gHg/gDM	PartS2_Hg
QHgIM3S2	quality IM3 for Hg in layer S2	gHg/gDM	PartS2_Hg
QHgPOCS2	quality POC for Hg in layer S2	gHg/gC	PartS2_Hg
QHgPHYTS2	quality phytoplankton for Hg in layer S2	gHg/gC	PartS2_Hg
HgS2tot	total mass Hg in layer S2	g/m ²	PartS2_Hg
KdHgDMS2	overall partition coefficient Hg in layer S2	m ³ /kgDM	PartS2_Hg
FrNiDisS2	fraction free dissolved Ni in layer S2	-	PartS2_Ni
FrNiDOCS2	fraction Ni adsorbed to DOC in layer S2	-	PartS2_Ni
FrNiIM1S2	fraction Ni adsorbed to IM1 in layer S2	-	PartS2_Ni
FrNiIM2S2	fraction Ni adsorbed to IM2 in layer S2	-	PartS2_Ni
FrNiIM3S2	fraction Ni adsorbed to IM3 in layer S2	-	PartS2_Ni
FrNiPOCS2	fraction Ni adsorbed to POC in layer S2	-	PartS2_Ni
FrNiPHYTS2	fraction Ni adsorbed to phytoplankton in layer S2	-	PartS2_Ni
FrNiSulfS2	fraction Ni as sulfide precip./complex in layer S2	-	PartS2_Ni
DisNiS2	free dissolved Ni in pore water layer S2	gNi/m ³ p	PartS2_Ni
DOCNiS2	Ni adsorbed to DOC in pore water layer S2	gNi/m ³ p	PartS2_Ni
QNiIM1S2	quality IM1 for Ni in layer S2	gNi/gDM	PartS2_Ni
QNiIM2S2	quality IM2 for Ni in layer S2	gNi/gDM	PartS2_Ni
QNiIM3S2	quality IM3 for Ni in layer S2	gNi/gDM	PartS2_Ni
QNiPOCS2	quality POC for Ni in layer S2	gNi/gC	PartS2_Ni
QNiPHYTS2	quality phytoplankton for Ni in layer S2	gNi/gC	PartS2_Ni
NiS2tot	total mass Ni in layer S2	g/m ²	PartS2_Ni
KdNiDMS2	overall partition coefficient Ni in layer S2	m ³ /kgDM	PartS2_Ni
FrPbDisS2	fraction free dissolved Pb in layer S2	-	PartS2_Pb
FrPbDOCS2	fraction Pb adsorbed to DOC in layer S2	-	PartS2_Pb
FrPbIM1S2	fraction Pb adsorbed to IM1 in layer S2	-	PartS2_Pb
FrPbIM2S2	fraction Pb adsorbed to IM2 in layer S2	-	PartS2_Pb
FrPbIM3S2	fraction Pb adsorbed to IM3 in layer S2	-	PartS2_Pb
FrPbPOCS2	fraction Pb adsorbed to POC in layer S2	-	PartS2_Pb
FrPbPHYTS2	fraction Pb adsorbed to phytoplankton in layer S2	-	PartS2_Pb
FrPbSulfS2	fraction Pb as sulfide precip./complex in layer S2	-	PartS2_Pb
DisPbS2	free dissolved Pb in pore water layer S2	gPb/m ³ p	PartS2_Pb
DOCPbS2	Pb adsorbed to DOC in pore water layer S2	gPb/m ³ p	PartS2_Pb
QPbIM1S2	quality IM1 for Pb in layer S2	gPb/gDM	PartS2_Pb
QPbIM2S2	quality IM2 for Pb in layer S2	gPb/gDM	PartS2_Pb
QPbIM3S2	quality IM3 for Pb in layer S2	gPb/gDM	PartS2_Pb

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Table 14.1 – continued from previous page

Item	Description	Unit	Process
QPbPOCS2	quality POC for Pb in layer S2	gPb/gC	PartS2_Pb
QPbPHYTS2	quality phytoplankton for Pb in layer S2	gPb/gC	PartS2_Pb
PbS2tot	total mass Pb in layer S2	g/m ²	PartS2_Pb
KdPbDMS2	overall partition coefficient Pb in layer S2	m ³ /kgDM	PartS2_Pb
FrAsDisS2	fraction free dissolved As in layer S2	-	PartS2_As
FrAsDOCS2	fraction As adsorbed to DOC in layer S2	-	PartS2_As
FrAsIM1S2	fraction As adsorbed to IM1 in layer S2	-	PartS2_As
FrAsIM2S2	fraction As adsorbed to IM2 in layer S2	-	PartS2_As
FrAsIM3S2	fraction As adsorbed to IM3 in layer S2	-	PartS2_As
FrAsPOCS2	fraction As adsorbed to POC in layer S2	-	PartS2_As
FrAsPHYTS2	fraction As adsorbed to phytoplankton in layer S2	-	PartS2_As
FrAsSulfS2	fraction As as sulfide precip./complex in layer S2	-	PartS2_As
DisAsS2	free dissolved As in pore water layer S2	gAs/m ³ p	PartS2_As
DOCAAsS2	As adsorbed to DOC in pore water layer S2	gAs/m ³ p	PartS2_As
QAsIM1S2	quality IM1 for As in layer S2	gAs/gDM	PartS2_As
QAsIM2S2	quality IM2 for As in layer S2	gAs/gDM	PartS2_As
QAsIM3S2	quality IM3 for As in layer S2	gAs/gDM	PartS2_As
QAsPOCS2	quality POC for As in layer S2	gAs/gC	PartS2_As
QAsPHYTS2	quality phytoplankton for As in layer S2	gAs/gC	PartS2_As
AsS2tot	total mass As in layer S2	g/m ²	PartS2_As
KdAsDMS2	overall partition coefficient As in layer S2	m ³ /kgDM	PartS2_As
FrVaDisS2	fraction free dissolved Va in layer S2	-	PartS2_Va
FrVaDOCS2	fraction Va adsorbed to DOC in layer S2	-	PartS2_Va
FrVaIM1S2	fraction Va adsorbed to IM1 in layer S2	-	PartS2_Va
FrVaIM2S2	fraction Va adsorbed to IM2 in layer S2	-	PartS2_Va
FrVaIM3S2	fraction Va adsorbed to IM3 in layer S2	-	PartS2_Va
FrVaPOCS2	fraction Va adsorbed to POC in layer S2	-	PartS2_Va
FrVaPHYTS2	fraction Va adsorbed to phytoplankton in layer S2	-	PartS2_Va
FrVaSulfS2	fraction Va as sulfide precip./complex in layer S2	-	PartS2_Va
DisVaS2	free dissolved Va in pore water layer S2	gVa/m ³ p	PartS2_Va
DOCVaS2	Va adsorbed to DOC in pore water layer S2	gVa/m ³ p	PartS2_Va
QValIM1S2	quality IM1 for Va in layer S2	gVa/gDM	PartS2_Va
QValIM2S2	quality IM2 for Va in layer S2	gVa/gDM	PartS2_Va
QValIM3S2	quality IM3 for Va in layer S2	gVa/gDM	PartS2_Va
QVaPOCS2	quality POC for Va in layer S2	gVa/gC	PartS2_Va
QVaPHYTS2	quality phytoplankton for Va in layer S2	gVa/gC	PartS2_Va
VaS2tot	total mass Va in layer S2	g/m ²	PartS2_Va
KdVaDMS2	overall partition coefficient Va in layer S2	m ³ /kgDM	PartS2_Va
FrZnDisS2	fraction free dissolved Zn in layer S2	-	PartS2_Zn
FrZnDOCS2	fraction Zn adsorbed to DOC in layer S2	-	PartS2_Zn
FrZnIM1S2	fraction Zn adsorbed to IM1 in layer S2	-	PartS2_Zn
FrZnIM2S2	fraction Zn adsorbed to IM2 in layer S2	-	PartS2_Zn
FrZnIM3S2	fraction Zn adsorbed to IM3 in layer S2	-	PartS2_Zn
FrZnPOCS2	fraction Zn adsorbed to POC in layer S2	-	PartS2_Zn
FrZnPHYTS2	fraction Zn adsorbed to phytoplankton in layer S2	-	PartS2_Zn
FrZnSulfS2	fraction Zn as sulfide precip./complex in layer S2	-	PartS2_Zn
DisZnS2	free dissolved Zn in pore water layer S2	gZn/m ³ p	PartS2_Zn
DOCVaS2	Zn adsorbed to DOC in pore water layer S2	gZn/m ³ p	PartS2_Zn
QZnIM1S2	quality IM1 for Zn in layer S2	gZn/gDM	PartS2_Zn
QZnIM2S2	quality IM2 for Zn in layer S2	gZn/gDM	PartS2_Zn
QZnIM3S2	quality IM3 for Zn in layer S2	gZn/gDM	PartS2_Zn
QZnPOCS2	quality POC for Zn in layer S2	gZn/gC	PartS2_Zn
QZnPHYTS2	quality phytoplankton for Zn in layer S2	gZn/gC	PartS2_Zn
ZnS2tot	total mass Zn in layer S2	g/m ²	PartS2_Zn
KdZnDMS2	overall partition coefficient Zn in layer S2	m ³ /kgDM	PartS2_Zn
FrDumIM1	dummy fraction adsorbed to IM1	-	PartS1_153
FrDumIM2	dummy fraction adsorbed to IM2	-	PartS1_153
FrDumIM3	dummy fraction adsorbed to IM3	-	PartS1_153
Fr153POCS1	fraction 153 adsorbed to POC in layer S1	-	PartS1_153
Fr153PHYTS1	fraction 153 adsorbed to phytoplankton in layer S1	-	PartS1_153
FrDumSulf	dummy fraction as sulfide complex	-	PartS1_153
Dis153S1	free dissolved 153 in pore water layer S1	g153/m ³ p	PartS1_153
DOC153S1	153 adsorbed to DOC in pore water layer S1	g153/m ³ p	PartS1_153
QDumIM1	dummy quality IM1	g/gDM	PartS1_153
QDumIM2	dummy quality IM2	g/gDM	PartS1_153
QDumIM3	dummy quality IM3	g/gDM	PartS1_153
Q153POCS1	quality POC for 153 in layer S1	g153/gC	PartS1_153
Q153PHYTS1	quality phytoplankton for 153 in layer S1	g153/gC	PartS1_153
153S1tot	total mass 153 in layer S1	g/m ²	PartS1_153
Kd153DMS1	overall partition coefficient 153 in layer S1	m ³ /kgDM	PartS1_153

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Table 14.1 – continued from previous page

Item	Description	Unit	Process
FrAtrPOCS1	fraction Atr adsorbed to POC in layer S1	-	PartS1_Atr
FrAtrPHYS1	fraction Atr adsorbed to phytoplankton in layer S1	-	PartS1_Atr
DisAtrS1	free dissolved Atrazine in pore water layer S1	gAtr/m ³ p	PartS1_Atr
DOCAtrS1	Atrazine adsorbed to DOC in pore water layer S1	gAtr/m ³ p	PartS1_Atr
QAtrPOCS1	quality POC for Atrazine in layer S1	gAtr/gC	PartS1_Atr
QAtrPHYTS1	quality phytoplankton for Atrazine in layer S1	gAtr/gC	PartS1_Atr
AtrS1tot	total mass Atrazine in layer S1	g/m ²	PartS1_Atr
KdAtrDMS1	overall partition coefficient Atrazine in layer S1	m ³ /kgDM	PartS1_Atr
FrBaPPOCS1	fraction BaP adsorbed to POC in layer S1	-	PartS1_BaP
FrBaPPHYS1	fraction BaP adsorbed to phytoplankton in layer S1	-	PartS1_BaP
DisBaPS1	free dissolved BaP in pore water layer S1	gBaP/m ³ p	PartS1_BaP
DOCBaPS1	BaP adsorbed to DOC in pore water layer S1	gBaP/m ³ p	PartS1_BaP
QBaPPOCS1	quality POC for BaP in layer S1	gBaP/gC	PartS1_BaP
QBaPPHYTS1	quality phytoplankton for BaP in layer S1	gBaP/gC	PartS1_BaP
BaPS1tot	total mass BaP in layer S1	g/m ²	PartS1_BaP
KdBaPDMS1	overall partition coefficient BaP in layer S1	m ³ /kgDM	PartS1_BaP
FrDiuPOCS1	fraction Diu adsorbed to POC in layer S1	-	PartS1_Diu
FrDiuPHYS1	fraction Diu adsorbed to phytoplankton in layer S1	-	PartS1_Diu
DisDiuS1	free dissolved Diu in pore water layer S1	gDiu/m ³ p	PartS1_Diu
DOCDiuS1	Diu adsorbed to DOC in pore water layer S1	gDiu/m ³ p	PartS1_Diu
QDiuPOCS1	quality POC for Diu in layer S1	gDiu/gC	PartS1_Diu
QDiuPHYTS1	quality phytoplankton for Diu in layer S1	gDiu/gC	PartS1_Diu
DiuS1tot	total mass Diu in layer S1	g/m ²	PartS1_Diu
KdDiuDMS1	overall partition coefficient Diu in layer S1	m ³ /kgDM	PartS1_Diu
FrFluPOCS1	fraction Flu adsorbed to POC in layer S1	-	PartS1_Flu
FrFluPHYS1	fraction Flu adsorbed to phytoplankton in layer S1	-	PartS1_Flu
DisFluS1	free dissolved Flu in pore water layer S1	gFlu/m ³ p	PartS1_Flu
DOCFluS1	Flu adsorbed to DOC in pore water layer S1	gFlu/m ³ p	PartS1_Flu
QFluPOCS1	quality POC for Flu in layer S1	gFlu/gC	PartS1_Flu
QFluPHYTS1	quality phytoplankton for Flu in layer S1	gFlu/gC	PartS1_Flu
FluS1tot	total mass Flu in layer S1	g/m ²	PartS1_Flu
KdFluDMS1	overall partition coefficient Flu in layer S1	m ³ /kgDM	PartS1_Flu
FrHCBPOCS1	fraction HCB adsorbed to POC in layer S1	-	PartS1_HCB
FrHCBPHYS1	fraction HCB adsorbed to phytoplankton in layer S1	-	PartS1_HCB
DisHCBS1	free dissolved HCB in pore water layer S1	gHCB/m ³ p	PartS1_HCB
DOCHCBS1	HCB adsorbed to DOC in pore water layer S1	gHCB/m ³ p	PartS1_HCB
QHCBPOCS1	quality POC for HCB in layer S1	gHCB/gC	PartS1_HCB
QHCBPHYTS1	quality phytoplankton for HCB in layer S1	gHCB/gC	PartS1_HCB
HCBS1tot	total mass HCB in layer S1	g/m ²	PartS1_HCB
KdHCBdMS1	overall partition coefficient HCB in layer S1	m ³ /kgDM	PartS1_HCB
FrHCHPOCS1	fraction HCH adsorbed to POC in layer S1	-	PartS1_HCH
FrHCHPHYS1	fraction HCH adsorbed to phytoplankton in layer S1	-	PartS1_HCH
DisHCHS1	free dissolved HCH in pore water layer S1	gHCH/m ³ p	PartS1_HCH
DOCHCHS1	HCH adsorbed to DOC in pore water layer S1	gHCH/m ³ p	PartS1_HCH
QHCHPOCS1	quality POC for HCH in layer S1	gHCH/gC	PartS1_HCH
QHCHPHYTS1	quality phytoplankton for HCH in layer S1	gHCH/gC	PartS1_HCH
HCHS1tot	total mass HCH in layer S1	g/m ²	PartS1_HCH
KdHCHdMS1	overall partition coefficient HCH in layer S1	m ³ /kgDM	PartS1_HCH
FrMefPOCS1	fraction Mef adsorbed to POC in layer S1	-	PartS1_Mef
FrMefPHYS1	fraction Mef adsorbed to phytoplankton in layer S1	-	PartS1_Mef
DisMefS1	free dissolved Mef in pore water layer S1	gMef/m ³ p	PartS1_Mef
DOCMefS1	Mef adsorbed to DOC in pore water layer S1	gMef/m ³ p	PartS1_Mef
QMefPOCS1	quality POC for Mef in layer S1	gMef/gC	PartS1_Mef
QMefPHYTS1	quality phytoplankton for Mef in layer S1	gMef/gC	PartS1_Mef
MefS1tot	total mass Mef in layer S1	g/m ²	PartS1_Mef
KdMefDMS1	overall partition coefficient Mef in layer S1	m ³ /kgDM	PartS1_Mef
Fr153POCS2	fraction 153 adsorbed to POC in layer S2	-	PartS2_153
Fr153PHYS2	fraction 153 adsorbed to phytoplankton in layer S2	-	PartS2_153
Dis153S2	free dissolved 153 in pore water layer S2	g153/m ³ p	PartS2_153
DOC153S2	153 adsorbed to DOC in pore water layer S2	g153/m ³ p	PartS2_153
Q153POCS2	quality POC for 153 in layer S2	g153/gC	PartS2_153
Q153PHYTS2	quality phytoplankton for 153 in layer S2	g153/gC	PartS2_153
153S2tot	total mass 153 in layer S2	g/m ²	PartS2_153
Kd153DMS2	overall partition coefficient 153 in layer S2	m ³ /kgDM	PartS2_153
FrAtrPOCS2	fraction Atr adsorbed to POC in layer S2	-	PartS2_Atr
FrAtrPHYS2	fraction Atr adsorbed to phytoplankton in layer S2	-	PartS2_Atr
DisAtrS2	free dissolved Atrazine in pore water layer S2	gAtr/m ³ p	PartS2_Atr
DOCAtrS2	Atrazine adsorbed to DOC in pore water layer S2	gAtr/m ³ p	PartS2_Atr
QAtrPOCS2	quality POC for Atrazine in layer S2	gAtr/gC	PartS2_Atr

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Table 14.1 – continued from previous page

Item	Description	Unit	Process
QAtrPHYTS2	quality phytoplankton for Atrazine in layer S2	gAtr/gC	PartS2_Atr
AtrS2tot	total mass Atrazine in layer S2	g/m ²	PartS2_Atr
KdAtrDMS2	overall partition coefficient Atrazine in layer S2	m ³ /kgDM	PartS2_Atr
FrBaPPOCS2	fraction BaP adsorbed to POC in layer S2	-	PartS2_BaP
FrBaPPHYS2	fraction BaP adsorbed to phytoplankton in layer S2	-	PartS2_BaP
DisBaPS2	free dissolved BaP in pore water layer S2	gBaP/m ³ p	PartS2_BaP
DOCBaPS2	BaP adsorbed to DOC in pore water layer S2	gBaP/m ³ p	PartS2_BaP
QBaPPOCS2	quality POC for BaP in layer S2	gBaP/gC	PartS2_BaP
QBaPPHYS2	quality phytoplankton for BaP in layer S2	gBaP/gC	PartS2_BaP
BaPS2tot	total mass BaP in layer S2	g/m ²	PartS2_BaP
KdBaPDMS2	overall partition coefficient BaP in layer S2	m ³ /kgDM	PartS2_BaP
FrDiuPOCS2	fraction Diu adsorbed to POC in layer S2	-	PartS2_Diu
FrDiuPHYS2	fraction Diu adsorbed to phytoplankton in layer S2	-	PartS2_Diu
DisDiuS2	free dissolved Diu in pore water layer S2	gDiu/m ³ p	PartS2_Diu
DOCDiuS2	Diu adsorbed to DOC in pore water layer S2	gDiu/m ³ p	PartS2_Diu
QDiuPOCS2	quality POC for Diu in layer S2	gDiu/gC	PartS2_Diu
QDiuPHYTS2	quality phytoplankton for Diu in layer S2	gDiu/gC	PartS2_Diu
DiuS2tot	total mass Diu in layer S2	g/m ²	PartS2_Diu
KdDiuDMS2	overall partition coefficient Diu in layer S2	m ³ /kgDM	PartS2_Diu
FrFluPOCS2	fraction Flu adsorbed to POC in layer S2	-	PartS2_Flu
FrFluPHYS2	fraction Flu adsorbed to phytoplankton in layer S2	-	PartS2_Flu
DisFluS2	free dissolved Flu in pore water layer S2	gFlu/m ³ p	PartS2_Flu
DOCFluS2	Flu adsorbed to DOC in pore water layer S2	gFlu/m ³ p	PartS2_Flu
QFluPOCS2	quality POC for Flu in layer S2	gFlu/gC	PartS2_Flu
QFluPHYTS2	quality phytoplankton for Flu in layer S2	gFlu/gC	PartS2_Flu
FluS2tot	total mass Flu in layer S2	g/m ²	PartS2_Flu
KdFluDMS2	overall partition coefficient Flu in layer S2	m ³ /kgDM	PartS2_Flu
FrHCBPOCS2	fraction HCB adsorbed to POC in layer S2	-	PartS2_HCB
FrHCBPHYS2	fraction HCB adsorbed to phytoplankton in layer S2	-	PartS2_HCB
DisHCBS2	free dissolved HCB in pore water layer S2	gHCB/m ³ p	PartS2_HCB
DOCHCBS2	HCB adsorbed to DOC in pore water layer S2	gHCB/m ³ p	PartS2_HCB
QHCBPOCS2	quality POC for HCB in layer S2	gHCB/gC	PartS2_HCB
QHCBPHYTS2	quality phytoplankton for HCB in layer S2	gHCB/gC	PartS2_HCB
HCBS2tot	total mass HCB in layer S2	g/m ²	PartS2_HCB
KdHCBDMS2	overall partition coefficient HCB in layer S2	m ³ /kgDM	PartS2_HCB
FrHCHPOCS2	fraction HCH adsorbed to POC in layer S2	-	PartS2_HCH
FrHCHPHYS2	fraction HCH adsorbed to phytoplankton in layer S2	-	PartS2_HCH
DisHCHS2	free dissolved HCH in pore water layer S2	gHCH/m ³ p	PartS2_HCH
DOCHCHS2	HCH adsorbed to DOC in pore water layer S2	gHCH/m ³ p	PartS2_HCH
QHCHPOCS2	quality POC for HCH in layer S2	gHCH/gC	PartS2_HCH
QHCHPHYTS2	quality phytoplankton for HCH in layer S2	gHCH/gC	PartS2_HCH
HCHS2tot	total mass HCH in layer S2	g/m ²	PartS2_HCH
KdHCHDMS2	overall partition coefficient HCH in layer S2	m ³ /kgDM	PartS2_HCH
FrMefPOCS2	fraction Mef adsorbed to POC in layer S2	-	PartS2_Mef
FrMefPHYS2	fraction Mef adsorbed to phytoplankton in layer S2	-	PartS2_Mef
DisMefS2	free dissolved Mef in pore water layer S2	gMef/m ³ p	PartS2_Mef
DOCMefS2	Mef adsorbed to DOC in pore water layer S2	gMef/m ³ p	PartS2_Mef
QMefPOCS2	quality POC for Mef in layer S2	gMef/gC	PartS2_Mef
QMefPHYTS2	quality phytoplankton for Mef in layer S2	gMef/gC	PartS2_Mef
MefS2tot	total mass Mef in layer S2	g/m ²	PartS2_Mef
KdMefDMS2	overall partition coefficient Mef in layer S2	m ³ /kgDM	PartS2_Mef
DOC153	153 adsorbed to DOC	g153/m ³	PartWK_153
153tot	concentration 153 in water column	g153/m ³	PartWK_153
Q153SS	overall quality suspended solid for 153	mg153/kgDM	PartWK_153
Kd153SS	overall partition coefficient 153 in SS	m ³ /kgDM	PartWK_153
DOCAtr	Atrazine adsorbed to DOC	gAtr/m ³	PartWK_Atr
Atrtot	concentration Atrazine in water column	g/m ³	PartWK_Atr
QAtrSS	overall quality suspended solid for Atrazine	mgAtr/kgDM	PartWK_Atr
KdAtrSS	overall partition coefficient Atrazine in SS	m ³ /kgDM	PartWK_Atr
DOCBaP	BaP adsorbed to DOC	gBaP/m ³	PartWK_BaP
BaPtot	concentration BaP in water column	g/m ³	PartWK_BaP
QBaPSS	overall quality suspended solid for BaP	mgBaP/kgDM	PartWK_BaP
KdBaPSS	overall partition coefficient BaP in SS	m ³ /kgDM	PartWK_BaP
DOCDiu	Diu adsorbed to DOC	gDiu/m ³	PartWK_Diu
DiuTot	concentration Diu in water column	gDiu/m ³	PartWK_Diu
QDiuSS	overall quality suspended solid for Diu	mgDiu/kgDM	PartWK_Diu
KdDiuSS	overall partition coefficient Diu in SS	m ³ /kgDM	PartWK_Diu
DOCFlu	Flu adsorbed to DOC	gFlu/m ³	PartWK_Flu
FluTot	concentration Flu in water column	gFlu/m ³	PartWK_Flu

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Table 14.1 – continued from previous page

Item	Description	Unit	Process
QFluSS	overall quality suspended solid for Flu	mgFlu/kgDM	PartWK_Flu
KdFluSS	overall partition coefficient Flu in SS	m ³ /kgDM	PartWK_Flu
DOCHCB	HCB adsorbed to DOC	gHCB/m ³	PartWK_HCB
HCBtot	concentration HCB in water column	g/m ³	PartWK_HCB
QHCBSS	overall quality suspended solid for HCB	mgHCB/kgDM	PartWK_HCB
KdHCBSS	overall partition coefficient HCB in SS	m ³ /kgDM	PartWK_HCB
DOCHCH	HCH adsorbed to DOC	gHCH/m ³	PartWK_HCH
HCHtot	concentration HCH in water column	g/m ³	PartWK_HCH
QHCHSS	overall quality suspended solid for HCH	mgHCH/kgDM	PartWK_HCH
KdHCHSS	overall partition coefficient HCH in SS	m ³ /kgDM	PartWK_HCH
DOCMeF	MeF adsorbed to DOC	gMeF/m ³	PartWK_MeF
Meftot	concentration MeF in water column	gMeF/m ³	PartWK_MeF
QMeFSS	overall quality suspended solid for MeF	mgMeF/kgDM	PartWK_MeF
KdMeFSS	overall partition coefficient MeF in SS	m ³ /kgDM	PartWK_MeF
frFixedAlg	fraction of algae fixed	-	UlvaFix_P
M2_ALG01	concentration of algae type 1 per square me	gC/m ²	UlvaFix
M2_ALG02	concentration of algae type 2 per square me	gC/m ²	UlvaFix
M2_ALG03	concentration of algae type 3 per square me	gC/m ²	UlvaFix
M2_ALG04	concentration of algae type 4 per square me	gC/m ²	UlvaFix
M2_ALG05	concentration of algae type 5 per square me	gC/m ²	UlvaFix
M2_ALG06	concentration of algae type 6 per square me	gC/m ²	UlvaFix
M2_ALG07	concentration of algae type 7 per square me	gC/m ²	UlvaFix
M2_ALG08	concentration of algae type 8 per square me	gC/m ²	UlvaFix
M2_ALG09	concentration of algae type 9 per square me	gC/m ²	UlvaFix
M2_ALG10	concentration of algae type 10 per square m	gC/m ²	UlvaFix
M2_ALG11	concentration of algae type 11 per square m	gC/m ²	UlvaFix
M2_ALG12	concentration of algae type 12 per square m	gC/m ²	UlvaFix
M2_ALG13	concentration of algae type 13 per square m	gC/m ²	UlvaFix
M2_ALG14	concentration of algae type 14 per square m	gC/m ²	UlvaFix
M2_ALG15	concentration of algae type 15 per square m	gC/m ²	UlvaFix
M2_ALG16	concentration of algae type 16 per square m	gC/m ²	UlvaFix
M2_ALG17	concentration of algae type 17 per square m	gC/m ²	UlvaFix
M2_ALG18	concentration of algae type 18 per square m	gC/m ²	UlvaFix
M2_ALG19	concentration of algae type 19 per square m	gC/m ²	UlvaFix
M2_ALG20	concentration of algae type 20 per square m	gC/m ²	UlvaFix
M2_ALG21	concentration of algae type 21 per square m	gC/m ²	UlvaFix
M2_ALG22	concentration of algae type 22 per square m	gC/m ²	UlvaFix
M2_ALG23	concentration of algae type 23 per square m	gC/m ²	UlvaFix
M2_ALG24	concentration of algae type 24 per square m	gC/m ²	UlvaFix
M2_ALG25	concentration of algae type 25 per square m	gC/m ²	UlvaFix
M2_ALG26	concentration of algae type 26 per square m	gC/m ²	UlvaFix
M2_ALG27	concentration of algae type 27 per square m	gC/m ²	UlvaFix
M2_ALG28	concentration of algae type 28 per square m	gC/m ²	UlvaFix
M2_ALG29	concentration of algae type 29 per square m	gC/m ²	UlvaFix
M2_ALG30	concentration of algae type 30 per square m	gC/m ²	UlvaFix
kv153	volatilisation rate constant 153	m/d	Volat_153
cHe153	dimensionless Henry constant 153 at ambient temp.	-	Volat_153
kvHCB	volatilisation rate constant HCB	m/d	Volat_HCB
cHeHCB	dimensionless Henry constant HCB at ambient temp.	-	Volat_HCB
kvHCH	volatilisation rate constant HCH	m/d	Volat_HCH
cHeHCH	dimensionless Henry constant HCH at ambient temp.	-	Volat_HCH
kvFlu	volatilisation rate constant Flu	m/d	Volat_Flu
cHeFlu	dimensionless Henry constant Flu at ambient temp.	-	Volat_Flu
kvBaP	volatilisation rate constant BaP	m/d	Volat_BaP
cHeBaP	dimensionless Henry constant BaP at ambient temp.	-	Volat_BaP
kvAtr	volatilisation rate constant Atrazine	m/d	Volat_Atr
cHeAtr	dimensionless Henry constant Atr at ambient temp.	-	Volat_Atr
kvMeF	volatilisation rate constant MeF	m/d	Volat_MeF
cHeMeF	dimensionless Henry constant MeF at ambient temp.	-	Volat_MeF
kvDiu	volatilisation rate constant Diu	m/d	Volat_Diu
cHeDiu	dimensionless Henry constant Diu at ambient temp.	-	Volat_Diu
fSedCd	sedimentation flux Cd towards S1	gCd/(m ² d)	Sed_Cd
fSedCu	sedimentation flux Cu towards S1	gCu/(m ² d)	Sed_Cu
fSedZn	sedimentation flux Zn towards S1	gZn/(m ² d)	Sed_Zn
fSedHg	sedimentation flux Hg towards S1	gHg/(m ² d)	Sed_Hg
fSedNi	sedimentation flux Ni towards S1	gNi/(m ² d)	Sed_Ni
fSedPb	sedimentation flux Pb towards S1	gPb/(m ² d)	Sed_Pb
fSedCr	sedimentation flux Cr towards S1	gCr/(m ² d)	Sed_Cr
fSedAs	sedimentation flux As towards S1	gAs/(m ² d)	Sed_As

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Table 14.1 – continued from previous page

Item	Description	Unit	Process
fSedVa	sedimentation flux Va towards S1	$\text{gVa}/(\text{m}^2 \text{ d})$	Sed_Va
fSed153	sedimentation flux 153	$\text{g153}/(\text{m}^2 \text{ d})$	Sed_153
fSedHCB	sedimentation flux HCB	$\text{gHCB}/(\text{m}^2 \text{ d})$	Sed_HCB
fSedHCH	sedimentation flux HCH	$\text{gHCH}/(\text{m}^2 \text{ d})$	Sed_HCH
fSedFlu	sedimentation flux Flu	$\text{gFlu}/(\text{m}^2 \text{ d})$	Sed_Flu
fSedBaP	sedimentation flux BaP	$\text{gBaP}/(\text{m}^2 \text{ d})$	Sed_BaP
fSedAtr	sedimentation flux Atrazine	$\text{gAtr}/(\text{m}^2 \text{ d})$	Sed_Atr
fSedMef	sedimentation flux Mef	$\text{gMef}/(\text{m}^2 \text{ d})$	Sed_Mef
fSedDiu	sedimentation flux Diu	$\text{gDiu}/(\text{m}^2 \text{ d})$	Sed_Diu
NH3	Unionized ammonia NH3	gN/m^3	NH3free
frNH3	fraction unionized ammonia =NH3 / NH4_tot	-	NH3free
DO	dissolved oxygen concentration	$\text{gO2}/\text{m}^3$	PosOXY
SecchiDept	Secchi depth	m	Secchi
FrOMPPCOS1	fraction OMP in S1 adsorbed to POC	-	PartS1_OMP
FrOMPPHYS1	fraction OMP in S1 adsorbed to PHYT	-	PartS1_OMP
DisOMPS1	free dissolved OMP in pore-water S1	$\text{gOMP}/\text{m}^3\text{p}$	PartS1_OMP
DOCOMPS1	OMP adsorbed to DOC in pore-water S1	$\text{gOMP}/\text{m}^3\text{p}$	PartS1_OMP
QOMPPCOS1	quality POC for OMP in S1	gOMP/gC	PartS1_OMP
QOMPPHYS1	quality PHYT for OMP in S1	gOMP/gC	PartS1_OMP
OMPS1tot	total mass OMP in S1	g/m^2	PartS1_OMP
KdOMPDS1	overall partition coefficient OMP in S1	m^3/kgDW	PartS1_OMP
FrOMPPCOS2	fraction OMP in S2 adsorbed to POC	-	PartS2_OMP
FrOMPPHYS2	fraction OMP in S2 adsorbed to PHYT	-	PartS2_OMP
DisOMPS2	free dissolved OMP in pore-water S2	$\text{gOMP}/\text{m}^3\text{p}$	PartS2_OMP
DOCOMPS2	OMP adsorbed to DOC in pore-water S2	$\text{gOMP}/\text{m}^3\text{p}$	PartS2_OMP
QOMPPCOS2	quality POC for OMP in S2	gOMP/gC	PartS2_OMP
QOMPPHYS2	quality PHYT for OMP in S2	gOMP/gC	PartS2_OMP
OMPS2tot	total mass OMP in S2	g/m^2	PartS2_OMP
KdOMPDS2	overall partition coefficient OMP in S2	m^3/kgDW	PartS2_OMP
DOCOMP	DOC-adsorbed OMP in water column	gOMP/m^3	PartWK_OMP
OMPtot	concentration OMP in water column	gOMP/m^3	PartWK_OMP
QOMPSS	overall suspended solid quality OMP	mgOMP/kgDW	PartWK_OMP
KdOMPSS	overall partition coefficient OMP in SS	m^3/kgDW	PartWK_OMP
kvOMP	volatilisation rate constant OMP	m/d	Volat_OMP
cHeOMP	dimensionl. Henry const. OMP amb. temp.	-	Volat_OMP
fSedOMP	sedimentation flux OMP	$\text{gOMP}/(\text{m}^2 \text{ d})$	Sed_OMP
fTRSOXY	direct reparation towards sediment	$\text{g}/\text{m}^3/\text{d}$	TRSOXY
AHarveZoop	actual harvest flux zooplankton-grazer1	$\text{gC}/(\text{m}^2 \text{ d})$	HarveZoop
BHarveZoop	cumulated harvest flux zooplankton-grazer1	gC	HarveZoop
AHarveMuss	actual harvest flux mussel-grazer2	$\text{gC}/(\text{m}^2 \text{ d})$	HarveMuss
BHarveMuss	cumulated harvest flux mussel-grazer2	gC	HarveMuss
AHarveG3	actual harvest flux grazer3	$\text{gC}/(\text{m}^2 \text{ d})$	HarveG3
BHarveG3	cumulated harvest flux grazer3	gC	HarveG3
AHarveG4	actual harvest flux grazer4	$\text{gC}/(\text{m}^2 \text{ d})$	HarveG4
BHarveG4	cumulated harvest flux grazer4	gC	HarveG4
AHarveG5	actual harvest flux grazer5	$\text{gC}/(\text{m}^2 \text{ d})$	HarveG5
BHarveG5	cumulated harvest flux grazer5	gC	HarveG5
VB01ha	vegetation biomass cohort 1	tC/ha	VBGrowth01
VB01Aha	attainable vegetation biomass cohort 1	tC/ha	VBGrowth01
VB01Age0ha	biomass at age = 0 for cohort 1	tC/ha	VBGrowth01
NutLimVB01	nutrient limitation for vegetation growth	-	VBGrowth01
ffVB01MrtW	fraction in distribution mortality VB01 water	-	VB01_Mrt3W
fC2VB01P1y	fC2VB01P1y	$\text{gC}/(\text{m}^2 \text{ d})$	VB01_Mrt3W
fC2VB01P2y	fC2VB01P2y	no unit	VB01_Mrt3W
fC2VB01P3y	fC2VB01P3y	no unit	VB01_Mrt3W
fN2VB01P1y	fN2VB01P1y	no unit	VB01_Mrt3W
fN2VB01P2y	fN2VB01P2y	no unit	VB01_Mrt3W
fN2VB01P3y	fN2VB01P3y	no unit	VB01_Mrt3W
fP2VB01P1y	fP2VB01P1y	no unit	VB01_Mrt3W
fP2VB01P2y	fP2VB01P2y	no unit	VB01_Mrt3W
fP2VB01P3y	fP2VB01P3y	no unit	VB01_Mrt3W
fS2VB01P1y	fS2VB01P1y	no unit	VB01_Mrt3W
fS2VB01P2y	fS2VB01P2y	no unit	VB01_Mrt3W
fS2VB01P3y	fS2VB01P3y	no unit	VB01_Mrt3W
fC1VB01P5y	fC1VB01P5y	no unit	VB01_Mrt3W
fC3VB01P5y	fC3VB01P5y	no unit	VB01_Mrt3W
fN1VB01P5y	fN1VB01P5y	no unit	VB01_Mrt3W
fN3VB01P5y	fN3VB01P5y	no unit	VB01_Mrt3W
fP1VB01P5y	fP1VB01P5y	no unit	VB01_Mrt3W

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Table 14.1 – continued from previous page

Item	Description	Unit	Process
fP3VB01P5y	fP3VB01P5y	no unit	VB01_Mrt3W
fS1VB01P5y	fS1VB01P5y	no unit	VB01_Mrt3W
fS3VB01P5y	fS3VB01P5y	no unit	VB01_Mrt3W
ffVB01MrtS	fraction in distribution mortality VB01 sed.	-	VB01_Mrt3S
fC5VB01P1y	fC5VB01P1y	no unit	VB01_Mrt3S
fC5VB01P2y	fC5VB01P2y	no unit	VB01_Mrt3S
fC5VB01P3y	fC5VB01P3y	no unit	VB01_Mrt3S
fN5VB01P1y	fN5VB01P1y	no unit	VB01_Mrt3S
fN5VB01P2y	fN5VB01P2y	no unit	VB01_Mrt3S
fN5VB01P3y	fN5VB01P3y	no unit	VB01_Mrt3S
fP5VB01P1y	fP5VB01P1y	no unit	VB01_Mrt3S
fP5VB01P2y	fP5VB01P2y	no unit	VB01_Mrt3S
fP5VB01P3y	fP5VB01P3y	no unit	VB01_Mrt3S
fS5VB01P1y	fS5VB01P1y	no unit	VB01_Mrt3S
fS5VB01P2y	fS5VB01P2y	no unit	VB01_Mrt3S
fS5VB01P3y	fS5VB01P3y	no unit	VB01_Mrt3S
fC4VB01P5y	fC4VB01P5y	no unit	VB01_Mrt3S
fN4VB01P5y	fN4VB01P5y	no unit	VB01_Mrt3S
fP4VB01P5y	fP4VB01P5y	no unit	VB01_Mrt3S
fS4VB01P5y	fS4VB01P5y	no unit	VB01_Mrt3S
fN1VB01upy	uptake VB01 through roots N pool 1	gN/(m ² d)	VB01_Upt3D
fN2VB01upy	uptake VB01 through roots N pool 2	gN/(m ² d)	VB01_Upt3D
fP1VB01upy	uptake VB01 through roots P pool 1	gP/(m ² d)	VB01_Upt3D
fP2VB01upy	uptake VB01 through roots P pool 2	gP/(m ² d)	VB01_Upt3D
fS1VB01upy	uptake VB01 through roots S pool 1	gS/(m ² d)	VB01_Upt3D
fS2VB01upy	uptake VB01 through roots S pool 2	gS/(m ² d)	VB01_Upt3D
VB02ha	vegetation biomass cohort 2	tC/ha	VBGrowth02
VB02Aha	attainable vegetation biomass cohort 2	tC/ha	VBGrowth02
VB02Age0ha	biomass at age = 0 for cohort 2	tC/ha	VBGrowth02
NutLimVB02	nutrient limitation for vegetation growth	-	VBGrowth02
ffVB02MrtW	fraction in distribution mortality VB02 water	-	VB02_Mrt3W
fC2VB02P1y	fC2VB02P1y	gC/(m ² d)	VB02_Mrt3W
fC2VB02P2y	fC2VB02P2y	no unit	VB02_Mrt3W
fC2VB02P3y	fC2VB02P3y	no unit	VB02_Mrt3W
fN2VB02P1y	fN2VB02P1y	no unit	VB02_Mrt3W
fN2VB02P2y	fN2VB02P2y	no unit	VB02_Mrt3W
fN2VB02P3y	fN2VB02P3y	no unit	VB02_Mrt3W
fP2VB02P1y	fP2VB02P1y	no unit	VB02_Mrt3W
fP2VB02P2y	fP2VB02P2y	no unit	VB02_Mrt3W
fP2VB02P3y	fP2VB02P3y	no unit	VB02_Mrt3W
fS2VB02P1y	fS2VB02P1y	no unit	VB02_Mrt3W
fS2VB02P2y	fS2VB02P2y	no unit	VB02_Mrt3W
fS2VB02P3y	fS2VB02P3y	no unit	VB02_Mrt3W
fC1VB02P5y	fC1VB02P5y	no unit	VB02_Mrt3W
fC3VB02P5y	fC3VB02P5y	no unit	VB02_Mrt3W
fN1VB02P5y	fN1VB02P5y	no unit	VB02_Mrt3W
fN3VB02P5y	fN3VB02P5y	no unit	VB02_Mrt3W
fP1VB02P5y	fP1VB02P5y	no unit	VB02_Mrt3W
fP3VB02P5y	fP3VB02P5y	no unit	VB02_Mrt3W
fS1VB02P5y	fS1VB02P5y	no unit	VB02_Mrt3W
fS3VB02P5y	fS3VB02P5y	no unit	VB02_Mrt3W
ffVB02MrtS	fraction in distribution mortality VB02 sed.	-	VB02_Mrt3S
fC5VB02P1y	fC5VB02P1y	no unit	VB02_Mrt3S
fC5VB02P2y	fC5VB02P2y	no unit	VB02_Mrt3S
fC5VB02P3y	fC5VB02P3y	no unit	VB02_Mrt3S
fN5VB02P1y	fN5VB02P1y	no unit	VB02_Mrt3S
fN5VB02P2y	fN5VB02P2y	no unit	VB02_Mrt3S
fN5VB02P3y	fN5VB02P3y	no unit	VB02_Mrt3S
fP5VB02P1y	fP5VB02P1y	no unit	VB02_Mrt3S
fP5VB02P2y	fP5VB02P2y	no unit	VB02_Mrt3S
fP5VB02P3y	fP5VB02P3y	no unit	VB02_Mrt3S
fS5VB02P1y	fS5VB02P1y	no unit	VB02_Mrt3S
fS5VB02P2y	fS5VB02P2y	no unit	VB02_Mrt3S
fS5VB02P3y	fS5VB02P3y	no unit	VB02_Mrt3S
fC4VB02P5y	fC4VB02P5y	no unit	VB02_Mrt3S
fN4VB02P5y	fN4VB02P5y	no unit	VB02_Mrt3S
fP4VB02P5y	fP4VB02P5y	no unit	VB02_Mrt3S
fS4VB02P5y	fS4VB02P5y	no unit	VB02_Mrt3S
fN1VB02upy	uptake VB02 through roots N pool 1	gN/(m ² d)	VB02_Upt3D
fN2VB02upy	uptake VB02 through roots N pool 2	gN/(m ² d)	VB02_Upt3D

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Table 14.1 – continued from previous page

Item	Description	Unit	Process
fP1VB02upy	uptake VB02 through roots P pool 1	gP/(m ² d)	VB02_Upt3D
fP2VB02upy	uptake VB02 through roots P pool 2	gP/(m ² d)	VB02_Upt3D
fS1VB02upy	uptake VB02 through roots S pool 1	gS/(m ² d)	VB02_Upt3D
fS2VB02upy	uptake VB02 through roots S pool 2	gS/(m ² d)	VB02_Upt3D
VB03ha	vegetation biomass cohort 3	tC/ha	VBGrowth03
VB03Aha	attainable vegetation biomass cohort 3	tC/ha	VBGrowth03
VB03Age0ha	biomass at age = 0 for cohort 3	tC/ha	VBGrowth03
NutLimVB03	nutrient limitation for vegetation growth	-	VBGrowth03
ffVB03MrtW	fraction in distribution mortality VB03 water	-	VB03_Mrt3W
fC2VB03P1y	fC2VB03P1y	gC/(m ² d)	VB03_Mrt3W
fC2VB03P2y	fC2VB03P2y	no unit	VB03_Mrt3W
fC2VB03P3y	fC2VB03P3y	no unit	VB03_Mrt3W
fn2VB03P1y	fn2VB03P1y	no unit	VB03_Mrt3W
fn2VB03P2y	fn2VB03P2y	no unit	VB03_Mrt3W
fn2VB03P3y	fn2VB03P3y	no unit	VB03_Mrt3W
fP2VB03P1y	fP2VB03P1y	no unit	VB03_Mrt3W
fP2VB03P2y	fP2VB03P2y	no unit	VB03_Mrt3W
fP2VB03P3y	fP2VB03P3y	no unit	VB03_Mrt3W
fS2VB03P1y	fS2VB03P1y	no unit	VB03_Mrt3W
fS2VB03P2y	fS2VB03P2y	no unit	VB03_Mrt3W
fS2VB03P3y	fS2VB03P3y	no unit	VB03_Mrt3W
fC1VB03P5y	fC1VB03P5y	no unit	VB03_Mrt3W
fC3VB03P5y	fC3VB03P5y	no unit	VB03_Mrt3W
fn1VB03P5y	fn1VB03P5y	no unit	VB03_Mrt3W
fn3VB03P5y	fn3VB03P5y	no unit	VB03_Mrt3W
fP1VB03P5y	fP1VB03P5y	no unit	VB03_Mrt3W
fP3VB03P5y	fP3VB03P5y	no unit	VB03_Mrt3W
fS1VB03P5y	fS1VB03P5y	no unit	VB03_Mrt3W
fS3VB03P5y	fS3VB03P5y	no unit	VB03_Mrt3W
ffVB03MrtS	fraction in distribution mortality VB03 sed.	-	VB03_Mrt3S
fC5VB03P1y	fC5VB03P1y	no unit	VB03_Mrt3S
fC5VB03P2y	fC5VB03P2y	no unit	VB03_Mrt3S
fC5VB03P3y	fC5VB03P3y	no unit	VB03_Mrt3S
fn5VB03P1y	fn5VB03P1y	no unit	VB03_Mrt3S
fn5VB03P2y	fn5VB03P2y	no unit	VB03_Mrt3S
fn5VB03P3y	fn5VB03P3y	no unit	VB03_Mrt3S
fP5VB03P1y	fP5VB03P1y	no unit	VB03_Mrt3S
fP5VB03P2y	fP5VB03P2y	no unit	VB03_Mrt3S
fP5VB03P3y	fP5VB03P3y	no unit	VB03_Mrt3S
fS5VB03P1y	fS5VB03P1y	no unit	VB03_Mrt3S
fS5VB03P2y	fS5VB03P2y	no unit	VB03_Mrt3S
fS5VB03P3y	fS5VB03P3y	no unit	VB03_Mrt3S
fC4VB03P5y	fC4VB03P5y	no unit	VB03_Mrt3S
fn4VB03P5y	fn4VB03P5y	no unit	VB03_Mrt3S
fP4VB03P5y	fP4VB03P5y	no unit	VB03_Mrt3S
fS4VB03P5y	fS4VB03P5y	no unit	VB03_Mrt3S
fn1VB03upy	uptake VB03 through roots N pool 1	gN/(m ² d)	VB03_Upt3D
fn2VB03upy	uptake VB03 through roots N pool 2	gN/(m ² d)	VB03_Upt3D
fP1VB03upy	uptake VB03 through roots P pool 1	gP/(m ² d)	VB03_Upt3D
fP2VB03upy	uptake VB03 through roots P pool 2	gP/(m ² d)	VB03_Upt3D
fS1VB03upy	uptake VB03 through roots S pool 1	gS/(m ² d)	VB03_Upt3D
fS2VB03upy	uptake VB03 through roots S pool 2	gS/(m ² d)	VB03_Upt3D
VB04ha	vegetation biomass cohort 4	tC/ha	VBGrowth04
VB04Aha	attainable vegetation biomass cohort 4	tC/ha	VBGrowth04
VB04Age0ha	biomass at age = 0 for cohort 4	tC/ha	VBGrowth04
NutLimVB04	nutrient limitation for vegetation growth	-	VBGrowth04
ffVB04MrtW	fraction in distribution mortality VB04 water	-	VB04_Mrt3W
fC2VB04P1y	fC2VB04P1y	gC/(m ² d)	VB04_Mrt3W
fC2VB04P2y	fC2VB04P2y	no unit	VB04_Mrt3W
fC2VB04P3y	fC2VB04P3y	no unit	VB04_Mrt3W
fn2VB04P1y	fn2VB04P1y	no unit	VB04_Mrt3W
fn2VB04P2y	fn2VB04P2y	no unit	VB04_Mrt3W
fn2VB04P3y	fn2VB04P3y	no unit	VB04_Mrt3W
fP2VB04P1y	fP2VB04P1y	no unit	VB04_Mrt3W
fP2VB04P2y	fP2VB04P2y	no unit	VB04_Mrt3W
fP2VB04P3y	fP2VB04P3y	no unit	VB04_Mrt3W
fS2VB04P1y	fS2VB04P1y	no unit	VB04_Mrt3W
fS2VB04P2y	fS2VB04P2y	no unit	VB04_Mrt3W
fS2VB04P3y	fS2VB04P3y	no unit	VB04_Mrt3W
fC1VB04P5y	fC1VB04P5y	no unit	VB04_Mrt3W

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Table 14.1 – continued from previous page

Item	Description	Unit	Process
fC3VB04P5y	fC3VB04P5y	no unit	VB04_Mrt3W
fN1VB04P5y	fN1VB04P5y	no unit	VB04_Mrt3W
fN3VB04P5y	fN3VB04P5y	no unit	VB04_Mrt3W
fP1VB04P5y	fP1VB04P5y	no unit	VB04_Mrt3W
fP3VB04P5y	fP3VB04P5y	no unit	VB04_Mrt3W
fS1VB04P5y	fS1VB04P5y	no unit	VB04_Mrt3W
fS3VB04P5y	fS3VB04P5y	no unit	VB04_Mrt3W
ffVB04MrtS	fraction in distribution mortality VB04 sed.	-	VB04_Mrt3S
fC5VB04P1y	fC5VB04P1y	no unit	VB04_Mrt3S
fC5VB04P2y	fC5VB04P2y	no unit	VB04_Mrt3S
fC5VB04P3y	fC5VB04P3y	no unit	VB04_Mrt3S
fN5VB04P1y	fN5VB04P1y	no unit	VB04_Mrt3S
fN5VB04P2y	fN5VB04P2y	no unit	VB04_Mrt3S
fN5VB04P3y	fN5VB04P3y	no unit	VB04_Mrt3S
fP5VB04P1y	fP5VB04P1y	no unit	VB04_Mrt3S
fP5VB04P2y	fP5VB04P2y	no unit	VB04_Mrt3S
fP5VB04P3y	fP5VB04P3y	no unit	VB04_Mrt3S
fS5VB04P1y	fS5VB04P1y	no unit	VB04_Mrt3S
fS5VB04P2y	fS5VB04P2y	no unit	VB04_Mrt3S
fS5VB04P3y	fS5VB04P3y	no unit	VB04_Mrt3S
fC4VB04P5y	fC4VB04P5y	no unit	VB04_Mrt3S
fN4VB04P5y	fN4VB04P5y	no unit	VB04_Mrt3S
fP4VB04P5y	fP4VB04P5y	no unit	VB04_Mrt3S
fS4VB04P5y	fS4VB04P5y	no unit	VB04_Mrt3S
fN1VB04upy	uptake VB04 through roots N pool 1	gN/(m ² d)	VB04_Upt3D
fN2VB04upy	uptake VB04 through roots N pool 2	gN/(m ² d)	VB04_Upt3D
fP1VB04upy	uptake VB04 through roots P pool 1	gP/(m ² d)	VB04_Upt3D
fP2VB04upy	uptake VB04 through roots P pool 2	gP/(m ² d)	VB04_Upt3D
fS1VB04upy	uptake VB04 through roots S pool 1	gS/(m ² d)	VB04_Upt3D
fS2VB04upy	uptake VB04 through roots S pool 2	gS/(m ² d)	VB04_Upt3D
VB05ha	vegetation biomass cohort 5	tC/ha	VBGrowth05
VB05Aha	attainable vegetation biomass cohort 5	tC/ha	VBGrowth05
VB05Age0ha	biomass at age = 0 for cohort 5	tC/ha	VBGrowth05
NutLimVB05	nutrient limitation for vegetation growth	-	VBGrowth05
ffVB05MrtW	fraction in distribution mortality VB05 water	-	VB05_Mrt3W
fC2VB05P1y	fC2VB05P1y	gC/(m ² d)	VB05_Mrt3W
fC2VB05P2y	fC2VB05P2y	no unit	VB05_Mrt3W
fC2VB05P3y	fC2VB05P3y	no unit	VB05_Mrt3W
fN2VB05P1y	fN2VB05P1y	no unit	VB05_Mrt3W
fN2VB05P2y	fN2VB05P2y	no unit	VB05_Mrt3W
fN2VB05P3y	fN2VB05P3y	no unit	VB05_Mrt3W
fP2VB05P1y	fP2VB05P1y	no unit	VB05_Mrt3W
fP2VB05P2y	fP2VB05P2y	no unit	VB05_Mrt3W
fP2VB05P3y	fP2VB05P3y	no unit	VB05_Mrt3W
fS2VB05P1y	fS2VB05P1y	no unit	VB05_Mrt3W
fS2VB05P2y	fS2VB05P2y	no unit	VB05_Mrt3W
fS2VB05P3y	fS2VB05P3y	no unit	VB05_Mrt3W
fC1VB05P5y	fC1VB05P5y	no unit	VB05_Mrt3W
fC3VB05P5y	fC3VB05P5y	no unit	VB05_Mrt3W
fN1VB05P5y	fN1VB05P5y	no unit	VB05_Mrt3W
fN3VB05P5y	fN3VB05P5y	no unit	VB05_Mrt3W
fP1VB05P5y	fP1VB05P5y	no unit	VB05_Mrt3W
fP3VB05P5y	fP3VB05P5y	no unit	VB05_Mrt3W
fS1VB05P5y	fS1VB05P5y	no unit	VB05_Mrt3W
fS3VB05P5y	fS3VB05P5y	no unit	VB05_Mrt3W
ffVB05MrtS	fraction in distribution mortality VB05 sed.	-	VB05_Mrt3S
fC5VB05P1y	fC5VB05P1y	no unit	VB05_Mrt3S
fC5VB05P2y	fC5VB05P2y	no unit	VB05_Mrt3S
fC5VB05P3y	fC5VB05P3y	no unit	VB05_Mrt3S
fN5VB05P1y	fN5VB05P1y	no unit	VB05_Mrt3S
fN5VB05P2y	fN5VB05P2y	no unit	VB05_Mrt3S
fN5VB05P3y	fN5VB05P3y	no unit	VB05_Mrt3S
fP5VB05P1y	fP5VB05P1y	no unit	VB05_Mrt3S
fP5VB05P2y	fP5VB05P2y	no unit	VB05_Mrt3S
fP5VB05P3y	fP5VB05P3y	no unit	VB05_Mrt3S
fS5VB05P1y	fS5VB05P1y	no unit	VB05_Mrt3S
fS5VB05P2y	fS5VB05P2y	no unit	VB05_Mrt3S
fS5VB05P3y	fS5VB05P3y	no unit	VB05_Mrt3S
fC4VB05P5y	fC4VB05P5y	no unit	VB05_Mrt3S
fN4VB05P5y	fN4VB05P5y	no unit	VB05_Mrt3S
fP4VB05P5y	fP4VB05P5y	no unit	VB05_Mrt3S

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Table 14.1 – continued from previous page

Item	Description	Unit	Process
fS4VB05P5y	fS4VB05P5y	no unit	VB05_Mrt3S
fN1VB05upy	uptake VB05 through roots N pool 1	gN/(m ² d)	VB05_Upt3D
fN2VB05upy	uptake VB05 through roots N pool 2	gN/(m ² d)	VB05_Upt3D
fP1VB05upy	uptake VB05 through roots P pool 1	gP/(m ² d)	VB05_Upt3D
fP2VB05upy	uptake VB05 through roots P pool 2	gP/(m ² d)	VB05_Upt3D
fS1VB05upy	uptake VB05 through roots S pool 1	gS/(m ² d)	VB05_Upt3D
fS2VB05upy	uptake VB05 through roots S pool 2	gS/(m ² d)	VB05_Upt3D
VB06ha	vegetation biomass cohort 6	tC/ha	VBGrowth06
VB06Aha	attainable vegetation biomass cohort 6	tC/ha	VBGrowth06
VB06Age0ha	biomass at age = 0 for cohort 6	tC/ha	VBGrowth06
NutLimVB06	nutrient limitation for vegetation growth	-	VBGrowth06
ffVB06MrtW	fraction in distribution mortality VB06 water	-	VB06_Mrt3W
fC2VB06P1y	fC2VB06P1y	gC/(m ² d)	VB06_Mrt3W
fC2VB06P2y	fC2VB06P2y	no unit	VB06_Mrt3W
fC2VB06P3y	fC2VB06P3y	no unit	VB06_Mrt3W
fN2VB06P1y	fN2VB06P1y	no unit	VB06_Mrt3W
fN2VB06P2y	fN2VB06P2y	no unit	VB06_Mrt3W
fN2VB06P3y	fN2VB06P3y	no unit	VB06_Mrt3W
fP2VB06P1y	fP2VB06P1y	no unit	VB06_Mrt3W
fP2VB06P2y	fP2VB06P2y	no unit	VB06_Mrt3W
fP2VB06P3y	fP2VB06P3y	no unit	VB06_Mrt3W
fS2VB06P1y	fS2VB06P1y	no unit	VB06_Mrt3W
fS2VB06P2y	fS2VB06P2y	no unit	VB06_Mrt3W
fS2VB06P3y	fS2VB06P3y	no unit	VB06_Mrt3W
fC1VB06P5y	fC1VB06P5y	no unit	VB06_Mrt3W
fC3VB06P5y	fC3VB06P5y	no unit	VB06_Mrt3W
fN1VB06P5y	fN1VB06P5y	no unit	VB06_Mrt3W
fN3VB06P5y	fN3VB06P5y	no unit	VB06_Mrt3W
fP1VB06P5y	fP1VB06P5y	no unit	VB06_Mrt3W
fP3VB06P5y	fP3VB06P5y	no unit	VB06_Mrt3W
fS1VB06P5y	fS1VB06P5y	no unit	VB06_Mrt3W
fS3VB06P5y	fS3VB06P5y	no unit	VB06_Mrt3W
ffVB06MrtS	fraction in distribution mortality VB06 sed.	-	VB06_Mrt3S
fC5VB06P1y	fC5VB06P1y	no unit	VB06_Mrt3S
fC5VB06P2y	fC5VB06P2y	no unit	VB06_Mrt3S
fC5VB06P3y	fC5VB06P3y	no unit	VB06_Mrt3S
fN5VB06P1y	fN5VB06P1y	no unit	VB06_Mrt3S
fN5VB06P2y	fN5VB06P2y	no unit	VB06_Mrt3S
fN5VB06P3y	fN5VB06P3y	no unit	VB06_Mrt3S
fP5VB06P1y	fP5VB06P1y	no unit	VB06_Mrt3S
fP5VB06P2y	fP5VB06P2y	no unit	VB06_Mrt3S
fP5VB06P3y	fP5VB06P3y	no unit	VB06_Mrt3S
fS5VB06P1y	fS5VB06P1y	no unit	VB06_Mrt3S
fS5VB06P2y	fS5VB06P2y	no unit	VB06_Mrt3S
fS5VB06P3y	fS5VB06P3y	no unit	VB06_Mrt3S
fC4VB06P5y	fC4VB06P5y	no unit	VB06_Mrt3S
fN4VB06P5y	fN4VB06P5y	no unit	VB06_Mrt3S
fP4VB06P5y	fP4VB06P5y	no unit	VB06_Mrt3S
fS4VB06P5y	fS4VB06P5y	no unit	VB06_Mrt3S
fN1VB06upy	uptake VB06 through roots N pool 1	gN/(m ² d)	VB06_Upt3D
fN2VB06upy	uptake VB06 through roots N pool 2	gN/(m ² d)	VB06_Upt3D
fP1VB06upy	uptake VB06 through roots P pool 1	gP/(m ² d)	VB06_Upt3D
fP2VB06upy	uptake VB06 through roots P pool 2	gP/(m ² d)	VB06_Upt3D
fS1VB06upy	uptake VB06 through roots S pool 1	gS/(m ² d)	VB06_Upt3D
fS2VB06upy	uptake VB06 through roots S pool 2	gS/(m ² d)	VB06_Upt3D
VB07ha	vegetation biomass cohort 7	tC/ha	VBGrowth07
VB07Aha	attainable vegetation biomass cohort 7	tC/ha	VBGrowth07
VB07Age0ha	biomass at age = 0 for cohort 7	tC/ha	VBGrowth07
NutLimVB07	nutrient limitation for vegetation growth	-	VBGrowth07
ffVB07MrtW	fraction in distribution mortality VB07 water	-	VB07_Mrt3W
fC2VB07P1y	fC2VB07P1y	gC/(m ² d)	VB07_Mrt3W
fC2VB07P2y	fC2VB07P2y	no unit	VB07_Mrt3W
fC2VB07P3y	fC2VB07P3y	no unit	VB07_Mrt3W
fN2VB07P1y	fN2VB07P1y	no unit	VB07_Mrt3W
fN2VB07P2y	fN2VB07P2y	no unit	VB07_Mrt3W
fN2VB07P3y	fN2VB07P3y	no unit	VB07_Mrt3W
fP2VB07P1y	fP2VB07P1y	no unit	VB07_Mrt3W
fP2VB07P2y	fP2VB07P2y	no unit	VB07_Mrt3W
fP2VB07P3y	fP2VB07P3y	no unit	VB07_Mrt3W
fS2VB07P1y	fS2VB07P1y	no unit	VB07_Mrt3W

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Table 14.1 – continued from previous page

Item	Description	Unit	Process
fS2VB07P2y	fS2VB07P2y	no unit	VB07_Mrt3W
fS2VB07P3y	fS2VB07P3y	no unit	VB07_Mrt3W
fC1VB07P5y	fC1VB07P5y	no unit	VB07_Mrt3W
fC3VB07P5y	fC3VB07P5y	no unit	VB07_Mrt3W
fN1VB07P5y	fN1VB07P5y	no unit	VB07_Mrt3W
fN3VB07P5y	fN3VB07P5y	no unit	VB07_Mrt3W
fP1VB07P5y	fP1VB07P5y	no unit	VB07_Mrt3W
fP3VB07P5y	fP3VB07P5y	no unit	VB07_Mrt3W
fS1VB07P5y	fS1VB07P5y	no unit	VB07_Mrt3W
fS3VB07P5y	fS3VB07P5y	no unit	VB07_Mrt3W
ffVB07MrtS	fraction in distribution mortality VB07 sed.	-	VB07_Mrt3S
fC5VB07P1y	fC5VB07P1y	no unit	VB07_Mrt3S
fC5VB07P2y	fC5VB07P2y	no unit	VB07_Mrt3S
fC5VB07P3y	fC5VB07P3y	no unit	VB07_Mrt3S
fN5VB07P1y	fN5VB07P1y	no unit	VB07_Mrt3S
fN5VB07P2y	fN5VB07P2y	no unit	VB07_Mrt3S
fN5VB07P3y	fN5VB07P3y	no unit	VB07_Mrt3S
fP5VB07P1y	fP5VB07P1y	no unit	VB07_Mrt3S
fP5VB07P2y	fP5VB07P2y	no unit	VB07_Mrt3S
fP5VB07P3y	fP5VB07P3y	no unit	VB07_Mrt3S
fS5VB07P1y	fS5VB07P1y	no unit	VB07_Mrt3S
fS5VB07P2y	fS5VB07P2y	no unit	VB07_Mrt3S
fS5VB07P3y	fS5VB07P3y	no unit	VB07_Mrt3S
fC4VB07P5y	fC4VB07P5y	no unit	VB07_Mrt3S
fN4VB07P5y	fN4VB07P5y	no unit	VB07_Mrt3S
fP4VB07P5y	fP4VB07P5y	no unit	VB07_Mrt3S
fS4VB07P5y	fS4VB07P5y	no unit	VB07_Mrt3S
fN1VB07upy	uptake VB07 through roots N pool 1	gN/(m ² d)	VB07_Upt3D
fN2VB07upy	uptake VB07 through roots N pool 2	gN/(m ² d)	VB07_Upt3D
fP1VB07upy	uptake VB07 through roots P pool 1	gP/(m ² d)	VB07_Upt3D
fP2VB07upy	uptake VB07 through roots P pool 2	gP/(m ² d)	VB07_Upt3D
fS1VB07upy	uptake VB07 through roots S pool 1	gS/(m ² d)	VB07_Upt3D
fS2VB07upy	uptake VB07 through roots S pool 2	gS/(m ² d)	VB07_Upt3D
VB08ha	vegetation biomass cohort 8	tC/ha	VBGrowth08
VB08Aha	attainable vegetation biomass cohort 8	tC/ha	VBGrowth08
VB08Age0ha	biomass at age = 0 for cohort 8	tC/ha	VBGrowth08
NutLimVB08	nutrient limitation for vegetation growth	-	VBGrowth08
k_minfstC	first order mineralization rate fast detr-C	1/d	DecFast
k_minfstN	first order mineralization rate fast detr-N	1/d	DecFast
k_minfstP	first order mineralization rate fast detr-P	1/d	DecFast
f_dtstfstN	stripping factor fast decomposing detr-N	-	DecFast
f_dtstfstP	stripping factor fast decomposing detr-P	-	DecFast
f_dtstfstS	stripping factor fast decomposing detr-S	-	DecFast
k_minmedC	first order mineralization rate med. detr-C	1/d	DecMedium
k_minmedN	first order mineralization rate med. detr-N	1/d	DecMedium
k_minmedP	first order mineralization rate med. detr-P	1/d	DecMedium
f_dtstmedN	stripping factor medium decomposing detr-N	-	DecMedium
f_dtstmedP	stripping factor medium decomposing detr-P	-	DecMedium
f_dtstmedS	stripping factor medium decomposing detr-S	-	DecMedium
k_minslwC	first order mineralization rate slow detr-C	1/d	DecSlow
k_minslwN	first order mineralization rate slow detr-N	1/d	DecSlow
k_minslwP	first order mineralization rate slow detr-P	1/d	DecSlow
f_dtstslwN	stripping factor slow decomposing detr-N	-	DecSlow
f_dtstslwP	stripping factor slow decomposing detr-P	-	DecSlow
f_dtstslwS	stripping factor slow decomposing detr-S	-	DecSlow
k_minrefC	first order mineralization rate refr. detr-C	1/d	DecRefr
k_minrefN	first order mineralization rate refr. detr-N	1/d	DecRefr
k_minrefP	first order mineralization rate refr. detr-P	1/d	DecRefr
f_drNdumy	stripping factor refractory detr-N not used	-	DecRefr
f_drPdumy	stripping factor refractory detr-P not used	-	DecRefr
f_drSdumy	stripping factor refractory detr-S not used	-	DecRefr
k_mindocC	first order mineralization rate diss. detr-C	1/d	DecDOC
k_mindocN	first order mineralization rate diss. detr-N	1/d	DecDOC
k_mindocP	first order mineralization rate diss. detr-P	1/d	DecDOC
f_ddNdumy	stripping factor dissolved detr-N not used	-	DecDOC
f_ddPdumy	stripping factor dissolved detr-P not used	-	DecDOC
f_ddSdumy	stripping factor dissolved detr-S not used	-	DecDOC
fSWBurDum	Dummy SW burial flux	no unit	S12TraMPB1
fBurS1MPB1	burial flux MPB1 from layer S1	gC/(m ² d)	S12TraMPB1
fBurS2MPB1	burial flux MPB1 from layer S2	gC/(m ² d)	S12TraMPB1

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Table 14.1 – continued from previous page

Item	Description	Unit	Process
fDigS1MPB1	digging flux MPB1 to layer S1	gC/(m ² d)	S12TraMPB1
fDigS2MPB1	digging flux MPB1 to layer S2	gC/(m ² d)	S12TraMPB1
MPB1S1	MPB1 per m ² in layer S1	gC/m ²	S1_Comp
MPB1S2	MPB1 per m ² in layer S2	gC/m ²	S2_Comp
fBurS1MPB2	burial flux MPB1 from layer S1	gC/(m ² d)	S12TraMPB2
fBurS2MPB2	burial flux MPB1 from layer S2	gC/(m ² d)	S12TraMPB2
fDigS1MPB2	digging flux MPB1 to layer S1	gC/(m ² d)	S12TraMPB2
fDigS2MPB2	digging flux MPB1 to layer S2	gC/(m ² d)	S12TraMPB2
MPB2S1	MPB2 per m ² in layer S1	gC/m ²	S1_Comp
MPB2S2	MPB2 per m ² in layer S2	gC/m ²	S2_Comp
ffVB08MrtW	fraction in distribution mortality VB08 water	-	VB08_Mrt3W
fC2VB08P1y	fC2VB08P1y	gC/(m ² d)	VB08_Mrt3W
fC2VB08P2y	fC2VB08P2y	no unit	VB08_Mrt3W
fC2VB08P3y	fC2VB08P3y	no unit	VB08_Mrt3W
fN2VB08P1y	fN2VB08P1y	no unit	VB08_Mrt3W
fN2VB08P2y	fN2VB08P2y	no unit	VB08_Mrt3W
fN2VB08P3y	fN2VB08P3y	no unit	VB08_Mrt3W
fP2VB08P1y	fP2VB08P1y	no unit	VB08_Mrt3W
fP2VB08P2y	fP2VB08P2y	no unit	VB08_Mrt3W
fP2VB08P3y	fP2VB08P3y	no unit	VB08_Mrt3W
fS2VB08P1y	fS2VB08P1y	no unit	VB08_Mrt3W
fS2VB08P2y	fS2VB08P2y	no unit	VB08_Mrt3W
fS2VB08P3y	fS2VB08P3y	no unit	VB08_Mrt3W
fC1VB08P5y	fC1VB08P5y	no unit	VB08_Mrt3W
fC3VB08P5y	fC3VB08P5y	no unit	VB08_Mrt3W
fN1VB08P5y	fN1VB08P5y	no unit	VB08_Mrt3W
fN3VB08P5y	fN3VB08P5y	no unit	VB08_Mrt3W
fP1VB08P5y	fP1VB08P5y	no unit	VB08_Mrt3W
fP3VB08P5y	fP3VB08P5y	no unit	VB08_Mrt3W
fS1VB08P5y	fS1VB08P5y	no unit	VB08_Mrt3W
fS3VB08P5y	fS3VB08P5y	no unit	VB08_Mrt3W
ffVB08MrtS	fraction in distribution mortality VB08 sed.	-	VB08_Mrt3S
fC5VB08P1y	fC5VB08P1y	no unit	VB08_Mrt3S
fC5VB08P2y	fC5VB08P2y	no unit	VB08_Mrt3S
fC5VB08P3y	fC5VB08P3y	no unit	VB08_Mrt3S
fN5VB08P1y	fN5VB08P1y	no unit	VB08_Mrt3S
fN5VB08P2y	fN5VB08P2y	no unit	VB08_Mrt3S
fN5VB08P3y	fN5VB08P3y	no unit	VB08_Mrt3S
fP5VB08P1y	fP5VB08P1y	no unit	VB08_Mrt3S
fP5VB08P2y	fP5VB08P2y	no unit	VB08_Mrt3S
fP5VB08P3y	fP5VB08P3y	no unit	VB08_Mrt3S
fS5VB08P1y	fS5VB08P1y	no unit	VB08_Mrt3S
fS5VB08P2y	fS5VB08P2y	no unit	VB08_Mrt3S
fS5VB08P3y	fS5VB08P3y	no unit	VB08_Mrt3S
fC4VB08P5y	fC4VB08P5y	no unit	VB08_Mrt3S
fN4VB08P5y	fN4VB08P5y	no unit	VB08_Mrt3S
fP4VB08P5y	fP4VB08P5y	no unit	VB08_Mrt3S
fS4VB08P5y	fS4VB08P5y	no unit	VB08_Mrt3S
fN1VB08upy	uptake VB08 through roots N pool 1	gN/(m ² d)	VB08_Upt3D
fN2VB08upy	uptake VB08 through roots N pool 2	gN/(m ² d)	VB08_Upt3D
fP1VB08upy	uptake VB08 through roots P pool 1	gP/(m ² d)	VB08_Upt3D
fP2VB08upy	uptake VB08 through roots P pool 2	gP/(m ² d)	VB08_Upt3D
fS1VB08upy	uptake VB08 through roots S pool 1	gS/(m ² d)	VB08_Upt3D
fS2VB08upy	uptake VB08 through roots S pool 2	gS/(m ² d)	VB08_Upt3D
VB09ha	vegetation biomass cohort 3	tC/ha	VBGrowth09
VB09Aha	attainable vegetation biomass cohort 3	tC/ha	VBGrowth09
VB09Age0ha	biomass at age = 0 for cohort 3	tC/ha	VBGrowth09
NutLimVB09	nutrient limitation for vegetation growth	-	VBGrowth09
ffVB09MrtW	fraction in distribution mortality VB09 water	-	VB09_Mrt3W
fC2VB09P1y	fC2VB09P1y	gC/(m ² d)	VB09_Mrt3W
fC2VB09P2y	fC2VB09P2y	no unit	VB09_Mrt3W
fC2VB09P3y	fC2VB09P3y	no unit	VB09_Mrt3W
fN2VB09P1y	fN2VB09P1y	no unit	VB09_Mrt3W
fN2VB09P2y	fN2VB09P2y	no unit	VB09_Mrt3W
fN2VB09P3y	fN2VB09P3y	no unit	VB09_Mrt3W
fP2VB09P1y	fP2VB09P1y	no unit	VB09_Mrt3W
fP2VB09P2y	fP2VB09P2y	no unit	VB09_Mrt3W
fP2VB09P3y	fP2VB09P3y	no unit	VB09_Mrt3W
fS2VB09P1y	fS2VB09P1y	no unit	VB09_Mrt3W
fS2VB09P2y	fS2VB09P2y	no unit	VB09_Mrt3W

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Table 14.1 – continued from previous page

Item	Description	Unit	Process
fS2VB09P3y	fS2VB09P3y	no unit	VB09_Mrt3W
fC1VB09P5y	fC1VB09P5y	no unit	VB09_Mrt3W
fC3VB09P5y	fC3VB09P5y	no unit	VB09_Mrt3W
fN1VB09P5y	fN1VB09P5y	no unit	VB09_Mrt3W
fN3VB09P5y	fN3VB09P5y	no unit	VB09_Mrt3W
fP1VB09P5y	fP1VB09P5y	no unit	VB09_Mrt3W
fP3VB09P5y	fP3VB09P5y	no unit	VB09_Mrt3W
fS1VB09P5y	fS1VB09P5y	no unit	VB09_Mrt3W
fS3VB09P5y	fS3VB09P5y	no unit	VB09_Mrt3W
ffVB09MrtS	fraction in distribution mortality VB09 sed.	-	VB09_Mrt3S
fC5VB09P1y	fC5VB09P1y	no unit	VB09_Mrt3S
fC5VB09P2y	fC5VB09P2y	no unit	VB09_Mrt3S
fC5VB09P3y	fC5VB09P3y	no unit	VB09_Mrt3S
fN5VB09P1y	fN5VB09P1y	no unit	VB09_Mrt3S
fN5VB09P2y	fN5VB09P2y	no unit	VB09_Mrt3S
fN5VB09P3y	fN5VB09P3y	no unit	VB09_Mrt3S
fP5VB09P1y	fP5VB09P1y	no unit	VB09_Mrt3S
fP5VB09P2y	fP5VB09P2y	no unit	VB09_Mrt3S
fP5VB09P3y	fP5VB09P3y	no unit	VB09_Mrt3S
fS5VB09P1y	fS5VB09P1y	no unit	VB09_Mrt3S
fS5VB09P2y	fS5VB09P2y	no unit	VB09_Mrt3S
fS5VB09P3y	fS5VB09P3y	no unit	VB09_Mrt3S
fC4VB09P5y	fC4VB09P5y	no unit	VB09_Mrt3S
fN4VB09P5y	fN4VB09P5y	no unit	VB09_Mrt3S
fP4VB09P5y	fP4VB09P5y	no unit	VB09_Mrt3S
fS4VB09P5y	fS4VB09P5y	no unit	VB09_Mrt3S
fResS1As	resuspension flux As from layer S1	gAs/(m ² d)	S12TraAs
fResS2As	resuspension flux As from layer S2	gAs/(m ² d)	S12TraAs
fBurS1As	burial flux As from layer S1	gAs/(m ² d)	S12TraAs
fBurS2As	burial flux As from layer S2	gAs/(m ² d)	S12TraAs
fDigS1As	digging flux As to layer S1	gAs/(m ² d)	S12TraAs
fDigS2As	digging flux As to layer S2	gAs/(m ² d)	S12TraAs
fResS1Cd	resuspension flux Cd from layer S1	gCd/(m ² d)	S12TraCd
fResS2Cd	resuspension flux Cd from layer S2	gCd/(m ² d)	S12TraCd
fBurS1Cd	burial flux Cd from layer S1	gCd/(m ² d)	S12TraCd
fBurS2Cd	burial flux Cd from layer S2	gCd/(m ² d)	S12TraCd
fDigS1Cd	digging flux Cd to layer S1	gCd/(m ² d)	S12TraCd
fDigS2Cd	digging flux Cd to layer S2	gCd/(m ² d)	S12TraCd
fResS1Cr	resuspension flux Cr from layer S1	gCr/(m ² d)	S12TraCr
fResS2Cr	resuspension flux Cr from layer S2	gCr/(m ² d)	S12TraCr
fBurS1Cr	burial flux Cr from layer S1	gCr/(m ² d)	S12TraCr
fBurS2Cr	burial flux Cr from layer S2	gCr/(m ² d)	S12TraCr
fDigS1Cr	digging flux Cr to layer S1	gCr/(m ² d)	S12TraCr
fDigS2Cr	digging flux Cr to layer S2	gCr/(m ² d)	S12TraCr
fResS1Cu	resuspension flux Cu from layer S1	gCu/(m ² d)	S12TraCu
fResS2Cu	resuspension flux Cu from layer S2	gCu/(m ² d)	S12TraCu
fBurS1Cu	burial flux Cu from layer S1	gCu/(m ² d)	S12TraCu
fBurS2Cu	burial flux Cu from layer S2	gCu/(m ² d)	S12TraCu
fDigS1Cu	digging flux Cu to layer S1	gCu/(m ² d)	S12TraCu
fDigS2Cu	digging flux Cu to layer S2	gCu/(m ² d)	S12TraCu
fResS1Hg	resuspension flux Hg from layer S1	gHg/(m ² d)	S12TraHg
fResS2Hg	resuspension flux Hg from layer S2	gHg/(m ² d)	S12TraHg
fBurS1Hg	burial flux Hg from layer S1	gHg/(m ² d)	S12TraHg
fBurS2Hg	burial flux Hg from layer S2	gHg/(m ² d)	S12TraHg
fDigS1Hg	digging flux Hg to layer S1	gHg/(m ² d)	S12TraHg
fDigS2Hg	digging flux Hg to layer S2	gHg/(m ² d)	S12TraHg
fResS1Ni	resuspension flux Ni from layer S1	gNi/(m ² d)	S12TraNi
fResS2Ni	resuspension flux Ni from layer S2	gNi/(m ² d)	S12TraNi
fBurS1Ni	burial flux Ni from layer S1	gNi/(m ² d)	S12TraNi
fBurS2Ni	burial flux Ni from layer S2	gNi/(m ² d)	S12TraNi
fDigS1Ni	digging flux Ni to layer S1	gNi/(m ² d)	S12TraNi
fDigS2Ni	digging flux Ni to layer S2	gNi/(m ² d)	S12TraNi
fResS1Pb	resuspension flux Pb from layer S1	gPb/(m ² d)	S12TraPb
fResS2Pb	resuspension flux Pb from layer S2	gPb/(m ² d)	S12TraPb
fBurS1Pb	burial flux Pb from layer S1	gPb/(m ² d)	S12TraPb
fBurS2Pb	burial flux Pb from layer S2	gPb/(m ² d)	S12TraPb
fDigS1Pb	digging flux Pb to layer S1	gPb/(m ² d)	S12TraPb
fDigS2Pb	digging flux Pb to layer S2	gPb/(m ² d)	S12TraPb
fResS1Va	resuspension flux Va from layer S1	gVa/(m ² d)	S12TraVa

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Table 14.1 – continued from previous page

Item	Description	Unit	Process
fResS2Va	resuspension flux Va from layer S2	$\text{gVa}/(\text{m}^2 \text{ d})$	S12TraVa
fBurS1Va	burial flux Va from layer S1	$\text{gVa}/(\text{m}^2 \text{ d})$	S12TraVa
fBurS2Va	burial flux Va from layer S2	$\text{gVa}/(\text{m}^2 \text{ d})$	S12TraVa
fDigS1Va	digging flux Va to layer S1	$\text{gVa}/(\text{m}^2 \text{ d})$	S12TraVa
fDigS2Va	digging flux Va to layer S2	$\text{gVa}/(\text{m}^2 \text{ d})$	S12TraVa
fResS1Zn	resuspension flux Zn from layer S1	$\text{gZn}/(\text{m}^2 \text{ d})$	S12TraZn
fResS2Zn	resuspension flux Zn from layer S2	$\text{gZn}/(\text{m}^2 \text{ d})$	S12TraZn
fBurS1Zn	burial flux Zn from layer S1	$\text{gZn}/(\text{m}^2 \text{ d})$	S12TraZn
fBurS2Zn	burial flux Zn from layer S2	$\text{gZn}/(\text{m}^2 \text{ d})$	S12TraZn
fDigS1Zn	digging flux Zn to layer S1	$\text{gZn}/(\text{m}^2 \text{ d})$	S12TraZn
fDigS2Zn	digging flux Zn to layer S2	$\text{gZn}/(\text{m}^2 \text{ d})$	S12TraZn
fResS1153	resuspension flux 153 from layer S1	$\text{g153}/(\text{m}^2 \text{ d})$	S12Tra153
fResS2153	resuspension flux 153 from layer S2	$\text{g153}/(\text{m}^2 \text{ d})$	S12Tra153
fBurS1153	burial flux 153 from layer S1	$\text{g153}/(\text{m}^2 \text{ d})$	S12Tra153
fBurS2153	burial flux 153 from layer S2	$\text{g153}/(\text{m}^2 \text{ d})$	S12Tra153
fDigS1153	digging flux 153 to layer S1	$\text{g153}/(\text{m}^2 \text{ d})$	S12Tra153
fDigS2153	digging flux 153 to layer S2	$\text{g153}/(\text{m}^2 \text{ d})$	S12Tra153
fResS1Atr	resuspension flux Atr from layer S1	$\text{gAtr}/(\text{m}^2 \text{ d})$	S12TraAtr
fResS2Atr	resuspension flux Atr from layer S2	$\text{gAtr}/(\text{m}^2 \text{ d})$	S12TraAtr
fBurS1Atr	burial flux Atr from layer S1	$\text{gAtr}/(\text{m}^2 \text{ d})$	S12TraAtr
fBurS2Atr	burial flux Atr from layer S2	$\text{gAtr}/(\text{m}^2 \text{ d})$	S12TraAtr
fDigS1Atr	digging flux Atr to layer S1	$\text{gAtr}/(\text{m}^2 \text{ d})$	S12TraAtr
fDigS2Atr	digging flux Atr to layer S2	$\text{gAtr}/(\text{m}^2 \text{ d})$	S12TraAtr
fResS1Mef	resuspension flux Mef from layer S1	$\text{gMef}/(\text{m}^2 \text{ d})$	S12TraMef
fResS2Mef	resuspension flux Mef from layer S2	$\text{gMef}/(\text{m}^2 \text{ d})$	S12TraMef
fBurS1Mef	burial flux Mef from layer S1	$\text{gMef}/(\text{m}^2 \text{ d})$	S12TraMef
fBurS2Mef	burial flux Mef from layer S2	$\text{gMef}/(\text{m}^2 \text{ d})$	S12TraMef
fDigS1Mef	digging flux Mef to layer S1	$\text{gMef}/(\text{m}^2 \text{ d})$	S12TraMef
fDigS2Mef	digging flux Mef to layer S2	$\text{gMef}/(\text{m}^2 \text{ d})$	S12TraMef
fResS1Diu	resuspension flux Diu from layer S1	$\text{gDiu}/(\text{m}^2 \text{ d})$	S12TraDiu
fResS2Diu	resuspension flux Diu from layer S2	$\text{gDiu}/(\text{m}^2 \text{ d})$	S12TraDiu
fBurS1Diu	burial flux Diu from layer S1	$\text{gDiu}/(\text{m}^2 \text{ d})$	S12TraDiu
fBurS2Diu	burial flux Diu from layer S2	$\text{gDiu}/(\text{m}^2 \text{ d})$	S12TraDiu
fDigS1Diu	digging flux Diu to layer S1	$\text{gDiu}/(\text{m}^2 \text{ d})$	S12TraDiu
fDigS2Diu	digging flux Diu to layer S2	$\text{gDiu}/(\text{m}^2 \text{ d})$	S12TraDiu
fResS1BaP	resuspension flux BaP from layer S1	$\text{gBaP}/(\text{m}^2 \text{ d})$	S12TraBaP
fResS2BaP	resuspension flux BaP from layer S2	$\text{gBaP}/(\text{m}^2 \text{ d})$	S12TraBaP
fBurS1BaP	burial flux BaP from layer S1	$\text{gBaP}/(\text{m}^2 \text{ d})$	S12TraBaP
fBurS2BaP	burial flux BaP from layer S2	$\text{gBaP}/(\text{m}^2 \text{ d})$	S12TraBaP
fDigS1BaP	digging flux BaP to layer S1	$\text{gBaP}/(\text{m}^2 \text{ d})$	S12TraBaP
fDigS2BaP	digging flux BaP to layer S2	$\text{gBaP}/(\text{m}^2 \text{ d})$	S12TraBaP
fResS1OMP	resuspension flux OMP from layer S1	$\text{gOMP}/(\text{m}^2 \text{ d})$	S12TraOMP
fResS2OMP	resuspension flux OMP from layer S2	$\text{gOMP}/(\text{m}^2 \text{ d})$	S12TraOMP
fBurS1OMP	burial flux OMP from layer S1	$\text{gOMP}/(\text{m}^2 \text{ d})$	S12TraOMP
fBurS2OMP	burial flux OMP from layer S2	$\text{gOMP}/(\text{m}^2 \text{ d})$	S12TraOMP
fDigS1OMP	digging flux OMP to layer S1	$\text{gOMP}/(\text{m}^2 \text{ d})$	S12TraOMP
fDigS2OMP	digging flux OMP to layer S2	$\text{gOMP}/(\text{m}^2 \text{ d})$	S12TraOMP
fResS1Flu	resuspension flux Flu from layer S1	$\text{gFlu}/(\text{m}^2 \text{ d})$	S12TraFlu
fResS2Flu	resuspension flux Flu from layer S2	$\text{gFlu}/(\text{m}^2 \text{ d})$	S12TraFlu
fBurS1Flu	burial flux Flu from layer S1	$\text{gFlu}/(\text{m}^2 \text{ d})$	S12TraFlu
fBurS2Flu	burial flux Flu from layer S2	$\text{gFlu}/(\text{m}^2 \text{ d})$	S12TraFlu
fDigS1Flu	digging flux Flu to layer S1	$\text{gFlu}/(\text{m}^2 \text{ d})$	S12TraFlu
fDigS2Flu	digging flux Flu to layer S2	$\text{gFlu}/(\text{m}^2 \text{ d})$	S12TraFlu
fResS1HCB	resuspension flux HCB from layer S1	$\text{gHCB}/(\text{m}^2 \text{ d})$	S12TraHCB
fResS2HCB	resuspension flux HCB from layer S2	$\text{gHCB}/(\text{m}^2 \text{ d})$	S12TraHCB
fBurS1HCB	burial flux HCB from layer S1	$\text{gHCB}/(\text{m}^2 \text{ d})$	S12TraHCB
fBurS2HCB	burial flux HCB from layer S2	$\text{gHCB}/(\text{m}^2 \text{ d})$	S12TraHCB
fDigS1HCB	digging flux HCB to layer S1	$\text{gHCB}/(\text{m}^2 \text{ d})$	S12TraHCB
fDigS2HCB	digging flux HCB to layer S2	$\text{gHCB}/(\text{m}^2 \text{ d})$	S12TraHCB
fResS1HCH	resuspension flux HCH from layer S1	$\text{gHCH}/(\text{m}^2 \text{ d})$	S12TraHCH
fResS2HCH	resuspension flux HCH from layer S2	$\text{gHCH}/(\text{m}^2 \text{ d})$	S12TraHCH
fBurS1HCH	burial flux HCH from layer S1	$\text{gHCH}/(\text{m}^2 \text{ d})$	S12TraHCH
fBurS2HCH	burial flux HCH from layer S2	$\text{gHCH}/(\text{m}^2 \text{ d})$	S12TraHCH
fDigS1HCH	digging flux HCH to layer S1	$\text{gHCH}/(\text{m}^2 \text{ d})$	S12TraHCH
fDigS2HCH	digging flux HCH to layer S2	$\text{gHCH}/(\text{m}^2 \text{ d})$	S12TraHCH
fResS1DetN	resuspension flux DetN from layer S1	$\text{gN}/(\text{m}^2 \text{ d})$	S12TraDetN
fResS2DetN	resuspension flux DetN from layer S2	$\text{gN}/(\text{m}^2 \text{ d})$	S12TraDetN
fBurS1DetN	burial flux DetN from layer S1	$\text{gN}/(\text{m}^2 \text{ d})$	S12TraDetN

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Item	Description	Unit	Process
fSWBuS1DtN	burial flux of DetN from layer S1 SW	gN/(m ² d)	S12TraDetN
fBurS2DetN	burial flux DetN from layer S2	gN/(m ² d)	S12TraDetN
fDigS1DetN	digging flux DetN to layer S1	gN/(m ² d)	S12TraDetN
fDigS2DetN	digging flux DetN to layer S2	gN/(m ² d)	S12TraDetN
fResS1DetP	resuspension flux DetP from layer S1	gP/(m ² d)	S12TraDetP
fResS2DetP	resuspension flux DetP from layer S2	gP/(m ² d)	S12TraDetP
fBurS1DetP	burial flux DetP from layer S1	gP/(m ² d)	S12TraDetP
fSWBuS1DtP	burial flux of DetP from layer S1 SW	gP/(m ² d)	S12TraDetP
fBurS2DetP	burial flux DetP from layer S2	gP/(m ² d)	S12TraDetP
fDigS1DetP	digging flux DetP to layer S1	gP/(m ² d)	S12TraDetP
fDigS2DetP	digging flux DetP to layer S2	gP/(m ² d)	S12TraDetP
fResS1DetS	resuspension flux DetSi from layer S1	gSi/(m ² d)	S12TraDetS
fResS2DetS	resuspension flux DetSi from layer S2	gSi/(m ² d)	S12TraDetS
fBurS1DetS	burial flux DetSi from layer S1	gSi/(m ² d)	S12TraDetS
fSWBuS1DtS	burial flux of DetSi from layer S1 SW	gSi/(m ² d)	S12TraDetS
fBurS2DetS	burial flux DetP from layer S2	gSi/(m ² d)	S12TraDetS
fDigS1DetS	digging flux DetSi to layer S1	gSi/(m ² d)	S12TraDetS
fDigS2DetS	digging flux DetSi to layer S2	gSi/(m ² d)	S12TraDetS
fResS1OON	resuspension flux OON from layer S1	gN/(m ² d)	S12TraOON
fResS2OON	resuspension flux OON from layer S2	gN/(m ² d)	S12TraOON
fBurS1OON	burial flux OON from layer S1	gN/(m ² d)	S12TraOON
fSWBuS1OON	burial flux of OON from layer S1 using SW	gN/(m ² d)	S12TraOON
fBurS2OON	burial flux OON from layer S2	gN/(m ² d)	S12TraOON
fDigS1OON	digging flux OON to layer S1	gN/(m ² d)	S12TraOON
fDigS2OON	digging flux OON to layer S2	gN/(m ² d)	S12TraOON
fResS1OOP	resuspension flux OOP from layer S1	gP/(m ² d)	S12TraOOP
fResS2OOP	resuspension flux OOP from layer S2	gP/(m ² d)	S12TraOOP
fBurS1OOP	burial flux OOP from layer S1	gP/(m ² d)	S12TraOOP
fSWBuS1OOP	burial flux of OOP from layer S1 using SW	gP/(m ² d)	S12TraOOP
fBurS2OOP	burial flux OOP from layer S2	gP/(m ² d)	S12TraOOP
fDigS1OOP	digging flux OOP to layer S1	gP/(m ² d)	S12TraOOP
fDigS2OOP	digging flux OOP to layer S2	gP/(m ² d)	S12TraOOP
fResS1OOSi	resuspension flux OOSi from layer S1	gSi/(m ² d)	S12TraOOSi
fResS2OOSi	resuspension flux OOSi from layer S2	gSi/(m ² d)	S12TraOOSi
fBurS1OOSi	burial flux OOSi from layer S1	gSi/(m ² d)	S12TraOOSi
fSWBuS1OOSi	burial flux of OOSi from layer S1 SW	gSi/(m ² d)	S12TraOOSi
fBurS2OOSi	burial flux OOSi from layer S2	gSi/(m ² d)	S12TraOOSi
fDigS1OOSi	digging flux OOSi to layer S1	gSi/(m ² d)	S12TraOOSi
fDigS2OOSi	digging flux OOSi to layer S2	gSi/(m ² d)	S12TraOOSi
fResS1AAP	resuspension flux AAP from layer S1	gP/(m ² d)	S12TraAAP
fResS2AAP	resuspension flux AAP from layer S2	gP/(m ² d)	S12TraAAP
fBurS1AAP	burial flux AAP from layer S1	gP/(m ² d)	S12TraAAP
fBurS2AAP	burial flux AAP from layer S2	gP/(m ² d)	S12TraAAP
fDigS1AAP	digging flux AAP to layer S1	gP/(m ² d)	S12TraAAP
fDigS2AAP	digging flux AAP to layer S2	gP/(m ² d)	S12TraAAP
fN1VB09upy	uptake VB09 through roots N pool 1	gN/(m ² d)	VB09_Upt3D
fN2VB09upy	uptake VB09 through roots N pool 2	gN/(m ² d)	VB09_Upt3D
fP1VB09upy	uptake VB09 through roots P pool 1	gP/(m ² d)	VB09_Upt3D
fP2VB09upy	uptake VB09 through roots P pool 2	gP/(m ² d)	VB09_Upt3D
fS1VB09upy	uptake VB09 through roots S pool 1	gS/(m ² d)	VB09_Upt3D
fS2VB09upy	uptake VB09 through roots S pool 2	gS/(m ² d)	VB09_Upt3D
ExtVIFresh	VL extinction related to freshwater	1/m	Extinc_VLG
ExtUVFresh	UV extinction related to freshwater	1/m	Extinc_UVG
ExtUVODS	UV extinction by DOC	1/m	Extinc_UVG
FrVAPTIM	fraction VIVP and APATPP total susp solids	gP/gDM	Compos
TOSnoa	total organic S no algae	gS/m ³	Compos
fSedPOS1	sedimentation flux POS1	gS/(m ² d)	SedNPOC1
fSedPOS2	sedimentation flux POS2	gS/(m ² d)	SedNPOC2
fSedPOS3	sedimentation flux POS3	gS/(m ² d)	SedNPOC3
fSedPOS4	sedimentation flux POS4	gS/(m ² d)	SedNPOC4
SalFunPOC1	salinity function on settling POC1	-	CalVS_POC1
FloFunPOC1	flocculation function on settling POC1	-	CalVS_POC1
SalFunPOC2	salinity function on settling POC2	-	CalVS_POC2
FloFunPOC2	flocculation function on settling POC2	-	CalVS_POC2
SalFunPOC3	salinity function on settling POC3	-	CalVS_POC3
FloFunPOC3	flocculation function on settling POC3	-	CalVS_POC3
SalFunPOC4	salinity function on settling POC4	-	CalVS_POC4
FloFunPOC4	flocculation function on settling POC4	-	CalVS_POC4

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Item	Description	Unit	Process
Lim_IN	Inorganic N limitation	-	BLOOM_P
Lim_IP	Inorganic P limitation	-	BLOOM_P
Lim_Si	Inorganic Si limitation	-	BLOOM_P
Lim_IC	Inorganic C limitation	-	BLOOM_P
Lim_DetN	Detritus N limitation mixotrophs	-	BLOOM_P
Lim_DetP	Detritus P limitation mixotrophs	-	BLOOM_P
Lim_FixN	N limitation N-fixers	-	BLOOM_P
Lim_dummy	Lim_dummy	-	BLOOM_P
Lim_inhib	Photo inhibition	-	BLOOM_P
Lim_light	Light limitation	-	BLOOM_P
Lim_GALG	Growth limitation of group	-	BLOOM_P
Lim_MALG	Mortality limitation of group	-	BLOOM_P
BLALG01	algae group 1 concentration	gC/m ³	BLOOM
BLALG02	algae group 2 concentration	gC/m ³	BLOOM
BLALG03	algae group 3 concentration	gC/m ³	BLOOM
BLALG04	algae group 4 concentration	gC/m ³	BLOOM
BLALG05	algae group 5 concentration	gC/m ³	BLOOM
BLALG06	algae group 6 concentration	gC/m ³	BLOOM
BLALG07	algae group 7 concentration	gC/m ³	BLOOM
BLALG08	algae group 8 concentration	gC/m ³	BLOOM
BLALG09	algae group 9 concentration	gC/m ³	BLOOM
BLALG10	algae group 10 concentration	gC/m ³	BLOOM
BLALG11	algae group 11 concentration	gC/m ³	BLOOM
BLALG12	algae group 12 concentration	gC/m ³	BLOOM
BLALG13	algae group 13 concentration	gC/m ³	BLOOM
BLALG14	algae group 14 concentration	gC/m ³	BLOOM
BLALG15	algae group 15 concentration	gC/m ³	BLOOM
BLALG16	algae group 16 concentration	gC/m ³	BLOOM
BLALG17	algae group 17 concentration	gC/m ³	BLOOM
BLALG18	algae group 18 concentration	gC/m ³	BLOOM
BLALG19	algae group 19 concentration	gC/m ³	BLOOM
BLALG20	algae group 20 concentration	gC/m ³	BLOOM
BLALG21	algae group 21 concentration	gC/m ³	BLOOM
BLALG22	algae group 22 concentration	gC/m ³	BLOOM
BLALG23	algae group 23 concentration	gC/m ³	BLOOM
BLALG24	algae group 24 concentration	gC/m ³	BLOOM
BLALG25	algae group 25 concentration	gC/m ³	BLOOM
BLALG26	algae group 26 concentration	gC/m ³	BLOOM
BLALG27	algae group 27 concentration	gC/m ³	BLOOM
BLALG28	algae group 28 concentration	gC/m ³	BLOOM
BLALG29	algae group 29 concentration	gC/m ³	BLOOM
BLALG30	algae group 30 concentration	gC/m ³	BLOOM
Lim_GALG01	Growth limitation of group 01	no unit	BLOOM
Lim_GALG02	Growth limitation of group 02	no unit	BLOOM
Lim_GALG03	Growth limitation of group 03	no unit	BLOOM
Lim_GALG04	Growth limitation of group 04	no unit	BLOOM
Lim_GALG05	Growth limitation of group 05	no unit	BLOOM
Lim_GALG06	Growth limitation of group 06	no unit	BLOOM
Lim_GALG07	Growth limitation of group 07	no unit	BLOOM
Lim_GALG08	Growth limitation of group 08	no unit	BLOOM
Lim_GALG09	Growth limitation of group 09	no unit	BLOOM
Lim_GALG10	Growth limitation of group 10	no unit	BLOOM
Lim_GALG11	Growth limitation of group 11	no unit	BLOOM
Lim_GALG12	Growth limitation of group 12	no unit	BLOOM
Lim_GALG13	Growth limitation of group 13	no unit	BLOOM
Lim_GALG14	Growth limitation of group 14	no unit	BLOOM
Lim_GALG15	Growth limitation of group 15	no unit	BLOOM
Lim_GALG16	Growth limitation of group 16	no unit	BLOOM
Lim_GALG17	Growth limitation of group 17	no unit	BLOOM
Lim_GALG18	Growth limitation of group 18	no unit	BLOOM
Lim_GALG19	Growth limitation of group 19	no unit	BLOOM
Lim_GALG20	Growth limitation of group 20	no unit	BLOOM
Lim_GALG21	Growth limitation of group 21	no unit	BLOOM
Lim_GALG22	Growth limitation of group 22	no unit	BLOOM
Lim_GALG23	Growth limitation of group 23	no unit	BLOOM
Lim_GALG24	Growth limitation of group 24	no unit	BLOOM
Lim_GALG25	Growth limitation of group 25	no unit	BLOOM
Lim_GALG26	Growth limitation of group 26	no unit	BLOOM
Lim_GALG27	Growth limitation of group 27	no unit	BLOOM

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Table 14.1 – continued from previous page

Item	Description	Unit	Process
Lim_GALG28	Growth limitation of group 28	no unit	BLOOM
Lim_GALG29	Growth limitation of group 29	no unit	BLOOM
Lim_GALG30	Growth limitation of group 30	no unit	BLOOM
Lim_MALG01	Mortality limitation of group 01	-	BLOOM
Lim_MALG02	Mortality limitation of group 02	-	BLOOM
Lim_MALG03	Mortality limitation of group 03	-	BLOOM
Lim_MALG04	Mortality limitation of group 04	-	BLOOM
Lim_MALG05	Mortality limitation of group 05	-	BLOOM
Lim_MALG06	Mortality limitation of group 06	-	BLOOM
Lim_MALG07	Mortality limitation of group 07	-	BLOOM
Lim_MALG08	Mortality limitation of group 08	-	BLOOM
Lim_MALG09	Mortality limitation of group 09	-	BLOOM
Lim_MALG10	Mortality limitation of group 10	-	BLOOM
Lim_MALG11	Mortality limitation of group 11	-	BLOOM
Lim_MALG12	Mortality limitation of group 12	-	BLOOM
Lim_MALG13	Mortality limitation of group 13	-	BLOOM
Lim_MALG14	Mortality limitation of group 14	-	BLOOM
Lim_MALG15	Mortality limitation of group 15	-	BLOOM
Lim_MALG16	Mortality limitation of group 16	-	BLOOM
Lim_MALG17	Mortality limitation of group 17	-	BLOOM
Lim_MALG18	Mortality limitation of group 18	-	BLOOM
Lim_MALG19	Mortality limitation of group 19	-	BLOOM
Lim_MALG20	Mortality limitation of group 20	-	BLOOM
Lim_MALG21	Mortality limitation of group 21	-	BLOOM
Lim_MALG22	Mortality limitation of group 22	-	BLOOM
Lim_MALG23	Mortality limitation of group 23	-	BLOOM
Lim_MALG24	Mortality limitation of group 24	-	BLOOM
Lim_MALG25	Mortality limitation of group 25	-	BLOOM
Lim_MALG26	Mortality limitation of group 26	-	BLOOM
Lim_MALG27	Mortality limitation of group 27	-	BLOOM
Lim_MALG28	Mortality limitation of group 28	-	BLOOM
Lim_MALG29	Mortality limitation of group 29	-	BLOOM
Lim_MALG30	Mortality limitation of group 30	-	BLOOM
M2_ALG	concentration of algae square metre	gC/m ²	UlvaFix_P
Satcal	saturation state of calcite	-	pH_carb
Satarg	saturation state of aragonite	-	pH_carb
BOH4	concentration of boric acid	gB/m ³	pH_carb
pCO2water	pressure equivalent of CO2 in the water	microatm	pH_carb
CoverEM01	covergae with EM01	-	Coverage
CoverEM02	covergae with EM02	-	Coverage
CoverEM03	covergae with EM03	-	Coverage
CoverEM04	covergae with EM04	-	Coverage
CoverEM05	covergae with EM05	-	Coverage
LimNSM01W	nitrogen limitation function SM01 <0-1> water	-	MACNUTSM01
LimPSM01W	phosphorus limitation function SM01 <0-1> water	-	MACNUTSM01
LCO2SM01	CO2+H2CO3 limitation function SM01 <0-1>	-	MACNUTSM01
LimNSM01B	nitrogen limitation function SM01 <0-1> bottom	-	MACNUTSM01
LimPSM01B	phosphorus limitation function SM01 <0-1>bottom	-	MACNUTSM01
LimNSM02W	nitrogen limitation function SM02 <0-1> water	-	MACNUTSM02
LimPSM02W	phosphorus limitation function SM02 <0-1> water	-	MACNUTSM02
LCO2SM02	CO2+H2CO3 limitation function SM02 <0-1>	-	MACNUTSM02
LimNSM02B	nitrogen limitation function SM02 <0-1> bottom	-	MACNUTSM02
LimPSM02B	phosphorus limitation function SM02 <0-1>bottom	-	MACNUTSM02
LimNSM03W	nitrogen limitation function SM03 <0-1> water	-	MACNUTSM03
LimPSM03W	phosphorus limitation function SM03 <0-1> water	-	MACNUTSM03
LCO2SM03	CO2+H2CO3 limitation function SM03 <0-1>	-	MACNUTSM03
LimNSM03B	nitrogen limitation function SM03 <0-1> bottom	-	MACNUTSM03
LimPSM03B	phosphorus limitation function SM03 <0-1>bottom	-	MACNUTSM03
LimNSM04W	nitrogen limitation function SM04 <0-1> water	-	MACNUTSM04
LimPSM04W	phosphorus limitation function SM04 <0-1> water	-	MACNUTSM04
LCO2SM04	CO2+H2CO3 limitation function SM04 <0-1>	-	MACNUTSM04
LimNSM04B	nitrogen limitation function SM04 <0-1> bottom	-	MACNUTSM04
LimPSM04B	phosphorus limitation function SM04 <0-1>bottom	-	MACNUTSM04
LimNSM05W	nitrogen limitation function SM05 <0-1> water	-	MACNUTSM05
LimPSM05W	phosphorus limitation function SM05 <0-1> water	-	MACNUTSM05
LCO2SM05	CO2+H2CO3 limitation function SM05 <0-1>	-	MACNUTSM05
LimNSM05B	nitrogen limitation function SM05 <0-1> bottom	-	MACNUTSM05
LimPSM05B	phosphorus limitation function SM05 <0-1>bottom	-	MACNUTSM05
EM01M2	emerged macrophyt 1 per square metre	gC/m ²	MacroPhyt1
SM01M2	submerged macrophyt 1 per square metre	gC/m ²	MacroPhyt1
RH01M2	rhizome macrophyt 1 per square metre	gC/m ²	MacroPhyt1

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Table 14.1 – continued from previous page

Item	Description	Unit	Process
LimNH4EM01	NH4 limitation function for EM01 <0-1>	-	MacroPhyt1
LimNO3EM01	NO3 limitation function for EM01 <0-1>	-	MacroPhyt1
LimPO4EM01	PO4 limitation function for EM01 <0-1>	-	MacroPhyt1
LimNutEM01	nutrient limitation function for EM01 <0-1>	-	MacroPhyt1
LimCO2SM01	CO2 limitation function for SM01 <0-1>	-	MacroPhyt1
LimDLEM01	daylength limitation function for EM01 <0-1>	-	MacroPhyt1
LimDLSM01	daylength limitation function for SM01 <0-1>	-	MacroPhyt1
LimTEM01	temperature limitation function for EM01 <0-1>	-	MacroPhyt1
LimTSM01	temperature limitation function for SM01 <0-1>	-	MacroPhyt1
EM02M2	emerged macrophyt 2 per square metre	gC/m ²	MacroPhyt2
SM02M2	submerged macrophyt 2 per square metre	gC/m ²	MacroPhyt2
RH02M2	rhizome macrophyt 2 per square metre	gC/m ²	MacroPhyt2
LimNH4EM02	NH4 limitation function for EM02 <0-1>	-	MacroPhyt2
LimNO3EM02	NO3 limitation function for EM02 <0-1>	-	MacroPhyt2
LimPO4EM02	PO4 limitation function for EM02 <0-1>	-	MacroPhyt2
LimNutEM02	nutrient limitation function for EM02 <0-1>	-	MacroPhyt2
LimCO2SM02	CO2 limitation function for SM02 <0-1>	-	MacroPhyt2
LimDLEM02	daylength limitation function for EM02 <0-1>	-	MacroPhyt2
LimDLSM02	daylength limitation function for SM02 <0-1>	-	MacroPhyt2
LimTEM02	temperature limitation function for EM02 <0-1>	-	MacroPhyt2
LimTSM02	temperature limitation function for SM02 <0-1>	-	MacroPhyt2
EM03M2	emerged macrophyt 3 per square metre	gC/m ²	MacroPhyt3
SM03M2	submerged macrophyt 3 per square metre	gC/m ²	MacroPhyt3
RH03M2	rhizome macrophyt 3 per square metre	gC/m ²	MacroPhyt3
LimNH4EM03	NH4 limitation function for EM03 <0-1>	-	MacroPhyt3
LimNO3EM03	NO3 limitation function for EM03 <0-1>	-	MacroPhyt3
LimPO4EM03	PO4 limitation function for EM03 <0-1>	-	MacroPhyt3
LimNutEM03	nutrient limitation function for EM03 <0-1>	-	MacroPhyt3
LimCO2SM03	CO2 limitation function for SM03 <0-1>	-	MacroPhyt3
LimDLEM03	daylength limitation function for EM03 <0-1>	-	MacroPhyt3
LimDLSM03	daylength limitation function for SM03 <0-1>	-	MacroPhyt3
LimTEM03	temperature limitation function for EM03 <0-1>	-	MacroPhyt3
LimTSM03	temperature limitation function for SM03 <0-1>	-	MacroPhyt3
EM04M2	emerged macrophyt 4 per square metre	gC/m ²	MacroPhyt4
SM04M2	submerged macrophyt 4 per square metre	gC/m ²	MacroPhyt4
RH04M2	rhizome macrophyt 4 per square metre	gC/m ²	MacroPhyt4
LimNH4EM04	NH4 limitation function for EM04 <0-1>	-	MacroPhyt4
LimNO3EM04	NO3 limitation function for EM04 <0-1>	-	MacroPhyt4
LimPO4EM04	PO4 limitation function for EM04 <0-1>	-	MacroPhyt4
LimNutEM04	nutrient limitation function for EM04 <0-1>	-	MacroPhyt4
LimCO2SM04	CO2 limitation function for SM04 <0-1>	-	MacroPhyt4
LimDLEM04	daylength limitation function for EM04 <0-1>	-	MacroPhyt4
LimDLSM04	daylength limitation function for SM04 <0-1>	-	MacroPhyt4
LimTEM04	temperature limitation function for EM04 <0-1>	-	MacroPhyt4
LimTSM04	temperature limitation function for SM04 <0-1>	-	MacroPhyt4
EM05M2	emerged macrophyt 5 per square metre	gC/m ²	MacroPhyt5
SM05M2	submerged macrophyt 5 per square metre	gC/m ²	MacroPhyt5
RH05M2	rhizome macrophyt 5 per square metre	gC/m ²	MacroPhyt5
LimNH4EM05	NH4 limitation function for EM05 <0-1>	-	MacroPhyt5
LimNO3EM05	NO3 limitation function for EM05 <0-1>	-	MacroPhyt5
LimPO4EM05	PO4 limitation function for EM05 <0-1>	-	MacroPhyt5
LimNutEM05	nutrient limitation function for EM05 <0-1>	-	MacroPhyt5
LimCO2SM05	CO2 limitation function for SM05 <0-1>	-	MacroPhyt5
LimDLEM05	daylength limitation function for EM05 <0-1>	-	MacroPhyt5
LimDLSM05	daylength limitation function for SM05 <0-1>	-	MacroPhyt5
LimTEM05	temperature limitation function for EM05 <0-1>	-	MacroPhyt5
LimTSM05	temperature limitation function for SM05 <0-1>	-	MacroPhyt5
M_TotBiom	total biomass of DEB Mussel	gC	DEBGRZ_M
M_Biomass	total biomass conc of DEB Mussel	gC m-2 or m-3	DEBGRZ_M
M_TotAFDW	total dryweight of DEB Mussel	gAFDW	DEBGRZ_M
M_AFDW	total dryweight conc DEB Mussel	gAFDW m-2 or m-3	DEBGRZ_M
M_TotWW	total wetweight of DEB Mussel	gWW	DEBGRZ_M
M_WW	total wetweight conc DEB Mussel	gWW m-2 or m-3	DEBGRZ_M
M_WWwind	wetweight of individual DEB Mussel	gWW in1/d	DEBGRZ_M
M_Vind	struct volume of individual DEB Mussel	cm ³ in1/d	DEBGRZ_M
M_Eind	energy reserves of individual DEB Mussel	J in1/d	DEBGRZ_M
M_Rind	gonadal tissue of individual DEB Mussel	J in1/d	DEBGRZ_M
M_Length	length of individual DEB Mussel	cm	DEBGRZ_M
M_GSI	gonadal somatic index of DEB Mussel	-	DEBGRZ_M

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Table 14.1 – continued from previous page

Item	Description	Unit	Process
M_Escaled	scaled energy density of DEB Mussel	-	DEBGRZ_M
M_Harvst	total harvested biomass DEB Mussel	gWW 1/d	DEBGRZ_M
M_Spawn	total spawned biomass DEB Mussel	gWW 1/d	DEBGRZ_M
M_GrossGr	total gross growth DEB Mussel	gC m-2 1/d	DEBGRZ_M
M_NetGr	total net growth of DEB Mussel	gC m-2 1/d	DEBGRZ_M
M_Nind	nr of individuals of DEB Mussel	# m-2 1/d	DEBGRZ_M
M_Cbal	C balance DEB Mussel should be zero	gC m-3 1/d	DEBGRZ_M
M_Nbal	N balance DEB Mussel should be zero	gN m-3 1/d	DEBGRZ_M
M_Pbal	P balance DEB Mussel should be zero	gP m-3 1/d	DEBGRZ_M
Z_TotBiom	total biomass of DEB Zooplankton	gC	DEBGRZ_Z
Z_Bio	total biomass conc of DEB Zoopl	gC m-3 or m-2	DEBGRZ_Z
Z_TotAFDW	total dryweight of DEB Zooplankton	gAFDW	DEBGRZ_Z
Z_AFDW	total dryweight conc DEB Zoopl	gAFDW m-3 or m-2	DEBGRZ_Z
Z_TotWW	total wetweight of DEB Zooplankton	gWW	DEBGRZ_Z
Z_WW	total wetweight conc DEB Zoopl	gWW m-3 or m-2	DEBGRZ_Z
Z_WWind	wetweight of individual DEB Zooplankter	gWW in1/d	DEBGRZ_Z
Z_Vind	struct volume of individual DEB Zoopl	cm ³ in1/d	DEBGRZ_Z
Z_Eind	energy reserves of individual DEB Zoopl	J in1/d	DEBGRZ_Z
Z_Rind	gonadal tissue of individual DEB Zoopl	J in1/d	DEBGRZ_Z
Z_Length	length of individual DEB Zooplankter	cm	DEBGRZ_Z
Z_GSI	gonadal somatic index of DEB Zooplankton	-	DEBGRZ_Z
Z_Escaled	scaled energy density of DEB Zooplankton	-	DEBGRZ_Z
Z_Harvst	total harvested biomass DEB Zooplankton	gWW 1/d	DEBGRZ_Z
Z_Spawn	total spawned biomass DEB Zooplankton	gWW 1/d	DEBGRZ_Z
Z_GrossGr	total gross growth DEB Zooplankton	gC m-2 1/d	DEBGRZ_Z
Z_NetGr	total net growth of DEB Zooplankton	gC m-2 1/d	DEBGRZ_Z
Z_Nind	nr of individuals of DEB Zooplankton	# m-2 1/d	DEBGRZ_Z
Z_Cbal	C balance DEB Zoopl should be zero	gC m-3 1/d	DEBGRZ_Z
Z_Nbal	N balance DEB Zoopl should be zero	gN m-3 1/d	DEBGRZ_Z
Z_Pbal	P balance DEB Zoopl should be zero	gP m-3 1/d	DEBGRZ_Z
G3_TotBiom	total biomass of DEB Grazer3	gC	DEBGRZ_G3
G3_Biomass	total biomass conc of DEB Grazer3	gC m-3 or m-2	DEBGRZ_G3
G3_TotAFDW	total dryweight of DEB Grazer3	gAFDW	DEBGRZ_G3
G3_AFDW	total dryweight conc DEB Grazer3	gAFDW m-3 or m-2	DEBGRZ_G3
G3_TotWW	total wetweight of DEB Grazer3	gWW	DEBGRZ_G3
G3_WW	total wetweight conc DEB Grazer3	gWW m-3 or m-2	DEBGRZ_G3
G3_WWind	wetweight of individual DEB Grazer3	gWW in1/d	DEBGRZ_G3
G3_Vind	struct volume of individual DEB Grazer3	cm ³ in1/d	DEBGRZ_G3
G3_Eind	energy reserves of individual DEB Grazer3	J in1/d	DEBGRZ_G3
G3_Rind	gonadal tissue of individual DEB Grazer3	J in1/d	DEBGRZ_G3
G3_Length	length of individual DEB Grazer3	cm	DEBGRZ_G3
G3_GSI	gonadal somatic index of DEB Grazer3	-	DEBGRZ_G3
G3_Escaled	scaled energy density of DEB Grazer3	-	DEBGRZ_G3
G3_Harvst	total harvested biomass DEB Grazer3	gWW 1/d	DEBGRZ_G3
G3_Spawn	total spawned biomass DEB Grazer3	gWW 1/d	DEBGRZ_G3
G3_GrossGr	total gross growth DEB Grazer3	gC m-2 1/d	DEBGRZ_G3
G3_NetGr	total net growth of DEB Grazer3	gC m-2 1/d	DEBGRZ_G3
G3_Nind	nr of individuals of DEB Grazer3	# m-2 1/d	DEBGRZ_G3
G3_Cbal	C balance DEB Grazer3should be zero	gC m-3 1/d	DEBGRZ_G3
G3_Nbal	N balance DEB Grazer3should be zero	gN m-3 1/d	DEBGRZ_G3
G3_Pbal	P balance DEB Grazer3should be zero	gP m-3 1/d	DEBGRZ_G3
G4_TotBiom	total biomass of DEB Grazer4	gC	DEBGRZ_G4
G4_Biomass	total biomass conc of DEB Grazer4	gC m-3 or m-2	DEBGRZ_G4
G4_TotAFDW	total dryweight of DEB Grazer4	gAFDW	DEBGRZ_G4
G4_AFDW	total dryweight conc DEB Grazer4	gAFDW m-3 or m-2	DEBGRZ_G4
G4_TotWW	total wetweight of DEB Grazer4	gWW	DEBGRZ_G4
G4_WW	total wetweight conc DEB Grazer4	gWW m-3 or m-2	DEBGRZ_G4
G4_WWind	wetweight of individual DEB Grazer4	gWW in1/d	DEBGRZ_G4
G4_Vind	struct volume of individual DEB Grazer4	cm ³ in1/d	DEBGRZ_G4
G4_Eind	energy reserves of individual DEB Grazer4	J in1/d	DEBGRZ_G4
G4_Rind	gonadal tissue of individual DEB Grazer4	J in1/d	DEBGRZ_G4
G4_Length	length of individual DEB Grazer4	cm	DEBGRZ_G4
G4_GSI	gonadal somatic index of DEB Grazer4	-	DEBGRZ_G4
G4_Escaled	scaled energy density of DEB Grazer4	-	DEBGRZ_G4
G4_Harvst	total harvested biomass DEB Grazer4	gWW 1/d	DEBGRZ_G4
G4_Spawn	total spawned biomass DEB Grazer4	gWW 1/d	DEBGRZ_G4
G4_GrossGr	total gross growth DEB Grazer4	gC m-2 1/d	DEBGRZ_G4
G4_NetGr	total net growth of DEB Grazer4	gC m-2 1/d	DEBGRZ_G4

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Table 14.1 – continued from previous page

Item	Description	Unit	Process
G4_Nind	nr of individuals of DEB Grazer4	# m-2 1/d	DEBGRZ_G4
G4_Cbal	C balance DEB Grazer4 should be zero	gC m-3 1/d	DEBGRZ_G4
G4_Nbal	N balance DEB Grazer4 should be zero	gN m-3 1/d	DEBGRZ_G4
G4_Pbal	P balance DEB Grazer4 should be zero	gP m-3 1/d	DEBGRZ_G4
G5_TotBiom	total biomass of DEB Grazer5	gC	DEBGRZ_G5
G5_Biomass	total biomass conc of DEB Grazer5	gC m-3 or m-2	DEBGRZ_G5
G5_TotAFDW	total dryweight of DEB Grazer5	gAFDW	DEBGRZ_G5
G5_AFDW	total dryweight conc DEB Grazer5	gADW m-3 or m-2	DEBGRZ_G5
G5_TotWW	total wetweight of DEB Grazer5	gWW	DEBGRZ_G5
G5_WW	total wetweight conc DEB Grazer5	gWW m-3 or m-2	DEBGRZ_G5
G5_WWind	wetweight of individual DEB Grazer5	gWW in1/d	DEBGRZ_G5
G5_Vind	struct volume of individual DEB Grazer5	cm ³ in1/d	DEBGRZ_G5
G5_Eind	energy reserves of individual DEB Grazer5	J in1/d	DEBGRZ_G5
G5_Rind	gonadal tissue of individual DEB Grazer5	J in1/d	DEBGRZ_G5
G5_Length	length of individual DEB Grazer5	cm	DEBGRZ_G5
G5_GSI	gonadal somatic index of DEB Grazer5	-	DEBGRZ_G5
G5_Escaled	scaled energy density of DEB Grazer5	-	DEBGRZ_G5
G5_Harvst	total harvested biomass DEB Grazer5	gWW 1/d	DEBGRZ_G5
G5_Spawn	total spawned biomass DEB Grazer5	gWW 1/d	DEBGRZ_G5
G5_GrossGr	total gross growth DEB Grazer5	gC m-2 1/d	DEBGRZ_G5
G5_NetGr	total net growth of DEB Grazer5	gC m-2 1/d	DEBGRZ_G5
G5_Nind	nr of individuals of DEB Grazer5	# m-2 1/d	DEBGRZ_G5
G5_Cbal	C balance DEB Grazer5 should be zero	gC m-3 1/d	DEBGRZ_G5
G5_Nbal	N balance DEB Grazer5 should be zero	gN m-3 1/d	DEBGRZ_G5
G5_Pbal	P balance DEB Grazer5 should be zero	gP m-3 1/d	DEBGRZ_G5
DisH2SS1	hydrogen sulphide concentration H2S S1	(mol l)	SPECSUDS1
DisH2SS2	hydrogen sulphide concentration H2S S2	(mol l)	SPECSUDS2
FrIM1S2Pup	pick-up resuspension flux IM1 from S2	g/(m ² d)	Res_Pickup
fRIM2S2Pup	pick-up resuspension flux IM2 from S2	g/(m ² d)	Res_Pickup
fRIM3S2Pup	pick-up resuspension flux IM3 from S2	g/(m ² d)	Res_Pickup
fRTIMS2Pup	pick-up resuspension flux TIM from S2	g/(m ² d)	Res_Pickup
Pshields	resuspension probability S2 pick-up	-	Res_Pickup
SPMratioem	Flocculation ratio macro:micro empirical model	-	IM_Floceq
fSedAAPS2	sedimentation flux AAP towards S2	gP/(m ² d)	Sed_AAP
fSedCdS2	sedimentation flux Cd towards S2	gCd/(m ² d)	Sed_Cd
fSedCuS2	sedimentation flux Cu towards S2	gCu/(m ² d)	Sed_Cu
fSedZnS2	sedimentation flux Zn towards S2	gZn/(m ² d)	Sed_Zn
fSedHgS2	sedimentation flux Hg towards S2	gHg/(m ² d)	Sed_Hg
fSedNiS2	sedimentation flux Ni towards S2	gNi/(m ² d)	Sed_Ni
fSedPbS2	sedimentation flux Pb towards S2	gPb/(m ² d)	Sed_Pb
fSedCrS2	sedimentation flux Cr towards S2	gCr/(m ² d)	Sed_Cr
fSedAsS2	sedimentation flux As towards S2	gAs/(m ² d)	Sed_As
fSedVaS2	sedimentation flux Va towards S2	gVa/(m ² d)	Sed_Va

15 Exchange related process output not used by other processes

Table 15.1: Exchange related process output not used by other processes

Item	Description	Unit	Process
VxSedPON1	sedimentation velocity PON1	m/s	SedNPOC1
VxSedPOP1	sedimentation velocity POP1	m/s	SedNPOC1
VxSedPON2	sedimentation velocity PON2	m/s	SedNPOC2
VxSedPOP2	sedimentation velocity POP2	m/s	SedNPOC2
VxSedPON3	sedimentation velocity PON3	m/s	SedNPOC3
VxSedPOP3	sedimentation velocity POP3	m/s	SedNPOC3
VxSedPON4	sedimentation velocity PON4	m/s	SedNPOC4
VxSedPOP4	sedimentation velocity POP4	m/s	SedNPOC4
VxSedTIM	sedimentation velocity IM3	m/s	Sum_Sedim
VxSed0	sedimentation velocity	m/s	AdvTra
VxSedPOS1	sedimentation velocity POS1	m/s	SedNPOC1
VxSedPOS2	sedimentation velocity POS2	m/s	SedNPOC2
VxSedPOS3	sedimentation velocity POS3	m/s	SedNPOC3
VxSedPOS4	sedimentation velocity POS4	m/s	SedNPOC4

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