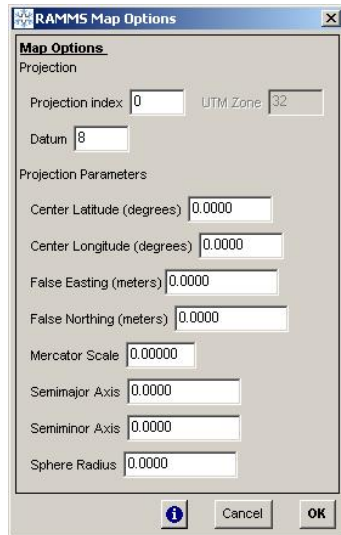


RAMMS::AVALANCHERAMMS::DEBRIS FLOW

RAMMS Google Earth Map Options

RAMMS needs some information about the map projection of your project region. This information is used to establish the coordinate conversion mechanism for mapping points from a plane on a globe's surface (converting our Cartesian (x, y) coordinates to longitude/latitude values). These longitude/latitude values are used to show RAMMS's results in Google Earth. The map options information is saved in the file `<project_dir>\logfiles\projection.log`.



The image shows a screenshot of the "RAMMS Map Options" dialog box. It contains several input fields for map projection parameters. The "Projection" section includes "Projection index" (0), "UTM Zone" (32), and "Datum" (8). The "Projection Parameters" section includes "Center Latitude (degrees)" (0.0000), "Center Longitude (degrees)" (0.0000), "False Easting (meters)" (0.0000), "False Northing (meters)" (0.0000), "Mercator Scale" (0.00000), "Semimajor Axis" (0.0000), "Semiminor Axis" (0.0000), and "Sphere Radius" (0.0000). At the bottom are "Cancel" and "OK" buttons, along with an information icon.

Section	Parameter	Value
Projection	Projection index	0
	UTM Zone	32
	Datum	8
Projection Parameters	Center Latitude (degrees)	0.0000
	Center Longitude (degrees)	0.0000
	False Easting (meters)	0.0000
	False Northing (meters)	0.0000
	Mercator Scale	0.00000
	Semimajor Axis	0.0000
	Semiminor Axis	0.0000
	Sphere Radius	0.0000

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Projection index

Set this parameter to a projection index. **Choose an index of 0 for the Swiss Grid!**

#	Projection Name
1	Stereographic
2	Orthographic
3	Lambert Conic
4	Lambert Azimuthal
5	Gnomonic
6	Azimuthal Equidistant
7	Satellite
8	Cylindrical
9	Mercator
10	Mollweide
11	Sinusoidal
12	Aitoff
13	Hammer Aitoff
14	Albers Equal Area Conic
15	Transverse Mercator
16	Miller Cylindrical
17	Robinson
18	Lambert Ellipsoid Conic
19	Goodes Homolosine
101	UTM
102	State Plane
103	Albers Equal Area
104	Lambert Conformal Conic
105	Mercator
106	Polar Stereographic
107	Polyconic
108	Equidistant Conic A
208	Equidistant Conic B
109	Transverse Mercator
110	Stereographic
111	Lambert Azimuthal
112	Azimuthal
113	Gnomonic
114	Orthographic
115	Near Side Perspective
116	Sinusoidal
117	Equirectangular
118	Miller Cylindrical
119	Van der Grinten
120	Hotine Oblique Mercator A
220	Hotine Oblique Mercator B
121	Robinson
122	Space Oblique Mercator A
222	Space Oblique Mercator B
123	Alaska Conformal
124	Interrupted Goode
125	Mollweide
126	Interrupted Mollweide
127	Hammer
128	Wagner IV
129	Wagner VII
130	Oblated Equal Area
131	Integerized Sinusoidal

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DATUM

Set this keyword to an integer code (corresponding to the name of the datum to use for the ellipsoid, see below). The default value depends upon the projection selected, but is either the Clarke 1866 ellipsoid (datum 0), or a sphere of radius 6370.997 km (datum 19).

The following datums (or spheroids) are available:

Index	Name	Semimajor axis (m)	Seminor axis (m)
0	Clarke 1866	6378206.4	6356583.8
1	Clarke 1880	6378249.145	6356514.86955
2	Bessel	6377397.155	6356078.96284
3	International 1967	6378157.5	6356772.2
4	International 1909	6378388.0	6356911.94613
5	WGS 72	6378135.0	6356750.519915
6	Everest	6377276.3452	6356075.4133
7	WGS 66	6378145.0	6356759.769356
8	GRS 1980/WGS 84	6378137.0	6356752.31414
9	Airy	6377563.396	6356256.91
10	Modified Everest	6377304.063	6356103.039
11	Modified Airy	6377340.189	6356034.448
12	Walbeck	6378137.0	6356752.314245
13	Southeast Asia	6378155.0	6356773.3205
14	Australian National	6378160.0	6356774.719
15	Krassovsky	6378245.0	6356863.0188
16	Hough	6378270.0	6356794.343479
17	Mercury 1960	6378166.0	6356784.283666
18	Modified Mercury 1968	6378150.0	6356768.337303
19	Sphere	6370997.0	6370997.0

Projection Parameters

CENTER_LATITUDE

Set this keyword to the latitude of the point on the earth's surface to be mapped to the center of the projection plane. Latitude is measured in degrees North of the equator and must be in the range: -90 to +90. The default value is zero.

Note: For the Hotine Oblique Mercator projection, the center latitude should not be set to 0, +90, or -90

CENTER_LONGITUDE

Set this keyword to the longitude of the point on the earth's surface to be mapped to the center of the map projection. Longitude is measured in degrees east of the Greenwich meridian and must be in the range: -360 to +360. The default value is zero.

FALSE_EASTING

Set this keyword to the false easting value (in meters) to be added to each x coordinate for the forward transform, or subtracted from each x coordinate for the inverse transform.

FALSE_NORTHING

Set this keyword to the false northing value (in meters) to be added to each y coordinate for the forward transform, or subtracted from each y coordinate for the inverse transform.

MERCATOR_SCALE

Set this keyword to the scale factor at the central meridian (Transverse Mercator projection) or the center of the projection (Hotine Oblique Mercator projection). For the Transverse Mercator projection, the default scale is 0.9996.

SEMIMAJOR_AXIS

Set this keyword to the length (in meters) of the semimajor axis of the reference ellipsoid. The default is either the Clarke 1866 datum (6378206.4 m) or the Sphere radius (6370997 m), depending upon the projection.

SEMIMINOR_AXIS

Set this keyword to the length (in meters) of the semiminor axis of the reference ellipsoid. The default is either the Clarke 1866 datum (6356583.8 m) or the Sphere radius (6370997 m), depending upon the projection.

SPHERE_RADIUS

Set this keyword to the radius (in meters) of the reference sphere. The default is 6370997 m.

UTM_ZONE

Set this keyword to an integer giving the zone for the UTM projection (this field is only active, if the projection index is equal to 101 = UTM).

Note1: For the UTM projection, you may also use the CENTER_LONGITUDE and CENTER_LATITUDE keywords to set the zone. Internally, the ZONE value will be computed from the longitude and latitude.

Note2: For UTM, the range is -60 to -1 and 1 to 60, where negative numbers indicate the southern hemisphere.