

<b>vandg</b>	van der Grinten
<b>laea</b>	Lambert Azimuthal Equal Area
<b>mbtfpq</b>	McBryde-Thomas Flat-Polar Quartic
<b>sinu</b>	Sinusoidal
<b>spstere</b>	South-Polar Stereographic
<b>lcc</b>	Lambert Conformal
<b>npaeqd</b>	North-Polar Azimuthal Equidistant
<b>eqdc</b>	Equidistant Conic
<b>cyl</b>	Cylindrical Equidistant
<b>aea</b>	Albers Equal Area
<b>spaeqd</b>	South-Polar Azimuthal Equidistant
<b>ortho</b>	Orthographic
<b>cass</b>	Cassini-Soldner
<b>splaea</b>	South-Polar Lambert Azimuthal
<b>robin</b>	Robinson

*projection* can be followed by a comma-separated list of option-value pairs *projoptions*. Supported projection options are:

<b>boundinglat</b>	Bounding latitude for polar projections.
<b>lat_0</b>	Central latitude.
<b>lat_1</b>	First standard parallel.
<b>lat_2</b>	Second standard parallel.
<b>lat_ts</b>	Latitude of true scale.
<b>lon_1</b>	Longitude of one of the two points on the projection centerline for oblique mercator.
<b>lon_2</b>	Longitude of one of the two points on the projection centerline for oblique mercator.

Longitude and latitude have to be valid positive decimal numbers followed by E or W, or S or N literal (respectively) to indicate direction.

Use -p help to get a list of available projections.

**-r** radius Interpolation radius in pixels. In profile products radius specifies vertical extent which a data point is mapped onto. If such vertical regions of two data points overlap value is determined by averaging with a weight coefficient of 1 over distance squared. The same holds for swath products, but here radius specifies a square. If radius is too low with respect to **dpi** data will be sparsely distributed on the image. Default is 3 for swath swath and a sensible value calculated from resolution for profile products.

**-v** Enable verbose mode.

**-V** Print version information and exit.

**-x** extent Horizontal region to be plotted. extent can be specified in a number of formats depending on the plot type.

For profile and layer products extent can either be specified by rays or by a time interval. In the first case it takes the form from..*to* where from and *to* are the first and the last ray (resp.) to be plotted. In the latter case, extent can be an absolute time interval in the form hour:min[:sec]..*hour*:min[:sec]. or a relative time interval in the form +|-[:hour:]min:sec..*+*|-[:hour:]min:sec.

For swath products extent can be specified by scanlines (along-track) and samples (across-track), or by geographical coordinates. In the first case extent takes the form from..*to*,from..*to* where the first term is the first and the last scanline to be plotted, and the second term is the first and the last sample to be plotted. In the latter case extent takes the form lon(E|W)..*lon*(E|W),lat(S|N)..*lat*(S|N) where lon, lat are numbers (in degrees) and E, W, S, N are literals, (A|B) means either A or B.

**-y** extent Vertical extent of CloudSat and CALIPSO profiles in meters in the form from..*to*.

**-z** options Miscellaneous options that modify plot formatting. options is a list of comma separated key=value pairs with no spaces in between. Supported general options are:

<b>cbfontsize</b>	color bar font size (defaults to 8)
<b>cbspacing</b>	spacing between the axes and color bar (defaults to 0.4)
<b>drawelev (default to 1)</b>	draw surface elevation line (CALIPSO)
<b>elevlw (defaults to 0.5)</b>	surface elevation line width
<b>elevcolor (defaults to #FF0000)</b>	surface elevation line color
<b>fontsize</b>	font size (defaults to 10)
<b>padding</b>	padding around the axes and color bar in inches (defaults to 1)
<b>plotheight</b>	plot height in inches (defaults to 6)
<b>title</b>	figure title (set automatically by default)

Supported options for orbit plots are:

<b>coastlinescolor</b>	coastlines color (defaults to #46396D)
<b>coastlineslw</b>	coastlines line width (defaults to 0.4)
<b>countriescolor</b>	countries outlines color (defaults to #46396D)
<b>countrieslw</b>	countries outlines line width (defaults to 0.2)
<b>drawcoastlines</b>	draw coastlines (defaults to 1)