

NAME

**ccplot** — CloudSat and CALIPSO data plotting tool

SYNOPSIS

**ccplot** [-a *ratio*] [-c *cmapfile*] [-d *dpi*] [-m *band*] [-o *outfile*] [-p *projection[:projoptions]*] on [-r *radius*] [-v] [-x *extent*] [-y *extent*] [-z *options*] *type file ...*  
**ccplot -i file**  
**ccplot -h**  
**ccplot -V**

DESCRIPTION

**ccplot** is a tool that produces 2D plots of data stored in CloudSat, CALIPSO and MODIS HDF files.

The plot *type* can be one of:

<b>cloudsat-reflec</b>	CloudSat Reflectivity Factor
<b>calipso532</b>	CALIPSO L1B Total Attenuated Backscatter 532nm
<b>calipso532p</b>	CALIPSO L1B Perpendicular Attenuated Backscatter 532nm
<b>calipso1064</b>	CALIPSO L1B Attenuated Backscatter 1064nm
<b>calipso-cratio</b>	CALIPSO L1B Attenuated Color Ratio 1064nm/532nm
<b>calipso-dratio</b>	CALIPSO L1B Depolarization Ratio
<b>calipso532-layer</b>	CALIPSO L2 Integrated Attenuated Backscatter 532nm
<b>calipso1064-layer</b>	CALIPSO L2 Integrated Attenuated Backscatter 1064nm
<b>calipso-cratio-layer</b>	CALIPSO L2 Integrated Attenuated Total Color Ratio 1064nm/532nm
<b>calipso-dratio-layer</b>	CALIPSO L2 Integrated Volume Depolarization Ratio
<b>calipso-temperature-layer</b>	CALIPSO L2 Midlayer Temperature
<b>orbit</b>	map projection of CALIPSO and CloudSat trajectory, and Aqua MODIS radiance or reflectance swath depending on files supplied
<b>orbit-clipped</b>	MODIS-region-clipped map projection of CALIPSO and CloudSat trajectory, and Aqua MODIS radiance or reflectance swath depending on files supplied

The options are as follows:

- a *ratio*** Aspect ratio of profile and layer products in km horizontal per km vertical. Defaults to 14.0.
- c *cmapfile*** Path to a cmap file defining a colormap *boundaries*, colorbar *ticks* and *colors*. This can be a filename relative to any path defined by the CCPLOT\_CMAP\_PATH environment variable. Such paths take precedence over the current working directory, unless *cmapfile* is an absolute path or begins with ./ or ../. See the example cmap files that are distributed with **ccplot** for information about the format.
- d *dpi*** DPI of *outfile* if a raster image is to be output.
- m *band*** MODIS band specifier in the form *r#* for reflective bands and *x#* for radiation bands, where *#* is the band number.
- o *outfile*** Output file. Format is determined by extension Supported formats are SVG (.svg), PNG (.png), PDF (.pdf), EPS (.eps) and PS (.ps). Defaults to ccplot.png.
- p *projection[:projoptions]*** on *projection* specifies the mapping projection for orbit plots. Supported projection types are:

<b>aeqd</b>	Azimuthal Equidistant
<b>poly</b>	Polyconic
<b>gnom</b>	Gnomonic
<b>moll</b>	Mollweide
<b>tmerc</b>	Transverse Mercator
<b>nplaea</b>	North-Polar Lambert Azimuthal
<b>gall</b>	Gall Stereographic Cylindrical
<b>mill</b>	Miller Cylindrical
<b>merc</b>	Mercator
<b>stere</b>	Stereographic
<b>npstere</b>	North-Polar Stereographic