
Subject: How to de-swivel a satellite projection?
Posted by [newman](#) on Fri, 05 Apr 1996 08:00:00 GMT
[View Forum Message](#) <> [Reply to Message](#)

What is the proper way (i.e., one that works) to de-rotate a satellite projection? When using MAP_SET, I supply the tilt and swivel values in the SAT_P variable, and this leads to an "up is up" projection. I would like to generate a "North is up" projection by de-rotating by the swivel value. I have tried supplying this value as the Rot variable, but then CONVERT_COORD returns values out of range (1e12).

Here are two examples:

PRO NO_BOMB

; Look at Boston from high above Los Angeles.
; Tilt and swivel create "up is up" projection.

WINDOW, XSIZE=512, YSIZE=512

MAP_SET, 33, -118, 0, sat_p=[2, 27.1144, 18.715], \$
/grid, /continents, /satellite, /isotropic, \$
/latdel, /lonel, /label, \$
limit=[42, -78, 45, -72, 42, -56, 40, -74]

p = CONVERT_COORD(256, 256, /device, /to_data)

PRINT, p

END

PRO YES_BOMB

; Look at Boston from high above Los Angeles.
; Derotate to create "North is up" projection.

WINDOW, XSIZE=512, YSIZE=512

; derotate by swivel value = 18.715
MAP_SET, 33, -118, -18.715, sat_p=[2, 27.1144, 18.715], \$
/grid, /continents, /satellite, /isotropic, \$
/latdel, /lonel, /label, \$
limit=[42, -78, 45, -72, 42, -56, 40, -74]

p = CONVERT_COORD(256, 256, /device, /to_data)

PRINT, p

END

Any help much appreciated

--

=====

Art Newman -

[not a spokesman for] Hughes Aircraft Company

take your pick: newman@dune.es.hac.com

amnewman@ccgate.hac.com
