Subject: Problems with map_set
Posted by Harald Frey on Thu, 06 Mar 1997 08:00:00 GMT

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Hi,

with IDL 4.0.1 I want to produce a map of the Antarctic region with the
geomagnetic pole in the center of my plot. If I try

 map_set,-74.,126.,/stereo,/continents,limit=[-90.,-180.,-40. ,180.]
plots,126.,-74.,psym=2

I get the map, but the center is not the geomagnetic pole. The 8-element
vector
for limit does also not work, because for instance the right limit data

 map_set,-74.,120.,/grid,/conti,limit=[-60,60,-49,120,-60,180 ,-80,300]
plots,126.,-74.,psym=2

give the map with the geomagnetic pole in the center, but all latitudes
higher
than the -80 degrees and all the longitudes between 300 degrees and 60
degrees
are not plotted. I can avoid this only if one of the limit latitudes is
set to
-90 degrees , but then the geomagnetic pole is not in the center
anymore.

Without any limit data I get the complete southern hemisphere and
Antarctica is
much too small.

Another point is, try:

 map_set,-90.,120.,/grid,/azim,/conti,limit=[-90,-180,-60,180]
and now
 map_set,-89.9,120.,/grid,/azim,/conti,limit=[-90,-180,-60,18 0]
and now
 map_set,-89.9,0.,/grid,/azim,/conti,limit=[-90,-180,-60,180]

Why does the map change so dramatically when I change my center-latitude
from
-90.0 to -89.9? And what happens when the longitude is set to 0 degrees?

Any comments are welcome.

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