
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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