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Subject: Re: [Q] PLOTS/POLYFILL clipping in map  
Posted by [Robert.M.Candey](#) on Thu, 01 Aug 1996 07:00:00 GMT  
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In article  
<Pine.SOL.3.91.960801125009.23811K-100000@Cacofonix.atm.ch.cam.ac.uk>,  
Iarla Kilbane-Dawe <iarla@atm.ch.cam.ac.uk> wrote:

> Hello,  
>  
> does anyone have any experience of using the clip keyword with  
> plot and polyfill when a map projection is in use which has been  
> restricted using the limits keyword? We don't seem to be able to get  
> things to plot inside the chosen region if any of the vector lies outside  
> it. Equally, we haven't been able to get the routines to clip filled  
> polygons at the edge of the region.  
>  
> Does anyone have any advice please?  
>  
> Many thanks in advance.  
>  
> Iarla.

I haven't found the clip keyword to work either, I think since the edge of a polygon that goes over the side of the plot on one side is often still in bounds on the other side. I use the following to check each polygon (in this case using triangles returned from triangulate) and not plot if the polygon is large in normalized coordinates:

```
pAll = convert_coord(Lon, Lat, /data, /to_normal)
pLon = pAll(0,*) & pLat = pAll(1,*)
for i=0L,n_elements(triangles(0,*))-1 do begin
  tri1 = triangles(*,i)
  Lon3 = Lon(tri1) & Lat3 = Lat(tri1)
  Zb1 = Zb(tri1(0))
  if (total(abs(pLon(tri1)-shift(pLon(tri1),1))) lt 0.1) and $
    (total(abs(pLat(tri1)-shift(pLat(tri1),1))) lt 0.1) then $
    polyfill, Lon3, Lat3, color=Zb1(0), noclip=0
endfor
```

This is for full polar plots and may not be the solution for restricted regions.

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Robert.M.Candey@gssc.nasa.gov  
NASA Goddard Space Flight Center, Code 632  
Greenbelt, MD 20771 USA 1-301-286-6707

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