
Subject: Re: Land Mask data set available? (in lat and lon)
Posted by [Robert Stockwell](#) on Mon, 11 Feb 2002 13:20:08 GMT
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Klaus Scipal wrote:

```
> Hi Bob
>
> I am not quite sure if I am totally off, but why don't use following simple
> code to determine if a point is on land or not (I once got it from David and
> it works excellently for my purposes, however I have to admit that its
> resolution is rather coarse).
>
>
> determine_land, lon, lat, land
>
> ; Fill window with map continents. Water = 0, Land = 1.
>
> Window, XSize=3600, YSize=1800, /Free, /Pixmap
> Map_Set, /Cylindrical, 0, 0, Position=[0,0,1,1], /NoBorder, Color=0L
>
> Map_Continents, /Fill, /Hires, Color=1L
>
> image = TVRD()
>
> ; Convert location to device coordinates.
> location = Convert_Coord(lon, lat, /Data, /To_Device)
> land=reform(image[0, > location[0,*] < 3599., 0, > location[1,*] < 1799.])
>
> ; Delete window.
> WDelete, !D.Window
>
> END
>
>
> Klaus
>
```

Thanks Klaus! Very nice solution.

It seems that it would do a pretty good job.

Perhaps adding the use of /coasts in the map_continents would be useful to get the offshore islands (especially important for the west coast of the southern tip of south america).

(There do seem to be a couple of errant lines around antartica however when one uses /coasts.)

Thanks again!

Cheers,
bob
