Subject: Re: Land Mask data set available? (in lat and lon) Posted by Kelly Dean on Fri, 08 Feb 2002 19:24:39 GMT

View Forum Message <> Reply to Message

Try the 1km Global Land Cover Characteristics Database from USGS (usgs2_0g.img.gz). Water bodies (including lakes) have the byte value of 16, but this should be easy to convert to the desired 1's and 0's.

http://edcdaac.usgs.gov/glcc/globdoc2 0.html

It is easy to compute the navigation --

```
ele = ( -179.99583333333334 - lon ) / 0.008333333333333
```

GTOPO30 is a good source for land/sea mask, but remember, these are 33 separate tiles. With 6 tiles covering your region of interest. However, I do recall there is one separate tile covering Antarctic in a different projection. The Global Land Cover Database is one big binary file.

Kelly Dean CSU/CIRA

Robert Stockwell wrote:

- > Greetings All, > I was just about to assimilate the land mask info > into IDL, but for my purposes I need the land mask > as a function of lat and lon (so as to branch my > algorithm on whether or not a data point falls on land), > rather then merely an image. > > Thus I want to have something like > landmask = int(nx,ny) > lon = float(nx,ny) > lat = float(nx,ny) > > that I can crunch into an array for my lat, lon sampling > and then directly compare my data with the landmask value. > (a simple water = 0, land = 1 mask is fine for me) > > I am interested in the southern hemisphere > (frinstance 40S to 80 south), and 1/2 degree by 1/2 degree
- > or better.

> Does someone have that in IDL?

> (or rather, a data format that can be easily digested

```
> into IDL)
>
> Cheers,
> bob stockwell
> PS
>
> I am about to use the land=sea mask data from:
> http://edcdaac.usgs.gov/1KM/land_sea_mask.html
> that i found snooping through google. It looks like
> I'll have to grab their image which appears to be in
> a km by km sampling, and calculate the inverse transform
> from their map projection into lat and lon (ugh).
>
> Or perhaps I can use the map commands i IDL and
> create an image, grab the image, convert from pixels to
> lat and lon.
> I am hoping there is an easier way, or at least a
> "already done" way
```