Subject: Re: Land Mask data set available? (in lat and lon) Posted by Robert Stockwell on Fri, 08 Feb 2002 15:01:18 GMT

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Mark Hadfield wrote:

> "Robert Stockwell" <stockwell@co-ra.com> wrote in message > news:3C62F3C6.3090502@co-ra.com... > >> ... >> 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. >> ... >> 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). >> ... >> Does someone have that in IDL? >> (or rather, a data format that can be easily digested >> into IDL) >> > Thanks for the link to the land-sea mask data. I wasn't aware of that one. I > agree that it might be awkward inverting their map projection. There's been > some discussion on the group in the past about accessing IDL's built-in > projections. A Google search might turn up something useful. > > I don't have a land-mask data set, but I do have a routine that calculates a > land mask (in fact a land fraction) for a specified grid using vector shoreline data from the GSHHS data set: > http://www.ngdc.noaa.gov/mgg/shorelines/gshhs.html > > Getting this working on your system would be non-trivial, but if you want to > try I'll be glad to help.

Thanks for the info Mark. I took a look at the webpage, and it looks promising. Is your routine in entirely in IDL, partly in IDL, or C. (do you use the C code to read the data that they provide?)

Andrew Cool also suggested using GTOPO30 DEM data, with which he produced a great looking jpg of a landmask. This seems to perhaps be in a better form to extract the lat and lon data that I require than the link I first mentioned (above), since they appear to be in 30 arc second spacing, rather than in 1km spacing.

http://edcdaac.usgs.gov/gtopo30/gtopo30.html

So that actaully sounds pretty good. I'll still have to figure out how to read the files, perhaps Andrew can help with that.

Cheers, bob

- > ---
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