Subject: Re: Land Mask data set available? (in lat and lon)
Posted by Mark Hadfield on Thu, 07 Feb 2002 22:47:04 GMT
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"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.

Mark Hadfield
m.hadfield@niwa.co.nz http://katipo.niwa.co.nz/~hadfield
National Institute for Water and Atmospheric Research

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...
>
>> ...
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> 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

> ---
> Mark Hadfield
> m.hadfield@niwa.co.nz http://katipo.niwa.co.nz/~hadfield
> National Institute for Water and Atmospheric Research
>
>
>
>

Subject: Re: Land Mask data set available? (in lat and lon)
Posted by Mark Hadfield on Sun, 10 Feb 2002 21:02:52 GMT
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"Robert Stockwell" <rgs1967@hotmail.com> wrote in message
news:3C63E83E.8000700@hotmail.com...
> Mark Hadfield wrote:
>
>> 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:
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>> http://www.ngdc.noaa.gov/mgg/shorelines/gshhs.html
>
>
> 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?)

It appears that there are other datasets more suitable for your
purposes, but for the record my GSHHS routines are written entirely in
IDL.

--

Mark Hadfield
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