
Subject: Re: Coastal boundaries over sat data
Posted by [Lars\[1\]](#) on Thu, 17 Aug 2000 07:00:00 GMT
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Daniel Peduzzi wrote:

>
> Thanks...that is a handy program, and I've used it before in the past.
> I'm not sure that it can be used for what I want to do, though, since
> I don't want to remap the data...only display it in its *native*
> projection with coastal boundaries.
>
> In other words, if I have 1000 scanlines of DMSP data (1465 elements
> wide), and accompanying 1465x1000 lat/lon arrays, I'd like to display
> a 1465x1000 image overlaid with coastlines.
>
> Did I miss something?

I think the DMSP *native* projection is not so simple as a
standard projection (e.g. polar stereographic) due to its
conical scan geometrie.

But you could solve your problem by

I. gridding the data ;-)

or

II. take a coastline data set as (lat1,lon1) pairs and search
in the DMSP data set the (lat1,lon1) pairs with the smallest
distance $d=(lat1-lat2)^2+(lon1-lon2)^2$. Then you have found the
pixels, which belong to the coastline.

Regards,

Lars

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