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Subject: Re: Coastal boundaries over sat data

Posted by [Sylvain Carette](#) on Wed, 30 Aug 2000 07:00:00 GMT

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<!doctype html public "-//w3c//dtd html 4.0 transitional//en">

<html>

<tt>Interesting thread</tt><tt></tt>

<p><tt>There is a small application with source code (in Delphy - kind of OO Pascal)</tt>

<br>&nbsp;<a href="http://www.davidtaylor.freeserve.co.uk/software/hrpt.htm">HRPT programs - from David Taylor, Edinburgh</a>

<br><tt>It doesnt display continent outline but it can "rectify" the image which might be the projection you are looking for. The code is well commented and readable even for a non-pascal programmer (like me - but I'm used to C so its similar).</tt><tt></tt>

<p><tt>It may or may not be pertinent for your need since it remap the data - not a real projection, a rectification or an unwrapping of the data.</tt>

<br><tt>On my side, I need to use that kind of rectification applied along the path of the satellite to build continuous "ribbon" of avhrr data. Maybe this could be somewhat applied to your case; instead of applying a projection on the image array, you proccess each line separately as is it were a whole image and reset the projection for each line and appending all the lines together.</tt><tt></tt>

<p><tt>If the only thing you want is to overlay the continent outline over the "natural" data, I think I would consider the problem as applying a \*warping\* to the outline derivated from the lat/lon values contained in the data instead of using map projection.</tt><tt></tt>

<p><tt>Hope this could be of some help</tt><tt></tt>

<p><tt>Sylvain Carette</tt>

<br><tt>VRML designer-composer</tt><tt></tt>

<p><tt>Ben Marriage wrote:</tt>

<blockquote TYPE=CITE><tt>Daniel Peduzzi wrote:</tt>

<br><tt>></tt><tt></tt>

<p><tt>> Thanks...that is a handy program, and I've used it before in the past.</tt>

<br><tt>> I'm not sure that it can be used for what I want to do, though, since</tt>

<br><tt>> I don't want to remap the data...only display it in its \*native\*</tt>

<br><tt>> projection with coastal boundaries.</tt>

<br><tt>></tt>

<br><tt>> In other words, if I have 1000 scanlines of DMSP data (1465 elements</tt><br><tt>> wide), and accompanying 1465x1000 lat/lon arrays, I'd like to display</tt>

<br><tt>> a 1465x1000 image overlaid with coastlines.</tt><tt></tt>

<p><tt>I did something like this to check if an AVHRR pixel was over land or</tt>

<br><tt>not.</tt>

<br><tt>I'll post the code here in case you are interested. I had to create



```
<p><tt>flag = mask[xsub,ysub]</tt><tt></tt></p>
<p><tt>wdelete,newwin</tt>
<br><tt>wset,oldwin</tt><tt></tt>
<p><tt>return,flag</tt><tt></tt>
<p><tt>end</tt>
<br><tt> ;=====
===== </tt></blockquote>
<tt></tt></html>
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