
Subject: Re: Best routines for mapping satellite images
Posted by [Steve Super](#) on Thu, 30 Oct 2014 14:07:02 GMT
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On Wednesday, October 29, 2014 5:45:19 PM UTC-4, David Fanning wrote:

> Steve Super writes:

>
>> Sorry I missed all these replies, I put this problem aside for while and forgot to check back.

>>
>> To answer some of the questions:

>>
>> -Yes the coordinates are in degrees and are not evenly spaced (non-gridded data).

>> -The lat/lon arrays have the same dimensions as the image data.

>>
>> The data I am working with is NPP VIIRS M-band data, which I am attempting to use to create a true-color image. My desired outcome is to have a warped image that retains the original dimensions of the data. I want to then focus on a subset of the image and highlight pixels of interest, as well as plot the path of CALIPSO overpass, which is based on lat/lon as well.

>>
>> So far the closest I have come to what I believe is a good result was done using the 'map_set' and 'map_patch' procedures. However, in this case boundaries and coastlines do not quite match up, and there is no way to specify that the image dimensions remain the same as the input array.

>>
>> Thanks for the comments and help.

>
> I've had reasonably good luck using cgWarpToMap using data like this. It
> uses either GridData or Interpolation (much faster!) to grid the data,
> depending upon the input data.

>
> <http://www.idlcoyote.com/idldoc/cg/cgwarptomap.html>
> http://www.idlcoyote.com/code_tips/usegriddata.html
> http://www.idlcoyote.com/code_tips/griddata.html

>
> Cheers,

>
> David

>
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>
> Sepore ma de ni thue. ("Perhaps thou speakest truth.")

David,

Thanks for the reply. I have attempted to use cgWarpToMap previously, but while the dimensions are the same as the original image, for some reason the result is a zeroed array.
