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Subject: Re: Band+Lat+Lon = georeferenced file?

Posted by [liamgumley](#) on Mon, 23 Feb 2009 21:49:24 GMT

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On Feb 23, 3:28 pm, wilfrid <wilfrid\_schroe...@hotmail.com> wrote:

> Time and again I come back to the same situation where I have a bunch  
> of satellite images with lat&lon values for each pixel and I need to  
> create ENVI standard files (i.e., data file+header) or some other easy  
> to handle file (e.g. geotiff) that I can manipulate with GIS  
> softwares. My input data correspond to at-satellite data (swath data)  
> - and it can come from geostationary or polar orbiters. Using  
> ENVI\_REGISTER\_DOIT I get relatively large errors when I know the  
> pixels are pretty well navigated (I'm using MODIS data). I assume the  
> problem might be linked to my use of ENVI\_PROJ\_CREATE which I have set  
> to (/geographic). Using Imagemap (written by Liam Gumley some years  
> ago) I managed to display the data just fine (map outlines properly  
> located) but I could not create a file with projection information out  
> of that. This has consumed my weekend and now I feel like asking  
> around as I am pretty sure this is one of those basic operations many  
> of you might have attempted before.

If you are working with MODIS Level 1B data, then MRTSwath is a good solution:

<http://igskmncnwb001.cr.usgs.gov/landdaac/tools/mrtswath/>

MRTSwath will resample MODIS Level 1B data to a variety of standard map projections, and store the result in a GeoTIFF file.

If you are working with other polar orbiter (e.g., AVHRR) or geostationary image data, then I don't know of a freely available solution.

Cheers,

Liam.

Practical IDL Programming

<http://www.gumley.com/>

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