
Subject: Resampling large satellite (AVHRR) images to a grid

Posted by [Liam Gumley](#) on Tue, 09 Jul 1996 07:00:00 GMT

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Hi folks,

I have the following data in 1-D arrays for an AVHRR scene:

latitude

longitude

brightness temperature

I can display the data as an image in satellite coordinates with no problems (just REFORM the brightness temperature array).

However, I don't know of an efficient way to resample the image to a lat/lon grid (say equidistant cylindrical). TRIANGULATE and REGRID are far too slow (and are probably overkill) when used on every lat/lon point. I have tried a few things with POLYWARP and POLY_2D but have not come up with a satisfactory method yet.

Has anyone done something like this? I am looking for a *fast* algorithm that will handle large AVHRR scenes (say 2048x208 pixels).

Cheers.

Liam.
