Subject: Re: Resampling large satellite (AVHRR) images to a grid Posted by Hermann Mannstein on Thu, 11 Jul 1996 07:00:00 GMT View Forum Message <> Reply to Message

Liam Gumley wrote: > Hi folks. > I have the following data in 1-D arrays for an AVHRR scene: > > latitude > lonaitude > 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). Hallo Liam, try to use the 'convert coord' routine. Set your map and then p = convert coord(lon, lat, /data, /to device) image=fltarr(!d.x_size,!d.ysize) and then $image(ps(0,*),ps(1,*)) = brightness_temperature$ to fill holes use the dilate operator. Regards, Hermann Mannstein Tel.: +49 8153 28-2503 Institut fuer Physik der Atmosphaere or -2558 DLR - Oberpfaffenhofen Fax.: +49 8153 28-1841 Postfach 1116 mailto:H.Mannstein@dlr.de \ D-82230 Wessling \ 0 http://www.op.dlr.de/~pa64 \