Subject: Re: Locate pixels that fall within other pixel-geo search
Posted by Maxwell Peck on Fri, 10 Sep 2010 08:28:50 GMT

On Sep 10, 6:07 am, Snow53 <jennifer_wa...@hotmail.com> wrote:
> Hi,
>
> I have two images with slightly different dimensions, but the same
> projection. Image 1 has coarse resolution. Image 2 has fine
> resolution.
>
> For each coarse pixel in Image 1, I need to find all fine resolution
> pixels that fall within that pixel (based on the condition that they
> fall within the same geographic extent of that coarse pixel).
>
> I'm reading in the file with envi_open_file, so the files should have
> all the geographic info needed.
>
> Has anyone done something similar? Could anyone suggest a good way to
> do this selection?
>
> Thanks!

There's probably a few ways to do this depending on the exact dataset
(especially the relative resolution differences). One way would be to
obtain the corner coordinates of the pixel in your low resolution
image then use envi_convert_file_coordinates to convert these to
corner pixels in the high resolution image. Then use envi_get_data on
the subsetted dimensions. Be careful with adding/taking 0.5 of a pixel
when appropriate.

Max