Subject: Re: Interpolating/gridding field reflectance spectra
Posted by loebasboy on Fri, 20 Feb 2009 10:55:24 GMT
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On 19 feb, 23:55, Christian Haselwimmer <christ...@haselwimmer.co.uk>
wrote:
> I was wondering if anybody had some advice as regards the gridding/
> interpolation of point data within ENVI/IDL? I have a number of
> spectral reflectance measurements that are reasonably regularly spaced
> over a field area I am investigating. I would like to produce an
> interpolated grid from these point measurements to in effect produce a
> hyperspectral image that I can then apply processing to and relate to
> airborne/satellite data.
>
> For each point I have a GPS location and a reflectance spectra. Also,
> the point measurement is actually a spot of around 0.5m across.
>
> Has anybody got any ideas/recommendations on how I can do this?
>
> many thanks,
> Christian Haselwimmer
> (PhD student, British Antarctic Survey)

I think its best you discontinueize (or something like that) your
spectral measurement in a finite number of bands (how many? maybe the
number of bands of the satellite/airborn sensors is good place to
start). Then, you should interpolate each band on it's own creating
the hyperspectral image you want. There's a lot of info in the IDL
help files about interpolating this kind of bands.