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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.

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