
Subject: Re: ENVI Question: Can you programmatically access the Available Spectra List?

Posted by [Jean H.](#) on Fri, 30 Mar 2007 16:21:21 GMT

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> Thanks for the reply. I knew about getting data out of spectral
> libraries already - I think I probably didn't explain my original
> problem well enough. Lets say you had a z-profile (or any kind of
> profile, really) opened in an ENVI spectral profile window. If you
> then go to spectral math and enter an expression like "s1 + 50" in the
> expression dialog, then the next thing you're going to see is another
> dialog where you tell ENVI which spectrum you're going to use as s1.
> That spectrum that you had in the ENVI spectral profile window is
> going to be listed in that dialog box so that you can tell ENVI to use
> it as s1. In fact, if you didn't have a spectral profile window up
> with any spectra displayed before you called the spectral math dialog,
> the spectral math dialog will give you an error as I recall. It does
> all this by somehow having a list in memory of all the spectra that
> are being displayed in a profile box. What I want to do is get to
> that list and use it in a routine of my own. That way I can process on
> any kind of spectrum, whether it be from a library, a remote sensing
> scene, test data, etc.

If you want to use this list, why not simply writing a little function
that you use in the spectral maths? The parameters of this function
would be s1, s2 etc... and the dialog box you are talking about will
show up asking you which spectrum is s1 etc.

Otherwise, maybe the spectrum are accessible through ENVI_SELECT and
ENVI_GET_FILE_IDS but I have never tried it!

Jean

>
> I'm sure you know that there are custom "plot functions" that you can
> write that show up under the "Plot Function" menu of a spectral
> profile display if you modify the useradd.txt file. But, like with
> custom band and spectral math functions, the code that you write has
> some limitations. This is sort of what I want to do in that it's a
> routine that takes in a spectrum that's been displayed in a profile
> window and does some things with it. But I need to do more than just
> display that input spectrum. I need to do things that require more
> input from the user, so I need dialog boxes, etc. Now, of course, I
> can write a routine of my own that gets the spectrum from the user
> some other way, but that just seems to be reinventing the wheel, and
> from the user's point of view it seems more intuitive to display a
> routine, and then click a button or something that says "Do Jeff's

> nifty routine on this spectrum."
>
> I've pretty much given up hope that what I want to do is possible, but
> I thought it was worth a try anyway.
>
> Thanks for your help,
> Jeff
>
