
Subject: AVHRR Calibration and Georeferencing
Posted by [Susanne Adams](#) on Sat, 19 Dec 2009 10:20:41 GMT
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Hi,

I have an AVHRR file that I want to first calibrate and then georeference using IDL (and ENVI).

Thanks to the 'envi_avhrr_calibrate_doit' I can input an AVHRR file and get it calibrated. The output of this function is a file of type ENVI.

Now, there is also an 'envi_avhrr_geometry_doit' function that does what georeferencing is needed, however, the input file to that function must be of type AVHRR.

The problem I'm facing is that I cannot input the file that I calibrate using the 'envi_avhrr_calibrate_doit' function (since it is of type ENVI and needs to be of type AVHRR).

I'd be grateful if someone could help me come up with a solution to this problem.

Susi

Subject: Re: AVHRR Calibration and Georeferencing
Posted by [Giuseppe Papa](#) on Thu, 24 Mar 2011 17:11:33 GMT
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Hi Susi,

I had this exact same problem - And I'm sure you've probably already solved it by now but in case anyone else has the same problem here's how to solve it:

To both calibrate and navigate an AVHRR image in ENVI you have to first perform the calibration and save the result as an ENVI image (or to a file in ENVI's memory which is usually the handiest). Then you can georeference this calibrated ENVI image BUT you must give ENVI the original AVHRR image too.

In the dropdown menu to georeference (or warp) the calibrated image, select this image in

memory first - the screen will refresh itself and you will be allowed to select the original AVHRR image secondly. ENVI will use the information from the original AVHRR image to further process your calibrated image.

I literally discovered this solution totally by accidentally, clicking on the wrong image when tired and sleepy. All the googling in the world couldn't give me this very simple solution - probably because it was too simple; but I'm self-taught in ENVI so it was anything but obvious to me :)

The procedure is the same if using ENVI in batch mode through IDL - calibrate first using `envi_avhrr_calibrate_doit`, then follow this up with:

```
"envi_doit, 'envi_avhrr_warp_doit', fid = (insert calibrated file fid), avhrr_fid = (original AVHRR fid),  
dims=dims, pos=pos" etc..
```

Hope this helps the next person who has this problem :)

Cheers,
Gillian
