Subject: Help with code for hyperspectral image analysis Posted by Kel on Mon, 11 Jun 2012 14:59:55 GMT

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I have BIL image data of an estuary with 1674 lines, 1302 samples, and 156 bands. I need to mask everything that is land, which is easily identified by its high reflectance values in certain bands - I use band 140 to identify it in my code.

Here's the code that I've worked up, and it does indeed write an ENVI file, but it's reduced to a single band instead of having all 156 in the unmasked areas. How do I get my output file to have all 156 bands??

Parts of this code were written by someone else, so just because I did something once in this code that doesn't mean that I understand it or could apply the concept again!

Thank you so much! -K pro envi_masking_image ;select your image file :Get your file image=dialog_pickfile() ;check to see if valid for ENVI envi open file, image, r fid=fid ;learn about the image ENVI FILE QUERY, fid, ns=ns, nl=nl, nb=nb, data type=data type help, data_type ;build array based on data type data_holder=intarr(ns, nb, nl) help, data holder open a new file for reading as IDL file unit number 1 openr, 1, image ;write the data in my image file to the file 'data array' readu, 1, data_holder close, 1 :create the mask

last line

;locate the place that you want data from.

;-1 is just because, then the next two numbers specify the first sample, last sample, first line, and

;that you will read from. Envi starts with 0, so to read the whole image read from 0 to ns-1 and nl-1. dims = [-1, 0, ns-1, 0, nl-1] ;get data from the image, pos seems to indicate which band to get data from f = ENVI_GET_DATA(fid=fid, dims=dims, pos=140)

;apply the mask to the image array

Icmask = f LT 40

masked_image=convol(data_holder, lcmask)

;write out the result as an envi file envi_write_envi_file, masked_image, out_name='masktest'

end