## Subject: Getting ROI data from an image Posted by Rebecca on Fri, 30 Sep 2011 17:50:06 GMT

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I need to extract hyperspectral data from an image ROI:

The project I'm working on requires me to code strictly with IDL, so I cannot use ENVI calls in the final product. I am running unsupervised classification (K-Means), which returns a classification image with each pixel assigned a number from [0,..nClasses]. I want to use the classification image to subset the image based on ROI and get the mean spectra from each class. The functionality I need is probably the same as ENVI\_GET\_ROI\_DATA(). My exact question is, how can I use the one-dimensional calls to capture ROI data from the hypersepctral data?

```
samples = 320
lines = 1000
bands = 300
classes = 15

result = KMEANS(img, ITERATIONS = 4, NCLASSES = classes)

FOR i = 0, nClasses-1 DO BEGIN
    loc = WHERE(result EQ i, count)
    IF count EQ 0 THEN CONTINUE

; ?
; ?
; ?
```

**ENDFOR**