
Subject: IMAGE_STATISTICS for 3D Array

Posted by [Ashok](#) on Tue, 13 Apr 2010 01:48:49 GMT

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Hi,

I am a beginner in IDL. I am stuck in finding out the image statistics using data of 3D array (sample, length, band).

I used the following command to find out image statistics.

```
ref_band = fltarr(s_size,l_size,7)
ref_band = reflective_bands(nw_sam:nw_sam +
roi_sam_size-1 , nw_lin:nw_lin + roi_len_size-1, band_no)
maskgrid = fltarr(s_size,l_size,7)
maskgrid(Grid_size*sregion
+grid_sstart:Grid_size*sregion
+Grid_size-1+grid_sstart,Grid_size*lregion
+grid_lstart:Grid_size*lregion+Grid_size-1+grid_lstart,band_no)=1
IMAGE_STATISTICS, ref_band, MASK=maskgrid, $COUNT =
pixNum, MAXIMUM = pixMax, $
MEAN = pixMean, MINIMUM = pixMin, $
STDDEV = pixSTD
```

It says Mask dimensions incompatible with input data.

I have tried using 2D array omitting band, then it works in this case.

Can I get image statistics of all bands at a time using IMAGE_STATISTICS command?

Your clarification is highly appreciated.

Ashok
