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Subject: Re: image statistics without the NaN

Posted by [David Fanning](#) on Mon, 18 Feb 2008 06:20:54 GMT

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raghuram writes:

> Here's the problem :  
>  
> I wrote an IDL script to compute basic statistics of a MODIS image  
> that i have processed.  
> The areas outside my study area have been set to NaN because i don't  
> want them to be considered  
> while computing statistics in ENVI.  
> But, when i use the Image\_statistics procedure in IDL, i'm not able to  
> ignore the NaN and hence all the  
> basic stats show values of NaN( like max=NaN, min= NaN etc..)  
>  
> Expected result:  
> To calculate the true max,min values of the image without considering  
> the pixels which are set to NaN.  
>  
> Anybody has any idea how to go about fixing this problem ? my initial  
> thought was to create a NaN mask, but  
> i want to get some ideas flowing.

I should think something like this will work:

```
IDL> Image_Statistics, image, Mask=Finite(image), MIN=min, MAX=max
```

Well, except that this program seems strangely written, in that the mask must be a named variable for some reason. So try this:

```
IDL> mask = Finite(image)  
IDL> Image_Statistics, image, Mask=mask, MIN=min, MAX=max
```

Cheers,

David

Cheers,

David

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David Fanning, Ph.D.

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Coyote's Guide to IDL Programming ([www.dfanning.com](http://www.dfanning.com))

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

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