
Subject: Re: Calculating a mean band

Posted by [greg.addr](#) on Wed, 11 Jul 2007 15:30:47 GMT

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On Jul 11, 5:08 pm, Julio <j...@cpa.unicamp.br> wrote:

> Hi there!

>

> Very simple question... I have a multi-band image (36 bands) and I
> need to calculate the average of the bands, pixel by pixel.

>

> If I do that:

>

> `average_array=mean(multi_band)`

>

> I get a single value, because it doesn't work pixel by pixel. So, how
> can I do to make a mean band of all the 36 bands??

>

> Comments welcome.

>

> Best!

> Julio

If you have `image=fltarr(x,y,36)`, try `mean_image=total(image,3)/36`

Greg

Subject: Re: Calculating a mean band

Posted by [Jean H.](#) on Wed, 11 Jul 2007 15:32:44 GMT

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Julio wrote:

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> can I do to make a mean band of all the 36 bands??

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> Comments welcome.

>

> Best!

> Julio

>

Hi,

You can easily make the sum of you band along a dimension... so
average_array = total(multi_band, 3) / nbOfBands

Jean

Subject: Re: Calculating a mean band
Posted by [Conor](#) on Wed, 11 Jul 2007 15:48:06 GMT
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On Jul 11, 11:32 am, "Jean H." <jghas...@DELTHIS.ucalgary.ANDTHIS.ca>
wrote:

> Julio wrote:

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>> Julio

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> Hi,

>

> You can easily make the sum of you band along a dimension... so
> average_array = total(multi_band, 3) / nbOfBands

>

> Jean

You could also do it this way, assuming image=fltarr(x,y,36)

mean_image = rebin(x,y,1)

I'm not sure which way is faster
