Subject: Re: Calculating a mean band
Posted by greg.addr on Wed, 11 Jul 2007 15:30:47 GMT
View Forum Message <> Reply to Message

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 calcultate 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
View Forum Message <> Reply to Message

Julio wrote:
> Hi there!
>
> Very simple question... I have a multi-band image (36 bands) and I
> need to calcultate 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

>

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
View Forum Message <> Reply to Message

On Jul 11, 11:32 am, "Jean H." <jghas...@DELTHIS.ucalgary.ANDTHIS.ca>
wrote:
> Julio wrote:
>> Hi there!
>
>> Very simple question... I have a multi-band image (36 bands) and I
>> need to calcultate 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
>
> 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
