Subject: Re: Calculate the mean of many images Posted by Jeremy Bailin on Mon, 17 Nov 2008 14:35:01 GMT View Forum Message <> Reply to Message

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On Nov 16, 9:57 am, Jeremy Bailin <astroco...@gmail.com> wrote:
> On Nov 16, 1:16 am, Bulrush < Wasit. Weat... @gmail.com > wrote:
>
>
>> Hello,
>> I know this topic has been posted several times. But I could not find
>> my answer from these posted.
>> My issue is: I have many images 2 bands in each, one image is QA image
>> and the other one is data.
>> I need to calculate the mean of good pixels. Let's say QA image tells
>> me the location of good pixels, e.g. 1 for good pixels, and other for
>> bad. There are also NaN values. So, if the pixels are "good" in 7
>> images out of ten, then
>> (pixel1+pixel2...+Pixel7) /7
>> How can I do that?
>> Thanks any advice!
>> Elkunn
>
> I'm going to assume that ga and image are both nx x ny x nimage
 arrays, and ga is 1 for good, 0 for bad.
>
> ngoodpix = total(qa, 3)
> imagesum = total(image * qa, 3)
> meanimage = imagesum/ngoodpix
> -Jeremy.
Sorry, that doesn't deal with the NaNs properly... and you said that
ga can have other values than 1? How about this:
ngoodpix = total(qa ne 0, 3)
imagesum = total(image*finite(image)*(qa ne 0), 3)
meanimage = imagesum/ngoodpix
-Jeremy.
```