

---

Subject: Re: Resample (neighborhood averaging) a 3D array with missing data  
Posted by [lecacheux.alain](#) on Mon, 02 Dec 2013 10:44:03 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Le lundi 2 décembre 2013 11:39:19 UTC+1, alx a écrit :  
> Le lundi 2 décembre 2013 11:35:47 UTC+1, alx a écrit :  
>  
>> Le lundi 2 décembre 2013 02:51:50 UTC+1, zhang...@gmail.com a écrit :  
>  
>>  
>  
>>> Hello, everyone:  
>  
>>  
>  
>>>  
>  
>>  
>  
>>>  
>  
>>  
>  
>>>  
>  
>>  
>  
>>> I want to resample a 128x20000x32 (sample,line, band) image with missing data into a 32x5000x32 image, using neighborhood averaging over 4x4 pixels.  
>  
>>  
>  
>>>  
>  
>>  
>  
>>> The REBIN function cannot help, since it has no NaN keyword like MEAN; The "Average Arrays with Missing Data" tip in the "Examples To Illuminate the IDL Way" is for two arrays ([http://www.idlcoyote.com/idl\\_way/smallexamples.html](http://www.idlcoyote.com/idl_way/smallexamples.html)).  
>  
>>  
>  
>>>  
>  
>>  
>  
>>>



```
>
>>
>
>> alx.
>
>
>
>
> Maybe faster would be:
>
> resampled_array=mean(transpose(reform(array,4,32,4,5000,32,/ OVER),[0,2,1,3]),
DIM=1,/NAN)
>
>
>
> alx.
```

Sorry, I forgot a more REFORM !

```
resampled_array=mean(reform(transpose(reform(array,4,32,4,50
00,32,/OVER),[0,2,1,3]),8,32,5000,32,/OVER),DIM=1,/NAN)
```

---