
Subject: Re: do SMOOTH not on all data
Posted by [air_jlin](#) on Thu, 31 Oct 2002 01:16:37 GMT
[View Forum Message](#) <> [Reply to Message](#)

hi Dave,

how about setting the values of -9999 to NaN and then use the /Nan keyword in SMOOTH? this would mean you'd convert your data to floating, but i'm assuming that's ok with you since you're smoothing it:

```
novalid=WHERE(array eq -9999)
array=FLOAT(array)
array[novalid] = !VALUES.F_NAN
result=SMOOTH(array,5,/Nan)
```

hope this helps!

best,
-Johnny

Johnny Lin
CIRES, University of Colorado
Work Phone: (303) 735-1636
Web: <http://cires.colorado.edu/~johnny/>

David Oesch <oesch@giub.unibe.ch> wrote in message
news:<3DC00163.2010308@giub.unibe.ch>...

```
> Hi outthere,
>
> I just want to use SMOOTH on a 2D array. But some data are bad (-9999)
> and should not be considered in the smoothing process. Well trying to
> assign those bad data like this
> novalid=WHERE(array NE -9999)
> result=SMOOTH(array(novalid),5)
>
> DOES not work.
>
> I think the solution is using 'NaN' option, but how to I assign -9999 as
> NaN as the !VALUES.F_NAN is write protected?
>
> Cheers
>
> Dave
```
