
Subject: Re: do SMOOTH not on all data

Posted by [David Fanning](#) on Wed, 30 Oct 2002 16:10:38 GMT

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David Oesch (oesch@giub.unibe.ch) writes:

```
> 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?
```

You want something like this:

```
arrayCopy = array
bad = Where(arrayCopy EQ -9999, count)
IF count GT 0 THEN arrayCopy[bad] = !Values.F_NAN
smoothedArray = Smooth(arrayCopy, /NAN, 5)
```

Cheers,

David

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