Subject: Re: do SMOOTH not on all data Posted by mchinand on Wed, 30 Oct 2002 16:05:14 GMT View Forum Message <> Reply to Message In article <3DC00163.2010308@giub.unibe.ch>, David Oesch <oesch@giub.unibe.ch> wrote: > 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 Try:

Subject: Re: do SMOOTH not on all data Posted by David Fanning on Wed, 30 Oct 2002 16:10:38 GMT View Forum Message <> Reply to Message

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

array(where(array eq -9999))=!VALUES.F_NAN

- 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

result=SMOOTH(array,5,/NAN)

--Mike

- > 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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Coyote's Guide to IDL Programming: http://www.dfanning.com/

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Subject: Re: do SMOOTH not on all data

Posted by air_jlin on Thu, 31 Oct 2002 01:16:37 GMT

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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/

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David Oesch <oesch@giub.unibe.ch> wrote in message
news:<3DC00163.2010308@giub.uninovalid=WHERE(array NE -9999)be.ch>...
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