
Subject: Re: Regridding routines
Posted by [btt](#) on Tue, 08 Mar 2005 18:52:54 GMT
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sdj@tiscali.it wrote:

> Dear All,
>
> This is an ongoing problem I cannot seem to solve.
>
> I have some data in array a = fltarr(4320, 2160) which I need to regrid
> to an array b = fltarr(4096, 2048).
>
> The data in 'a' are ocean related with valid values appearing only on
> the sea pixels, all land pixels are set to some default value (say
> -9999.0).
>
> All the methods I tried using to regrid the data introduce a
> substantial error.
>

Hi,

I am not sure that this is an answer to your question, but if all you want to do is resize then you could perform the following.

```
;make up dummy data
nX = 200L
nY = 300L
x = Hanning(nX, nY)
;assign a portion of the data the not-a-number value
x[Lindgen((nX*nY)*0.25)] = !Values.F_NAN
;resize the data array
y = CONGRID(x, nX, nY + 0.3*nY,/INTERP)
;show the data
tv, bytscl(x, /NAN)
tv, bytscl(y,/NAN), nx+10,0
```

If you need more sophisticated gridding - then you should look into Grid_Input and GridData.

Hope this is helpful,
Ben
