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Subject: Re: Satellite Swath Overlap

Posted by [Andy Sayer](#) on Wed, 12 Feb 2014 19:26:38 GMT

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Well, you could try something like this (and assuming result1, result2 are supposed to be the same size and not different like in your code):

missingval=0 ; or whatever indicates no data

nx=n\_elements(result1[\*,0]) ; get size of x dimension

ny=n\_elements(result1[0,\*]) ; get size of y dimension

result\_averaged=fltarr(36,400) ; array to contain average results

for i=0l,nx-1 do begin

  for j=0l,ny-1 do begin ; Loop over cells

    if result1[i,j] eq missingval and result2[i,j] eq missingval then result\_averaged[i,j] = missingval

    if result1[i,j] eq missingval and result2[i,j] ne missingval then result\_averaged[i,j] = result2[i,j]

    if result1[i,j] ne missingval and result2[i,j] eq missingval then result\_averaged[i,j] = result1[i,j]

    if result1[i,j] ne missingval and result2[i,j] ne missingval then result\_averaged[i,j] =

  mean([result1[i,j],result2[i,j]])

  endfor

endfor

Then do your plotting using result\_averaged.

There are probably more efficient ways to code this but I think the above is an easy-to-understand method, if I have understood your problem correctly. Hope this helps!

Andy

On Wednesday, February 12, 2014 12:14:21 PM UTC-5, Chase Calkins wrote:

> Hello Everyone,

>

>

>

> I have a couple of files that I overlap on a mapset but when I plot it, the image is overwritten by the latter of each file. A simple set up is essentially like this.

>

>

>

> Lat1 = fltarr[36,400]

>

> Lon1 = fltarr[36,400]

>

>

```
>
> Lat2 = fltarr[36,400]
>
> Lon2 = fltarr[36,400]
>
>
>
> result1 = fltarr[36,400]
>
> result2 = fltarr[46,400]
>
>
>
> cgcontour, result1, Lon1, Lat1, level = findgen(18)/10-.2, /overplot, /cell_fill
>
>
>
> MAP_SET, /Continents, limit = [10,70,45,135], /grid, label = 2, latlab = 110, color =1, charsize =
1.9, /noerase
>
>
>
> cgcontour, result2, Lon2, Lat2, level = findgen(18)/10-.2, /overplot, /cell_fill
>
>
>
> MAP_SET, /Continents, limit = [10,70,45,135], /grid, label = 2, latlab = 110, color =1, charsize =
1.9, /noerase
>
>
>
> A picture of what I am experiencing is here.
>
>
>
> http://www.vos.noaa.gov/MWL/apr\_10/Images/pacific/Fig21P.jpg
>
>
>
>
> I was wanting to know if there is a way IDL can say where the overlap is and average the result
between the two files in the overlap section.
>
>
>
> Thanks,
>
```

>  
>  
> Chase

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