Subject: North America landmass extractiong using Land_mask function in idl
Posted by siumtesfai on Sat, 18 Jul 2015 00:27:37 GMT
View Forum Message <> Reply to Message

Hello All,

I have Climate model data with the following dimension

data = [144,73] ; longitude X latitude

I am interested in analyzing the landmass only. I would exclude ocean data.

I learned that there is idl function that does what I am interest to do.

That is land_mask.pro

However, here is my problem

land = land_mask (resolution=[2.5,2.5], lat=lat,lon=lon)

This would provide a dimension of

land = [144,72] :

0 represent ocean
1 represent land

I would do the following to get the landmass data which I know it has a dimension of 144 longitude by 73 latitude with 2.5 by 2.5 resolution

```
landmass= fltarr(144,73)
FOR i=0,143 do begin
FOR j=0,72 do begin

x=reform(land(i,j))

y=where(x GT 0 )

if y(0) GE 0 then begin

landmass(i,j)=data(i,j)

endif else begin

landmass(i,j)= !F.values_NAN

endelse
```

ENDFOR
ENDFOR

Problem is out of range latitude range that is the j loop

Additional example is below

land = LAND_MASK(lat=lat,lon=lon,Limit=[-170,30,-50,75],resolution=[2.5,2.5])

Land_mask function provide the following dimension for north america domain

land = [48,18]

It should have given the following dimension

land =[49,17]

What am i missing ?

Thank you very much for you help

Best regards
