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Subject: Separating land and ocean data in IDL  
Posted by [siumtesfai](#) on Fri, 10 Jul 2015 19:33:22 GMT  
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Hello all,

I have climate model output data in IDL sav file format and NCDF file.

Dimension of the data

Sz=size (DATA)

longitude= sz(1) : 0-360 degree

latitude = Sz(2) : -90S to 90N

pressure = Sz(3) : 1000hPa to 10hPa

time = Sz(4) : 1979 to 2005

The data is global. I can extract regions . For example , North america domain by restricting my longitude and latitude. That is easy. I would use "Where" command

E.g lat=where( latitude GE lat1 and latitude LT lat2)  
lon =where( longitude GE lon1 and longitude LT lon2)

DATA1=data(lon,lat,\*,\*)

My question is how can you extract only data at the continental north america over land. I am not interested in analyzing data over the oceans ( i.e North Pacific and Atlantic )

Waiting for your suggestion.

Thank you for you help

Best regards

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