
Subject: Re: Extracting array with same date, lat, long
Posted by [Markus Schmassmann](#) on Wed, 03 May 2017 13:50:26 GMT
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On 05/02/2017 06:40 PM, michelle.tomlinson@noaa.gov wrote:

> I have a structure of data which contains multiple reading for the same date and location. For example:

It's not really clear what you want, but maybe this helps:

```
;----- file: ord.pro
function ord, array
;+
;   Calculates the ordinal of each value of an array in terms of the
;   sorted values.
;   inspired by jbiu's ord & uniqify
;   IDL> result=ord(array)
;-
    compile_opt defint32, strictarr
    return, reform( value_locate(array[uniq(array,sort(array))],array),$
        size(array,/dimensions),/overwrite)
end
;----- EOF

ord1=ord(lon)
ord2=ord(lat)
ord3=ord(date)
idx=ord1+(max(ord1)+1)*(ord2+(max(ord2)+1)*ord3)
ord4=ord(idx)
h=histogram(ord4,reverse_indices=ri)
for j=0,n_elements(h)-1 do begin
    w=ri[ri[j]:ri[j+1]-1]
    print, lon[w[0]], lat[w[0]], date[w[0]]
    array=data[w,*]
    ;do something with the array of data for this triple of lon,lat,date
endfor

;-----
good luck, Markus
```
