
Subject: Lonlat2reg.pro vs. Grid program
Posted by [Nick\[1\]](#) on Sat, 20 Oct 2007 09:25:27 GMT
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Hello, thankful users.

As you know, lonlat2reg.pro is a very useful grid program.
Yesterday I compared the result from lonlat2reg with code which I made.

I anticipated that these results would be the same, but weren't.

Why are they different? Could you please let me know?

My code is like this..

```
=====lonlat2reg
result = lonlat2reg(value,lon,lat, lon0=-180.,lat0=90.,dlon=1.,
dlat=-1., nlon=360., nlat=180.)
Average_value1 = result.avg(*,*)
```

```
=====My code
glon = findgen(360) - 179.5
glat = -findgen(180) + 89.5
  for k=0, 179 do begin
    for j=0, 359 do begin
      idx = where(lon lt glon(j)+0.5 and lon ge glon(j)-0.5 and lat le
glat(k)+0.5 and lat gt glat(k)-0.5, nn)
      if nn ge 1 then begin
        S_value(j,k) = S_value(j,k) + total(value(idx),/nan)
        N_value(j,k) = N_value(j,k) + nn
      endif
    endfor ;j
  endfor ;k
Average_value2 = S_value / N_value
```

My code is really slow, but I think it is easier understandable than lonlat2reg.pro

So I was supposed to use lonlat2reg.pro if Average_value1 and Average_value2 would be the same.

Thank you for your attention, Nick
