
Subject: Re: wrong results...

Posted by [Ken Mankoff](#) on Tue, 03 May 2005 22:56:45 GMT

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On Tue, 3 May 2005, yp wrote:

> Kenneth Bowman wrote:

>>

>> lon = (lon + 360.0) MOD 360.0

>>

>

> Thats brilliant!

>

>> By the way, the reverse transformation is

>>

>> lon = lon - (LONG(lon)/180)*360.0

>>

>

> This is great too; but how to parse the last element? Using the
> above transformation, 180.0 becomes -180.0 at both ends. This does
> transform the coordinate exactly for all elements except +180.0.
> Of course, zonally 180 = -180 from a geographic perspective.

The IDL astronomy library has a CIRRRANGE procedure (circle range) that forces things to 0->360. It is pretty easy to modify it to a RANGE CIR procedure that does the -180 to 180 range. Works for radians too via a keyword. Check it out, it might be a good starting place.

-k.

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