
Subject: Re: Weird Map Projection

Posted by [K. Bowman](#) on Wed, 30 Aug 2006 20:02:44 GMT

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In article <MPG.1f5f88cbea27da24989ca3@news.frii.com>,
David Fanning <davidf@dfanning.com> wrote:

> Folks,
>
> OK, here is a question from the mail bag that I don't know
> the answer to.
>
> How can I set up a map projection space, using MAP_SET
> if possible, that has longitude 360 on the LEFT and
> longitude 0 of the RIGHT.

In the example, there are no labels for 90 and 270, so it is not possible to tell whether longitude actually decreases to the right or whether it is just labeled in a "creative" way. (That is, the longitudes could be 360, 90, 180, 270, 0 or 360, 270, 180, 90, 0.)

If you really need longitude to decrease to the right, assuming the data array and associate longitudes vary like this

```
IDL> x = 360 - 90*lindgen(5)
IDL> print, x
      360      270      180      90      0
```

Just flip the coordinates (not the data) like this

```
IDL> x1 = -x + 360
IDL> print, x1
      0      90      180      270      360
```

and use a conventional MAP_SET. Then

```
CONTOUR, z, x1, y, ...
```

and label "manually"

```
FOR i = 0, 360, 90 DO YXOUTS, x1[i], y0, STRTRIM(x[i], 2)
```

If your data has longitude *increasing* to the right, but you want to plot it backwards, flip the data, not the longitudes.

Ken Bowman
