
Subject: labeling my polarplot

Posted by [hschlueter](#) on Fri, 28 Feb 2003 11:29:04 GMT

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i want to label my polarplot in polarcoordinates. i tried it with xyouts but its not working. the plot is a circle with a radiationfield inside, thats with polar_contour. around of the field is the circle with plot. the circle should be labelled with tickmarks (45, 90, 135, 180,...360 degree). can anybody help me with that? thanks for responding.
helena

```
;Handle TrueColor displays:
;DEVICE, DECOMPOSED=0
;Load color table
;TEK_COLOR
```

```
set_plot, 'PS'
close,1
openr,1, 'ABB4-9_6.DAT'
readf,1, n_data
azimuth = fltarr(n_data)
zenith = fltarr(n_data)
wert = fltarr(n_data)
```

```
deg2rad = !pi/(-180.0)
rad2deg = 1.0/deg2rad
```

```
tripel = fltarr(3)
for i_data = 0, n_data - 1 do begin
  readf,1, tripel
  zenith(i_data) = (tripel(0)*deg2rad)
  azimuth(i_data) = (tripel(1)*deg2rad)-!PI/2
  wert(i_data) = tripel(2)
endfor
```

```
n_levels = 20
c_labels = fltarr(20)
for i = 0, n_levels - 1, 2 do c_labels(i) = 1
```

```
levels = min(wert) + findgen(n_levels)/(n_levels - 1)*(max(wert) -
min(wert))
c_color = findgen(n_levels)/n_levels*255
```

```
xyouts ,2,2, 'This is text',alignment=-5.0,/device ;just tried out the
example
```

```

POLAR_CONTOUR, $
wert, azimuth, zenith, $
TITLE = 'Diffuse Radiation Field', $
/ISOTROPIC, $
xstyle = 4, ystyle = 4, $ ; Achsen nicht zeigen
LEVELS = levels, C_LABELS = c_labels
;/FILL, c_color=c_color

;XYOUTS, 50, 10, 'This is text', /DEVICE

r_frame=fltarr(361) ; ##### Frame, Ticks, Labels, ...
phi_frame=fltarr(361)
for i = 0,360 do begin
    r_frame(i) = !PI/2
    phi_frame(i) = i*deg2rad
endfor
plot, /polar, r_frame, phi_frame, xstyle = 4, ystyle = 4, $
    /noerase, linestyle = 1, /isotropic

;XYOUTS, 50, 10, 'This is text', /DEVICE

;xpos=fltarr(9)
;ypos=fltarr(9)

;for i = 0,360,45 do begin
;  xpos(i/45) = !PI/2 + 0.2
;  ypos(i/45) = i*deg2rad
;endfor
;plot, /polar, xpos, ypos, xstyle = 4, ystyle = 4, /noerase, $
;  linestyle = 1, /isotropic

;oplot, [-!PI/2, !PI/2], [0,0], linestyle = 2
;oplot;Handle TrueColor displays:

device, /close_file
set_plot, 'x'

end

```

Subject: Re: labeling my polarplot
 Posted by [wmconnolley](#) on Sat, 01 Mar 2003 17:21:17 GMT
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David Fanning <david@dfanning.com> wrote:
 > Did I mention that I was unemployed (in case anybody,
 > like, needs some work done or something).

I fear I can't afford you... ;-)

- > Anyway,
- > I fixed this code up to be a little more general
- > and I wrote an article about the process, including
- > a little picture that shows why ISOTROPIC doesn't
- > work.

Is an alternative to use mapping, with the polar stereographic projection? That's always looked fairly isotropic to me, though I admit I haven't checked toooooo closely.

-W.

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Climate Modeller, British Antarctic Survey | Disclaimer: I speak for myself
I'm a .signature virus! copy me into your .signature file & help me spread!
