NAME

pltmod – reads mod file and creates input for Generic Mapping Tools (GMT) psxy

SYNOPSIS

pltmod modeldb=(string) velmod=(string) [no]init [no]gmt pline=(string) sline=(string)

DESCRIPTION

reads mod file and creates input for Generic Mapping Tools (GMT) psxy

REQUIRED PARAMETERS

modeldb=(string)
path directory to *.mod files

velmod=(string)
basename of *.mod file

OPTIONAL PARAMETERS

[no]init
reinitialize the S-vel & Den to a Poissonian Solid based on P-vel (default off)

[no]gmt
sends output as GMT psxy output (default off, screen output)

pline=(string)
P-wave GMT psxy -W specs

sline=(string)
S-wave GMT psxy -W specs

EXAMPLE C-SHELL SCRIPT

```
#!/bin/csh

set  PS=plot_and_compare_models.ps
set JPG=plot_and_compare_models.jpg

gmt psbasemap -R0/10/-100/0 -JX5i/5i \
  -Bxf0.2a1+l"P and S-Velocities (km/sec)" \
  -Byf2a10+l"Depth (km)" -BNSeW+t"1D Earth Models" -P -K >! ${PS}

pltmod modeldb=. velmod=iasp gmt pline="-W2p,black"       sline="-W2p,black"       | \
        gmt psxy -R -JX -K -O >> ${PS}
pltmod modeldb=. velmod=wus  gmt pline="-W1.2p,red,5_2:0p" sline="-W1.2p,red,5_2:0p" | \
        gmt psxy -R -JX -K -O >> ${PS}
pltmod modeldb=. velmod=cus  gmt pline="-W1.0p,blue"      sline="-W1.0p,blue"      | \
        gmt psxy -R -JX -K -O >> ${PS}


gmt pslegend -R -JX -F+p1p+gtan -D1/-90/3i/BL -O >> ${PS} << EOF
G -0.15
H 18 Times-Roman 1-D Earth Models
G 0.05i
```

```
D 0.0i 1p,black
N 3
V 0 1p
S 0.2i r 0.8c,0.15c red   0.5p 0.45i wus
S 0.2i r 0.8c,0.15c blue  0.5p 0.45i cus
S 0.2i r 0.8c,0.15c black 0.5p 0.45i iasp
EOF

gmt psconvert -Tj -E300 -V ${PS}
```

SEE ALSO

mkgrnlib(1), *glib2sac*(1), *mtinv*(1)