NAME

grn2Mxy − converts Green's function library from Helmberger and Langston (1975) 3 fundamental faulting orientations format to Mij format.

SYNOPSIS

grn2Mxy glib=(string) z=(float) mtdegfree=(integer) [no]verbose [no]wrtdir

DESCRIPTION

Reads Green's function libraries from mkgrnlib using the 3 fundamental faulting orientations: SS,DS,DD+Isotropic format of Helmberger and Langston (H&L 1975) and outputs Gfs in Mij format. Writes output to new directories: (e.g.), "INCN/IU.INCN.00.mdj2.glib.rxx.grn" where extensions *.{cmp}(i){j}.grn are Mij i={x,y,z} j={x,y,z}, and component cmp={z,r,t}   Use glib2inv test_special and mtinv special argument options

REQUIRED PARAMETERS

glib={string}

Green's function library file (*.glib)

z={float}

Source Depth in km, only valid depths are in the Green's function library file

mtdegfree={integer}

Moment tensor degrees of freedom. 1=isotropic source only, 5=devatoric moment tensor, 6=full moment tensor

OPTIONAL PARAMETERS

[no]verbose

Verbosy output for debugging is *verbose* and for no verbosy output is *noverbose* [default off].

[no]wrtdir

Write out "Dump" the Green's functions as SAC formatted binary files into directories by station code name [default off].

Example

grn2Mxy glib=IU.INCN.00.mdj2.glib z=14 mtdegfree=5 wrtdir verbose

SEE ALSO

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