Input-files of makeCutawayForGMT

Input-files of makeCutawayForGMT

File name	Contents
Arbitrary name	Controlling parameters
mesh.dat	Mesh information
resistivity_block_iterX.dat *	Information of parameter cells

* In the file name, ‘X ‘ indicates the iteration number.

How to use makeCutawayForGMT

You need to execute the following command in the directory where input files exist.

makeCutawayForGMT [Name of parameter file]

File format of parameter file

Mesh type (0: Tetrahedral mesh, 1: Brick mesh , 2: Deformed non-conforming hexahedral element)

Iteration number

Type of cross section (0: Vertical cross-section, 1: Horizontal cross-section)

X (km) *Y (km)* *Z (km)* *Rotation center*

Rotation angle around the z-axis (deg.) [1)]

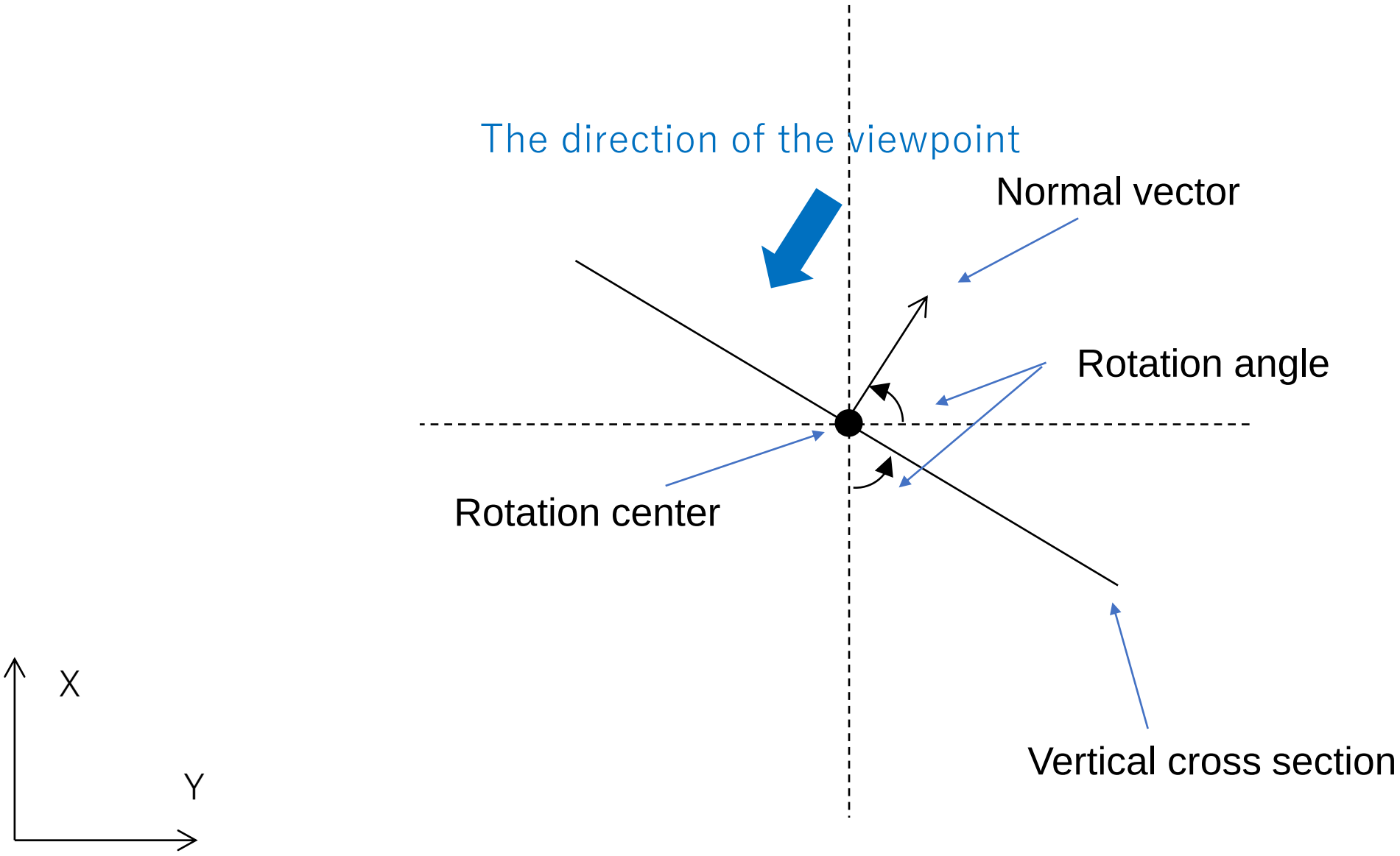
Number of the parameter cells excluded from cross section (N_{EX}) [2)]

Number of the 1st parameter cell excluded from cross section

⋮

Number of the N_{EX}-th parameter cell excluded from cross section

1) When the type of cross section is the vertical cross-section and the rotation angle is zero, the cross section is made on the ZX-plane.
2) Usually, the parameter cell corresponding to the air layer is excluded for drawing cross section.


The direction of the viewpoint
Normal vector
Rotation angle
Rotation center
Vertical cross section
X
Y

Output-files of makeCutawayForGMT

Output-files of makeCutawayForGMT

File name	Contents
resistivity_GMT_iterX.dat *	Information needed to draw cross-section of resistivity structure by the psxy command of GMT.

* In the file name, ‘X ‘ indicates the iteration number.

<Example>

```
> -Z   1.354416e+00
  -2.500000e+03   0.000000e+00
  -1.500000e+03   0.000000e+00
  -1.500000e+03   5.000000e-03
  -2.500000e+03   5.000000e-03
  -2.500000e+03   0.000000e+00
> -Z   1.354416e+00
  -1.500000e+03   0.000000e+00
  -9.987360e+02   0.000000e+00
  -9.987360e+02   5.000000e-03
  -1.500000e+03   5.000000e-03
  -1.500000e+03   0.000000e+00
```

Common logarithm of resistivity

Composing points of the polygon which has the above resistivity.