Input-files of changeResistivity

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

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

How to use changeResistivity

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

changeResistivity [Name of parameter file]

File format of parameter file

Iteration number

Shape of the area in which resistivity values are changed [1)]

Lx (km) | *Ly (km)* | *Lz (km)* — *Lengths along each axis*

X (km) | *Y (km)* | *Z (km)* — *Center of the area*

Rotation angle of the area around the z-axis (deg.)

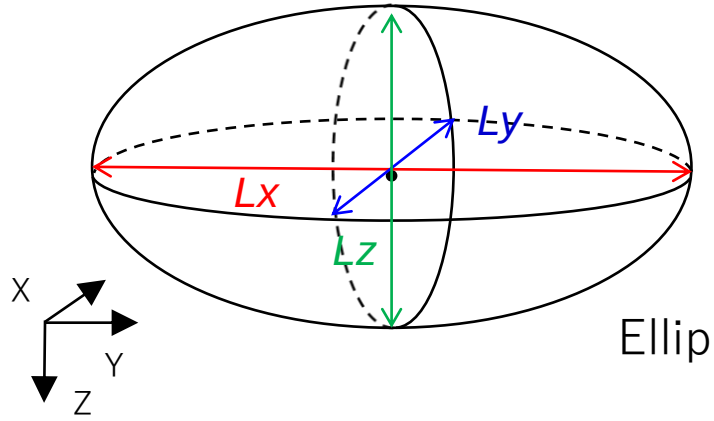
Lower limit of the resistivity values changed in this program(Ωm) [2)]

Upper limit of the resistivity values changed in this program (Ωm) [3)]

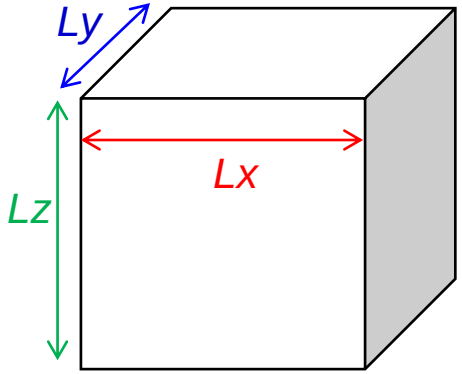
Resistivity after the change (Ωm)

Minimum resistivity after the change (Ωm)

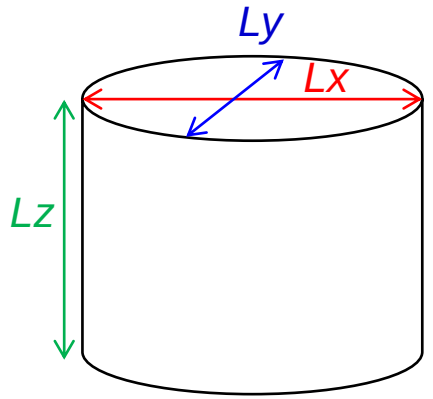
Maximum resistivity after the change (Ωm)



Ellipsoid



Cuboid



Cylindroid

1) 0 ➡ Ellipsoid, 1 ➡ Cuboid, 2 ➡ Cylindroid

2) If the resistivity value is lower than the lower limit, resistivity value is not changed.

3) If the resistivity value is high than the upper limit, resistivity value is not changed.

Output-files of changeResistivity

Output-files of changeResistivity

File name	Contents
Arbitrary name	Controlling parameters
resistivity_block_iterX.dat *	Information of parameter cells
ResistivityMod.iterX	Resistivity values of each element (Ensight Gold file format (binary))

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