

Input-files of changeResistivity

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

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

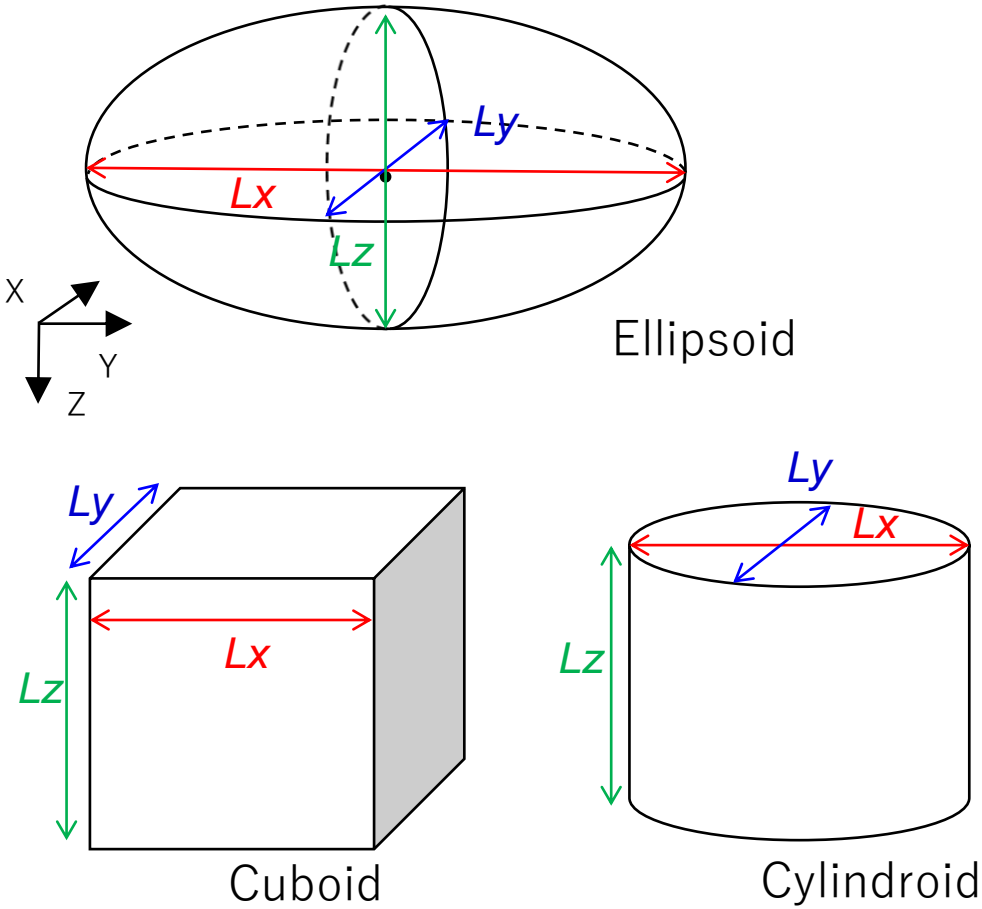
How to use changeResistivity

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

```
changeResistivity [Name of parameter file]
```

File format of parameter file

<i>Iteration number</i>		
<i>Shape of the area in which resistivity values are changed ¹⁾</i>		
<i>Lx (km)</i>	<i>Ly (km)</i>	<i>Lz (km)</i> <i>Lengths along each axis</i>
<i>X (km)</i>	<i>Y (km)</i>	<i>Z (km)</i> <i>Center of the area</i>
<i>Rotation angle of the area around the z-axis (deg.)</i>		
<i>Lower limit of the resistivity values changed in this program(Ωm) ²⁾</i>		
<i>Upper limit of the resistivity values changed in this program (Ωm) ³⁾</i>		
<i>Resistivity after the change (Ωm)</i>		
<i>Minimum resistivity after the change (Ωm)</i>		
<i>Maximum resistivity after the change (Ωm)</i>		



- 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

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File name	Contents
resistivity_block_iterX.mod.dat *	Information of parameter cells after the change of resistivity
ResistivityMod.iterX	Resistivity values of each element (Ensign Gold file format (binary))

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