■ How to read the Format

The data is recorded in the NetCDF4 format, which is a widely-used self-describing format developed at Unidata (http://www.unidata.ucar.edu/software/netcdf/software.html). A number of data viewers and manipulation tools are available for the NetCDF format. Please see the tool list (http://www.unidata.ucar.edu/software/netcdf/software.html).

If you use Python3, you can read the NetCDF data with such description as bellow;

```
from os import chdir import netCDF4 as ncf

chdir("Write an absolute path of the directory where you have downloaded the data")

nc0 = ncf.Dataset('xmgi19981020_ef.nc', 'r', format='NETCDF4')

lon = nc0.variables["lon"][:] # longitude [deg.]

lat = nc0.variables["lat"][:] # latitude [deg.]

alt = nc0.variables["alt"][:] # altitude [km]

time = nc0.variables["time"][:] # time [UT]

density = nc0.variables["vel"][:,:,:,:] # lon Vertical Velocity [m/s]

lon_dim = len(lon)

lat_dim = len(lat)

alt_dim = len(alt)

time_dim = len(time)

nc0.close()
```