

Note: This python script was written by Andrew Janiszkeski of UIUC (janszsk2@illinois.edu). In order to use the script, first copy the text below into a new file with a .py extension and make the file executable.

```
# The purpose of this code is to print out a table of the data in a netCDF file to make it easier to read
```

```
# You'll need to use numpy, astropy, netCDF4, and pandas
```

```
import numpy as np
import pandas as pd
import netCDF4 as nc
import astropy
```

```
from astropy.table import Table
from netCDF4 import Dataset as NetCDFFile
```

```
# Read in the file
nc= NetCDFFile('path to file/filename', 'r')
```

```
# Extract the data arrays
```

```
temp=nc.variables['TC'][:]
rh=nc.variables['RH'][:]
time=nc.variables['Time'][:]
hagl=nc.variables['HAGL'][:]
windspd=nc.variables['WINDSPD'][:]
winddrn=nc.variables['WINDDRN'][:]
press=nc.variables['PRESS'][:]
```

```
# Define a new variable to organize and cluster all the data that was extracted together.
```

```
data=time,press,hagl,temp,rh,windspd,winddrn
```

```
# Using Table from astropy.table, a simple and neatly ordered table is made with the data extracted from the netCDF file.
```

```
Table(data, names=('Time','Pressure','Height AGL','Temperature','Relative Humidity','Wind Speed','Wind Direction'))
```