[97]:

```
import xarray as xr
import numpy as np
import glob
from netCDF4 import Dataset
import os
```

[99]:

```
file_path='/users/karolina/Desktop/AREX_netCDF_1996-2023/*/netcdf/*.nc'
file_list = glob.glob(file_path)
```

[101]:

```
datasets=[xr.open_dataset(fp) for fp in file_list]
print(len(datasets))
```

```
5685
```

[105]:

```
output_path = '/users/karolina/Desktop/AREX_netCDF_1996-2023/combined_all.nc'

# Utworzenie pustego pliku netCDF
rootgrp = Dataset(output_path, 'w')

for fp in file_list:
    # nazwa grupy = nazwa pliku bez ścieżki i rozszerzenia
    group_name = os.path.splitext(os.path.basename(fp))[0]
    ds = xr.open_dataset(fp)
    # Zapisanie dataset do grupy
    ds.to_netcdf(output_path, mode='a', group=group_name)

rootgrp.close()
```

```
---------------------------------------------------------------------------
KeyboardInterrupt                         Traceback (most recent call last)
Cell In[105], line 11
      9     ds = xr.open_dataset(fp)
     10     # Zapisanie dataset do grupy
---> 11     ds.to_netcdf(output_path, mode='a', group=group_name)
```