CMIP6

So once you login to the NCAR Cheyenne machine, you can get the data at:

```
cd /glade/collections/cmip/CMIP6/CMIP/NCAR/CESM2/historical/r10i1p1f1/
```

for the first ensemble member. There are several folders within this directory for each of the variables of interest. For the surface_snow_thickness, the variable name is snd. You can find the files for the historical run here:

```
/ \texttt{glade/collections/cmip/CMIP6/CMIP/NCAR/CESM2/historical/r10i1p1f1/LImon/snd/gn/latest} \\
```

4:52

There are four files within this directory:

```
snd_Llmon_CESM2_historical_r10i1p1f1_gn_185001-189912.nc snd_Llmon_CESM2_historical_r10i1p1f1_gn_195001-199912.nc snd_Llmon_CESM2_historical_r10i1p1f1_gn_190001-194912.nc snd_Llmon_CESM2_historical_r10i1p1f1_gn_200001-201412.nc for the historical 164 years. You can just look at the last file (2000 to 2014) data for the historical run.
```

4:54

The future runs are here:

cd

```
/ \texttt{glade/collections/cmip/CMIP6/ScenarioMIP/NCAR/CESM2/ssp585/r10i1p1f1/LImon/snd/gn/latest} \\
```

4:54

This directory has 2 files:

```
snd_Llmon_CESM2_ssp585_r10i1p1f1_gn_201501-206412.nc
snd_Llmon_CESM2_ssp585_r10i1p1f1_gn_206501-210012.nc
```

You can just use the second file and subset the data for the last 15 years (2086 to 2100) for the comparison to the historical run

