

Exercise 1: ncview and ncBrowse

Aim: Introduce the use of ncview and ncBrowse to view NetCDF files

Issues covered:

- Working with ncview
- Working with ncBrowse

1. Let's look at the contents of an existing NetCDF file with ncview.

NOTE: click the "OK" or "Cancel" buttons in ncview to close a window. If you use the "X" in the top-right corner it closes the *entire application*!

- Open the file "example_data/tas_rcp45_2055_mon_avg_change.nc" with ncview.
- The file contains 12 time steps. Run an animation through the time steps.
- Slow the animation down so that you can view it.
- Click through time steps individually.
- Note that you can also adjust the selected time by right/left clicking on the "Current" cell in the time row of Dimensions panel.
- Modify the colour scale to your liking.
- Invert the colours.
- Change the Range on the colour scale.
- Print your plot to a postscript file. You view your output separately using the "display" command.
- Select a plot using different axes, e.g.: time vs latitude. Note that you can click through the different longitudes

2. Let's use ncBrowse to look at some agricultural emissions data.

- Open the file "example_data/example_data/n2o_emissions.nc" with ncBrowse.
- Select the "n2o_urea" variable.
- Plot the "n2o_urea" variable.

Solution 1: ncview and ncBrowse

1.

```
$ ncview example_data/tas_rcp45_2055_mon_avg_change.nc &  
$ display ncview.tas.ps &
```

2.

```
$ ncBrowse example_data/n2o_emissions.nc &
```