Exercise: 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*!

a. Open the file "`example_data/tas_rcp45_2055_mon_avg_change.nc`" with ncview.
b. The file contains 12 time steps. Run an animation through the time steps.
c. Slow the animation down so that you can view it.
d. Click through time steps individually.
e. Note that you can also adjust the selected time by right/left clicking on the "Current" cell in the time row of Dimensions panel.
f. Modify the colour scale to your liking.
g. Invert the colours.
h. Change the Range on the colour scale.
i. Print your plot to a postscript file. You view your output separately using the "display" command.
j. 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.

a. Open the file "`example_data/example_data/n2o_emissions.nc`" with ncBrowse.
b. Select the "`n2o_urea`" variable.
c. Plot the "`n2o_urea`" variable.

Solution: 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 &
```