**EOBS:**

Types of NC files:

Tx maximum air temperature

Tg mean air temperature

Tn minimum air temperature

Elev – Elevation metres

Pp - sea level pressure hPa

Rr – rainfall mm

**FILES\_FOR\_GLOBAL\_RUNS**

GLOBAL\_SPINUP\_SCH\_FILES

These are DayCent spinup schedule files (natural vegetation) for global land use types.

Gridcell-specific **site.100** files and weather files should be copied into the **site.100** file and weather file listed in the schedule file before running the simulation.

Land use (lu) types have northern and southern hemisphere counterparts.

\* psh\_lu\*.sch are southern hemisphere schedule files

\* pnh\_lu\*.sch are northern hemisphere schedule files

The natural vegetation (lu) type for each 0.5x0.5 degree grid cell are stored in the file cltveg.svf

cltveg.svf CSV file of global grid

NCOLS 720

NROWS 360

XLLCORNER -179.75

YLLCORNER -89.75

CELLSIZE 0.5

NODATA\_VALUE " << NODATA << endl;

Integer values 2-21

Pn/sh\_lu2.sch to pn/sh\_lu35.sch

GLOBAL\_SPINUP\_SITE100\_FILES

These are DayCent **site.100** files for global landuse types. These are a template for each land use type. The weather statistics should be updated to create a unique **site.100** file for each grid cell.

pnh\_lu\*.100 are site.100 files for the northern hemisphere. The southern hemisphere files are identical to the northern hemisphere site.100 files.

Pn/sh\_lu2.100 to pn/sh\_lu35.100

SITESOIL

The mksitesoil program can be used to create **site.100** and **soils.in** files for DayCent.

The perl script **run\_mksitesoil.pl** is an example that shows how to run the **mksitesoil** program over and over using template **site.100** files to create grid-cell specific **site.100** files. It will need to be modified to read the data that you have available for your sites. This perl script gets sand, silt, clay from the site.100 file. You will probably need to read those values from a “run file” instead.

The perl script creates the site\_soil.txt file that mksitesoil needs from other input files, some of which I have included as an example. As it generates new site.100 and soils.in files it renames them and copies them into different folders.

The script requires perl to be installed. To execute this perl script, type the following at the command line

**perl run\_mksitesoil.pl**

You can install Strawberry Perl on a PC quite easily.