**Metadata  
File identifier  
Metadata language** English   
**Date stamp** 2015-11-06

**Filename Convention**

The NARCliM data (csv files) is filed using the following directory structure:

{Version} \_ {Domain} \_ {Model} \_ {Measure} \_ {Actual/Change} \_ {Epoch} \_ {Variable} \_ {Unit} \_ {Annual/Season}\_{Region Prefix}\_{Region}

i.e. v00120151106\_d02\_multimodel\_mean\_act\_1990-2009\_Recharge\_mm\_JJA\_NSW\_0 v00120151106\_d02\_multimodel\_mean\_chg\_2020-2039\_SurfaceFlow\_mm\_ANN\_LLS\_0

where

* {Version} is a 12 character header used for version control
* {Domain} is one of {d01,d02}; d01 indicates the 50km resolution CORDEX domain, d02 indicates the 10km resolution NARCliM domain
* {Model} is the combination of GCM (reanalysis, MIROC3.2, ECHAM5, CCCMA3.1, CSIRO3.0) and RCM (R1, R2, R3). Multimodel represents all model combinations
* {Measure} is the representation of the method of combining data from multiple models (i.e. mean, median, mode)
* {Actual/Change} represents whether it is the epoch’s climatological average (actual; cli) or the difference between the 1990-2009 epoch and 2020-2039 or 2060-2079 epochs (change; chg)
* {Epoch} is one the three temporal period; 1990-2009, 2020-2039 and 2060-2079
* {Variable} is the name of the climate variable
  + Recharge
  + Surface Flow
* {Unit} is the unit of measure for the variable
* {Annual/Season} can be ann, DJF, MAM, JJA, SON
  + ANN = Annual
  + DJF = December, January and February (Southern Hemisphere summer)
  + MAM = March, April and May (Southern Hemisphere autumn)
  + JJA = June, July and August (Southern Hemisphere winter)
  + SON = September, October and November (Southern Hemisphere spring)
* {Region Prefix} New South Wales = NSW, Local Land Services = LLS, State Planning Regions = SPR, Major River Catchments = MAJRVR
* {Region} NSW as a whole = 0

Note: All files contained in this folder are: v00120151106\_d02\_multimodel\_mean

**Fieldnames**The csv files contain specific length heading names to comply with ARCGIS table attribution. Field names in the csv files are describes as below.

|  |  |
| --- | --- |
| Latitude | Latitude WGS1984 - NARCLiM 10km Cell Center Rotated Pole |
| Longitude | Longitude WGS1984 - NARCLiM 10km Cell Center Rotated Pole |
| State\_Planning | NSW State Planning Regions |
| Major\_River | NSW Major River Catchments |
| LLS | NSW Local Land Services |
| mRCHG1990 | multimodel mean annual Recharge 1990-2009 |
| achgRC2020 | multimodel mean annual change Recharge 1990-2009 to 2020-2039 |
| achgRC2060 | multimodel mean annual change Recharge 1990-2009 to 2060-2079 |
| DJFmRC1990 | multimodel mean Summer Recharge 1990-2009 |
| aDJFRC2020 | multimodel mean Summer change Recharge 1990-2009 to 2020-2039 |
| aDJFRC2060 | multimodel mean Summer change Recharge 1990-2009 to 2060-2079 |
| MAMmRC1990 | multimodel mean Autumn Recharge 1990-2009 |
| aMAMRC2020 | multimodel mean Autumn change Recharge 1990-2009 to 2020-2039 |
| aMAMRC2060 | multimodel mean Autumn change Recharge 1990-2009 to 2060-2079 |
| JJAmRC1990 | multimodel mean Winter Recharge 1990-2009 |
| aJJARC2020 | multimodel mean Winter change Recharge 1990-2009 to 2020-2039 |
| aJJARC2060 | multimodel mean Winter change Recharge 1990-2009 to 2060-2079 |
| SONmRC1990 | multimodel mean Spring Recharge 1990-2009 |
| aSONRC2020 | multimodel mean Spring change Recharge 1990-2009 to 2020-2039 |
| aSONRC2060 | multimodel mean Spring change Recharge 1990-2009 to 2060-2079 |
| mSROFF1990 | multimodel mean annual Surface Flow 1990-2009 |
| achgSR2020 | multimodel mean annual change Surface Flow 1990-2009 to 2020-2039 |
| achgSR2060 | multimodel mean annual change Surface Flow 1990-2009 to 2060-2079 |
| DJFmSR1990 | multimodel mean Summer Surface Flow 1990-2009 |
| aDJFSR2020 | multimodel mean Summer change Surface Flow 1990-2009 to 2020-2039 |
| aDJFSR2060 | multimodel mean Summer change Surface Flow 1990-2009 to 2060-2079 |
| MAMmSR1990 | multimodel mean Autumn Surface Flow 1990-2009 |
| aMAMSR2020 | multimodel mean Autumn change Surface Flow 1990-2009 to 2020-2039 |
| aMAMSR2060 | multimodel mean Autumn change Surface Flow 1990-2009 to 2060-2079 |
| JJAmSR1990 | multimodel mean Winter Surface Flow 1990-2009 |
| aJJASR2020 | multimodel mean Winter change Surface Flow 1990-2009 to 2020-2039 |
| aJJASR2060 | multimodel mean Winter change Surface Flow 1990-2009 to 2060-2079 |
| SONmSR1990 | multimodel mean Spring Surface Flow 1990-2009 |
| aSONSR2020 | multimodel mean Spring change Surface Flow 1990-2009 to 2020-2039 |
| aSONSR2060 | multimodel mean Spring change Surface Flow 1990-2009 to 2060-2079 |

**Coordinate System/Rotated Pole**The csv NARCliM files contain latitude/longitude points at a resolution of 10km. For consistency with GCMs, the points are on a rotated pole. This means the points do not align with either north/south or east/west lines. As such, the points will not directly convert to a GIS based grid which is always assumed to be on an unrotated pole. Therefore, conversion of the NARCliM 10km points to a regular GIS grid requires mathematical interpolation. Rather than interpolating large volumes of data, theissen polygons can be constructed around each NARCliM point to produce a shapefile or a 10km quasi-grid on a rotated pole.

Methods for conversion of Rotated Pole to Regular Grid can be sourced from <http://cordex-australasia.wikidot.com/start>.

**Disclaimer:**OEH has prepared this data in good faith, exercising all due care and attention, but no representation or warranty, express or implied, is made to the relevance, accuracy, completeness or fitness for purpose of this information in respect of any particular users circumstances. With respect to the content of this data, it should be noted that some projections currently involves a considerable degree of uncertainty.