Variables

All data is for the AMON group: Monthly Mean Atmospheric Fields and Some Surface Fields

|  |  |  |
| --- | --- | --- |
| Variable | Description | Units |
| pr | At surface; includes both liquid and solid phases from all types of clouds (both large-scale and convective) | kg m-2 s-1 |
| tas | Air temperature | K |
| tasmin | Monthly mean of the daily-minimum near-surface air temperature | K |
| tasmax | Monthly mean of the daily-maximum near-surface air temperature | K |

Time Periods

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| Time Period |
| 2020 – 2039 |
| 2040 – 2059 |
| 2060 – 2079 |
| 2080 – 2099 |

Models

|  |  |  |  |
| --- | --- | --- | --- |
| PR | TAS | TASMAX | TASMIN |
| bcc-csm1-1-m | access1-3 | access1-3 | access1-3 |
| bcc-csm1-1 | bcc-csm1-1-m | bcc-csm1-1-m | bcc-csm1-1-m |
| bnu-esm | bcc-csm1-1 | bcc-csm1-1 | bcc-csm1-1 |
| canesm2 | bnu-esm | bnu-esm | bnu-esm |
| cnrm-cm5 | canesm2 | canesm2 | canesm2 |
| csiro-mk3-6-0 | cnrm-cm5 | ccsm4 | ccsm4 |
| ipsl-cm5a-lr | csiro-mk3-6-0 | cesm1-bgc | cesm1-bgc |
| ipsl-cm5a-mr | ipsl-cm5a-lr | cesm1-cam5 | cesm1-cam5 |
| ipsl-cm5b-lr | ipsl-cm5a-mr | cnrm-cm5 | cnrm-cm5 |
| miroc-esm-chem | ipsl-cm5b-lr | csiro-mk3-6-0 | csiro-mk3-6-0 |
| miroc-esm | miroc-esm-chem | ipsl-cm5a-lr | fio-esm |
| miroc5 | miroc-esm | ipsl-cm5a-mr | ipsl-cm5a-lr |
| mri-cgcm3 | miroc5 | ipsl-cm5b-lr | ipsl-cm5a-mr |
| mri-esm1 | mpi-esm-lr | miroc-esm-chem | ipsl-cm5b-lr |
|  | mpi-esm-mr | miroc-esm | mpi-esm-lr |
|  | mri-cgcm3 | miroc5 | mpi-esm-mr |
|  |  | mpi-esm-lr | mri-cgcm3 |
|  |  | mpi-esm-mr | noresm1-m |
|  |  | mri-cgcm3 |  |
|  |  | noresm1-m |  |

Representative Concentration Pathways (RCPs)

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| RCP |
| 2.6 W/m2 |
| 4.5 W/m2 |
| 6.0 W/m2 |
| 8.5 W/m2 |

Ensembles

Ensembles were made in 10th, 50th, 90th percentiles for each of the RCPs

|  |
| --- |
| Percentile |
| 10th |
| 50th |
| 90th |

Resolution

Models were reset to rasters with cell dimensions of: 0.5 x 0.5 degrees. This is either higher or lower than the resolution of the original models. The disaggregation process did NOT involve a resampling routine on the data.

Clipped Data

Data is available in three variations. The *n* on folder represents the start year of the decade. So outgeotiff\_20 contains all the data for the 2020-2039 timeframe

|  |  |
| --- | --- |
| Folder Name | Description |
| outgeotiff\_*n* | Full time series. Each raster file contains 240 layers: one for each month in the 20 year span. The data points are clipped internally to the boundaries of Bangladesh |
| outgeotiff\_cblend*n* | Full time series. Each raster file contains 240 layers: one for each month in the 20 year span. The data points are clipped such that the data points blend by about 2 degrees over the border of Bangladesh |
| outgeotiff\_monthtrendstacked\_cblend\_*n* | Annual monthly trends. Each raster contains 12 layers, one for each month of the year. Each layer represents the monthly average of the from the full time-series data |

Below is an image example of the blended data points, in which the raster covers about 2 degrees beyond the boundary edge of Bangladesh

