3.2 Time Series Precipitation

The following pages show time series plots for annual precipitation based on simulations using the 20C3M (historic) and A1B (future) scenarios for each of the 20 models for:

- Global precipitation, and
- Australian precipitation including continental observations per the Bureau of Meteorology (2008) up to 2007.
An Atlas of the Global Water Cycle

Time Series Precipitation - Australia

- Observed
- CGCM3.1(t63)_Set1
Time Series Precipitation - World

P (mm/yr)

Year

1900 1920 1940 1960 1980 2000 2020 2040 2060 2080 2100
Time Series Precipitation - World

CSIRO-Mk3.0_Set1
Time Series Precipitation - Australia

Observed

CSIRO-Mk3.0_Set1

P (mm/yr)

Year

1900 1920 1940 1960 1980 2000 2020 2040 2060 2080 2100
Time Series Precipitation - Australia

- **Observed**
- **CSIRO-Mk3.5_Set1**

![Graph showing time series precipitation in Australia with observed and modeled data](image-url)

The graph shows the precipitation trends from 1900 to 2100, with observed data represented by black dots and modeled data by blue circles. The x-axis represents the years, ranging from 1900 to 2100, and the y-axis represents precipitation in mm/yr, ranging from 0 to 1400 mm/yr.
Time Series Precipitation - Australia

- Observed
- GFDL-CM2.0_Set1

Year
P (mm/yr)
Time Series Precipitation - World

- GISS-EH_Set1
- GISS-EH_Set2
- GISS-EH_Set3
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Time Series Precipitation - Australia

- Observed
- GISS-EH_Set1
- GISS-EH_Set2
- GISS-EH_Set3

Year

P (mm/yr)
Time Series Precipitation - World

Year

P (mm/yr)
Time Series Precipitation - World

Year

P (mm/yr)
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Time Series Precipitation - Australia

Observed

INGV-ECHAM4_Set1
Time Series Precipitation - Australia

Year
1900 1920 1940 1960 1980 2000 2020 2040 2060 2080 2100

P (mm/yr)
0 200 400 600 800 1000 1200 1400

Observed INM-CM3.0_Set1
Time Series Precipitation - Australia

- Observed
- IPSL-CM4_Set1

Year

P (mm/yr)
Time Series Precipitation - Australia

- Observed
- MIUB-ECHO-G_Set1
- MIUB-ECHO-G_Set2
- MIUB-ECHO-G_Set3
An Atlas of the Global Water Cycle

Time Series Precipitation - World

Year
P (mm/yr)

- MPI-ECHAM5_Set1
- MPI-ECHAM5_Set2
- MPI-ECHAM5_Set3
- MPI-ECHAM5_Set4
Time Series Precipitation - Australia

- Observed
- MPI-ECHAM5_Set1
- MPI-ECHAM5_Set2
- MPI-ECHAM5_Set3
- MPI-ECHAM5_Set4

Year
0 200 400 600 800 1000 1200 1400
1900 1920 1940 1960 1980 2000 2020 2040 2060 2080 2100

P (mm/yr)
0 200 400 600 800 1000 1200 1400

1900 1920 1940 1960 1980 2000 2020 2040 2060 2080 2100
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Time Series Precipitation - World

- NCAR-CCSM3.0_Set1
- NCAR-CCSM3.0_Set2
- NCAR-CCSM3.0_Set3
- NCAR-CCSM3.0_Set4
- NCAR-CCSM3.0_Set5
- NCAR-CCSM3.0_Set6
- NCAR-CCSM3.0_Set7

P (mm/yr)

Year

1900 1920 1940 1960 1980 2000 2020 2040 2060 2080 2100
An Atlas of the Global Water Cycle

Time Series Precipitation - Australia

- Observed
- NCAR-CCSM3.0_Set1
- NCAR-CCSM3.0_Set2
- NCAR-CCSM3.0_Set3
- NCAR-CCSM3.0_Set4
- NCAR-CCSM3.0_Set5
- NCAR-CCSM3.0_Set6
- NCAR-CCSM3.0_Set7

Graph showing time series precipitation for Australia with different sets of data represented by various lines on the graph.
Time Series Precipitation - World

UKMO-HADCM3_Set1
An Atlas of the Global Water Cycle

Time Series Precipitation - Australia

- Observed
- UKMO-HADCM3_Set1
Time Series Precipitation - Australia

- Observed
- HADGEM1_Set1