

Model

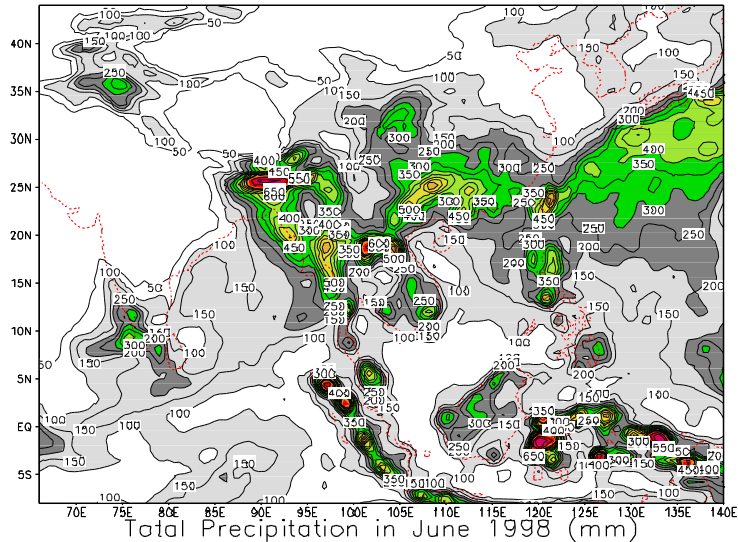
- **RegCM2_NCC**, developed by China National Climate Center and City University of Hong Kong, based on the NCAR RegCM2.
- **20 vertical levels, 60-km horizontal resolution and a domain size of 135×165 grid points.**
- **Initial and lateral boundary conditions: ECMWF ERA40 reanalysis data. Sea-surface temperature data: NOAA Optimum Interpolation SST V2 weekly mean data, with a 1° spatial resolution.**
- **Cumulus parameterization: Anthes-Kuo**
- **Each experiment is an ensemble run with 8 members of different starting days. The experiments are performed for the period of 1 April to 30 June.**

Total Precipitation (mm) in May & June 1998

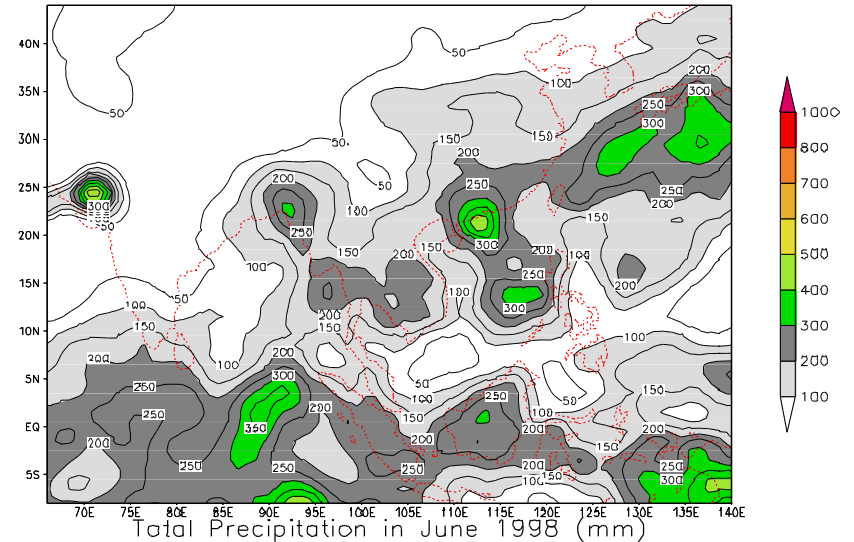
Left: Control Experiment (CTRL)

Right: GPCP Observations

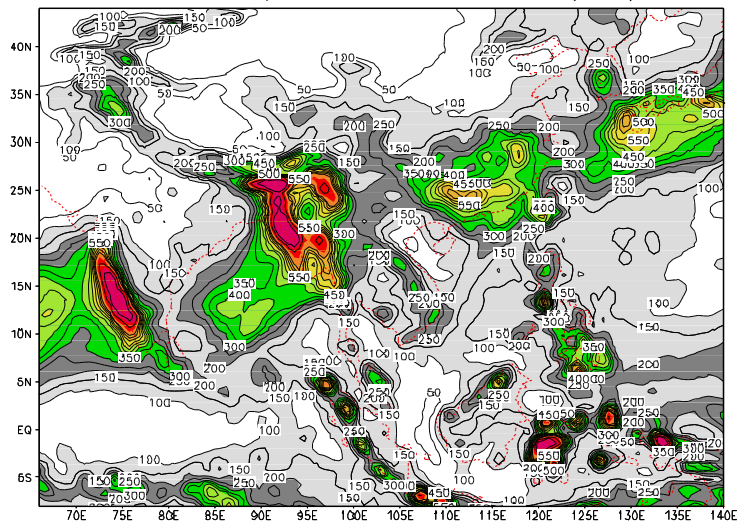
Total Precipitation in May 1998 (mm)



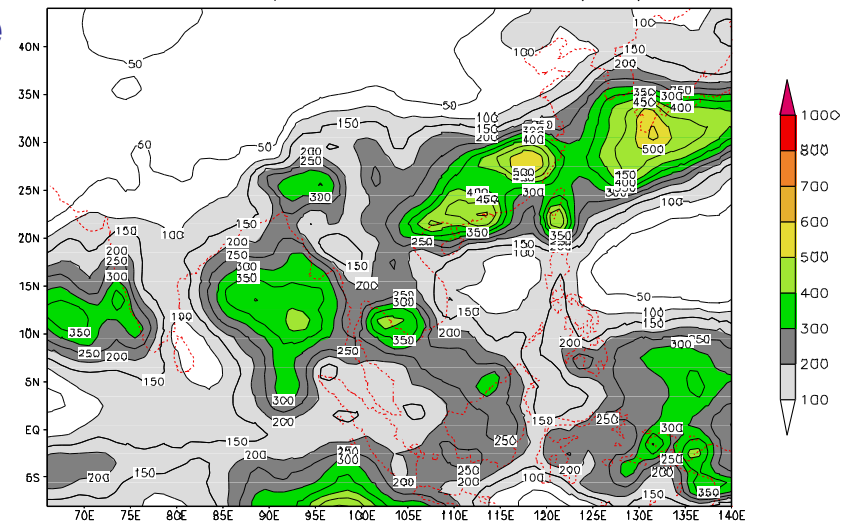
Total Precipitation in May 1998 (mm)



Total Precipitation in June 1998 (mm)

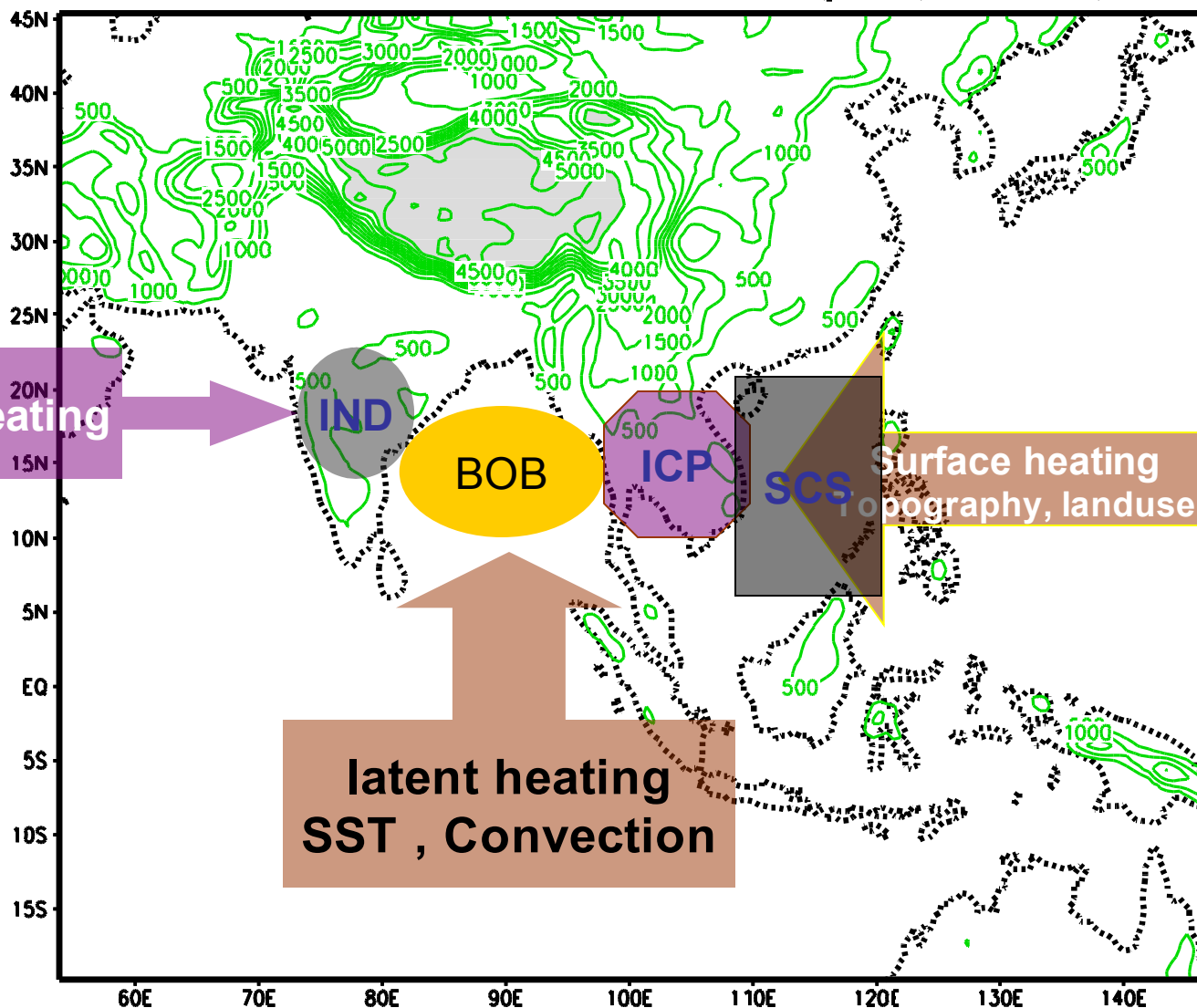


Total Precipitation in June 1998 (mm)

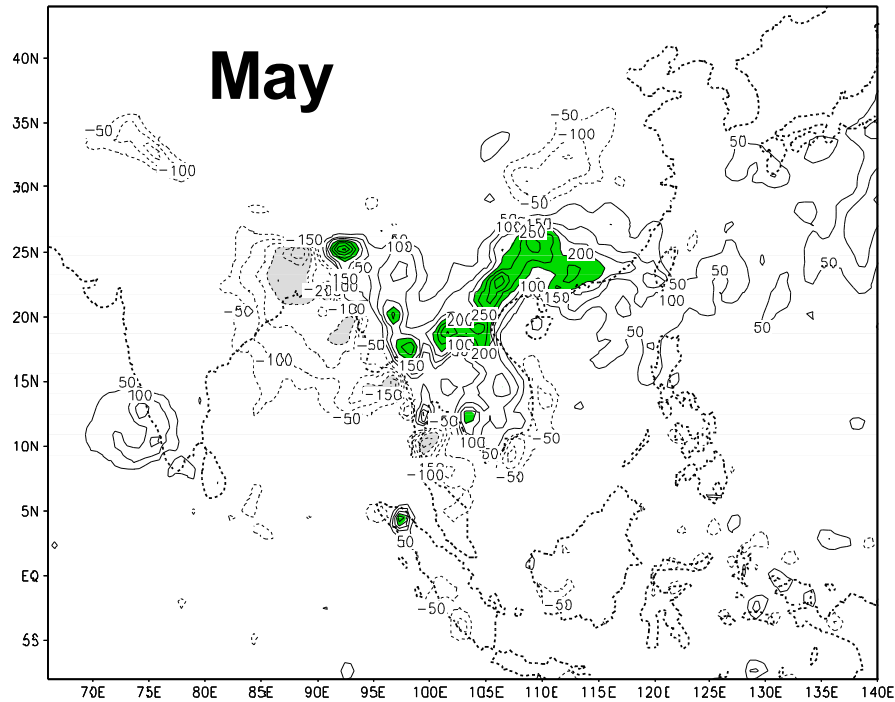


The Upstream Areas

Model domain and terrain height (Unit: m)

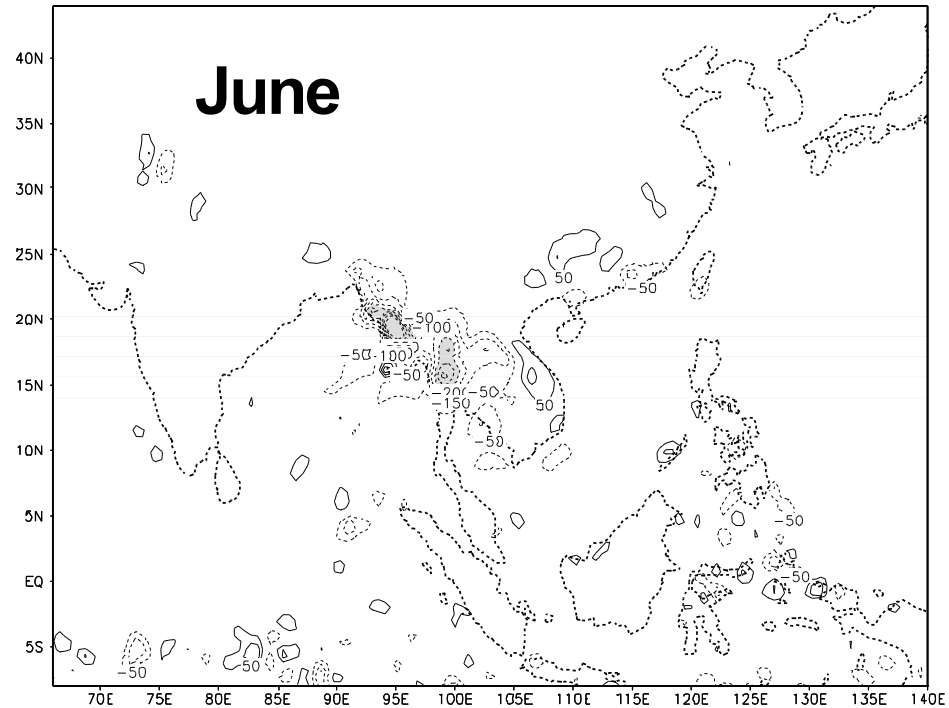


Differences in Total Precipitation in May 1998 (mm)



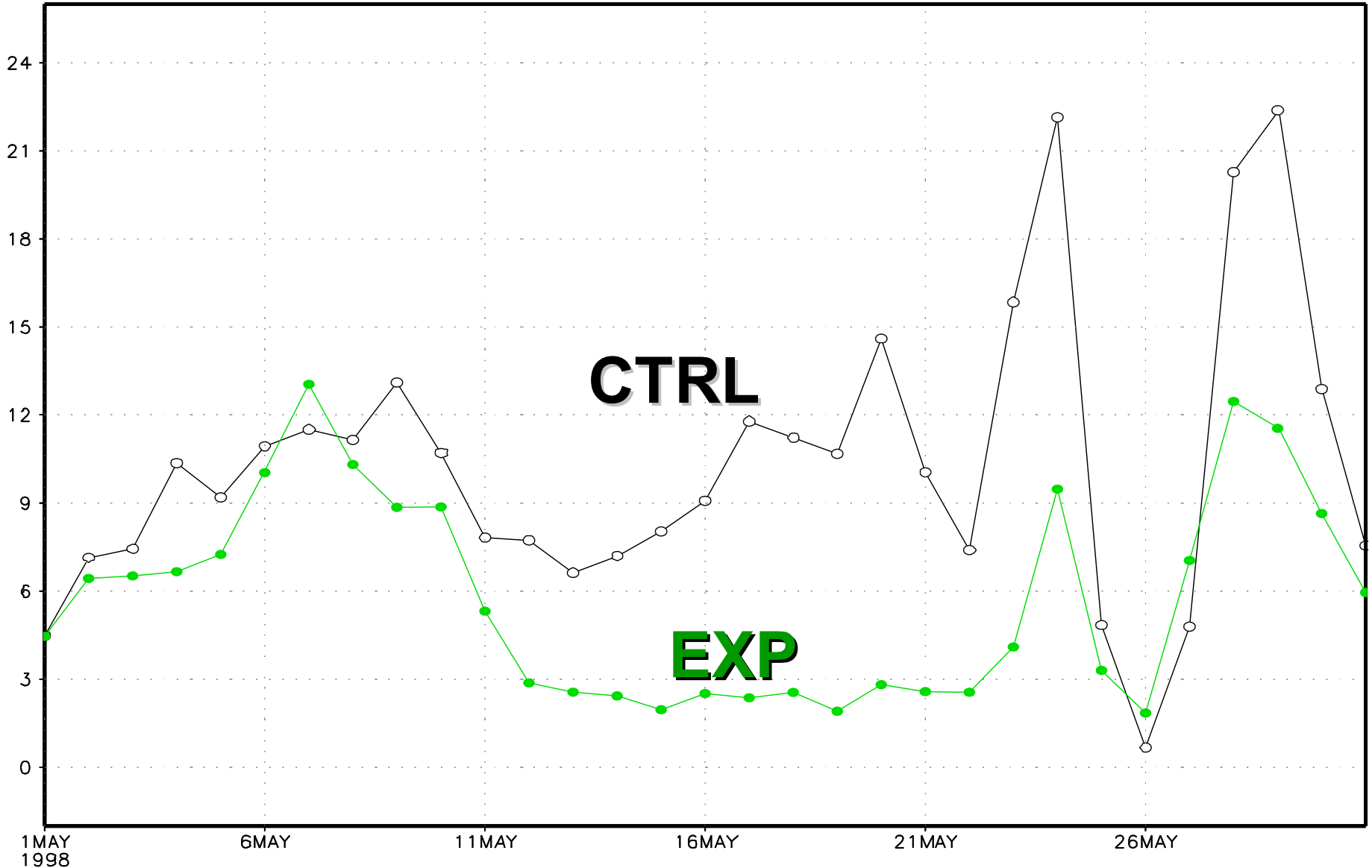
Precipitation Differences (CTRL-EXP)

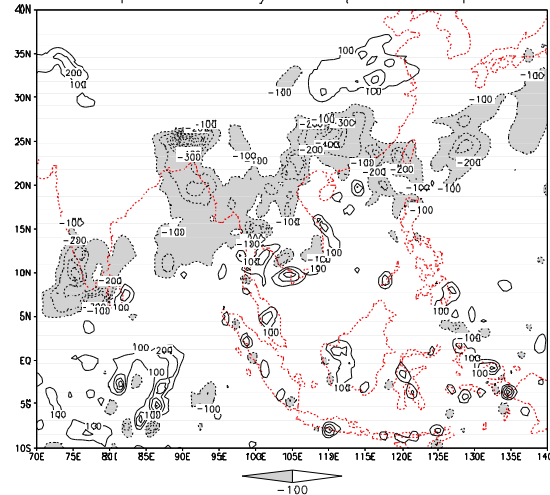
Differences in Total Precipitation in June 1998 (mm)



May Precipitation (20-25N, 110-120E)

Daily Precipitation (mm) over SC (20–25N,110–120E)

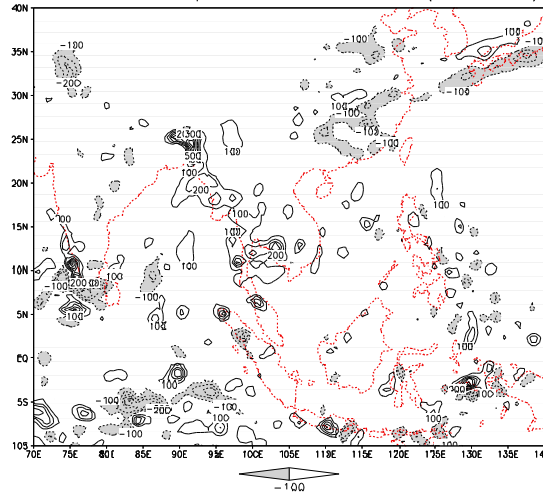




Rainfall Diff (EXP-CTRL) in June

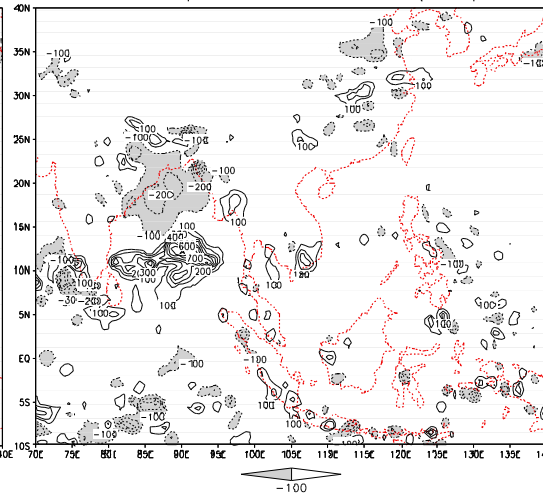
ICHfx

Diff. Total Precipitation in June 1998 (ICHfx-CTL)



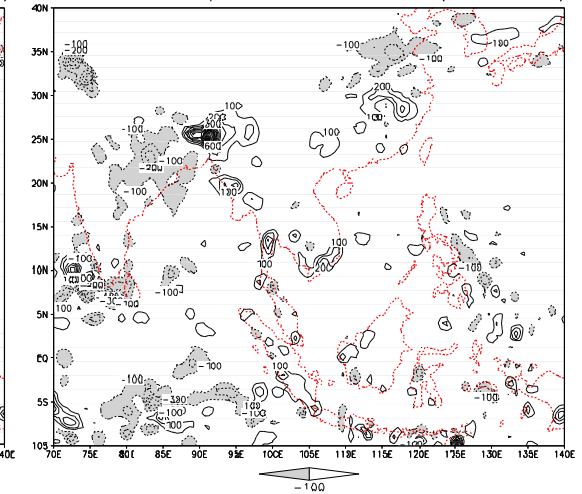
BOBqfx

Diff. Total Precipitation in June 1998 (BOBqfx-CTL)



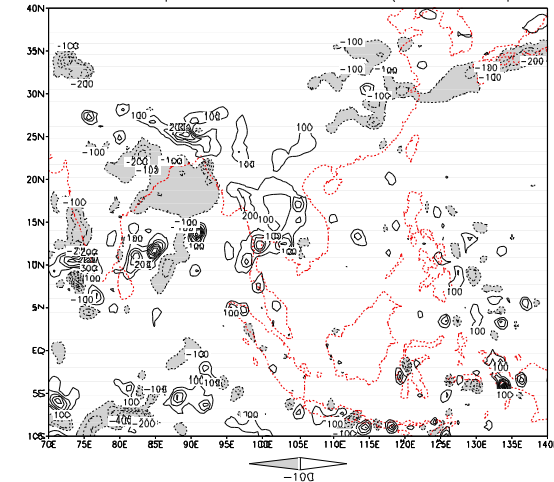
INDhfx

Diff. Total Precipitation in June 1998 (INDhfx-CTL)



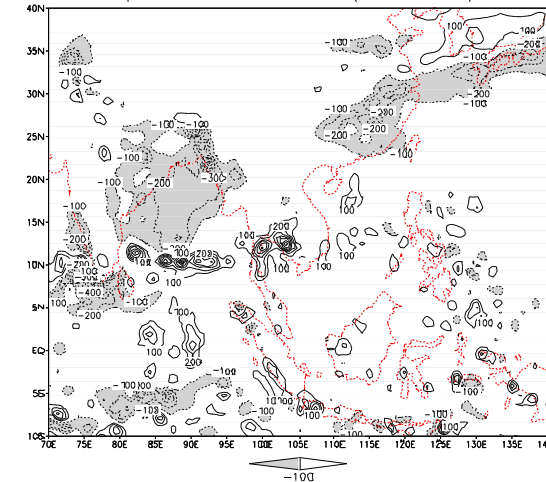
ICHfx + BOBqfx

Diff. Total Precipitation in June 1998 (ICHfx+BOBqfx-CTL)



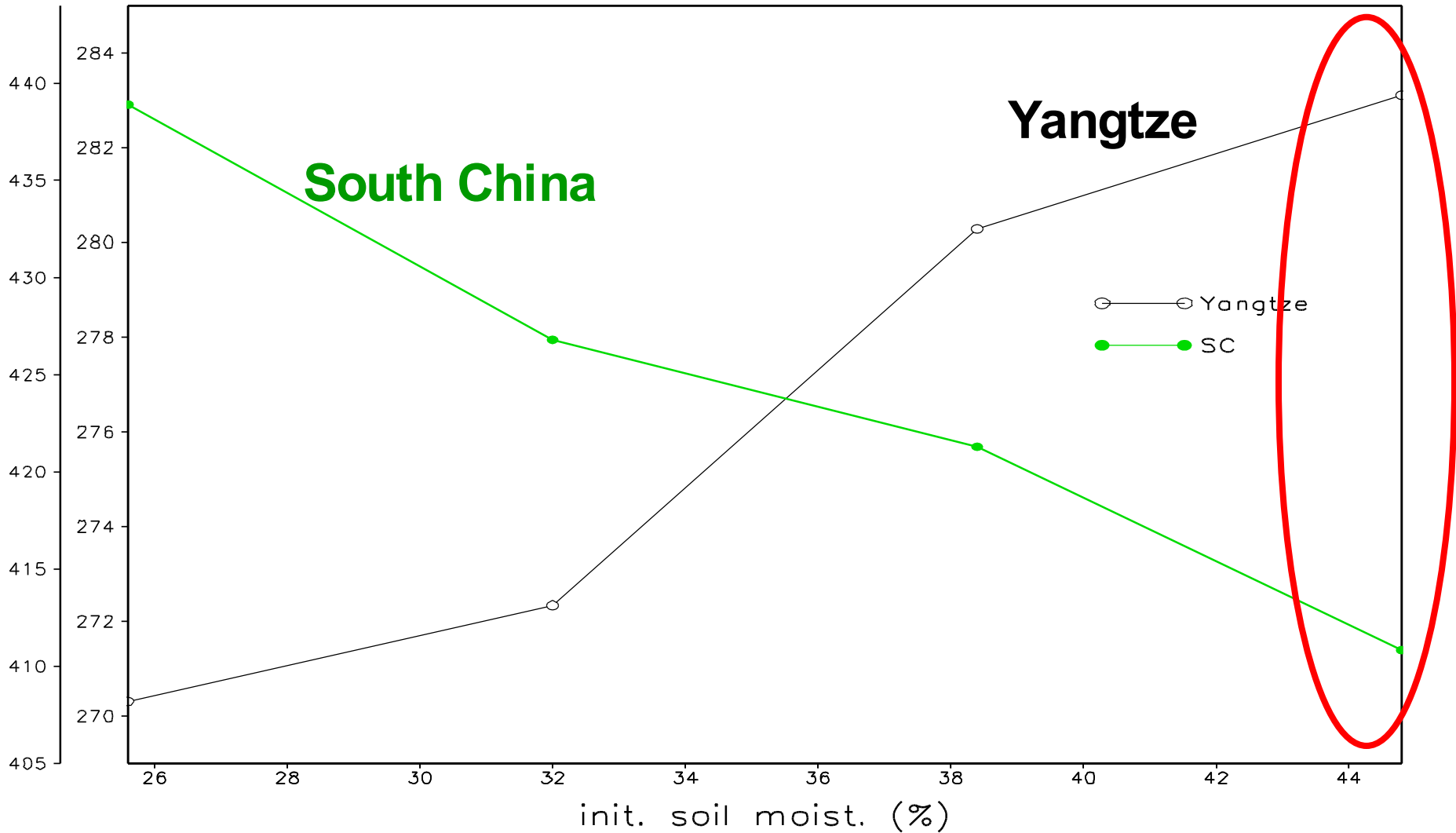
ICHfx+ BOBqfx+INDhfx

Diff. Total Precipitation in June 1998 (ICHfx+BOBqfx+INDhfx-CTL)



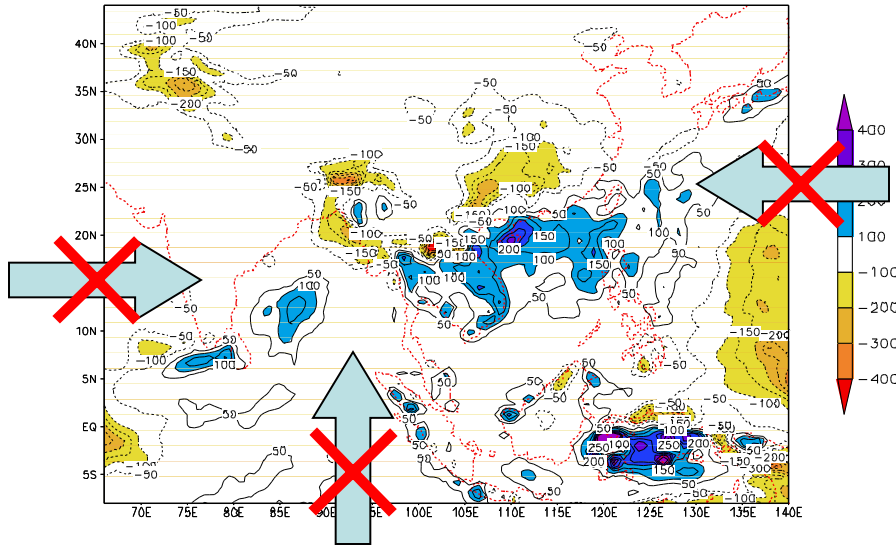
Total Precipitation over Yangtze River region (28-33N, 110-120E) and south China (22-27N, 108-118E)

Total Precip. in June 1998 (mm)

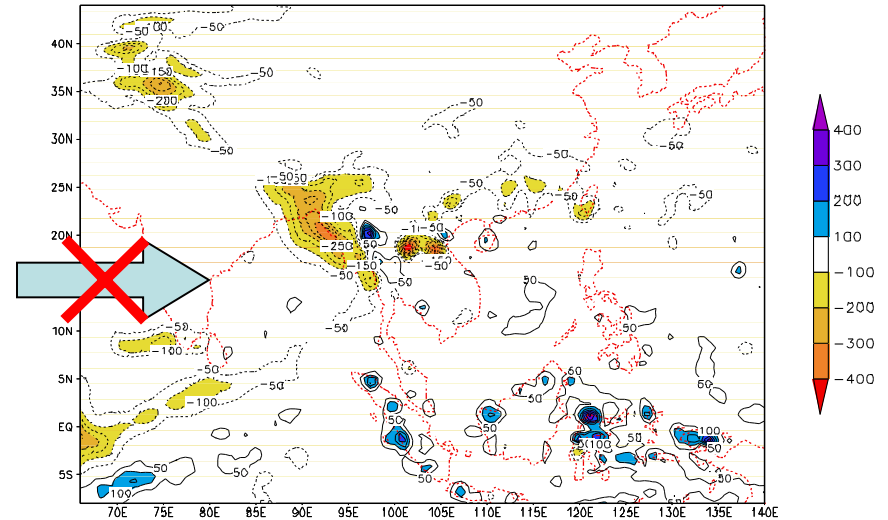


Difference in May 1998 rainfall (Expt minus CTRL)

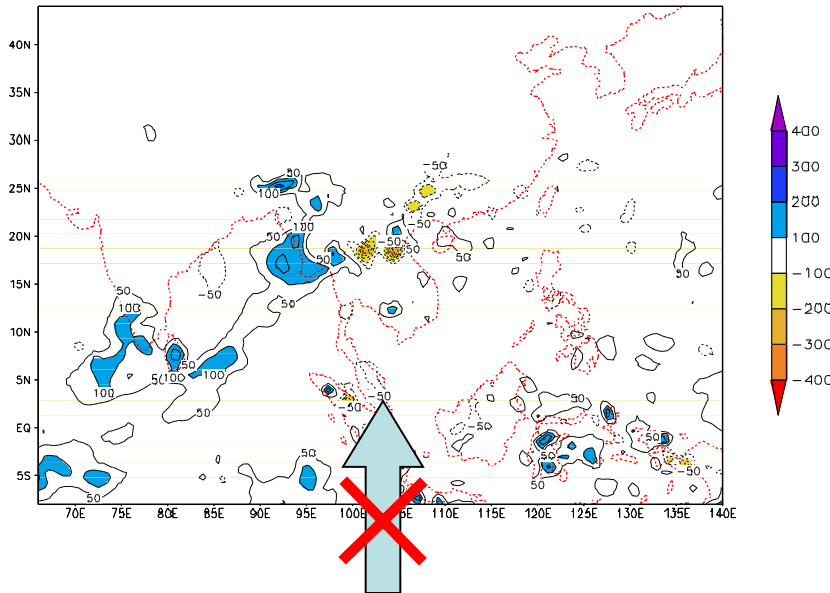
Differences in Total Precipitation in May 1998 (mm)



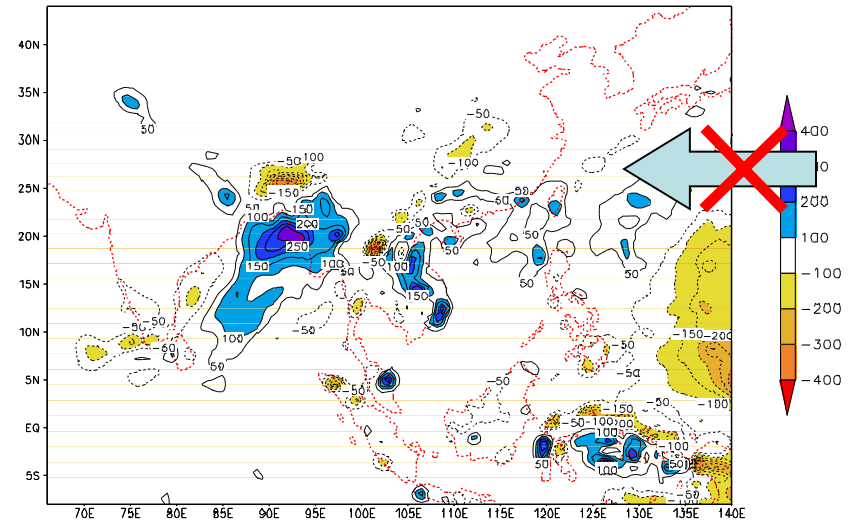
Differences in Total Precipitation in May 1998 (mm)



Differences in Total Precipitation in May 1998 (mm)

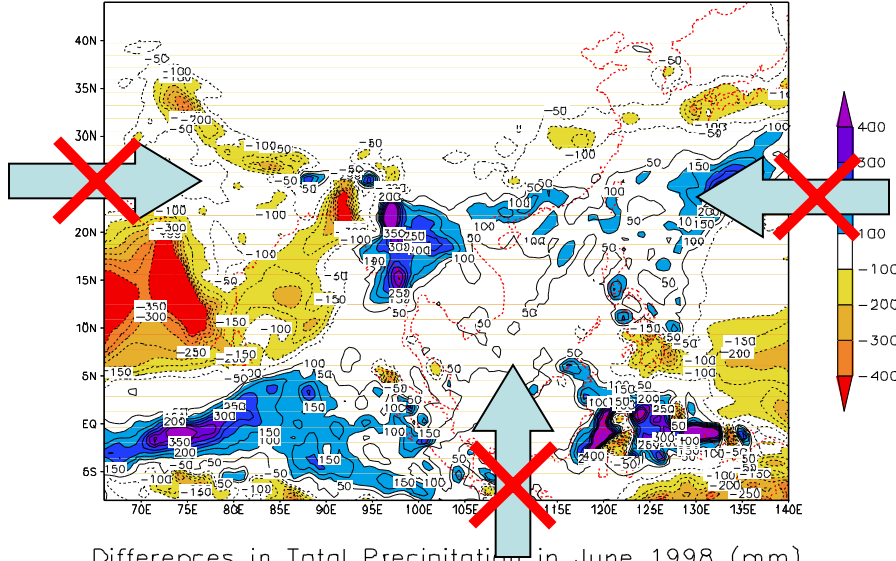


Differences in Total Precipitation in May 1998 (mm)

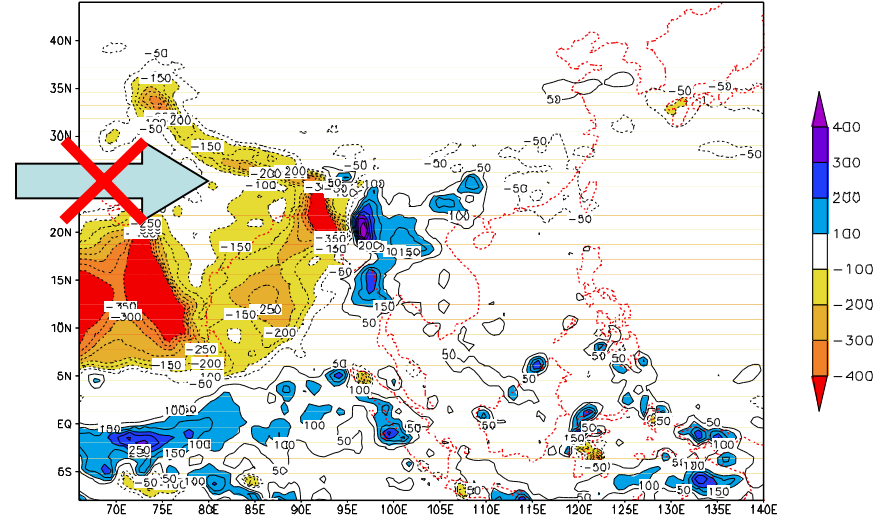


Difference in Jun 1998 rainfall (Expt minus CTRL)

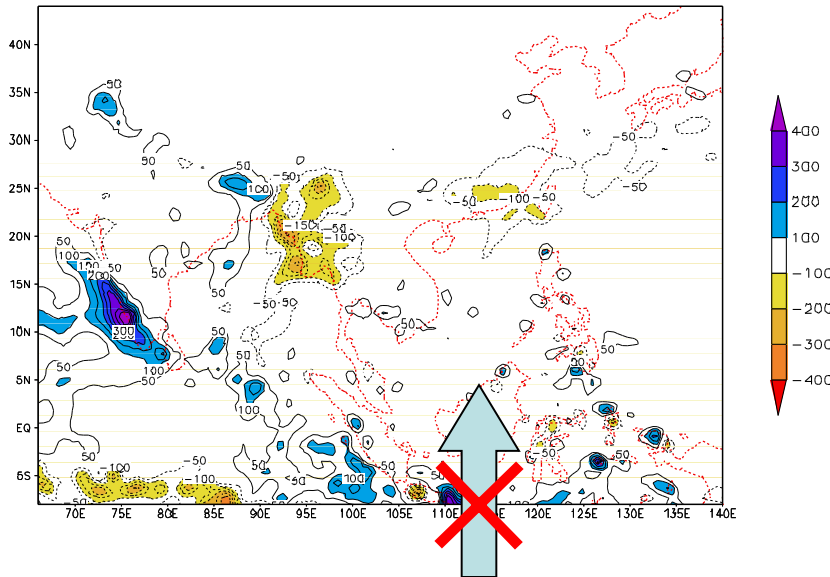
Differences in Total Precipitation in June 1998 (mm)



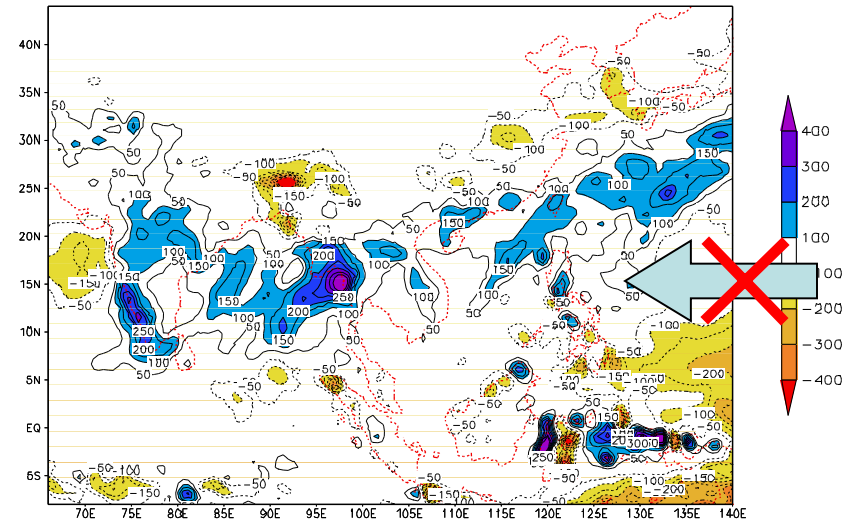
Differences in Total Precipitation in June 1998 (mm)



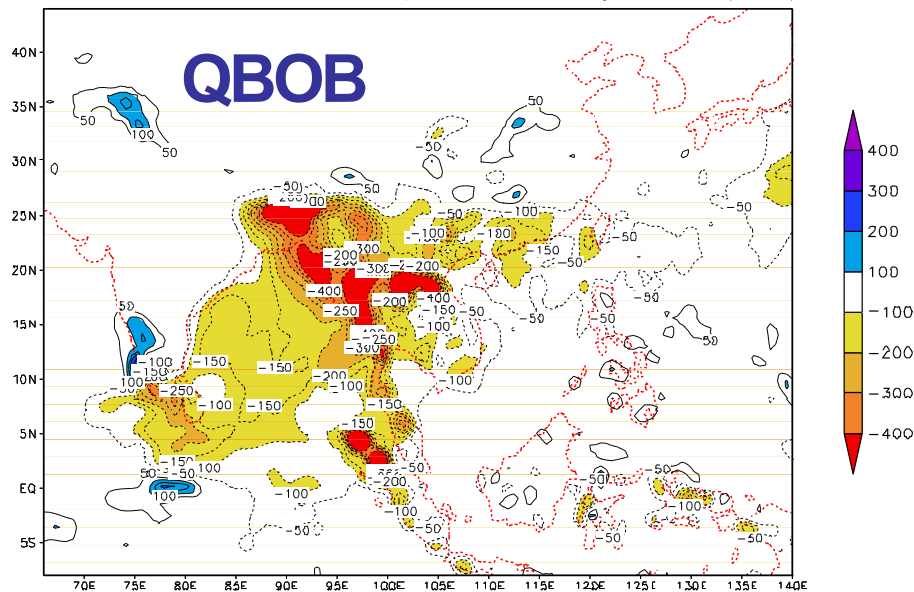
Differences in Total Precipitation in June 1998 (mm)



Differences in Total Precipitation in June 1998 (mm)

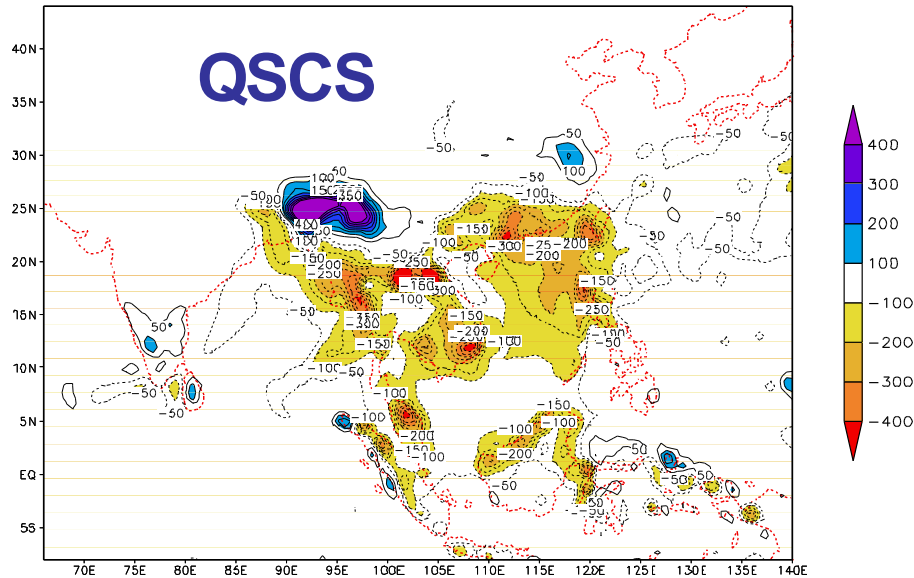


Differences in Total Precipitation in May 1998 (mm)

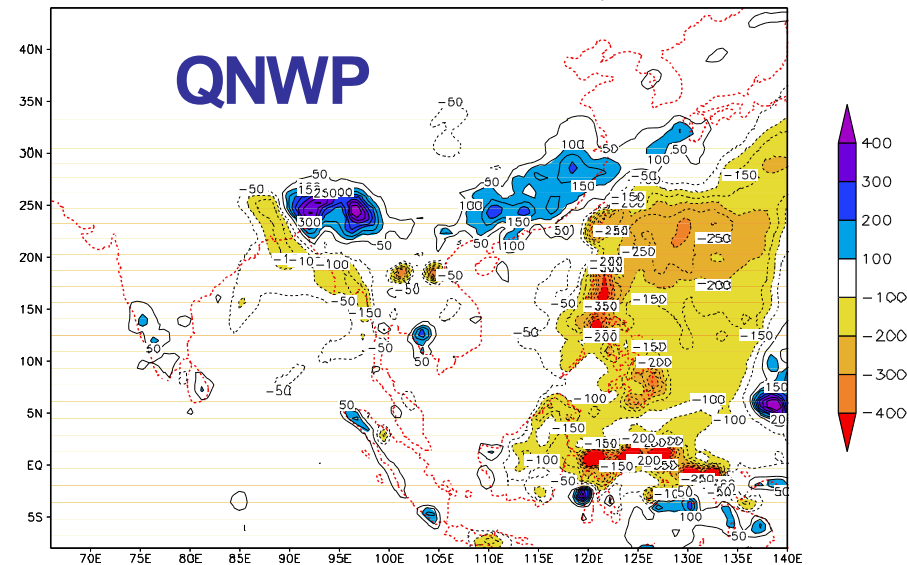


**Difference in May 1998
rainfall
(Expt minus CTRL)**

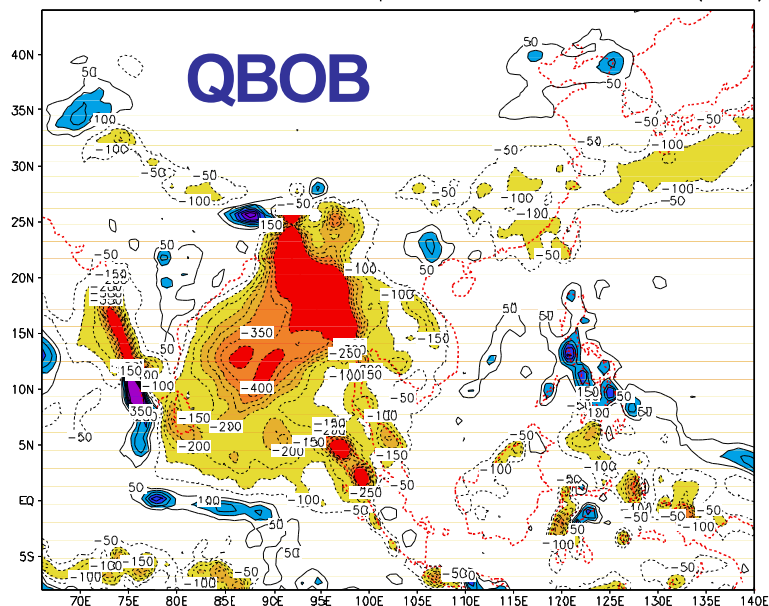
Differences in Total Precipitation in May 1998 (mm)



Differences in Total Precipitation in May 1998 (mm)

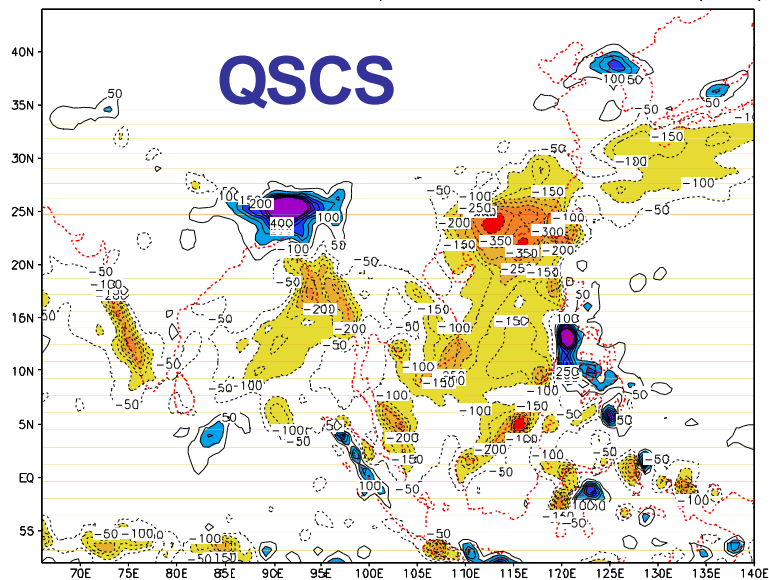


Differences in Total Precipitation in June 1998 (mm)



Difference in Jun 1998 rainfall (Expt minus CTRL)

Differences in Total Precipitation in June 1998 (mm)



Differences in Total Precipitation in June 1998 (mm)

