

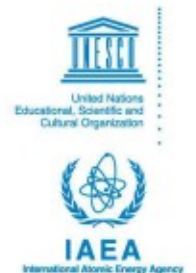
# Response of Tropical Precipitation to SST Anomalies in different Oceans using the RegCM4.3



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## Objectives

- Use of the tropical-band configuration of the RegCM4 to study the sensitivity of tropical precipitation to SST anomalies
- To study the impact of changes in specific ocean basin SSTs on tropical precipitation simulation
- To study the impact of ENSO SST anomalies in specific ocean basins on tropical precipitation simulation

## Experiment set 1 – Impact of SSTs

	Indian Ocean	Pacific Ocean	Atlantic Ocean	Atmosphere
6yr_Control	climatology	climatology	climatology	1997-2002
6yr_Pac	climatology	1997-2002	climatology	1997-2002
6yr_Atl	climatology	climatology	1997-2002	1997-2002
6yr_Ind	1997-2002	climatology	climatology	1997-2002
6yr_ALL	1997-2002	1997-2002	1997-2002	1997-2002

## Experiment Set 2 – Impact of El Nino SSTs

(1997 is El Nino year, 1990,1993 neutral)

Experiment name	Indian Ocean	Pacific Ocean	Atlantic Ocean	Atmosphere
Control90	climatology	climatology	climatology	1990
Ind_90Atm_97sst	1997	climatology	climatology	1990
Atl_90Atm_97sst	climatology	climatology	1997	1990
Pac_90Atm_97sst	climatology	1997	climatology	1990
ALL_90Atm_97sst	1997	1997	1997	1990

Experiment name	Indian Ocean	Pacific Ocean	Atlantic Ocean	Atmosphere
Control93	climatology	climatology	climatology	1993
Ind_93Atm_97sst	1997	climatology	climatology	1993
Atl_93Atm_97sst	climatology	climatology	1997	1993
Pac_93Atm_97sst	climatology	1997	climatology	1993
ALL_93Atm_97sst	1997	1997	1997	1993