CLIMATE APPLICATION IN MALAYSIA

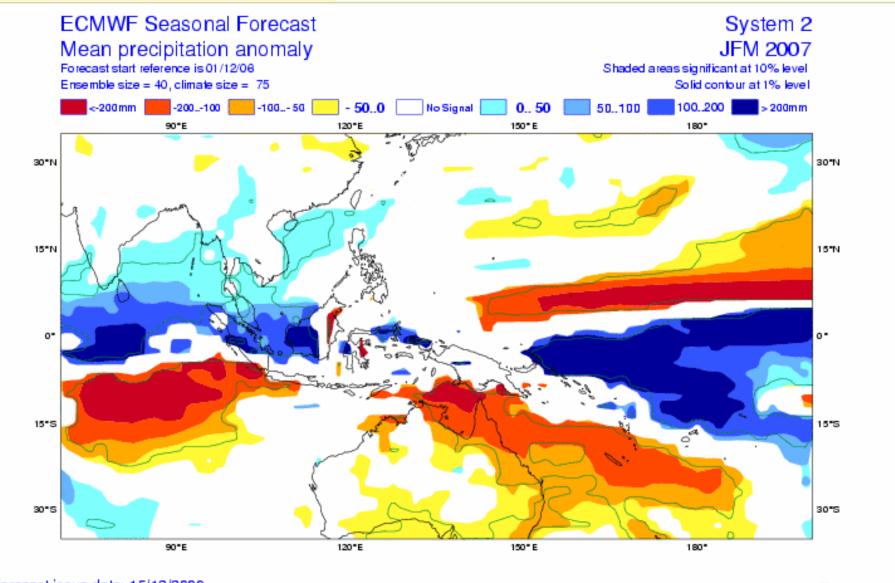
ZABANI MD. ZUKI MALAYSIAN METEOROLOGICAL DEPARTMENT There is no Climate Forecast Products in MMD Climate Forecast Products is obtained from Global Producing Centers (GPCs) likes;

- ECMWF

- NCEP/CPC
- TCC
- KMA

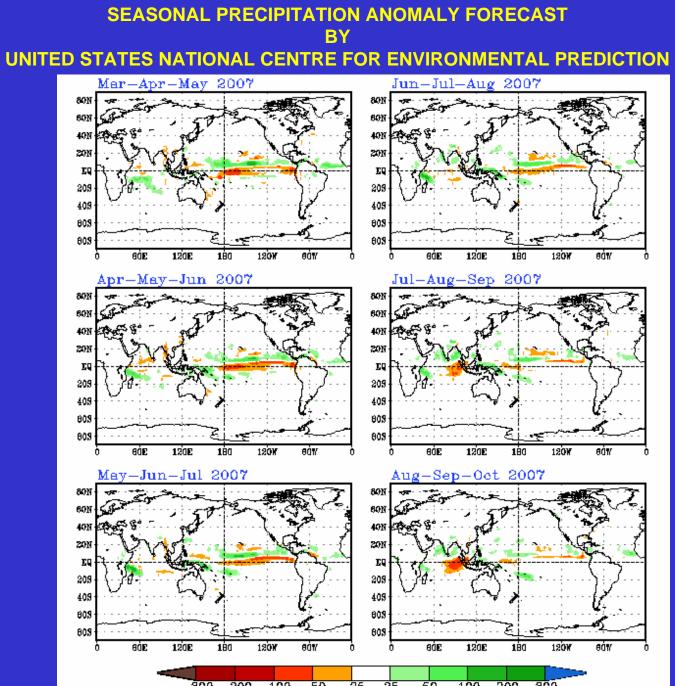
Products that are frequently used by MMD;

- Seasonal precipitation anomaly forecast
- Weekly precipitation anomaly forecast
- **ENSO (El Nino) information**
- **Sea Surface Temperature**



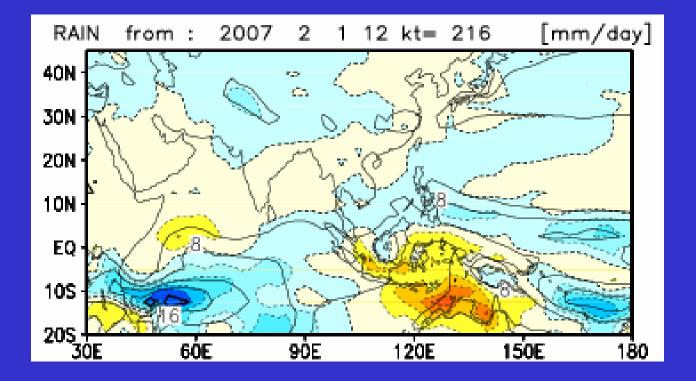
CECMWF

Forecast issue date: 15/12/2008

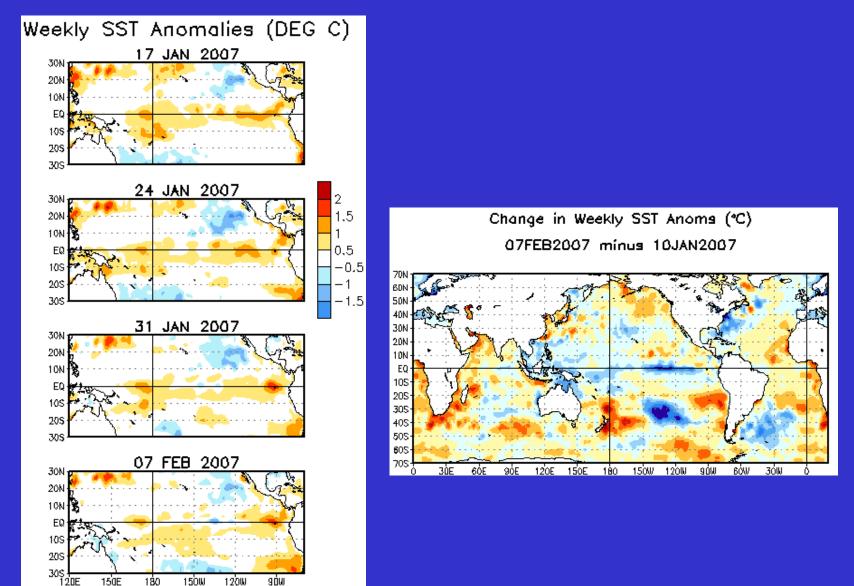


-300 - 200 - 100 - 50 - 2525 50 100 200 300

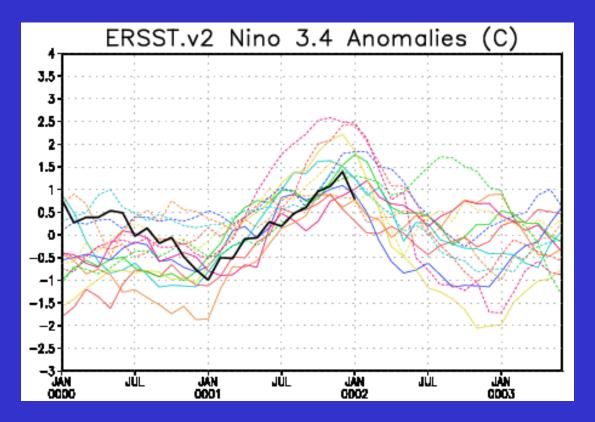
Weekly Precipitation Anomaly Forecast from TCC



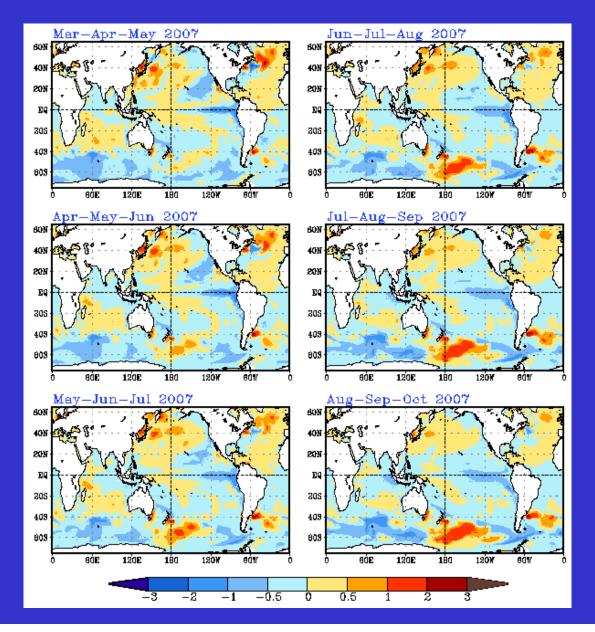
Weekly SST Departures (°C) for the Last 4 Weeks From NCEP



Niño 3.4 Index (°C) Comparison of El Niño Episodes From NCEP



SST Outlook From NCEP



This climate information is used for the long range weather forecast particularly the rainfall.

The sectors that require this information are;

- disaster management agency
- water resource management agency
- agriculture

INTERNATIONAL COOPERATION ON CLIMATE APPLICATION

- 1. Enhance the understanding and knowledge on climate, climate variability and climate change in Asia
- 2. Technology transfer through training
- **3.** To promote any new techniques in climate product generation to NMHSs
- 4. To enhance climate products currently available from GPCs

Enhance the understanding and knowledge on Climate, climate variability and climate change in Asia.

- more study and research on climate in this region

- its impact particularly to the sosio-economic activities

- cooperation and collaboration among the NMHSs

Technology transfer through training

- conducts more training and workshop by GPCS
- downscalling techniques

To promote any new techniques in climate product generation to NMHSs

- increase awareness among NMHSs on the any new climate products currently available

To enhance climate products currently available from GPCs

- increase the quantity of the products to cater for the requirement from the client on the long range (one year) forecast.

- make some of the raw data in GPCs available automatically to NMHSs like through FTP

THANK YOU