

FIG.S3-5 3-MONTH MEAN 500hPa HEIGHT AND ANOMALY IN THE NORTHERN HEMISPHERE (Mar.-May 2005)

500hPa height and anomalies in MAM 2005

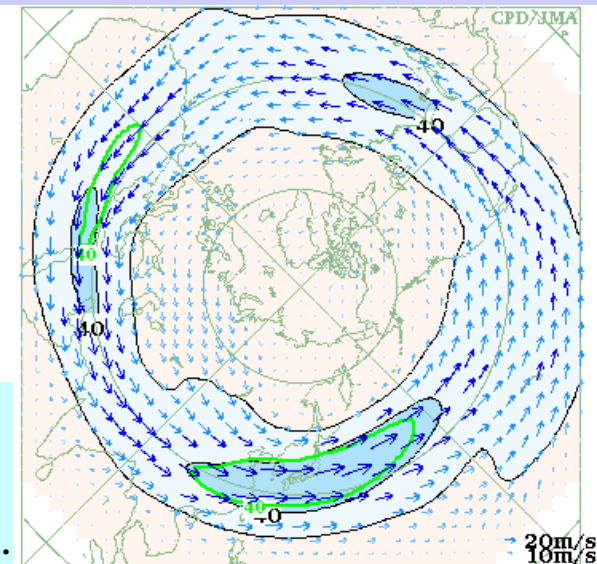
## Positive height anomalies

- high latitude regions
- Europe
- From central Asia to Tibetan Plateau

## The negative anomalies

- the Far East region
- the eastern north Pacific
- from eastern North America to the Atlantic

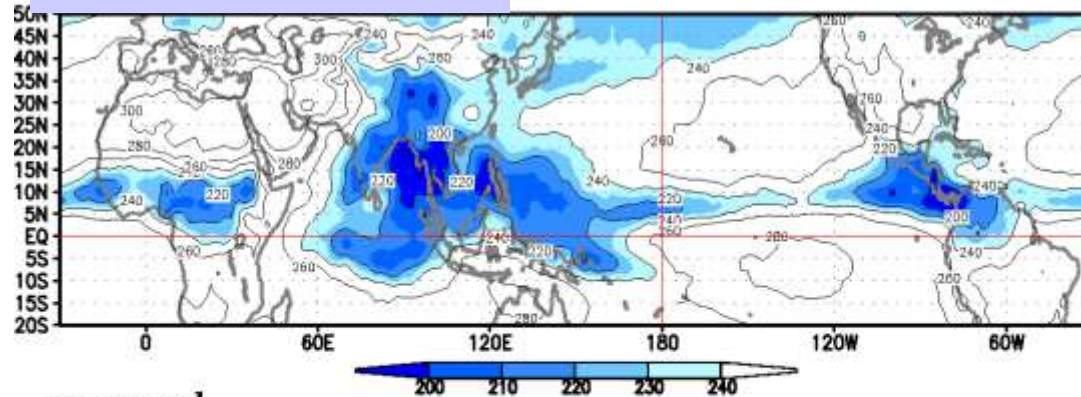
200hPa wind speed in MAM 2005 (normal : green line)



3-MONTH MEAN 200hPa WIND SPEED AND VECTORS IN THE NORTHERN HEMISPHERE (Mar.-May 2005)

The sub-tropical Jet over the Middle East and north India was shifted southward from the latter half of April.

## OLR (JJA2005)

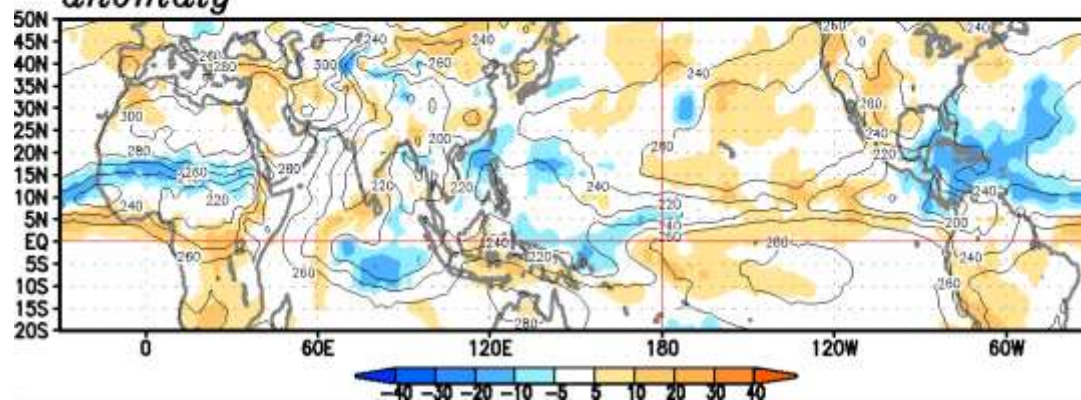
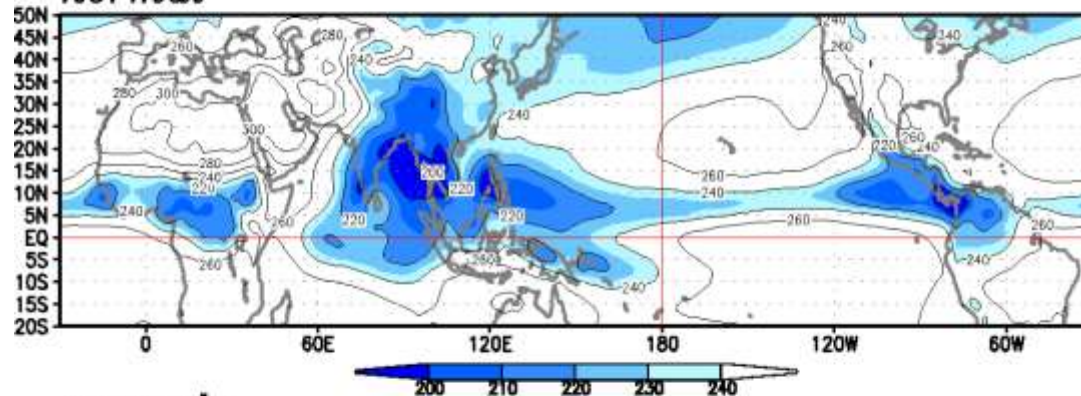


Enhanced convection

- The northern part of Philippines
- From Caribbean Sea to the North Atlantic Ocean.

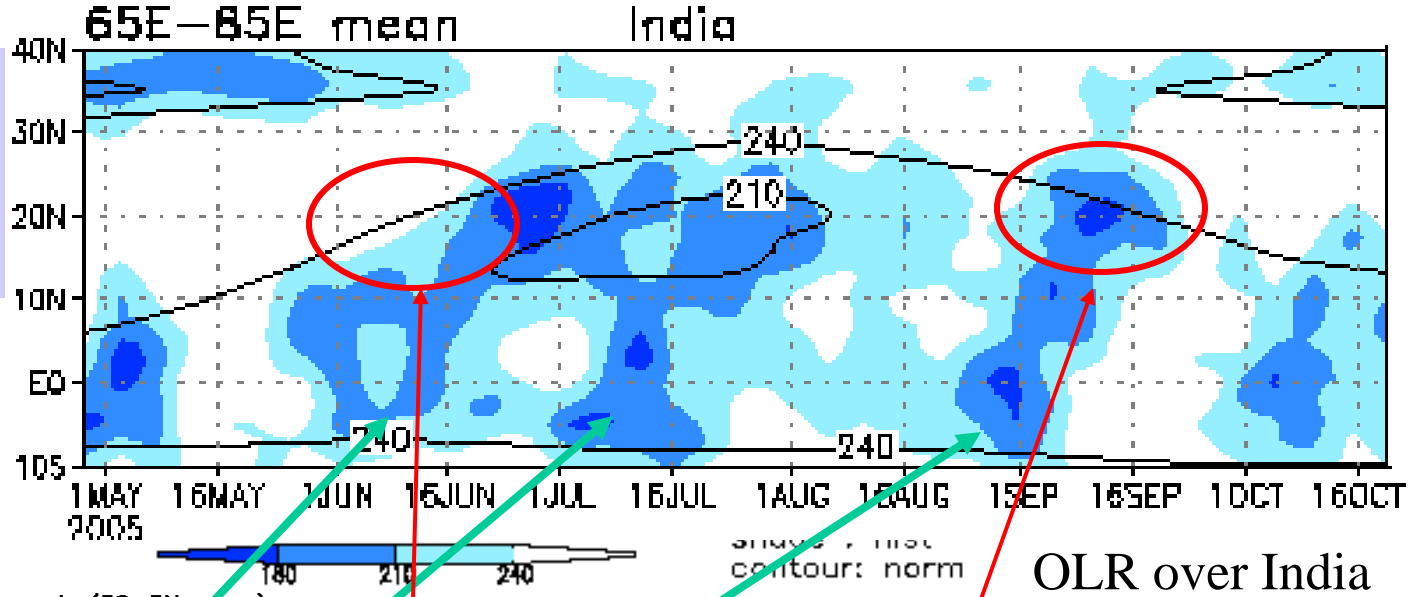
Suppressed convection

- The Bay of Bengal
- The southern part of India

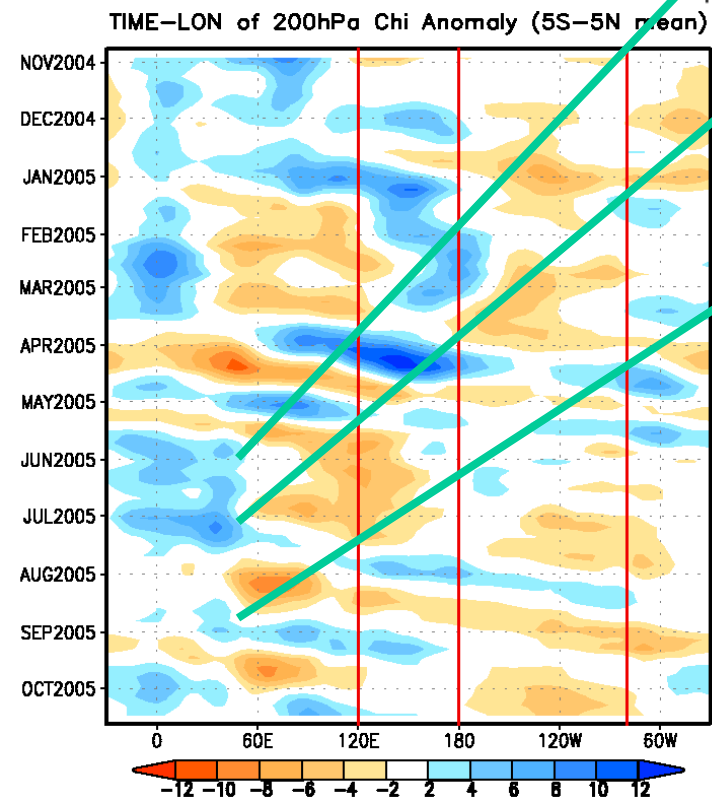


Asian summer monsoon activities were near normal over Southeast Asia and India during summer (JJA 2005). The most active convection area of the Asian monsoon was located in the east of its normal position.

Northward propagation related with MJO



MJO in 2005



The withdrawal was delayed over most parts of India.

The onset phase of monsoon was late arrival over the Indian Peninsula.

Time-longitude cross section of Velocity Potential anomalies around equator(5N-5S)