

“แนวโน้มสถานการณ์น้ำ 67-68 และมาตรการปรับตัว”

สภาพอากาศและแนวโน้ม ปี 2567-68

Chalump Oonariya, Ph.D.

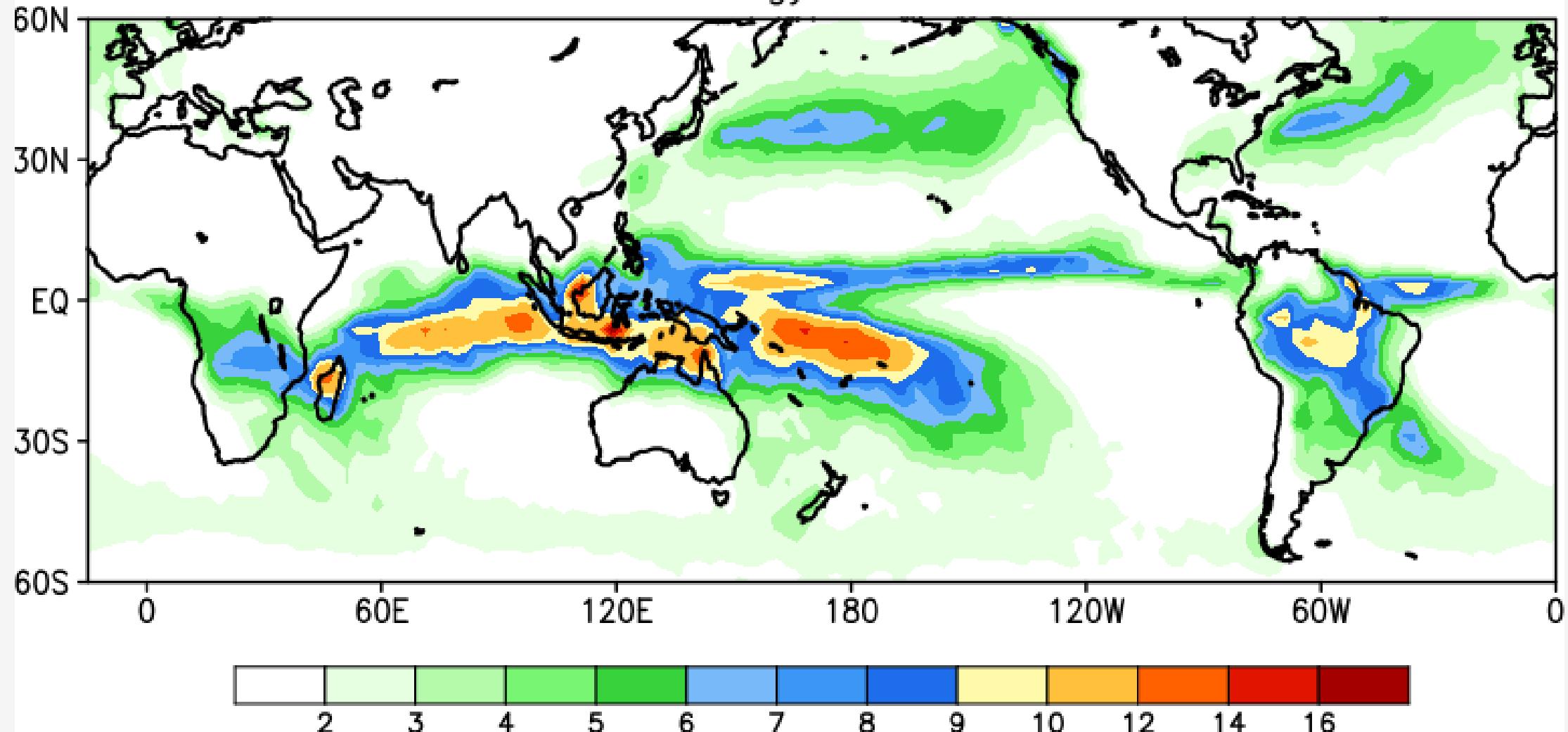
Meteorologist

Climate Center, Thai Meteorological Department

วันที่ 12 มีนาคม 2567 สำนักงานการวิจัยแห่งชาติ (วช.)

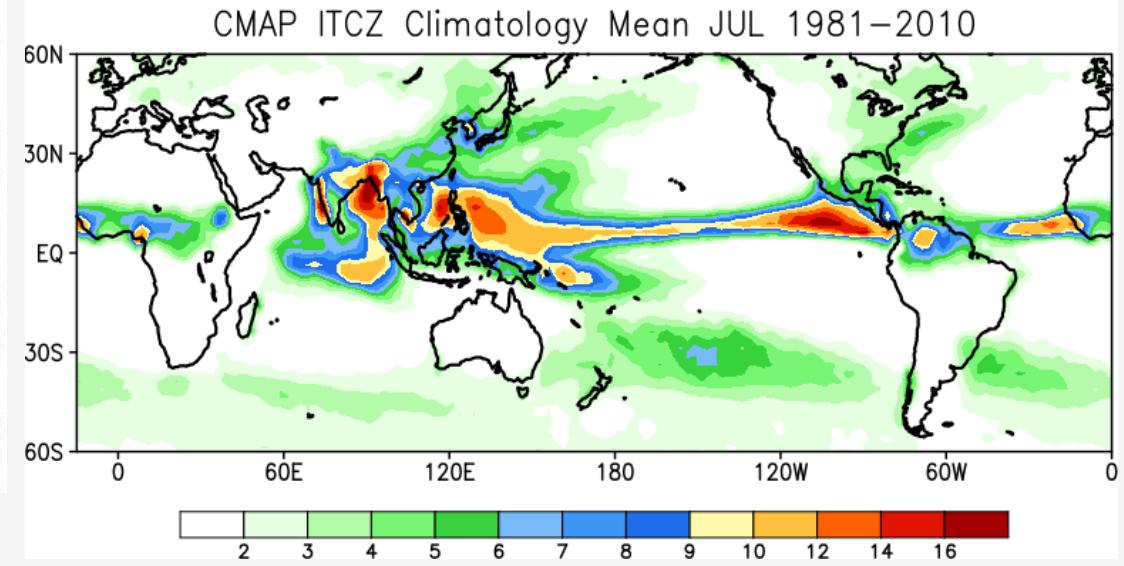
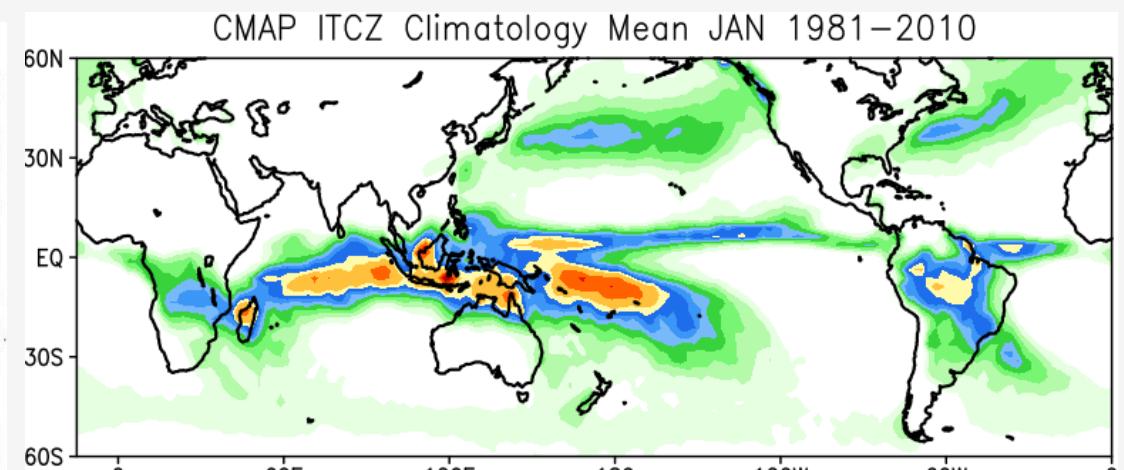
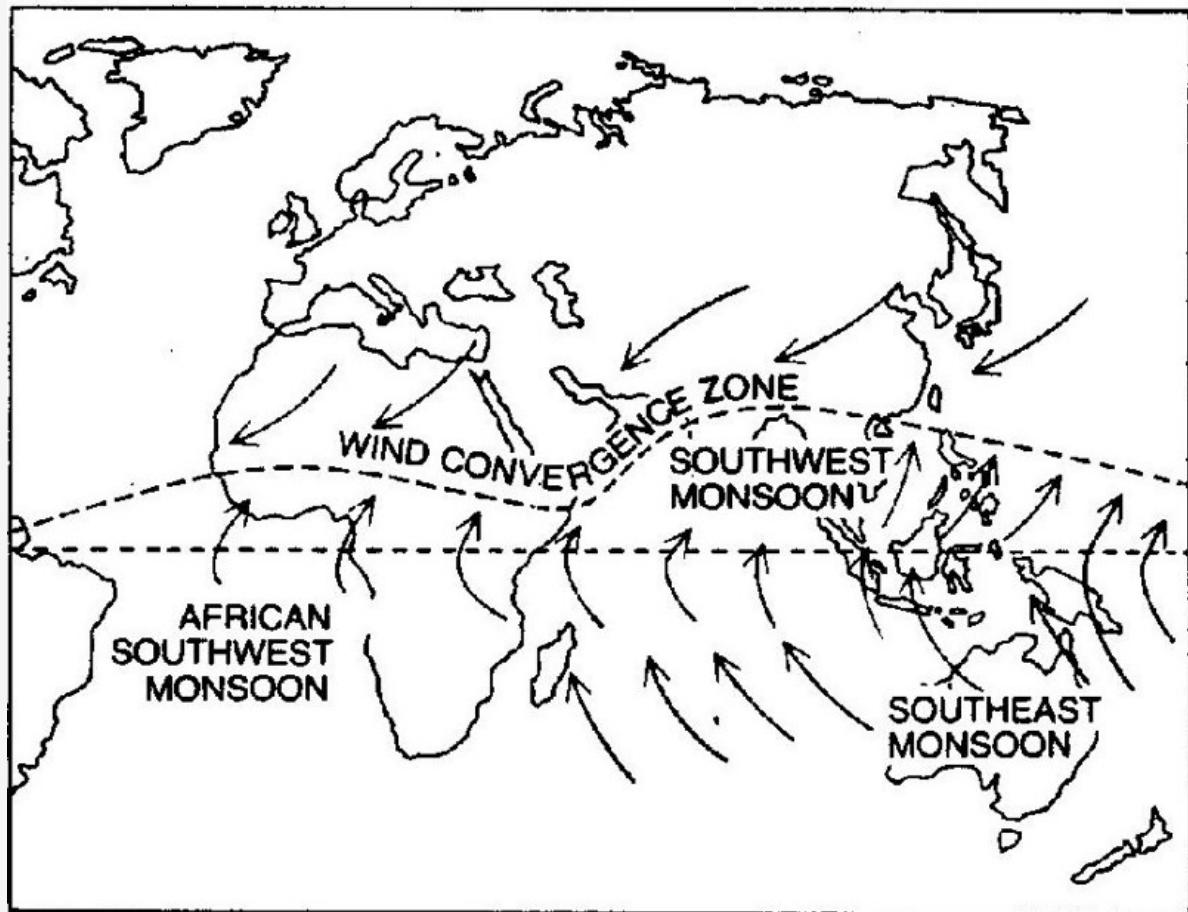
Inter Tropical Convergence Zone (ITCZ)

CMAP ITCZ Climatology Mean JAN 1981–2010

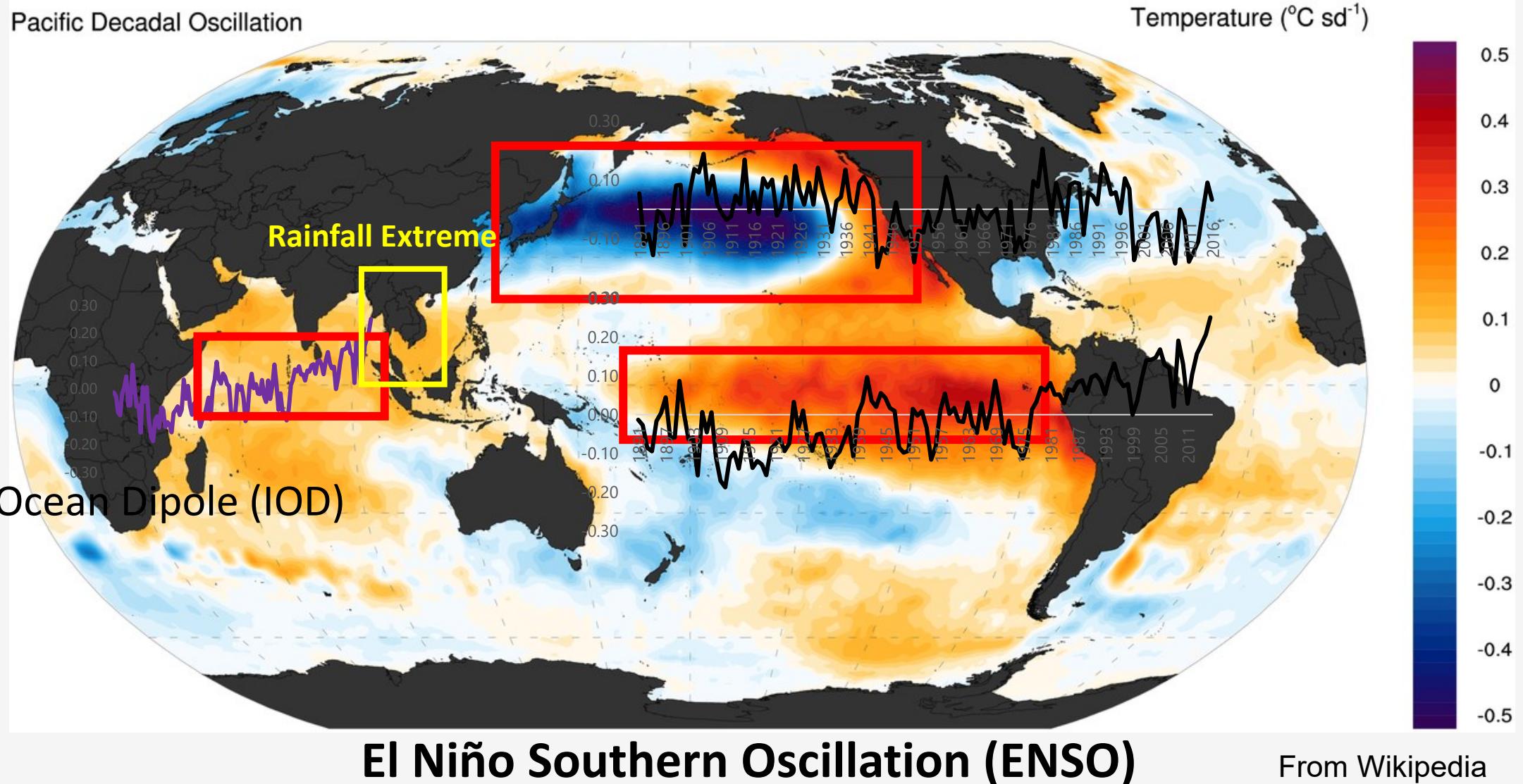


Wind Convergences and ITCZ displacement

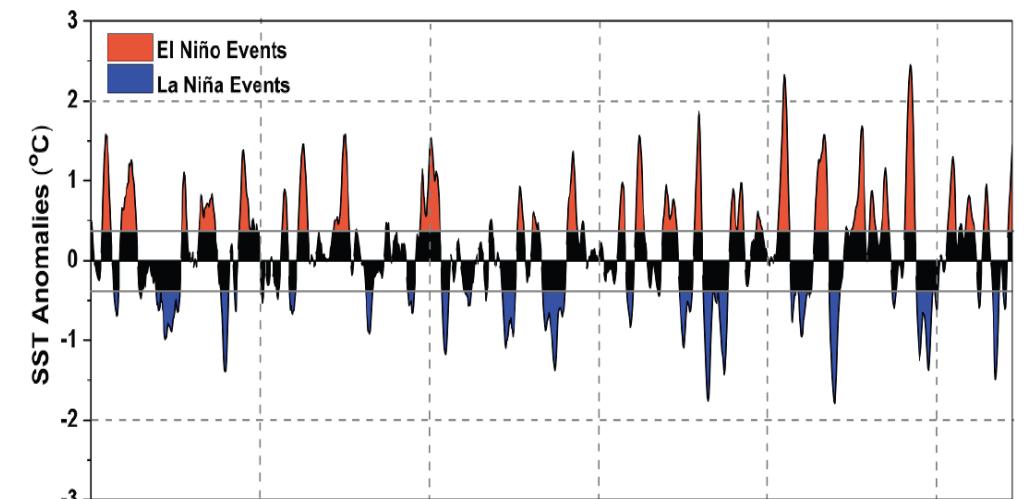
JULY



Pacific Decadal Oscillation (PDO)

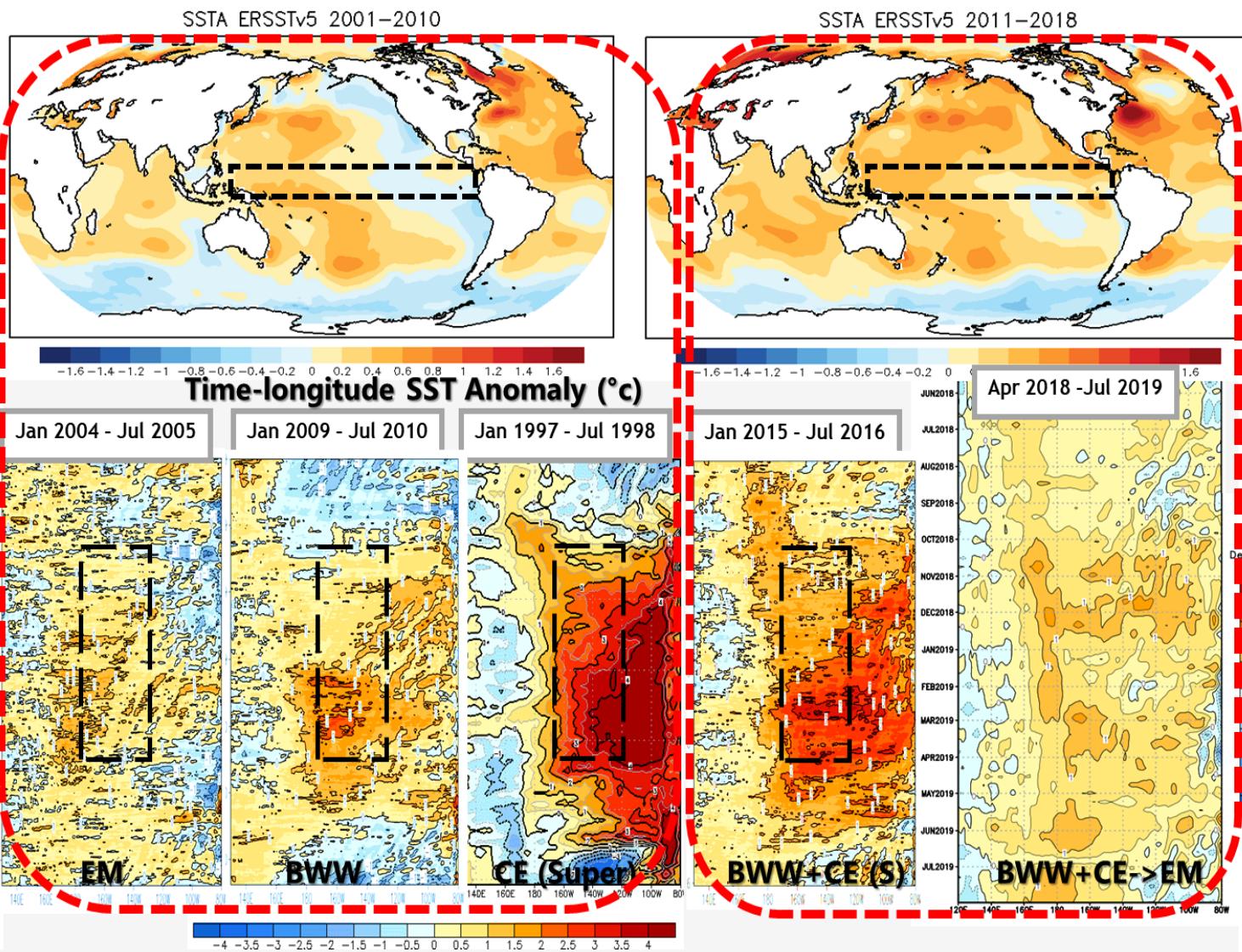
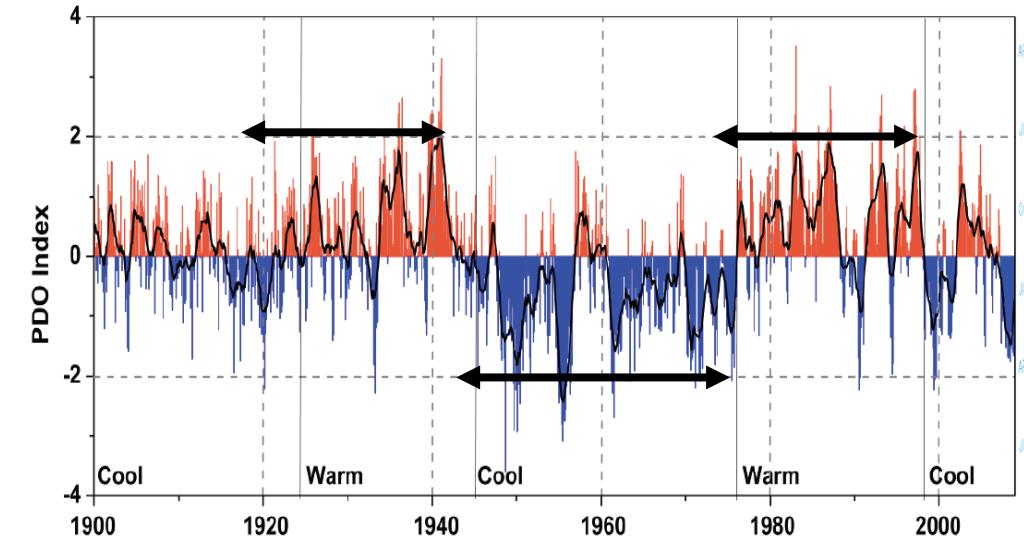


Warm(Cool) phase PDO keeps ENSO staying longer-live and more intense (Luiz Carlos B. 2013)



PDO and ENSO time series

W. Liu (2014)



Antarctic sea-ice expansion between 2000 and 2014 driven by tropical Pacific decadal climate variability

Gerald A. Meehl, Julie M. Arblaster, Cecilia M. Bitz, Christine T. Y. Chung & Haiyan Teng

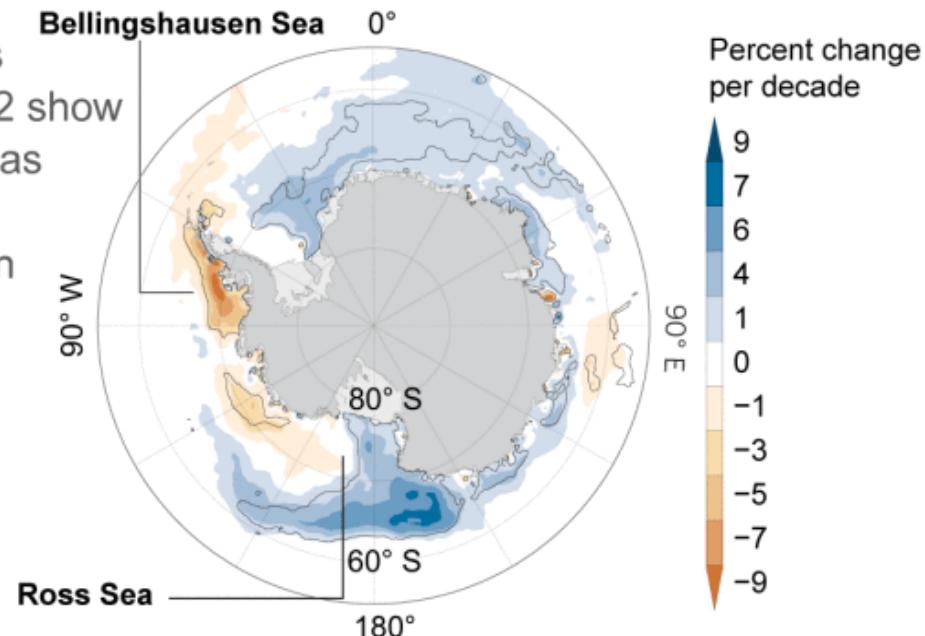
Affiliations | Contributions | Corresponding author

Nature Geoscience (2016) | doi:10.1038/ngeo2751

Received 26 February 2016 | Accepted 27 May 2016 | Published online 04 July 2016

Change in Antarctic sea ice

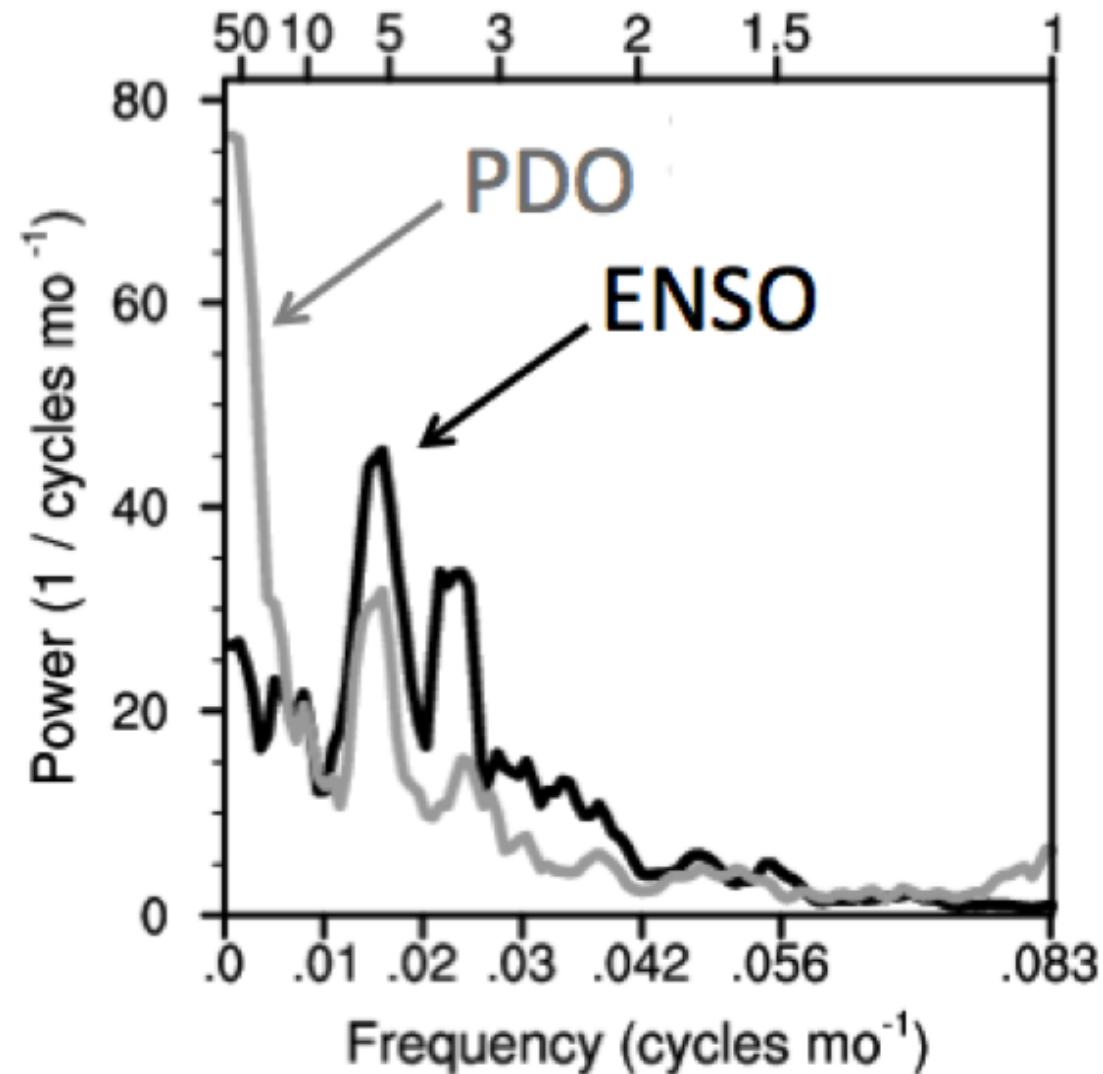
Satellite measurements between 1979 and 2012 show that sea ice coverage has grown in some parts of Antarctica and shrunk in others, leading to an overall increase.



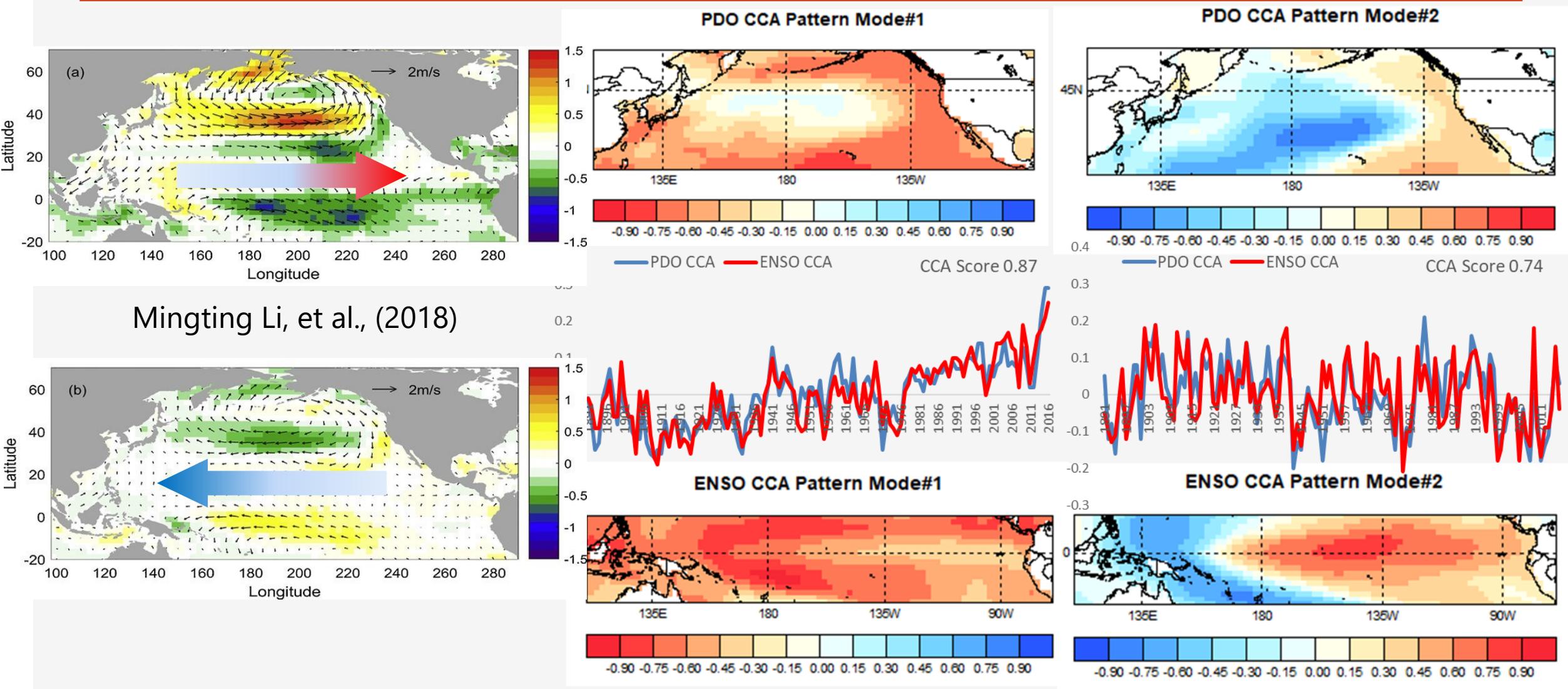
Source: National Snow and Ice Data Center

John King, Nature Publishing Group

Power Spectrum years

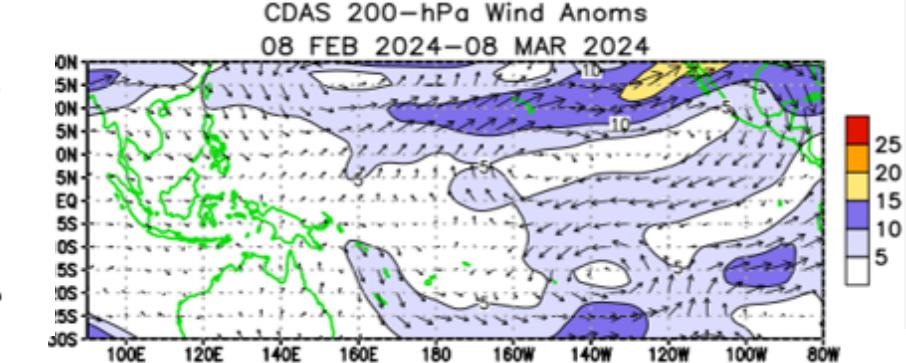
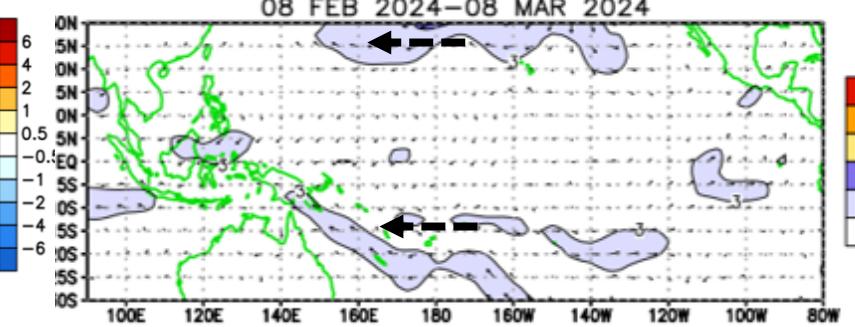
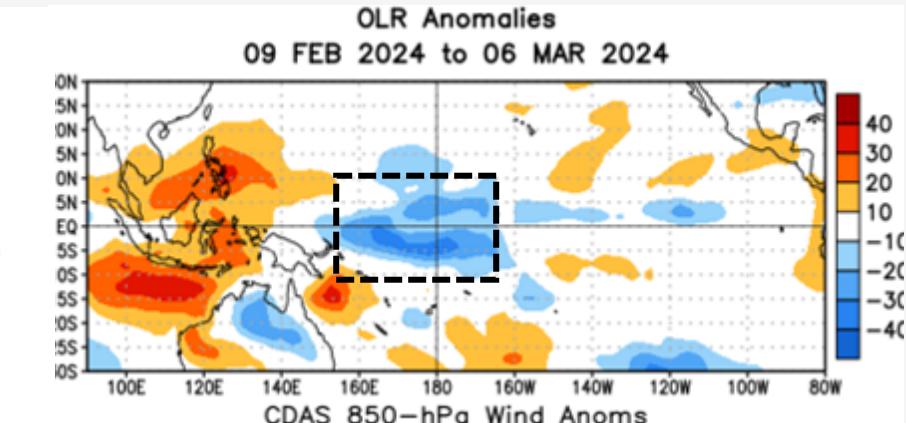
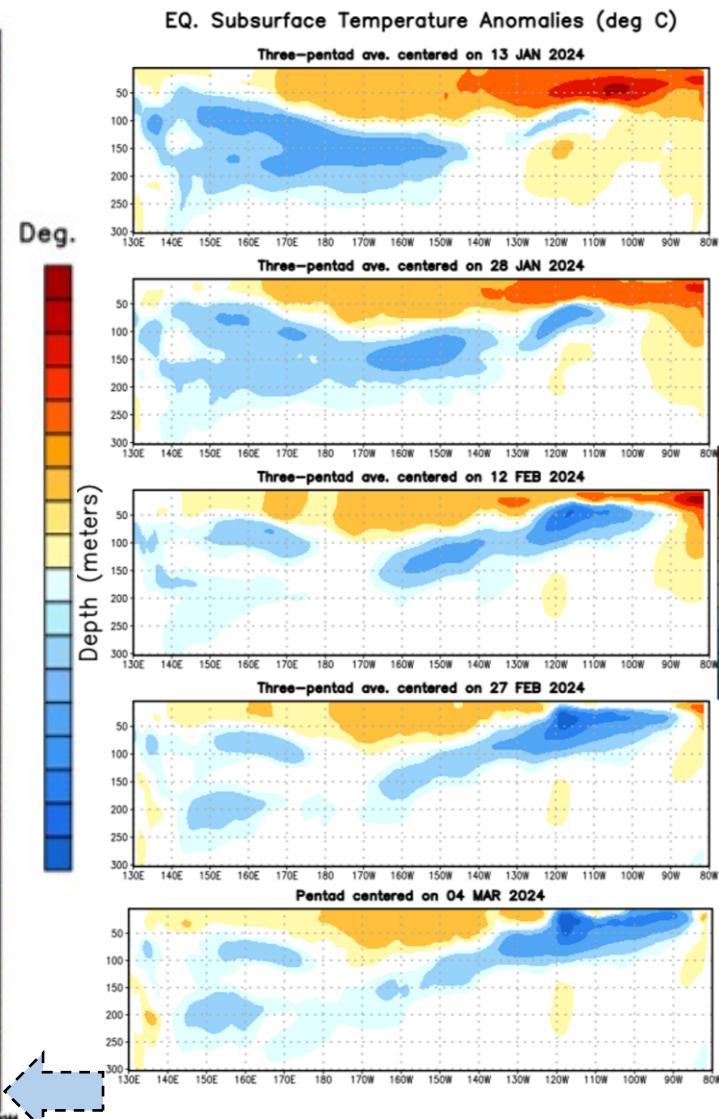
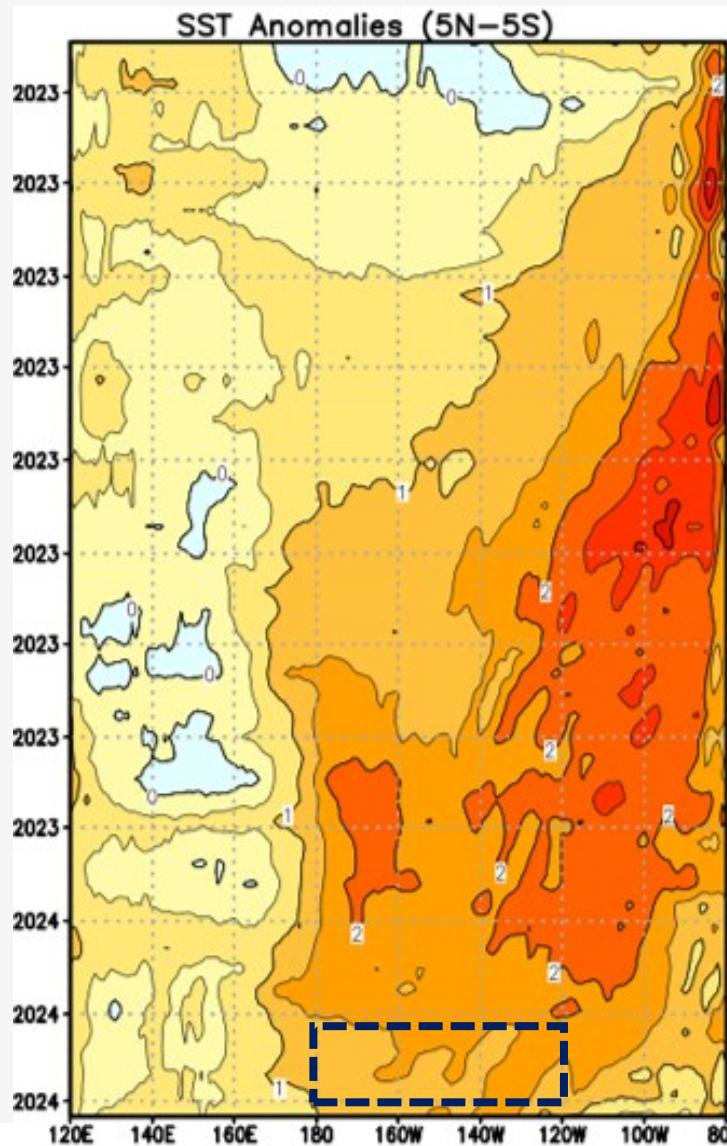


Warm(Cool) phase PDO keeps ENSO staying longer-live and more intense (Luiz Carlos B. 2013)

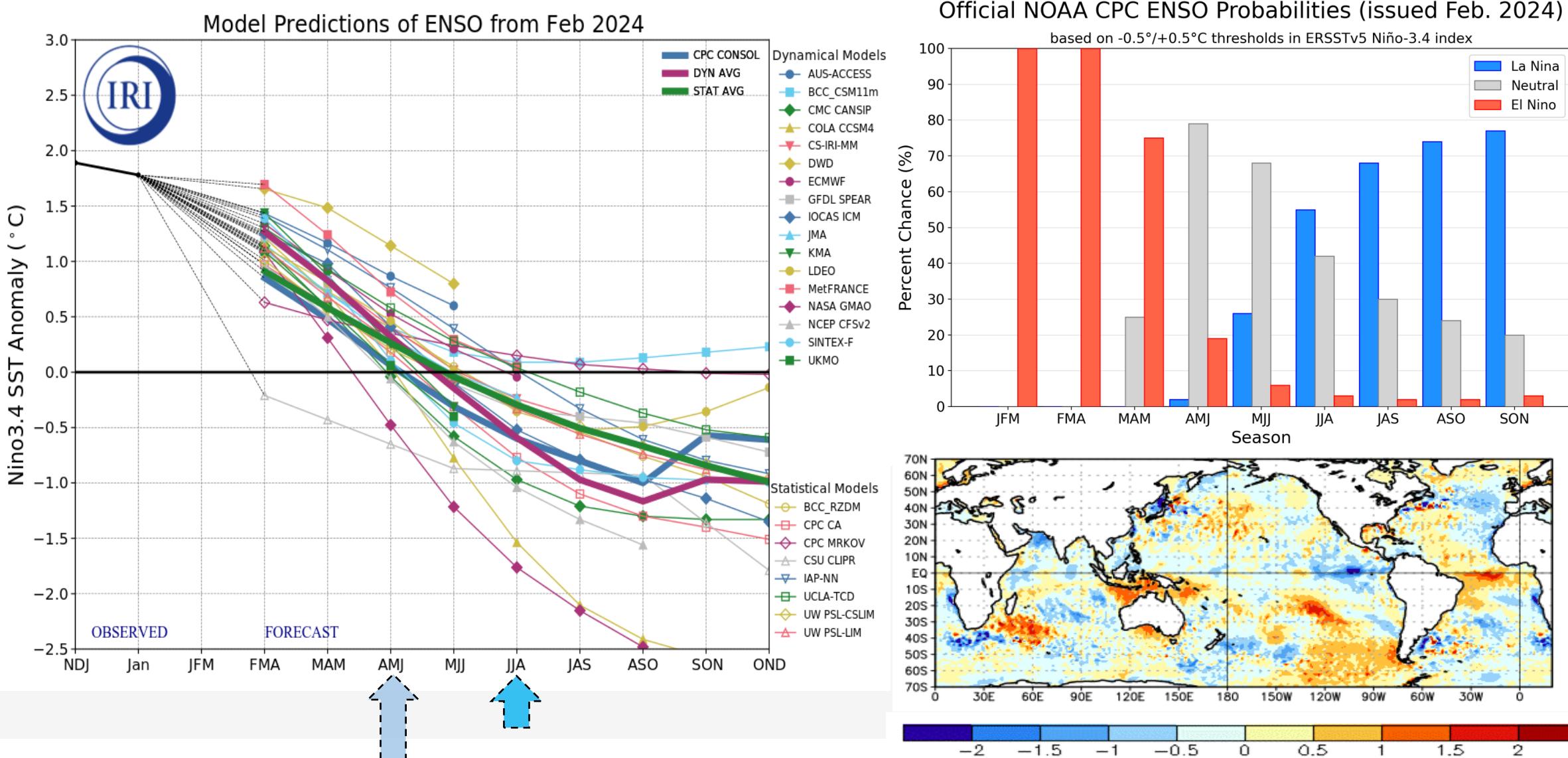


การเฝ้าติดตามอุณหภูมิพิวน้ำทะเล
และพัฒนาการของปรากฏการณ์
PDO ENSO และ IOD

การเฝ้าติดตามสถานการณ์ของปรากฏการณ์ ENSO



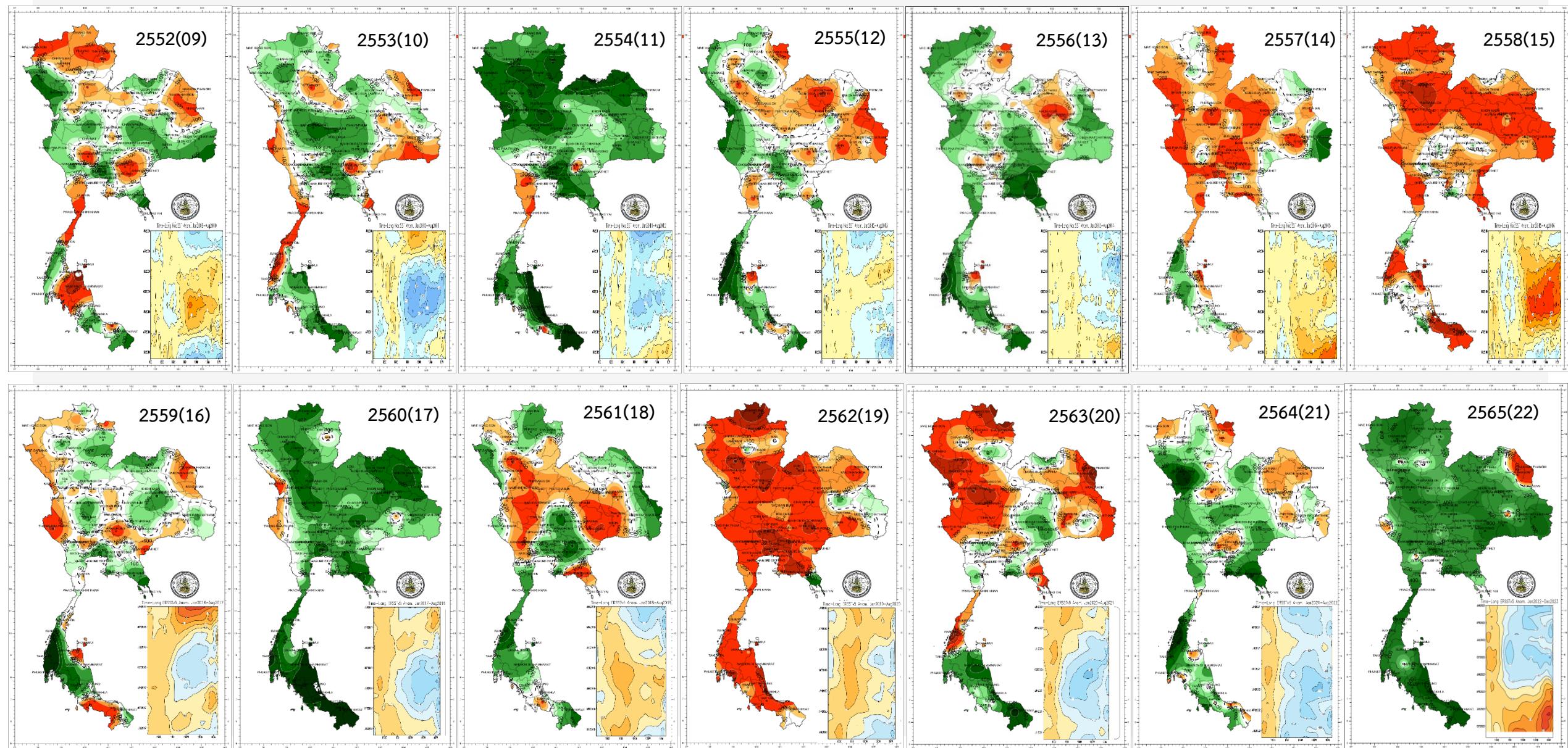
ENSO Predictions and SST Anomalies



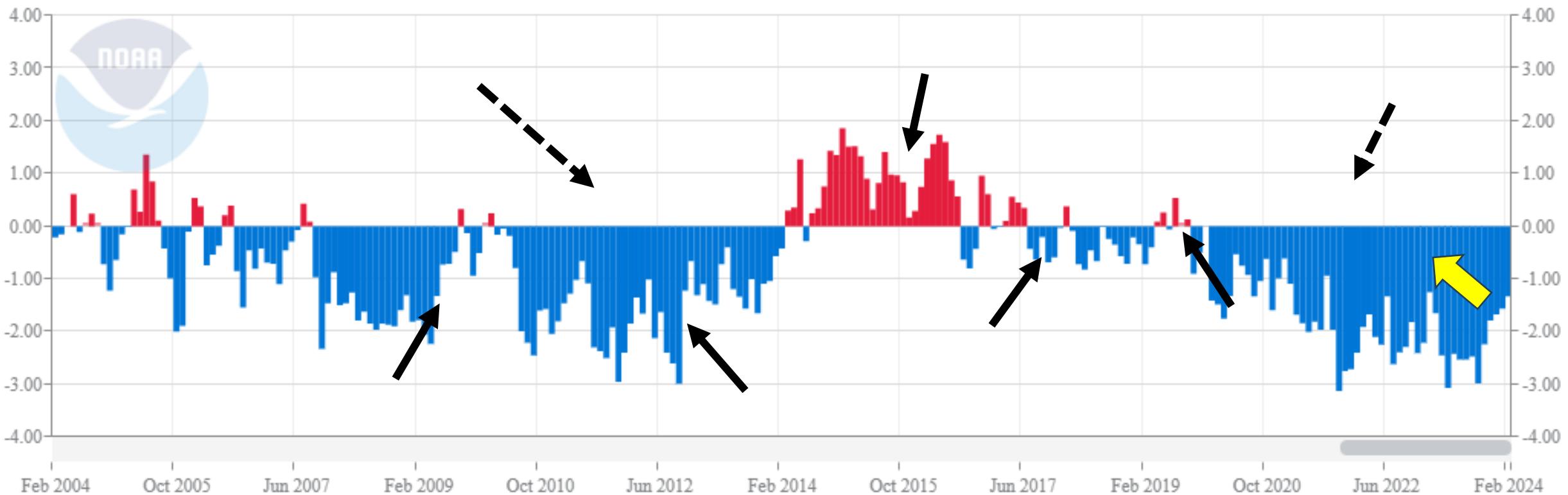


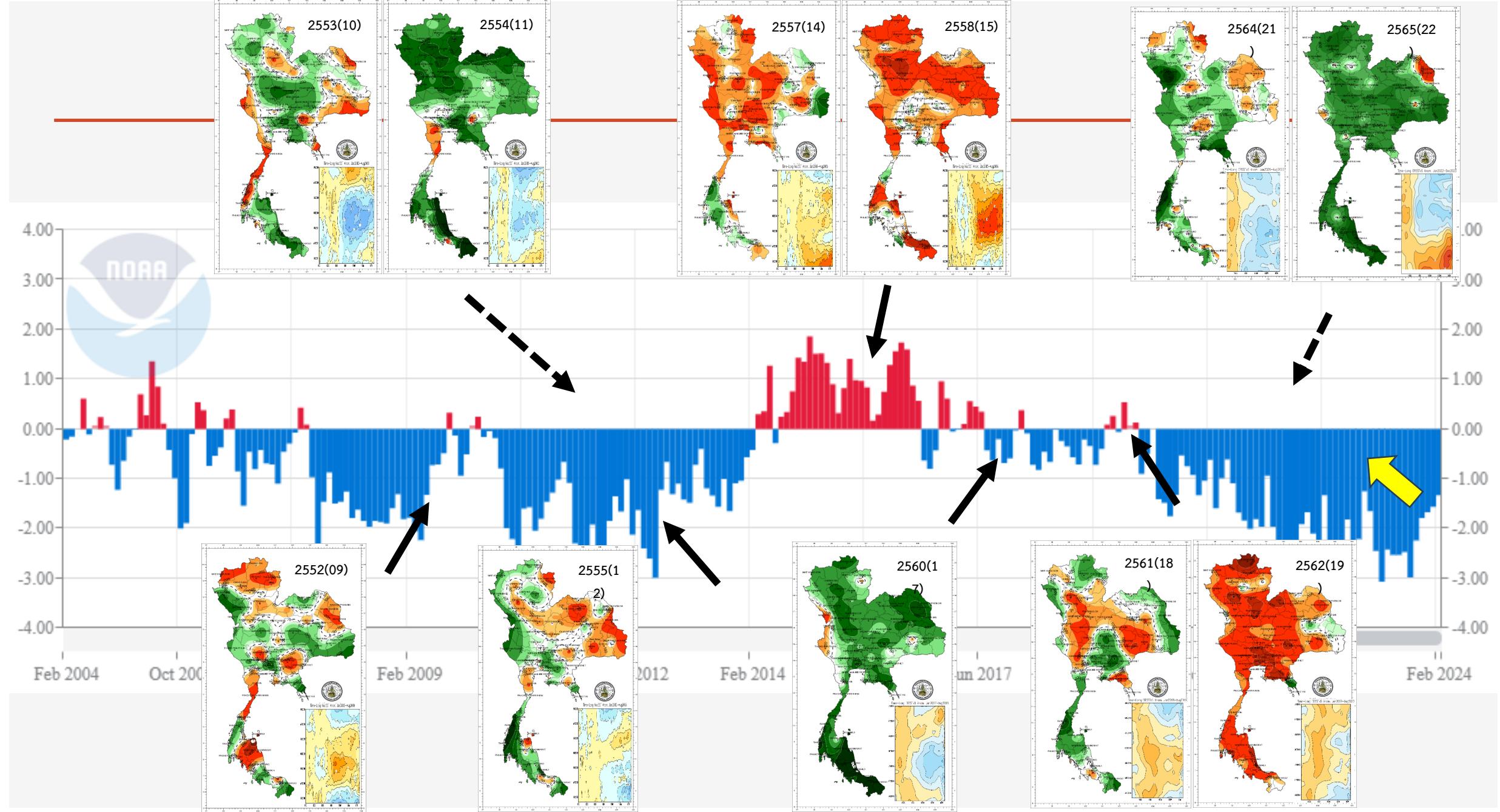
PDO & ENSO Influence on rainfall anomalies

Accumulated Rainfall Anomalies & SSTA (2009-2022)



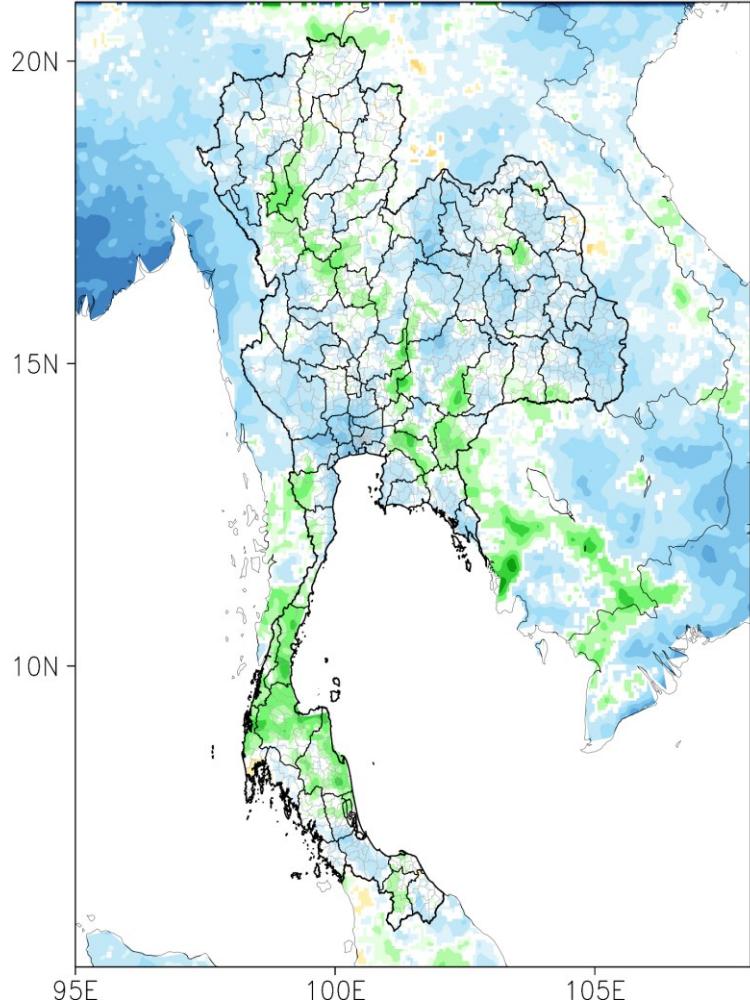
PDO forcing ENSO



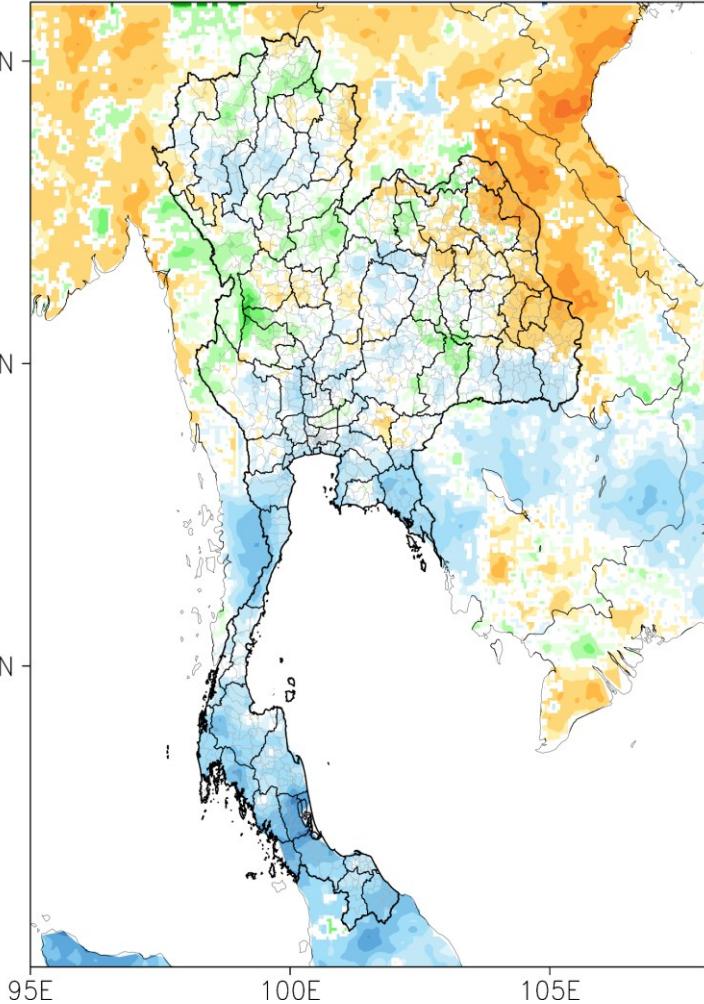


Probability Climate Outlook: Apr-Jun 2024

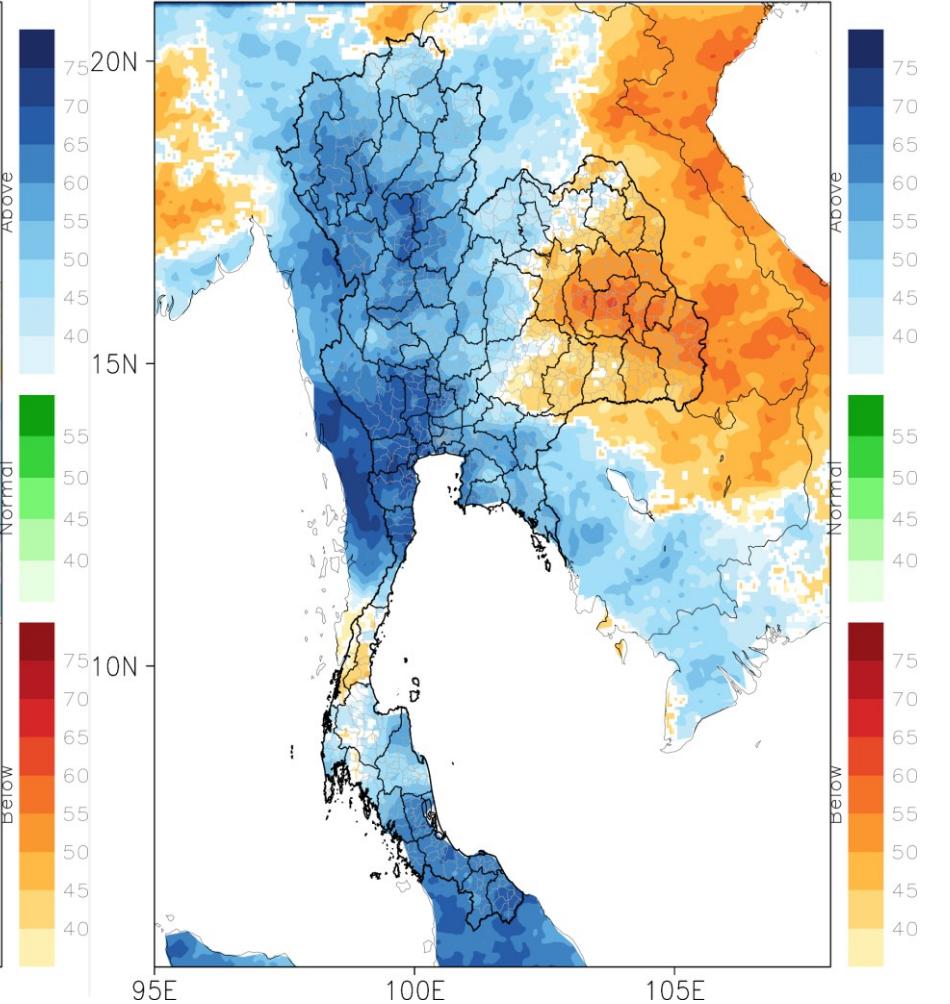
NMME Probabilistic Forecasts
April



NMME Probabilistic Forecasts
May

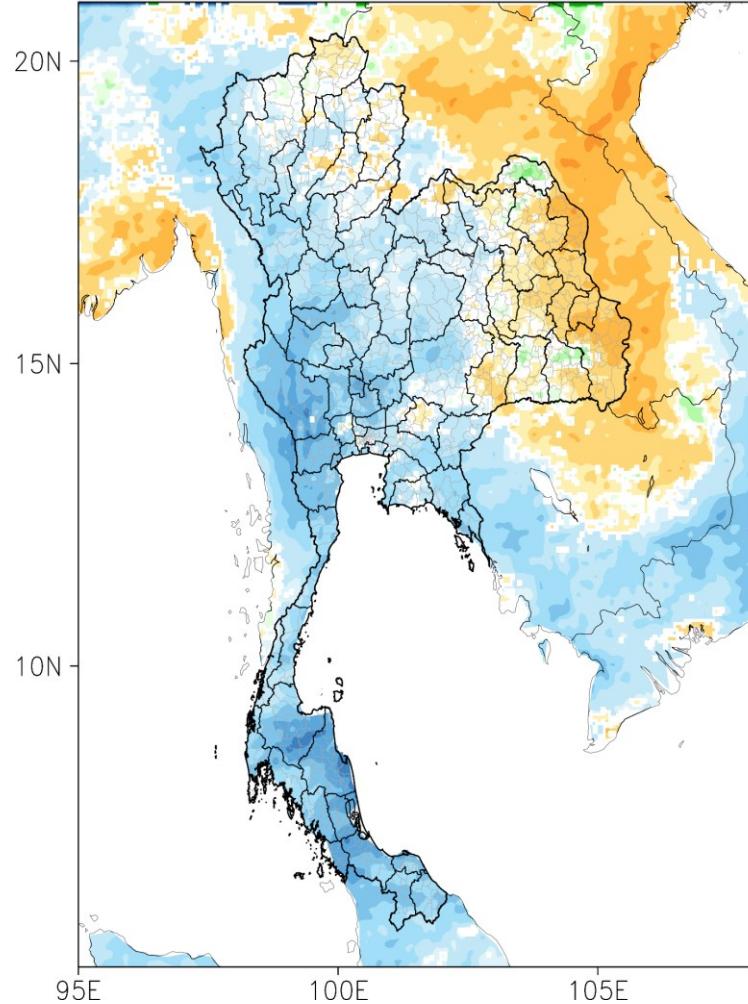


NMME Probabilistic Forecasts
June

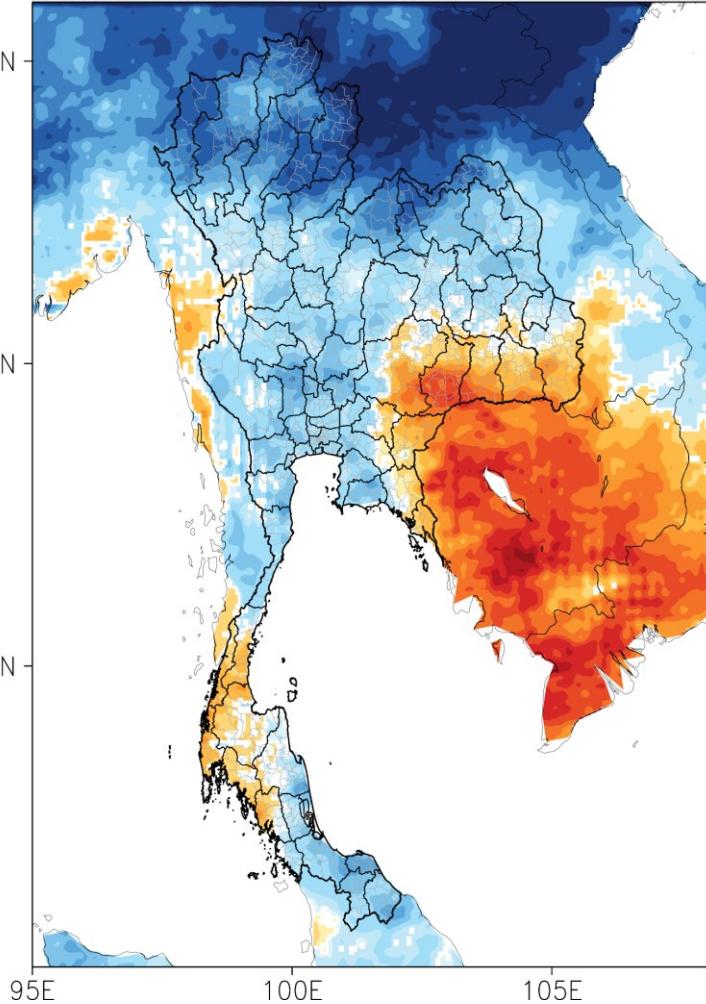


Probability Climate Outlook: Jul-Sep 2024

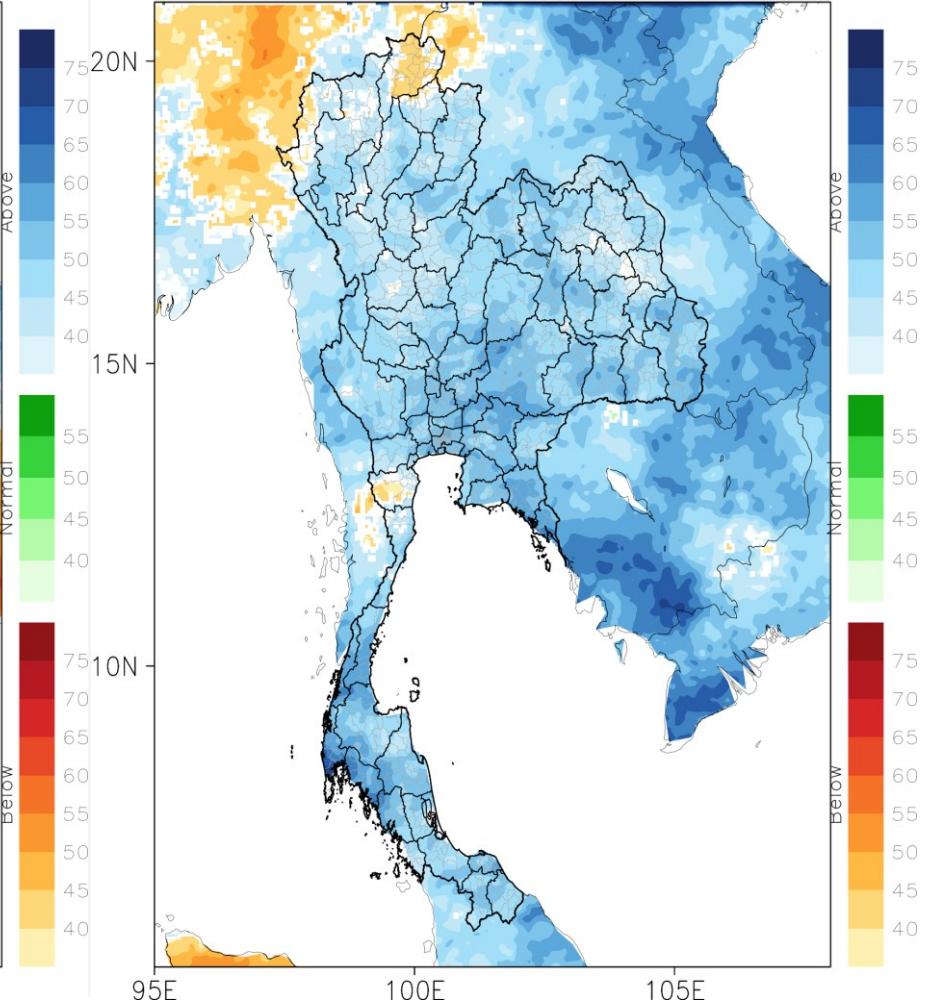
NMME Probabilistic Forecasts
July



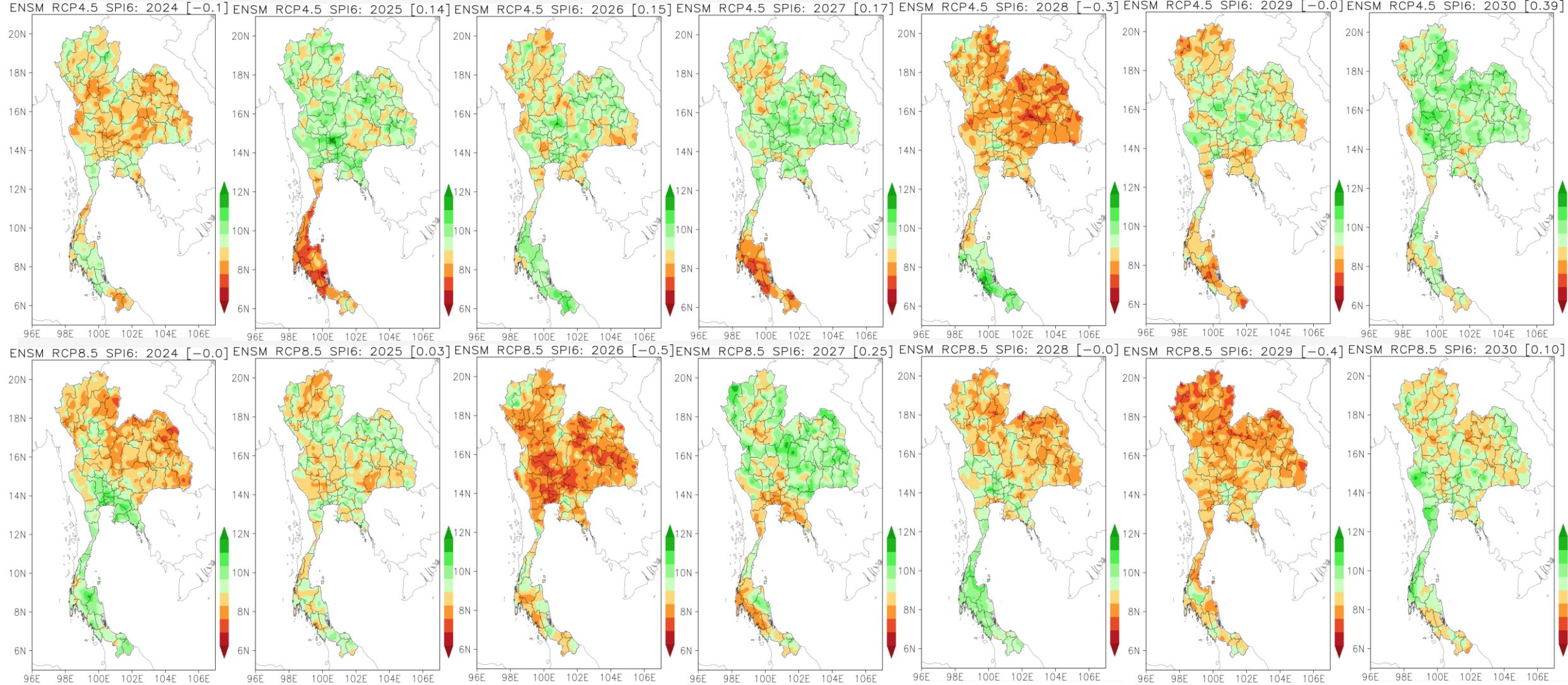
NMME Probabilistic Forecasts
August



NMME Probabilistic Forecasts
September



Climate Projection: RCP4.5 & RCP8.5 (2024-2030)



ขอบคุณครับ