

Global Tropics Hazards And Benefits Outlook

May 21, 2013

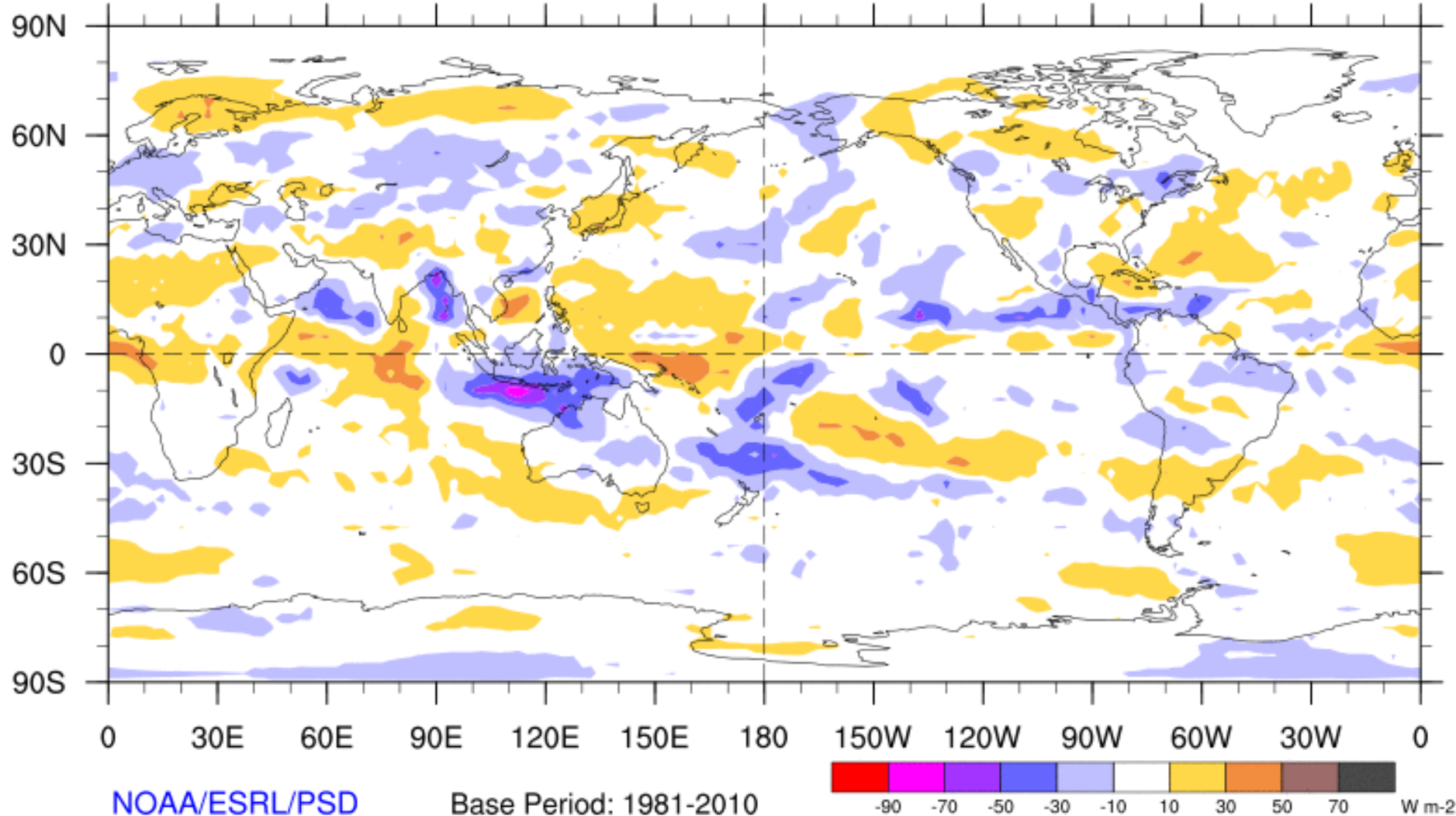
Brad Pugh

Outline

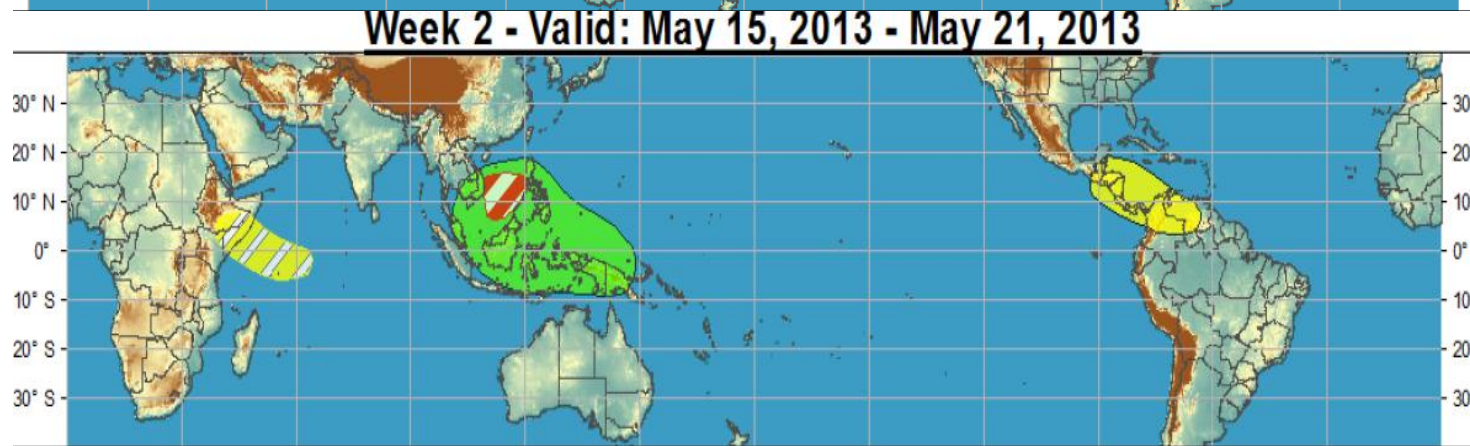
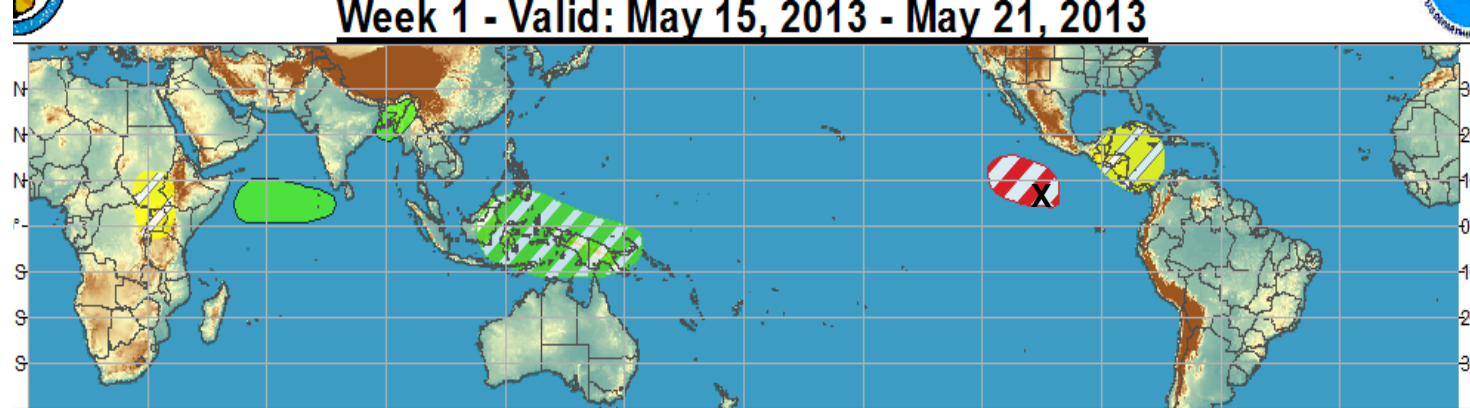
1. Review of Recent Conditions
2. Synopsis of Climate Modes
3. GTH Outlook and Forecast Discussion

7-Day Average OLR Anomaly

2013/05/20 - 2013/05/26

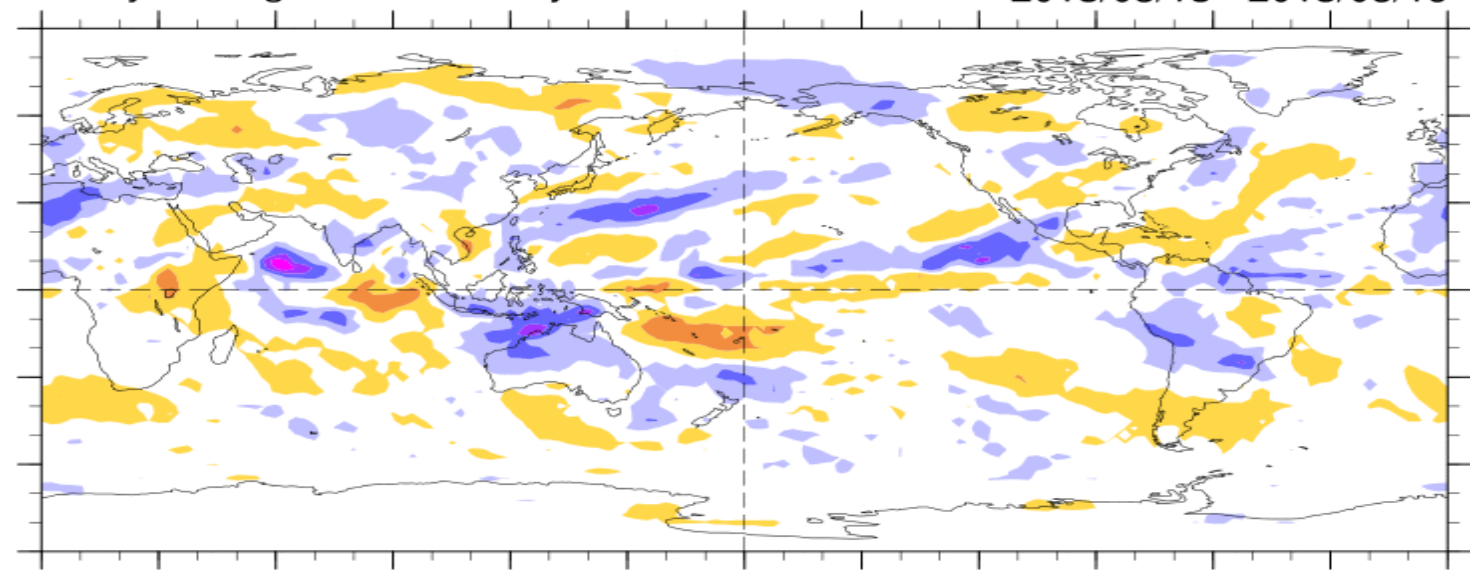


Outlook Review



7-Day Average OLR Anomaly

2013/05/13 - 2013/05/19



Cool shading
More clouds/rain

Warm shading
Less clouds/rain

Synopsis of Climate Modes

ENSO:

- ENSO-neutral conditions are favored to continue through boreal summer 2013.

MJO and other subseasonal tropical variability:

- The MJO became less coherent recently as the enhanced phase advanced east of the Maritime Continent.
- Model MJO index forecasts indicate a weak signal during week-1 with other modes of variability influencing anomalous convection.
- A renewed organization is expected during week-2 with the enhanced phase across the western Hemisphere and Africa.

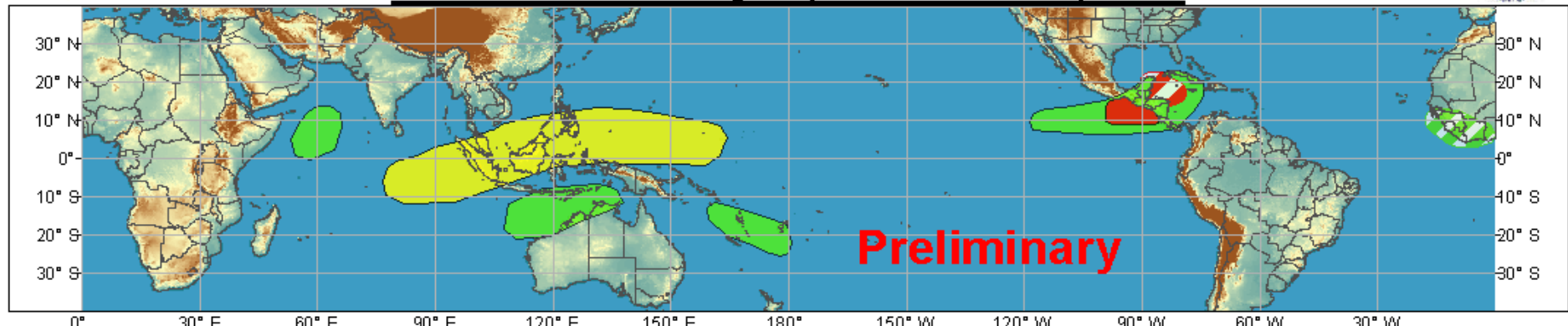
Tropics:

- Elevated odds for TC development across the east Pacific during weeks 1 and 2.
- Potential for early season TC exists across nw Caribbean Sea during week-2.

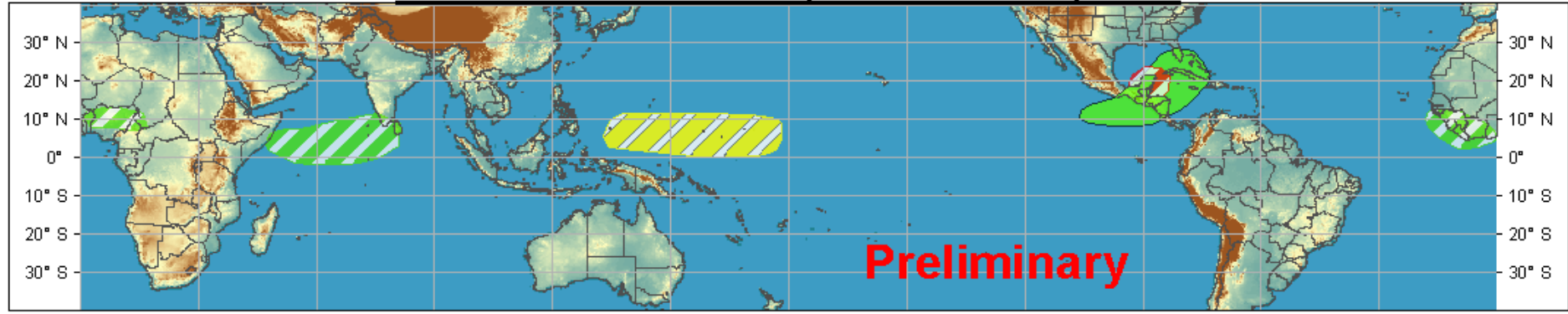


Global Tropics Hazards and Benefits Outlook - Climate Prediction Center

Week 1 - Valid: May 29, 2013 - Jun 04, 2013













Week 2 - Valid: Jun 05, 2013 - Jun 11, 2013



Produced: 05/27/2013

Forecaster: Baxter

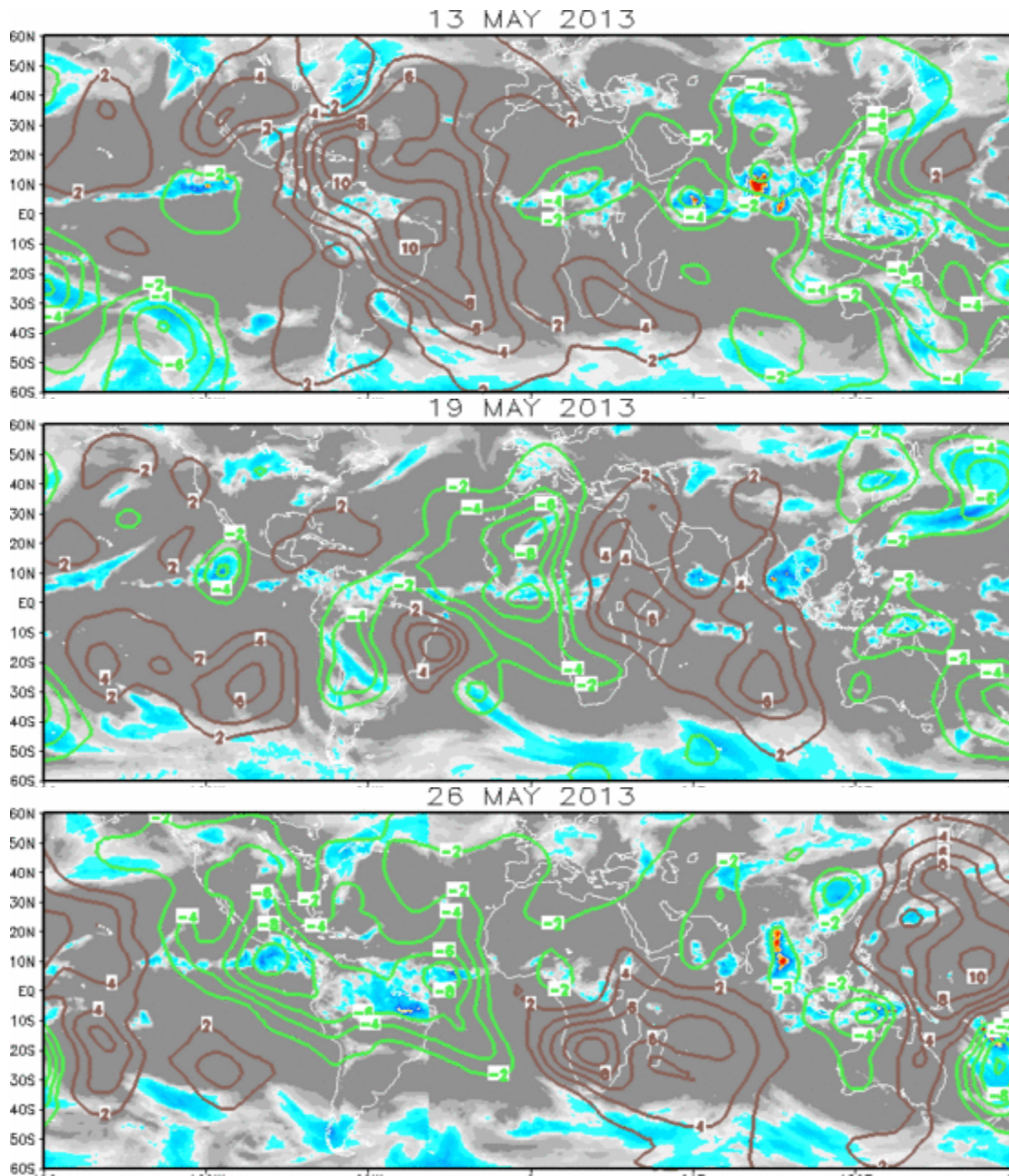
		Confidence		
		High	Moderate	
Tropical Cyclone Formation				Development of a tropical cyclone that eventually reaches tropical storm/cyclone strength.
Above-average rainfall				Weekly total rainfall in the upper third of the historical range.
Below-average rainfall				Weekly total rainfall in the lower third of the historical range.
Above-normal temperatures				7-day mean temperatures in the upper third of the historical range.
Below-normal temperatures				7-day mean temperatures in the lower third of the historical range.

Product is updated once per week. The product targets broad scale conditions integrated over a 7-day period for US interests only. Consult your local responsible forecast agency.



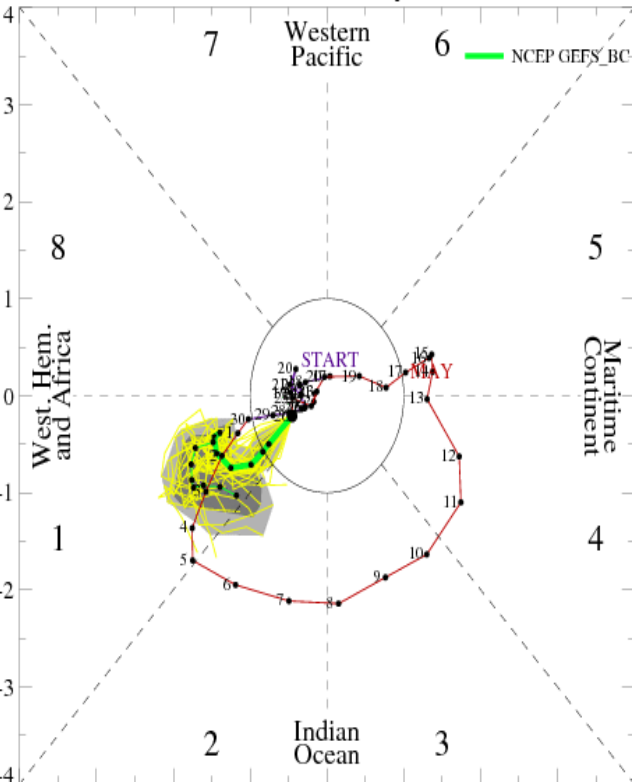
IR Satellite & 200-hpa Velocity Potential Anomalies

Green: Enhanced Divergence Brown: Enhanced Convergence

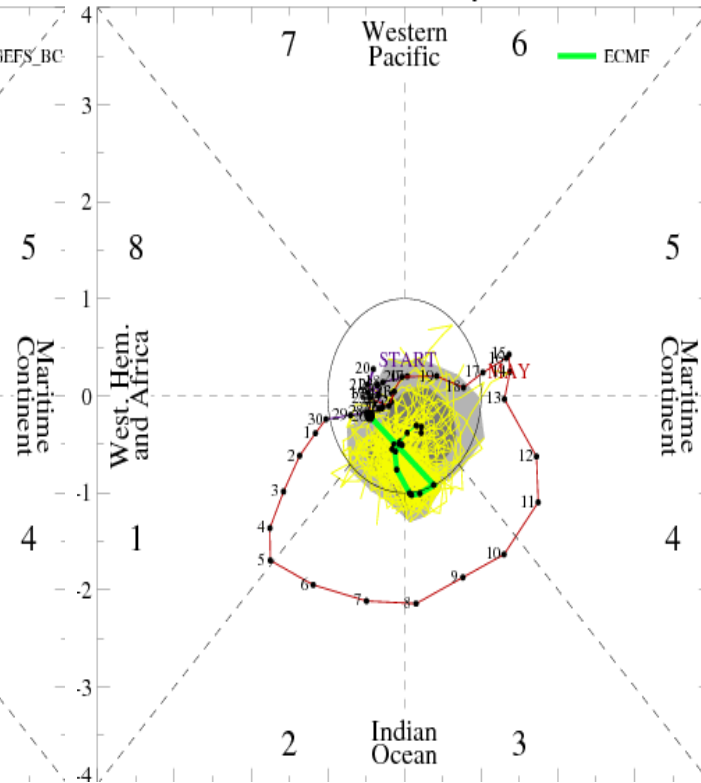


OLR Anomalies

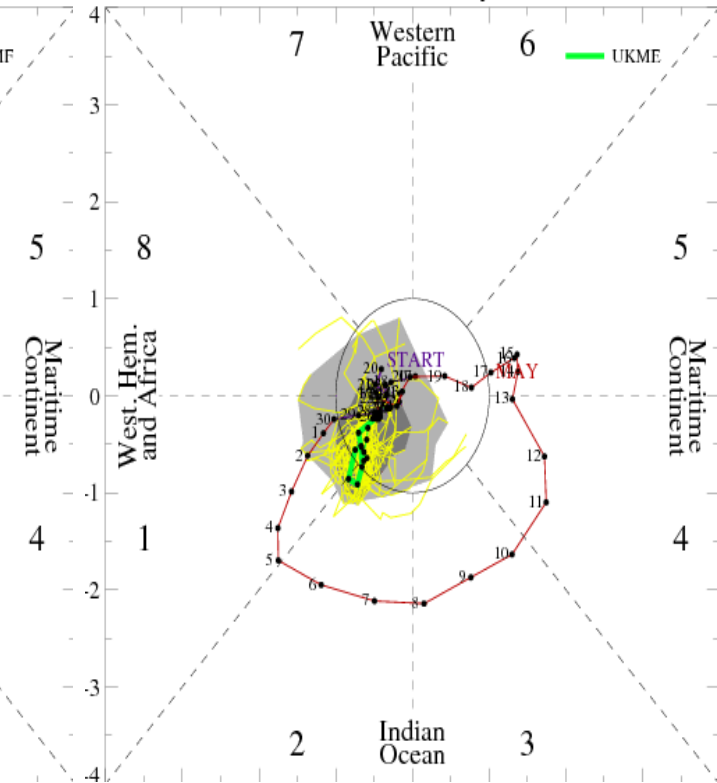
MJO Index Forecast for 27May2013-10Jun2013

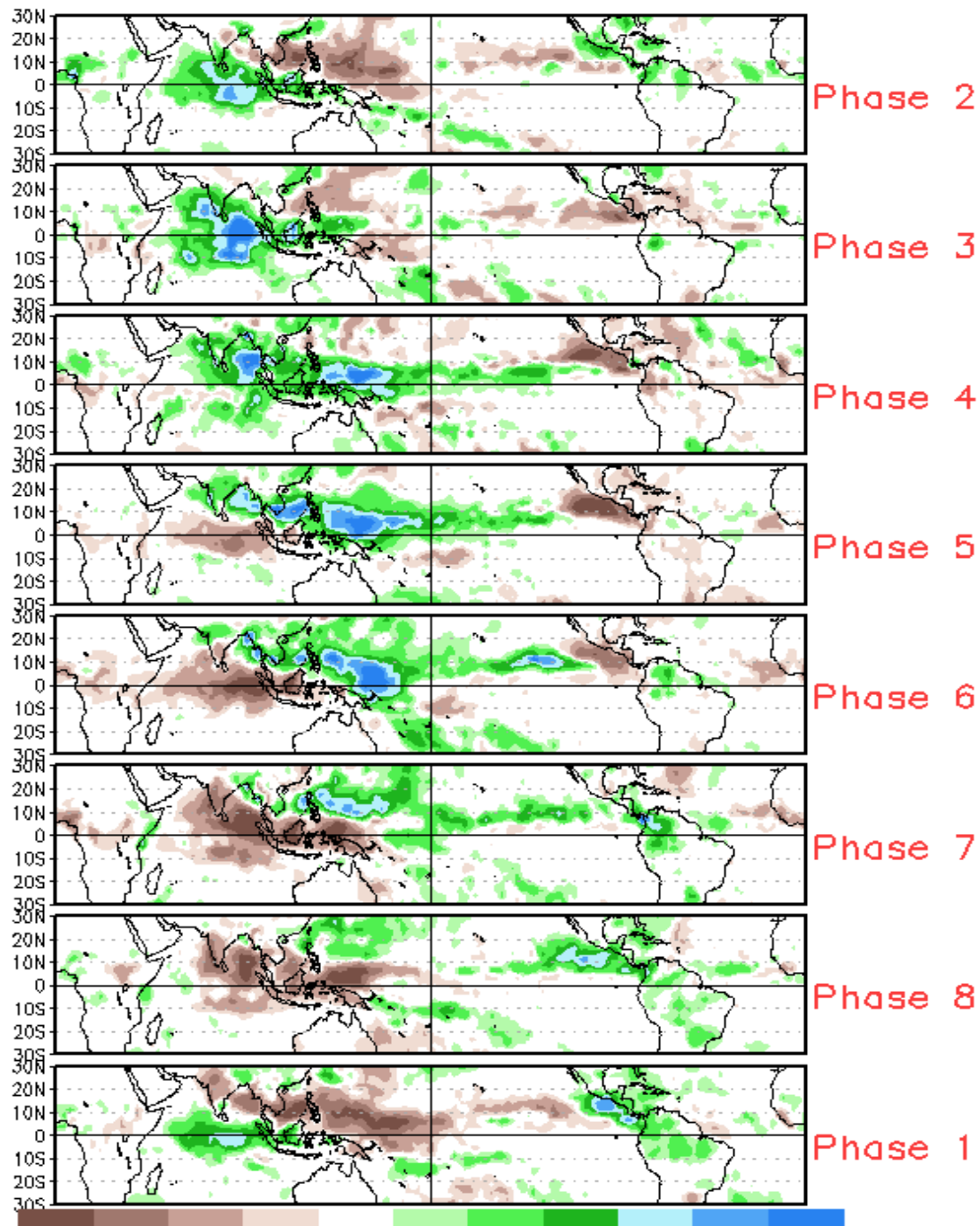


MJO Index Forecast for 27May2013-10Jun2013



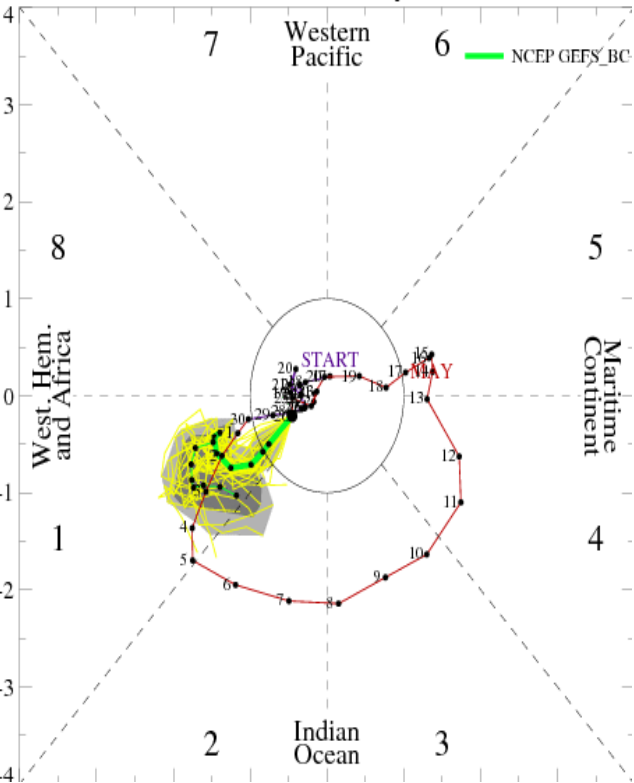
MJO Index Forecast for 27May2013-10Jun2013



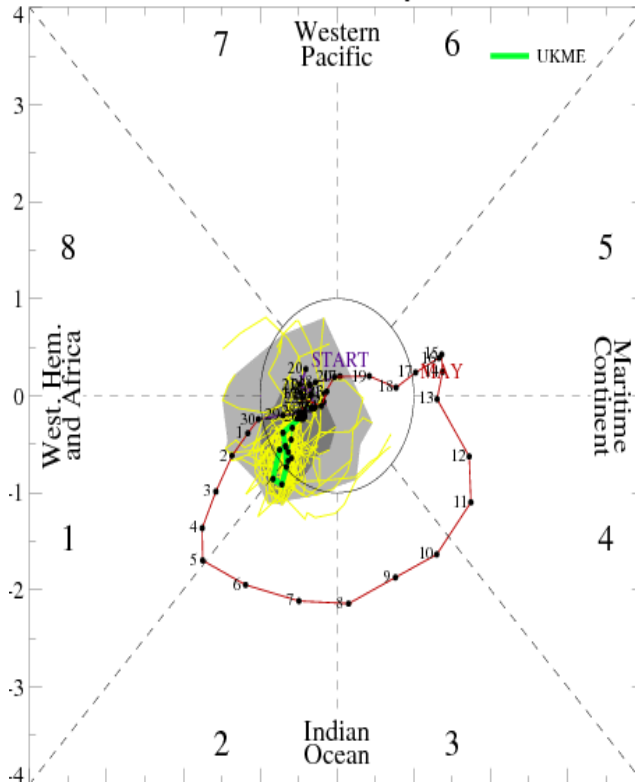


MJO Observation/Forecast

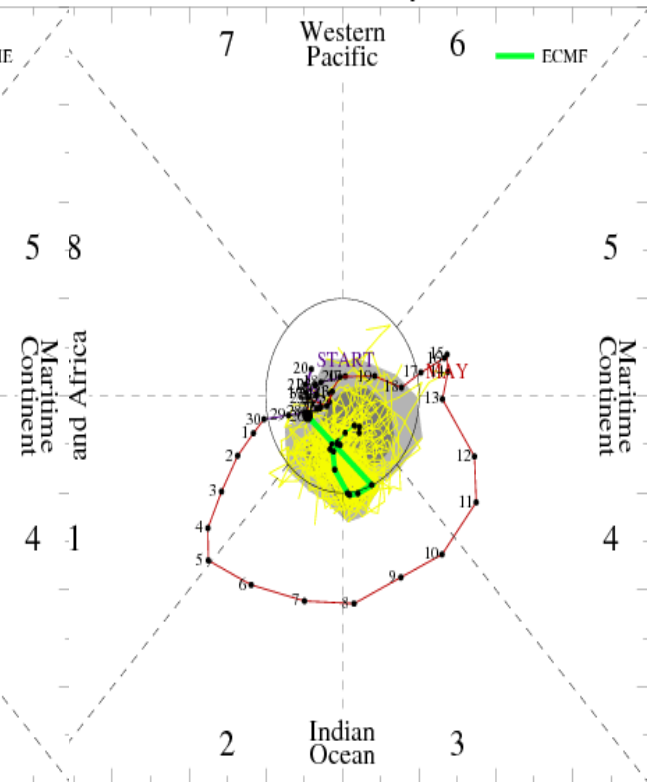
MJO Index Forecast for 27May2013-10Jun2013



MJO Index Forecast for 27May2013-10Jun2013



MJO Index Forecast for 27May2013-10Jun2013

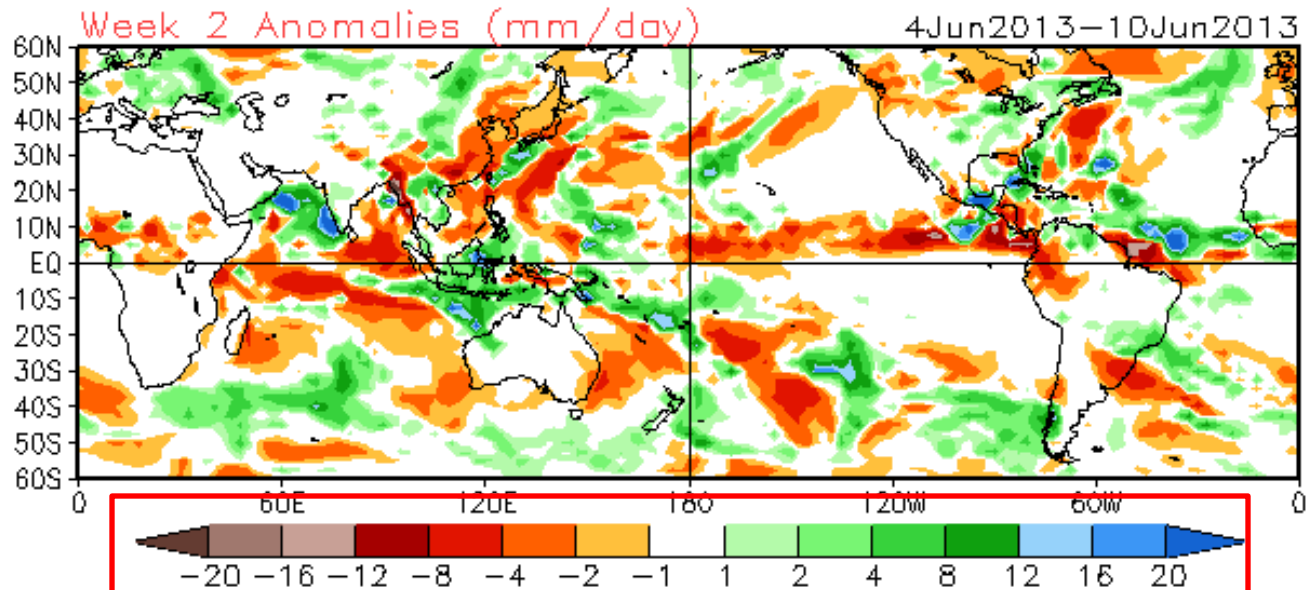
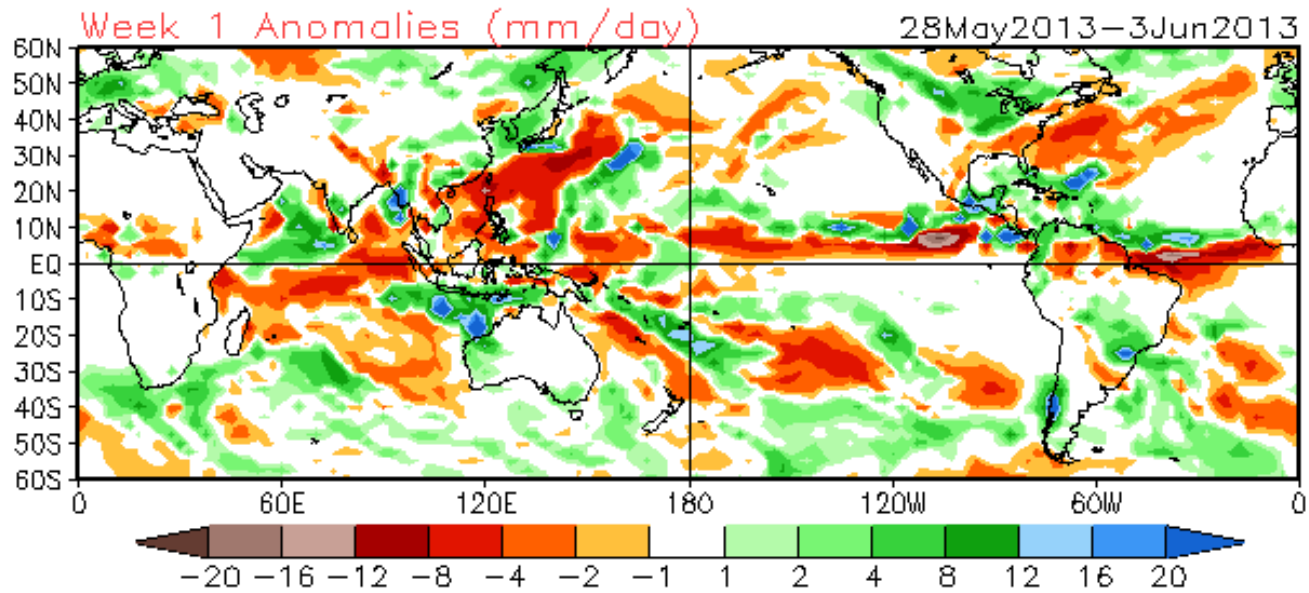


GFS

UKMET

ECMWF

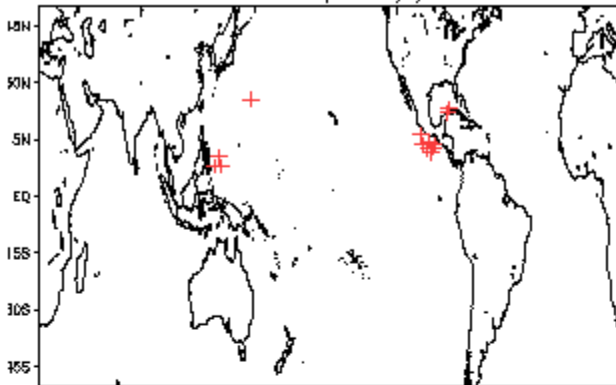
Average Conditions when the MJO is present (May-Sep)



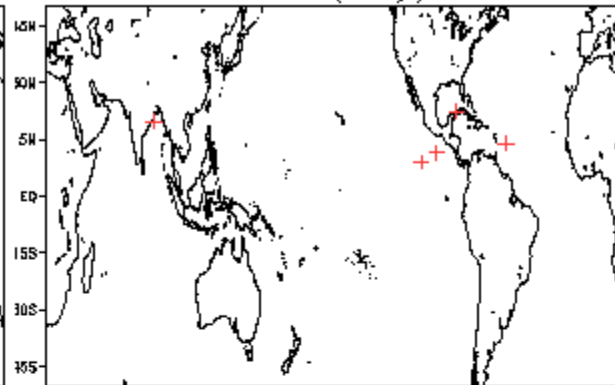
Week-2

GFS Model June Tropical Storm Formation by MJO phase

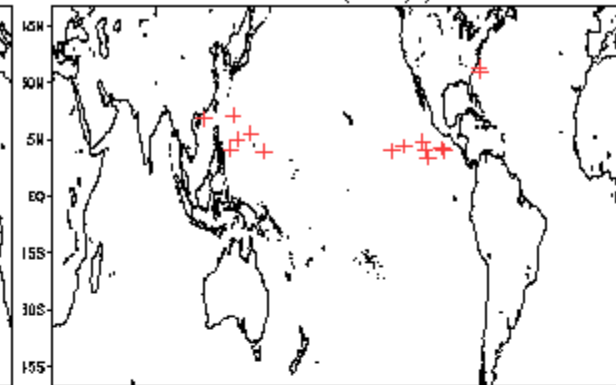
Phase 1 (104 days) 14 storms



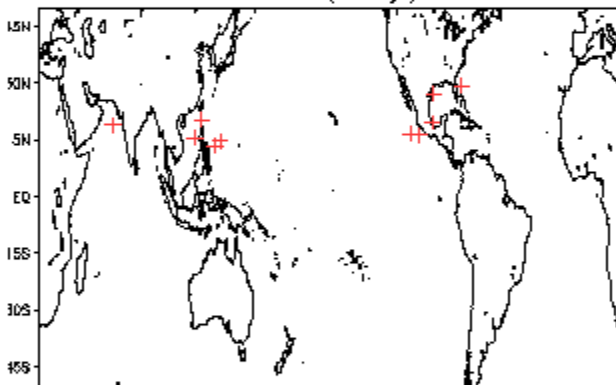
Phase 4 (80 days) 6 storms



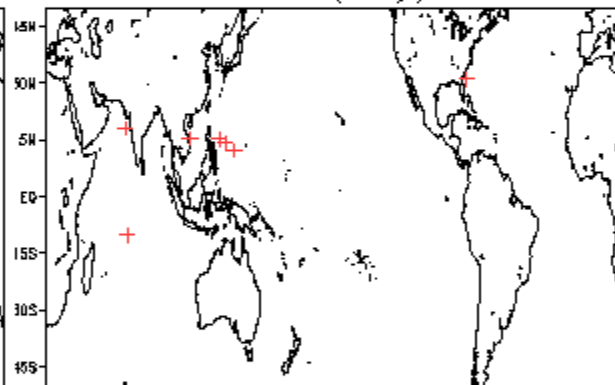
Phase 7 (45 days) 16 storms



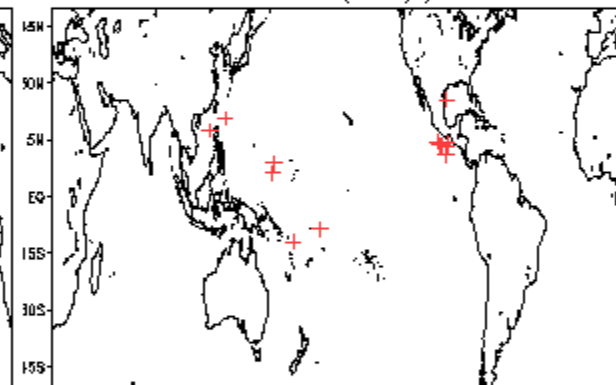
Phase 2 (82 days) 11 storms



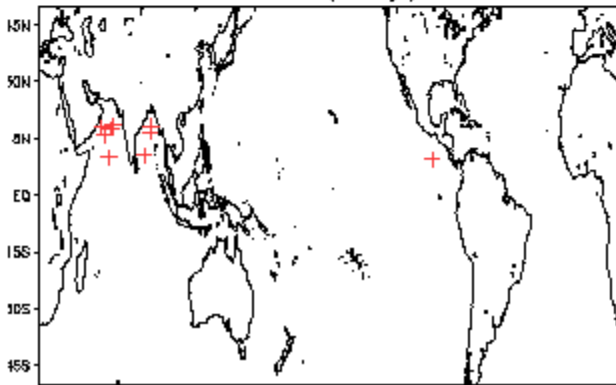
Phase 5 (77 days) 8 storms



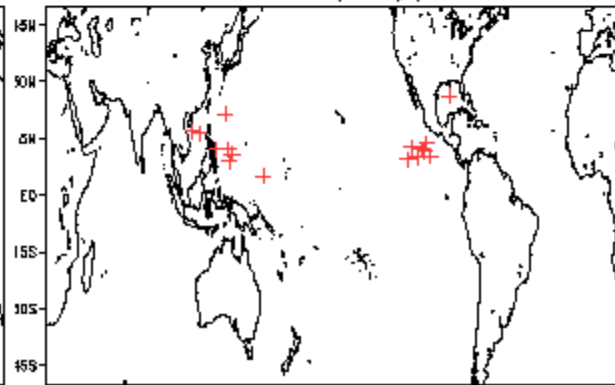
Phase 8 (70 days) 15 storms



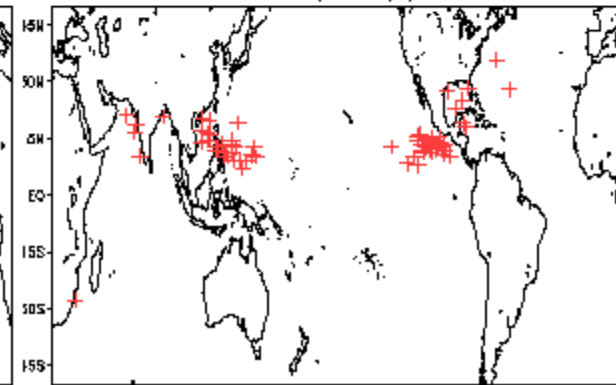
Phase 3 (57 days) 10 storms



Phase 6 (82 days) 17 storms



Null (423 days) 71 storms





Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



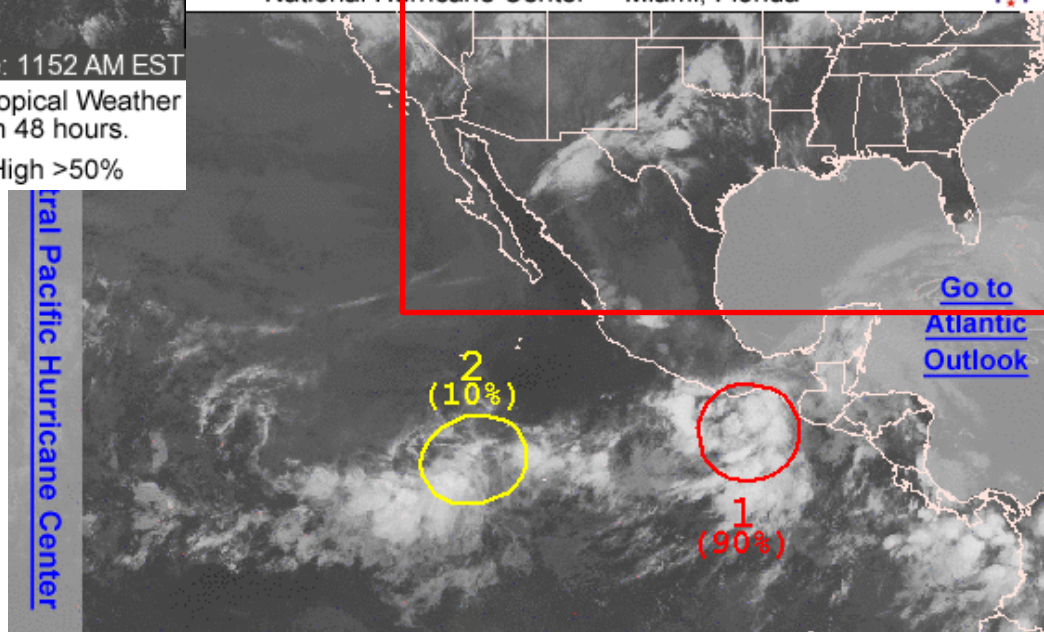
Outlined areas denote current position of systems discussed in the Tropical Weather Outlook. Color indicates probability of tropical cyclone formation within 48 hours.

- Low <30%
- Medium 30-50%
- High >50%

Central Pacific Hurricane Center

Graphical Tropical Weather Outlook

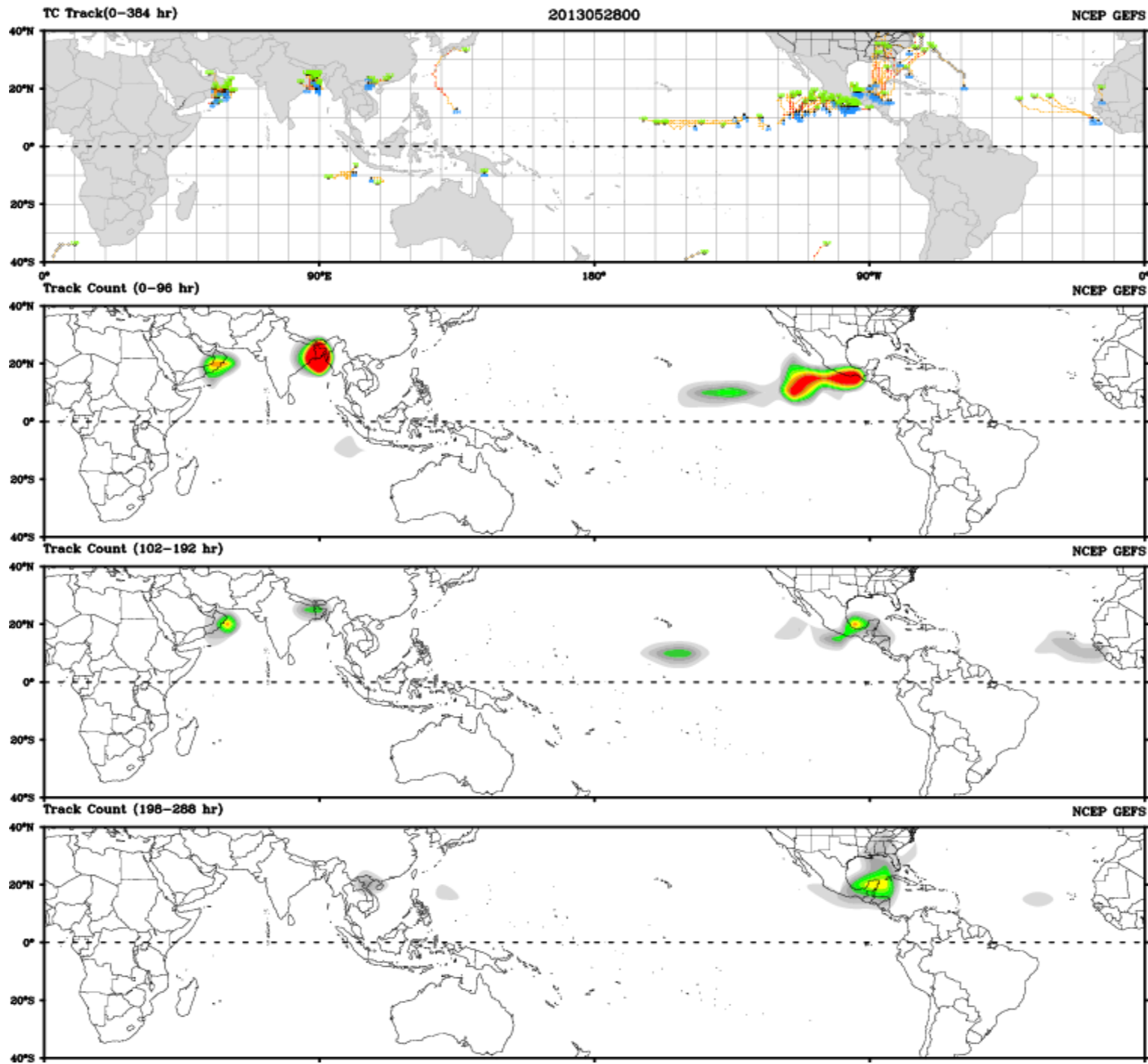
National Hurricane Center Miami, Florida



Outlined areas denote current position of systems discussed in the Tropical Weather Outlook. Color indicates probability of tropical cyclone formation within 48 hours.

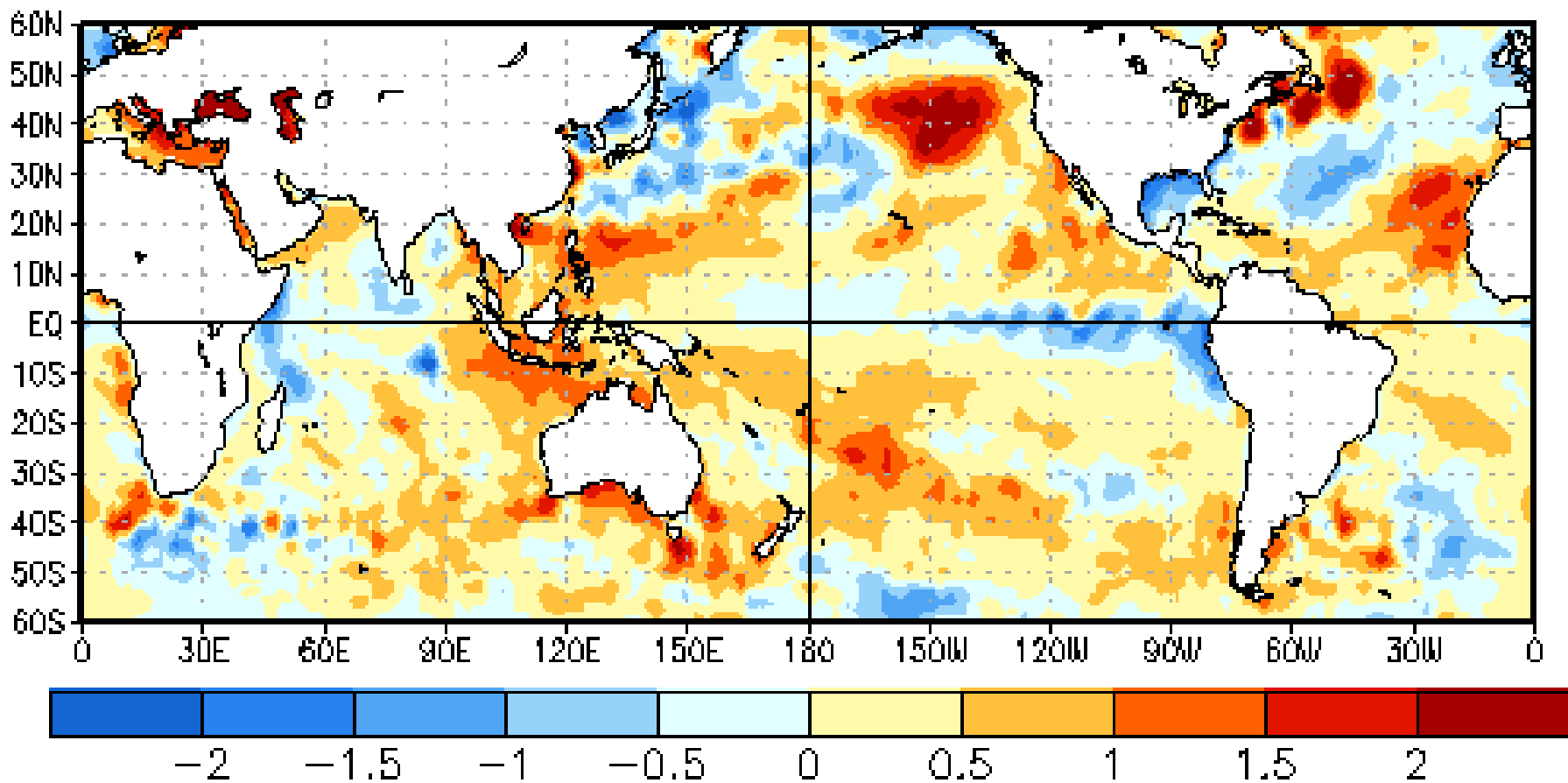
- Low <30%
- Medium 30-50%
- High >50%

CWB TC Tracker for NCEP GEFS (Fuzzy_AllCriteria)

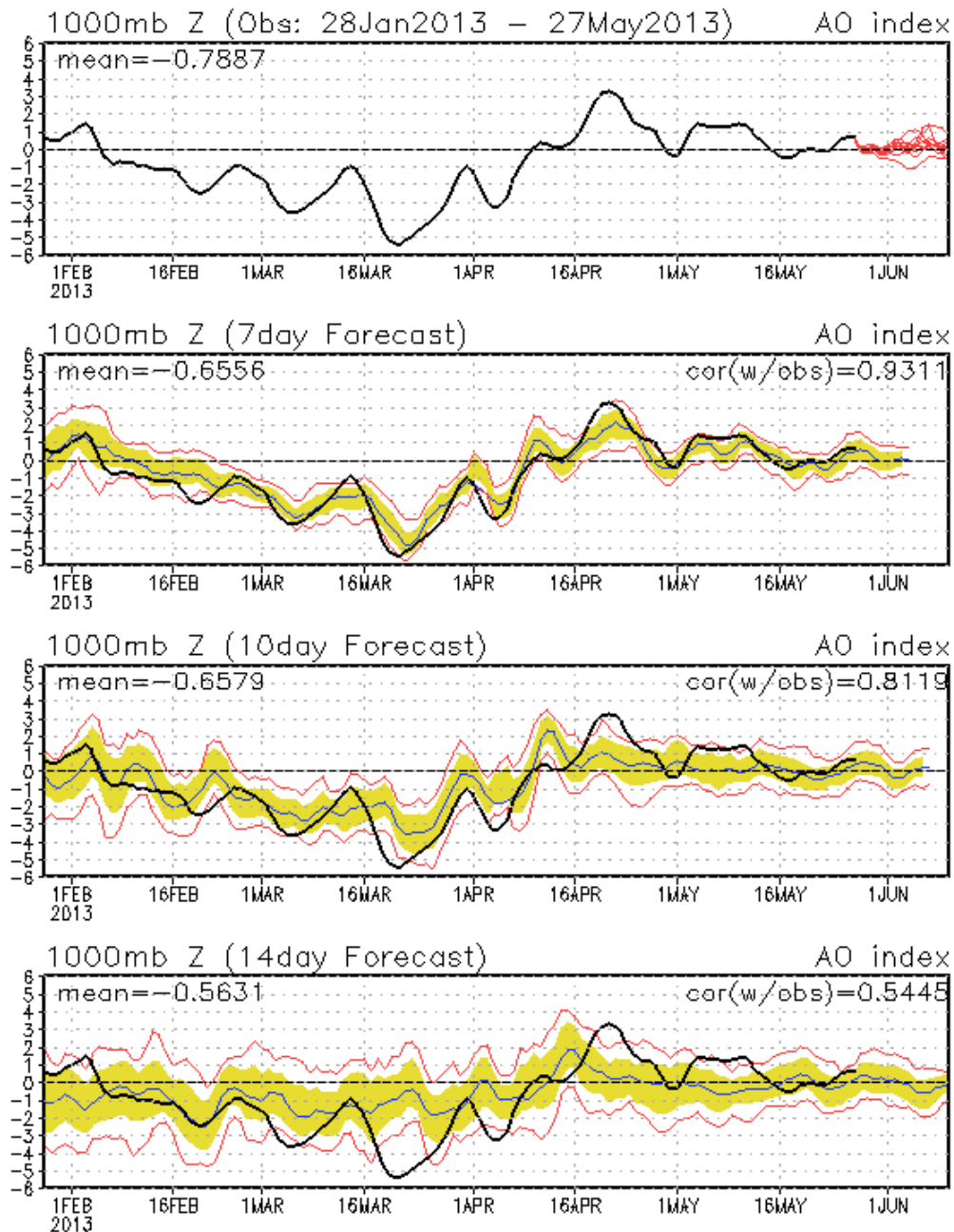


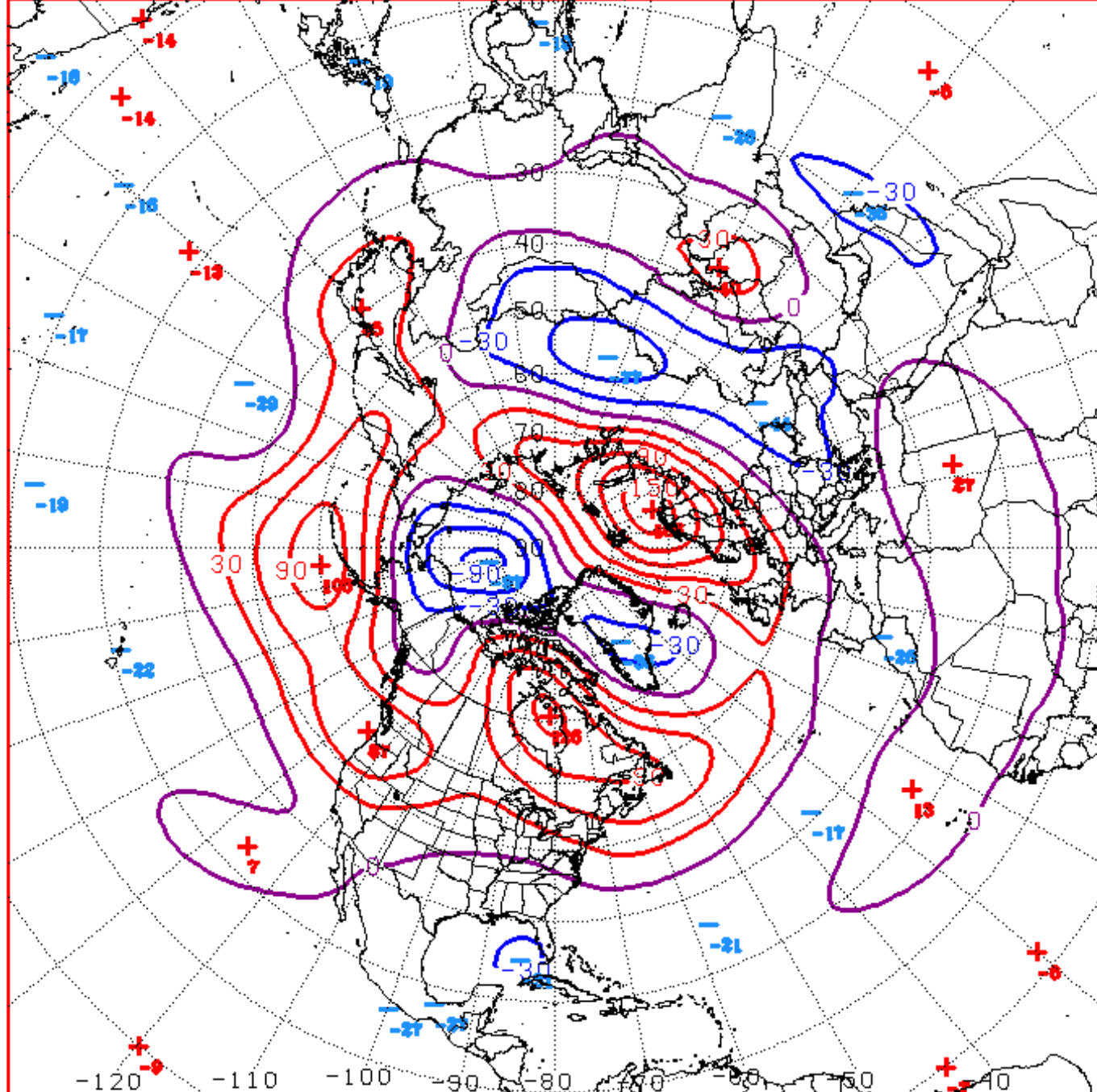
SST Anomalies (°C)

15 MAY 2013

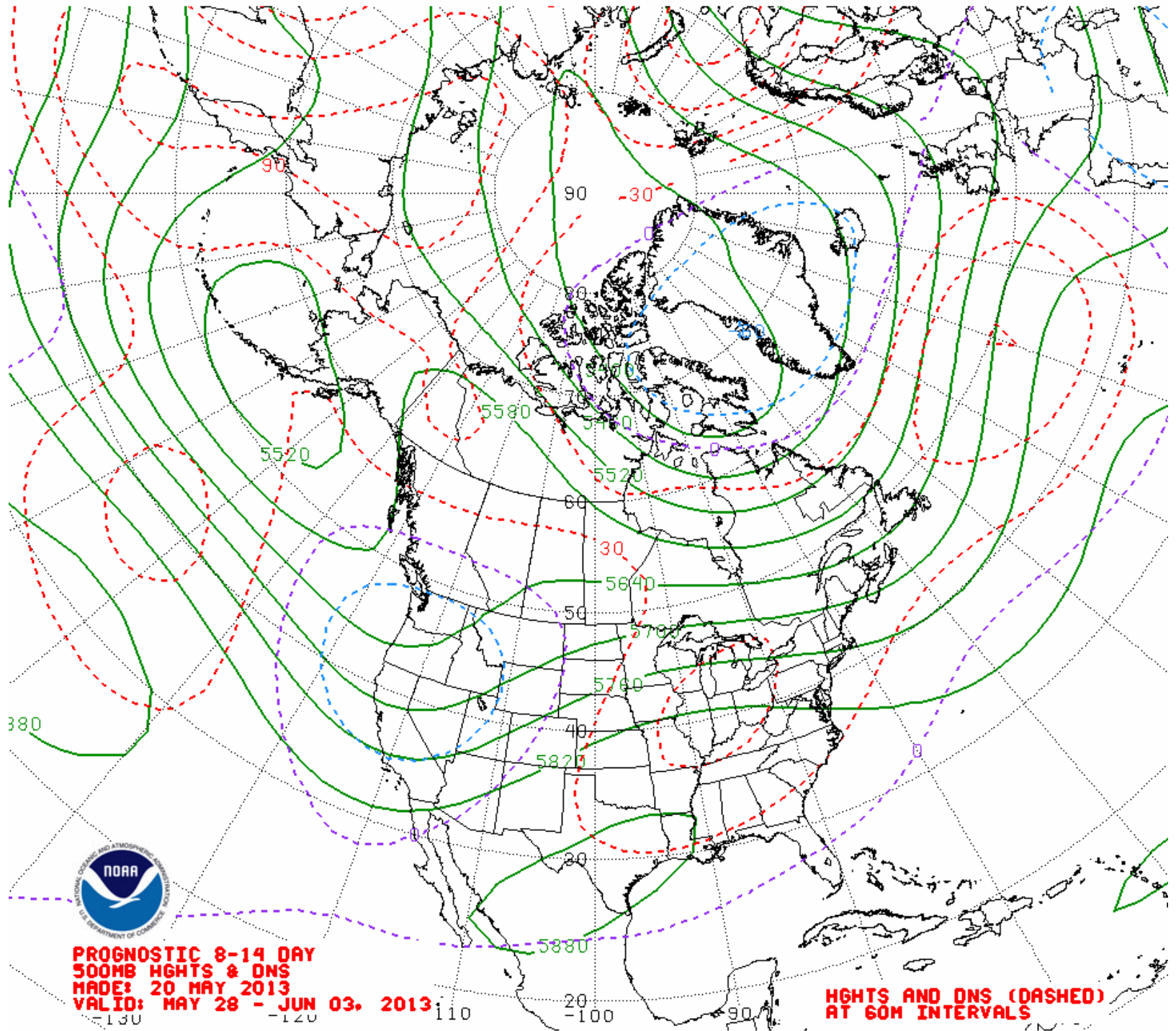


AO: Observed & ENSM forecasts





D+11 500 MB ANOMALIES FROM 00Z ECMM
 CPC MAP MADE MAY 28 2013 1037 UTC CNTD JUN 08 2013



**PROGNOSTIC 8-14 DAY
500MB HGTs & DNS
MADE: 20 MAY 2013
VALID: MAY 28 - JUN 03, 2013**

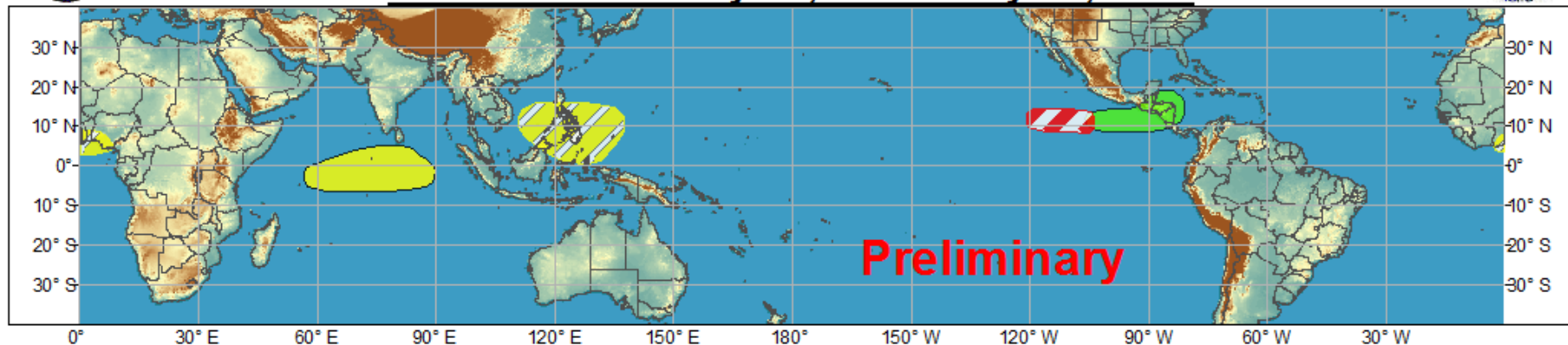
**HGTs AND DNS (DASHED)
AT 60M INTERVALS**



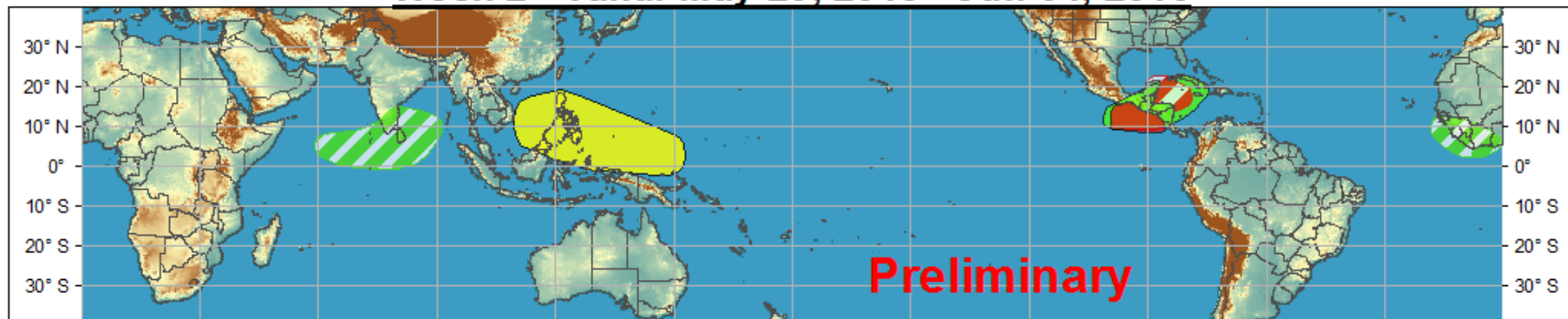
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center



Week 1 - Valid: May 22, 2013 - May 28, 2013



Week 2 - Valid: May 29, 2013 - Jun 04, 2013



Confidence
High Moderate

Tropical Cyclone Formation

Above-average rainfall

Below-average rainfall

Above-normal temperatures

Below-normal temperatures



Development of a tropical cyclone that eventually reaches tropical storm/cyclone strength.

Weekly total rainfall in the upper third of the historical range.

Weekly total rainfall in the lower third of the historical range.

7-day mean temperatures in the upper third of the historical range.

7-day mean temperatures in the lower third of the historical range.

Produced: 05/20/2013

Forecaster: Pugh

Product is updated once per week. The product targets broad scale conditions integrated over a 7-day period for US interests only. Consult your local responsible forecast agency.

