Global Tropics Hazards And Benefits Outlook

May 15, 2012

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Outline

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

**ENSO:**
--La Nina has transitioned to ENSO-neutral conditions and is expected to continue through northern summer.

**MJO:**
--The MJO remained incoherent during the past week
--Weak or incoherent MJO activity is expected during the next 1-2 weeks

**Extratropics:**
--Tropical moisture feeding into southeast coast along stationary front over Bahamas and Caribbean, week 1
--Possible tropical cyclone in western Caribbean, early week 2
Global Tropical Hazards/Benefits Outlook - Climate Prediction Center

Week 1 - Valid: May 17, 2012 - May 23, 2012

Preliminary

Week 2 - Valid: May 24, 2012 - May 30, 2012

Preliminary

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.

Produced: 05/15/2012

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.
SST Observations

SST Anomalies (°C)

09 MAY 2012

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The image depicts a map showing SST (Sea Surface Temperature) anomalies with a color scale indicating temperature deviations. The map covers the globe with different regions highlighted in various colors to represent temperature anomalies ranging from -2°C to 2°C.
Nino3.4 SST Anomaly Forecasts

Mid-Apr 2012 Plume of Model ENSO Predictions

Dynamical Model:
- NCEP CFSv2
- NASA GMAO
- NCEP CFS
- JMA
- SCRIPPS
- LDEO
- AUS/POAMA
- ECMWF
- UKMO
- KMA SNU
- ESSIC ICM
- ECHAMMOM
- COLA ANOM
- MetFRANCE
- JPN-FRCGC
- COLA CCSM3
- CS-IRI-MM
- GFDL CM2.1
- CMC CANSIP

Statistical Model:
- CPC MRRKOV
- CDC LIM
- CPC CA
- CPC CCA
- CSU CLIPR
- UBC NNET
- FSU REGR
- UCLA-TCD
Official Early-May CPC/IRI Consensus Probabilistic ENSO Forecast

ENSO state based on NINO3.4 SST Anomaly

Neutral ENSO: −0.45°C to 0.45°C

- Red: El Niño
- Green: Neutral
- Blue: La Niña

Probability (%)

Time Period

AMJ 2012  MJJ  JJA  JAS  ASO  SON  OND  NDJ  DJF 2013
MJO Observation/Forecast

MJO Index Forecast for 14May2012-28May2012

MJO Index Forecast for 14May2012-28May2012
CFS Precipitation Weeks 1-2

CFSv2 Weeks 1 & 2 Precipitation
16 Member Ensemble Mean Forecast from 14May2012

Week 1 Anomalies (mm/day) 15May2012–21May2012

Week 2 Anomalies (mm/day) 22May2012–28May2012
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