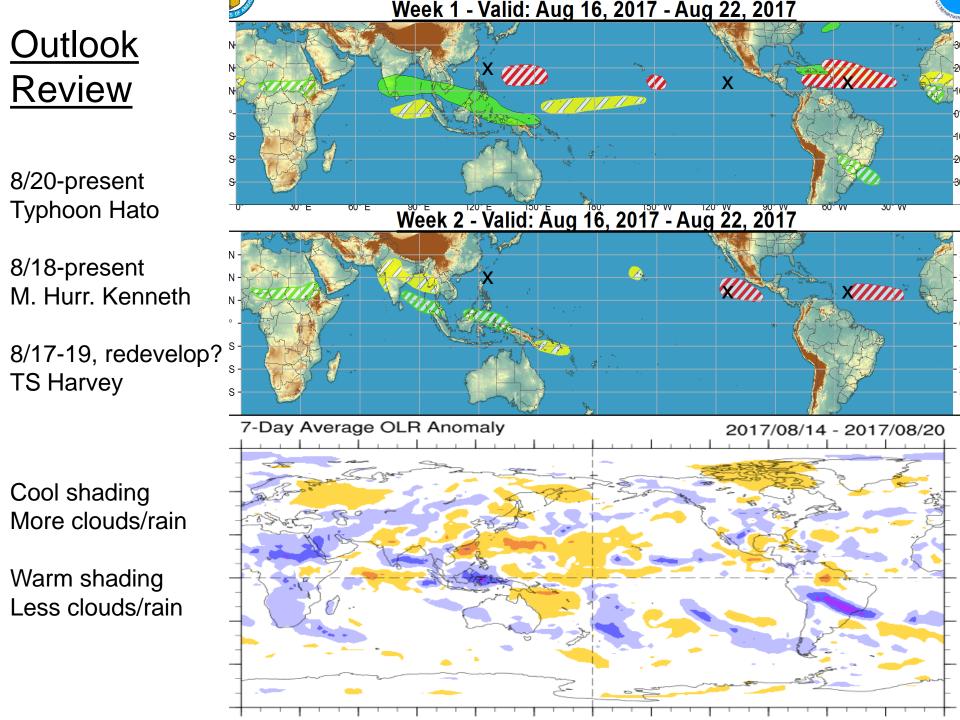
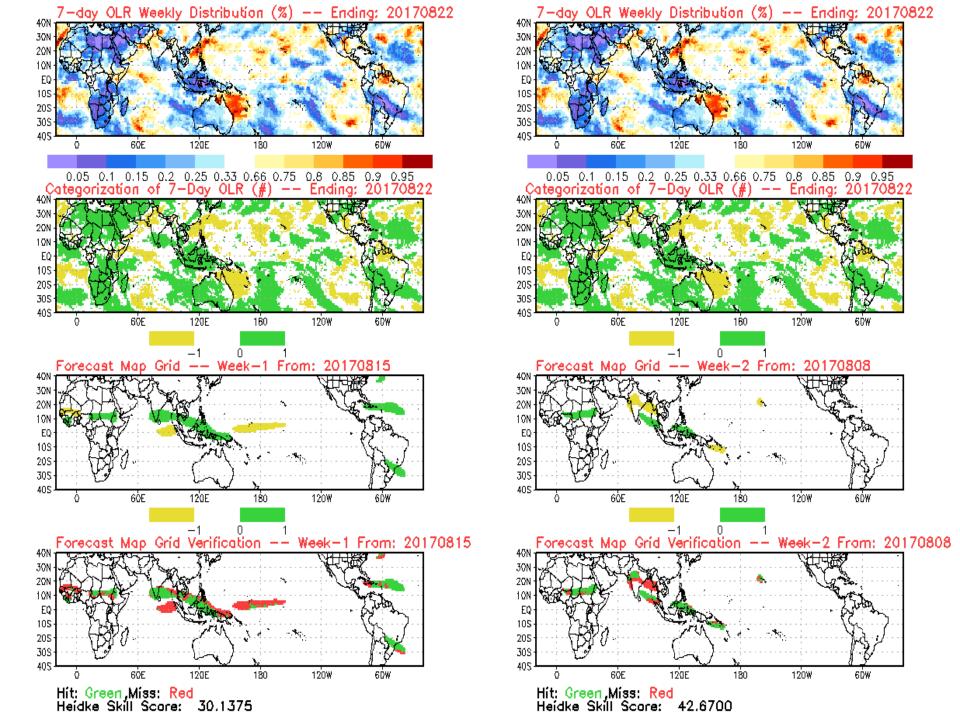
Global Tropics Hazards And Benefits Outlook 8/22/2017

Dan Harnos

Outline

- 1. Review of Recent Conditions
- 2. Synopsis of Climate Modes
- 3. GTH Outlook and Forecast Discussion
- 4. Connections to U.S. Impacts





Synopsis of Climate Modes

ENSO:

- ENSO-neutral is favored (~85% chance during Jul-Sep, decreasing to ~55% during Dec-Feb) through the Northern Hemisphere winter 2017-18.
- The next ENSO Diagnostic Discussion will be released on 14 September.

MJO and other subseasonal tropical variability:

- The MJO continued to exhibit weakness over the past week, with limited variability apparent other than a pair of Kelvin waves.
- Dynamical models consistently forecast an intraseasonal feature emerging over the Indian Ocean during Week-1 and approaching the Maritime Continent in Week-2. Differences lie in the strength of this mode, but its character is consistent with the MJO.

Extratropics:

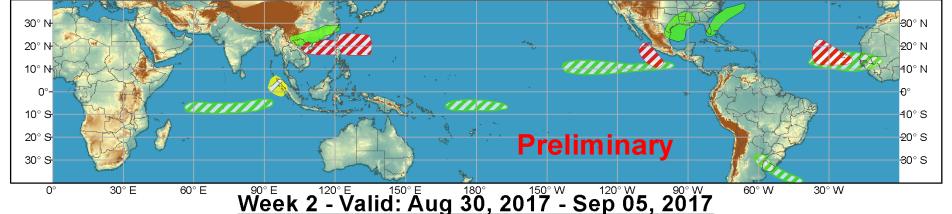
• The extended range temperature and precipitation forecasts for the U.S. are not likely to be impacted by MJO activity but tropical cyclone-related impacts will impact the Gulf States, Florida, and potentially the Southwest in Week-2.



Global Tropics Hazards and Benefits Outlook - Climate Prediction Center









Confidence High Moderate

Development of a tropical cyclone (tropical depression - TD, or greater strength).

Tropical Cyclone Formation 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, except from 6/1 - 11/30 for the region from 120E to 0, 0 to 40N. The product targets broad scale conditions integrated over a 7-day period for US interests only. Consult your local responsible forecast agency.













Forecaster: CPC



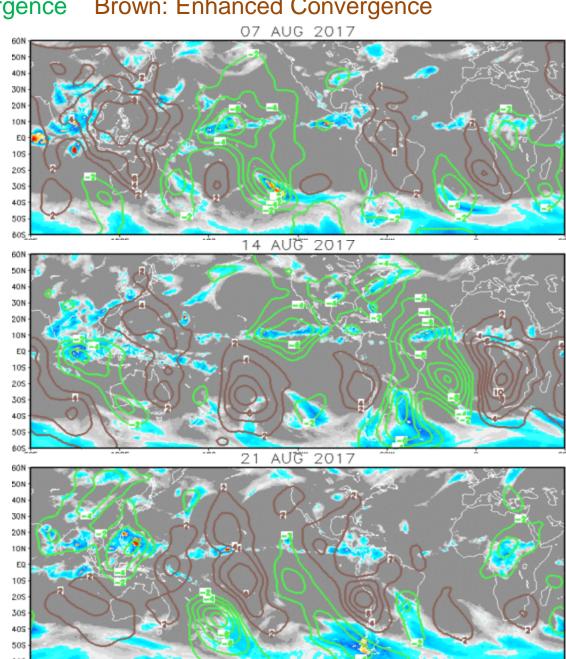
IR Satellite & 200-hpa Velocity Potential Anomalies

Green: Enhanced Divergence Brown: Enhanced Convergence

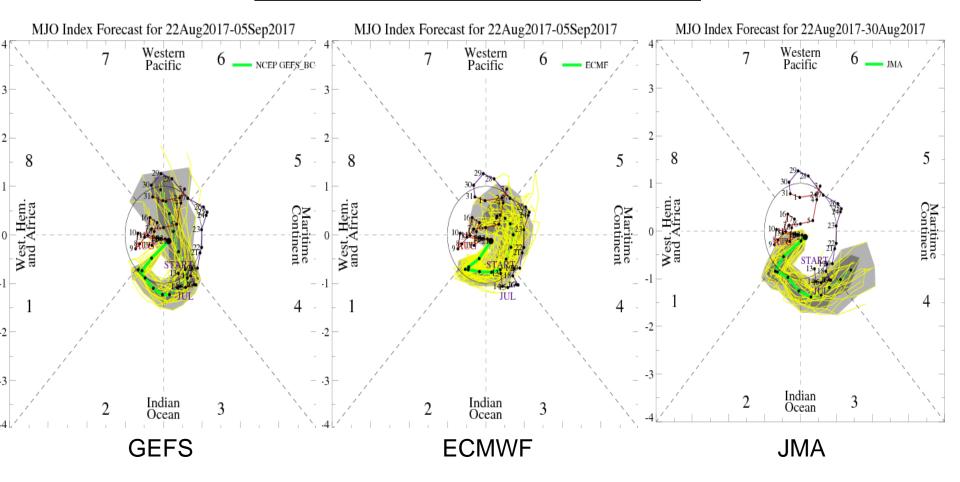
Little to no MJO projection.

Wave-2 pattern and generally disorganized.

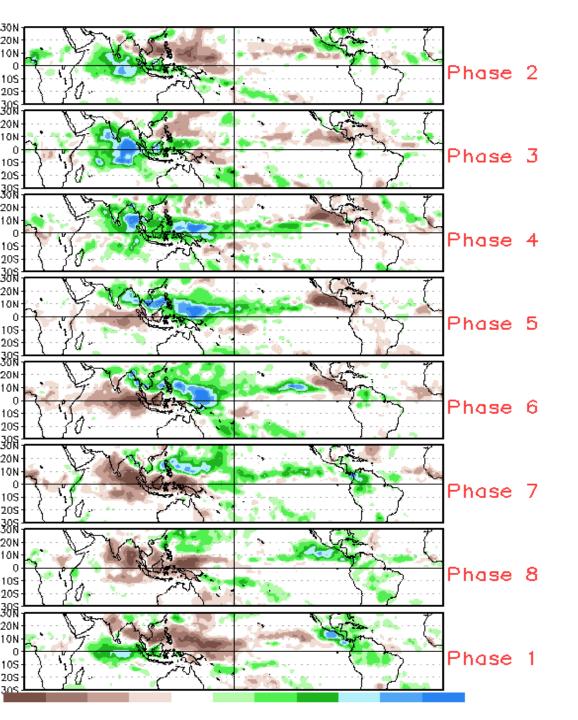
Somewhat wave-2 like, with extratropical influences throughout the tropics.



MJO Observation/Forecast



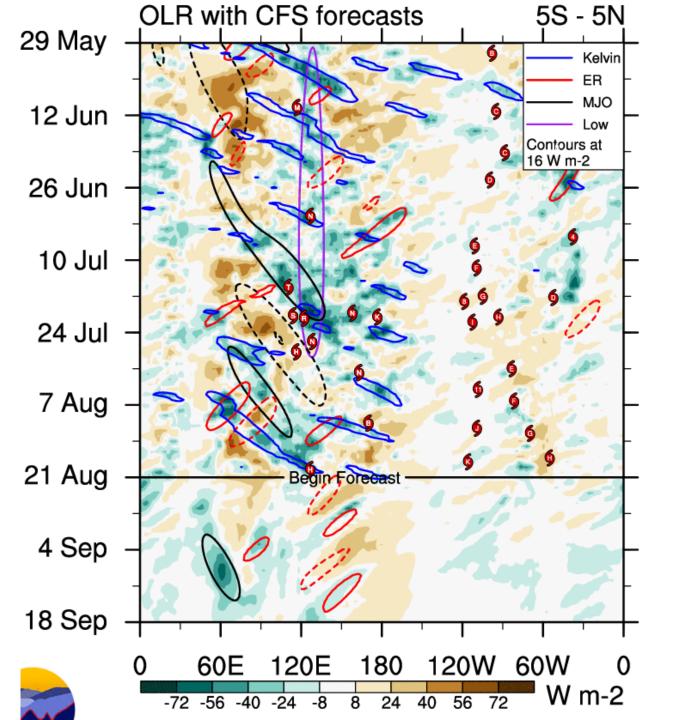
GEFS – regressed propagation followed by amplification over the Western Hemisphere ECMWF and JMA – weak signal, non-bias corrected weakly favors Indian Ocean



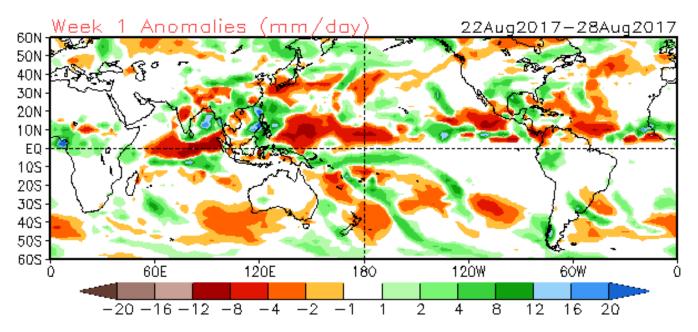
Average Conditions when the MJO is present

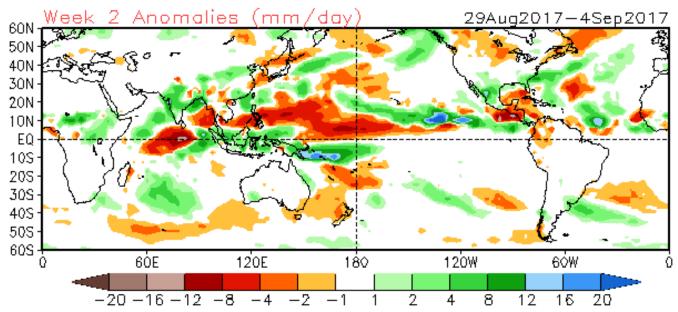
CAVEAT: These panels are representative of robust MJO events.

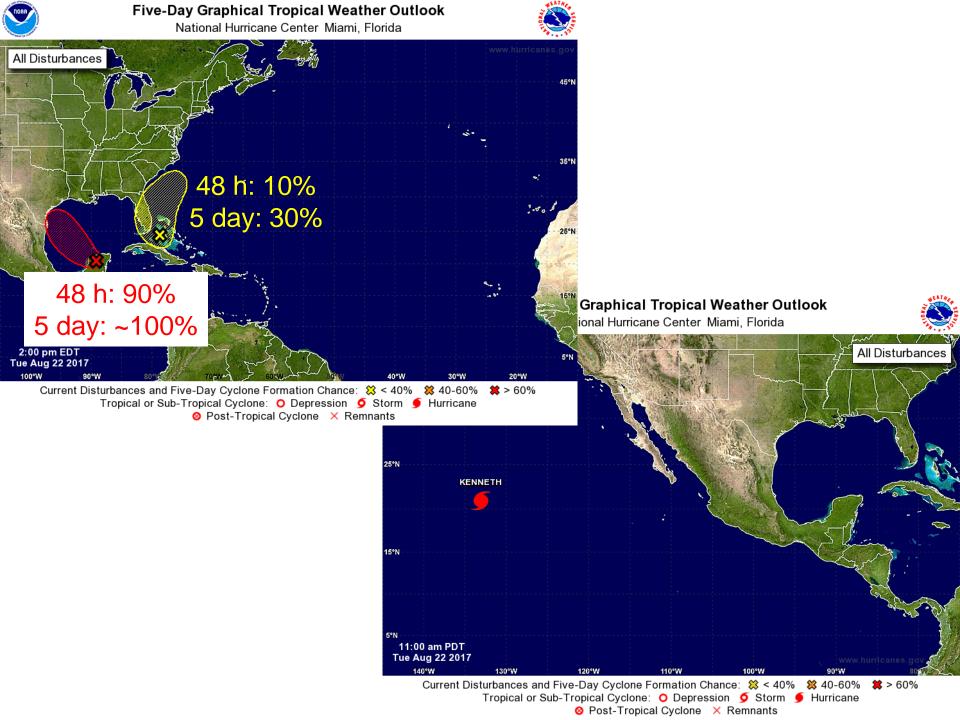
Kelvin wave activity observed over the Maritime Continent and near the Date Line.

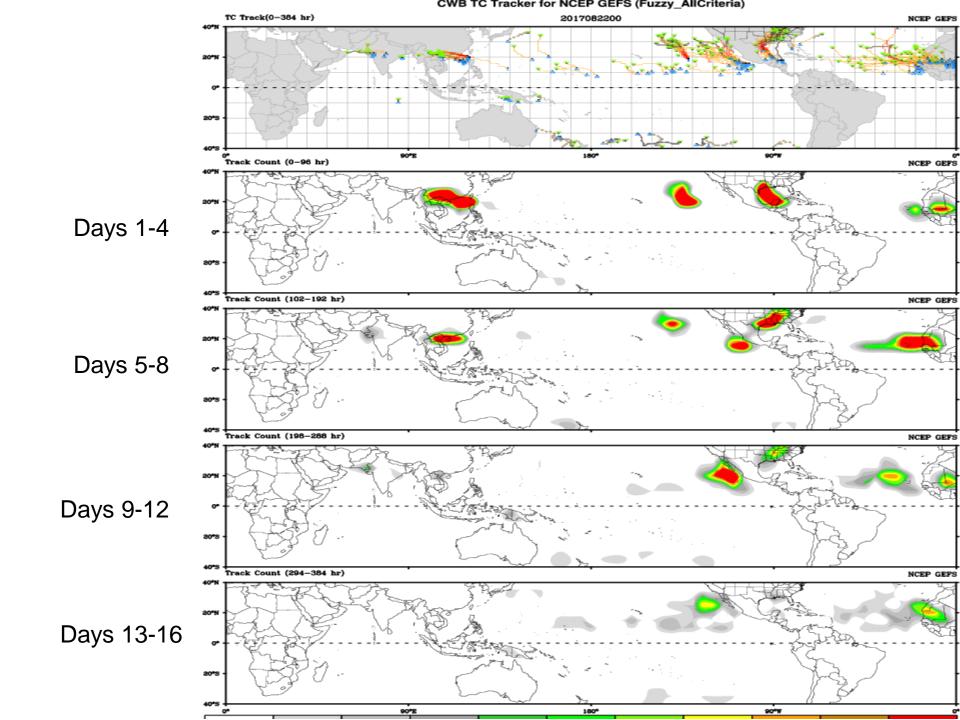


CFSv2 Weeks 1 & 2 Precipitation 16 Member Ensemble Mean Forecast from 21Aug2017

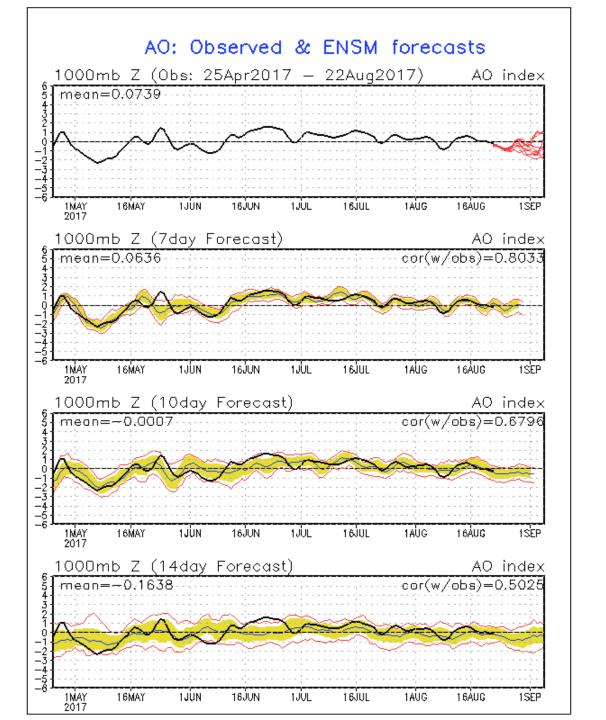


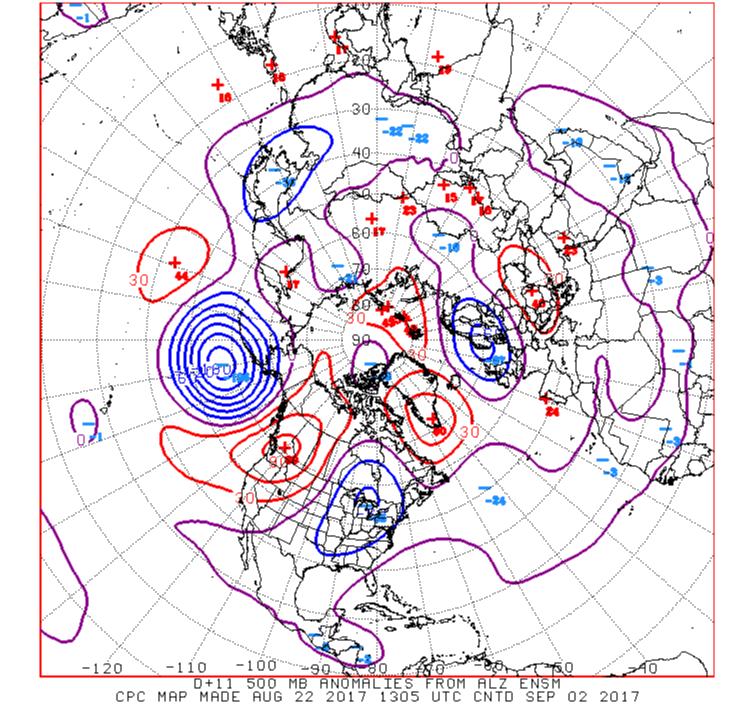




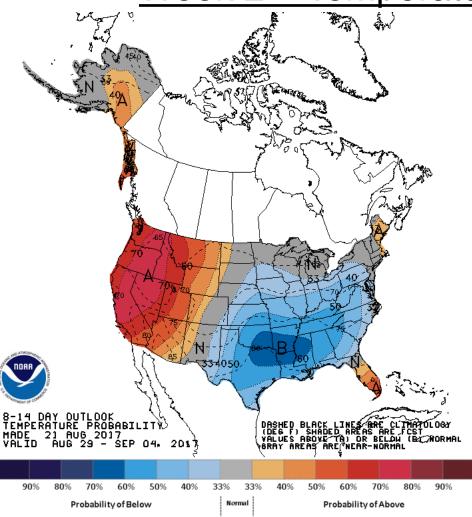


Connections to U.S. Impacts

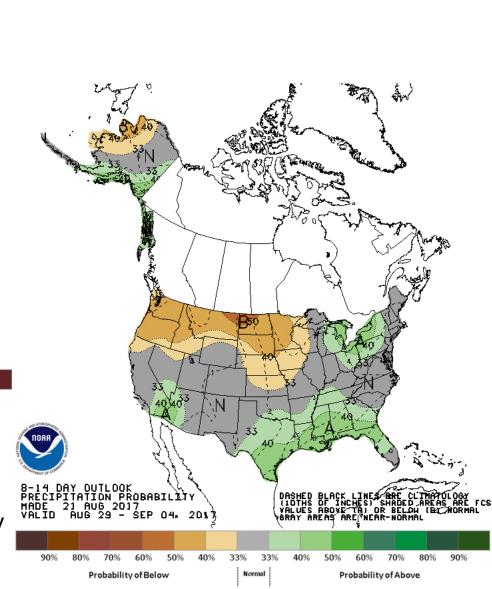




Week 2 - Temperature and Precipitation



Likely to increase wet odds in Southwest and Ohio Valley





Global Tropics Hazards and Benefits Outlook - Climate Prediction Center









Confidence
High Moderate

Produced: 08/22/2017

Forecaster: CPC

Tropical Cyclone Formation Development of a tropical cyclone (tropical depression - TD, or greater strength).

Below-average rainfall Weekly total rainfall in the lower third of the historical range.

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, except from 6/1 - 11/30 for the region from 120E to 0, 0 to 40N. The product targets broad scale conditions integrated over a 7-day period for US interests only. Consult your local responsible forecast agency.



Above-normal temperatures











