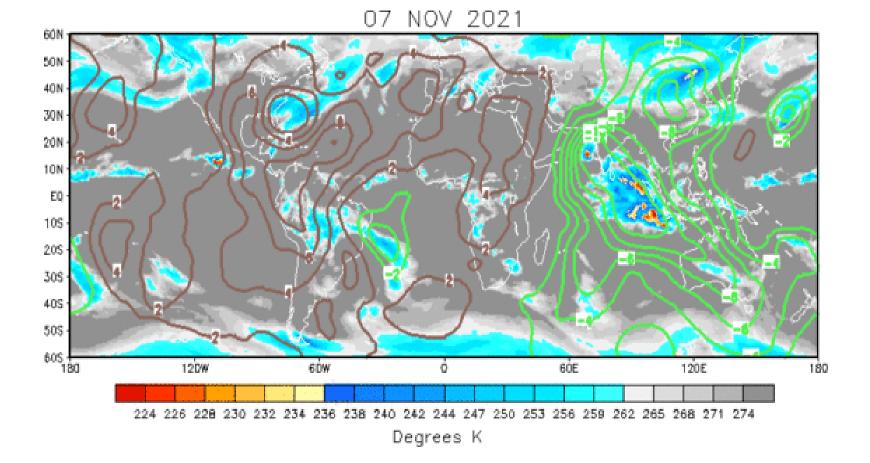
Second WMO RCC-Washington International Training Workshop

Real-time week-2 extreme precipitation outlook

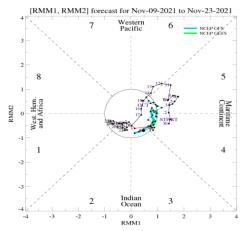
8 – 10 November 2021

200-hPa Velocity Potential Anomaly

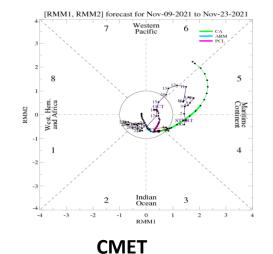


Wheeler-Hendon Index – Forecasts

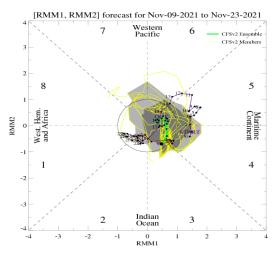
GEFS



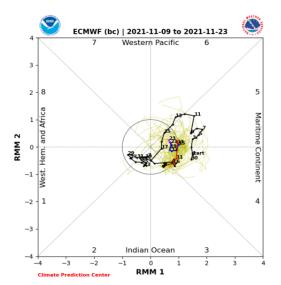
Statistical

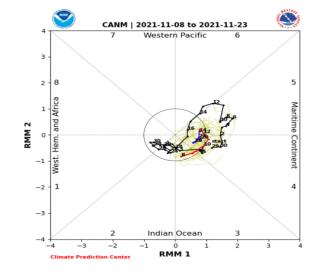


CFSv2

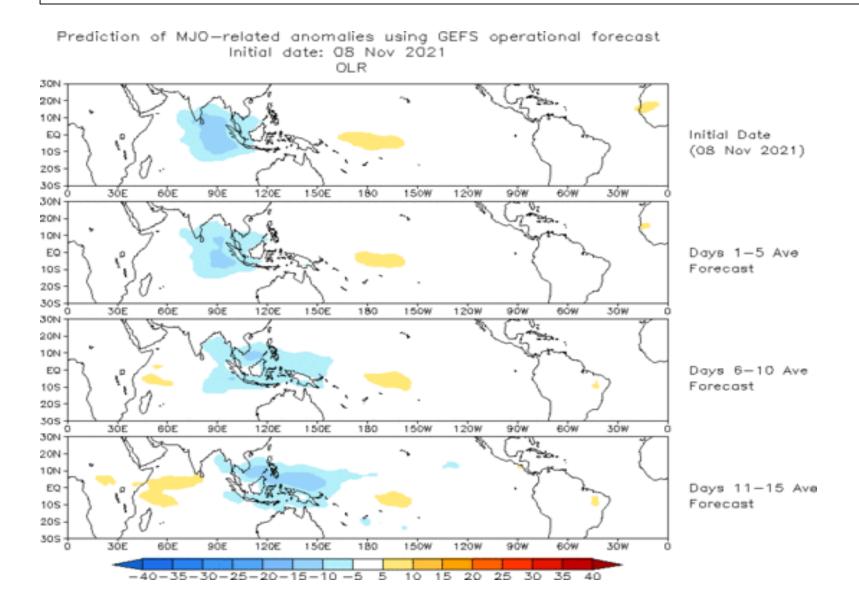


ECMWF





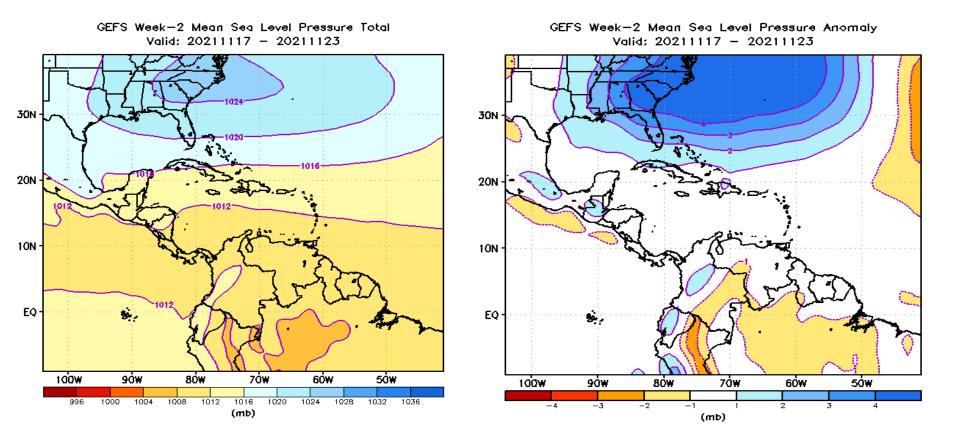
Evolution of MJO-related Anomalies



Mean Sea Level Pressure

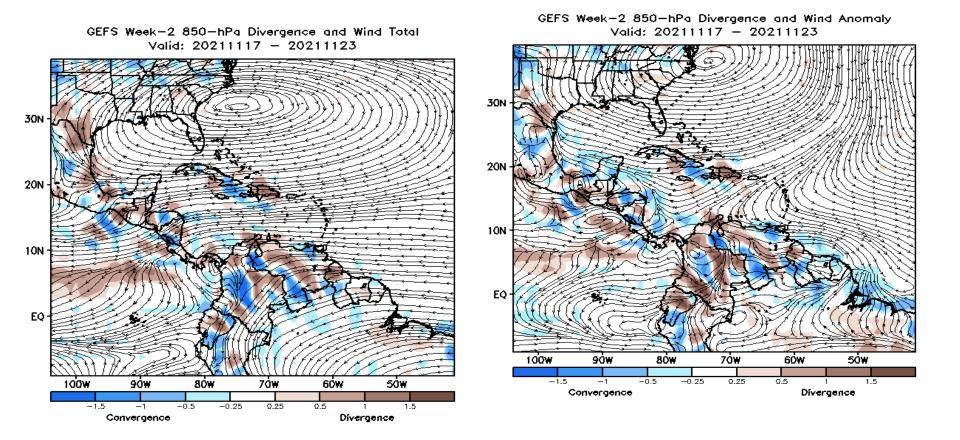
Total

Anomaly



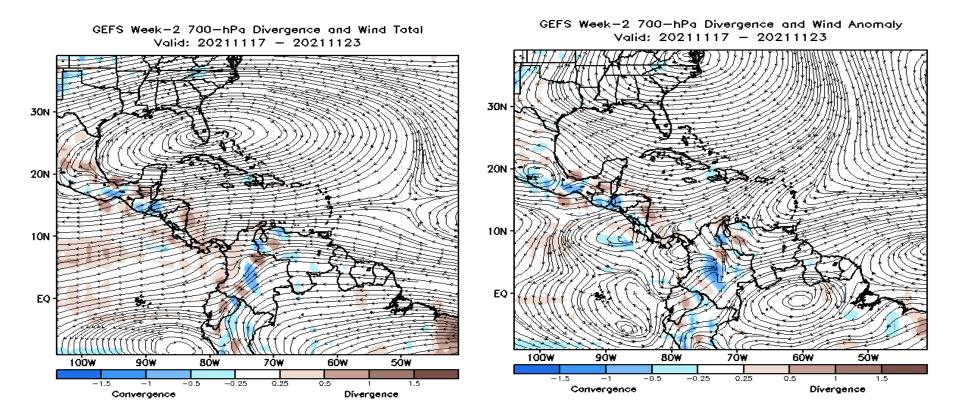
Total

Anomaly



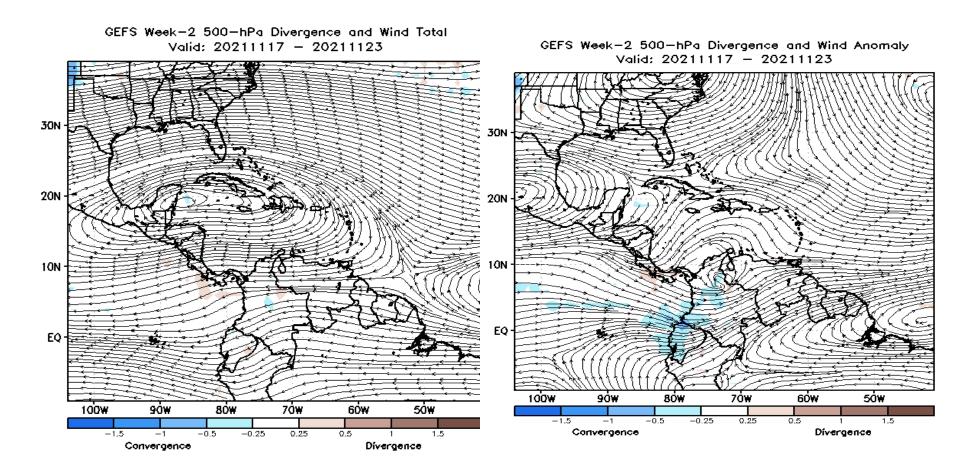
Total

Anomaly



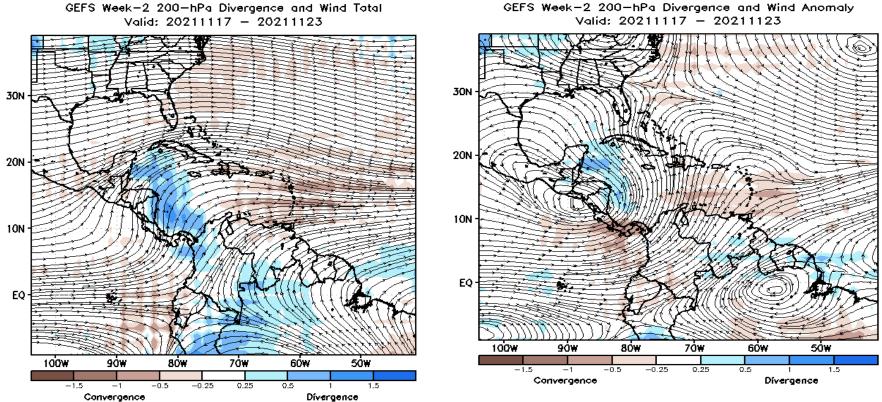
Total

Anomaly



Total

Anomaly

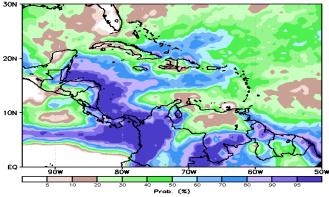


GEFS Week-2 200-hPa Divergence and Wind Anomaly

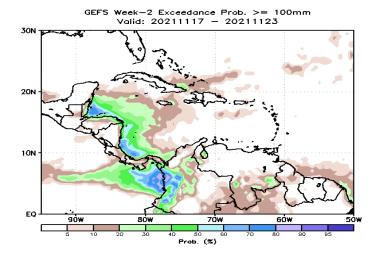
Precipitation Exceedance Probability

≥ 25mm

GEFS Week—2 Exceedance Prob. >= 25mm Valid: 20211117 — 20211123

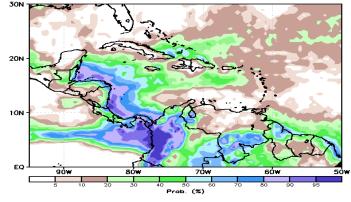


≥ 100mm



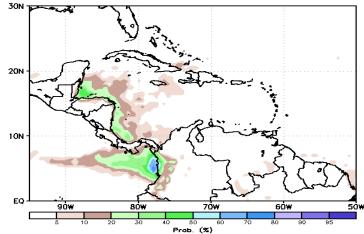
≥ 50mm

GEFS Week-2 Exceedance Prob. >= 50mm Valid: 20211117 — 20211123



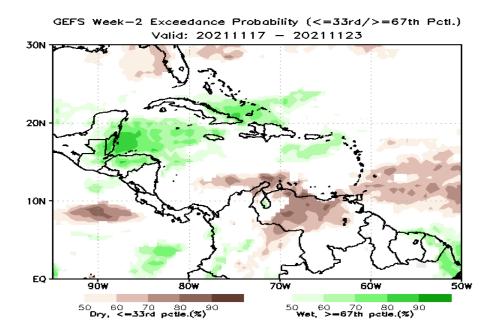
≥ 150mm

GEFS Week-2 Exceedance Prob. >= 150mm Valid: 20211117 - 20211123

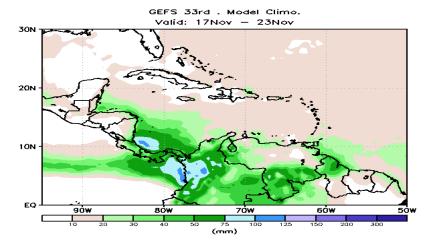


Precipitation Exceedance Probability (≤ 33rd & ≥ 67th percentiles)

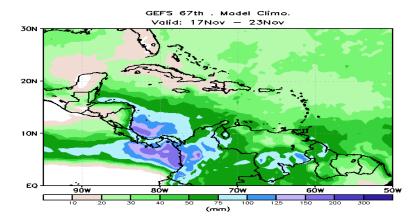
\leq 33rd & \geq 67th percentiles



33rd percentile climo

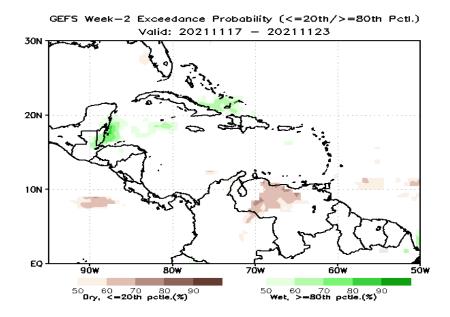


67th percentile climo

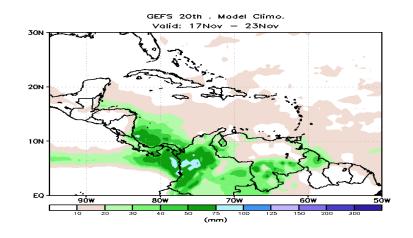


Precipitation Exceedance Probability (≤ 20th & ≥ 80th percentiles)

$\leq 20^{\text{th}} \& \geq 80^{\text{th}}$ percentiles

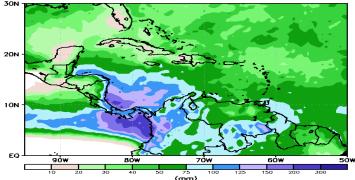


20th percentile climo



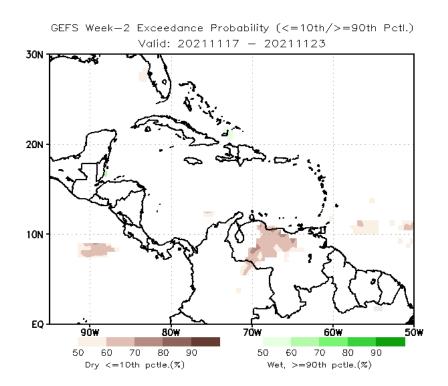
80th percentile climo

GEFS 80th . Madel Climo. Valid: 17Nov — 23Nov

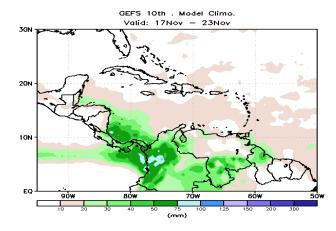


Precipitation Exceedance Probability (≤ 10th & ≥ 90th percentiles)

$\leq 10^{\text{th}} \& \geq 90^{\text{th}}$ percentiles

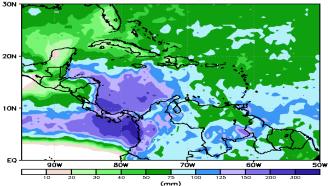


10th percentile climo



90th percentile climo

GEFS 90th . Madel Climo. Valid: 17Nov — 23Nov



Summary

Little or no MJO signal.

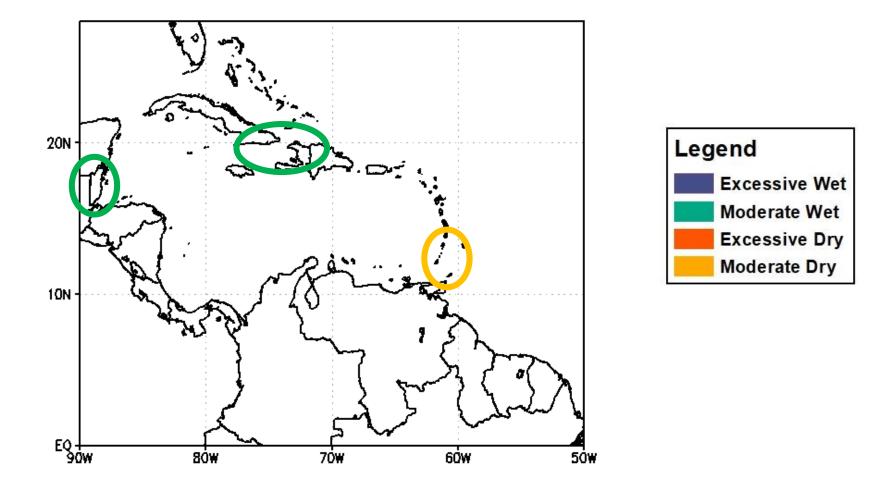
Anticyclonic anomaly at 850 & 700mb (lower levels)over W. Caribbean and US=high divergent flow in these areas and cyclonic anomaly over E. Atlantic stretching into Lesser Antilles.

Some upper-level convergence over the windward Islands and near ABC Islands

Exceedance probability forecasts=>67th & 80th percentile over Belize and portions of Greater Antilles.

Drier Conditions over the S. Windwards & ABC Islands (<33rd percentile)

Extreme Precipitation Outlooks



High exceedance over Greater Antilles and Belize and drier condition (<33rd percentile) over S. Windwards.