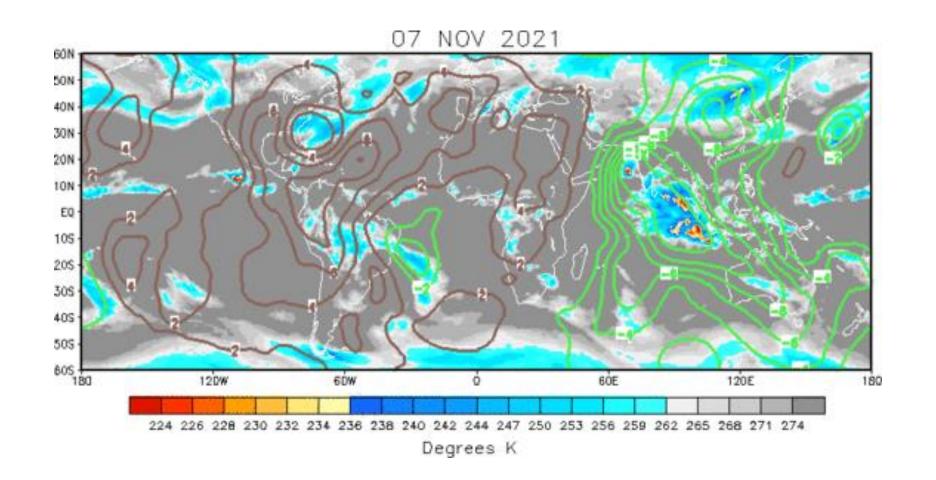
Second WMO RCC-Washington International Training Workshop

Real-time week-2 extreme precipitation outlook

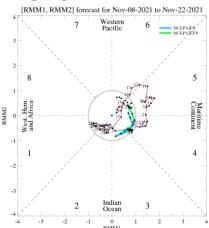
8 – 10 November 2021

200-hPa Velocity Potential Anomaly

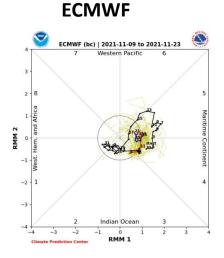


Wheeler-Hendon Index – Forecasts

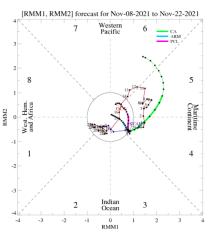




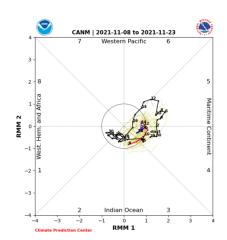
RMN



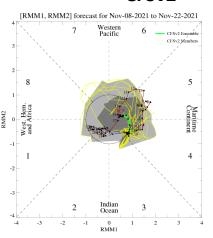
Statistical



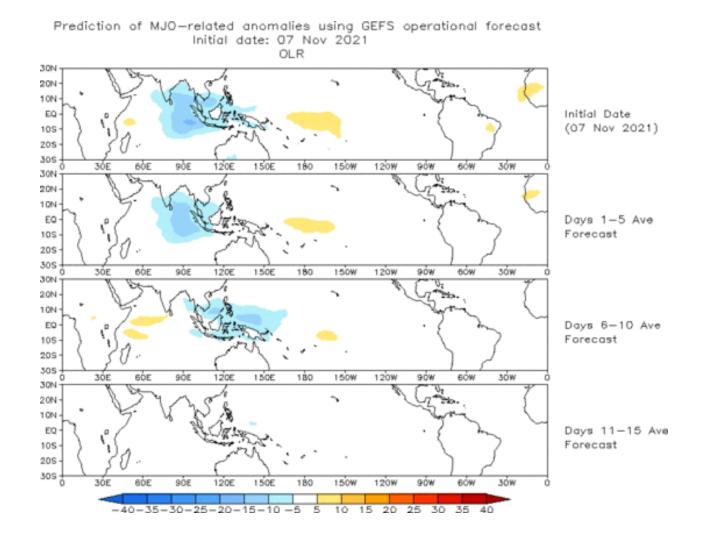
CMET



CFSv2



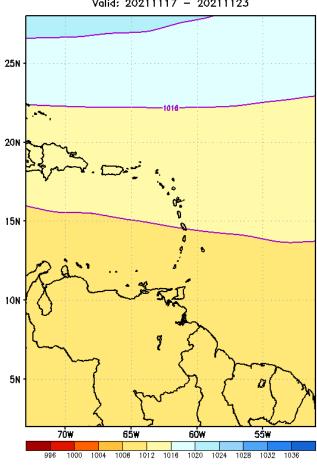
Evolution of MJO-related Anomalies



Mean Sea Level Pressure

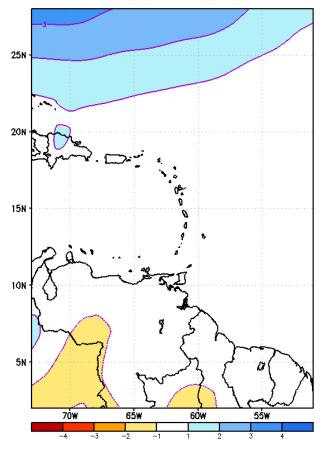
Total

GEFS Week-2 Mean Sea Level Pressure Total Valid: 20211117 - 20211123



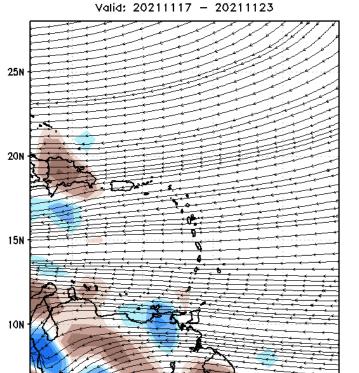
Anomaly

GEFS Week-2 Mean Sea Level Pressure Anomaly Valid: 20211117 - 20211123



Total

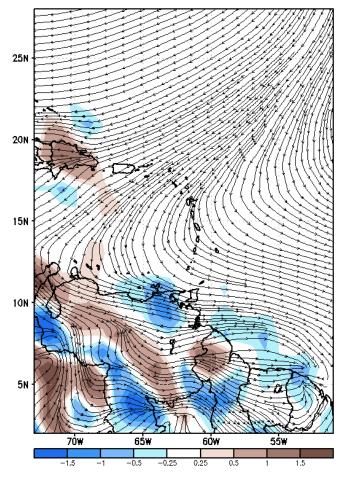
GEFS Week-2 850-hPa Divergence and Wind Total



5N ·

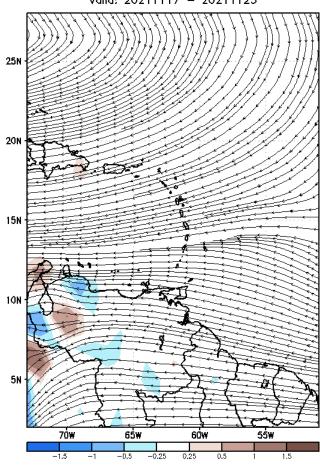
Anomaly

GEFS Week-2 850-hPa Divergence and Wind Anomaly Valid: 20211117 - 20211123



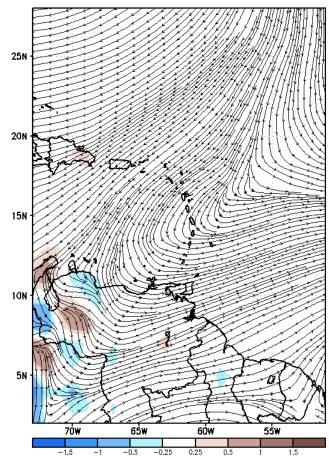
Total

GEFS Week-2 700-hPa Divergence and Wind Total Valid: 20211117 - 20211123



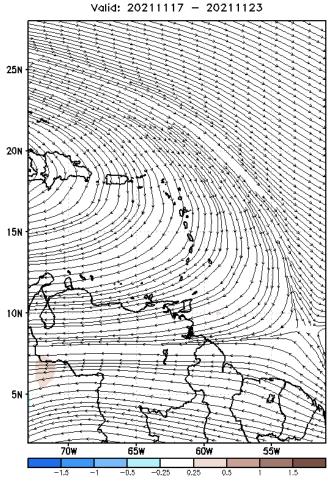
Anomaly

GEFS Week-2 700-hPa Divergence and Wind Anomaly Valid: 20211117 - 20211123



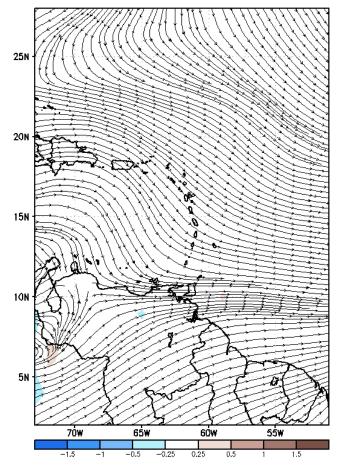
Total

GEFS Week-2 500-hPa Divergence and Wind Total



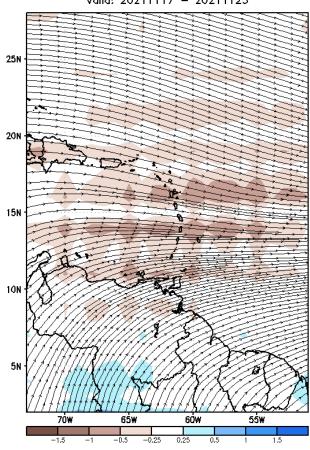
Anomaly

GEFS Week-2 500-hPa Divergence and Wind Anomaly Valid: 20211117 - 20211123



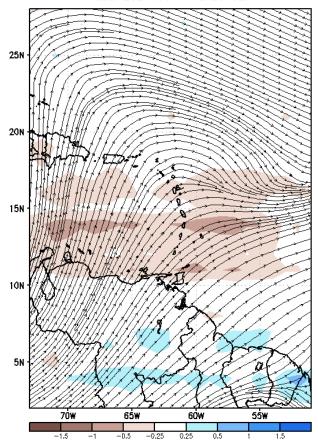
Total

GEFS Week-2 200-hPa Divergence and Wind Total Valid: 20211117 - 20211123



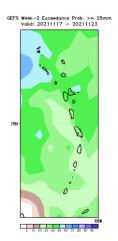
Anomaly

GEFS Week-2 200-hPa Divergence and Wind Anomaly Valid: 20211117 - 20211123

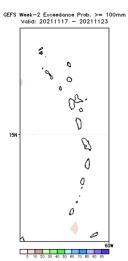


Precipitation Exceedance Probability

≥ 25mm



≥ 100mm



≥ 50mm



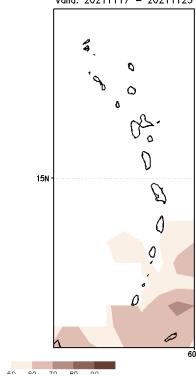
≥ 150mm

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

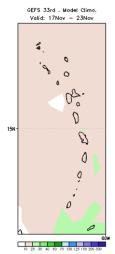
Precipitation Exceedance Probability (≤ 33rd & ≥ 67th percentiles)

≤ 33rd & ≥ 67th percentiles

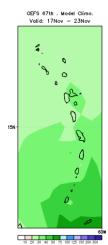
GEFS Week-2 Exceedance Probability (<=33rd/>=67th Pctl.)
Valid: 20211117 - 20211123



33rd percentile climo



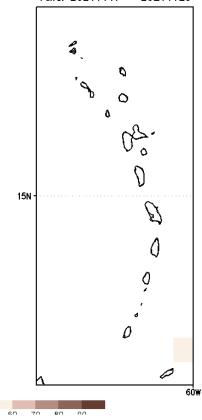
67th percentile climo



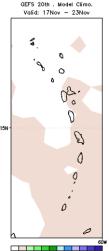
Precipitation Exceedance Probability (≤ 20th & ≥ 80th percentiles)

≤ 20th & ≥ 80th percentiles

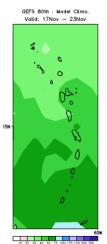
GEFS Week-2 Exceedance Probability (<=20th/>=80th Pctl.)
Valid: 20211117 - 20211123



20th percentile climo



80th percentile climo

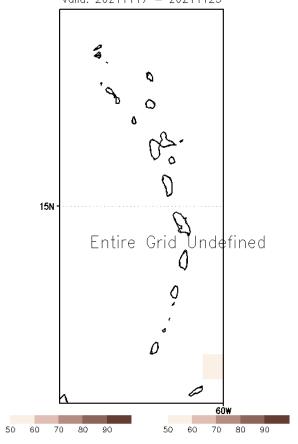


Precipitation Exceedance Probability (≤ 10th & ≥ 90th percentiles)

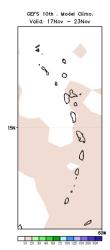
≤ 10th & ≥ 90th percentiles

GEFS Week-2 Exceedance Probability (<=10th/>=90th Pctl.)

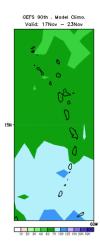
Valid: 20211117 - 20211123



10th percentile climo



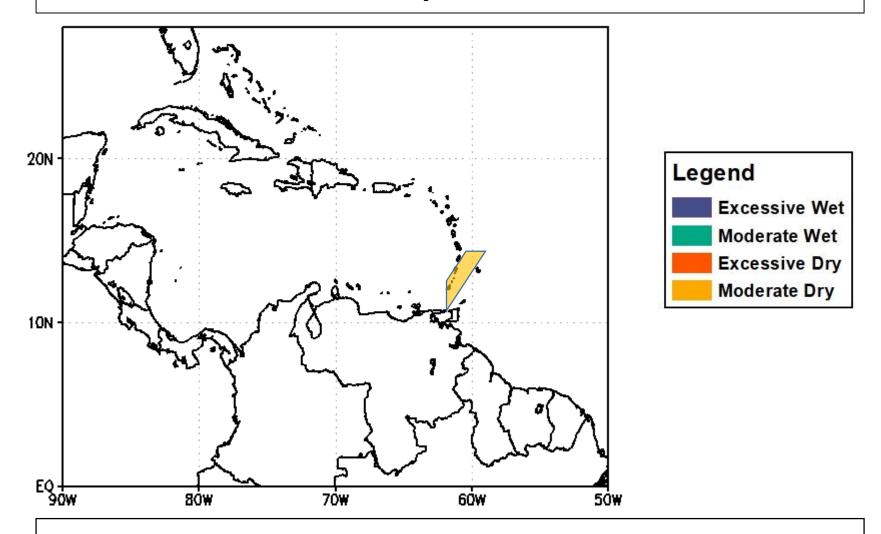
90th percentile climo



Summary

- MJO forecast suggest a lower amplitude for upcoming weeks which suggest it should weaken. There is also little signal shown in the filtered OLR anomaly over Lesser Antilles.
- Very little to no sea level pressure anomalies in the lesser Antilles region. Very low to no low-mid level divergence anomalies with moderate convergence anomalies in the upper levels near the central and southern lesser Antilles.
- Models suggest a moderate probability for precipitation to be below the 33rd percentile over for the central to southern portions of the lesser Antilles.

Extreme Precipitation Outlooks



- Upper level convergence can slightly inhibit precipitation amounts in the lesser Antilles, particularly in the central to southern portion of the area.
- Model Forecasts also suggest this potential for dryness in the area.