

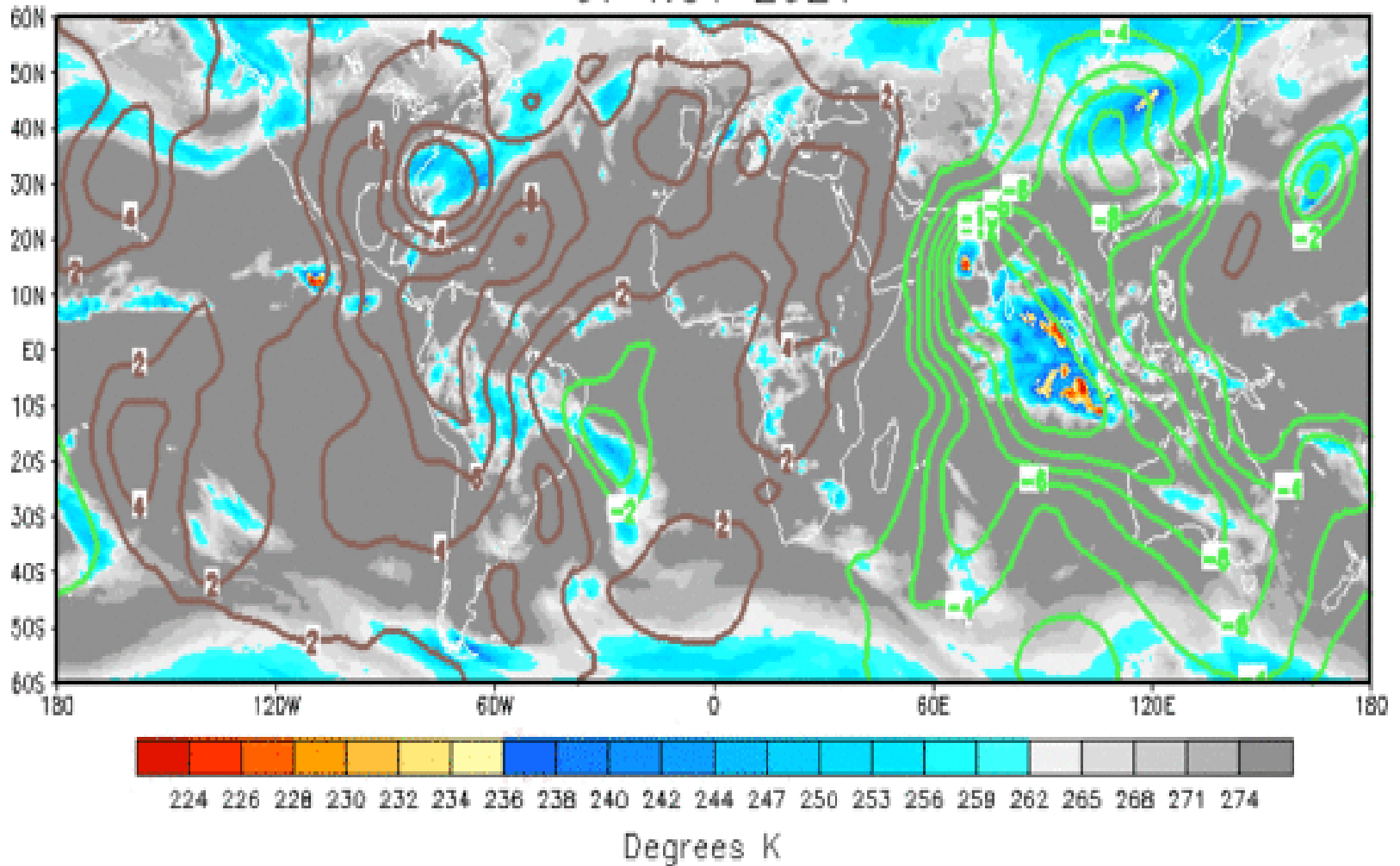
Second WMO RCC-Washington International Training Workshop

Real-time week-2 extreme precipitation outlook

8 – 10 November 2021

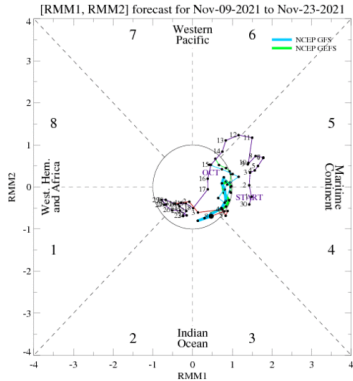
200-hPa Velocity Potential Anomaly

07 NOV 2021

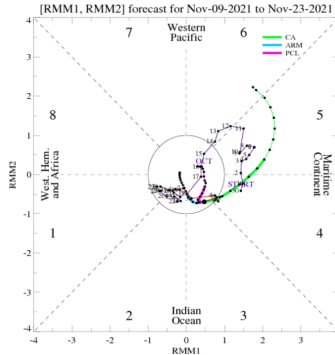


Wheeler-Hendon Index – Forecasts

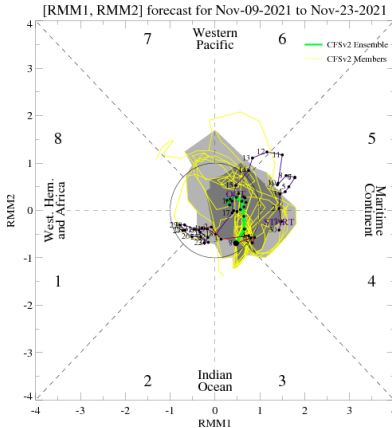
GEFS



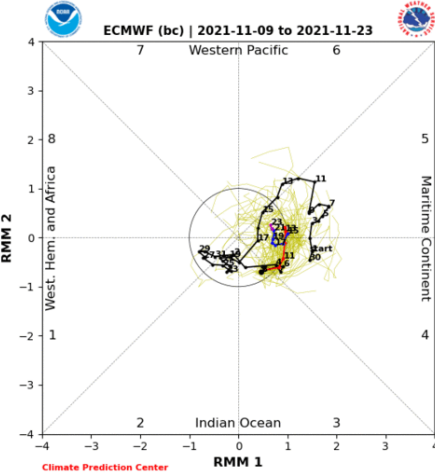
Statistical



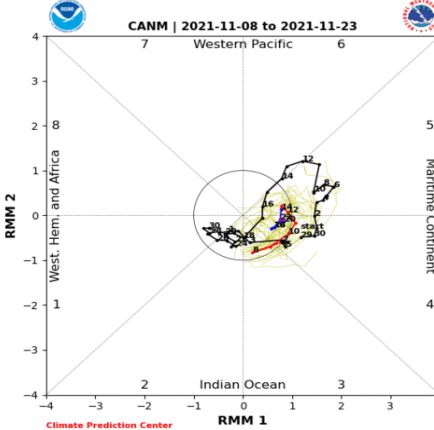
CFSv2



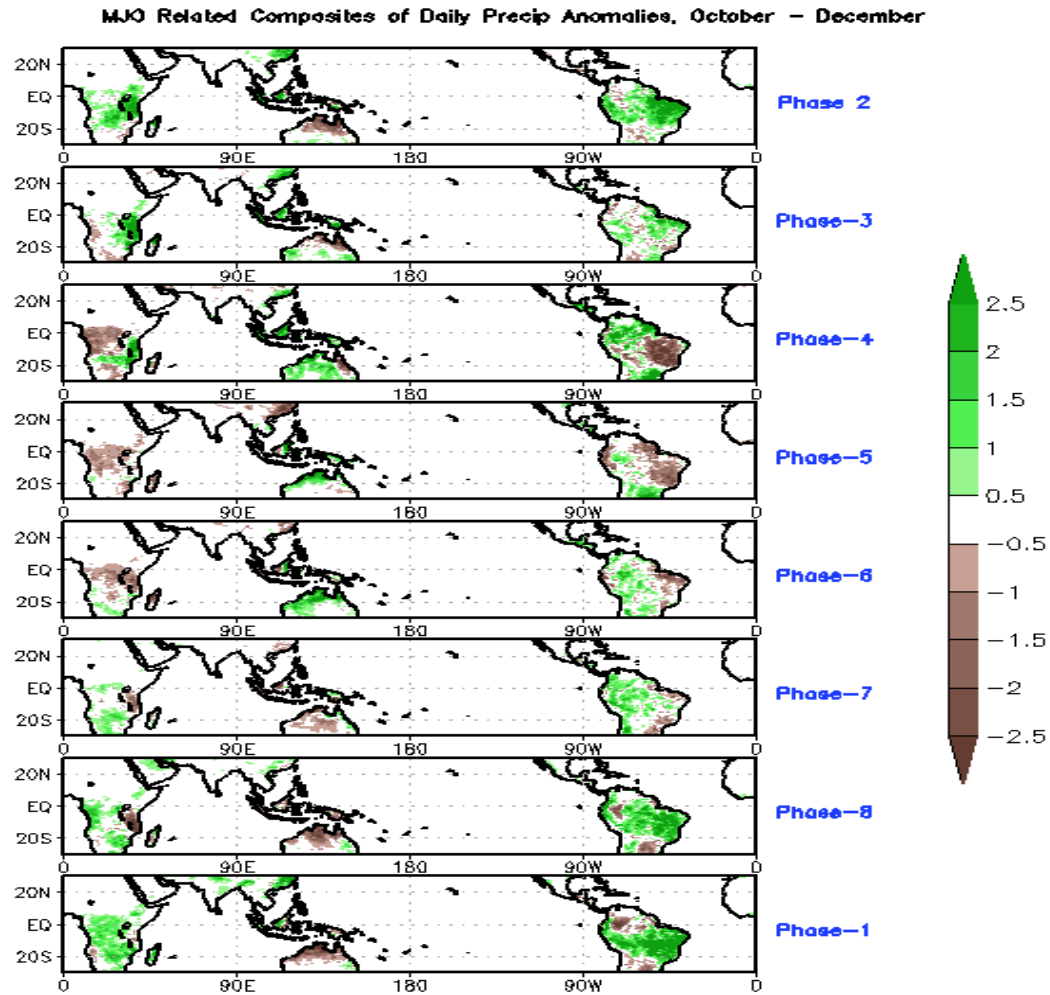
ECMWF



CMET



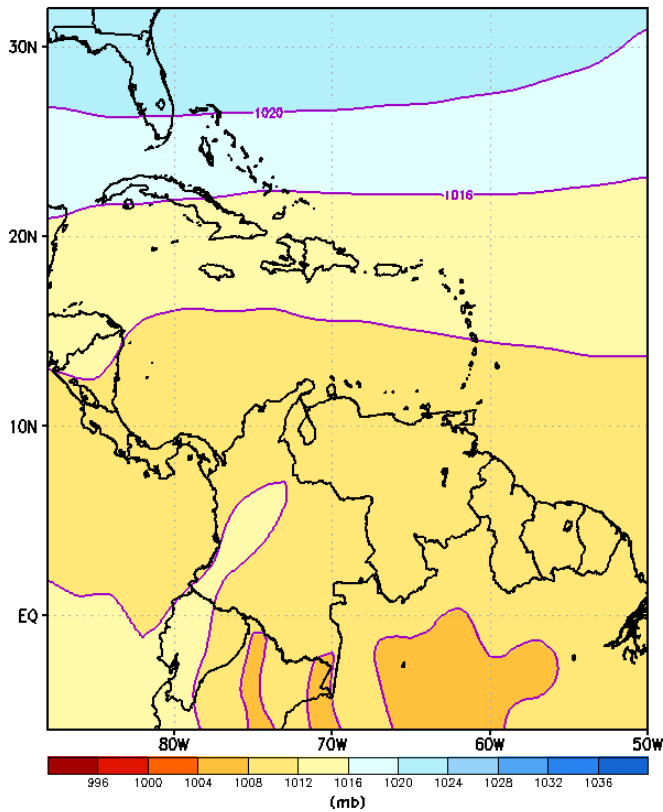
Evolution of MJO-related Anomalies



Mean Sea Level Pressure

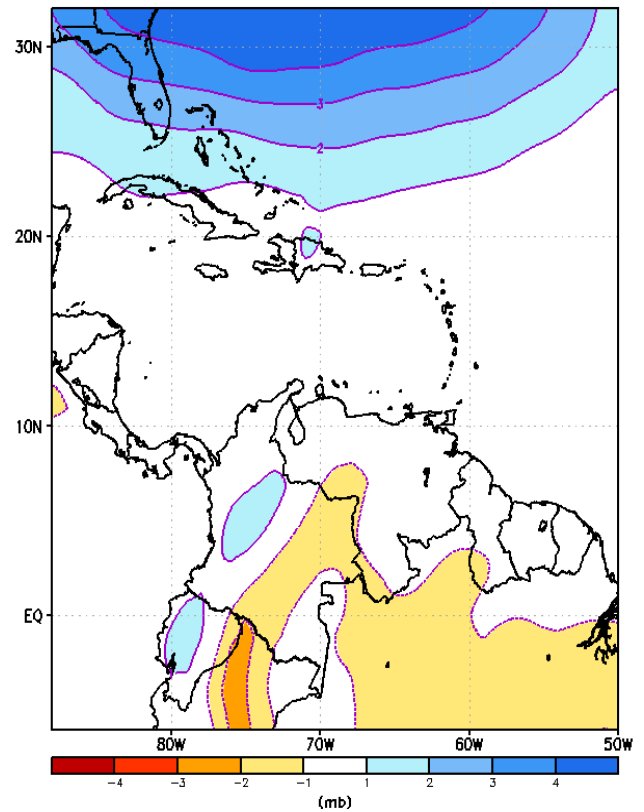
Total

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



Anomaly

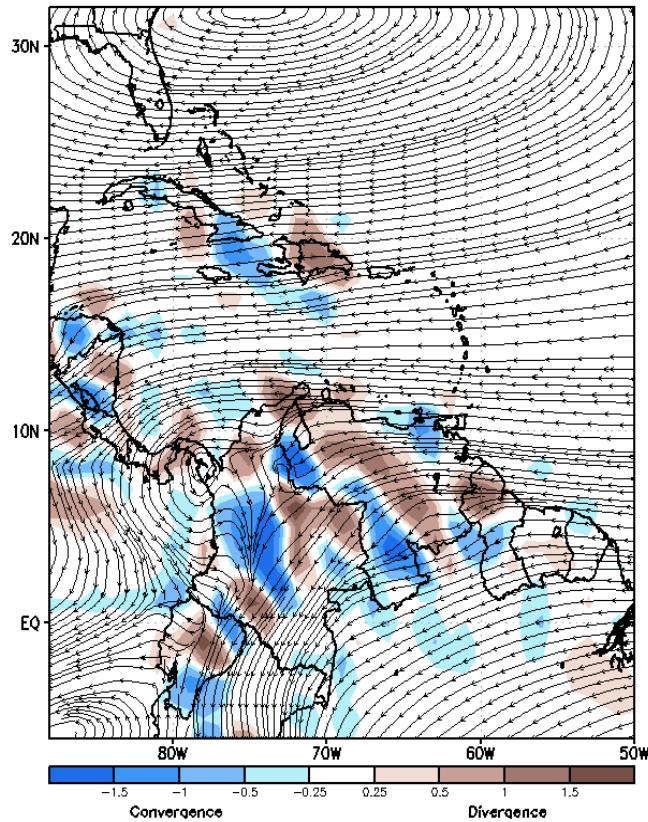
GEFS Week-2 Mean Sea Level Pressure Anomaly
Valid: 20211117 - 20211123



850-hPa Wind

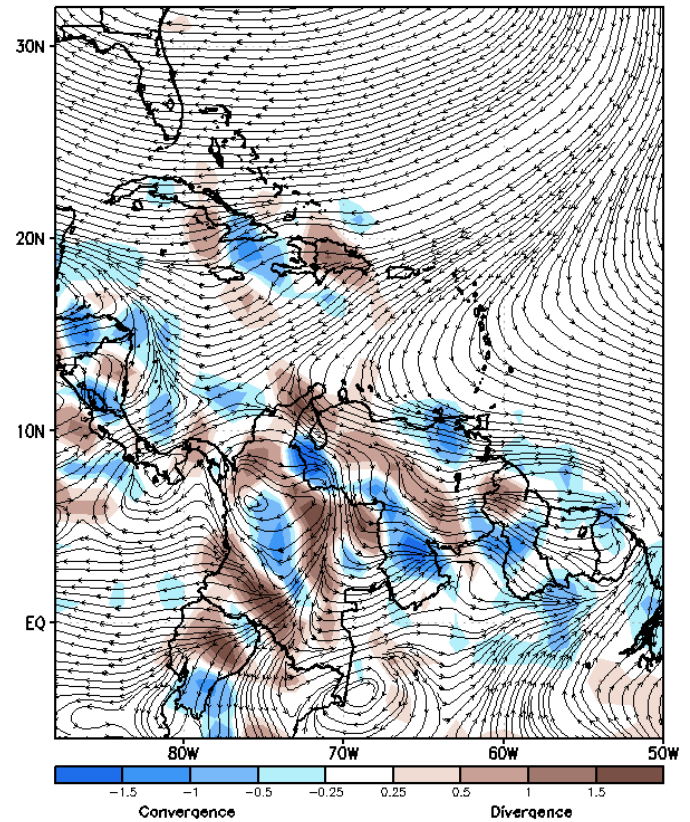
Total

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



Anomaly

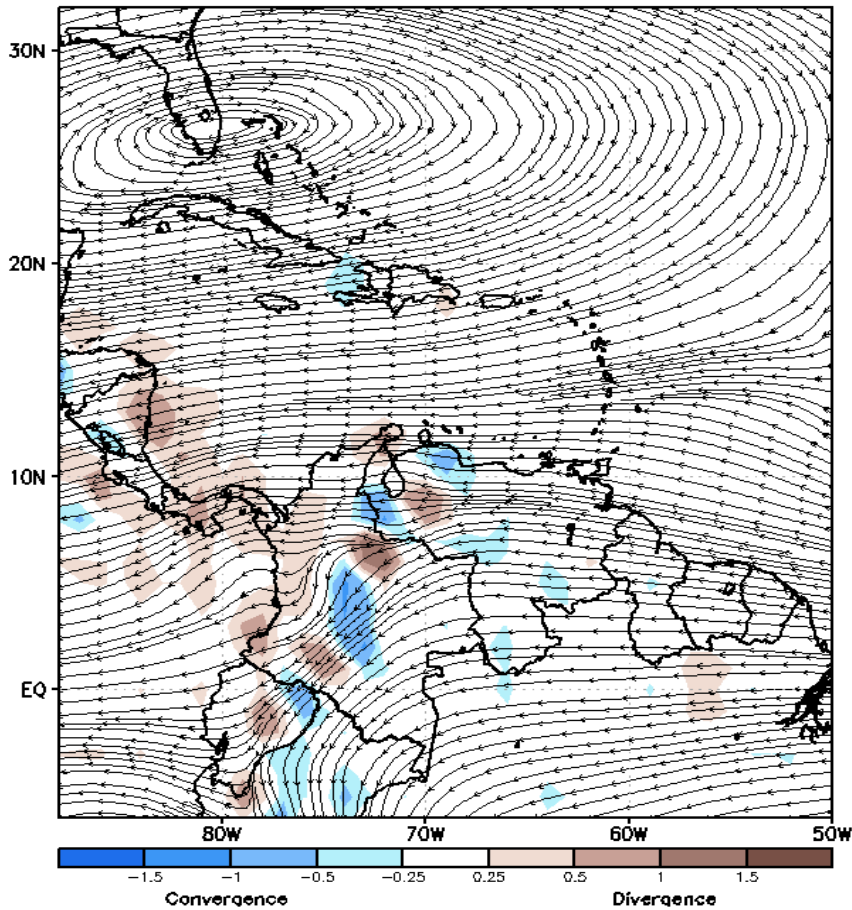
GEFS Week-2 850-hPa Divergence and Wind Anomaly
Valid: 20211117 - 20211123



700-hPa Wind

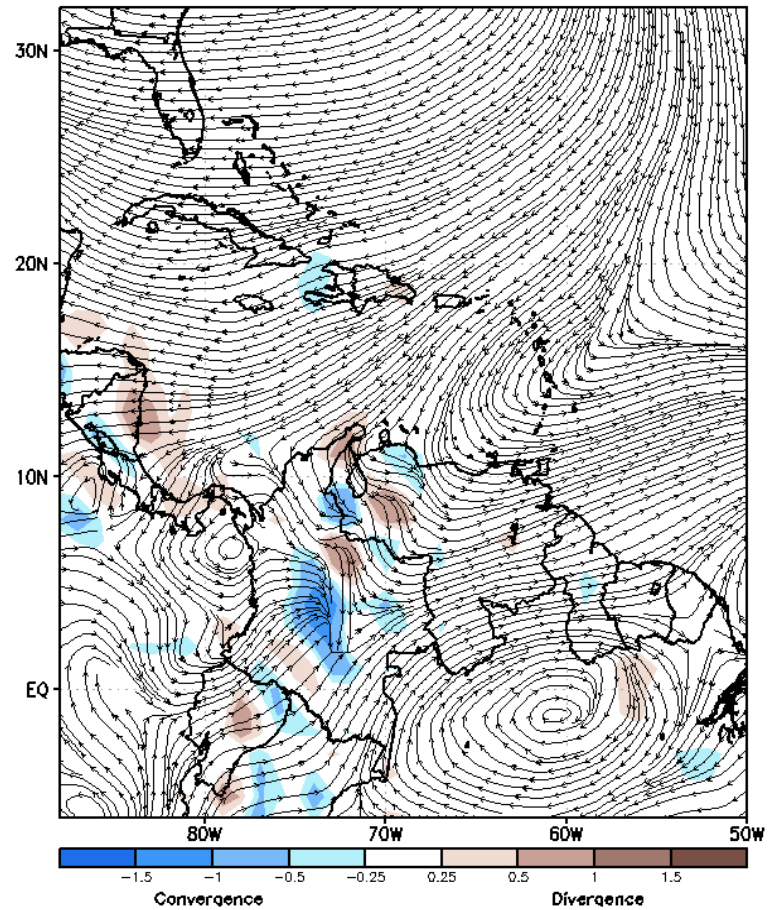
Total

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



Anomaly

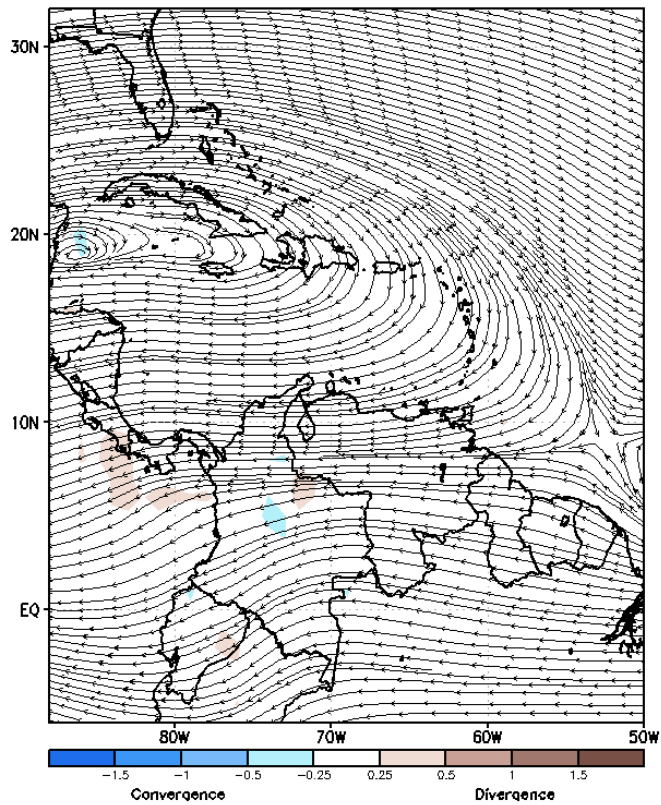
GEFS Week-2 700-hPa Divergence and Wind Anomaly
Valid: 20211117 - 20211123



500-hPa Wind

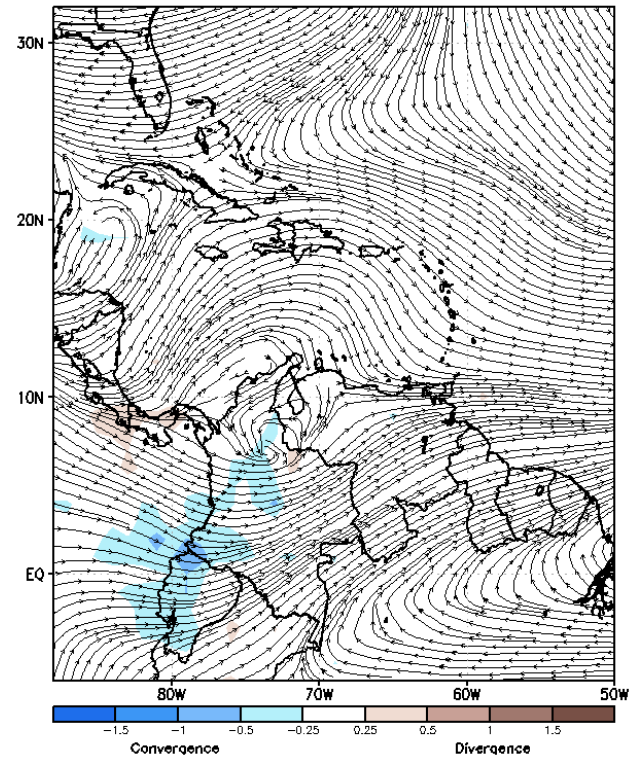
Total

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



Anomaly

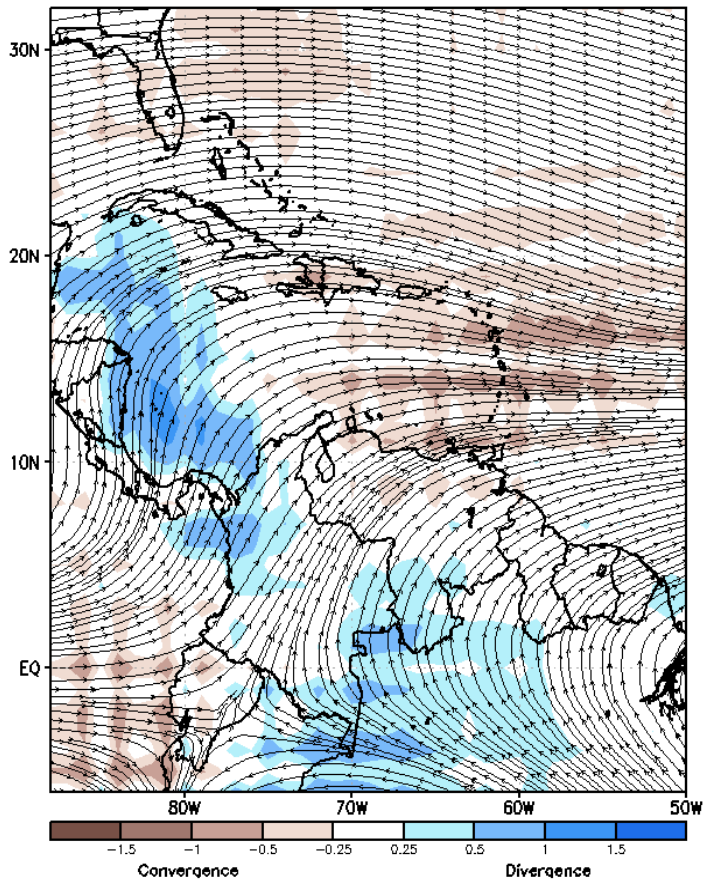
GEFS Week-2 500-hPa Divergence and Wind Anomaly
Valid: 20211117 - 20211123



200-hPa Wind

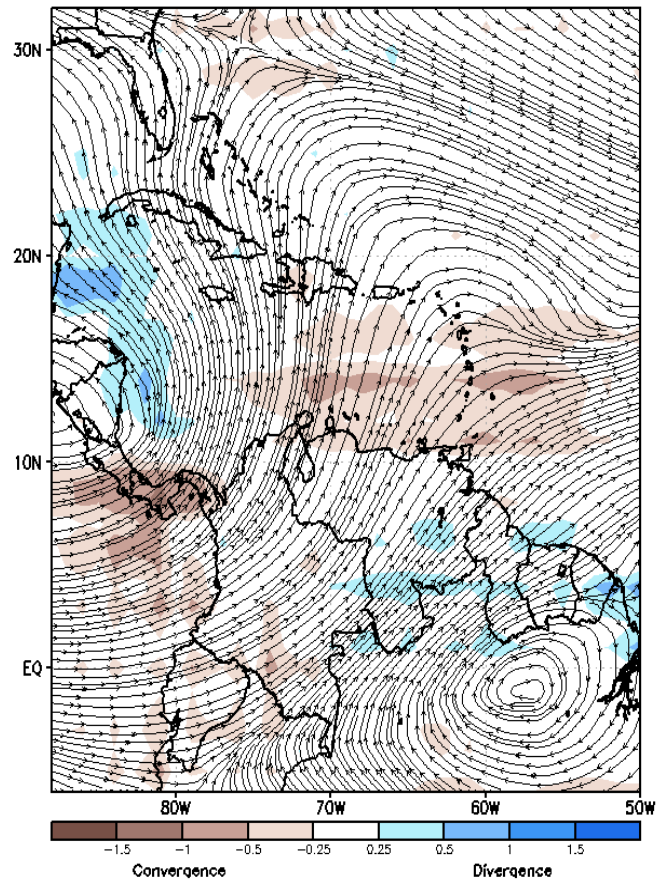
Total

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



Anomaly

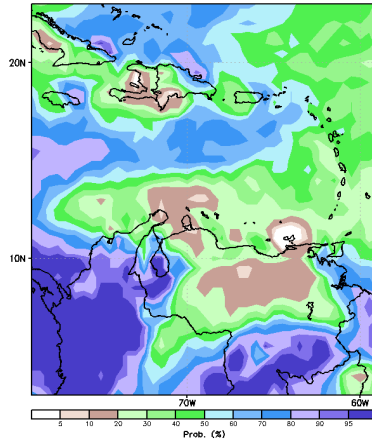
GEFS Week-2 200-hPa Divergence and Wind Anomaly
Valid: 20211117 - 20211123



Precipitation Exceedance Probability

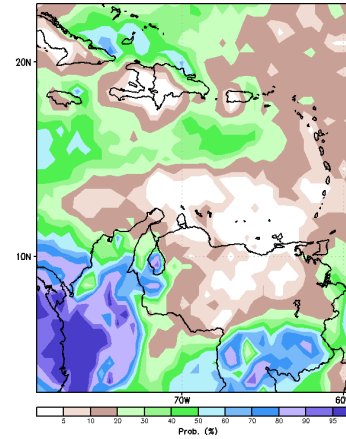
$\geq 25\text{mm}$

GEFS Week-2 Exceedance Prob. $\geq 25\text{mm}$
Valid: 20211117 - 20211123



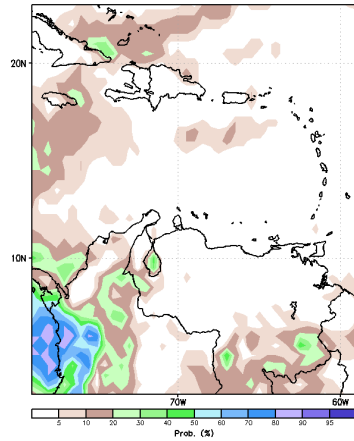
$\geq 50\text{mm}$

GEFS Week-2 Exceedance Prob. $\geq 50\text{mm}$
Valid: 20211117 - 20211123



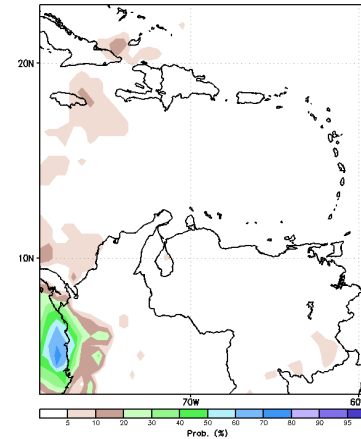
$\geq 100\text{mm}$

GEFS Week-2 Exceedance Prob. $\geq 100\text{mm}$
Valid: 20211117 - 20211123



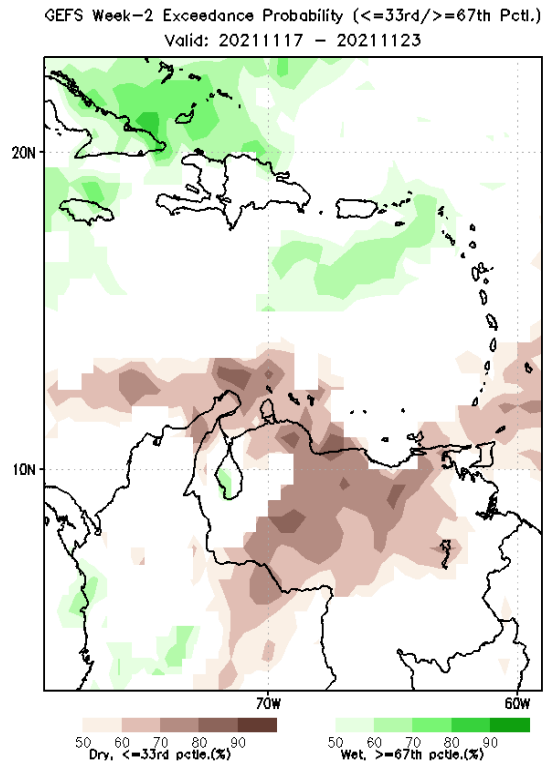
$\geq 150\text{mm}$

GEFS Week-2 Exceedance Prob. $\geq 150\text{mm}$
Valid: 20211117 - 20211123

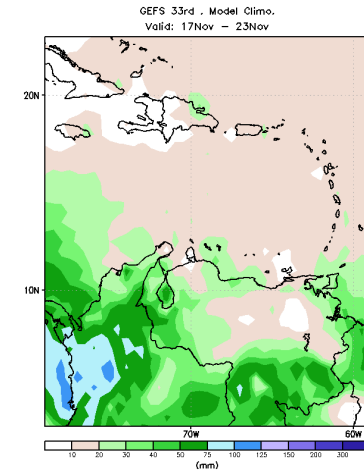


Precipitation Exceedance Probability ($\leq 33^{\text{rd}}$ & $\geq 67^{\text{th}}$ percentiles)

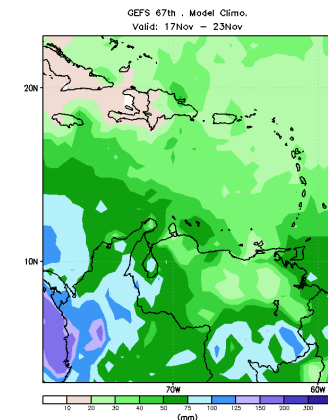
$\leq 33^{\text{rd}}$ & $\geq 67^{\text{th}}$ percentiles



33^{rd} percentile climo



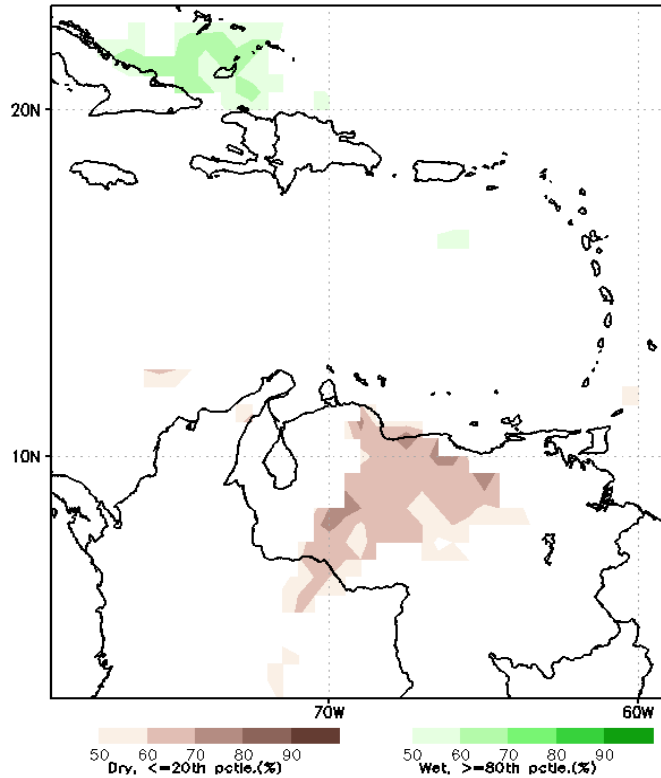
67^{th} percentile climo



Precipitation Exceedance Probability ($\leq 20^{\text{th}}$ & $\geq 80^{\text{th}}$ percentiles)

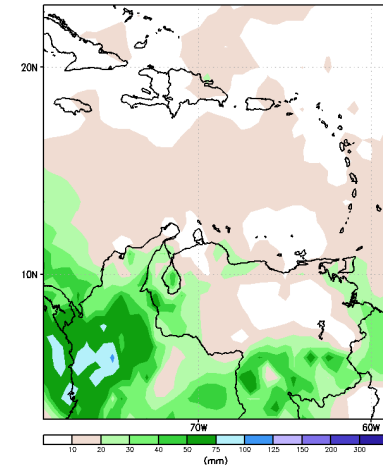
$\leq 20^{\text{th}}$ & $\geq 80^{\text{th}}$ percentiles

GEFS Week-2 Exceedance Probability ($\leq 20^{\text{th}}$ / $\geq 80^{\text{th}}$ Pctl.)
Valid: 20211117 - 20211123



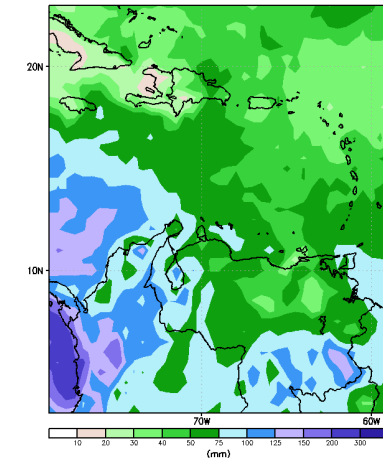
20th percentile climo

GEFS 20th . Model Climo.
Valid: 17Nov - 23Nov



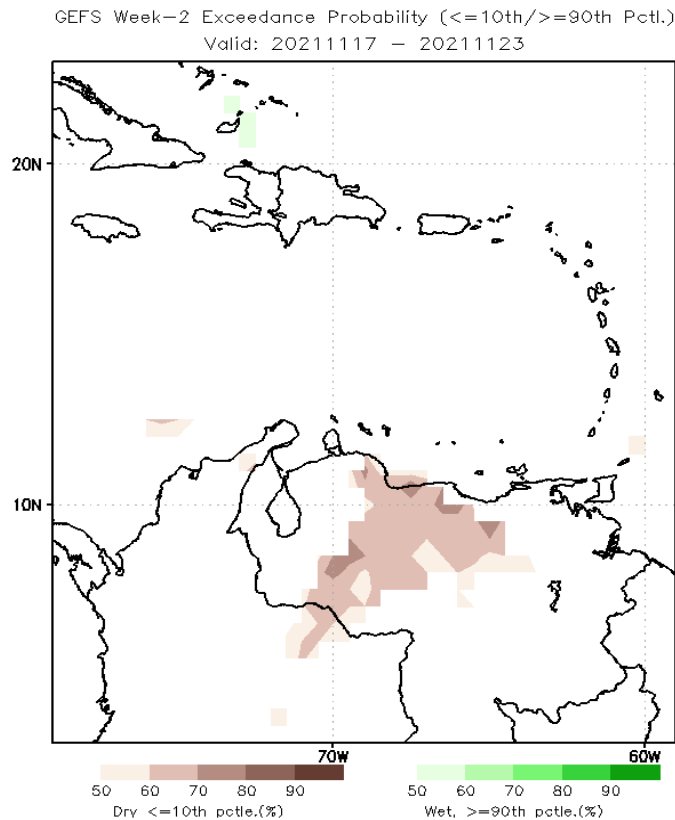
80th percentile climo

GEFS 80th . Model Climo.
Valid: 17Nov - 23Nov

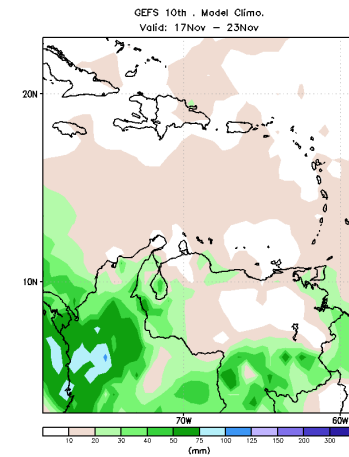


Precipitation Exceedance Probability ($\leq 10^{\text{th}}$ & $\geq 90^{\text{th}}$ percentiles)

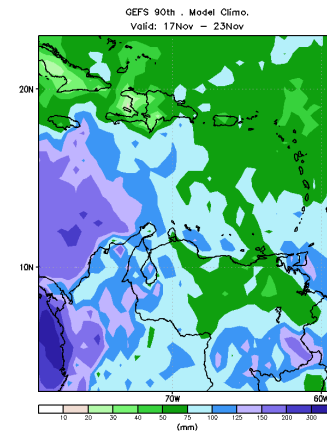
$\leq 10^{\text{th}}$ & $\geq 90^{\text{th}}$ percentiles



10th percentile climo



90th percentile climo



Summary

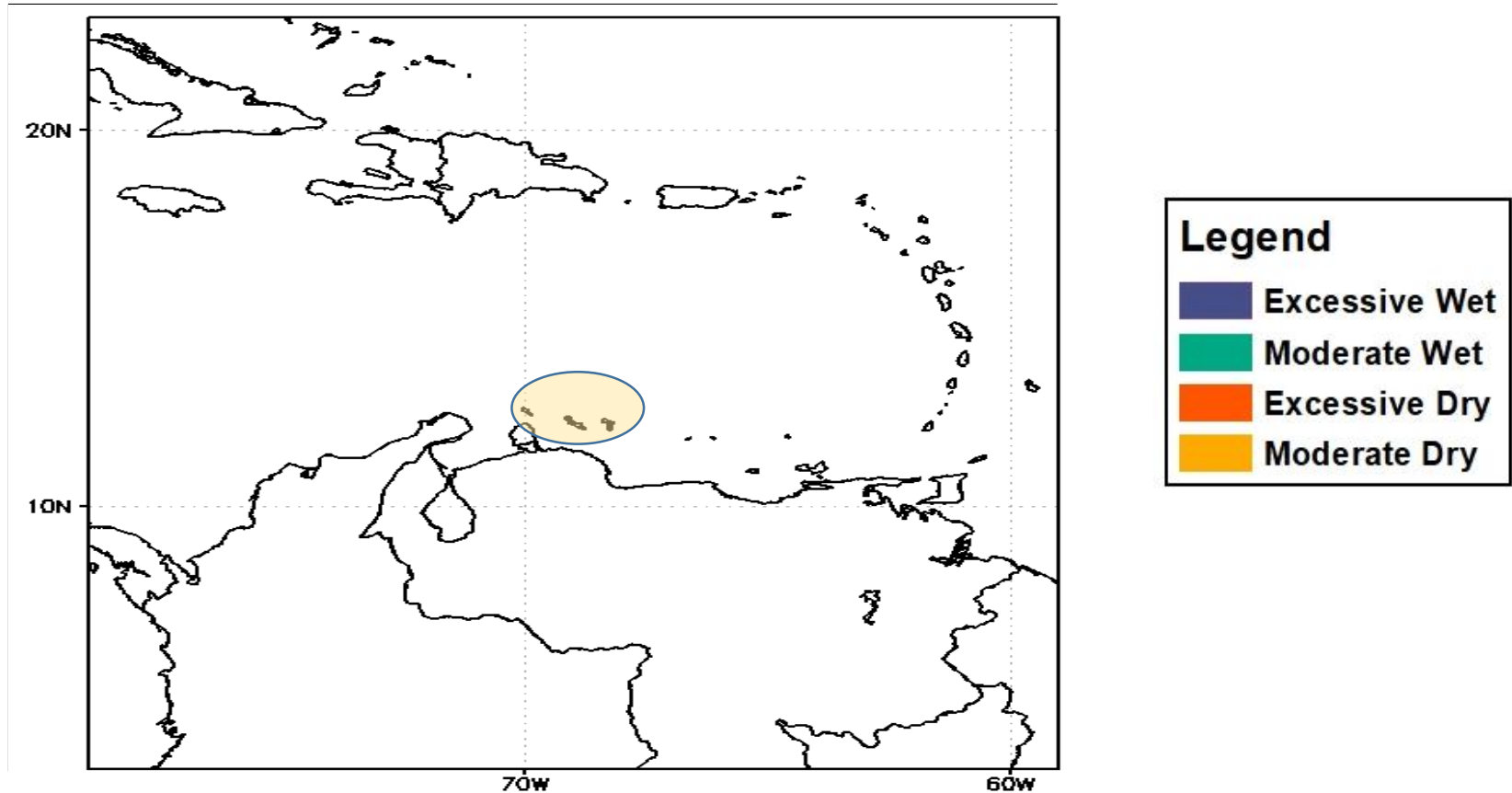
MJO not active in the region of Curaçao.

The region will not be influenced by this activity.

At 200 hPa and 850 hPa is observed: convergence upper level and divergence lower level (weak). In the area it will actually disrupt cloud development.

The amount of precipitation $\geq 25\text{mm}$ will be around 20 ~ 30 %

Extreme Precipitation Outlooks



Moderate to dry. There is no cyclonic circulation in the area. Model forecast suggest an increased chance for moderate dryness over the area Curacao. Few local shower activity possible.