

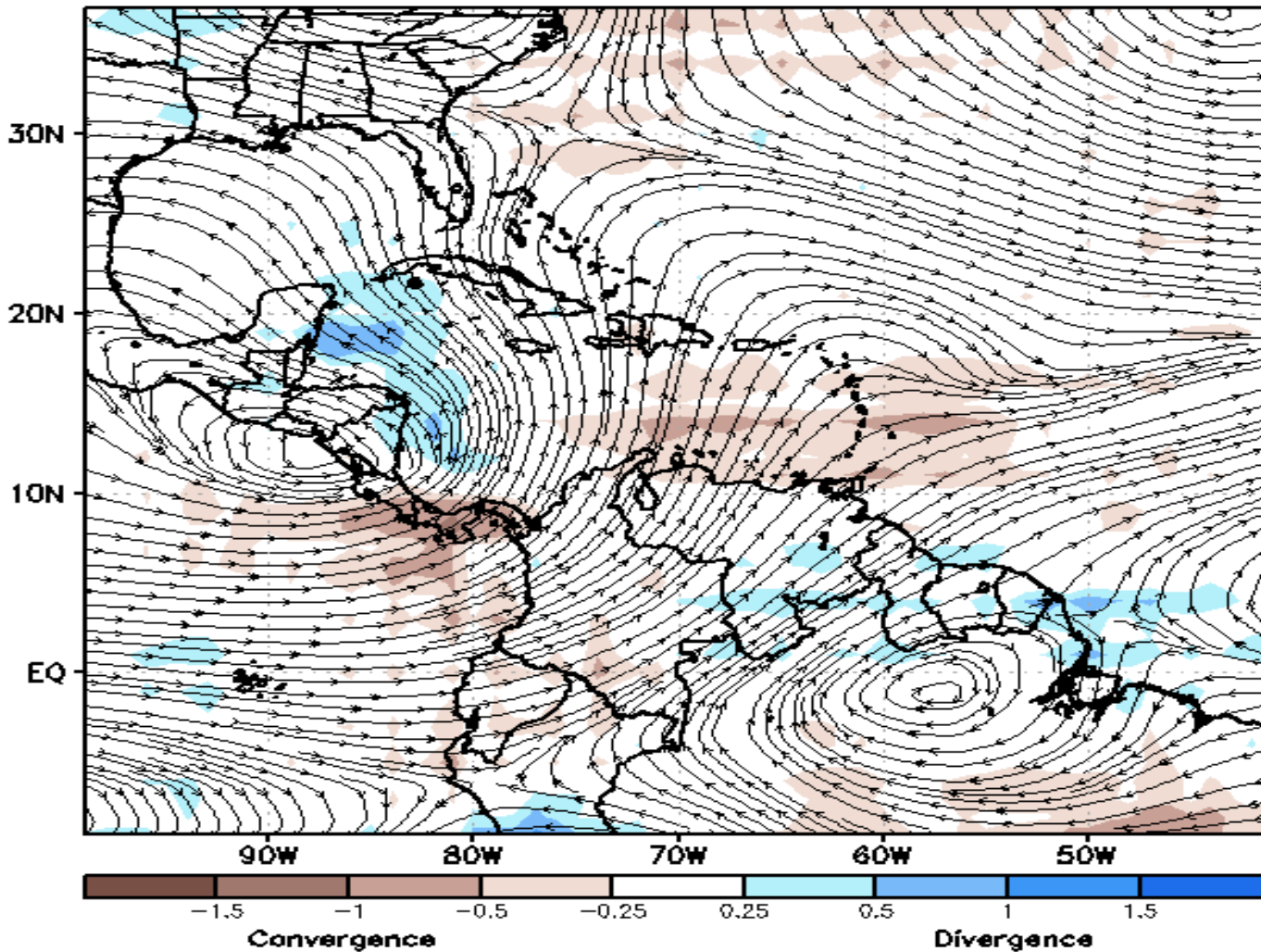
Second WMO RCC-Washington International Training Workshop

Real-time week-2 extreme precipitation outlook

8 – 10 November 2021

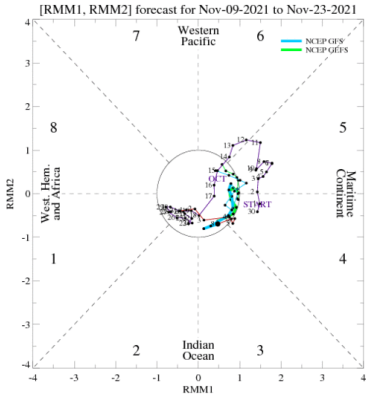
200-hPa Velocity Potential Anomaly

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

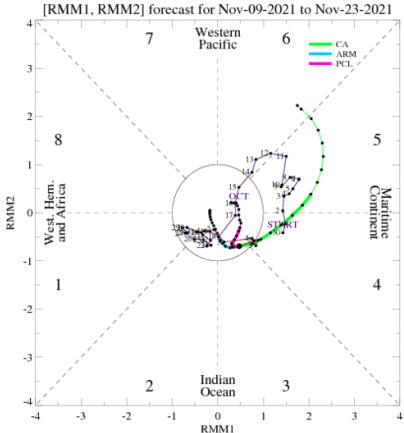


Wheeler-Hendon Index – Forecasts

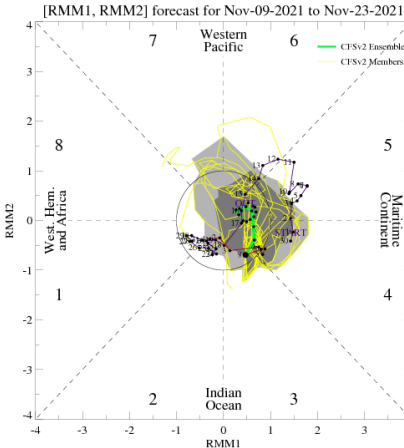
GEFS



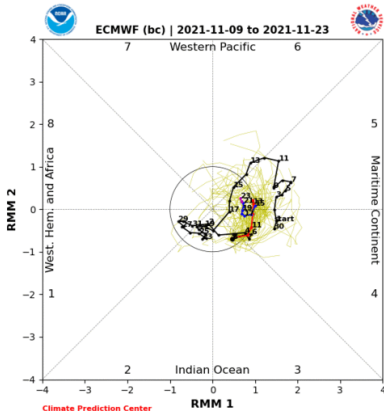
Statistical



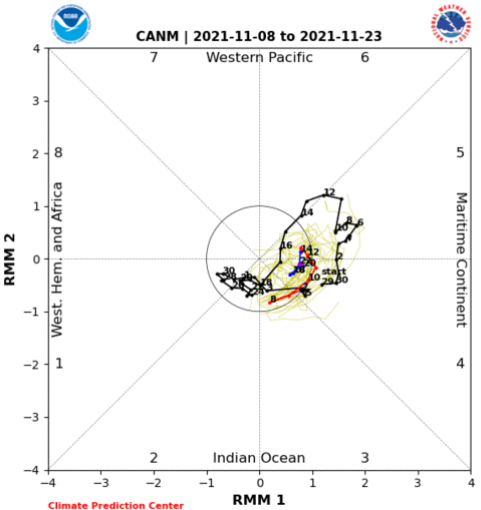
CFSv2



ECMWF



ECC

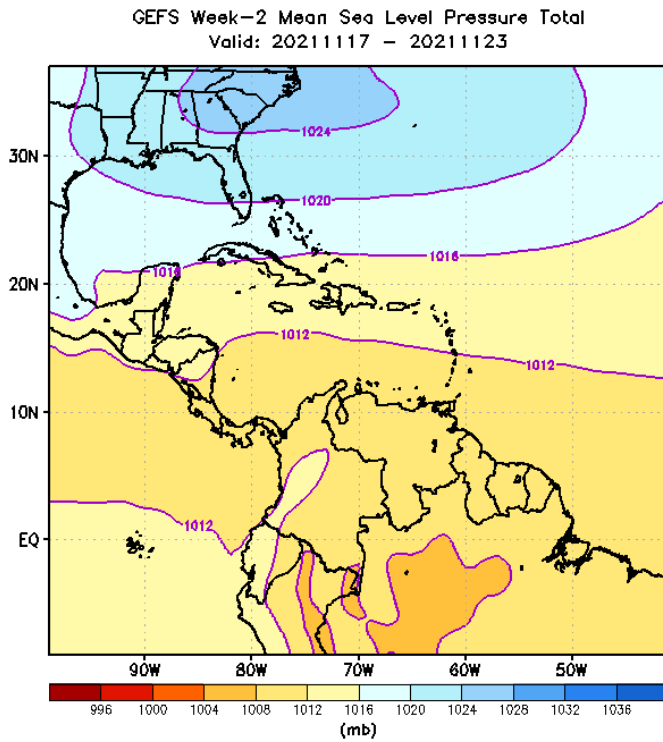


Evolution of MJO-related Anomalies

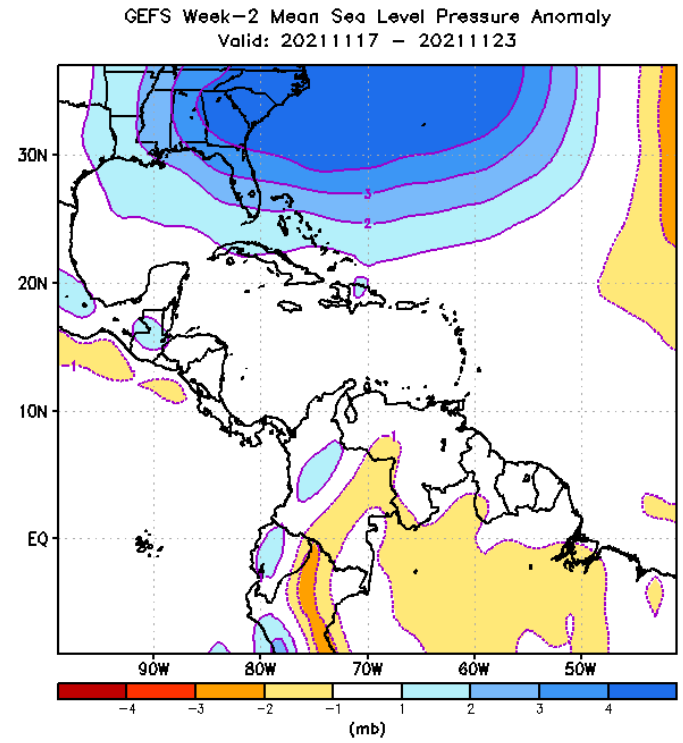
The various models depict a great deal of uncertainty in the MJO forecast. That is some model forecast indicates a possibility of a high amplitude event reaching the western Pacific. However the confidence level remains low since the SST Analysis over the eastern Pacific seem to be trending towards La Niña type conditions.

Mean Sea Level Pressure

Total



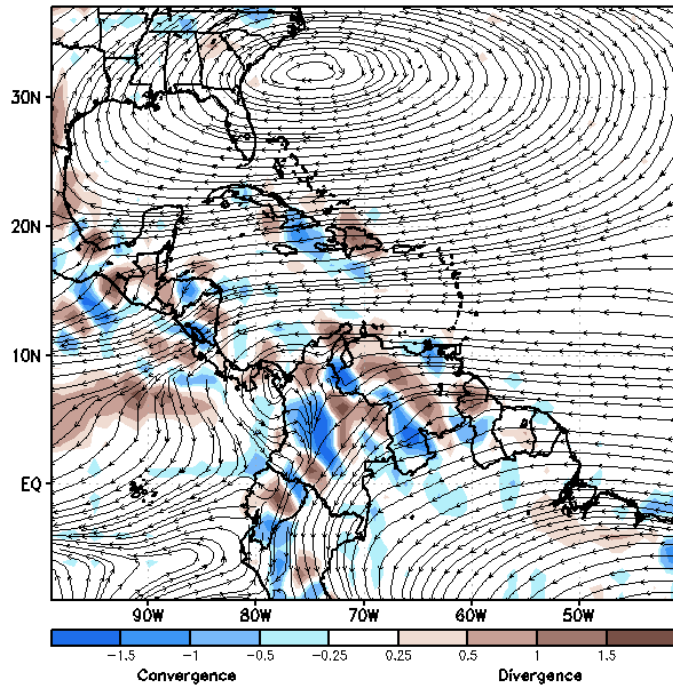
Anomaly



850-hPa Wind

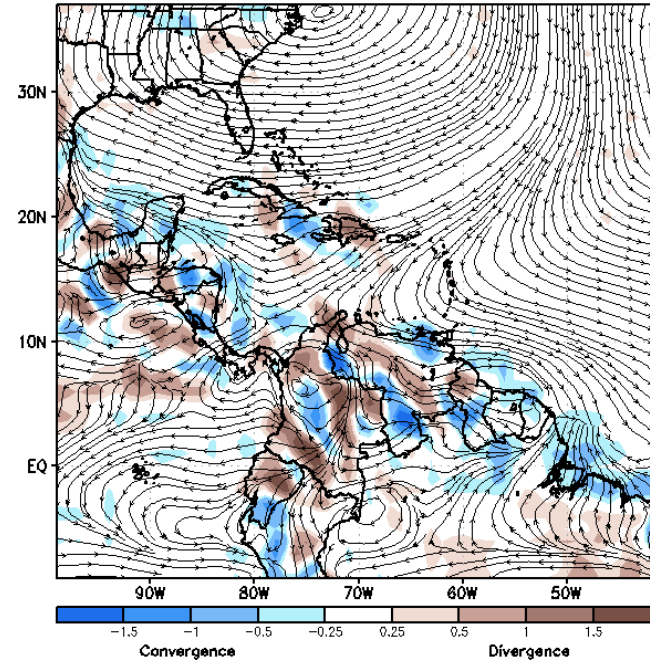
Total

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



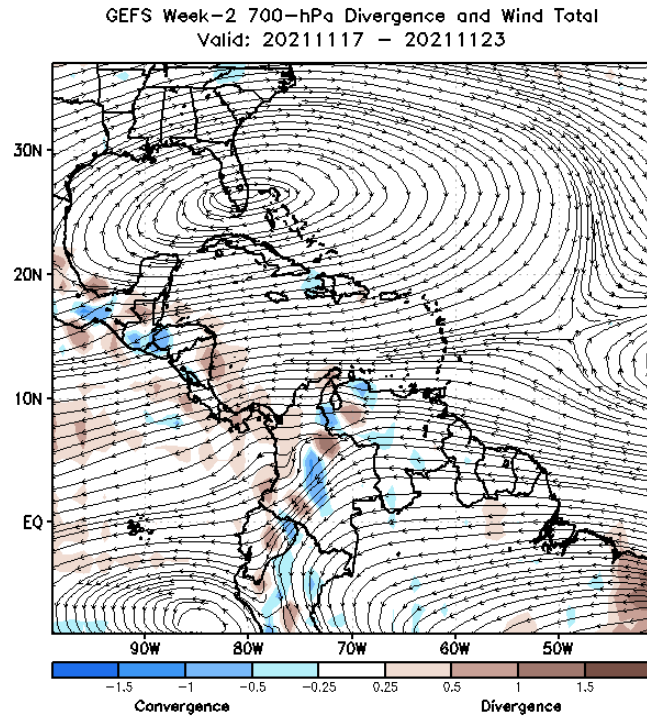
Anomaly

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

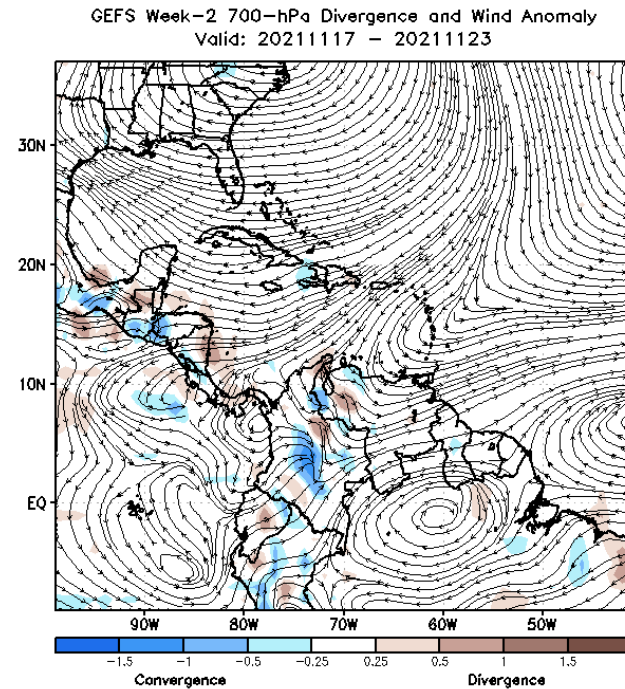


700-hPa Wind

Total

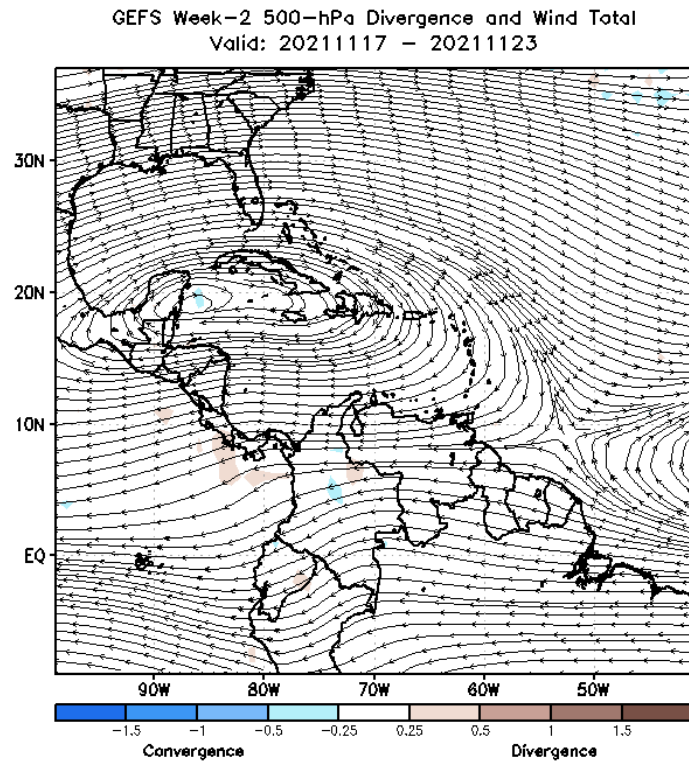


Anomaly



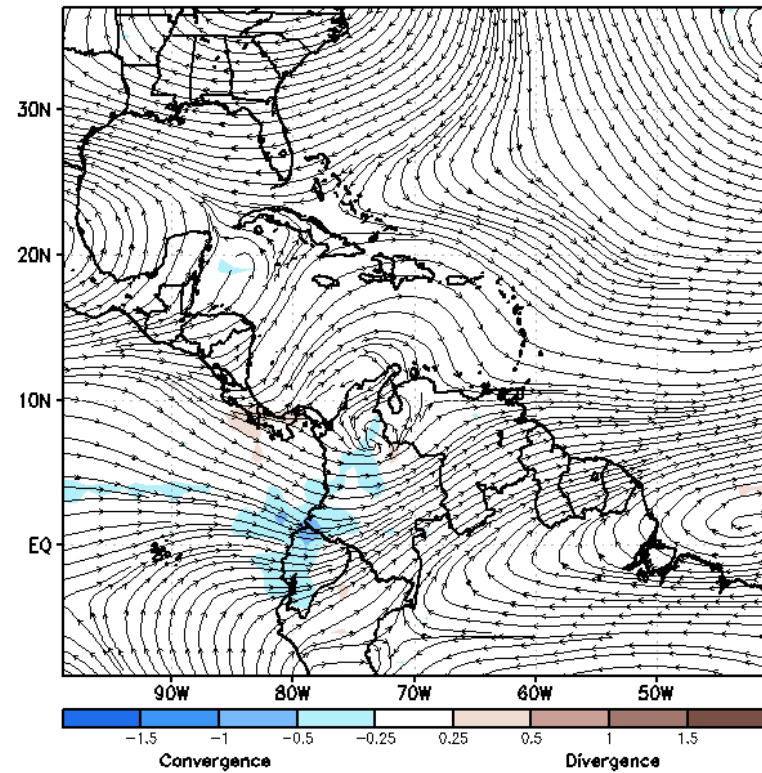
500-hPa Wind

Total



Anomaly

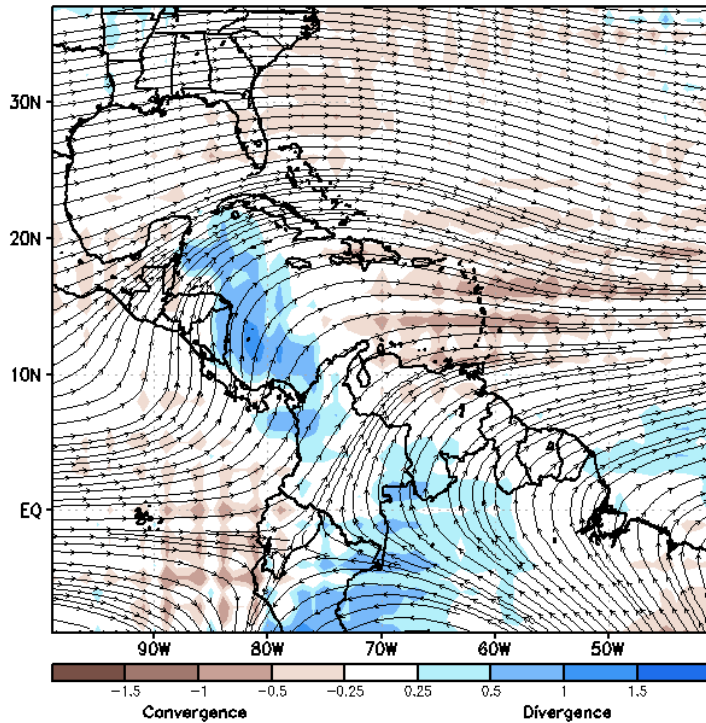
GEFS Week-2 500-hPa Divergence and Wind Anomaly
Valid: 20211117 - 20211123



200-hPa Wind

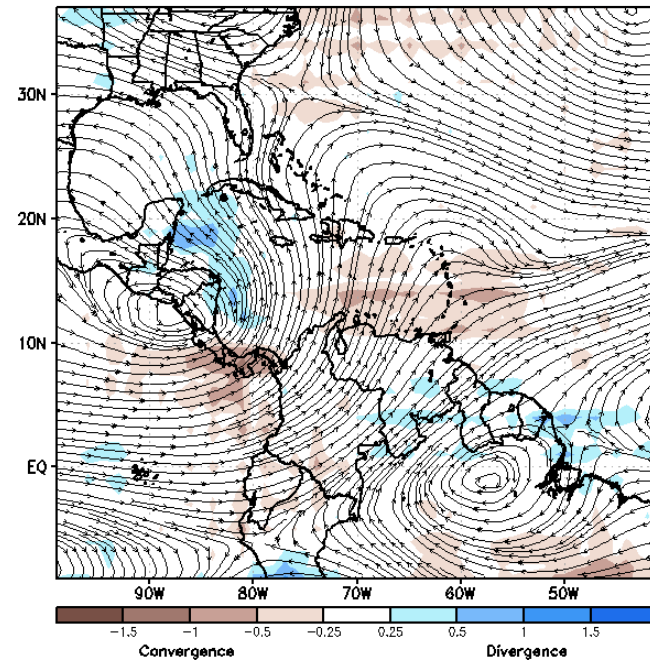
Total

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



Anomaly

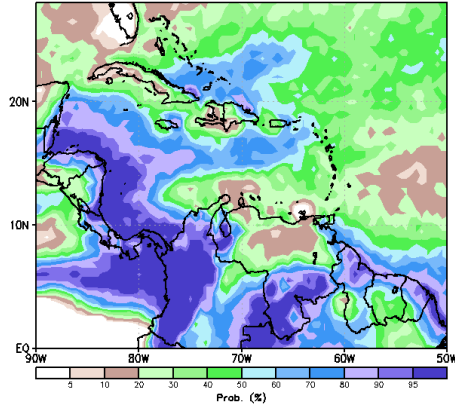
GEFS Week-2 200-hPa Divergence and Wind Anomaly
Valid: 20211117 - 20211123



Precipitation Exceedance Probability

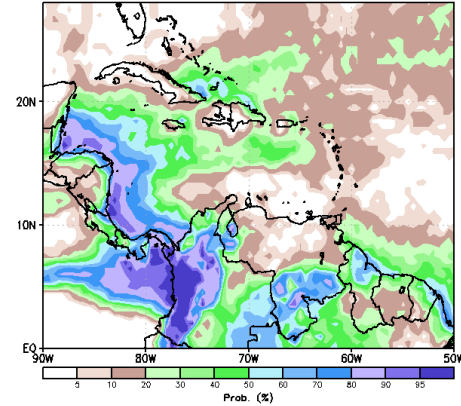
$\geq 25\text{mm}$

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



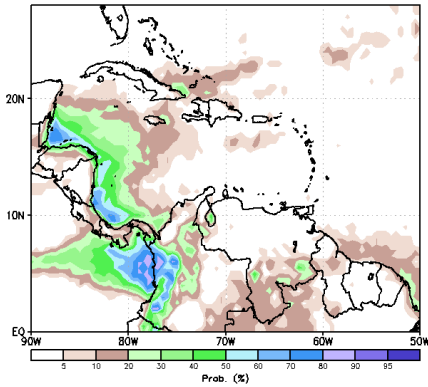
$\geq 50\text{mm}$

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



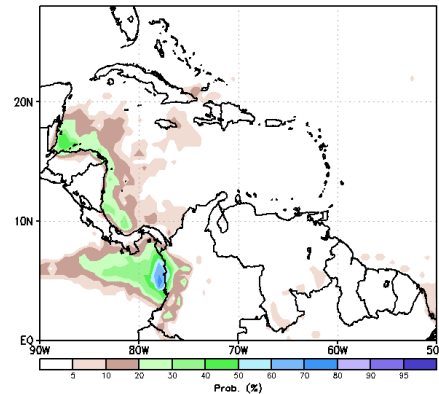
$\geq 100\text{mm}$

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



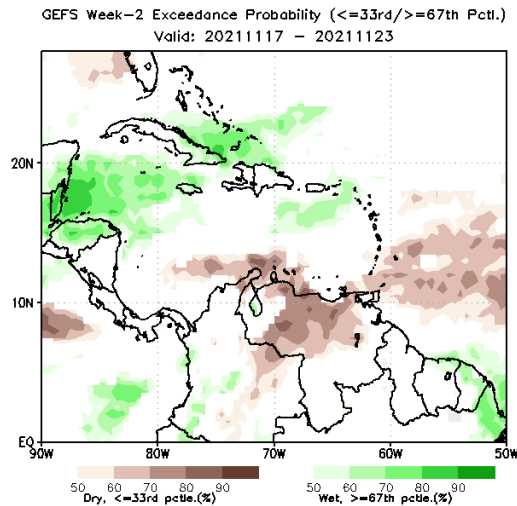
$\geq 150\text{mm}$

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

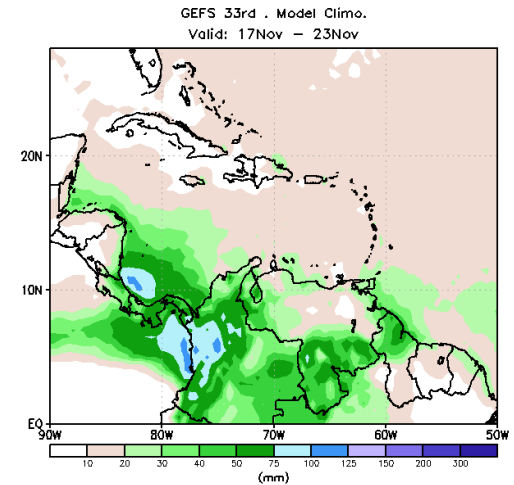


Precipitation Exceedance Probability ($\leq 33^{\text{rd}}$ & $\geq 67^{\text{th}}$ percentiles)

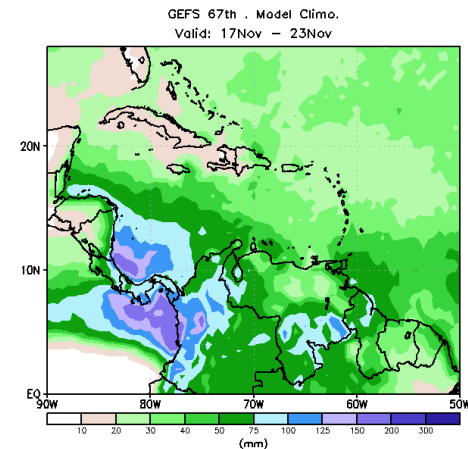
$\leq 33^{\text{rd}}$ & $\geq 67^{\text{th}}$ percentiles



33^{rd} percentile climo

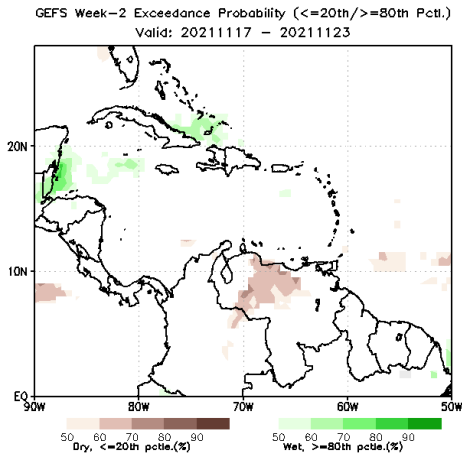


67^{th} percentile climo

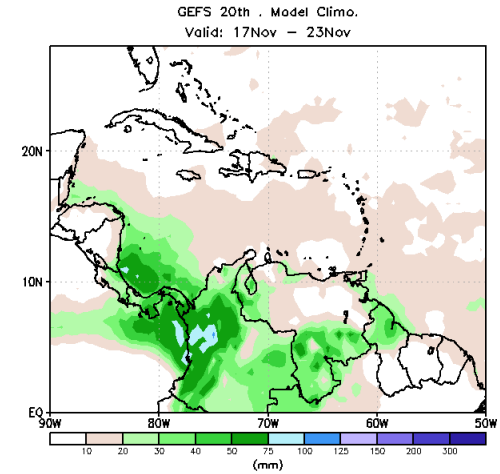


Precipitation Exceedance Probability ($\leq 20^{\text{th}}$ & $\geq 80^{\text{th}}$ percentiles)

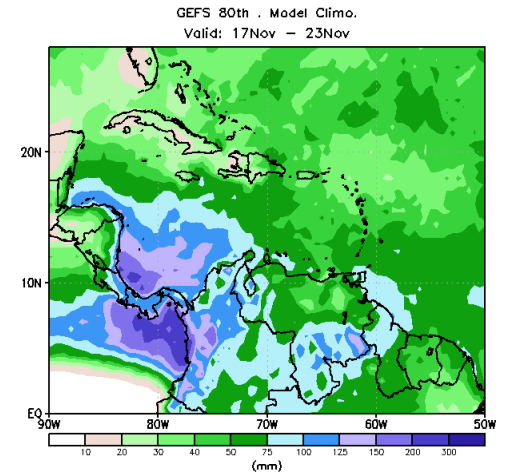
$\leq 20^{\text{th}}$ & $\geq 80^{\text{th}}$ percentiles



20th percentile climo

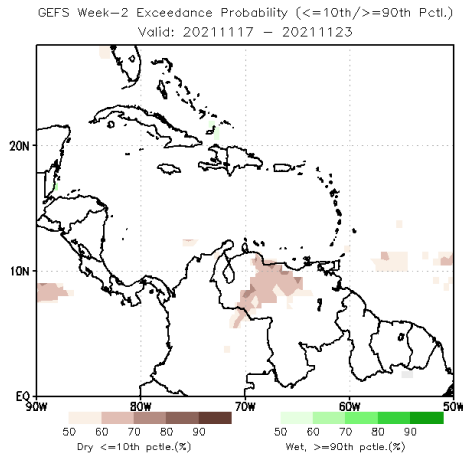


80th percentile climo

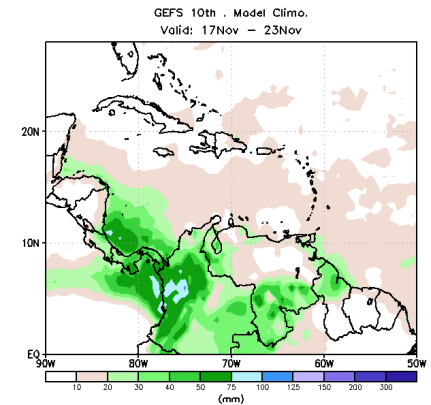


Precipitation Exceedance Probability ($\leq 10^{\text{th}}$ & $\geq 90^{\text{th}}$ percentiles)

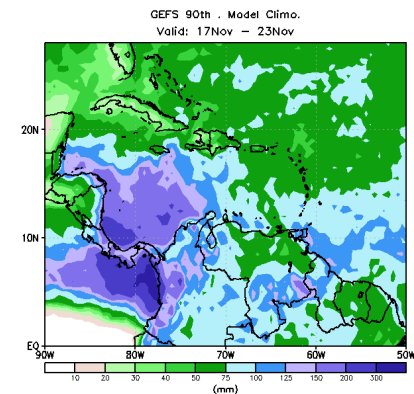
$\leq 10^{\text{th}}$ & $\geq 90^{\text{th}}$ percentiles



10^{th} percentile climo

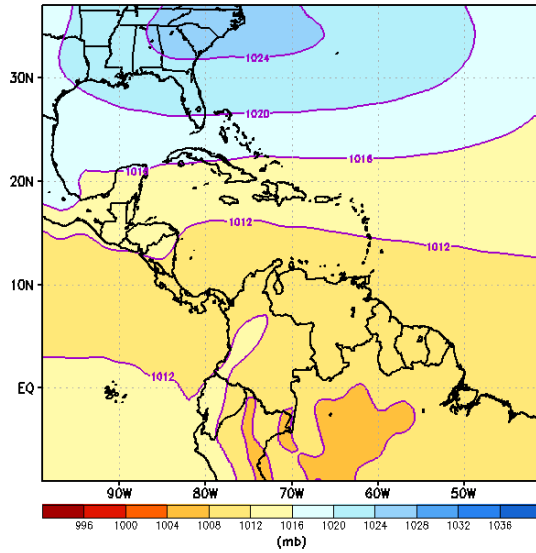


90^{th} percentile climo

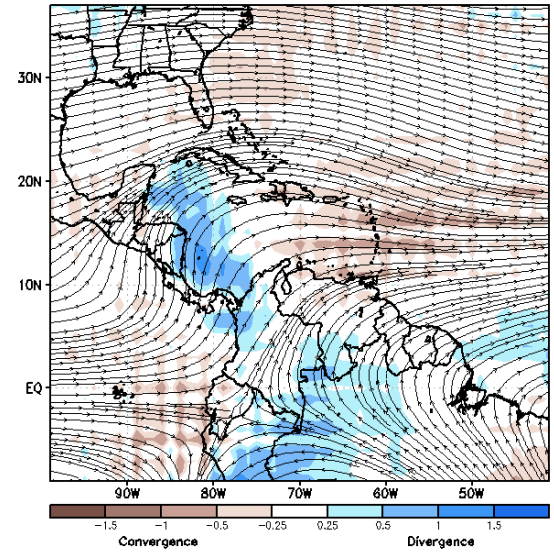


Summary

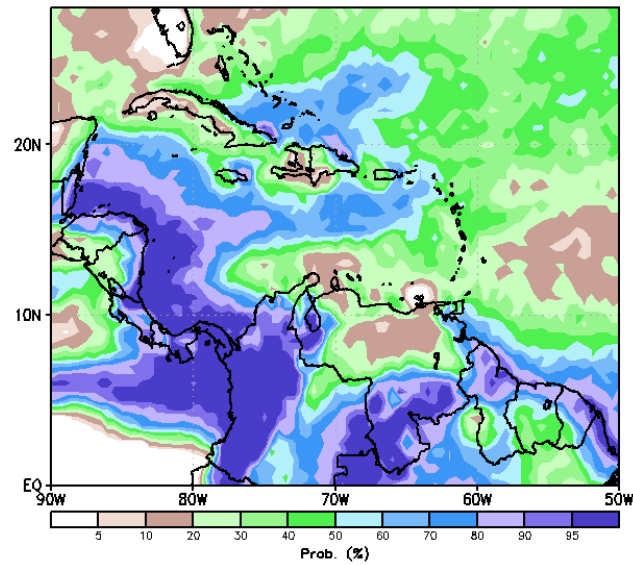
GEFS Week-2 Mean Sea Level Pressure Total
Valid: 20211117 - 20211123



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



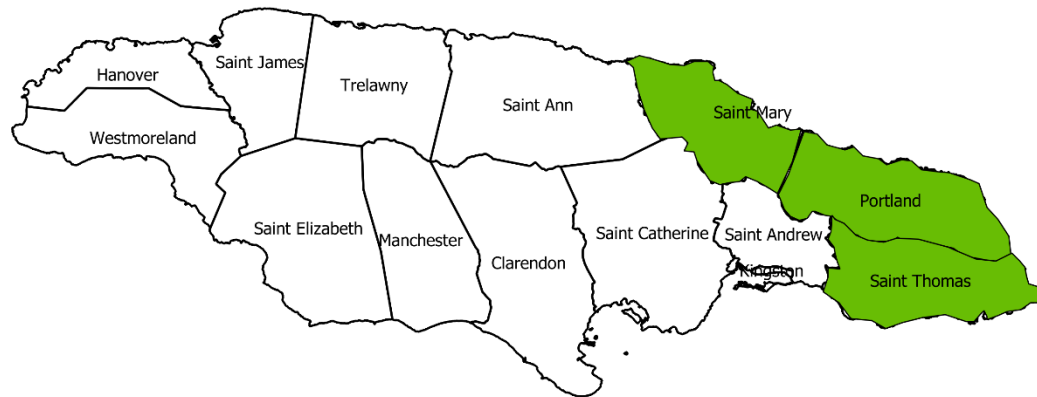
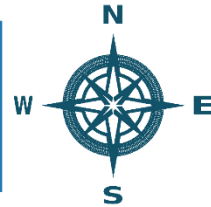
GEFS Week-2 Exceedance Prob. ≥ 25 mm
Valid: 20211117 - 20211123



Extreme Precipitation Outlooks



Week 2 Extreme Precipitation Outlooks



Legend

- Excessive Wet
- Moderate Wet
- Excessive Dry
- Moderate Dry
- No Impact

A weak surface trough southwest of the island coupled with moderate upper level divergence over the region are likely to produce rainfall in excess of 25mm over the eastern end of the island. The GEFS exceedance forecast gives the areas a 70-90% of the eastern end of the island exceeding 25mm in week 2.