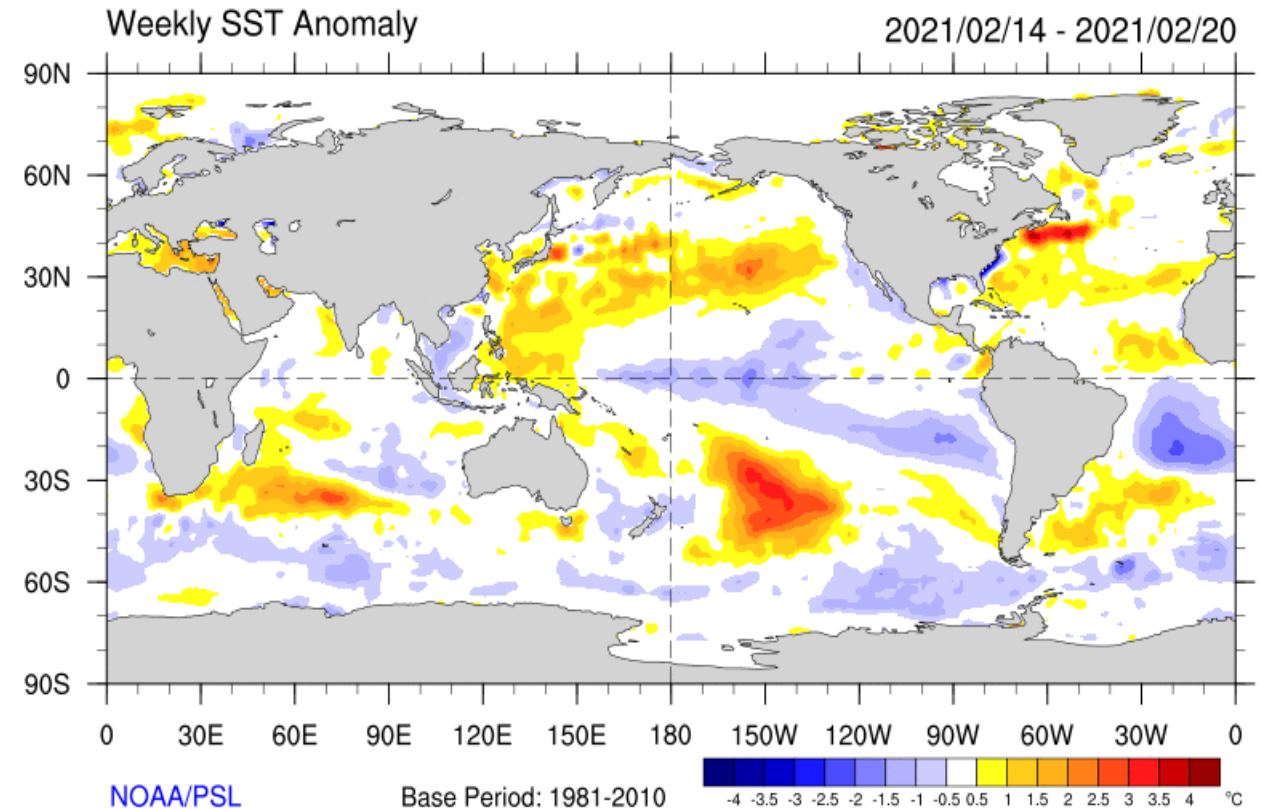
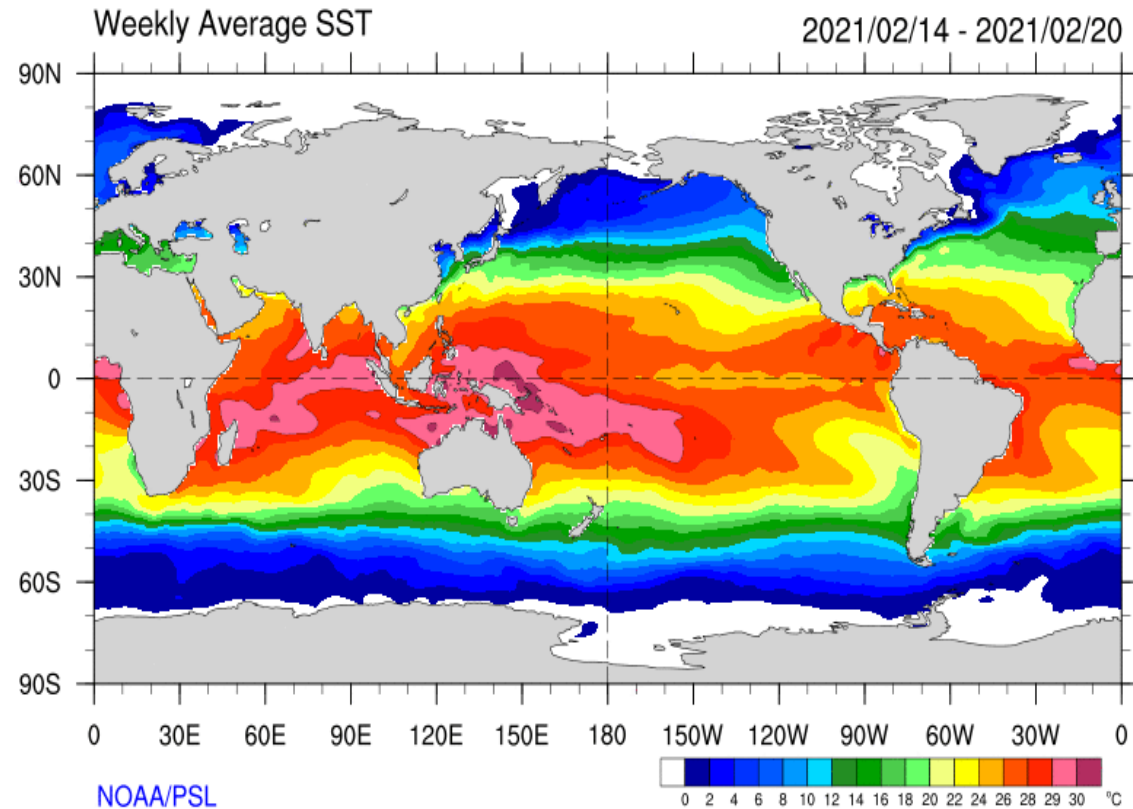


Monthly Regional Focus Group Session

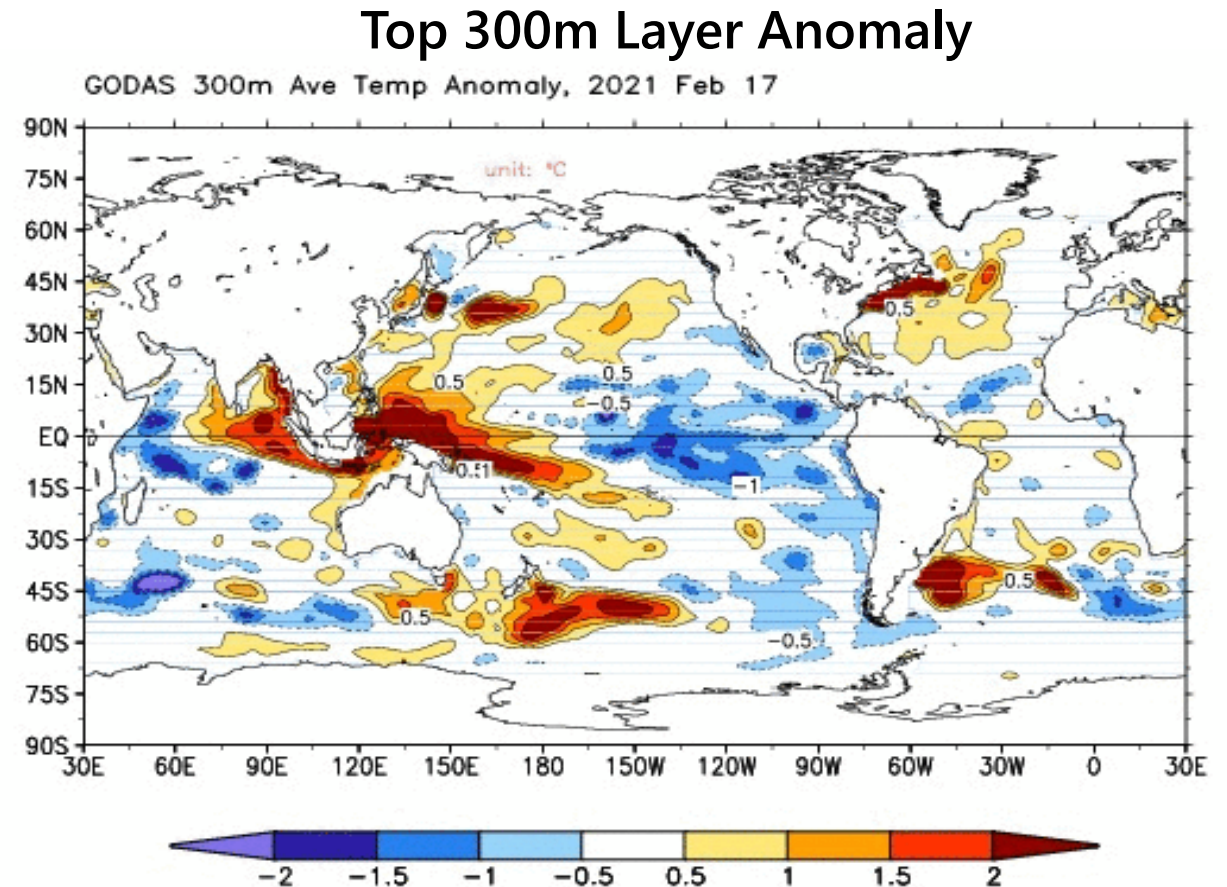
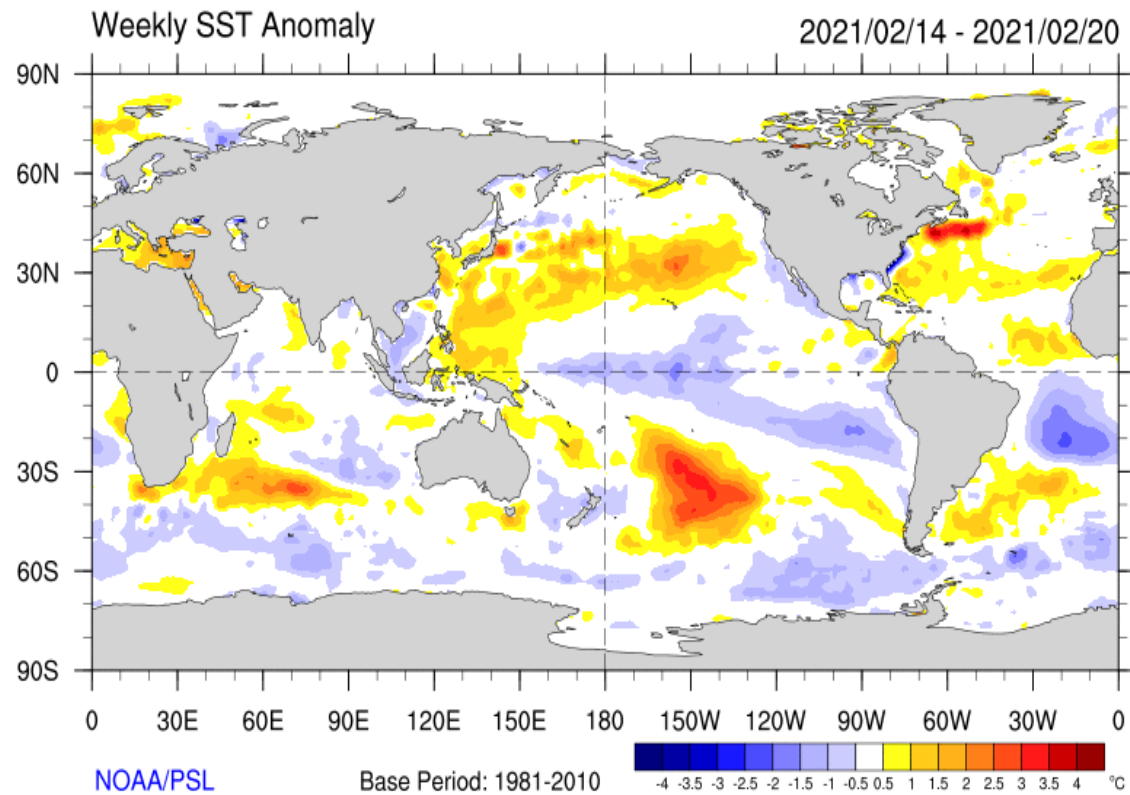
Wednesday 24 February 2021

Sea Surface Temperatures (Last Week)



Are the anomalies deep?

Deep anomalies tend to last longer and are useful for subseasonal forecasting.

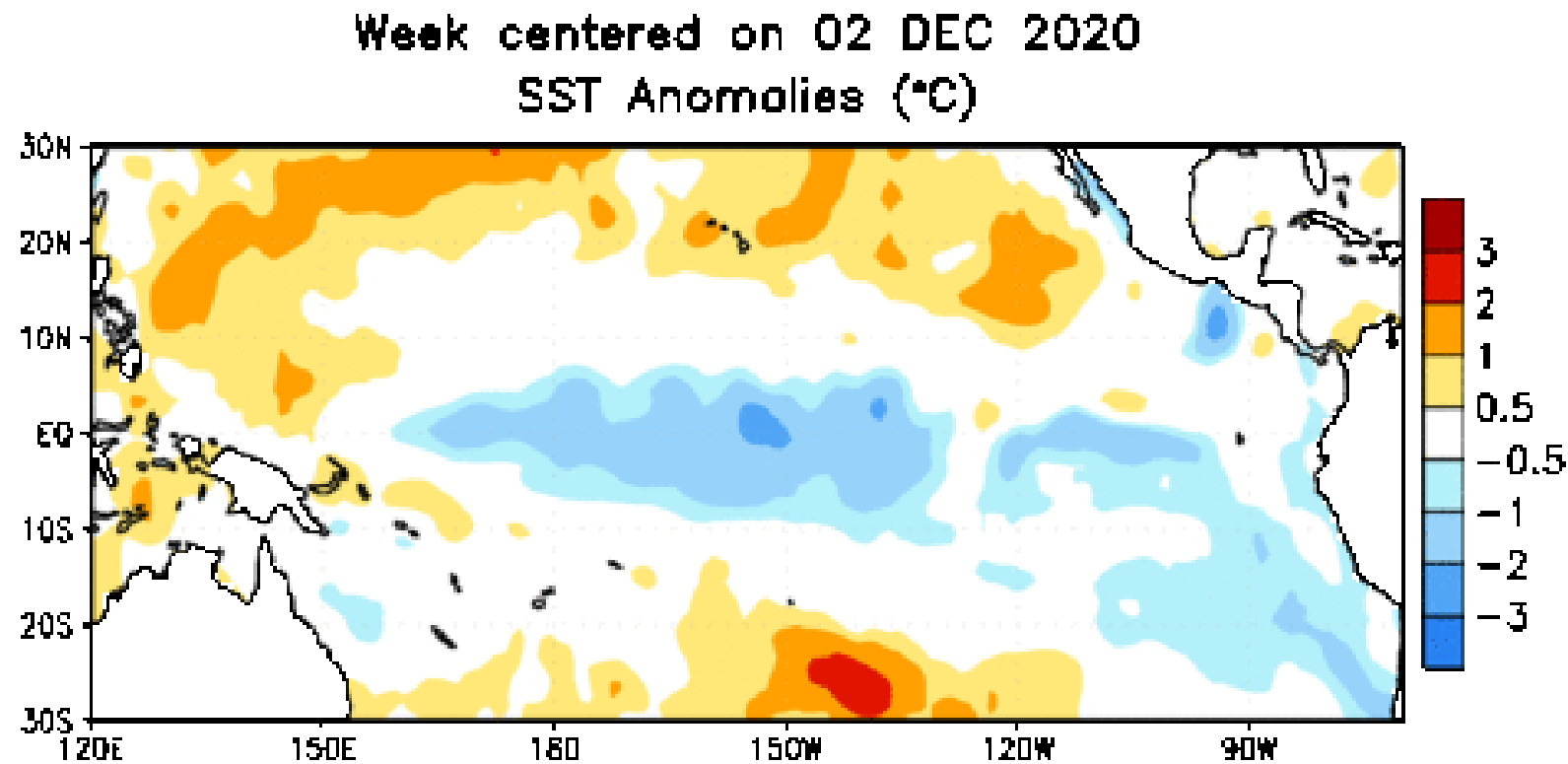


Source: CPC GODAS, <https://www.cpc.ncep.noaa.gov/products/GODAS/>

ENSO:

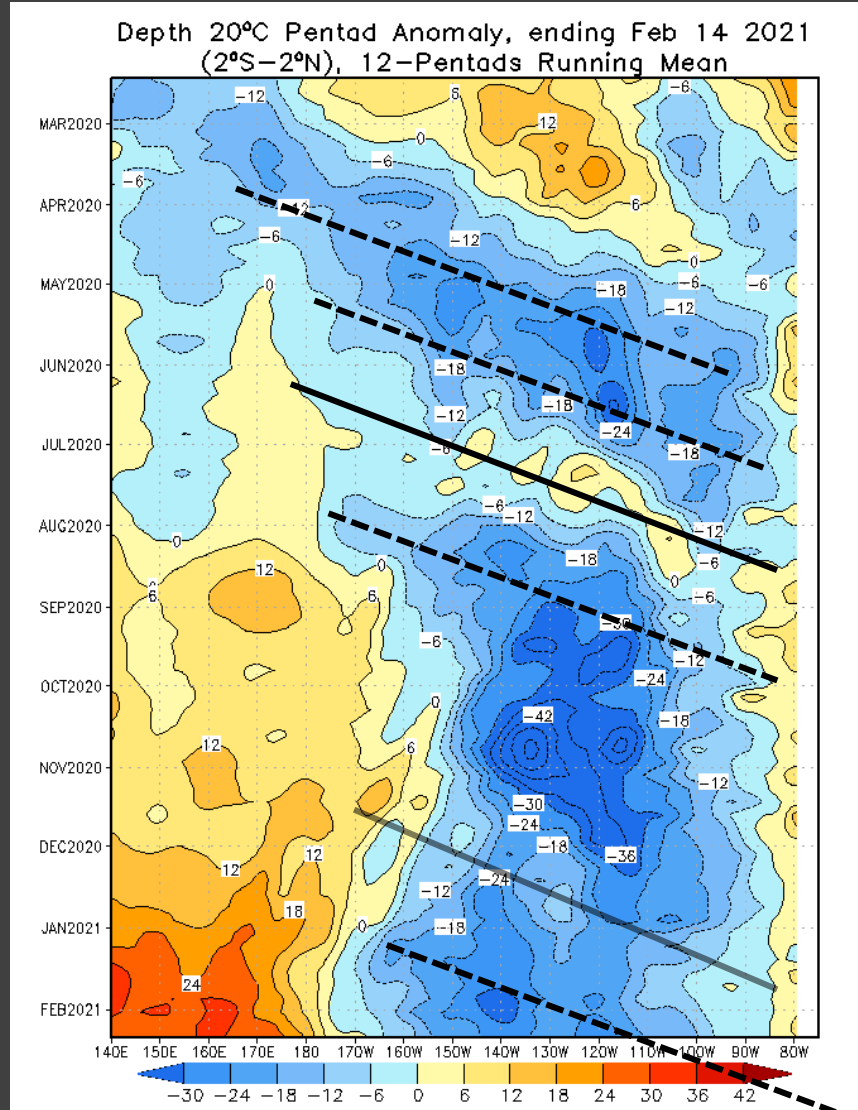
La Niña

- La Niña is present.*
- Equatorial sea surface temperatures (SSTs) are below average from the west-central to eastern Pacific Ocean.
- The tropical atmospheric circulation is consistent with La Niña.

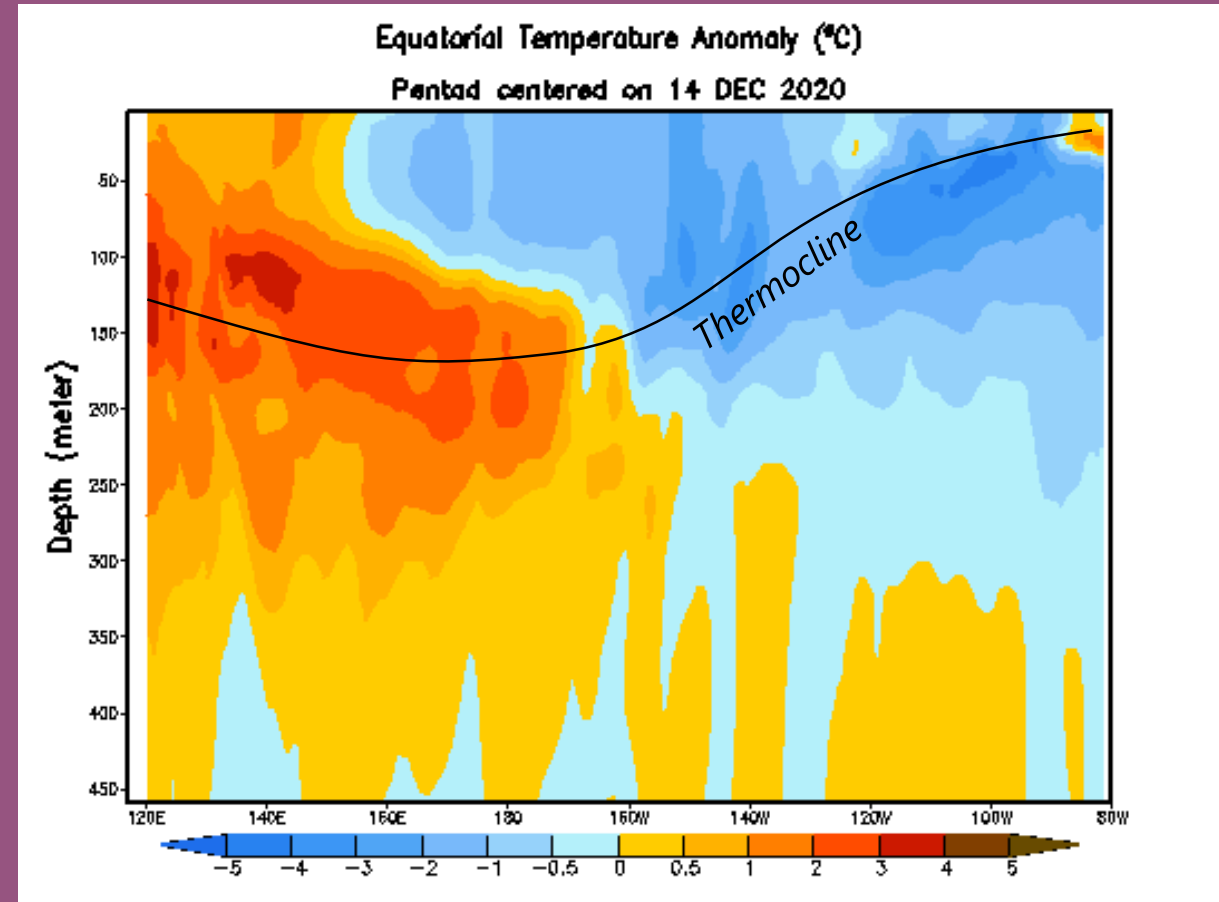


ENSO

Hovmöller: Heat Content



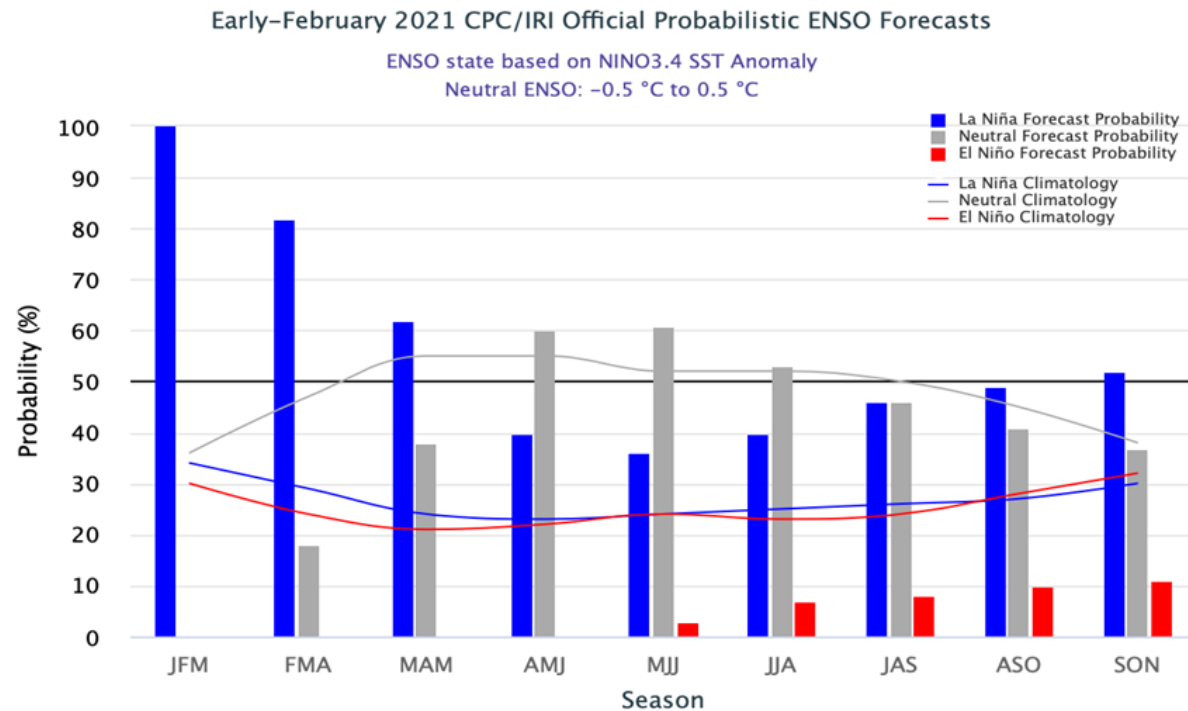
Equatorial Pacific Temp. Anomaly



ENSO Outlook

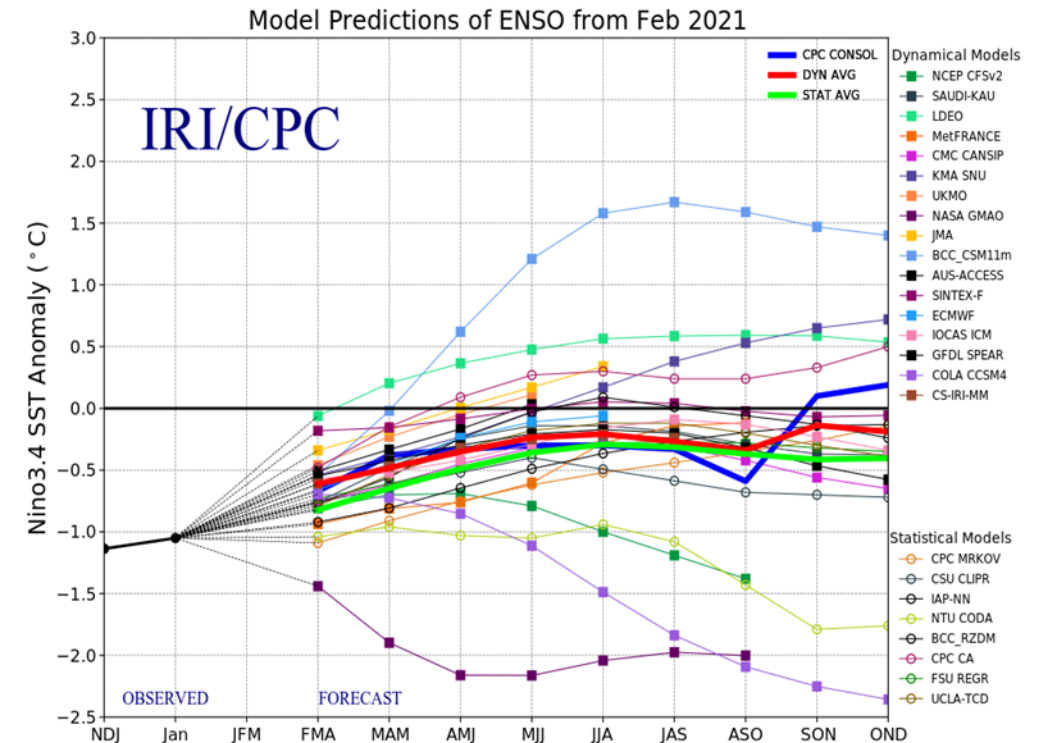
There is a ~60% chance of a transition from La Niña to ENSO-Neutral during the Northern Hemisphere spring 2021 (April-June).*

CPC/IRI Probabilistic Forecast

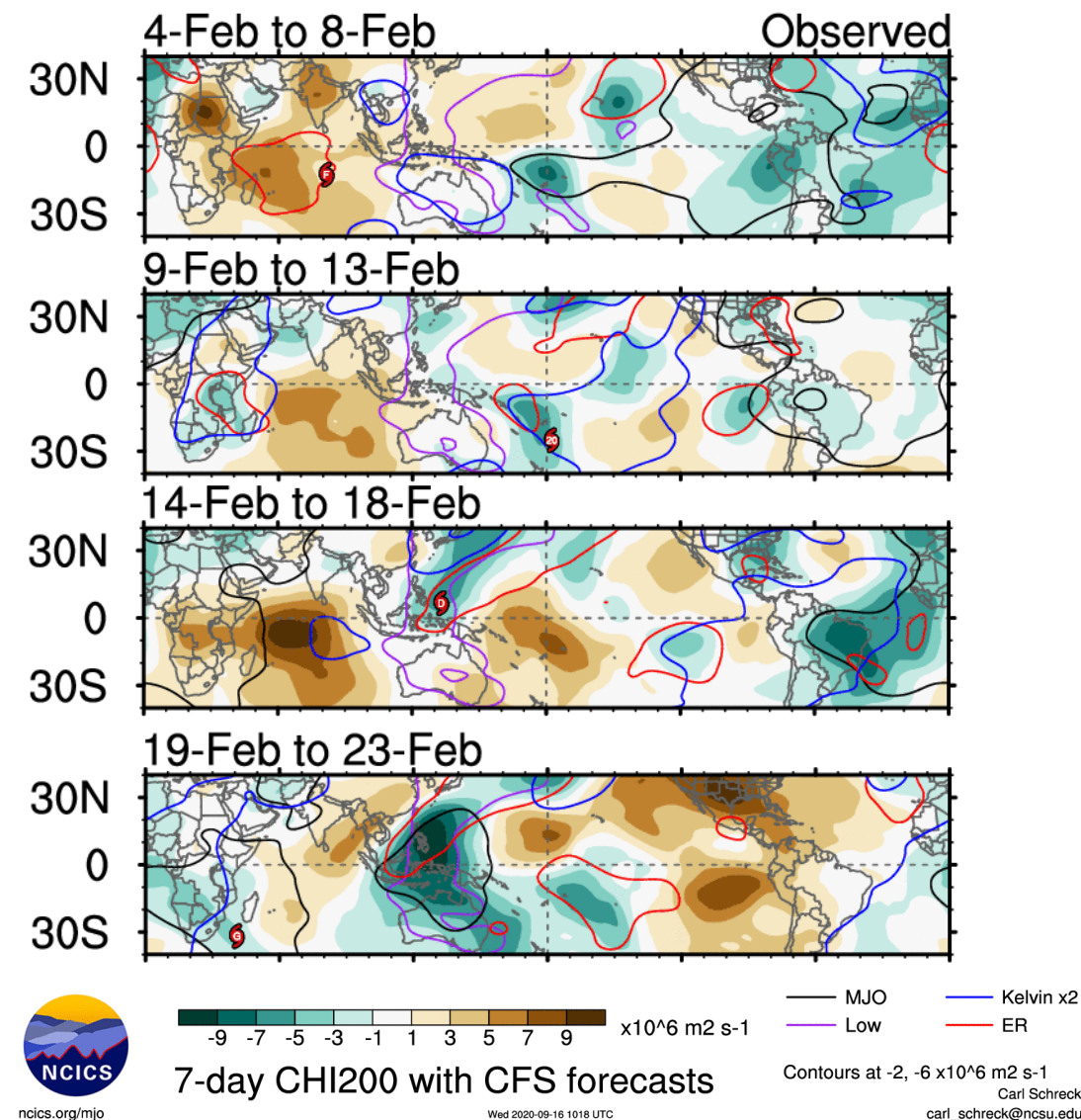
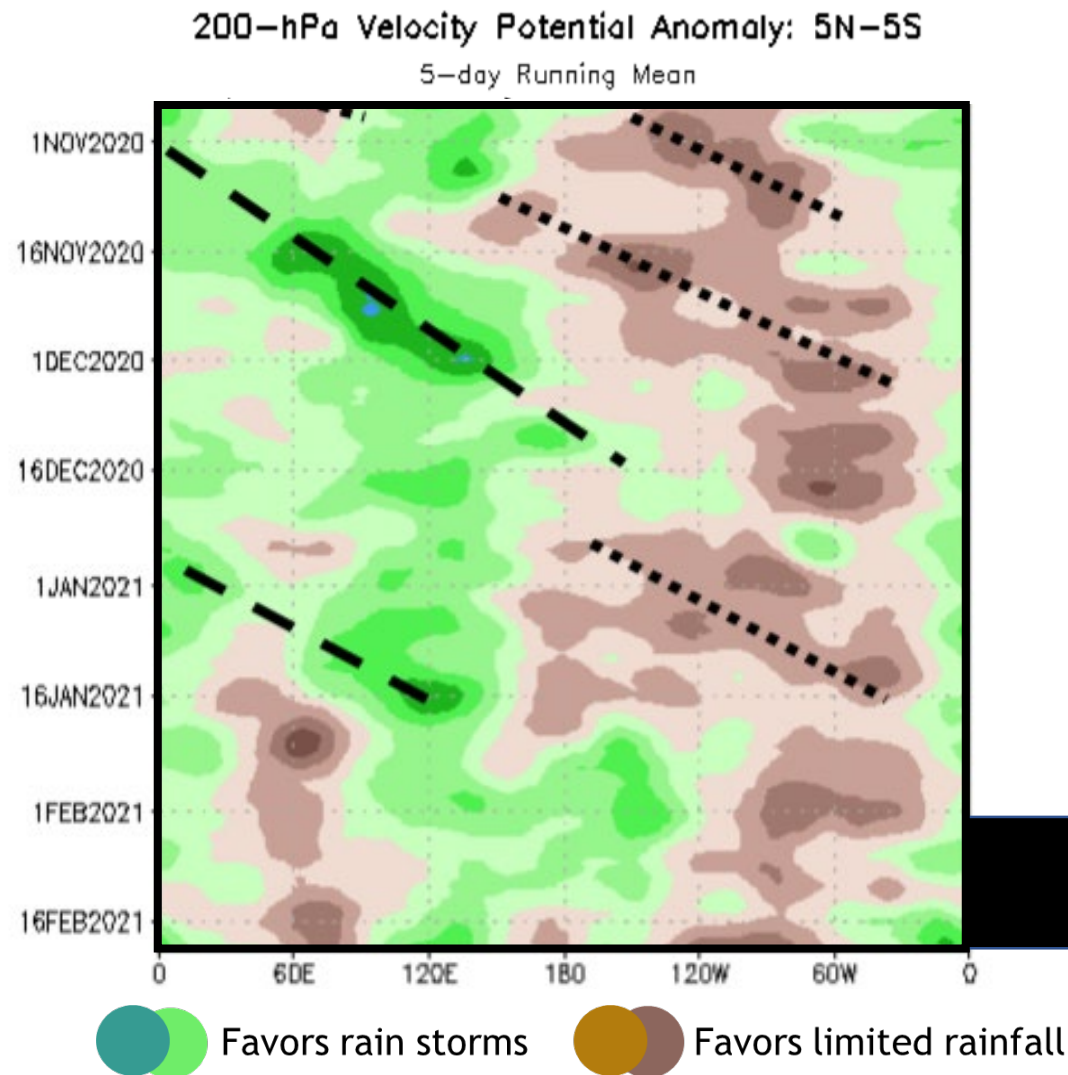


Source: CPC

IRI/CPC Dynamic Models



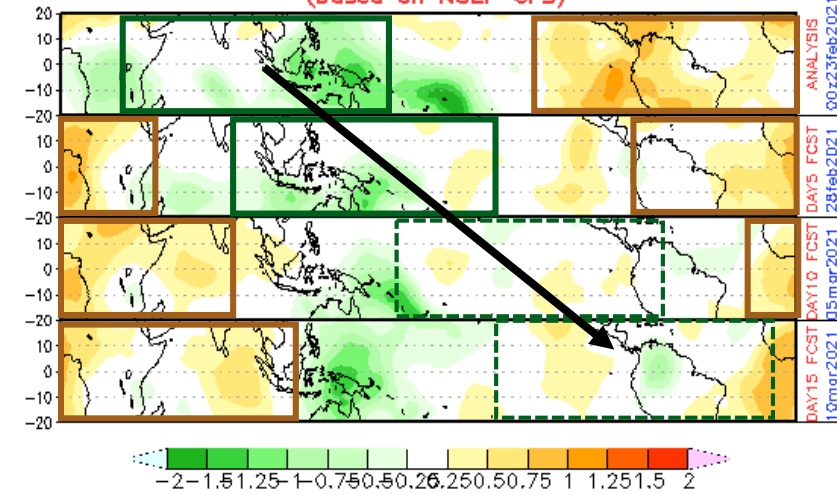
Madden-Julian Oscillation (MJO)



MJO Forecasts

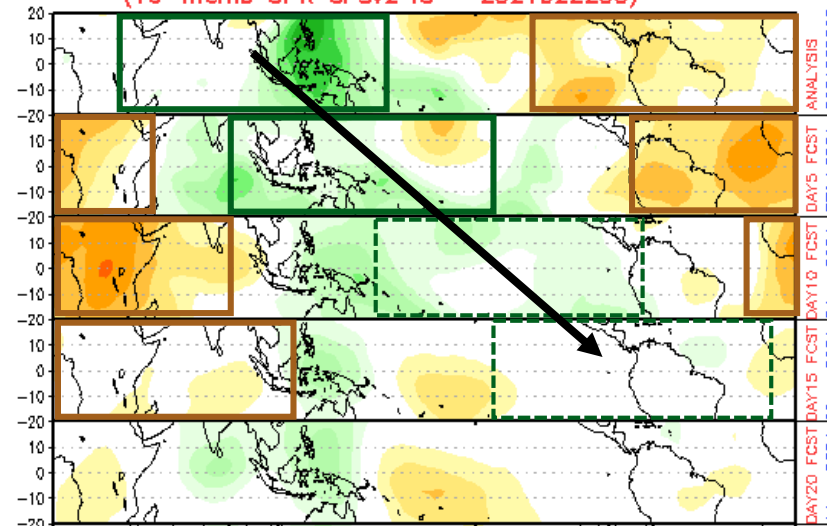
GFS

CHI 200 hPa 15-DAY forecast (00z23feb2021-10mar2021)
(based on NCEP GFS)



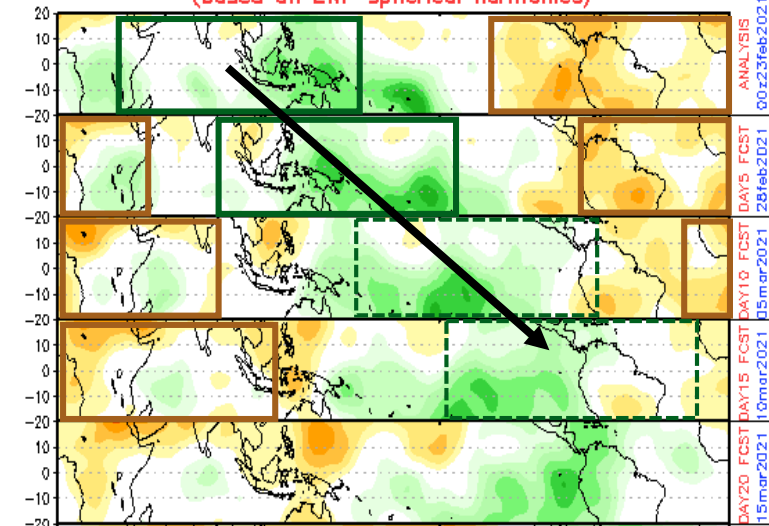
CFS

CHI 200 hPa 40-DAY forecast (00z22feb2021-03apr2021)
(16-memb OPR CFSv2 IC = 2021022200)



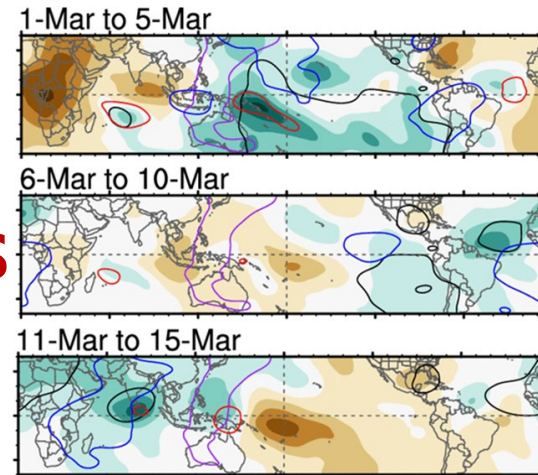
EWP

CHI 200 hPa 40-DAY forecast (00z23feb2021-04apr2021)
(based on EWP spherical harmonics)



Upper divergent phase:
March 4 - 14

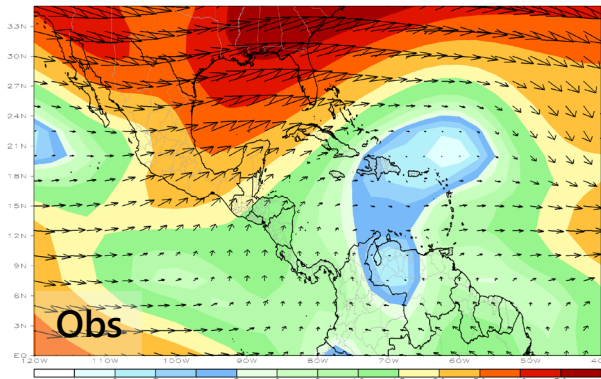
CFS



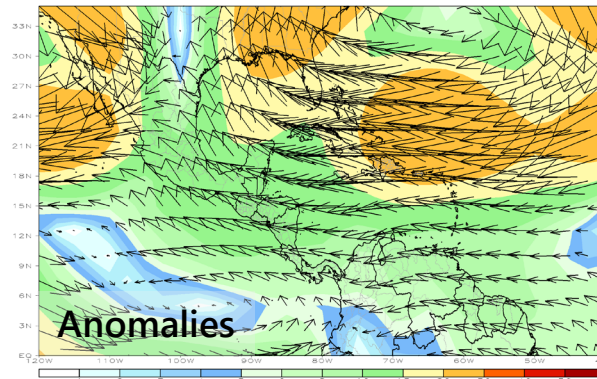
Last Week's Circulation and Rainfall – Tropical Americas

200
hPa

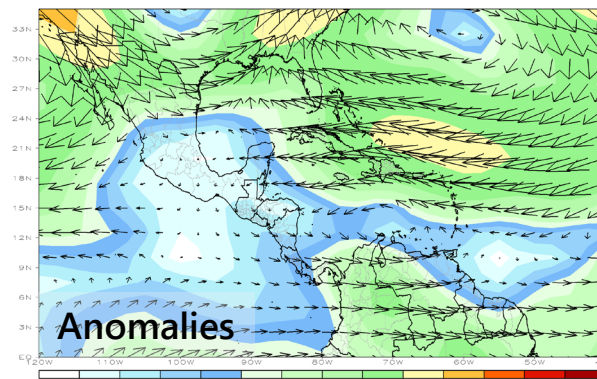
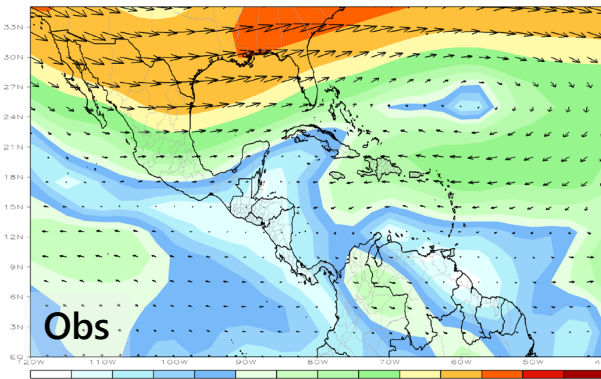
CDAS 200mb 7-Day Mean Vector Wind Total (m/s)
Period: 15Feb2021 – 21Feb2021



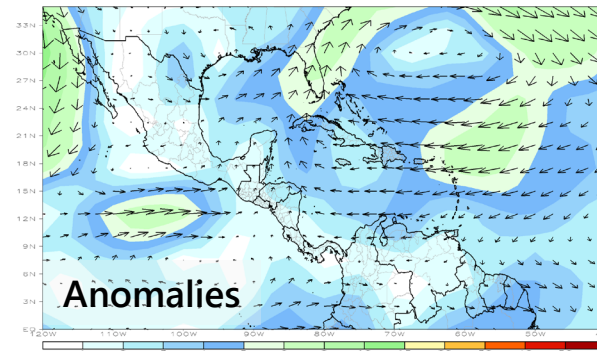
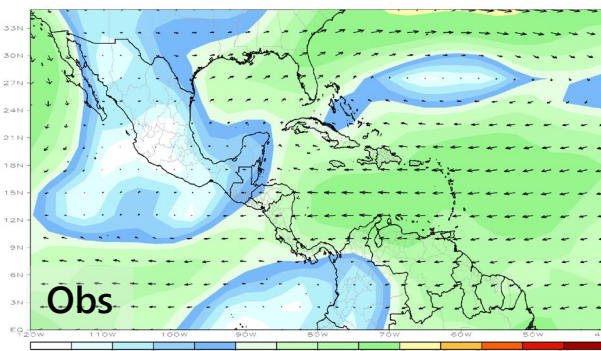
CDAS 200mb 7-Day Mean Vector Wind Anomaly (m/s)
Period: 15Feb2021 – 21Feb2021



500
hPa

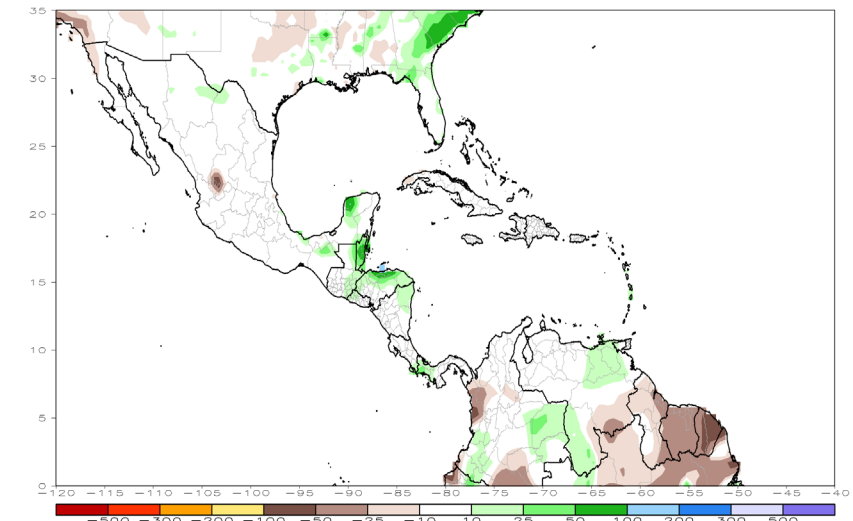


850
hPa

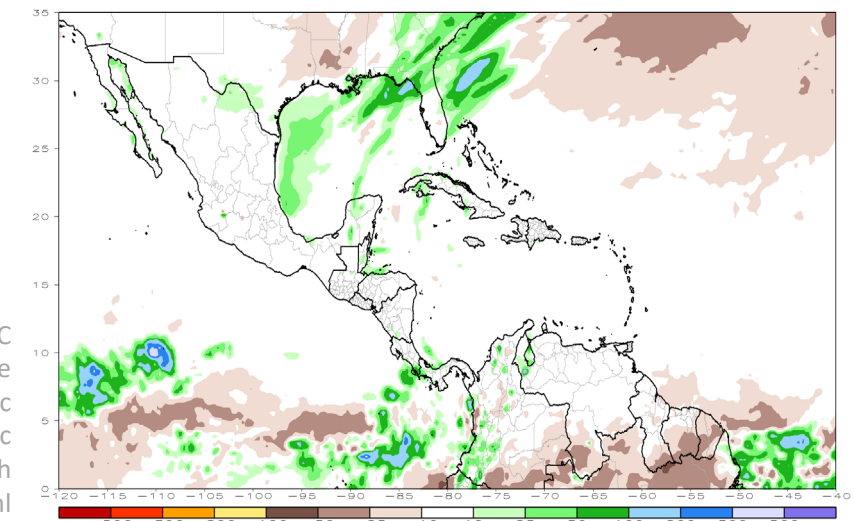


Rainfall

CPC Unified Gauge 7-Day Total Rainfall Anomaly (mm)
Period: 16Feb2021 – 22Feb2021



CMORPH 7-Day Total Rainfall Anomaly (mm)
Period: 15Feb2021 – 21Feb2021

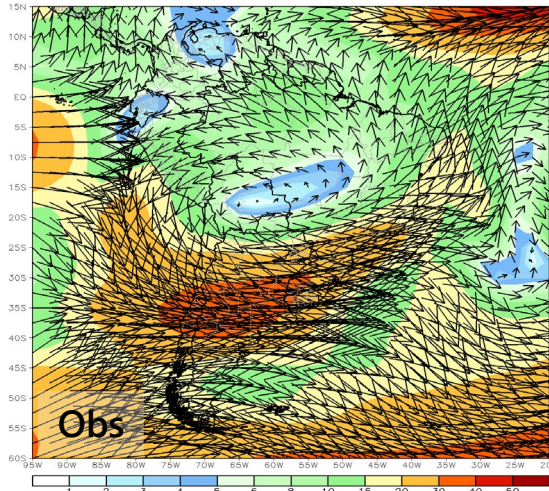


CMORPH: CPC
Morphing Technique
https://www.cpc.ncep.noaa.gov/products/janowiak/cmorph_description.html

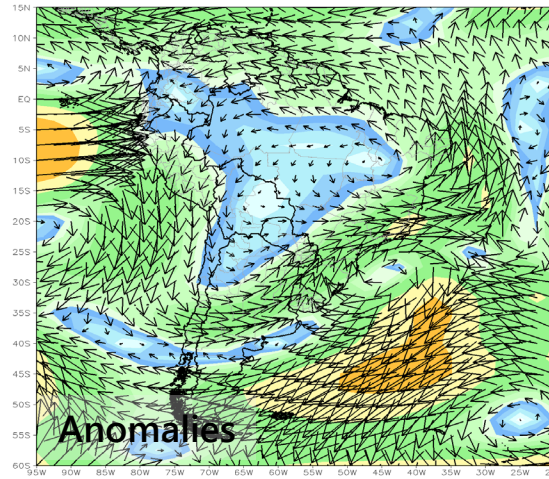
Last Week's Circulation and Rainfall – South America

200
hPa

CDAS 200mb 7-Day Mean Vector Wind Total (m/s)
Period: 15Feb2021 – 21Feb2021

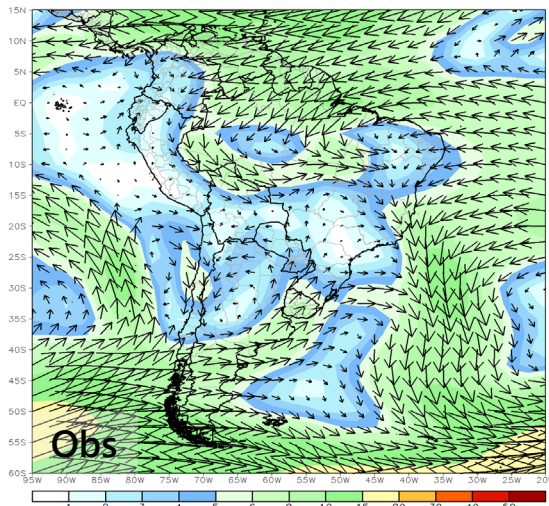


CDAS 200mb 7-Day Mean Vector Wind Anomaly (m/s)
Period: 15Feb2021 – 21Feb2021

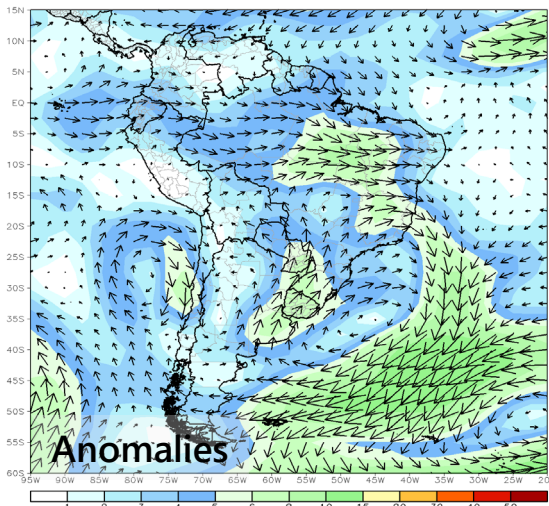


850
hPa

CDAS 850mb 7-Day Mean Vector Wind Total (m/s)
Period: 15Feb2021 – 21Feb2021

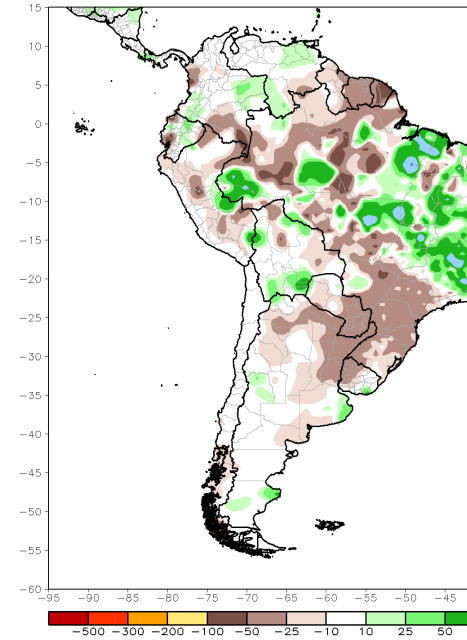


CDAS 850mb 7-Day Mean Vector Wind Anomaly (m/s)
Period: 15Feb2021 – 21Feb2021

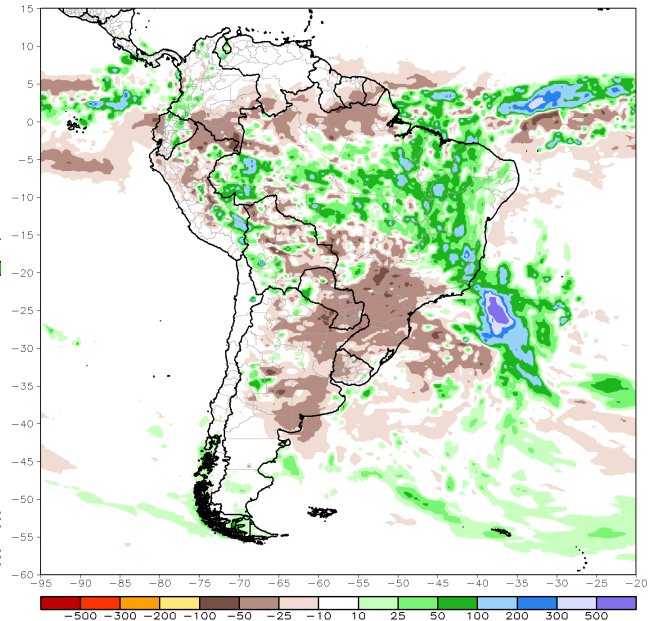


Rainfall

CPC Unified Gauge 7-Day Total Rainfall Anomaly (mm)
Period: 16Feb2021 – 22Feb2021



CMORPH 7-Day Total Rainfall Anomaly (mm)
Period: 15Feb2021 – 21Feb2021



CMORPH: CPC Morphing Technique
https://www.cpc.ncep.noaa.gov/products/janowiak/cmorph_description.htm



¡Gracias!

Thank you!