

JV Rio Tinguiririca

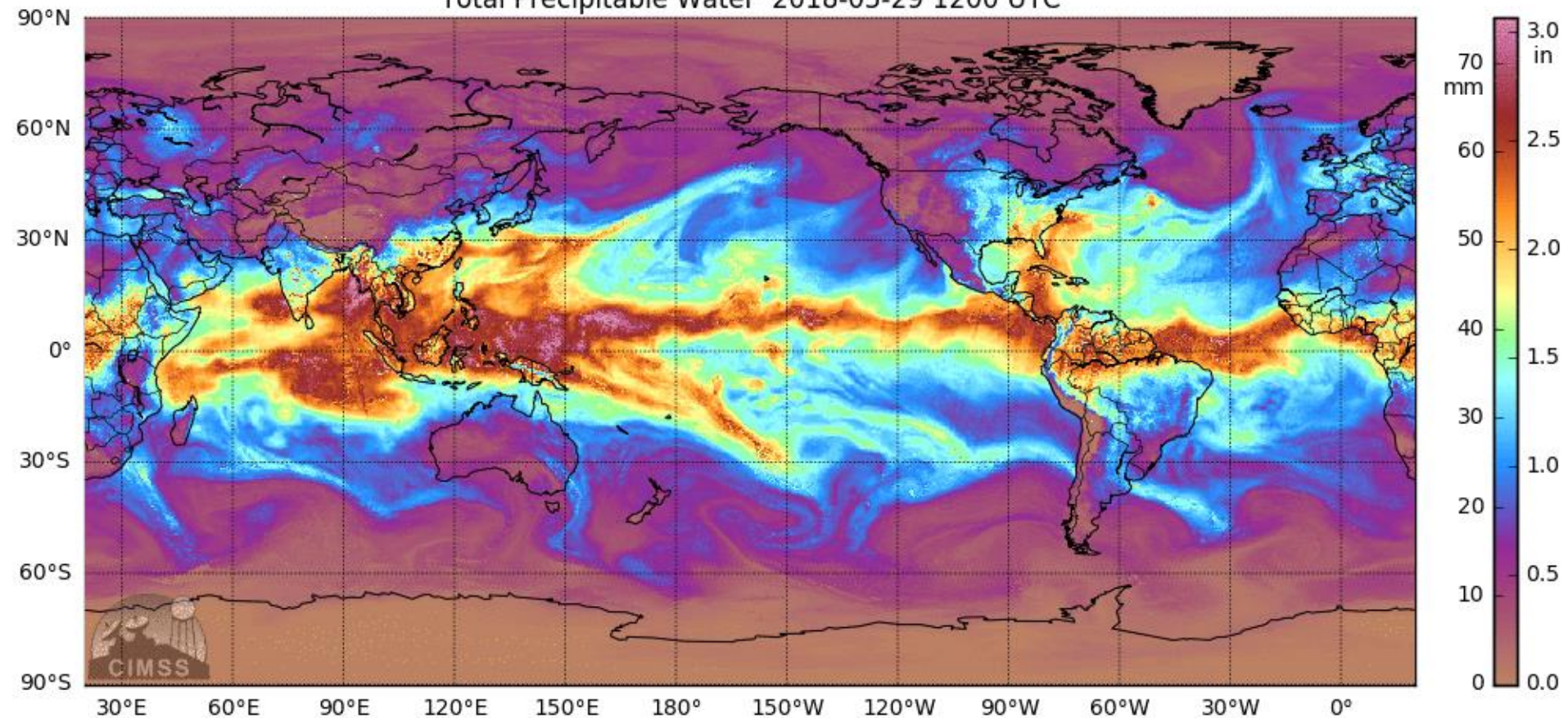
Estado actual y tendencias del clima de la
zona central de Chile

Santiago 8 de Agosto de 2018

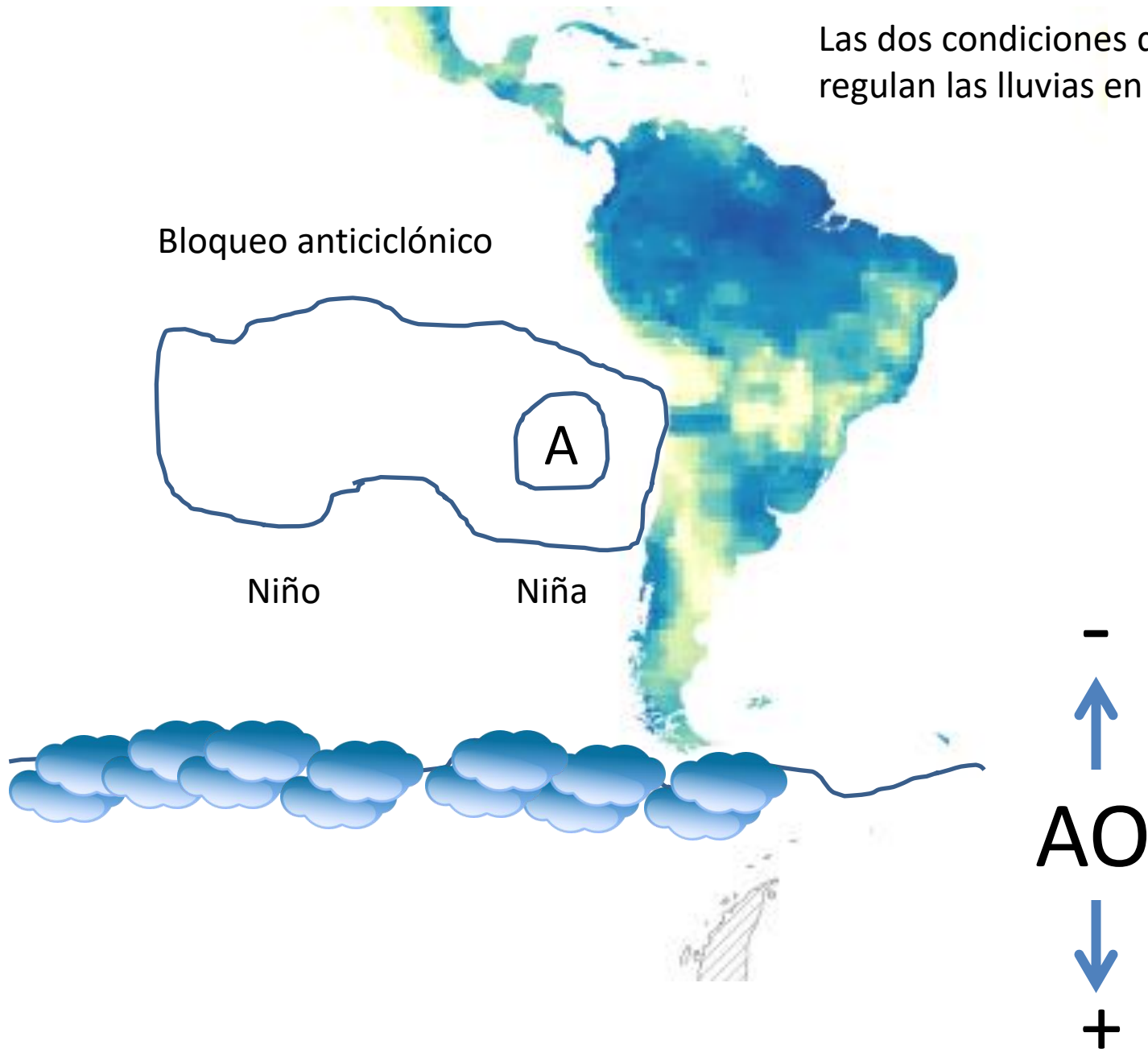
Fernando Santibáñez Q.
Ing Agrónomo
Dr. en bioclimatología

El anticiclón dirige el tránsito de los frentes en Chile

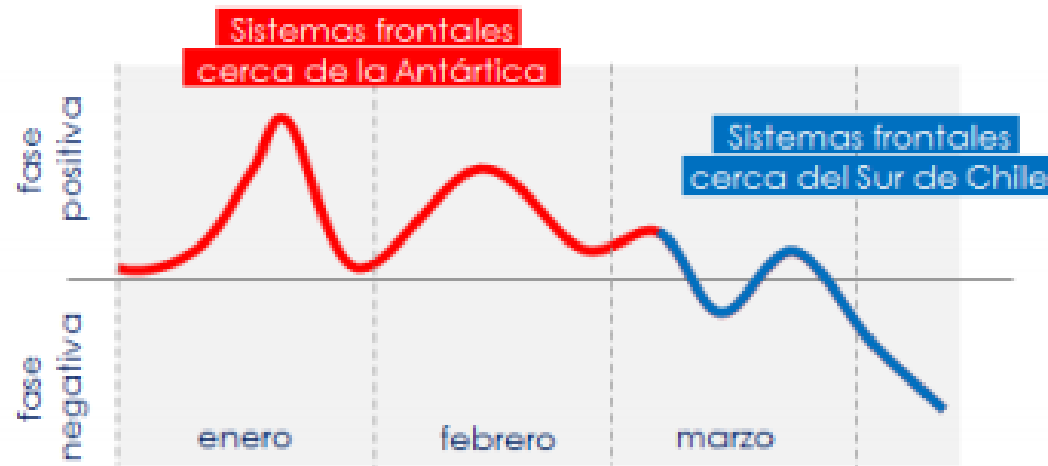
Total Precipitable Water 2018-05-29 1200 UTC



Las dos condiciones que regulan las lluvias en Chile

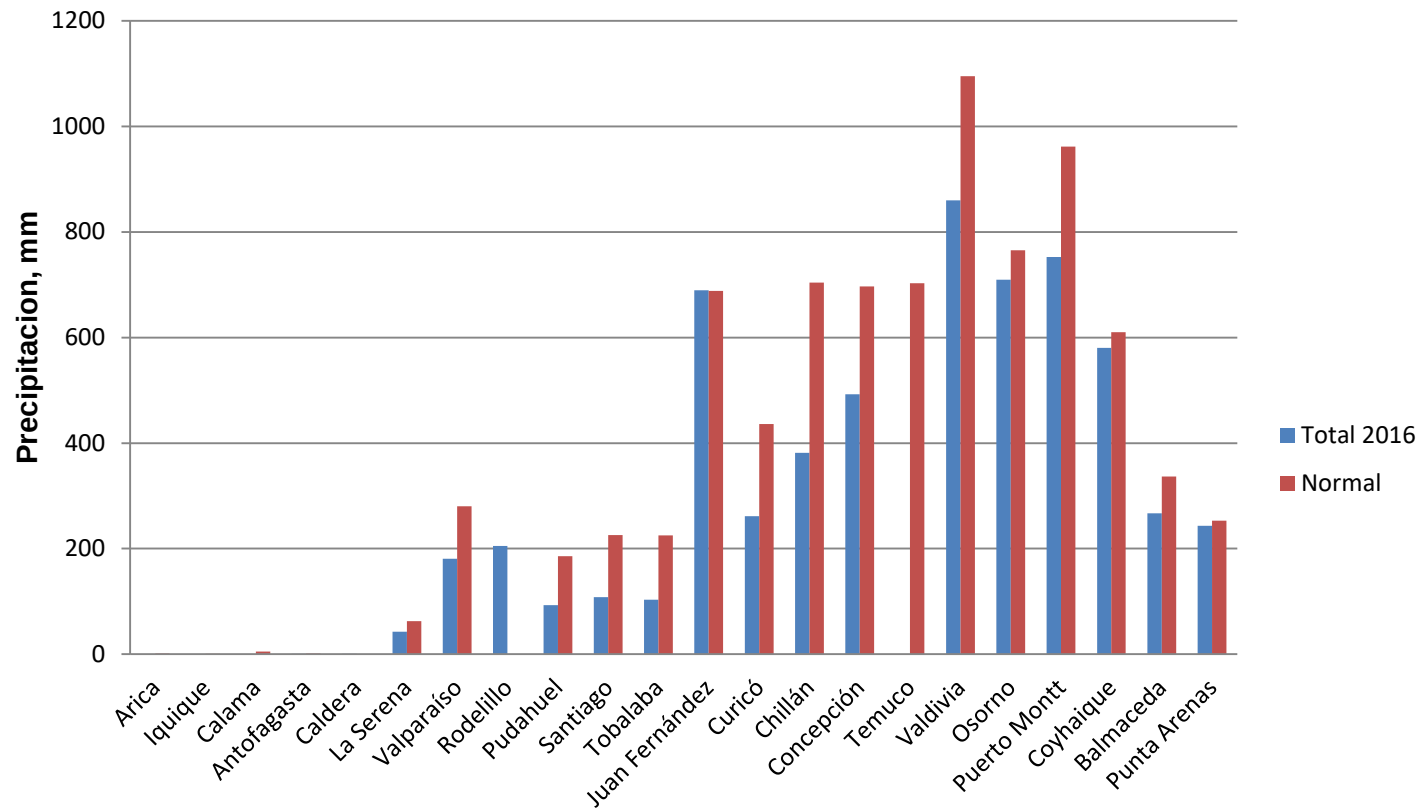


La caprichosa Oscilación Antártica



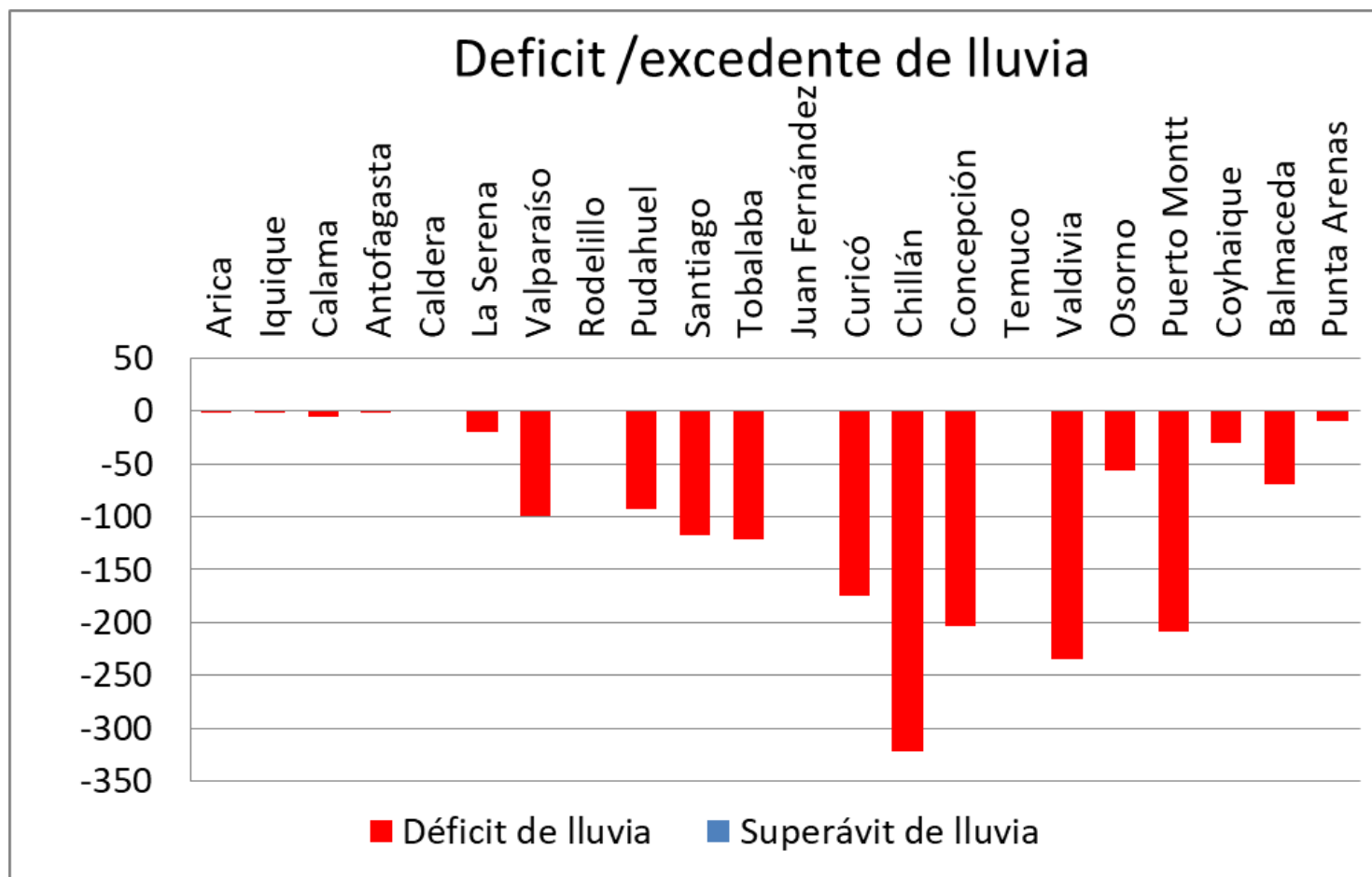
Sequia

Lluvia



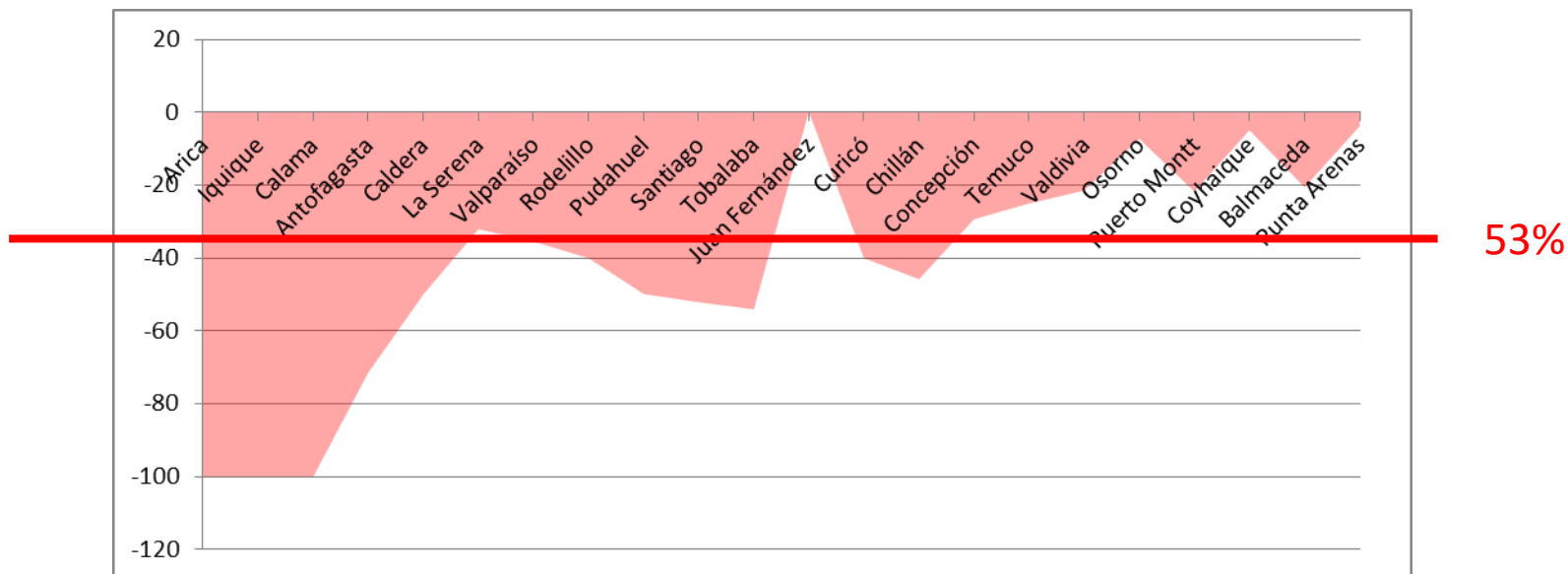
Estado de las precipitaciones al 25 de Julio de 2018

Nadie se escapa !!!



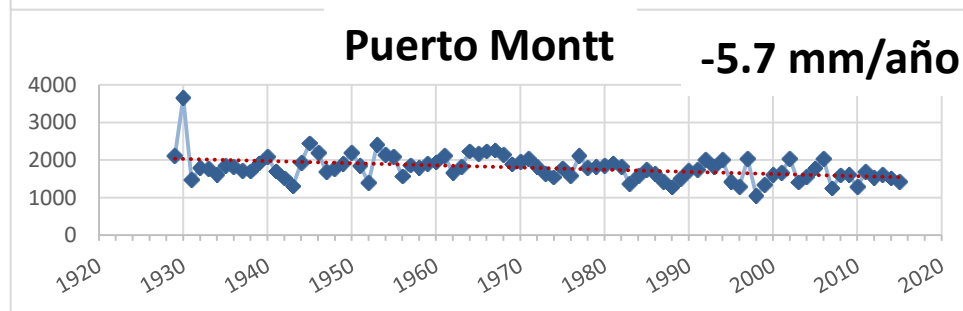
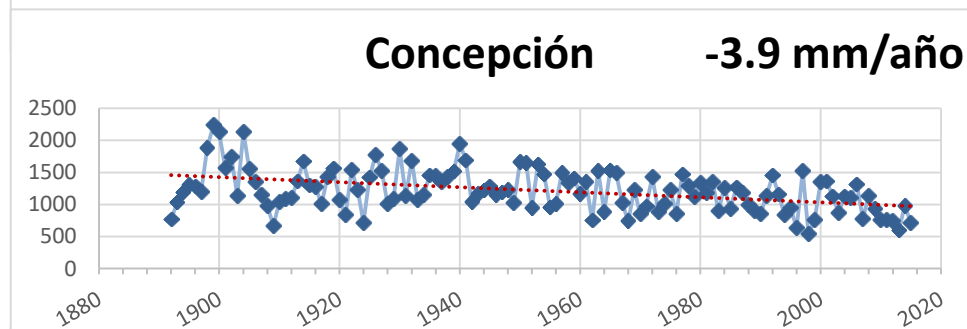
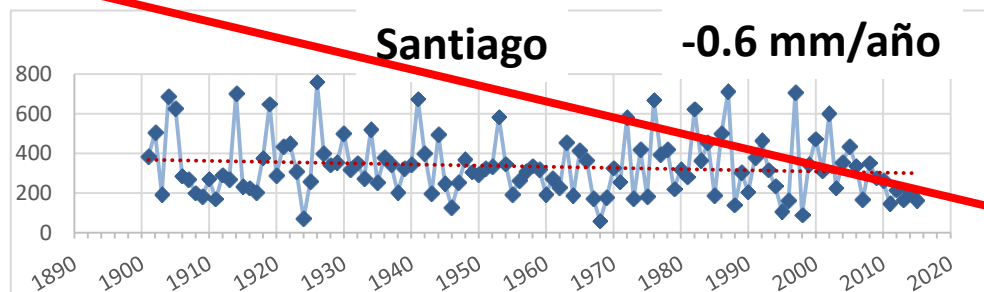
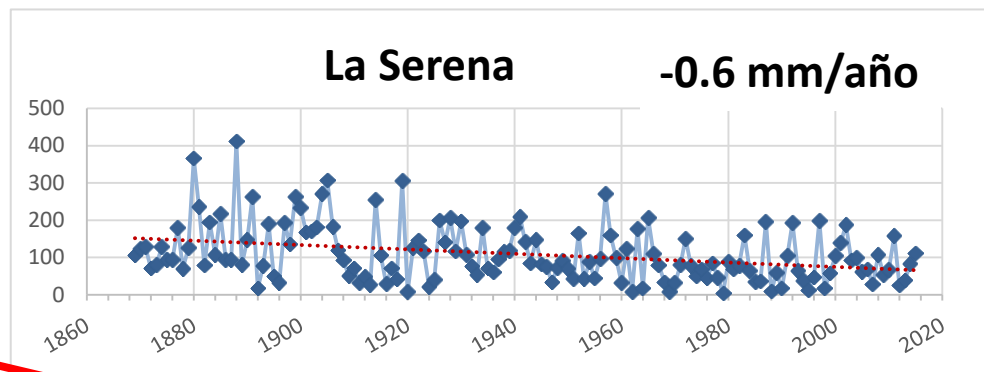
Acumulamos deuda impaga cercana al

Anatomía del déficit de lluvias de este año



Agua que no has de llover !!!

El hoy del cambio climático



**Es probable
que un nuevo
equilibrio
climático se
alcance hacia el
fin de este
siglo**

Qué está haciendo la precipitación en Chile

Zona Tendencia

Costa

Pronunciada baja

Cambio
cuantitativo y
cualitativo

disminucion del
numero de
eventos y monto
caida
pluviométrica

Centro

Estable o ligera baja

Cambio mas
cualitativo

disminucion
numero de
eventos

Cordillera

Nula o positiva
tendencia

?

?

SEASONS ARE SHIFTING

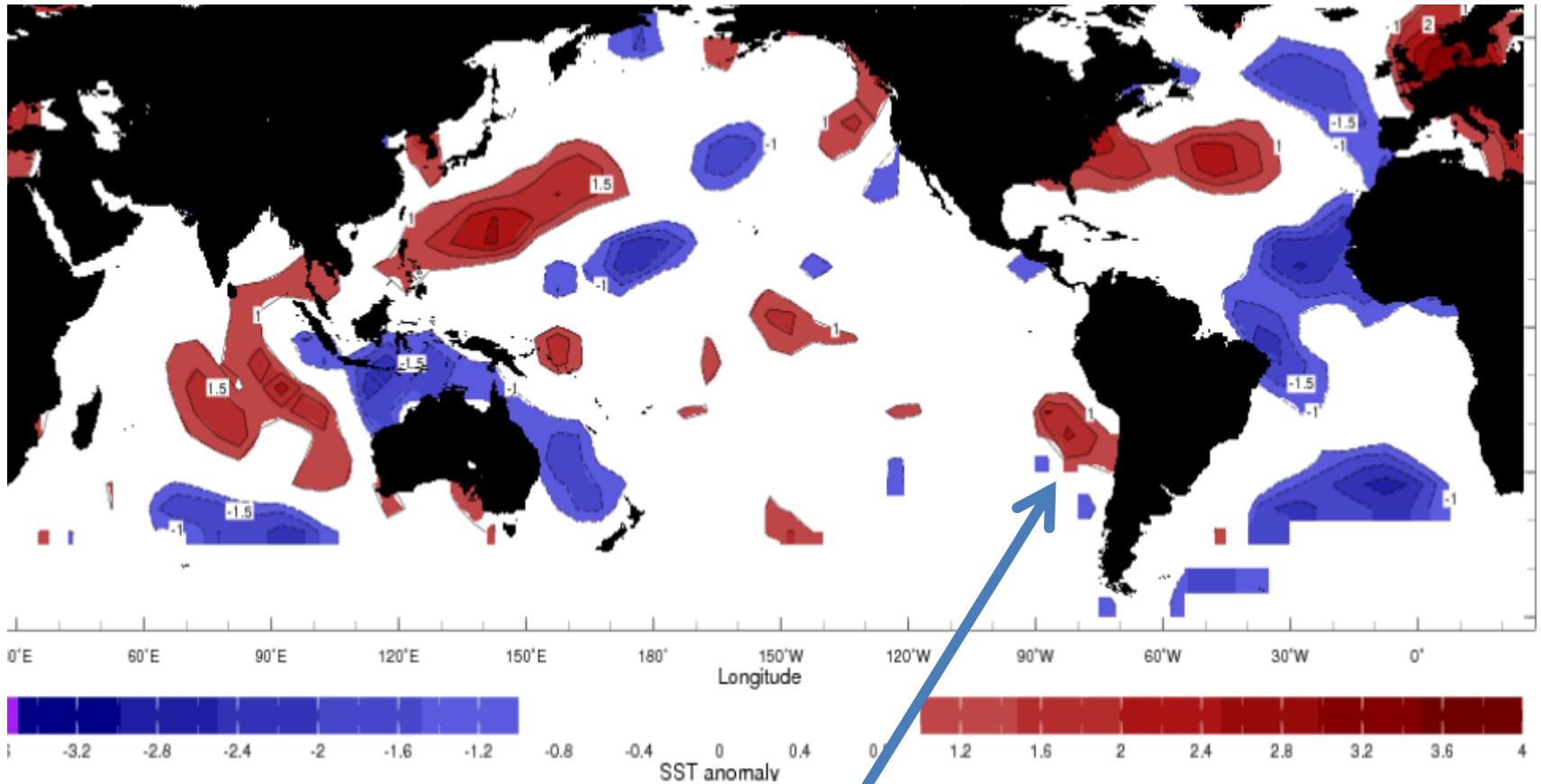


CLIMATE  CENTRAL

GIF

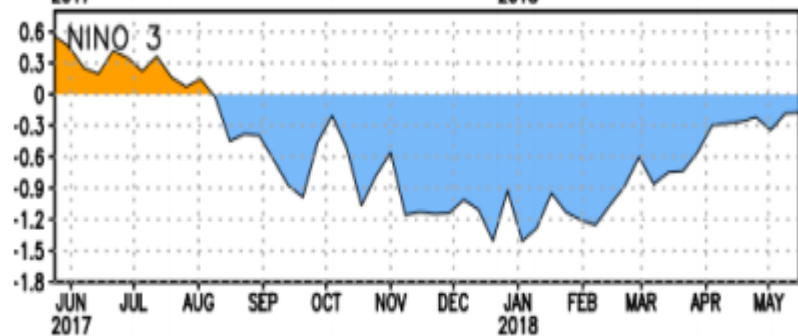
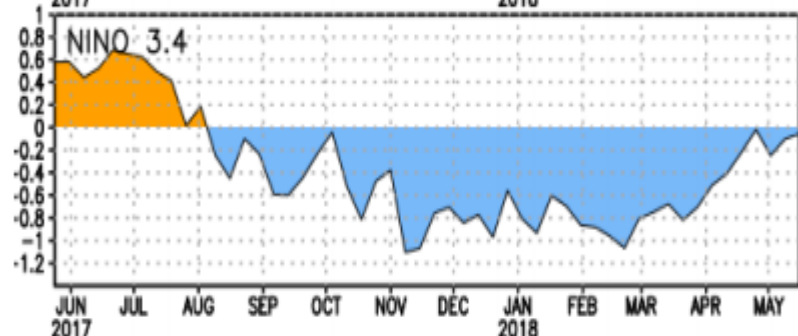
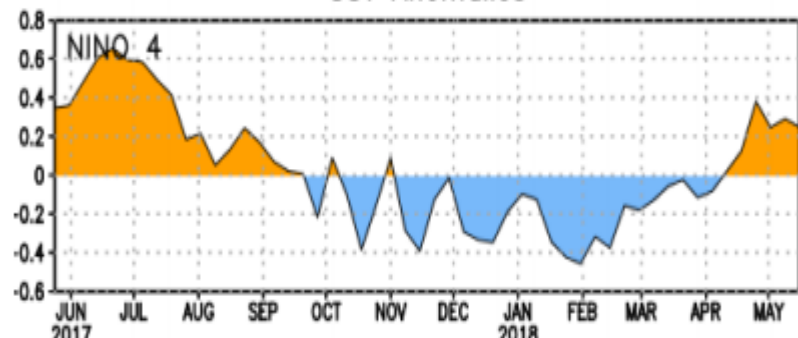
Año 2018 : dónde se fue la
lluvia?

Cambio en la TSM durante el último mes

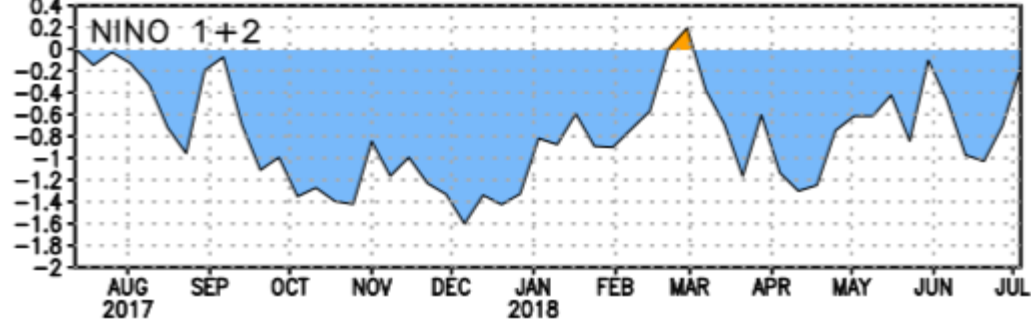
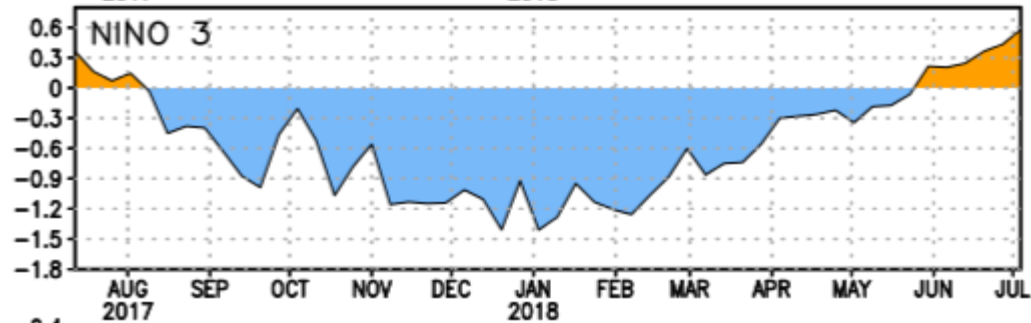
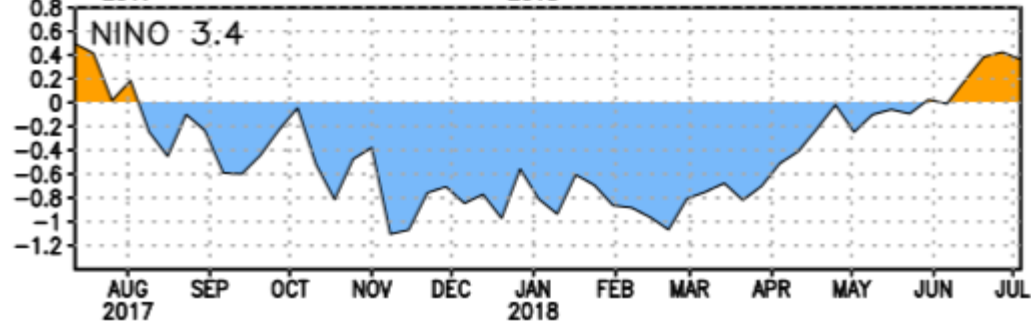
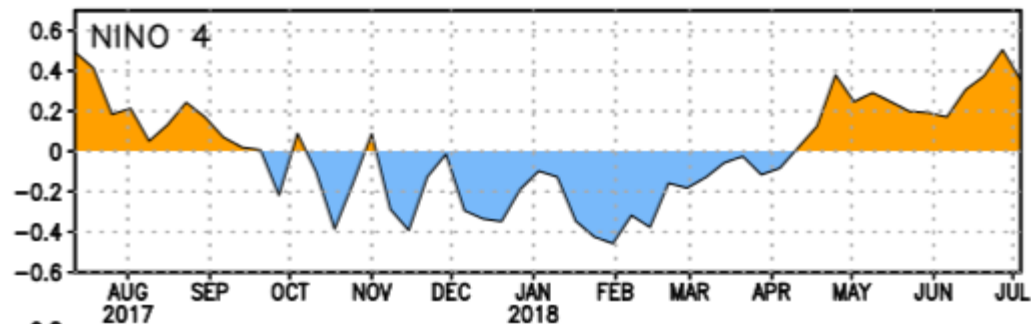


Nuestras costas se entibian

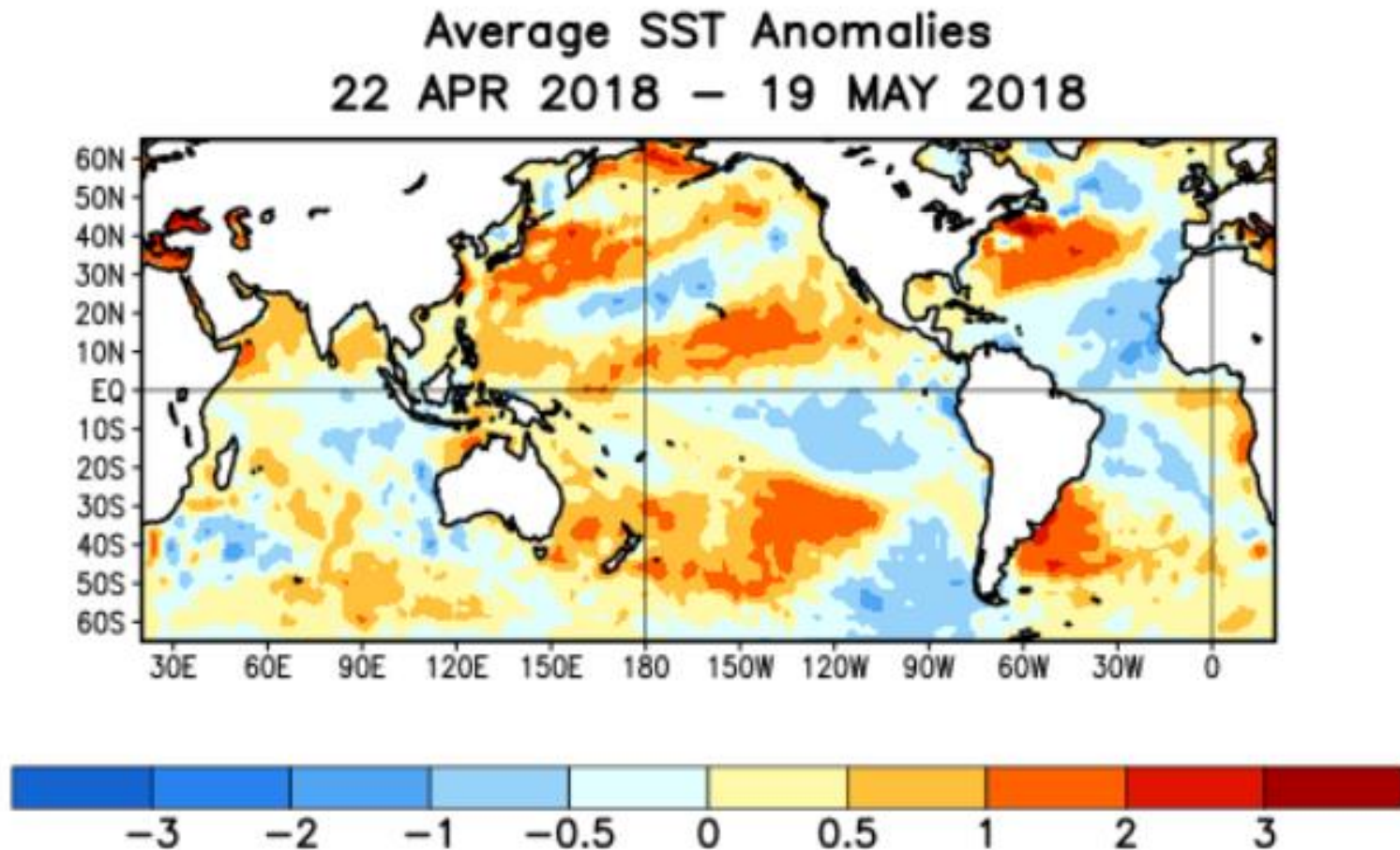
SST Anomalies



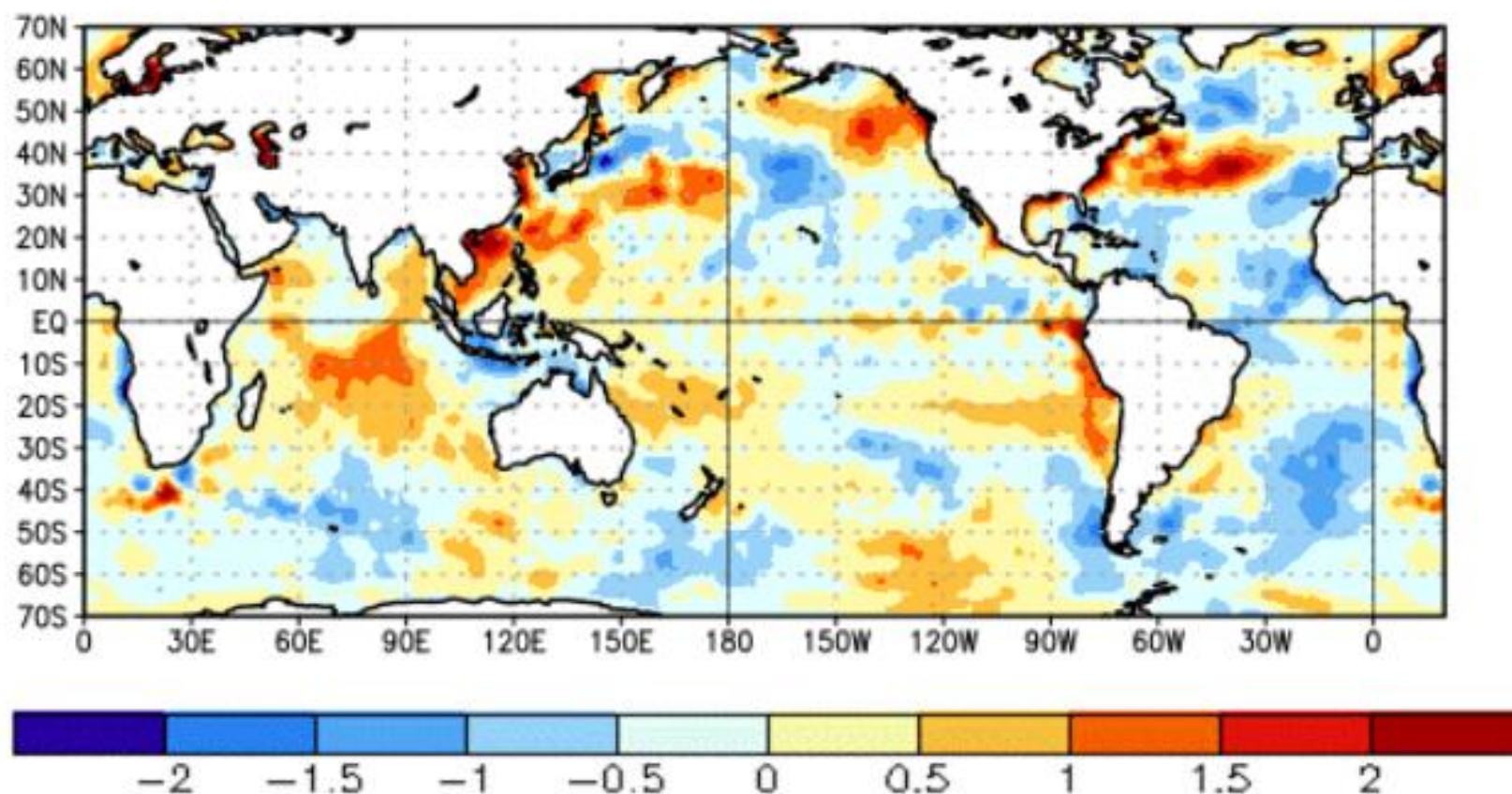
SST Anomalies



Un Pacífico Sur más cálido para esta primavera: Buena o mala noticia?

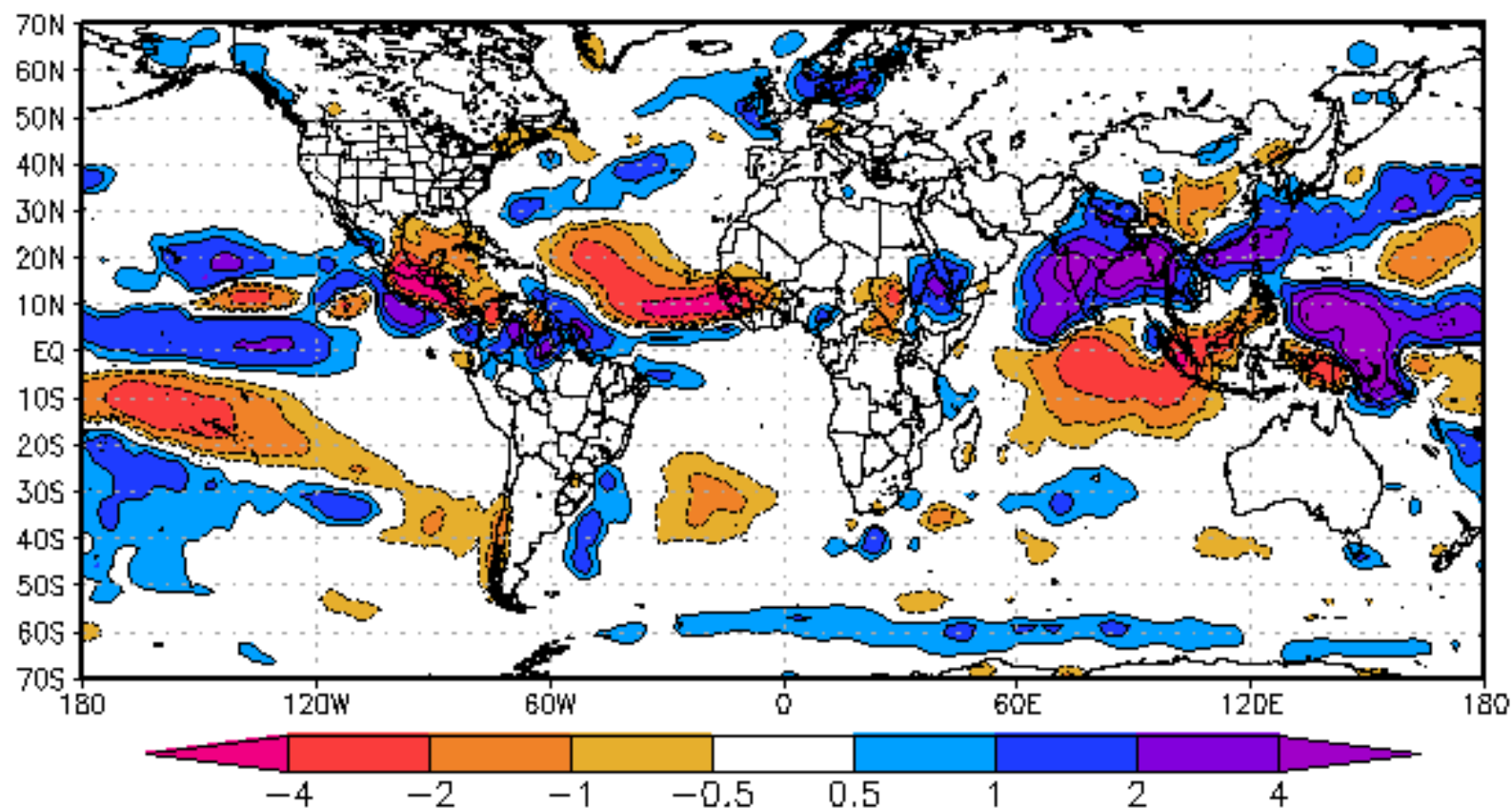


Change in Weekly SST Anoms ($^{\circ}\text{C}$)
16MAY2018 minus 18APR2018



2018 Un año de austeridad hídrica !!!

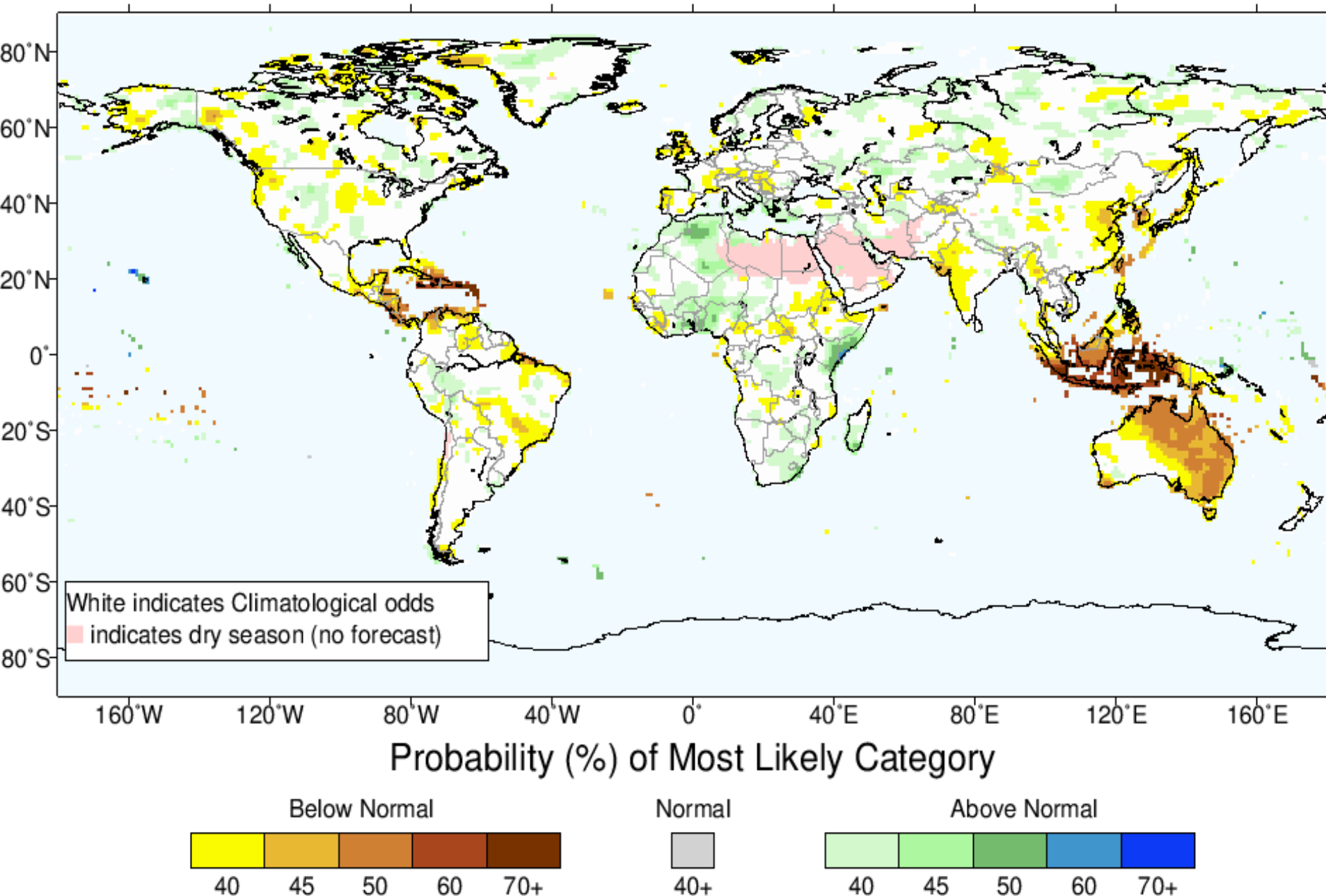
JUL2018 AUG2018 SEP2018



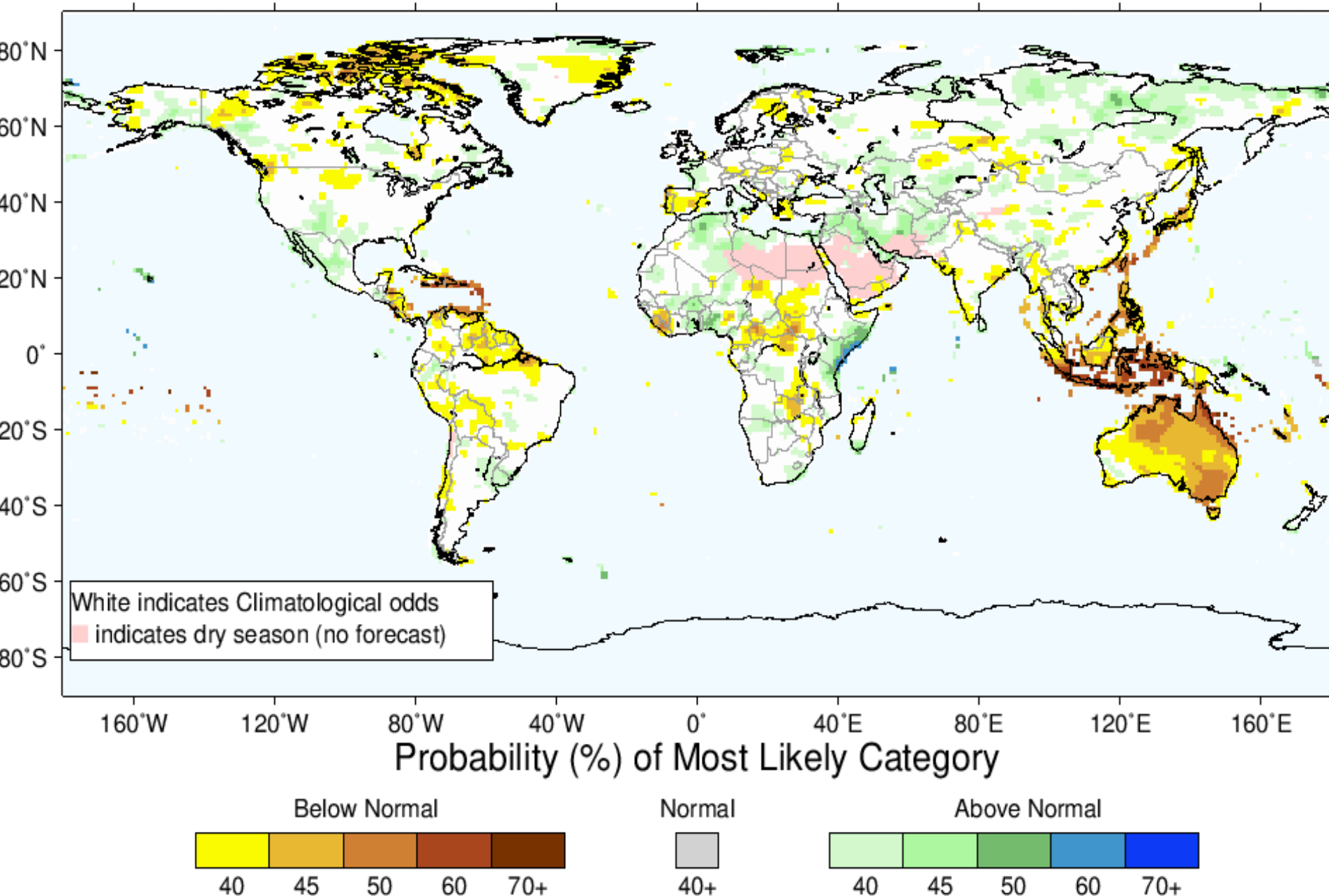
CPTEC/INPE SST PERSISTED: ALL OCEANS Jun18 15 ENSEMBLE MEAN

Las proyecciones...

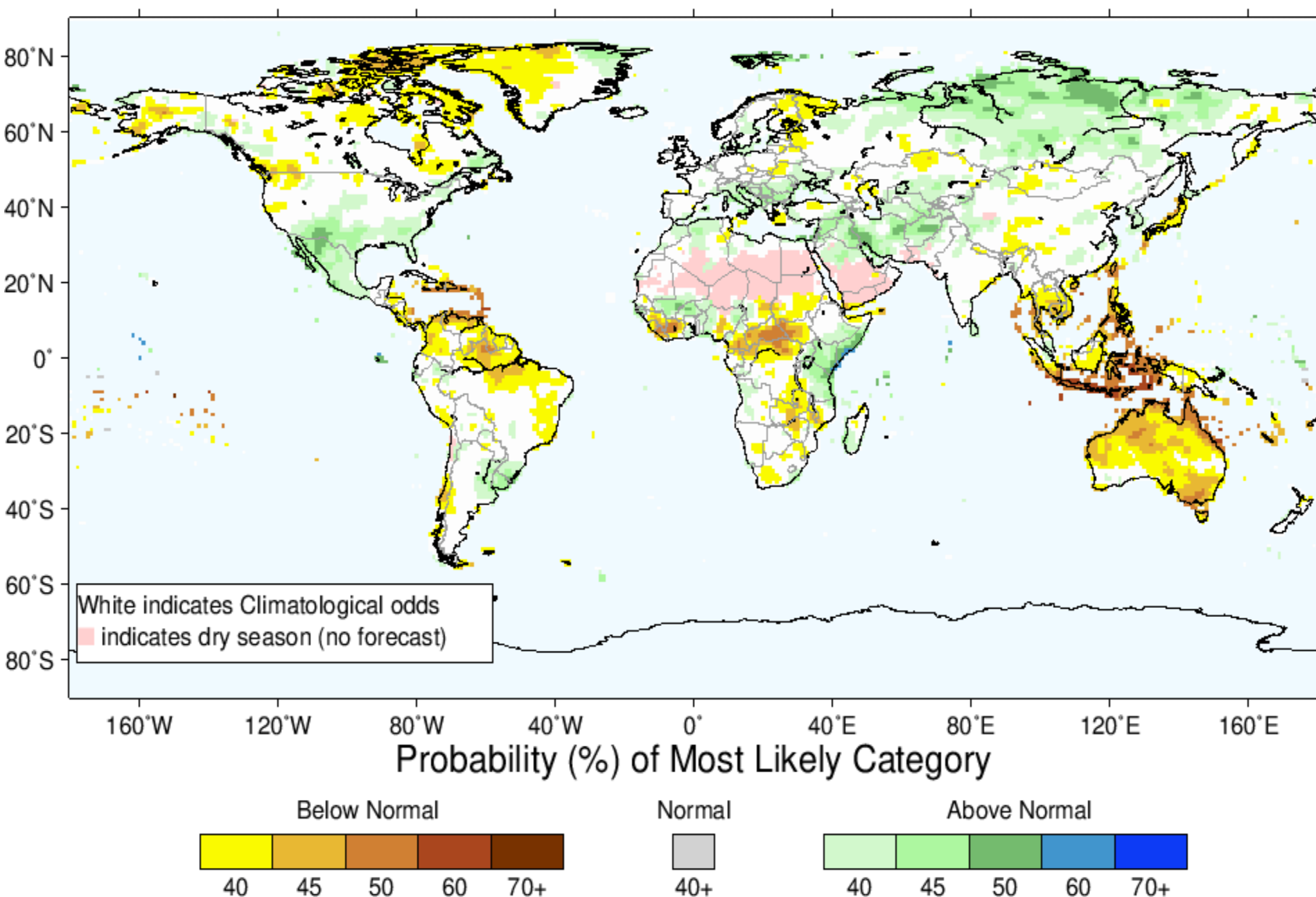
IRI Multi-Model Probability Forecast for Precipitation for August–September–October 2018, Issued July 2018



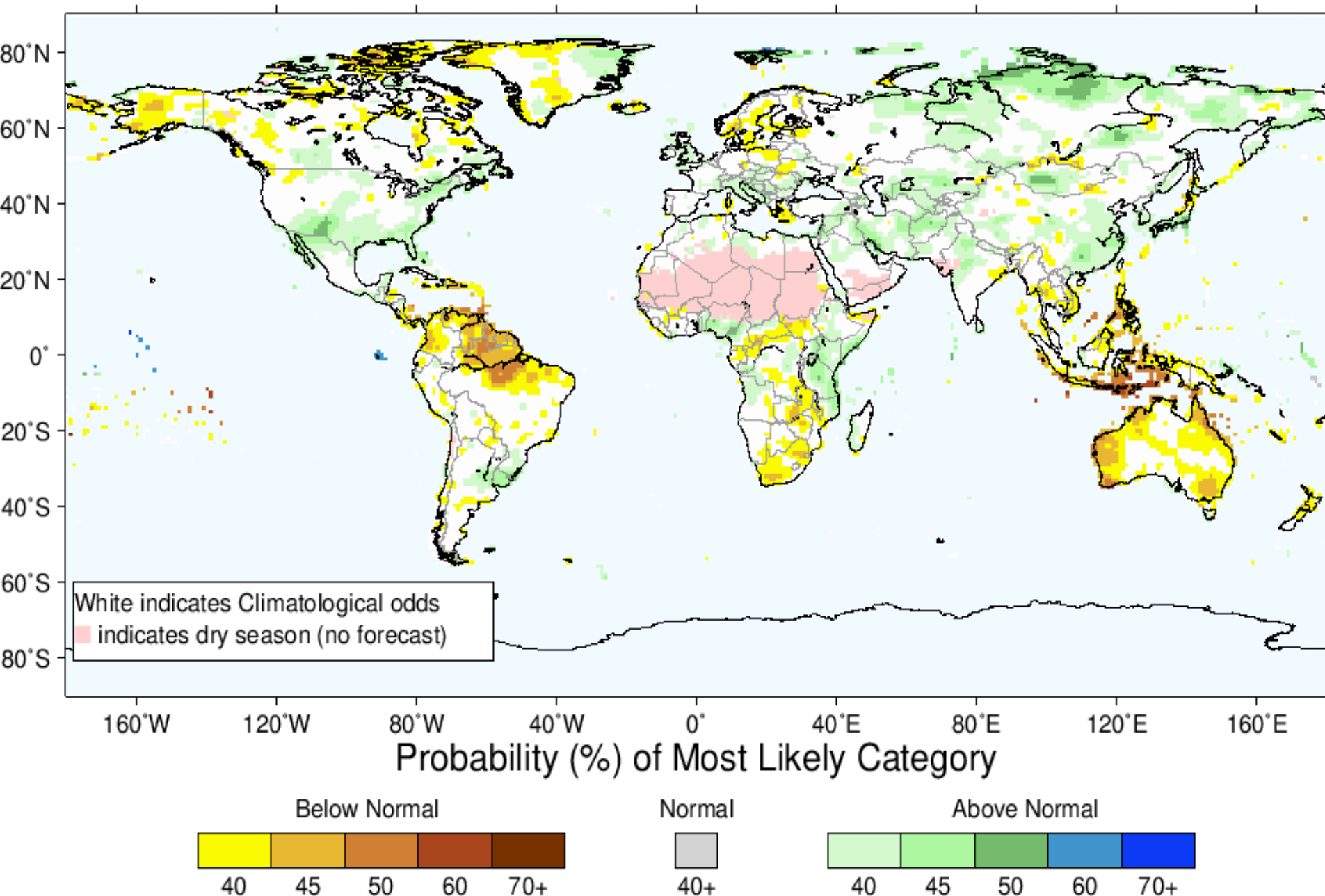
IRI Multi-Model Probability Forecast for Precipitation for September–October–November 2018, Issued July 2018



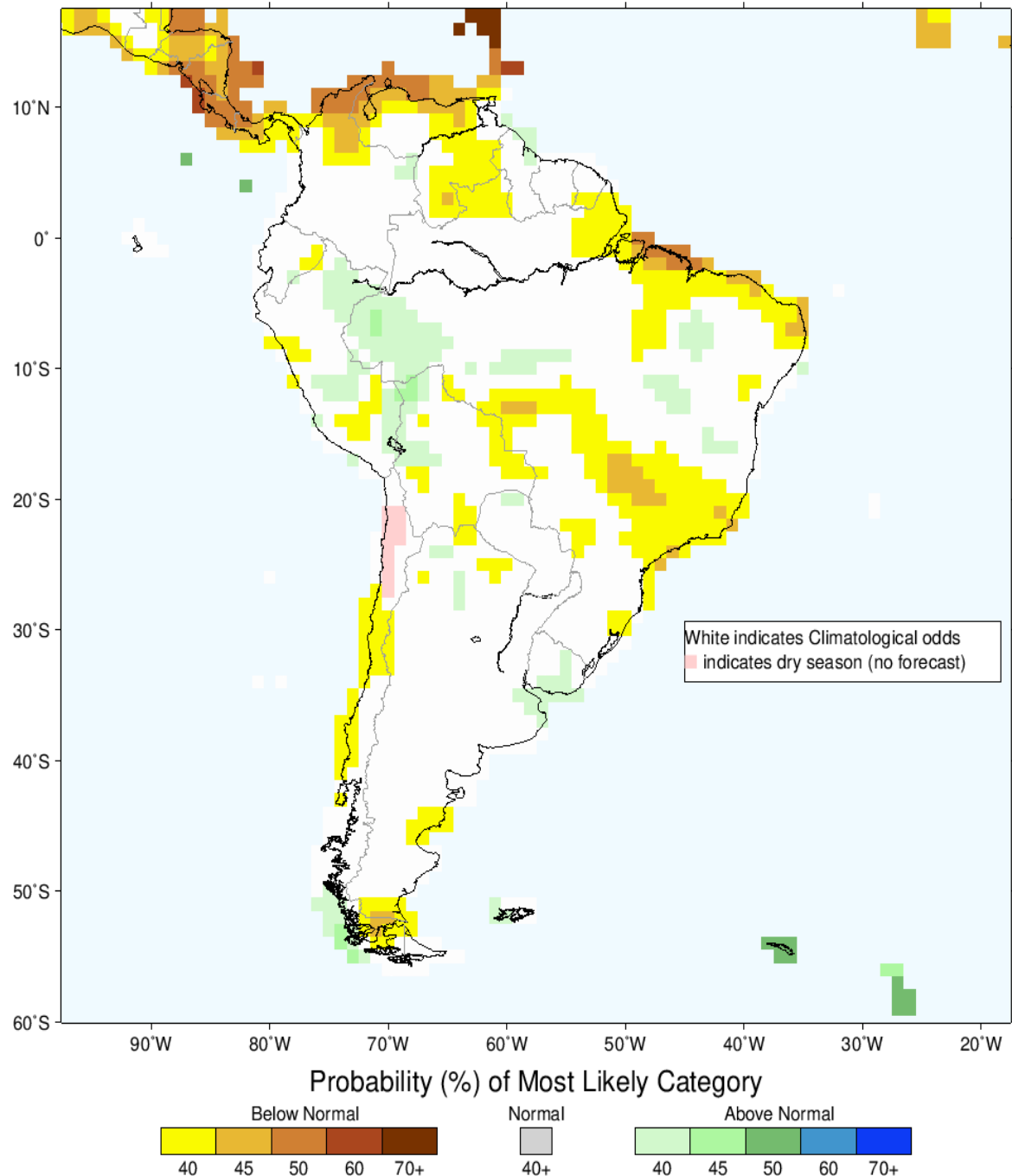
IRI Multi-Model Probability Forecast for Precipitation for October–November–December 2018, Issued July 2018



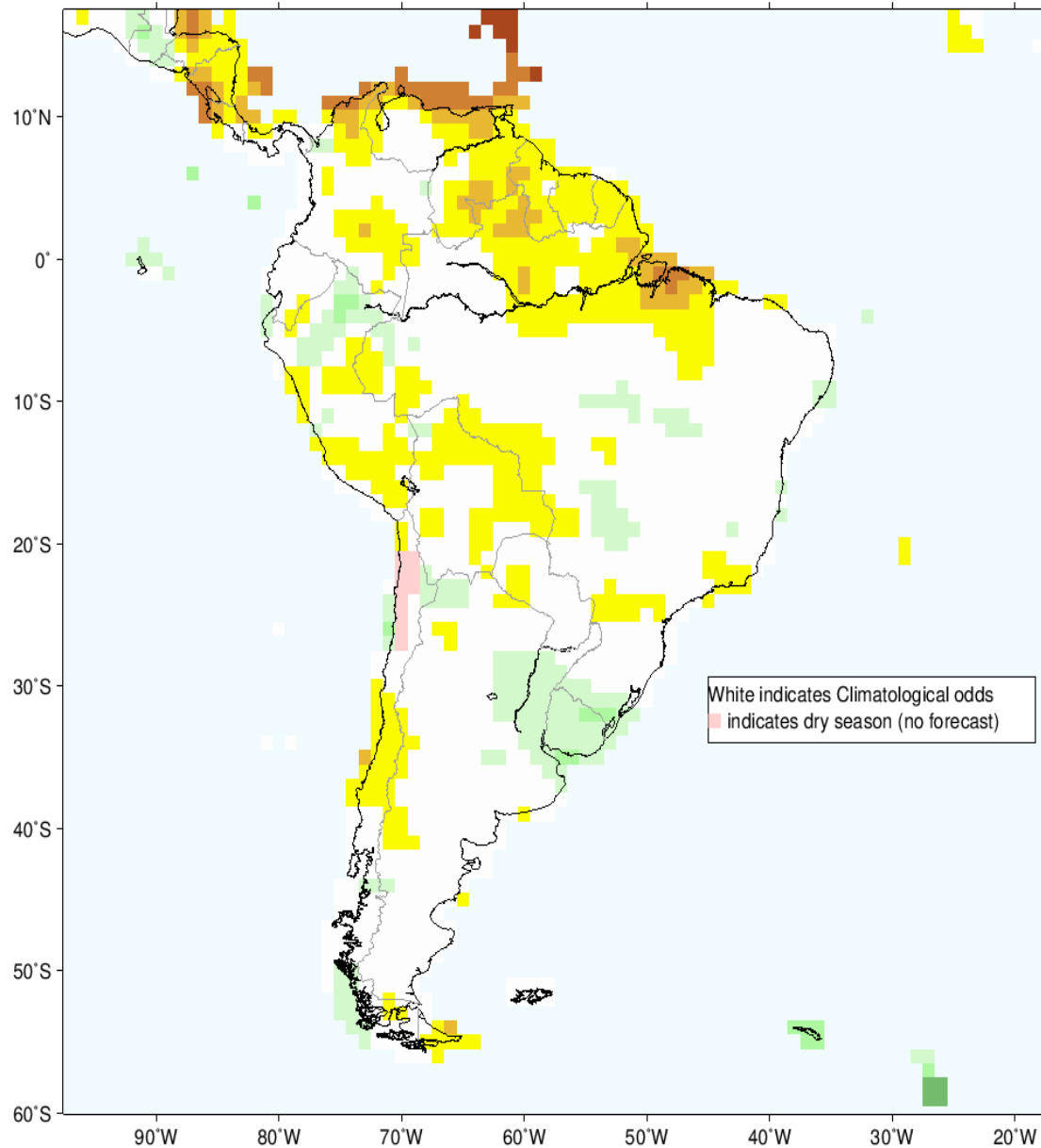
IRI Multi-Model Probability Forecast for Precipitation for November–December–January 2019, Issued July 2018



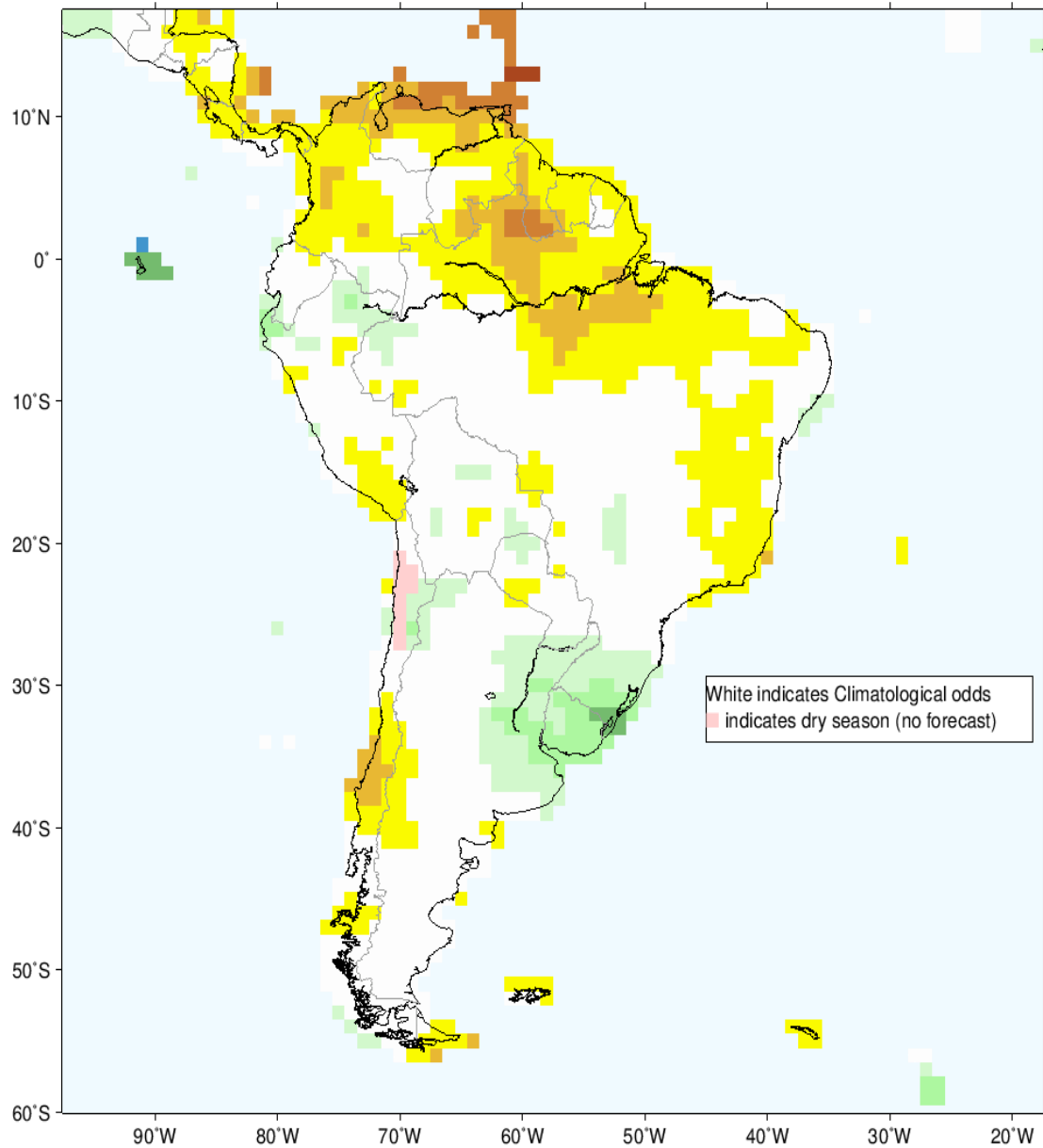
IRI Multi-Model Probability Forecast for Precipitation for
August–September–October 2018, Issued July 2018



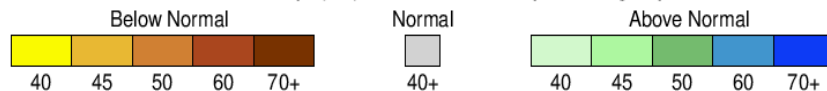
IRI Multi-Model Probability Forecast for Precipitation for
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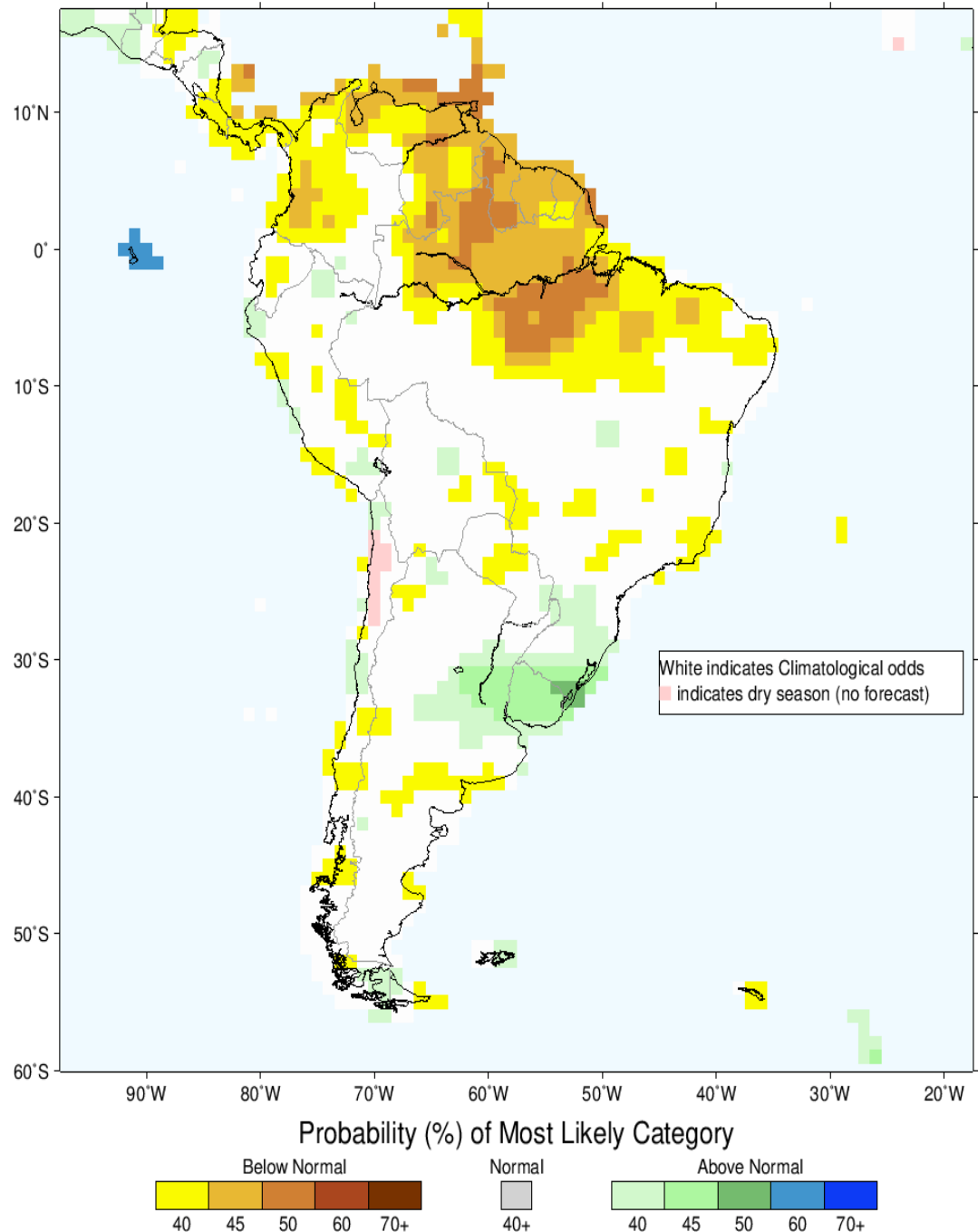
IRI Multi-Model Forecast for Precipitation for
October–November–December 2018, Issued July 2018



Probability (%) of Most Likely Category

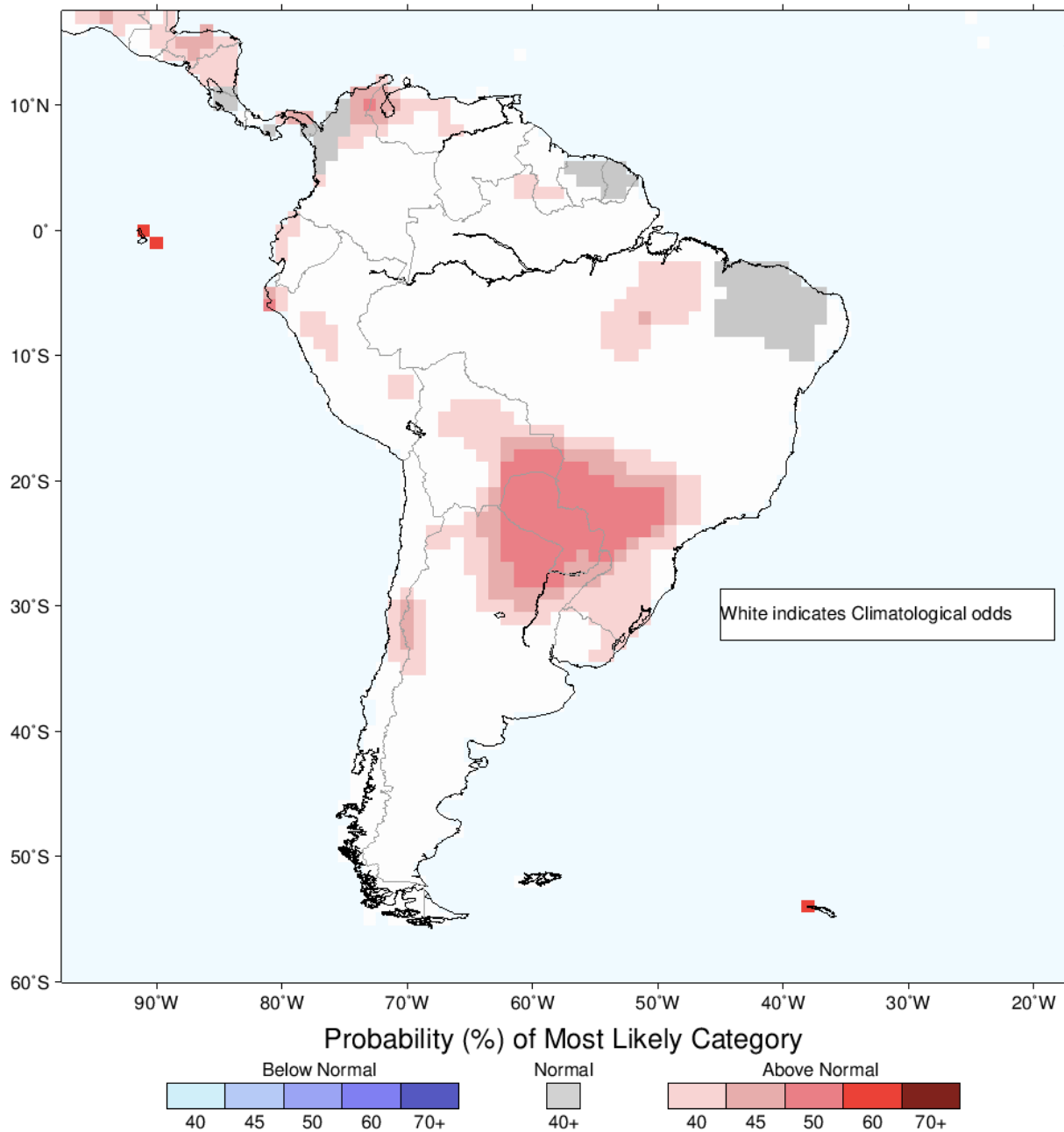


IRI Multi-Model Probability Forecast for Precipitation for
November–December–January 2019, Issued July 2018

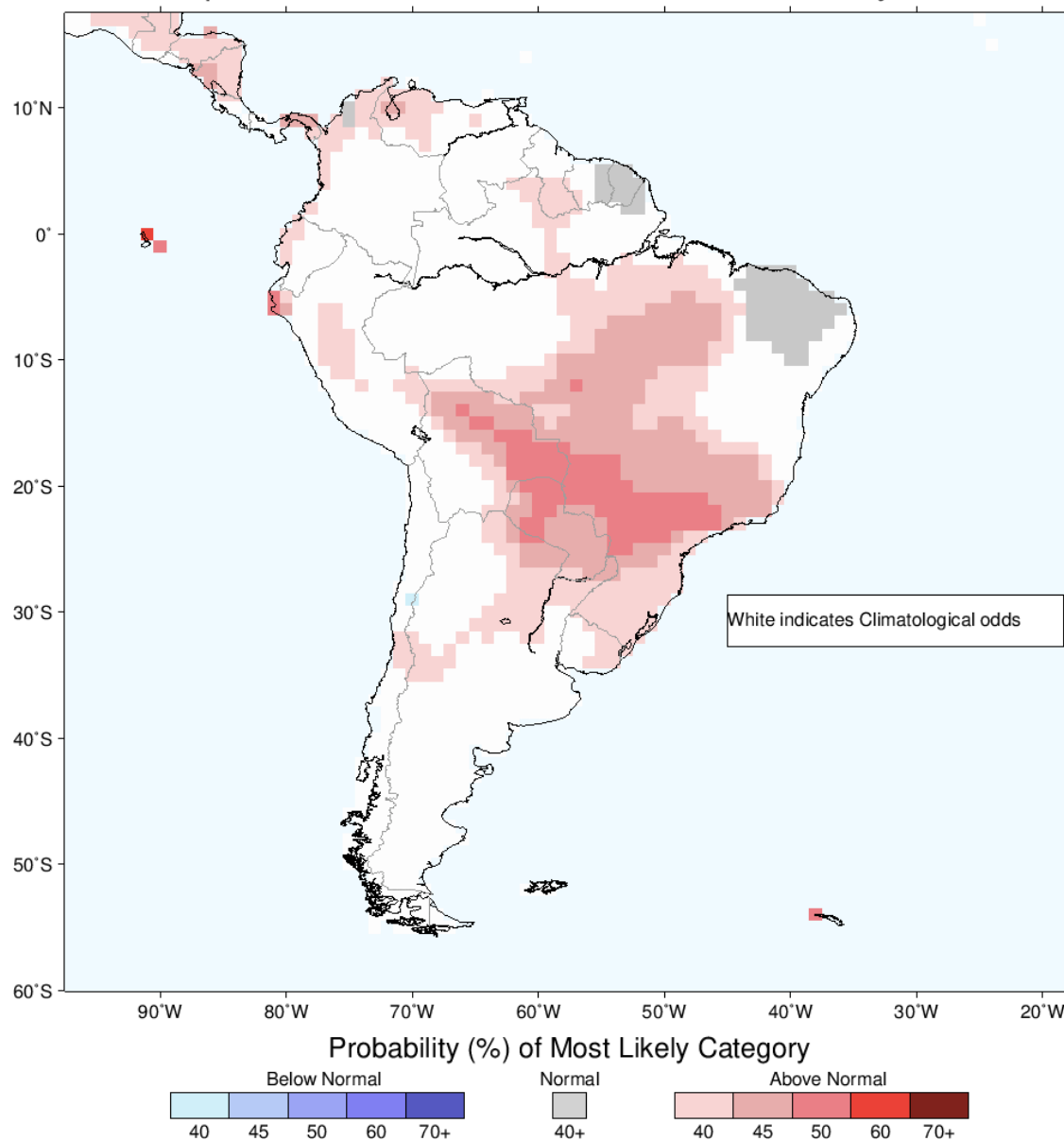


Cómo se comportarán las temperaturas?

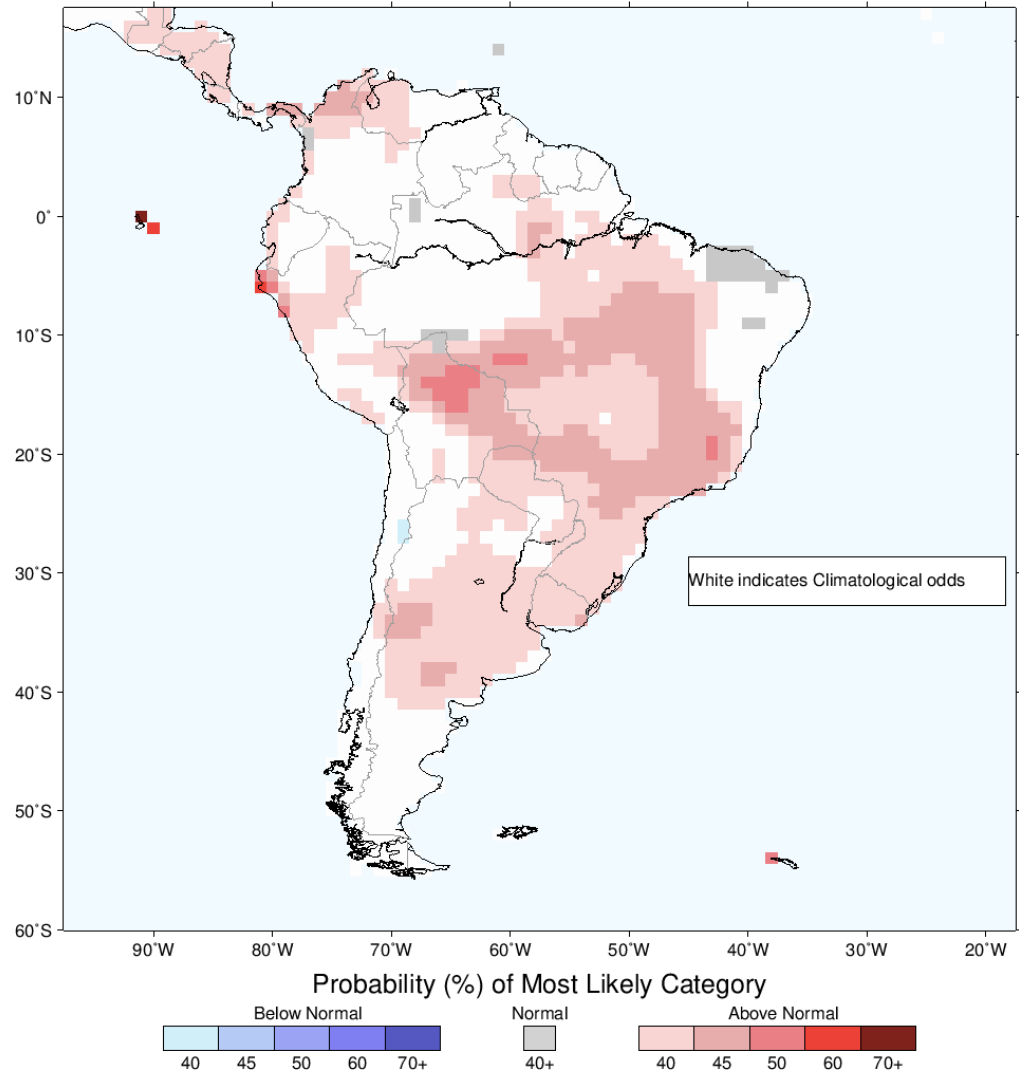
IRI Multi-Model Probability Forecast for Temperature for
August–September–October 2018, Issued July 2018



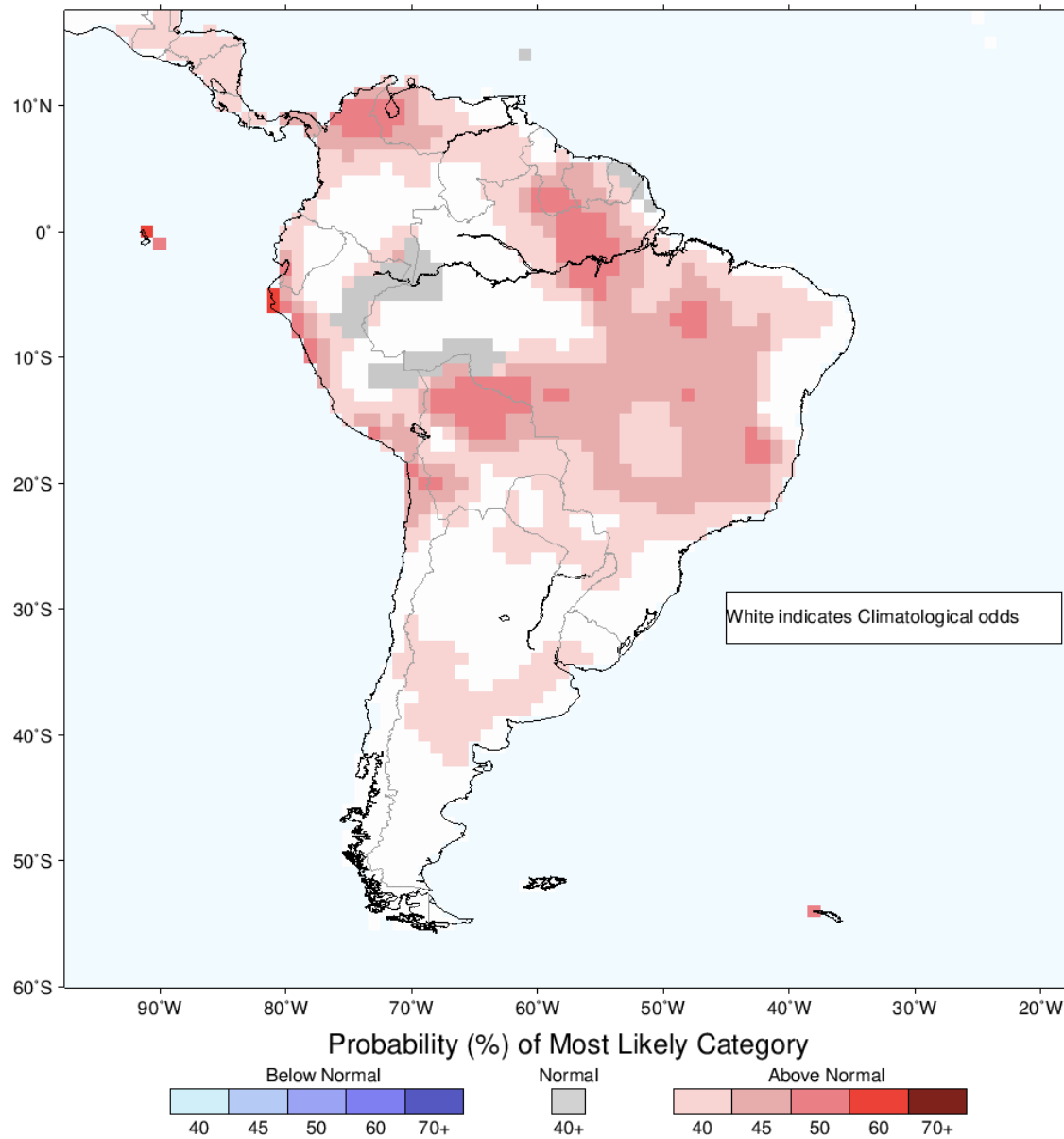
IRI Multi-Model Probability Forecast for Temperature for September–October–November 2018, Issued July 2018

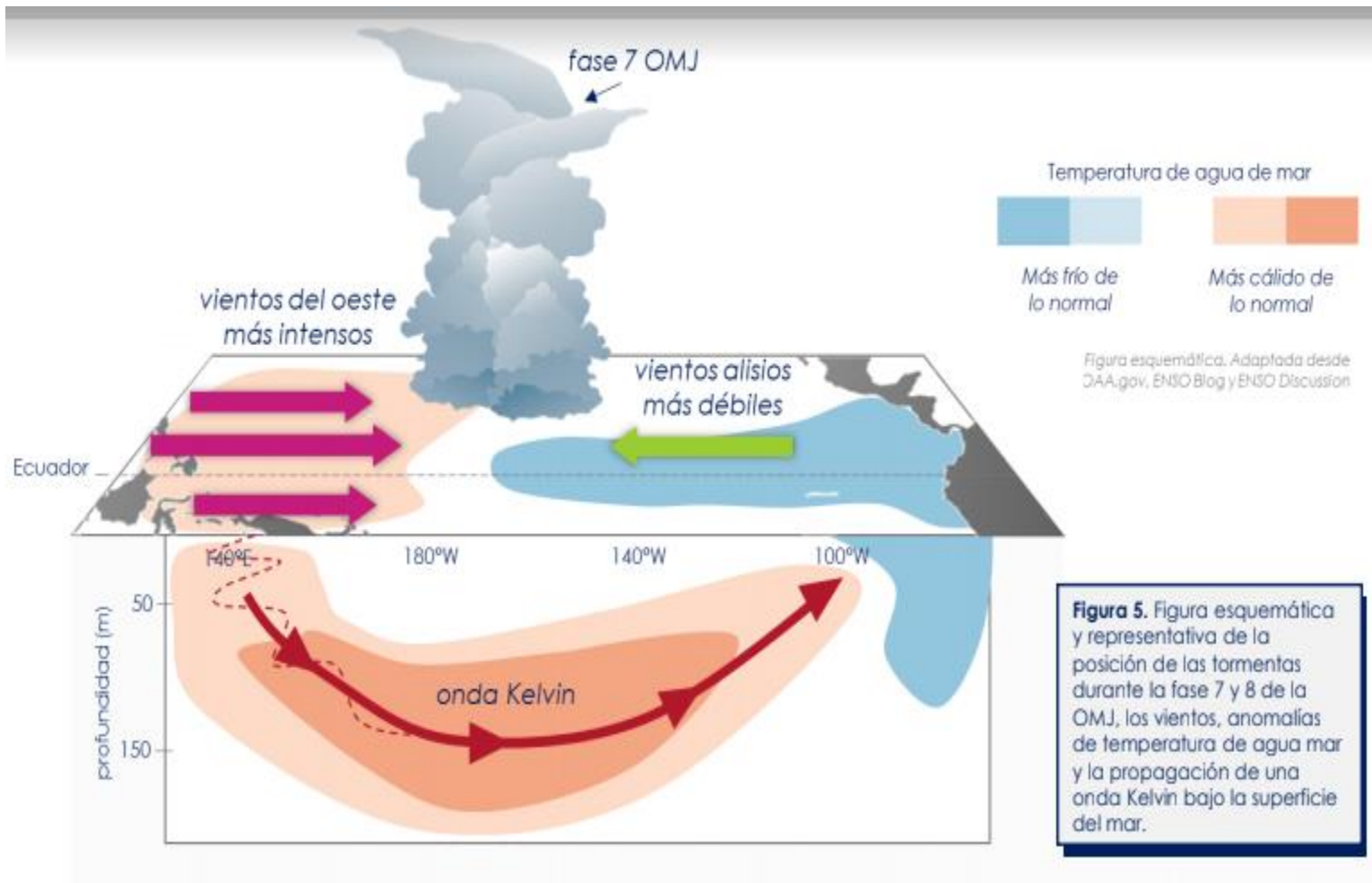


IRI Multi-Model Probability Forecast for Temperature for
October–November–December 2018, Issued July 2018

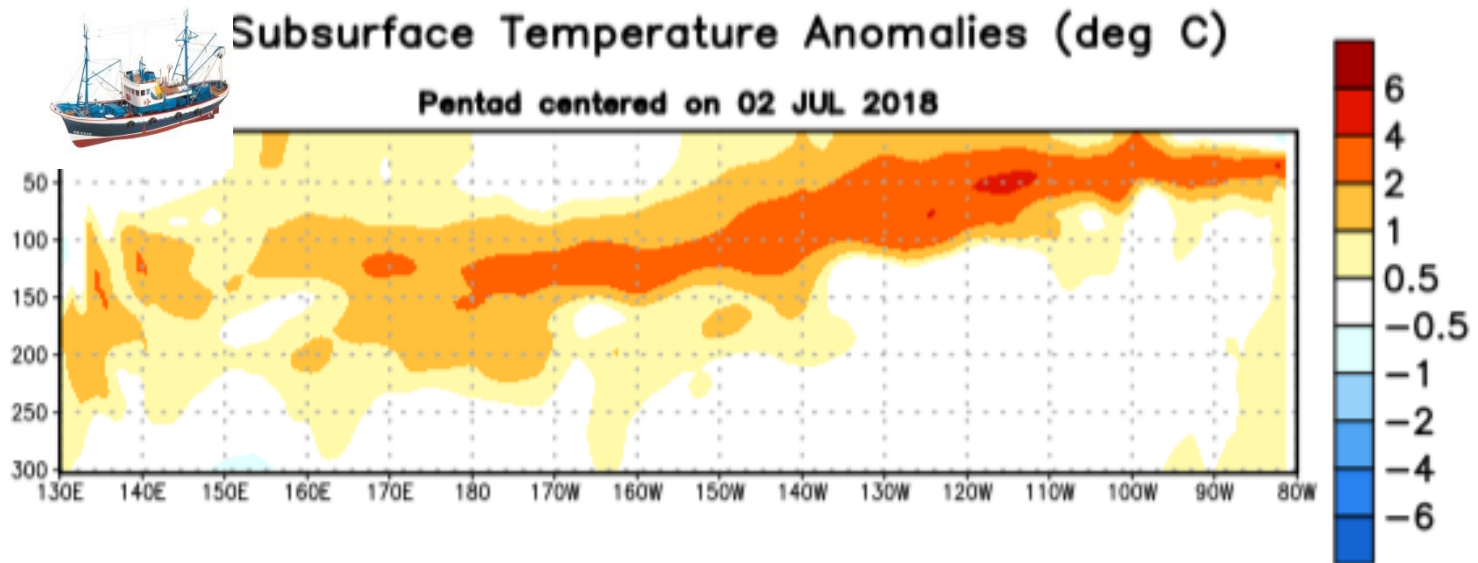
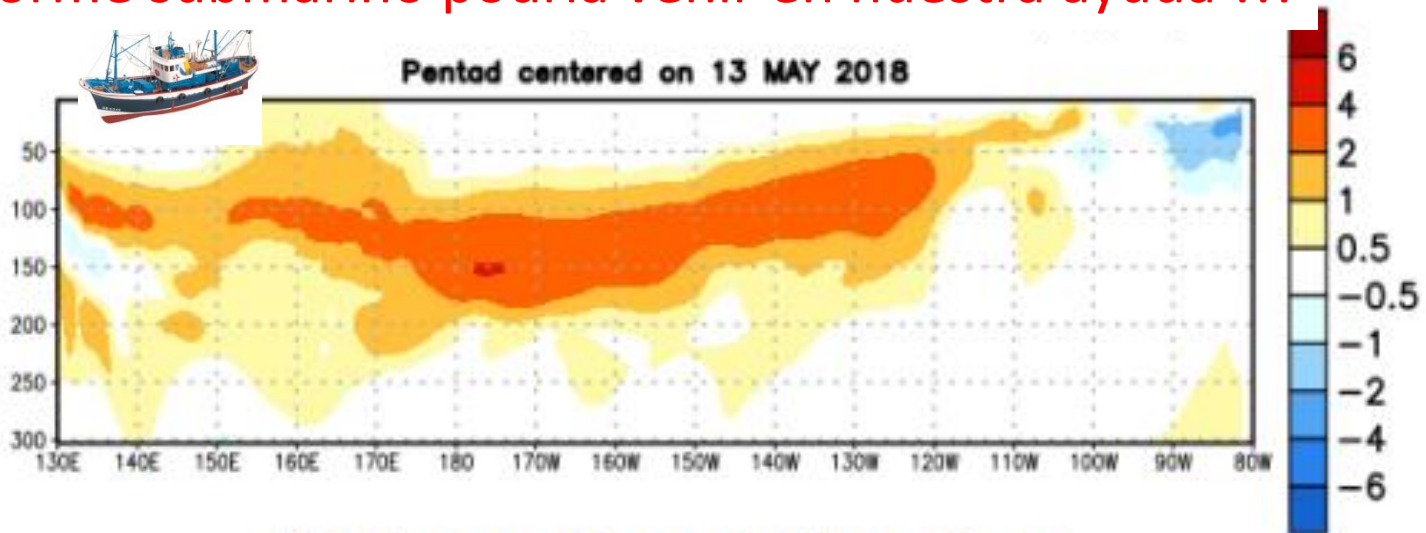


IRI Multi-Model Probability Forecast for Temperature for
November–December–January 2019, Issued July 2018





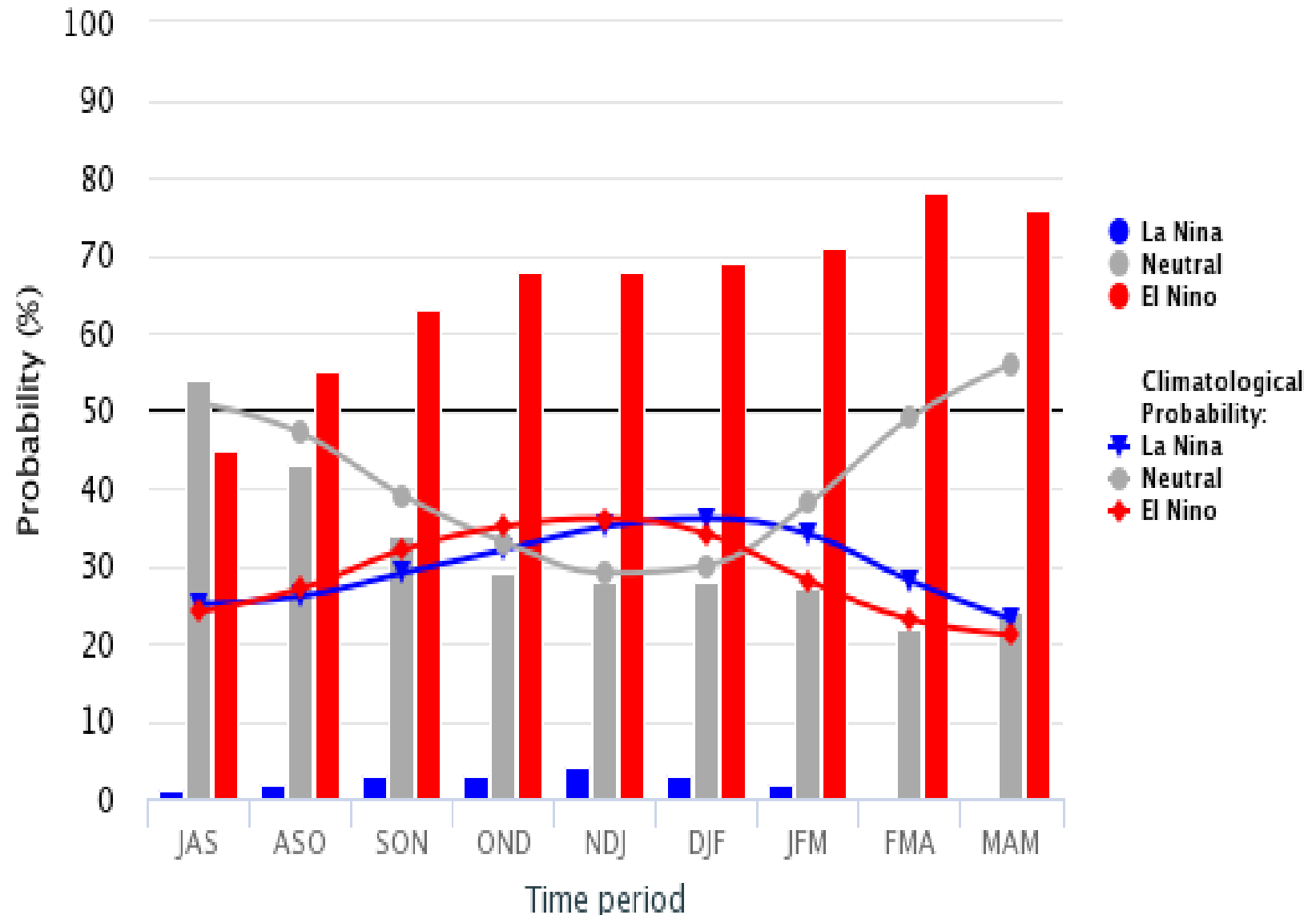
Un enorme submarino podría venir en nuestra ayuda !!!

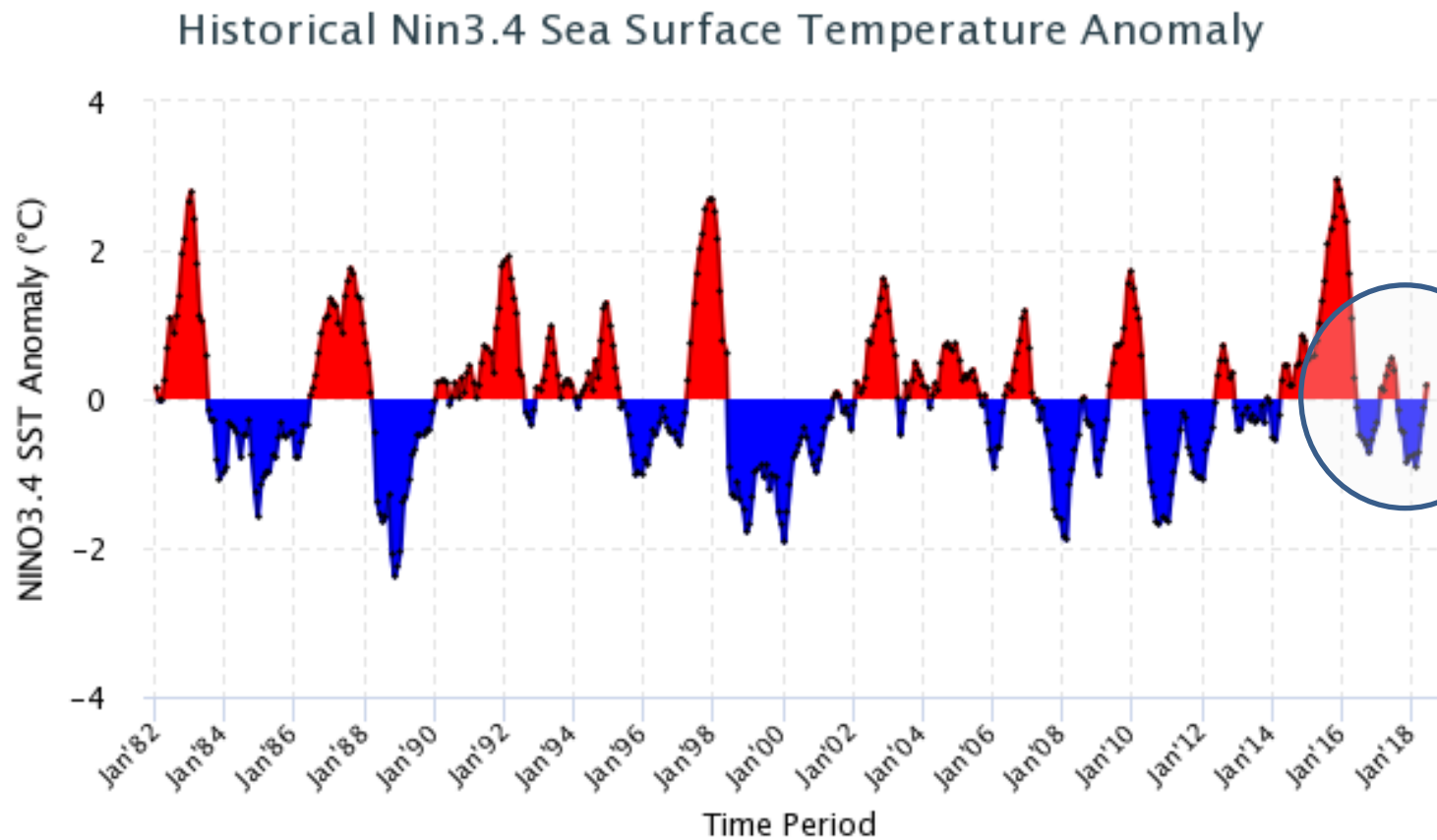


Mid-Jul IRI/CPC Model-Based Probabilistic ENSO Forecasts

ENSO state based on NINO3.4 SST Anomaly

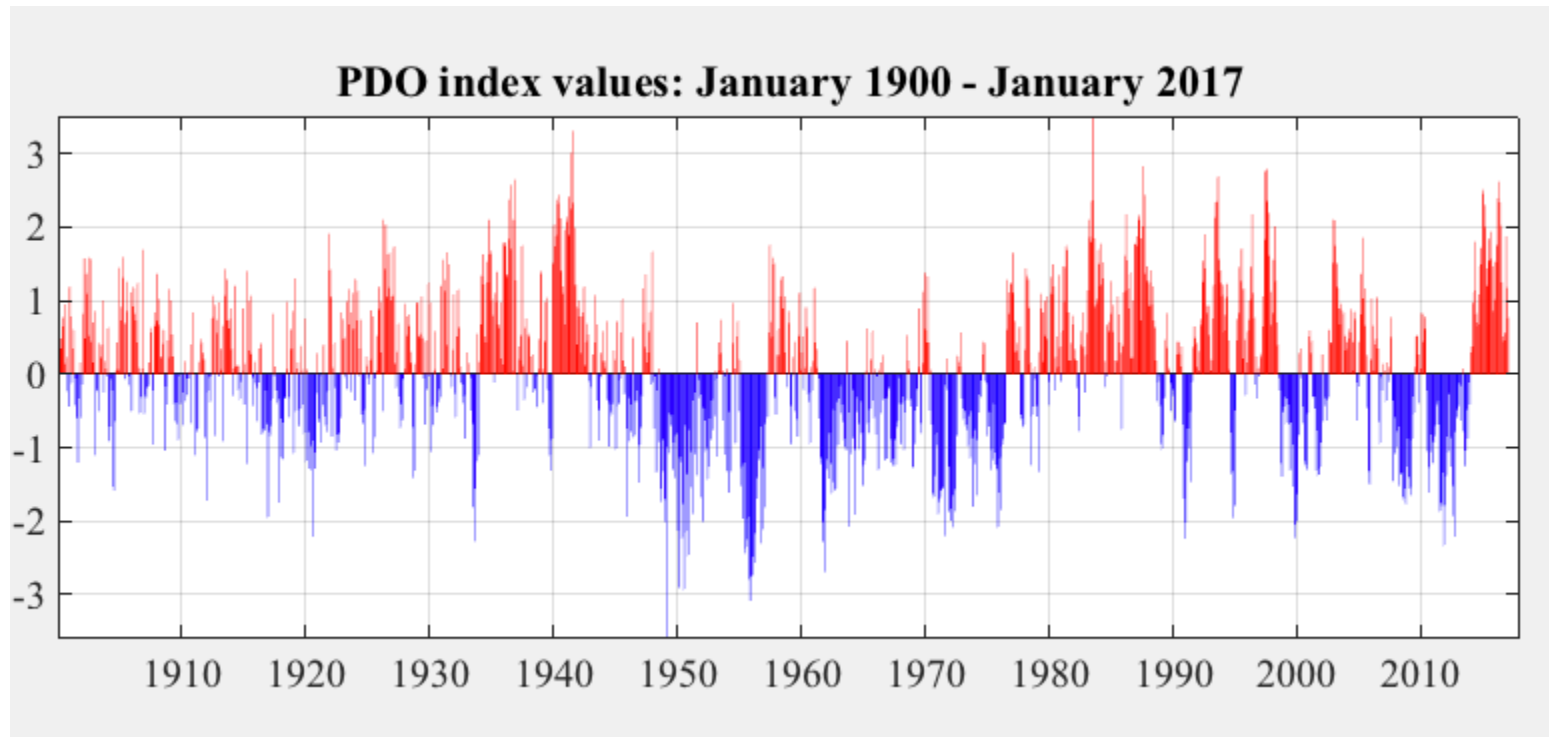
Neutral ENSO: -0.5°C to 0.5°C



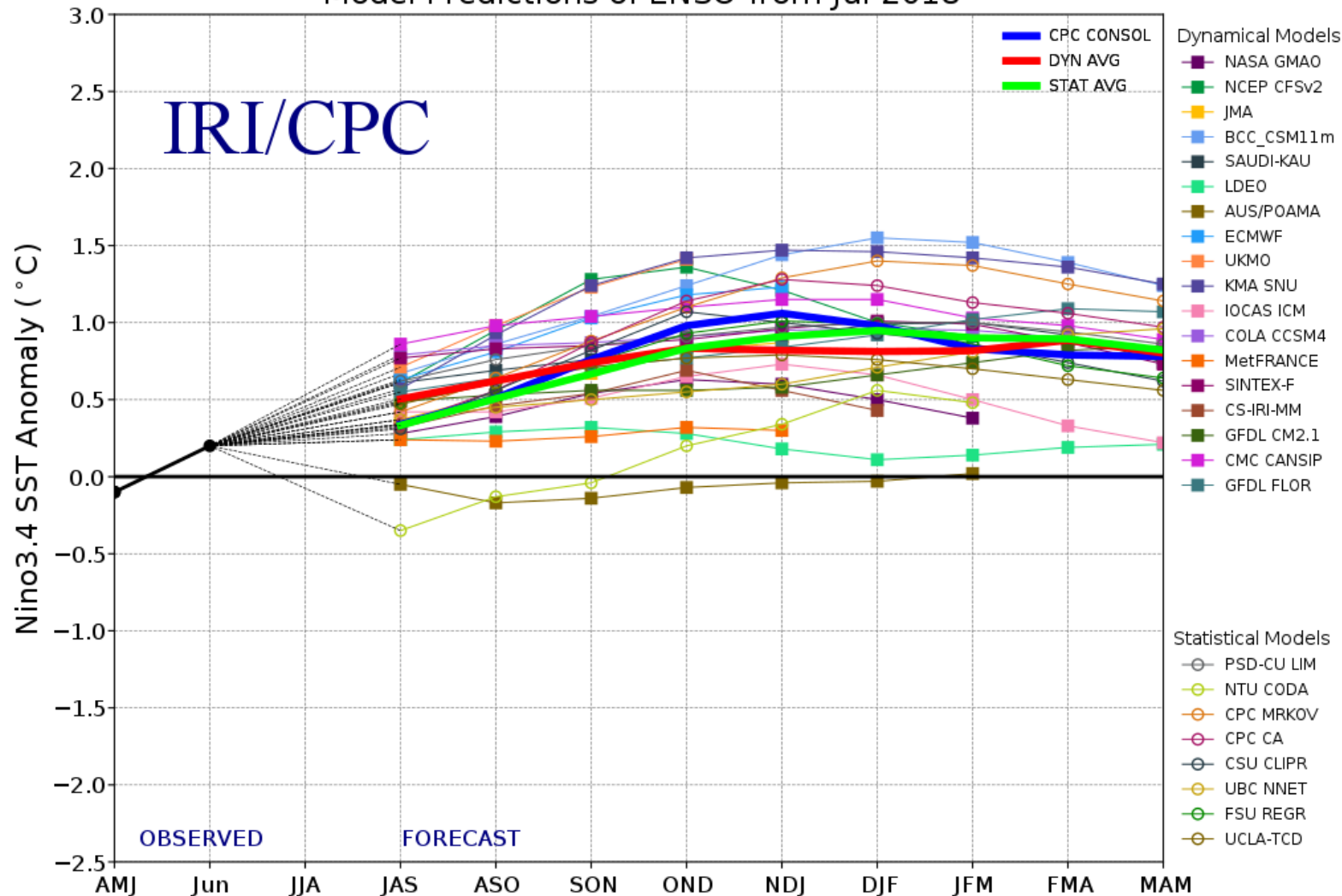


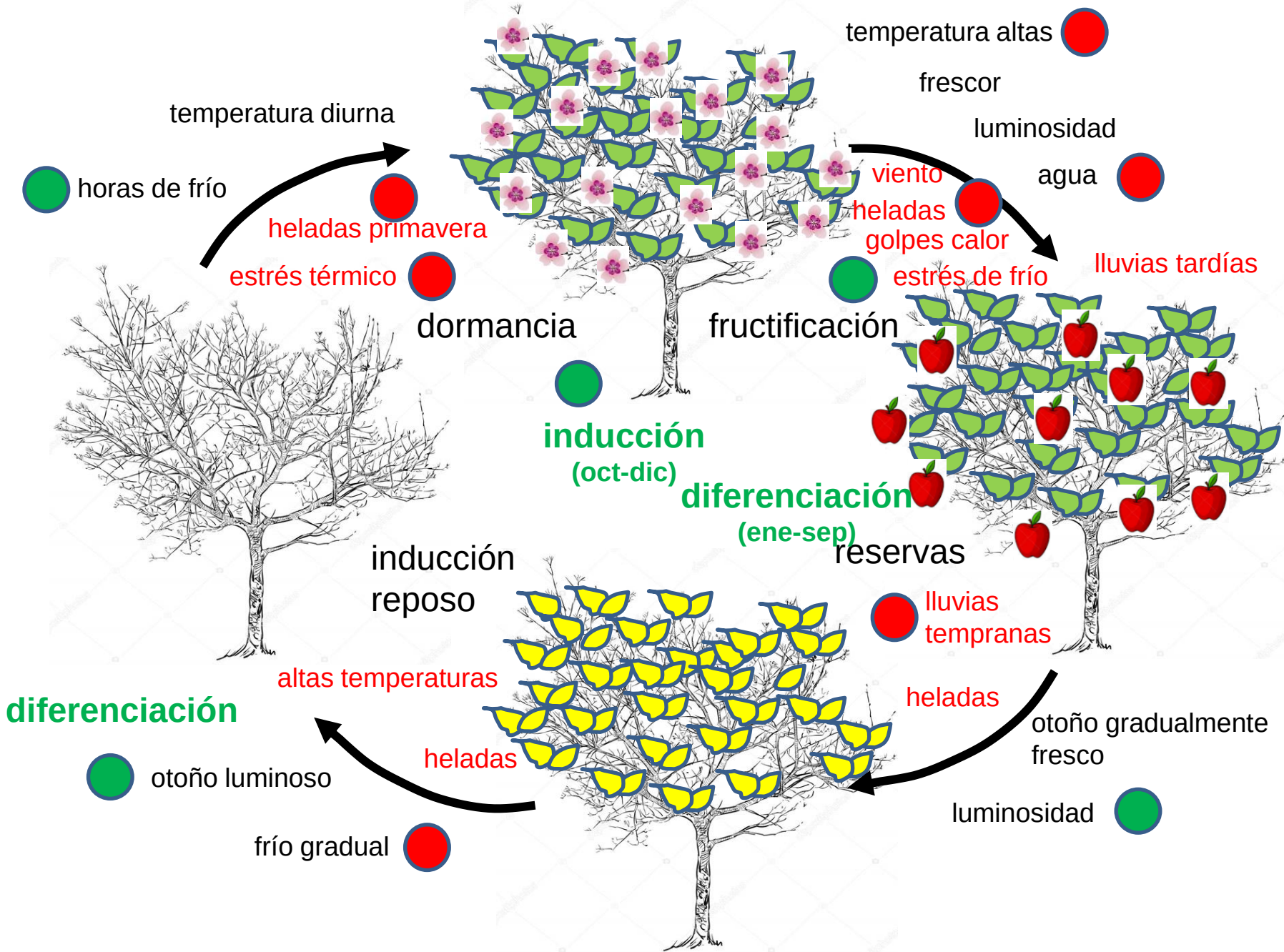
Todo indica que debiéramos ir hacia una fase cálida

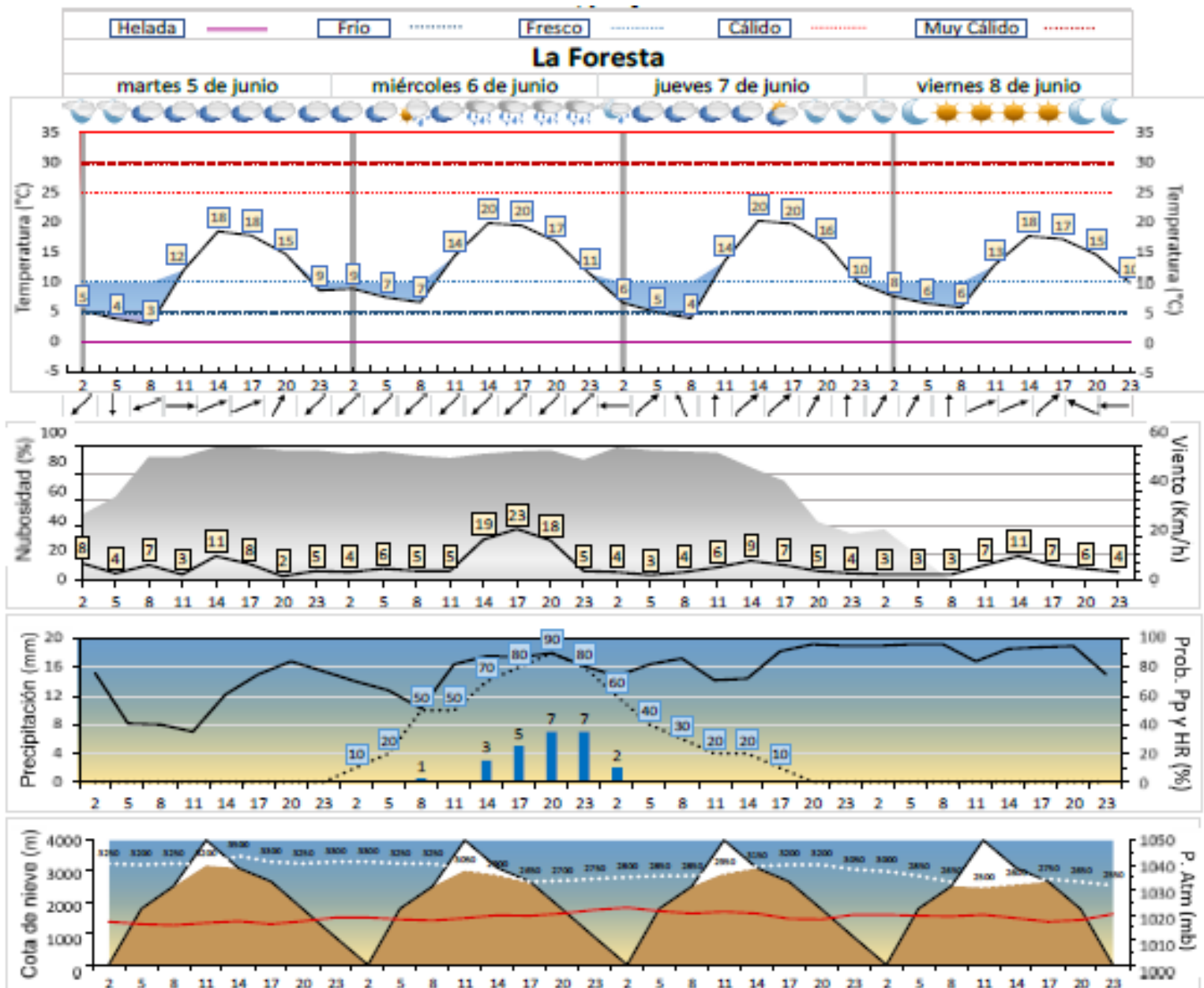
Cambio de la conducta de nuestros climas?



Model Predictions of ENSO from Jul 2018







SAAM-Sistema de Apoyo Agrometeorológico

Es bueno cada día echar una miradita a lo que nos trae el clima

Síntesis

La Niña llegó a su fin lo que queda de manifiesto por una normalización de las temperaturas de las aguas del Pacífico.

El bloqueo de los frentes por parte del anticiclón pareciera dar señales de debilitamiento

La AO ha ingresado en fase negativa, lo que quiere decir que los frentes se están generando más cerca del extremo austral.

Las aguas del Pacífico permanecerán en fase neutra por todo el invierno, con alguna posibilidad de pasar a una fase positiva hacia el verano.

Las lluvias debieran tender a normalizarse

La primavera podría traer algunos ciclos de calor

Tras lluvias tardías podrían venir pulsos de aire frío de corta duración pero peligrosos

<https://iri.columbia.edu/our-expertise/climate/forecasts/seasonal-climate-forecasts/>