

PERSPECTIVAS CLIMATICAS

Mayo – Julio 2018

Hidrometeorología

Centro Nacional de Estudios
Atmosféricos, Oceanográficos y Sísmicos
(CENAOS)

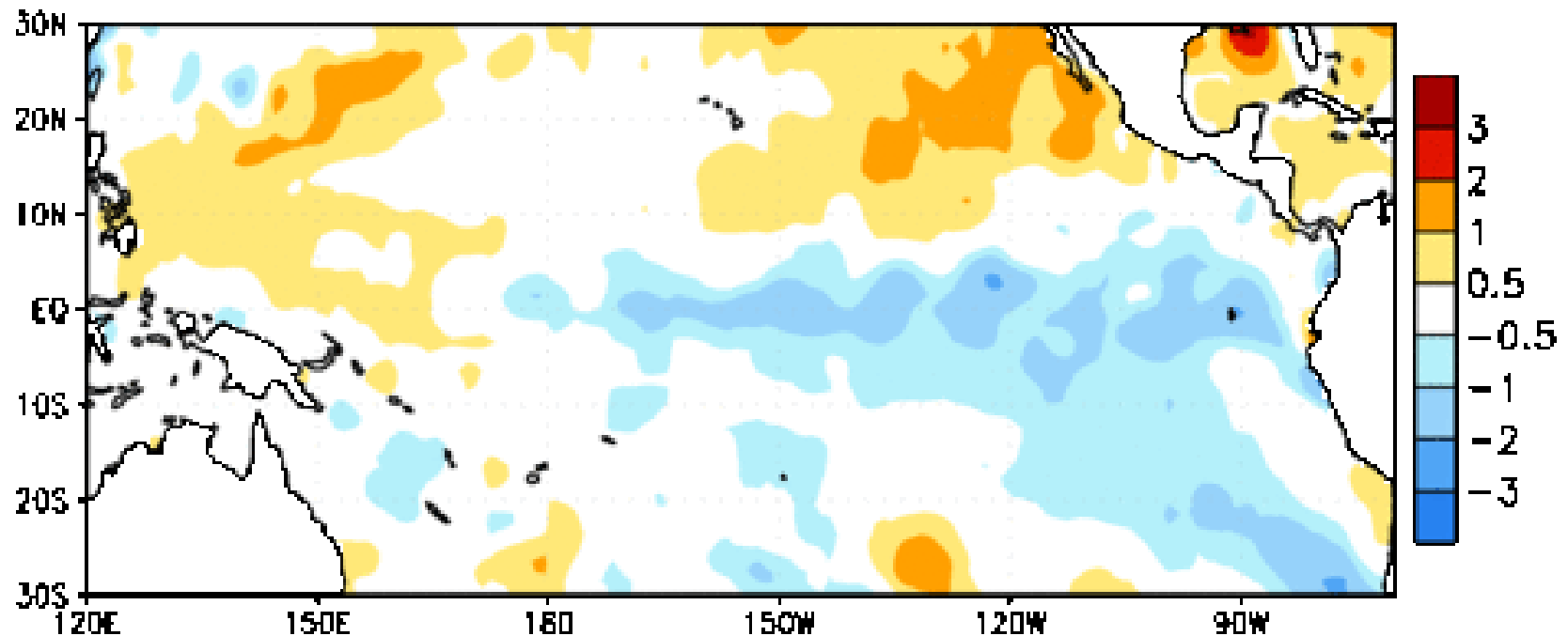


EL fenómeno de EL Niño

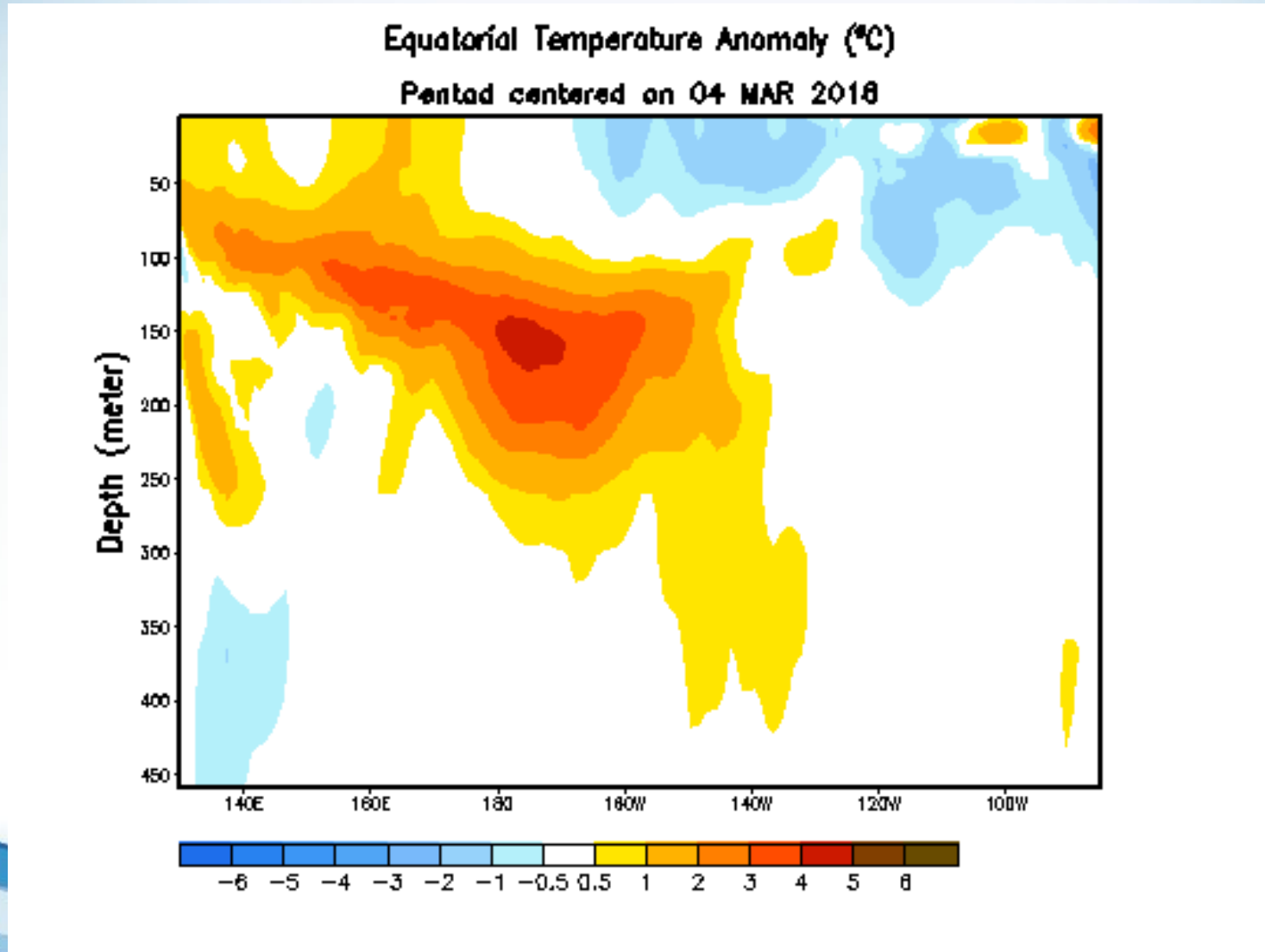
Explicado

Condiciones de la Temp. del Mar Océano Pacífico ecuatorial

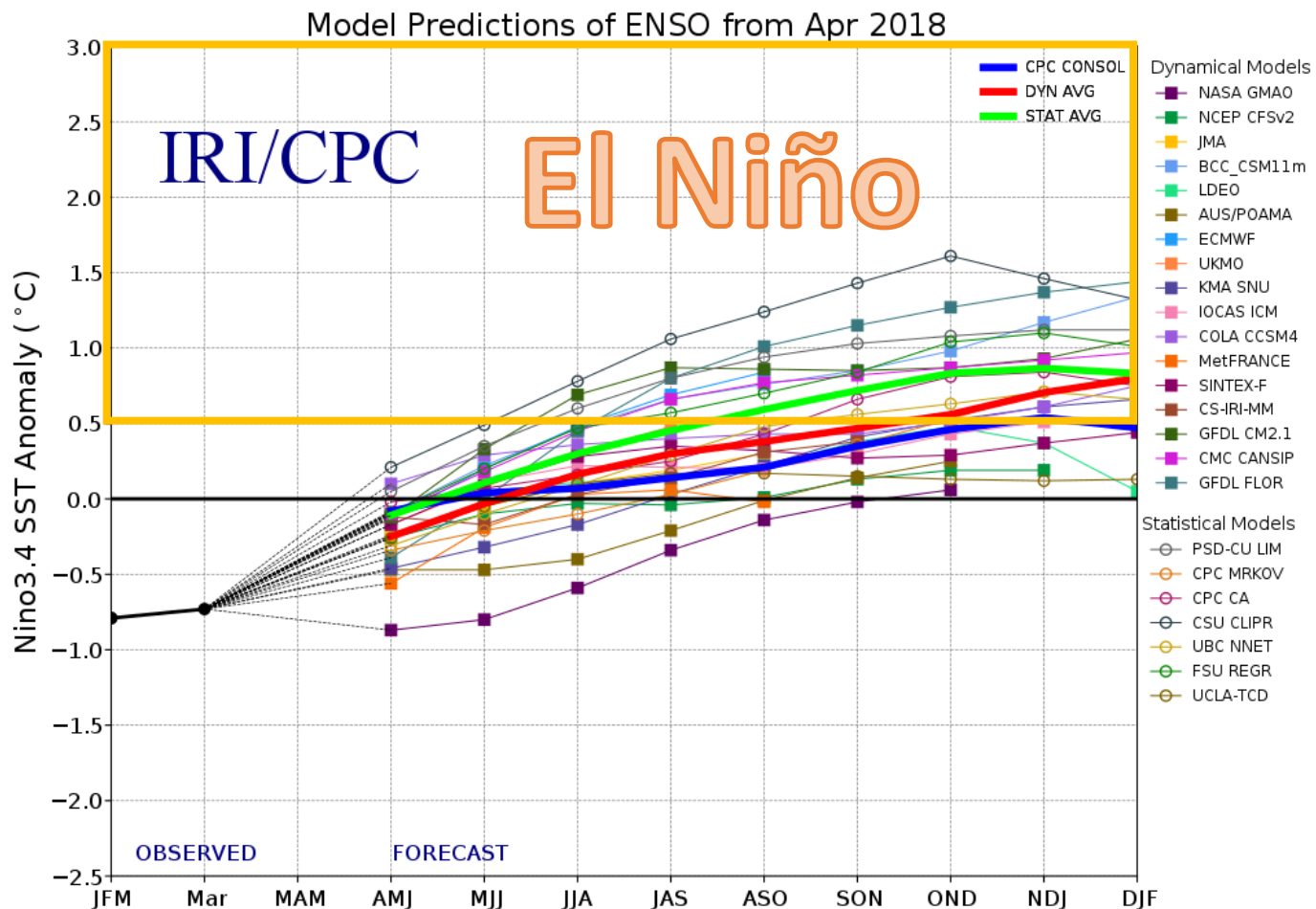
Week centered on 14 FEB 2018
SST Anomalies (°C)



Condiciones de la Temp. del Mar Océano Pacífico ecuatorial



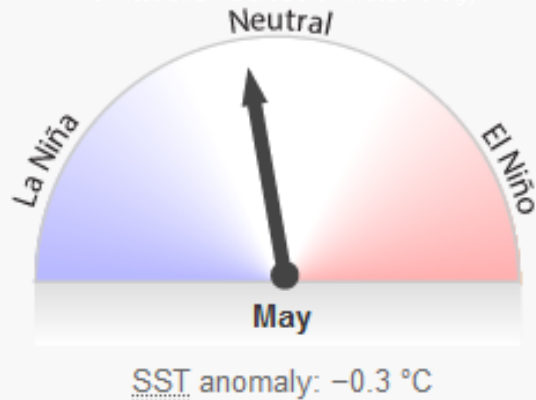
Pronóstico de El Niño 2018



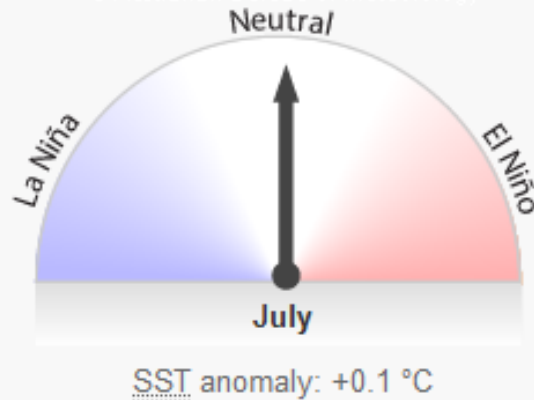
Pronóstico de El Niño próximos meses

Average of international model outlooks for NINO3.4

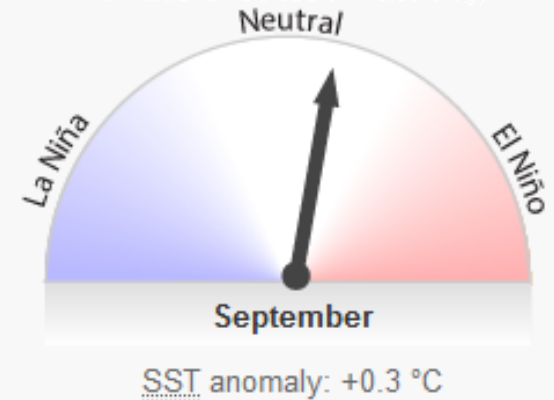
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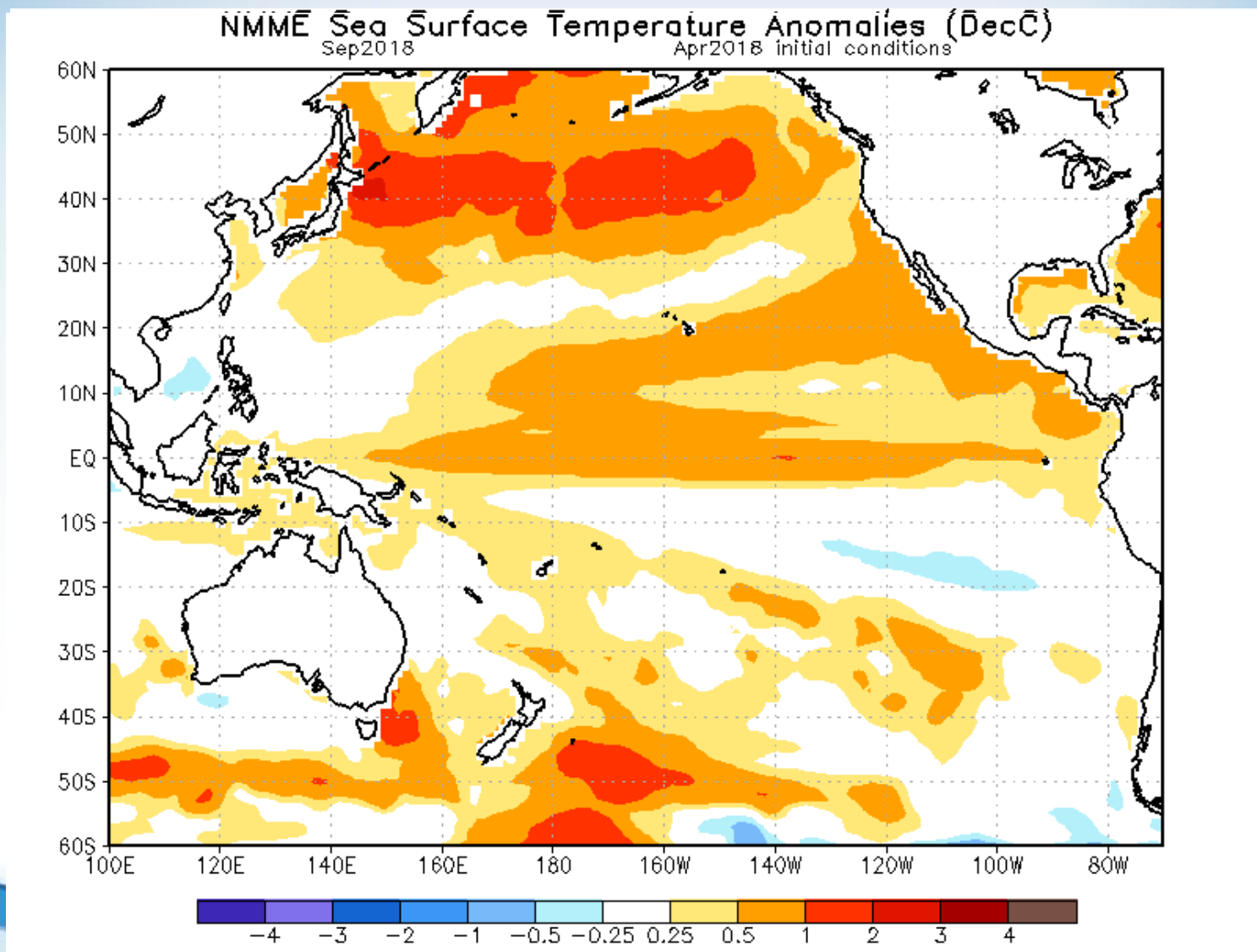
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Pronóstico de Temp. Superficial O. Pacifico May-Sept



Pronóstico de Temp. Superficial O. Pacifico May-Sept

ECMWF Seasonal Forecast

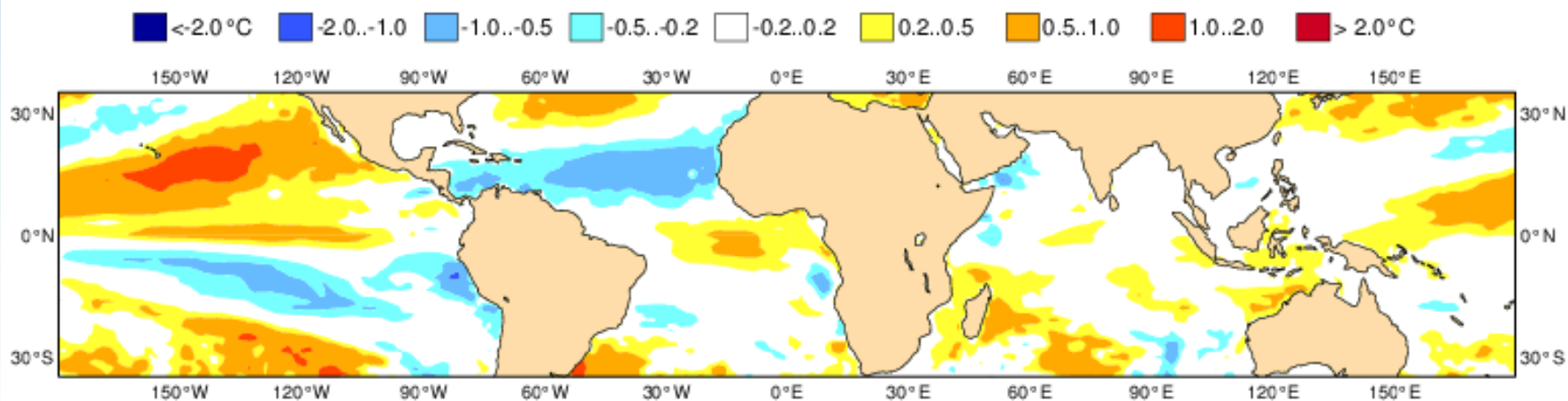
Mean forecast SST anomaly

Forecast start is 01/05/18, climate period is 1993-2016

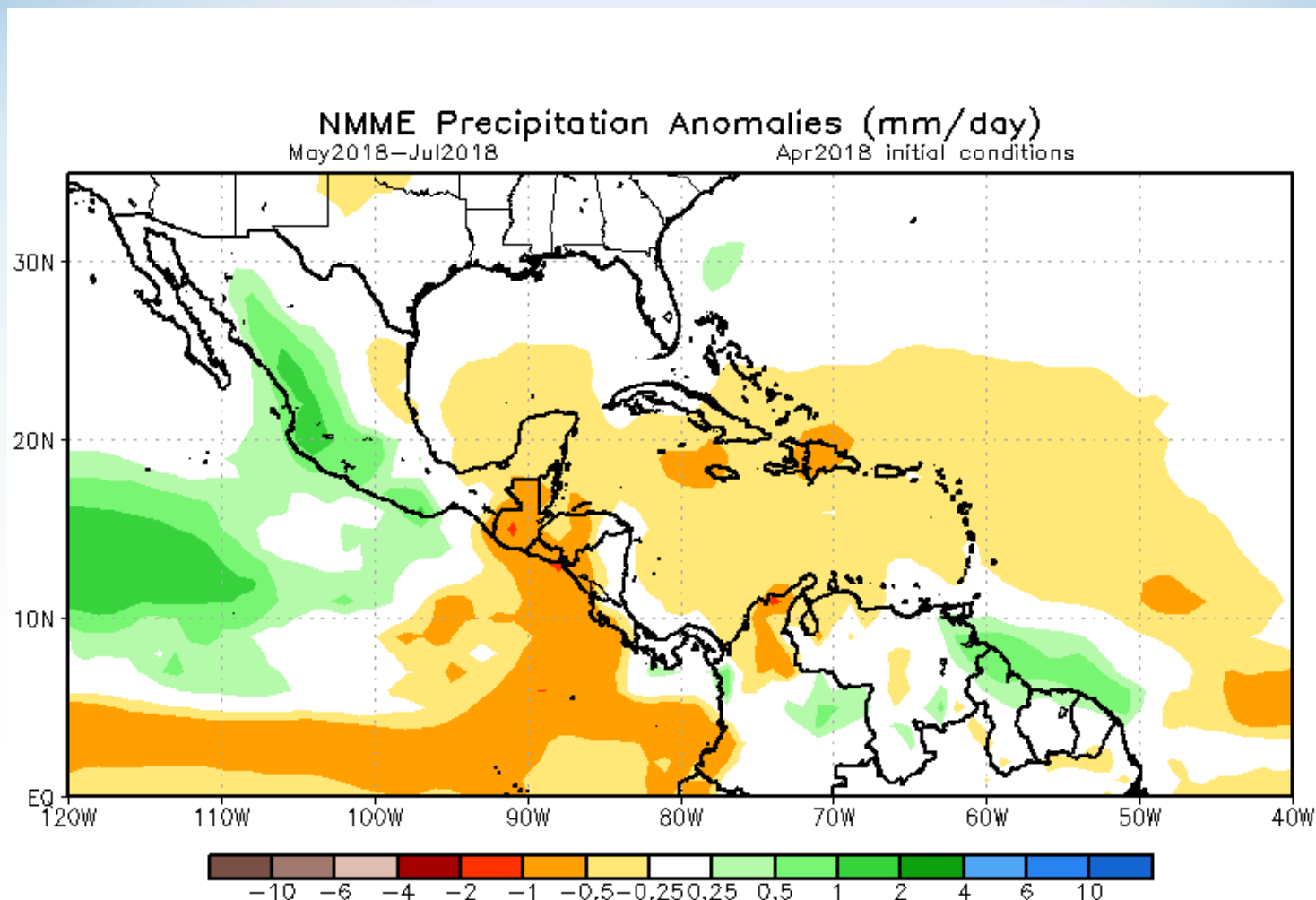
Ensemble size = 51, climate size = 600

System 5

JJA 2018



Pronóstico de luvias de Mayo a Sept. (promedio de 6 modelos de Norteamérica)



Pronóstico Modelo Europeo Iluvia Mayo a Julio 2018

ECMWF Seasonal Forecast

Mean precipitation anomaly

Forecast start is 01/05/18, climate period is 1993-2016

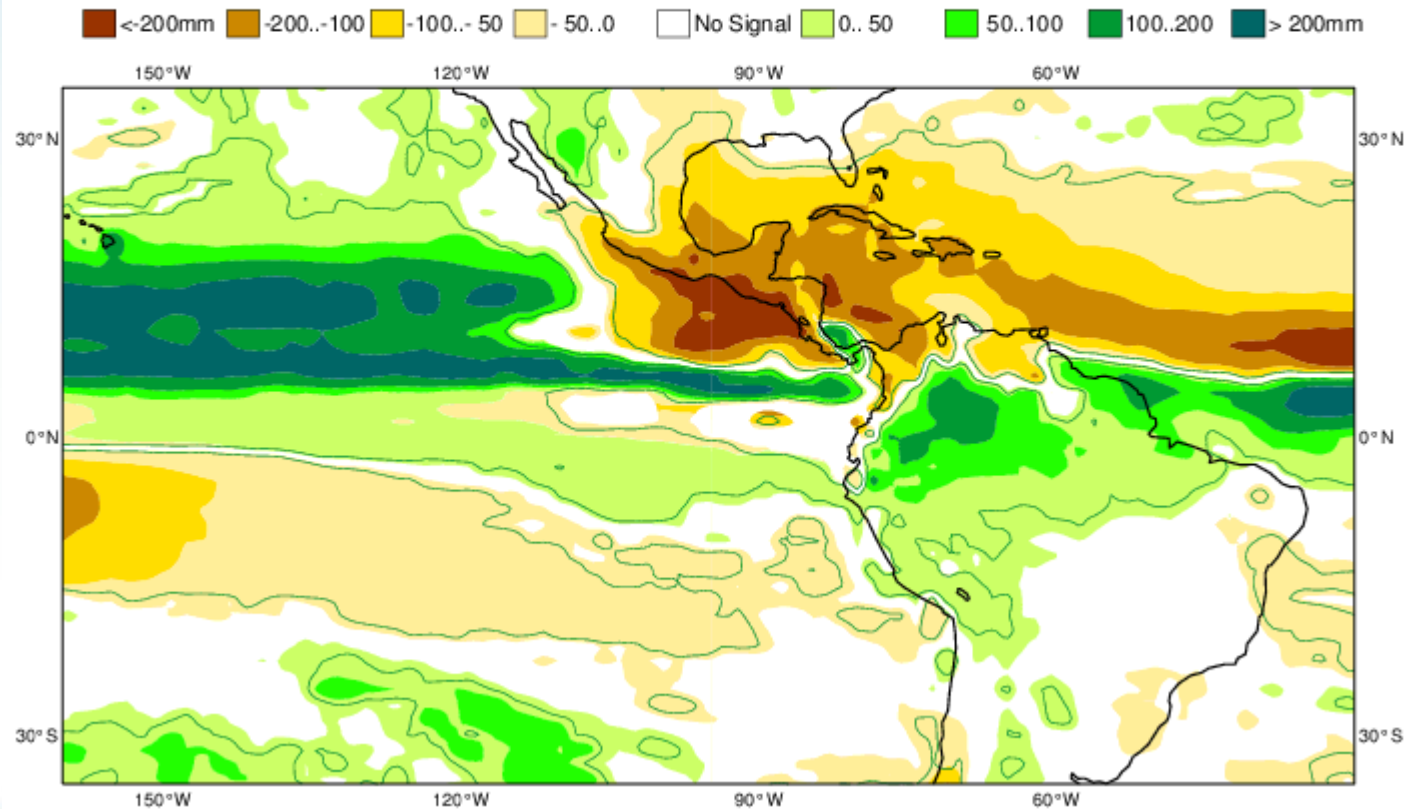
Ensemble size = 51, climate size = 600

System 5

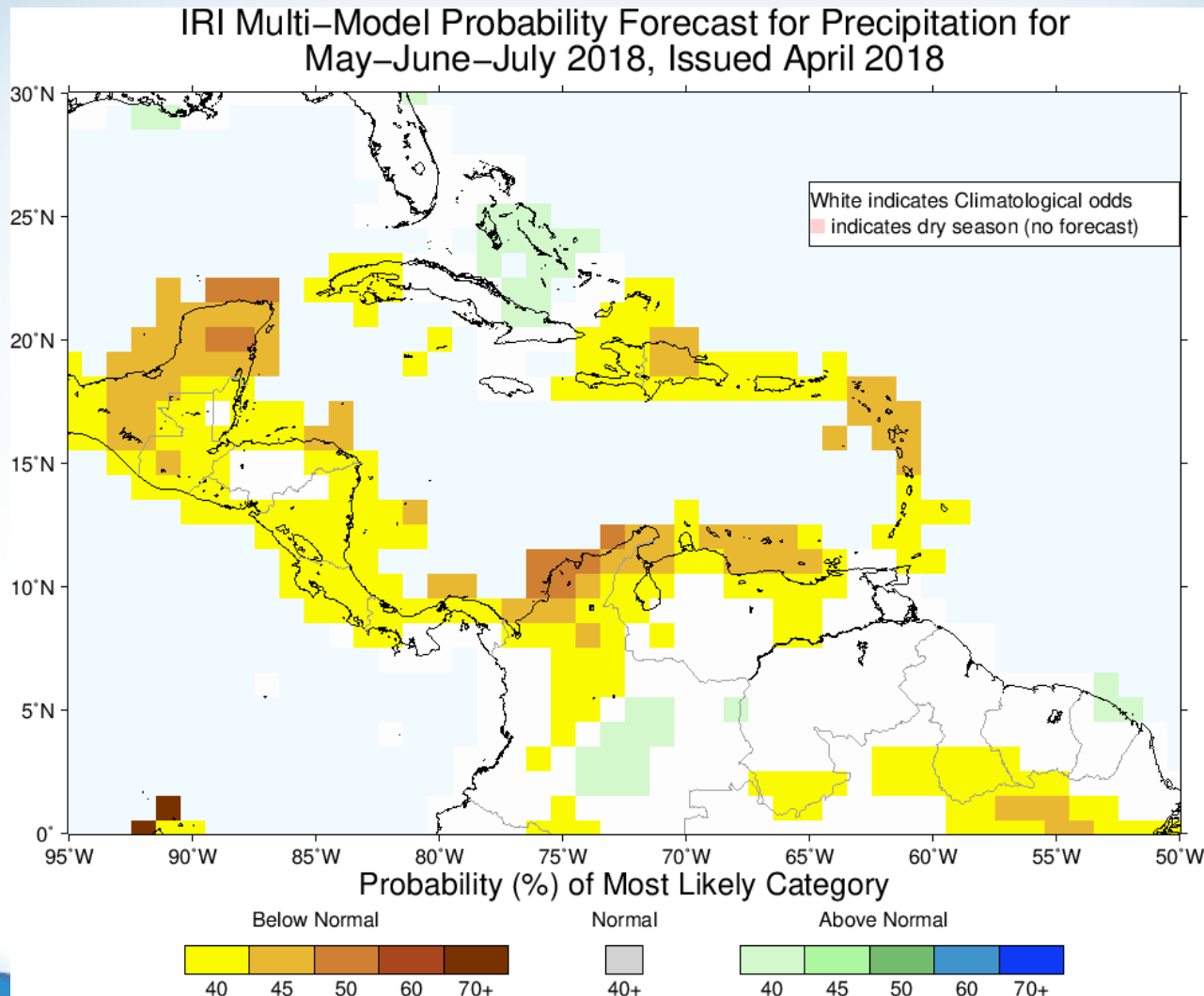
JJA 2018

Shaded areas significant at 10% level

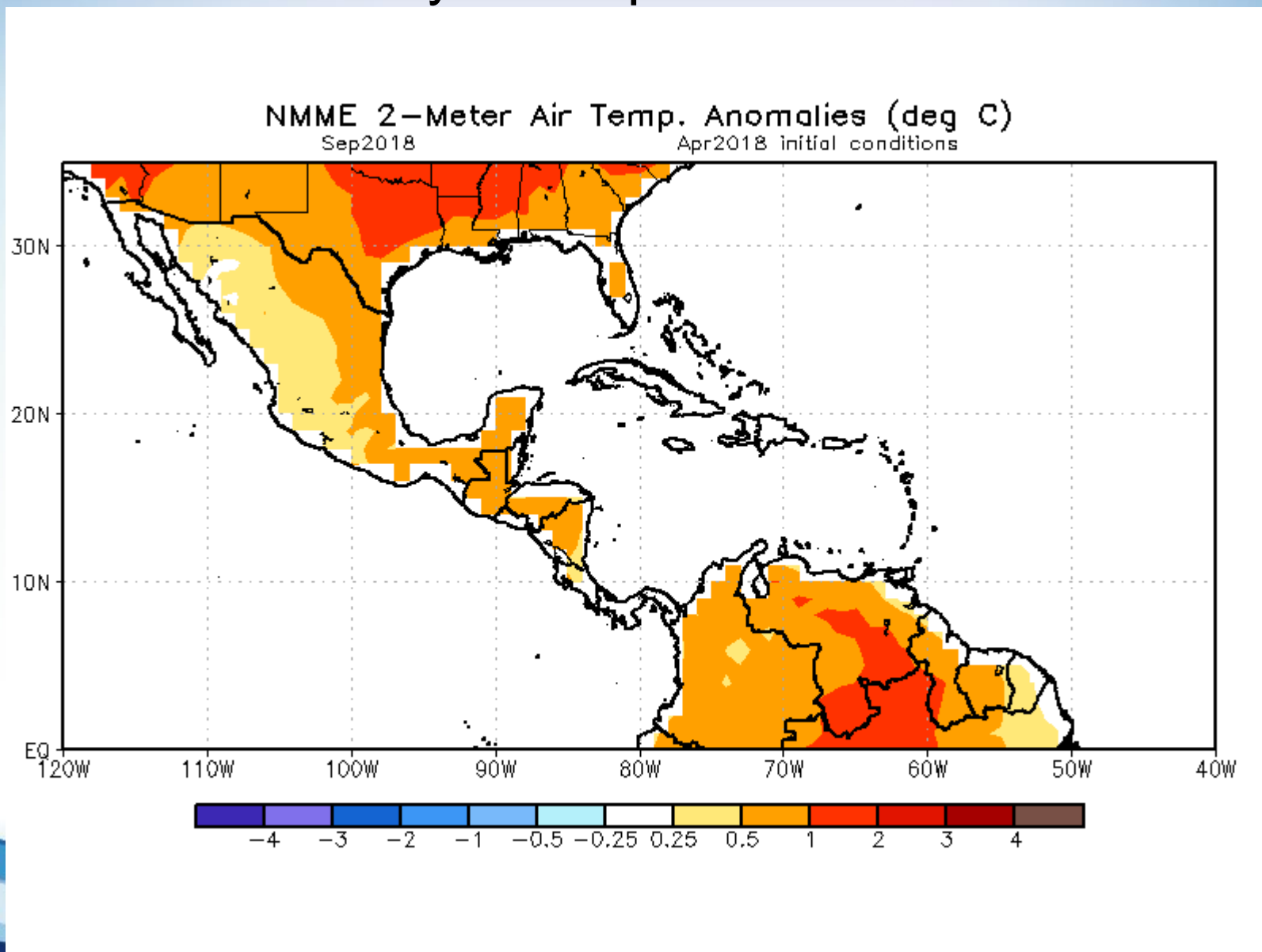
Solid contour at 1% level



Pronóstico lluvia Instituto de Investigación Internacional (IRI) Mayo a Julio 2018



Pronóstico temperatura modelos norteamericanos Mayo a Sept. 2018



Pronóstico temperatura Modelo Europeo ECMWF Mayo a Julio 2018

ECMWF Seasonal Forecast

Mean 2m temperature anomaly

Forecast start is 01/05/18, climate period is 1993-2016

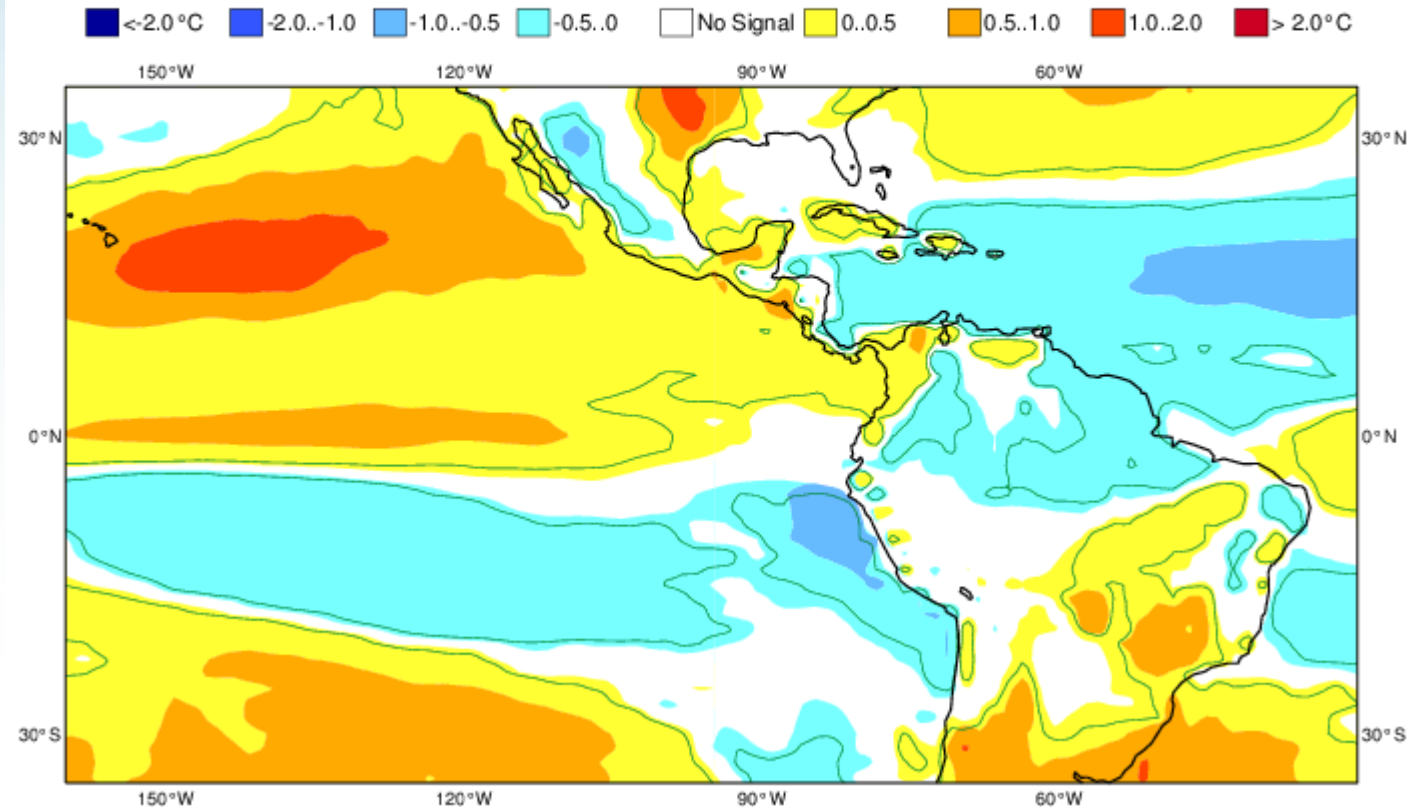
Ensemble size = 51, climate size = 600

System 5

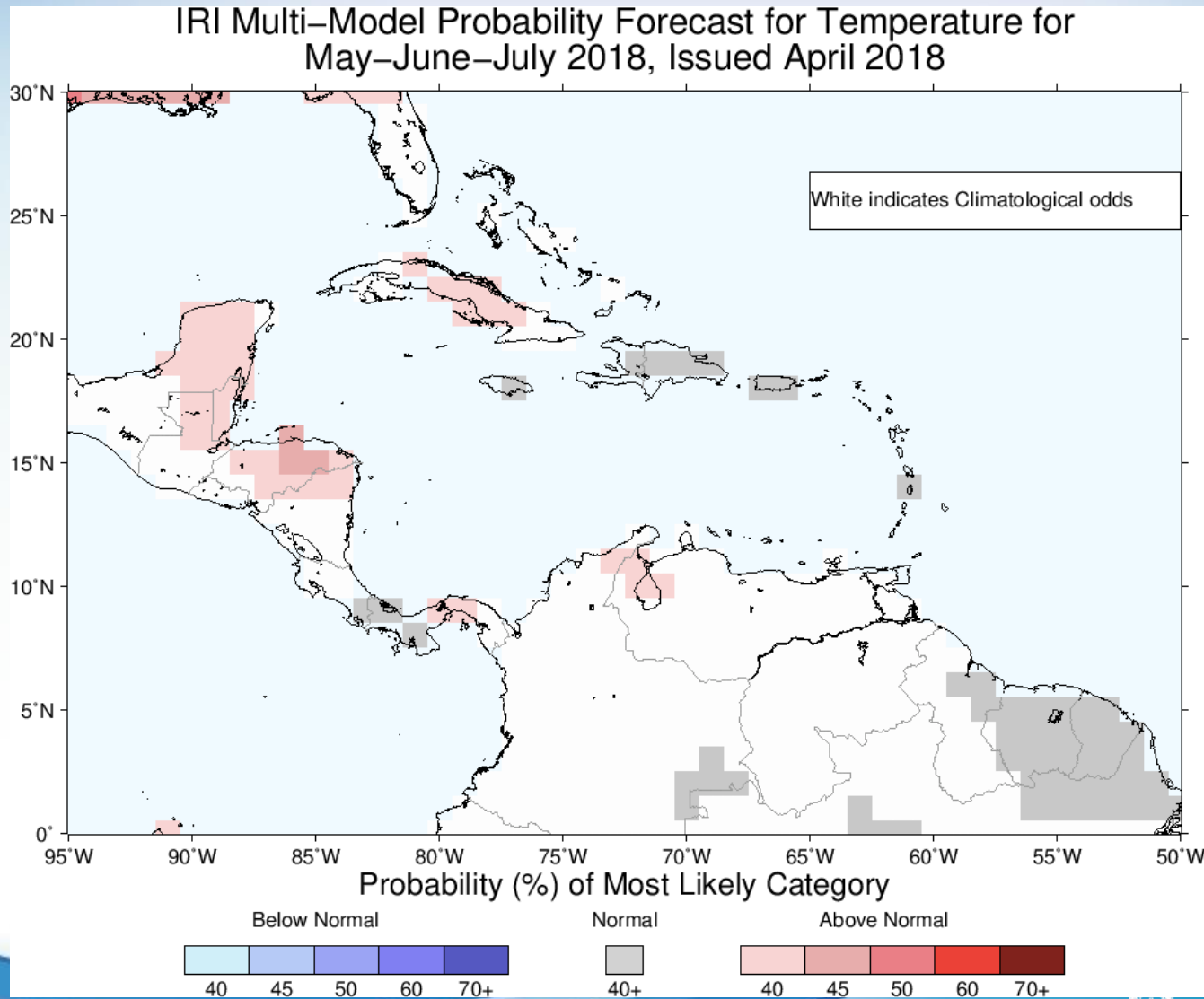
JJA 2018

Shaded areas significant at 10% level

Solid contour at 1% level



Pronóstico temperatura Instituto de Investigación Internacional (IRI) Mayo a Julio 2018



Pronósticos de anomalías de la precipitación Mayo a Julio

Método de analogías

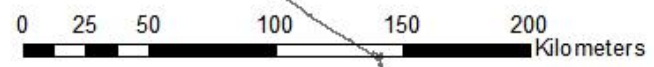
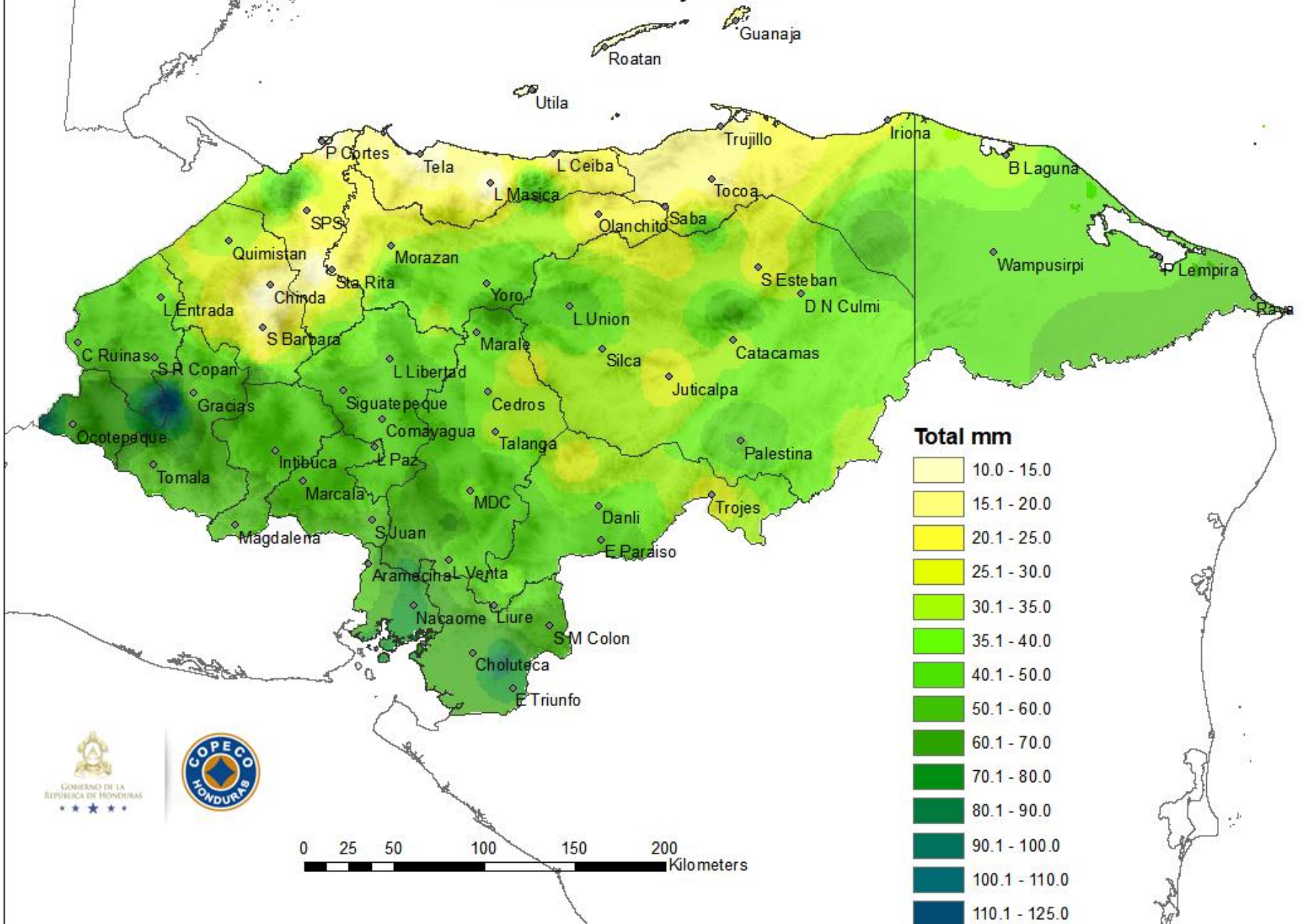
Años análogos 2006, 2012 y 2014



Comprendiendo la evapotranspiración (EVTP).



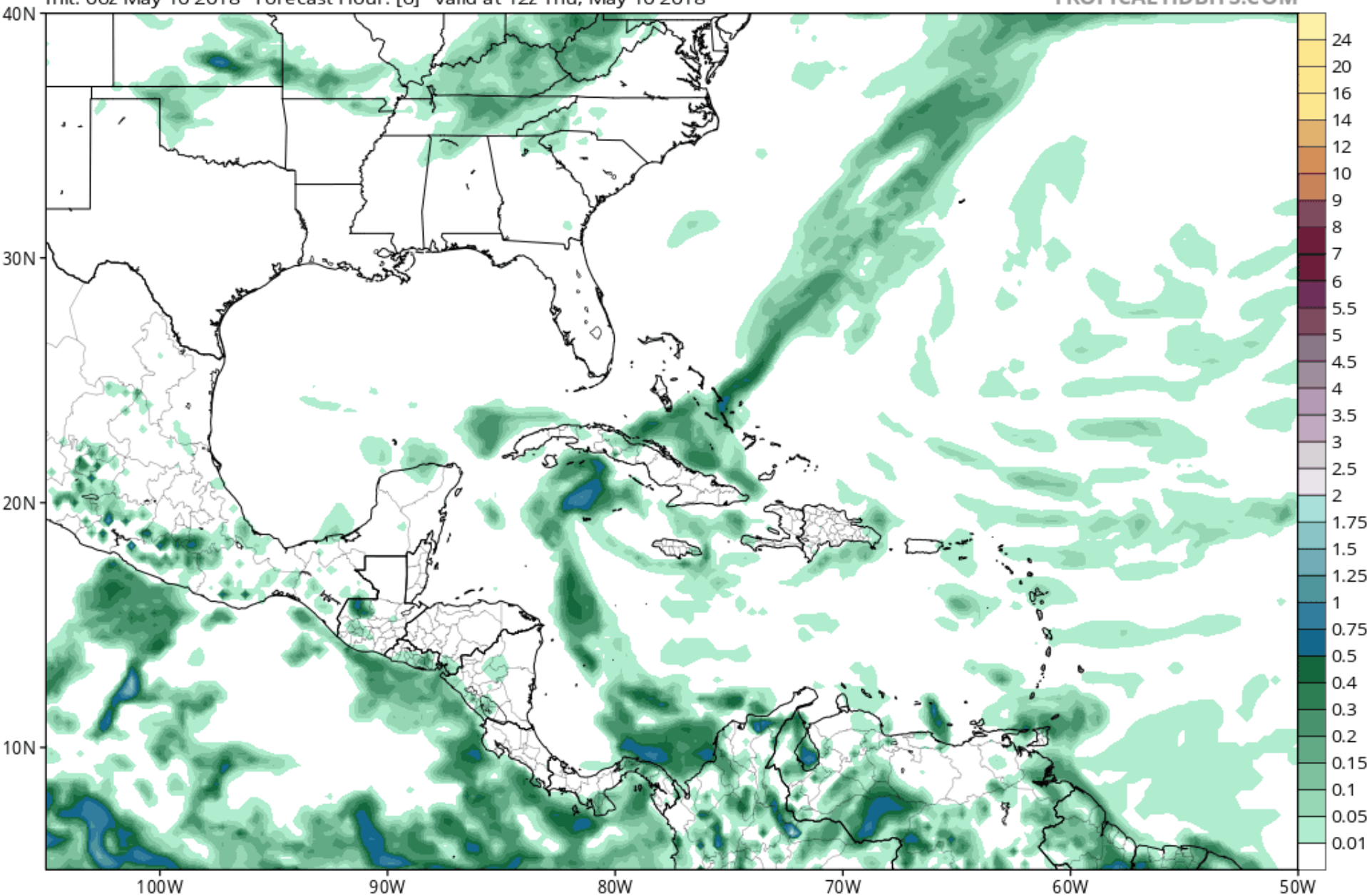
Pronóstico de precipitación acumulada 01 - 10 de Mayo 2018

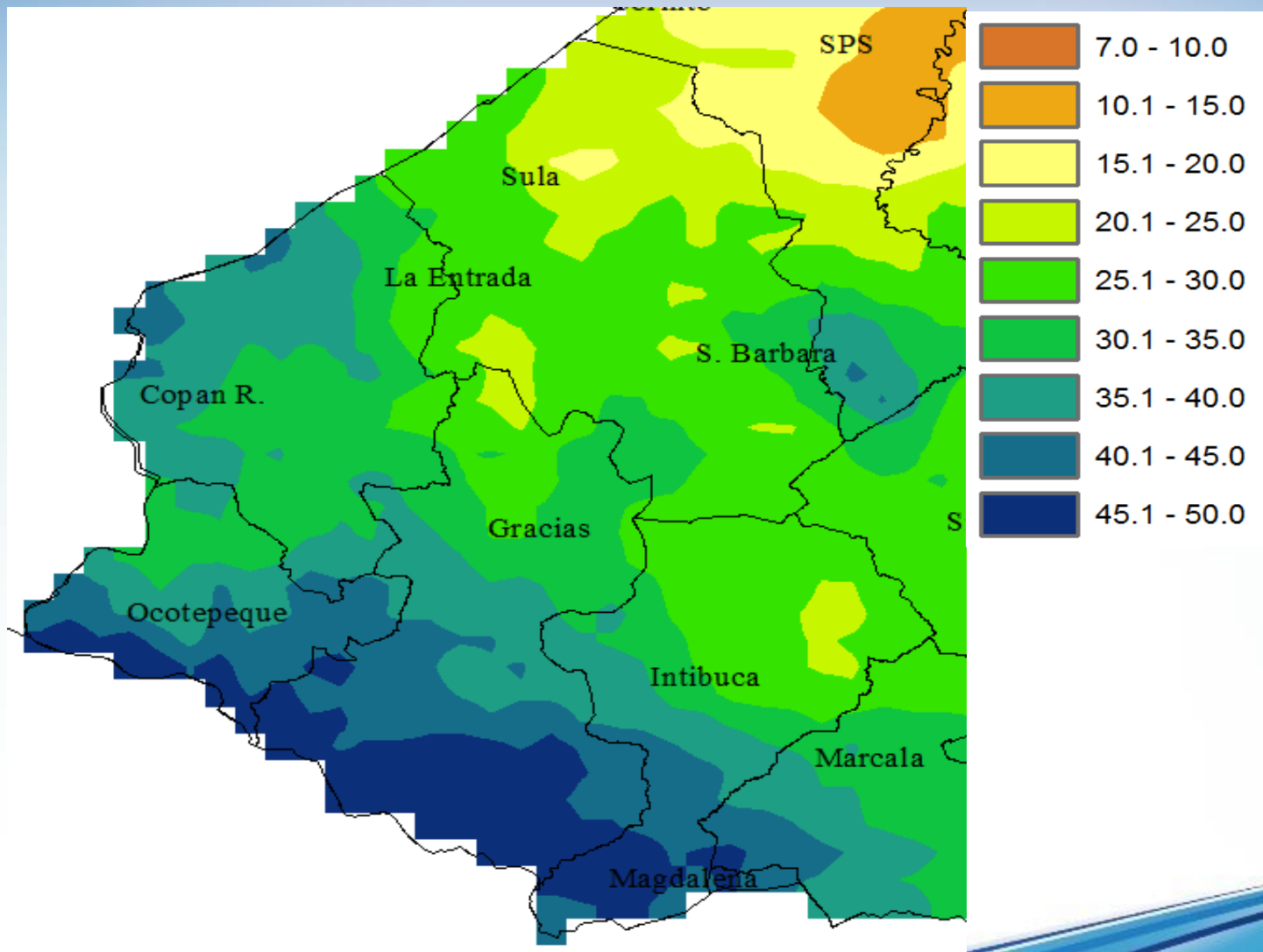


GFS Total Accumulated Precipitation (inches) from 06z10May2018 to 12z10May2018

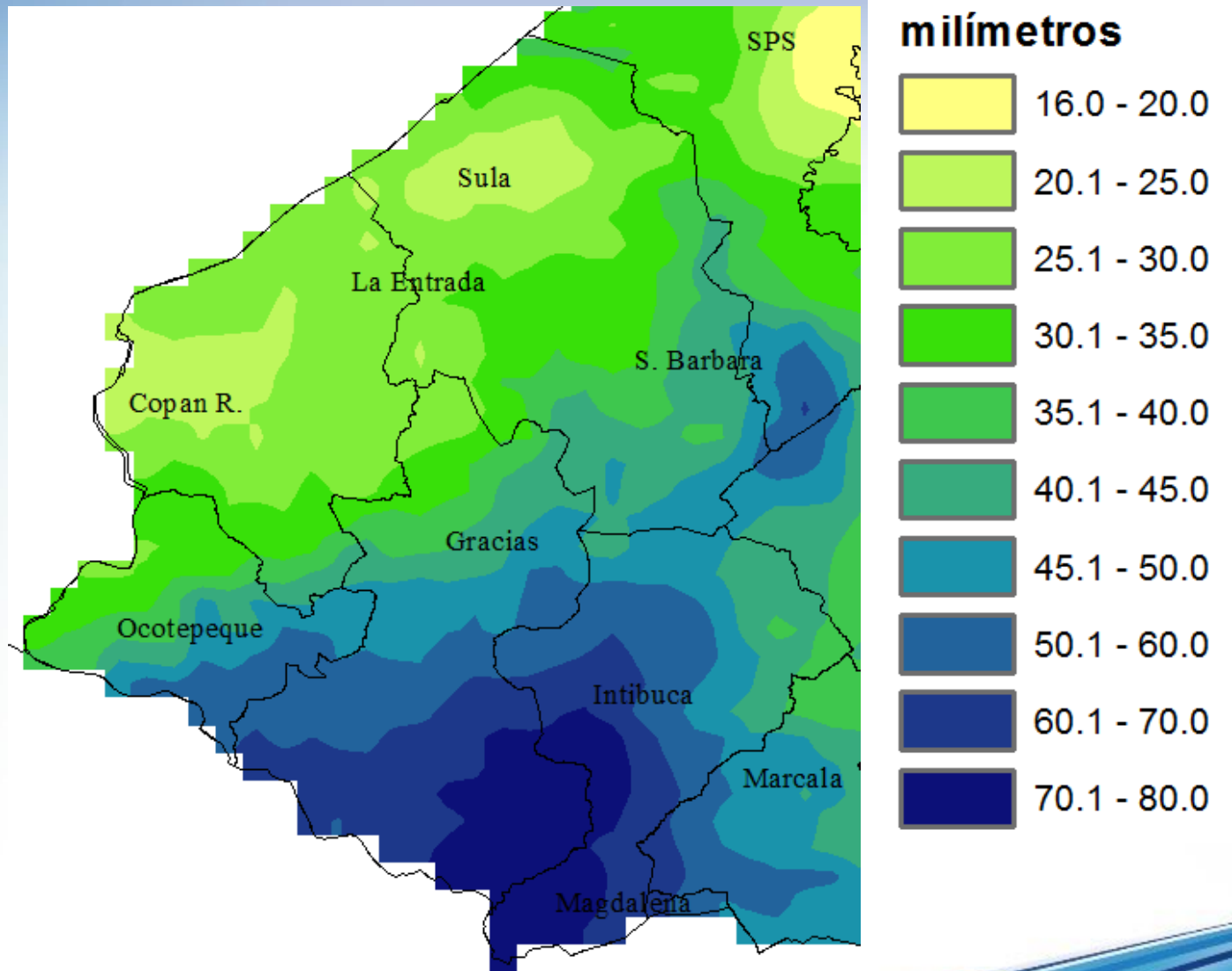
Init: 06z May 10 2018 Forecast Hour: [6] valid at 12z Thu, May 10 2018

TROPICALTIDBITS.COM

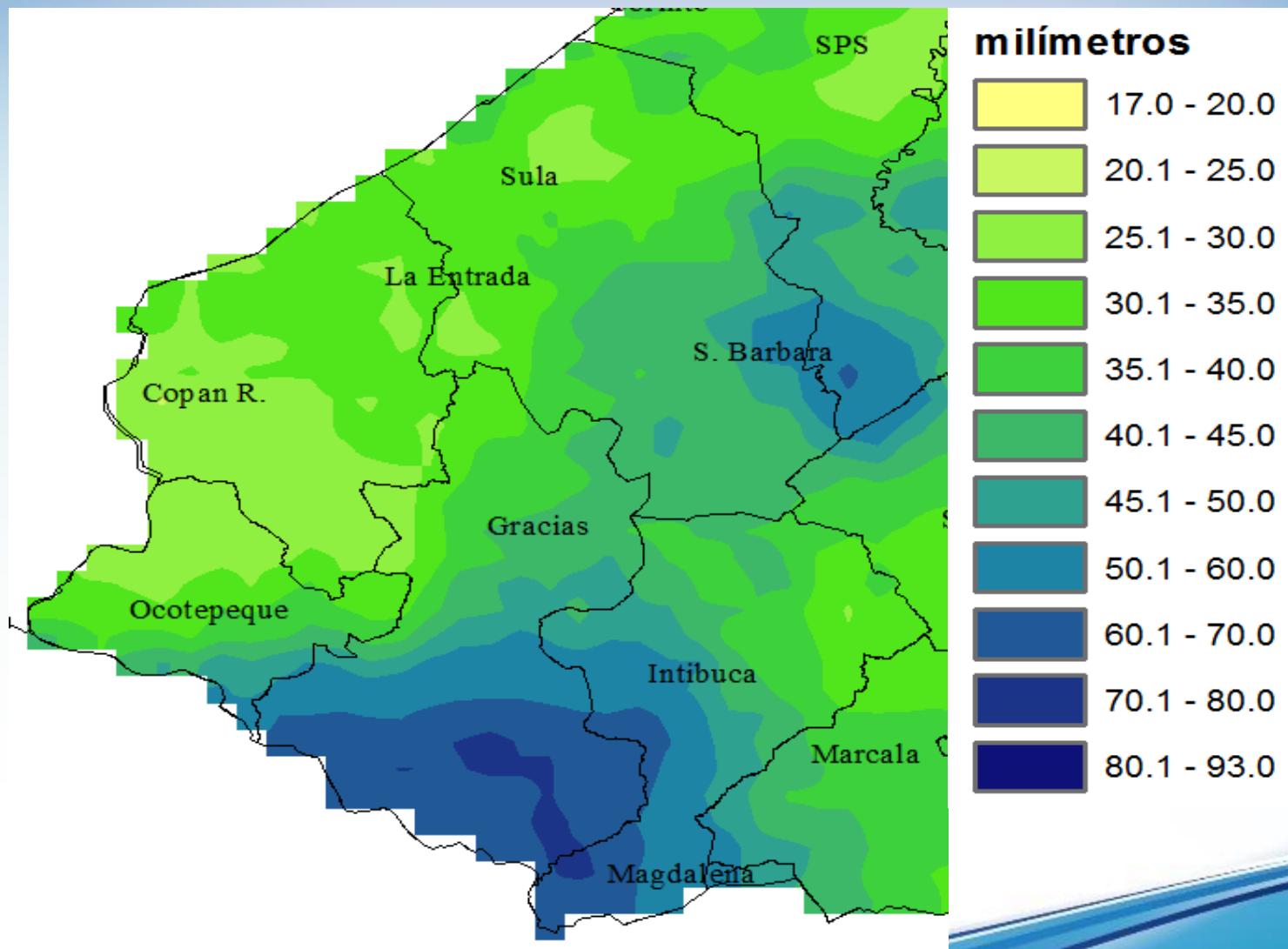




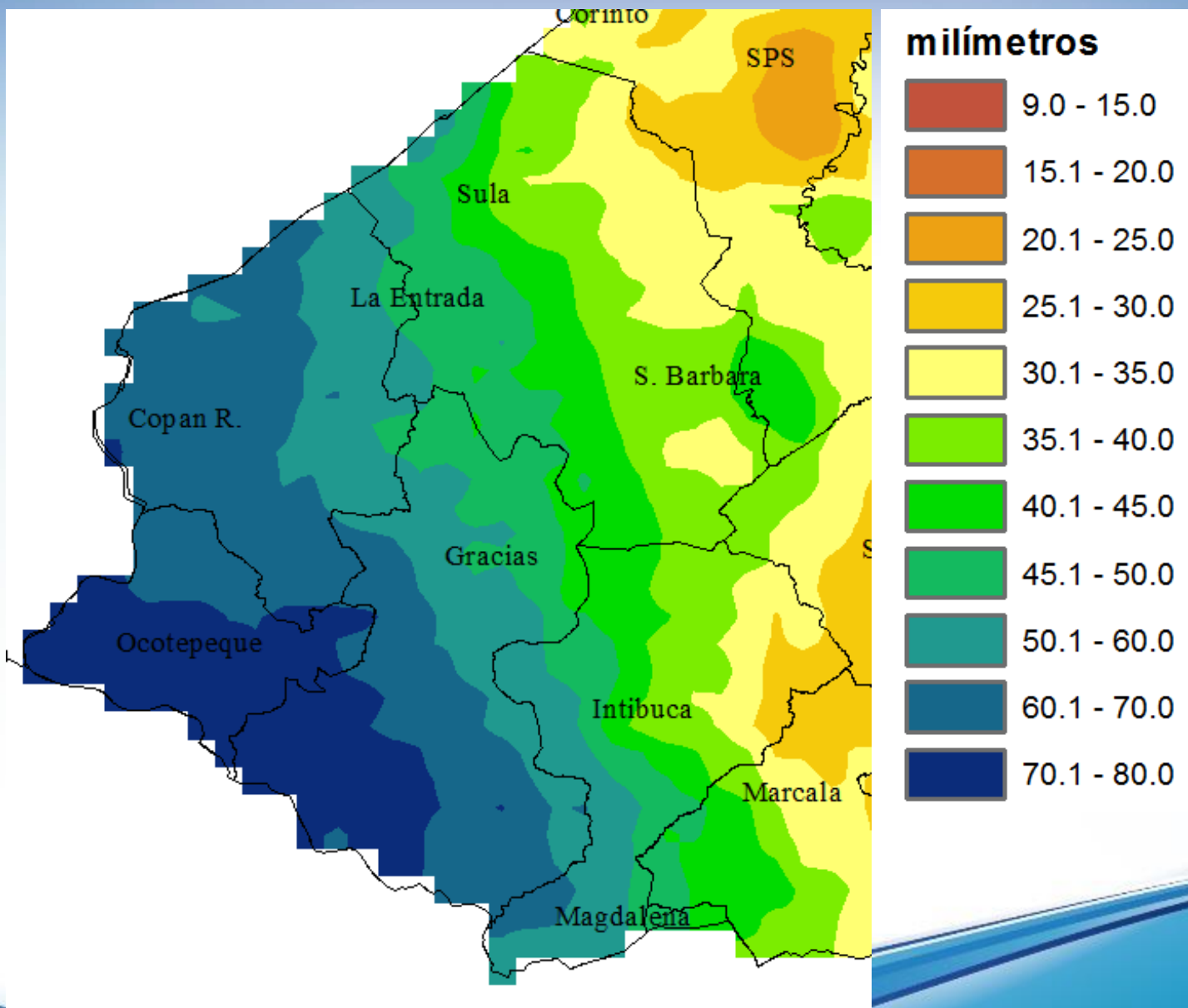
11 al 15 de mayo



16 al 20 de mayo



21 al 25 de mayo



26 al 31 de mayo

Precipitación acumulada esperada Junio 2018

COPÁN
Department Map

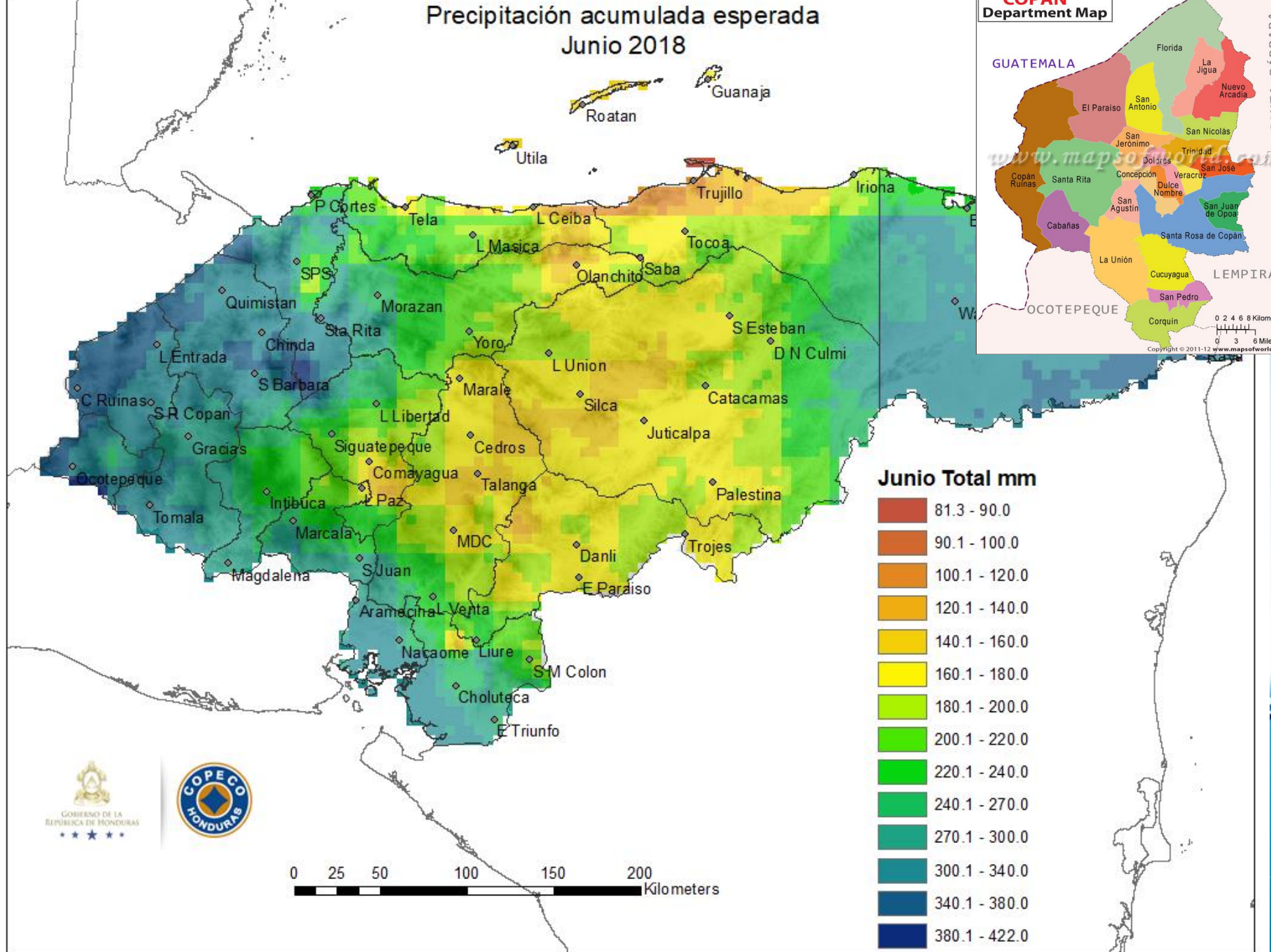
GUATEMALA



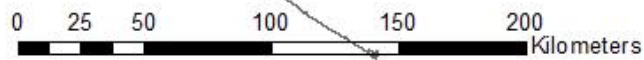
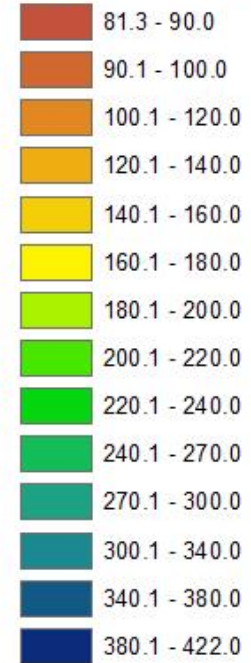
LEMPIRA

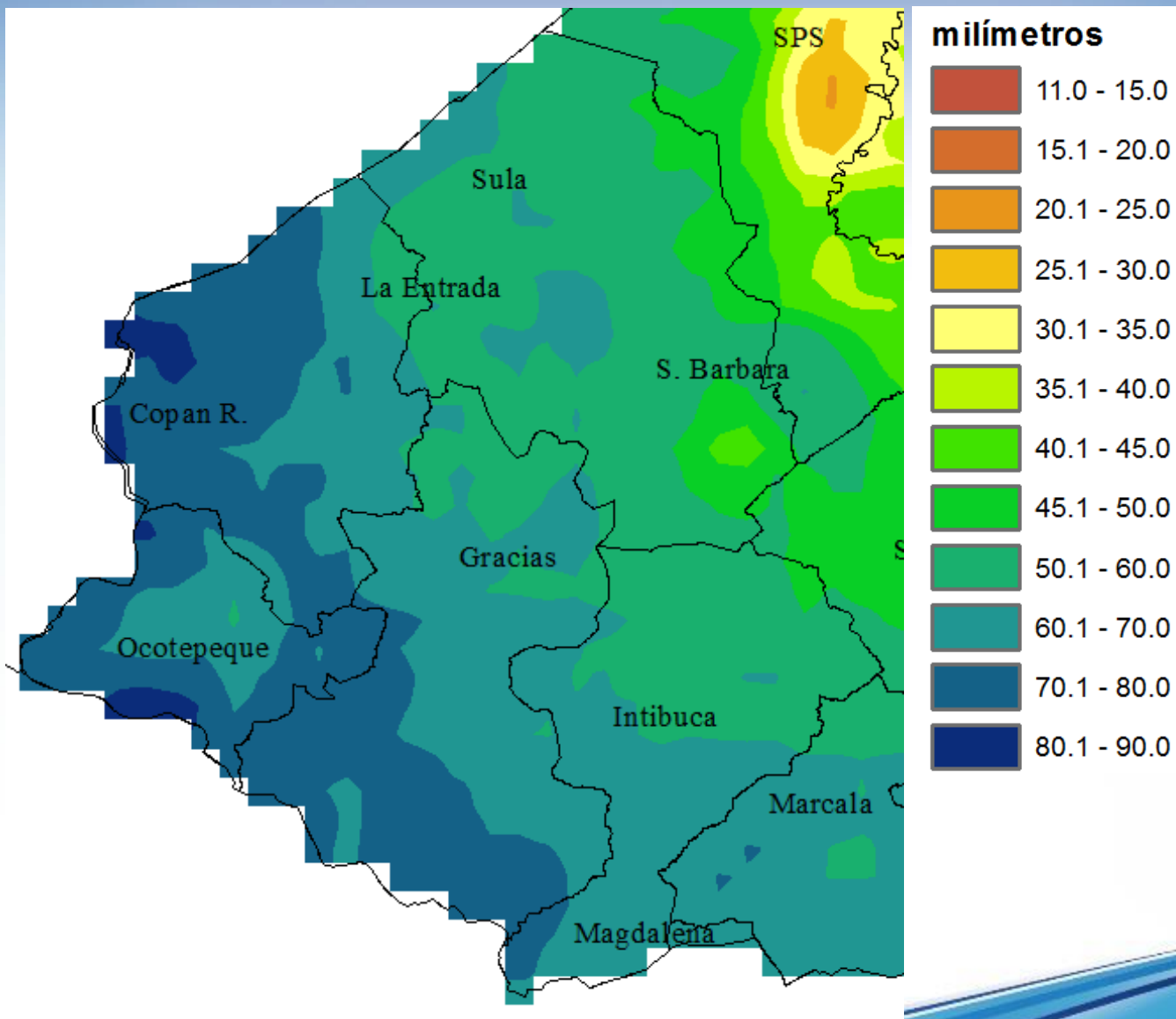


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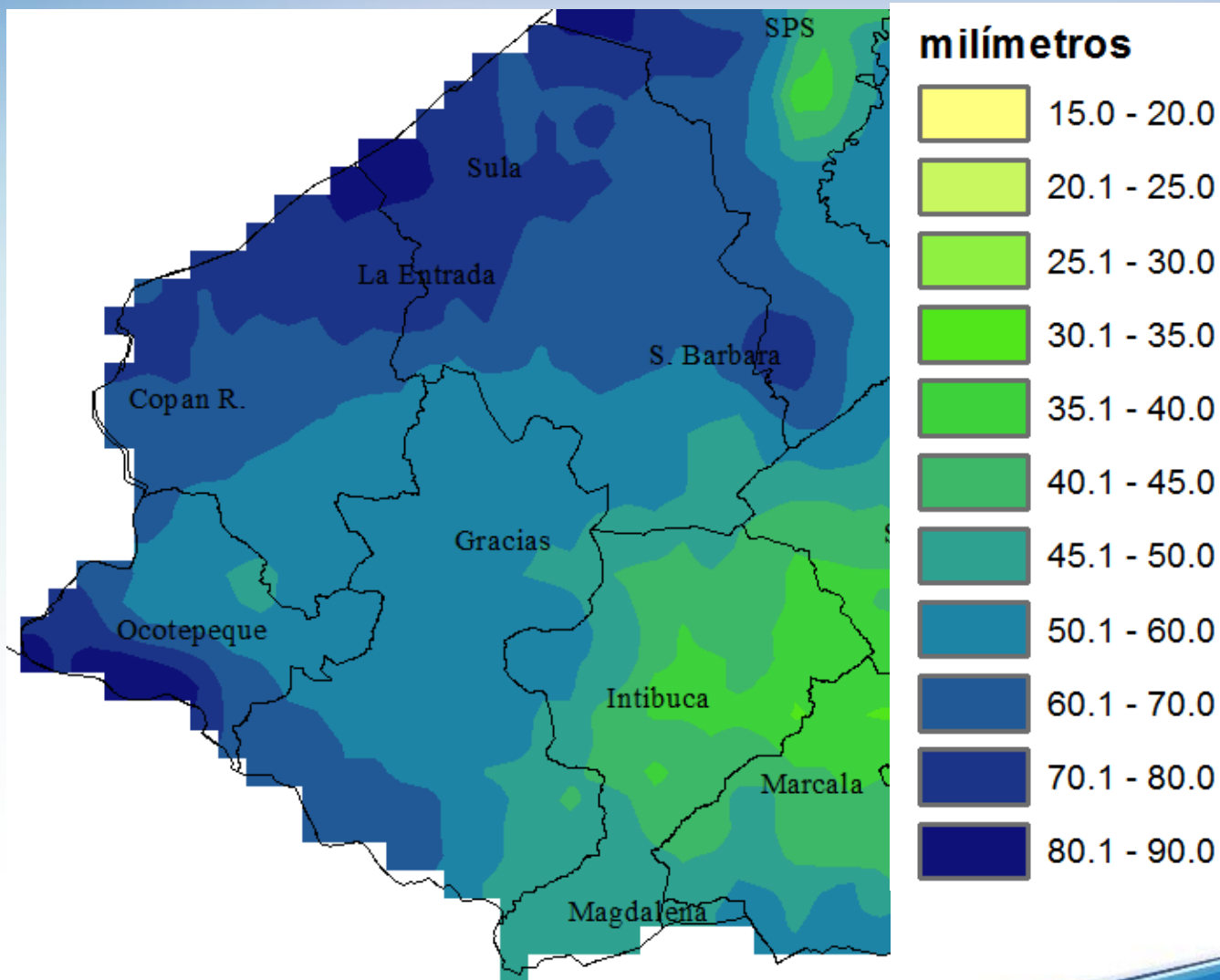


Junio Total mm

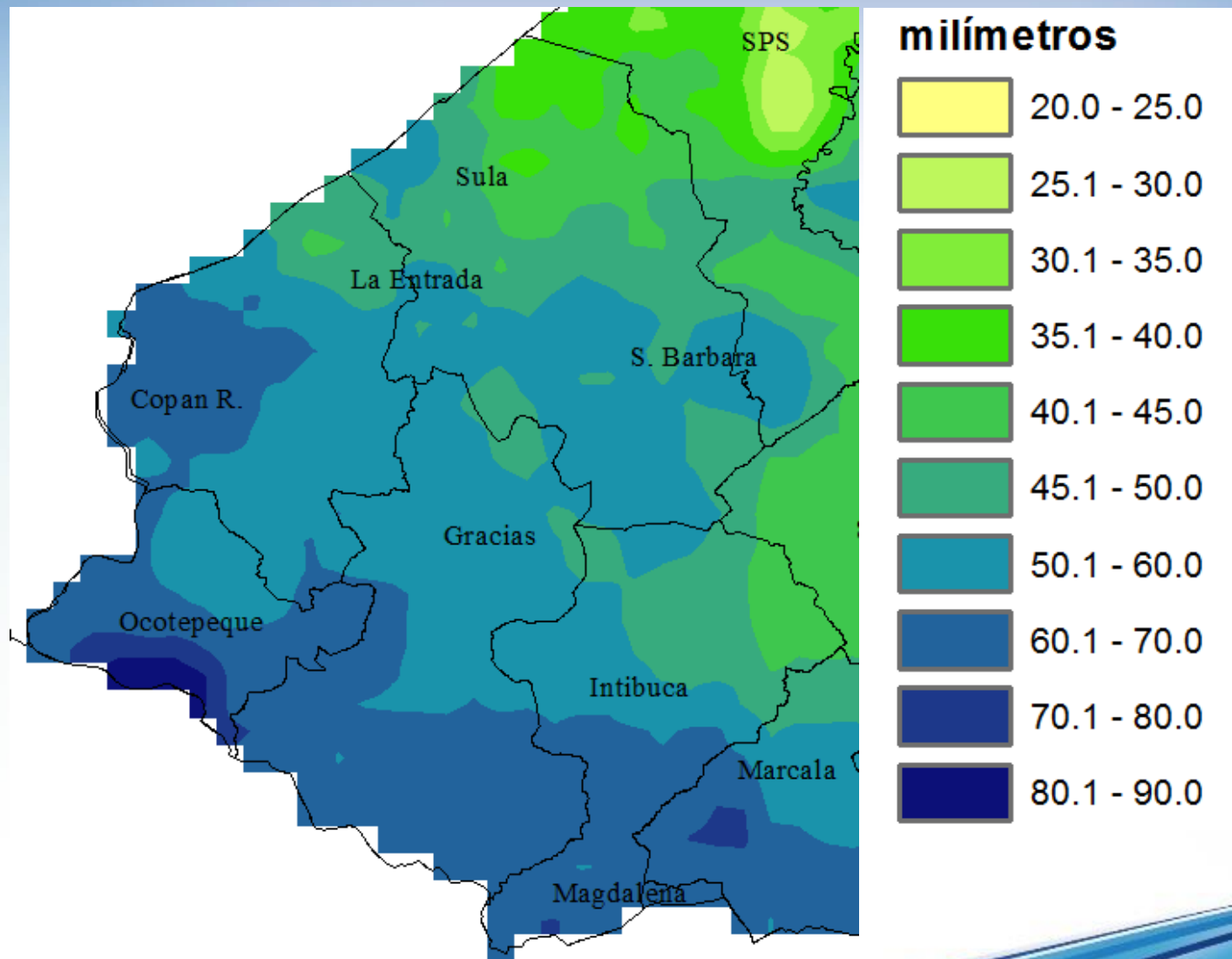




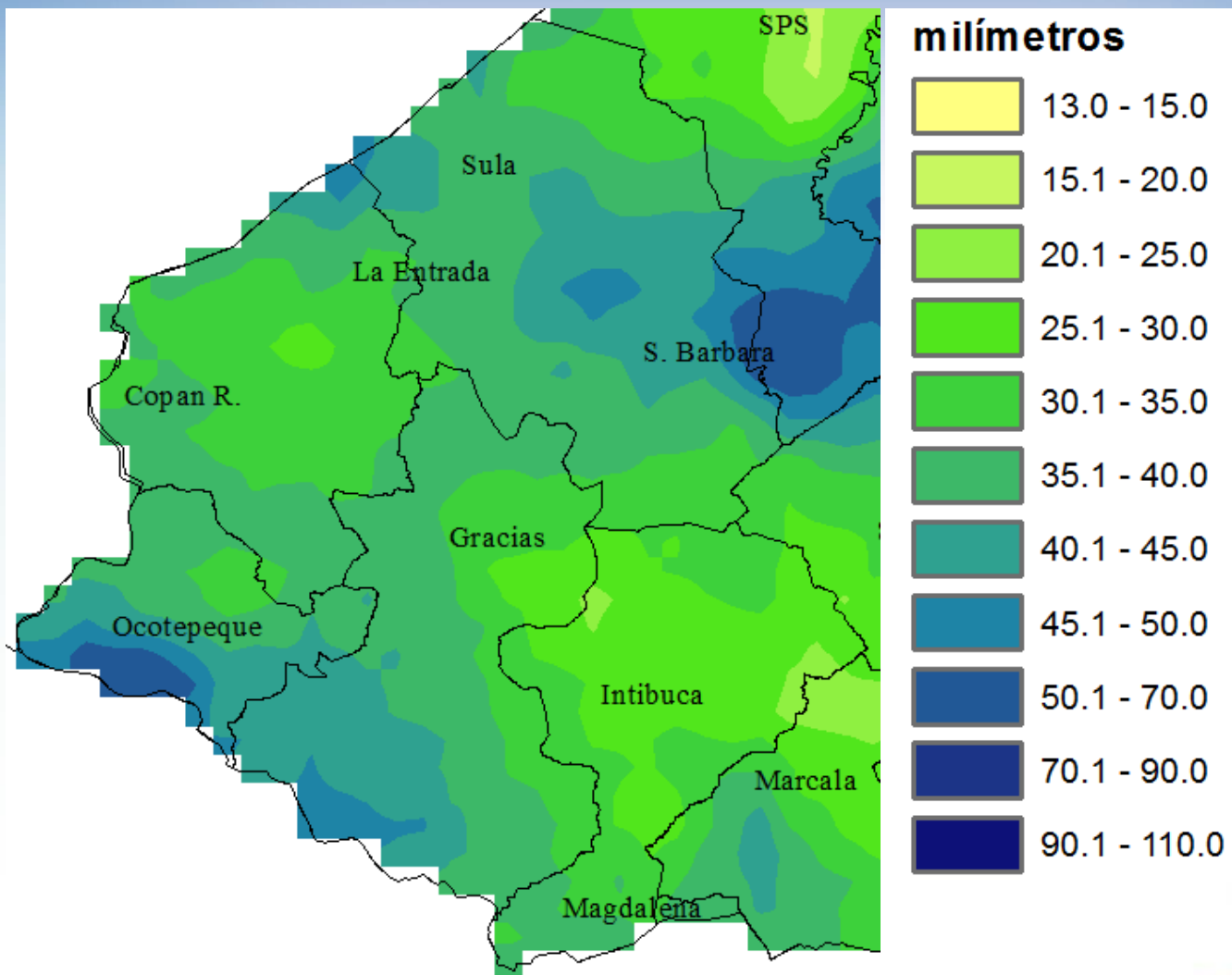
1 al 5 Junio 2018



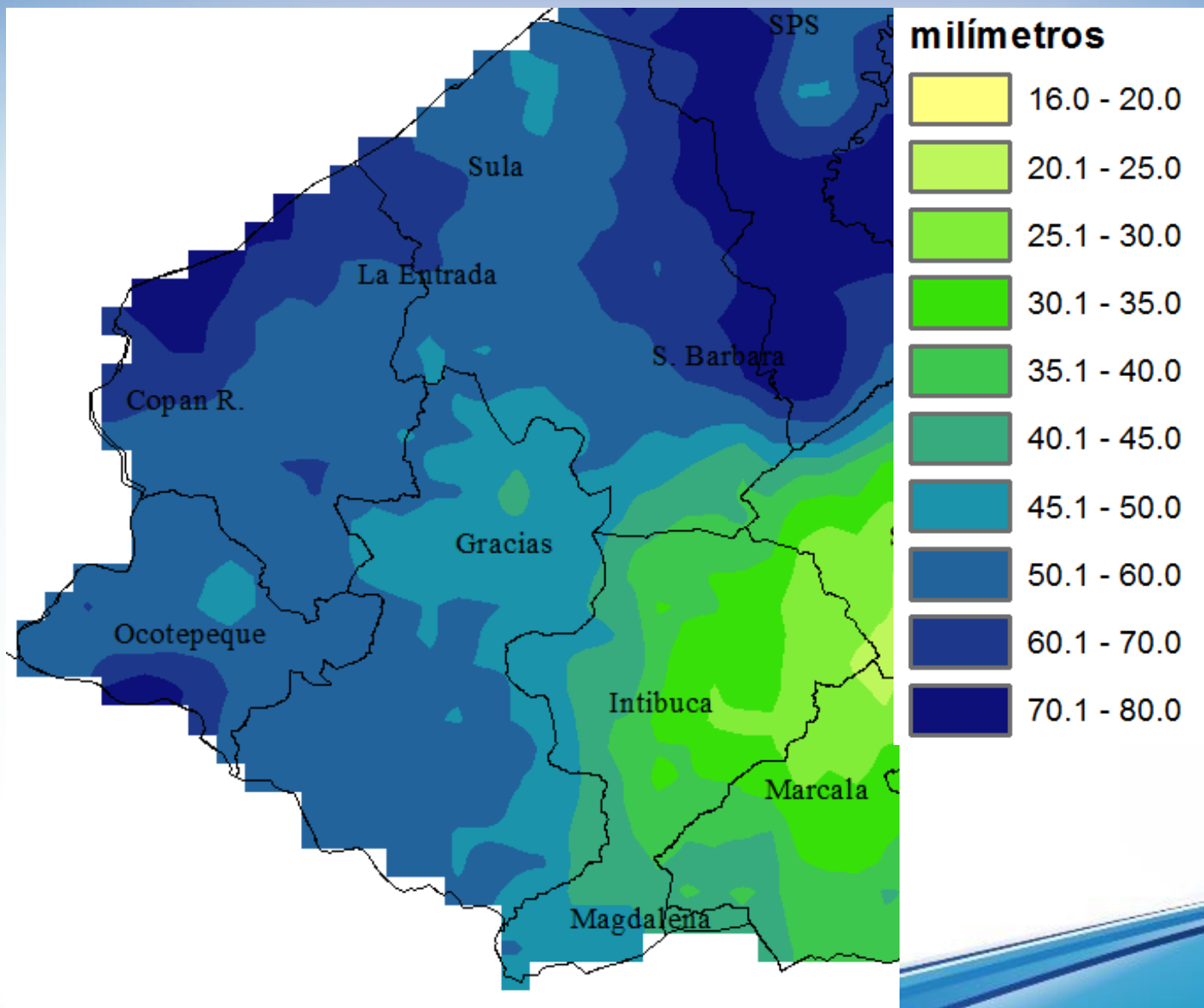
6 al 10 Junio 2018



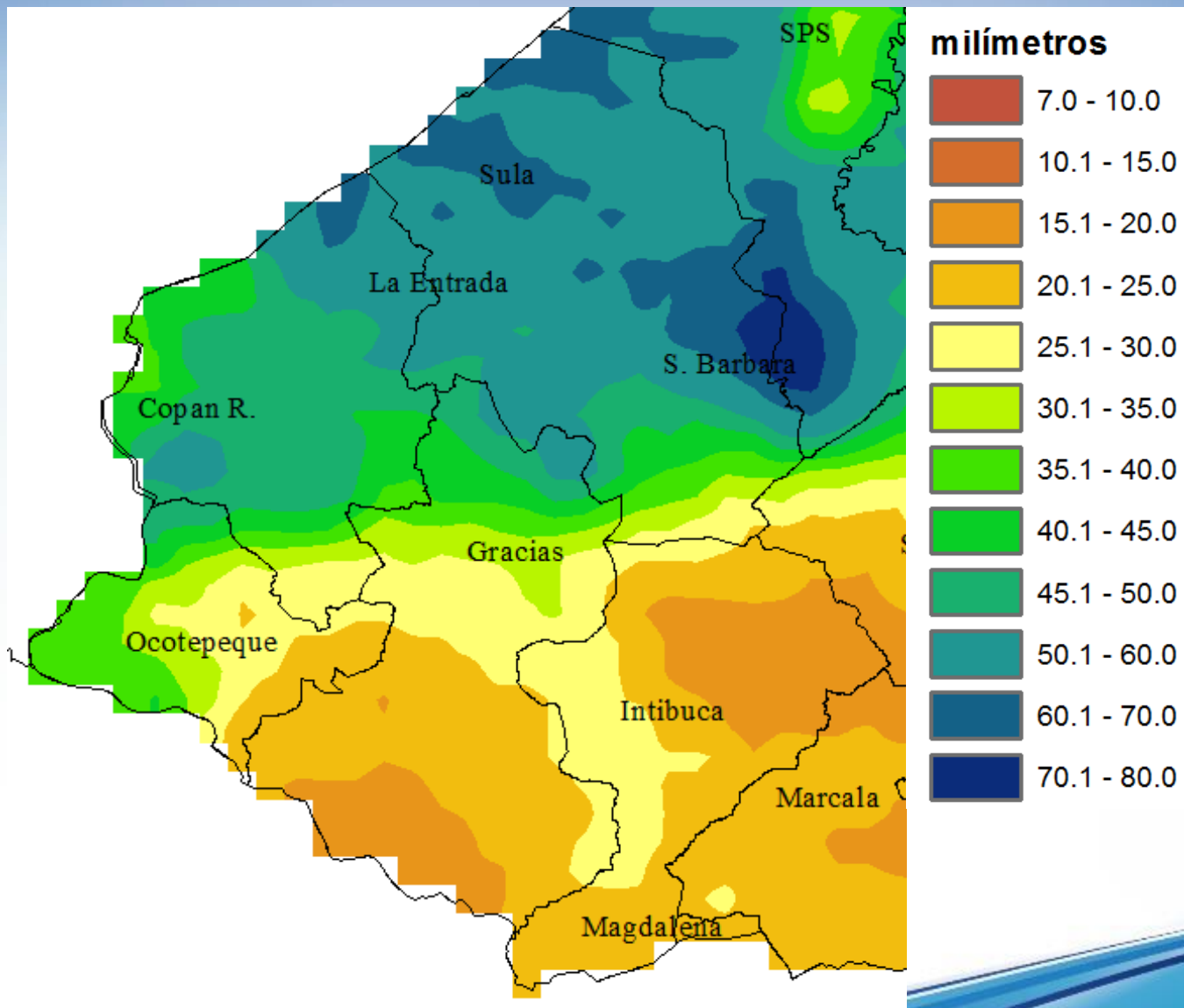
11 al 15 Junio 2018



16 al 20 Junio 2018



21 al 25 Junio 2018



26 al 30 Junio 2018

Anomalía de precipitación esperada Junio 2018

COPÁN
Department Map

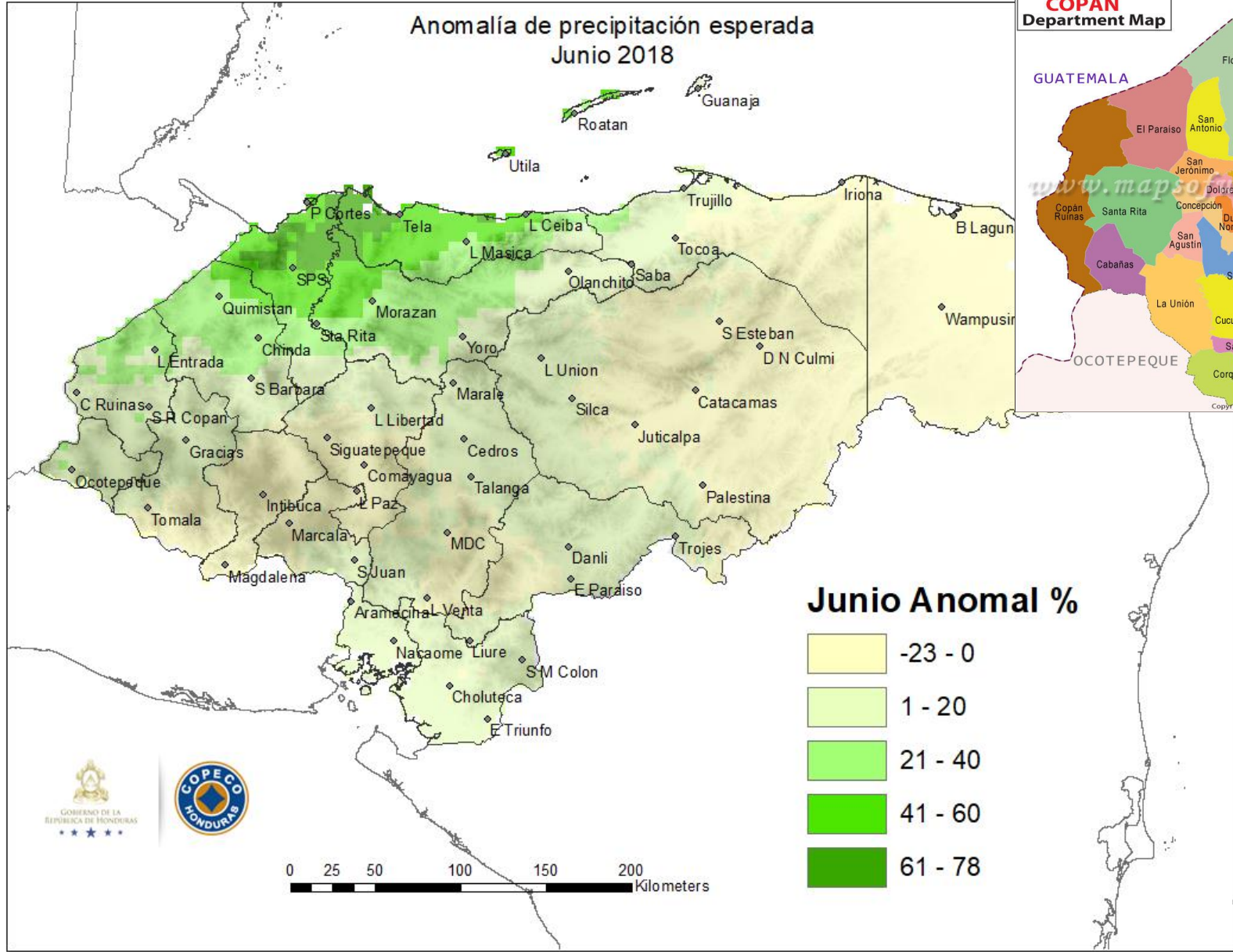
GUATEMALA

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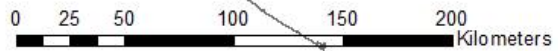
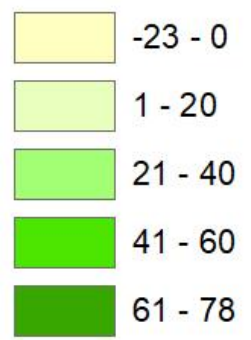
OCOTEPEQUE

LEMPIRA

0 2 4 6 8 Kilometers
0 3 6 Miles
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Junio Anomal %



COMISIÓN PERMANENTE
DE CONTINGENCIAS

Precipitación acumulada esperada Julio 2018

COPÁN
Department Map

GUATEMALA



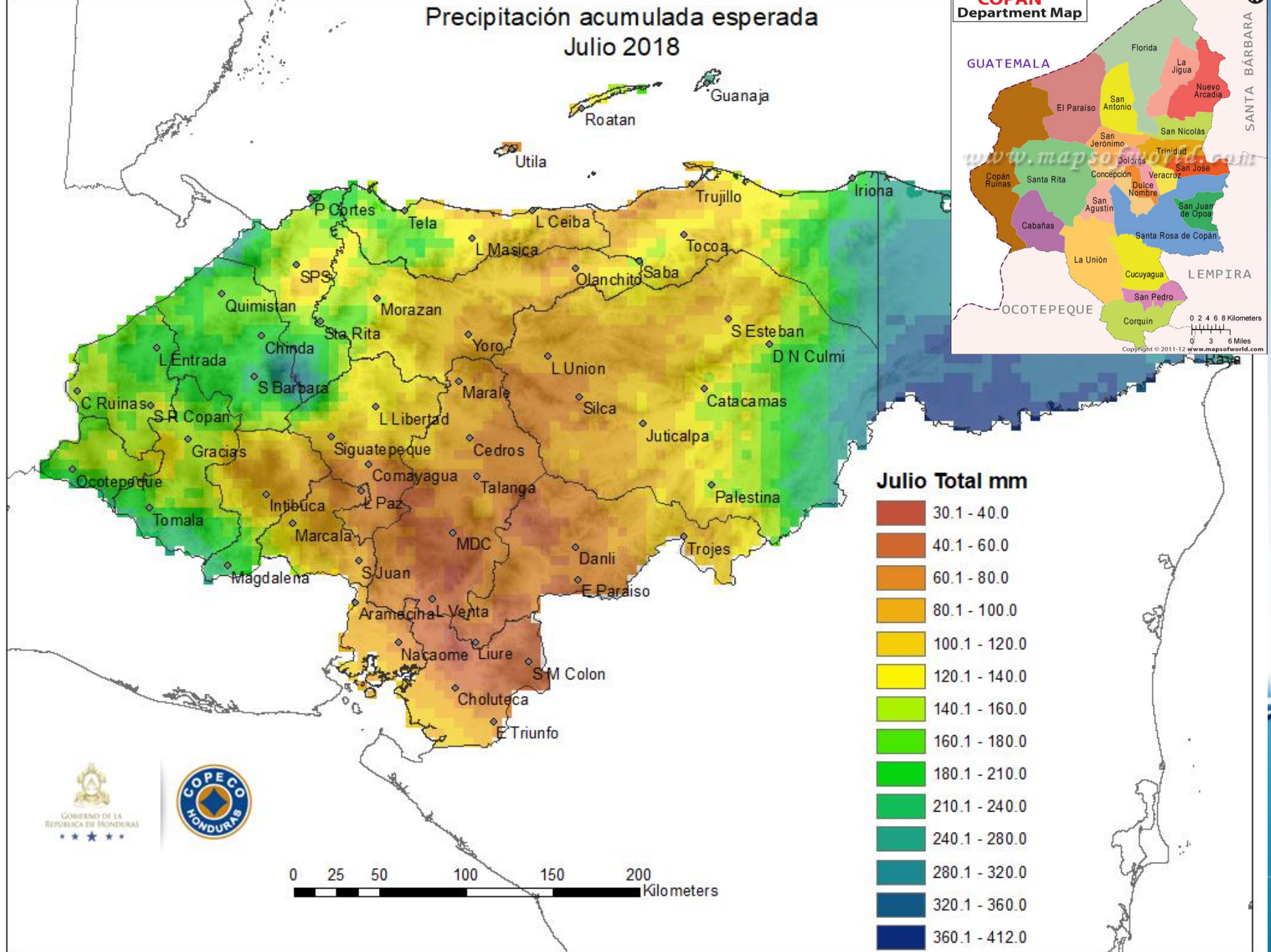
SANTA BARBARA

LEMPIRA

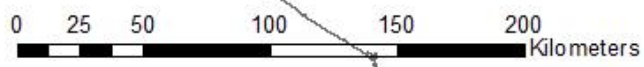
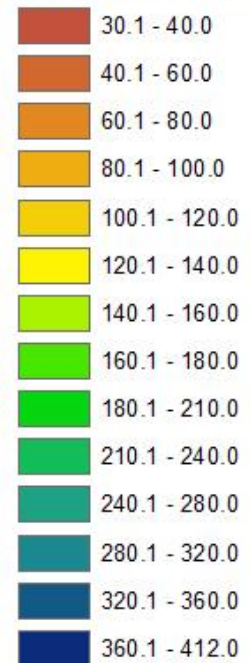
OCOTEPEQUE

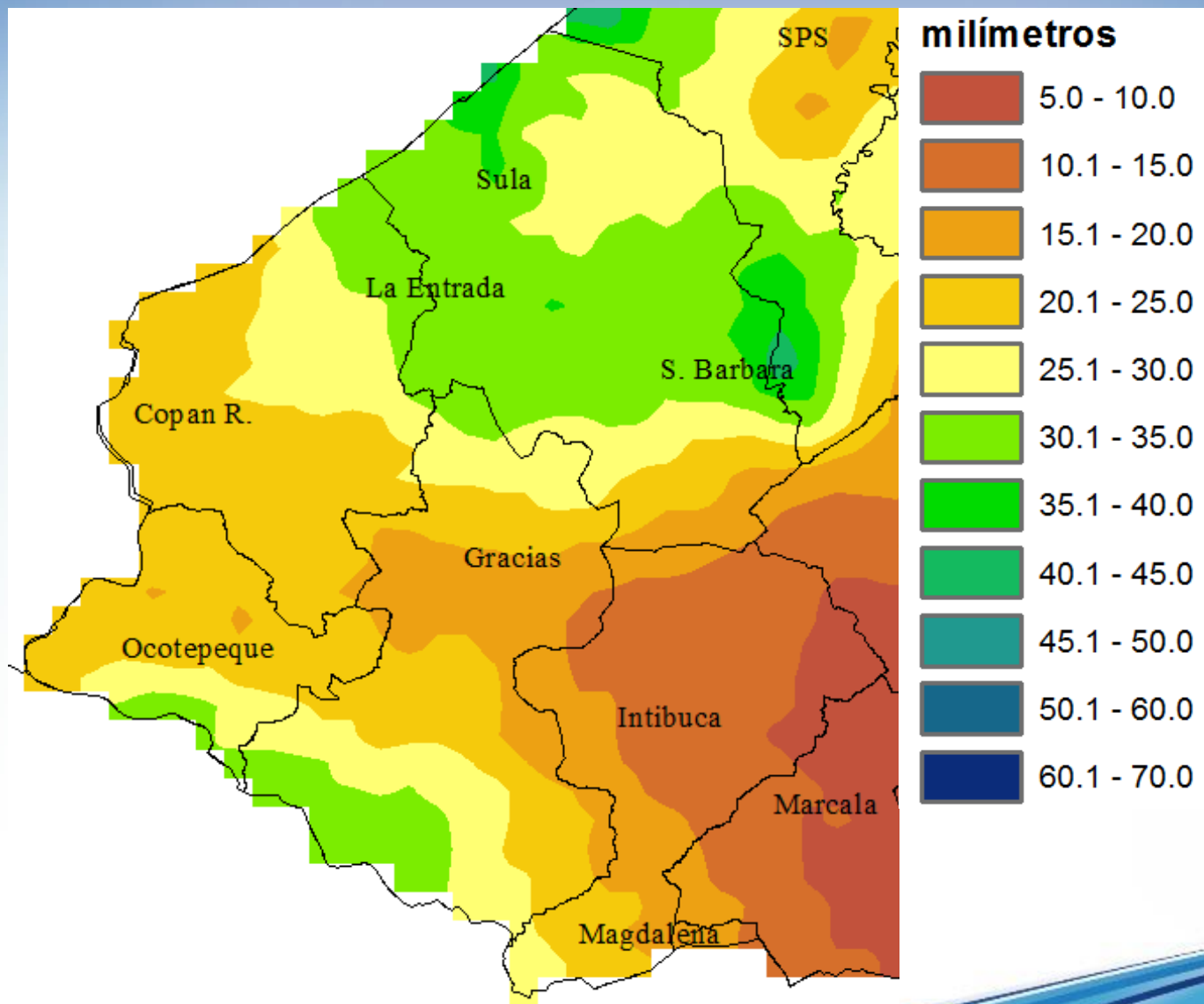
0 2 4 6 8 Kilometers
0 3 6 Miles

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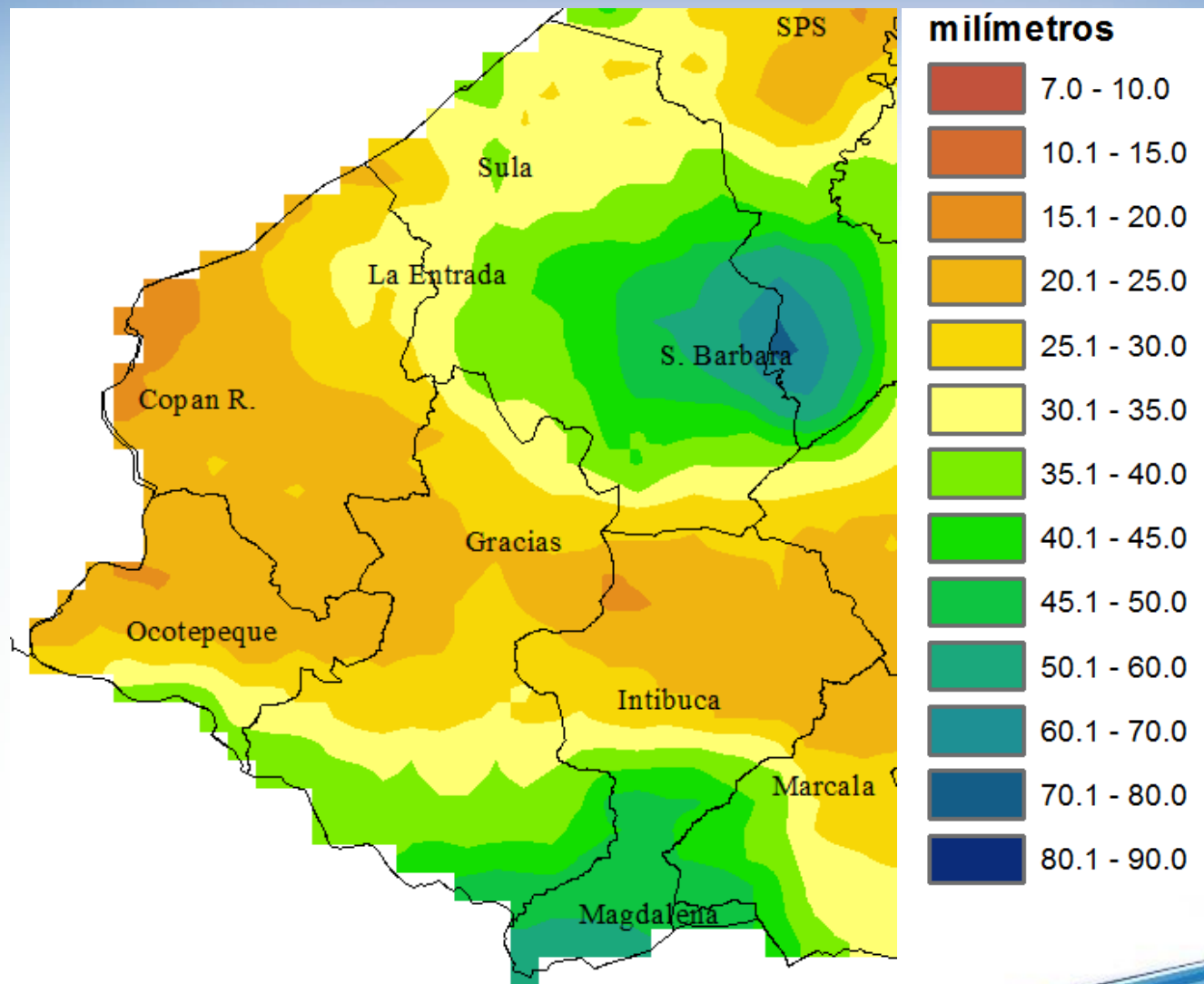


Julio Total mm

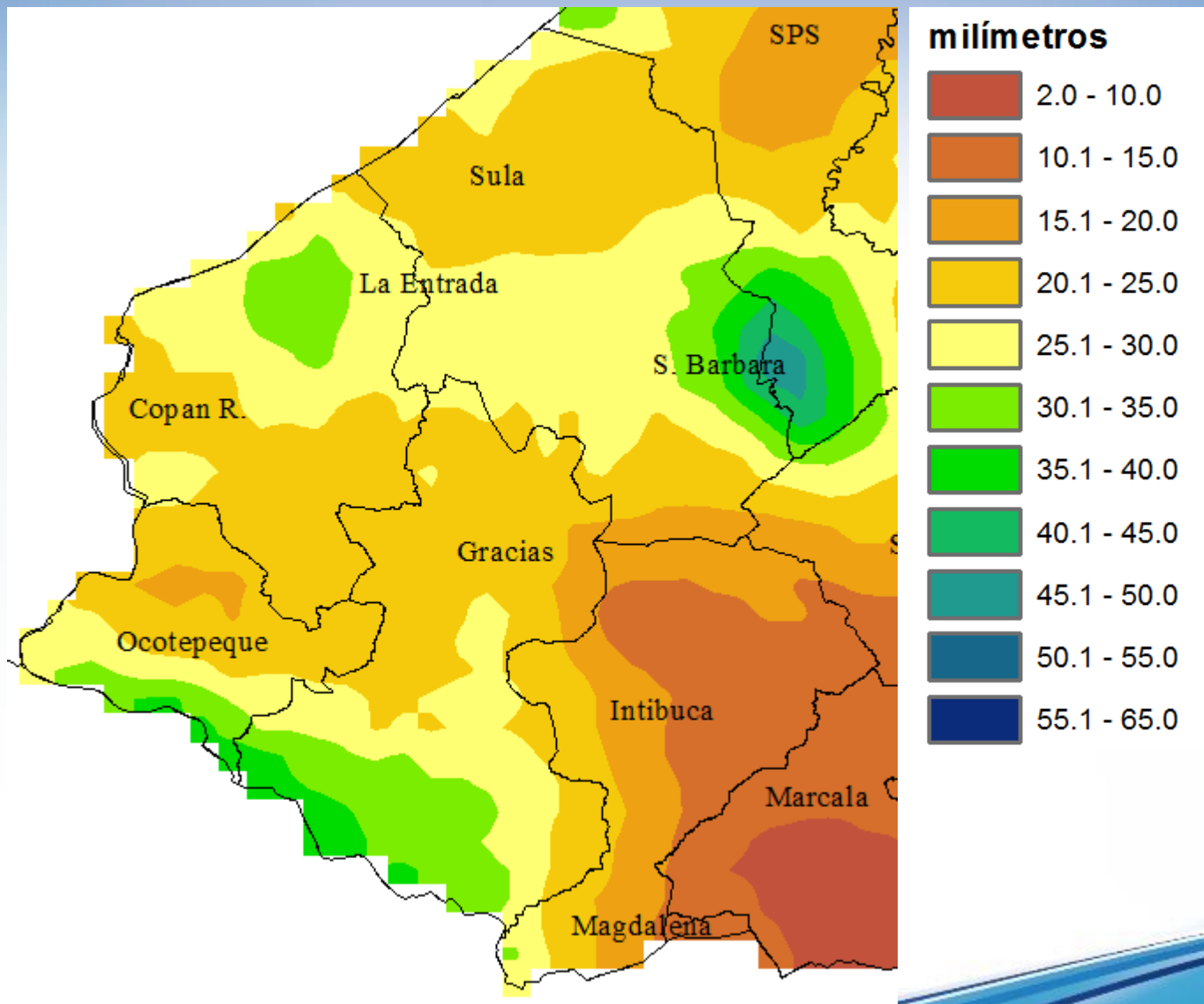




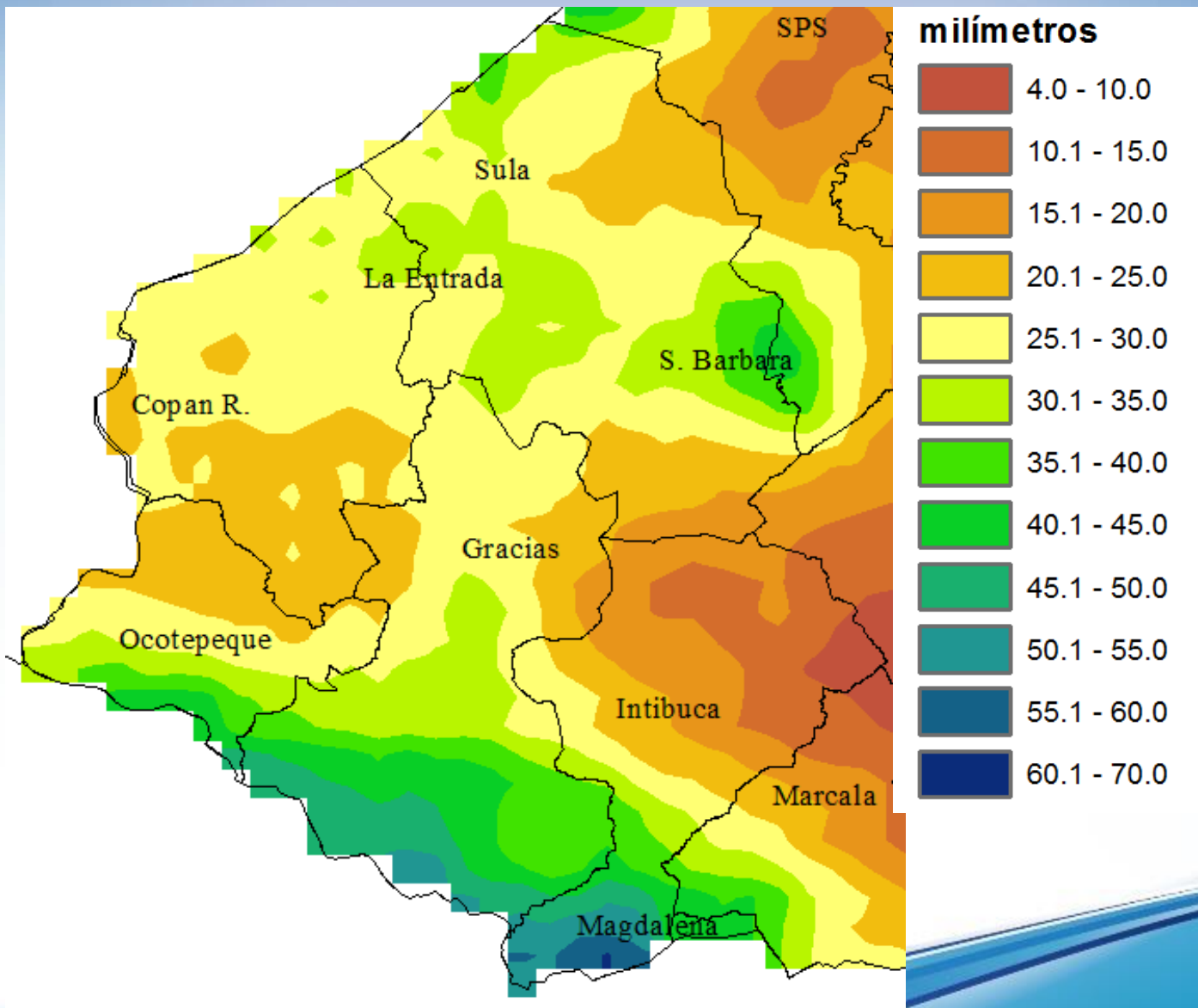
1 al 5 Julio 2018



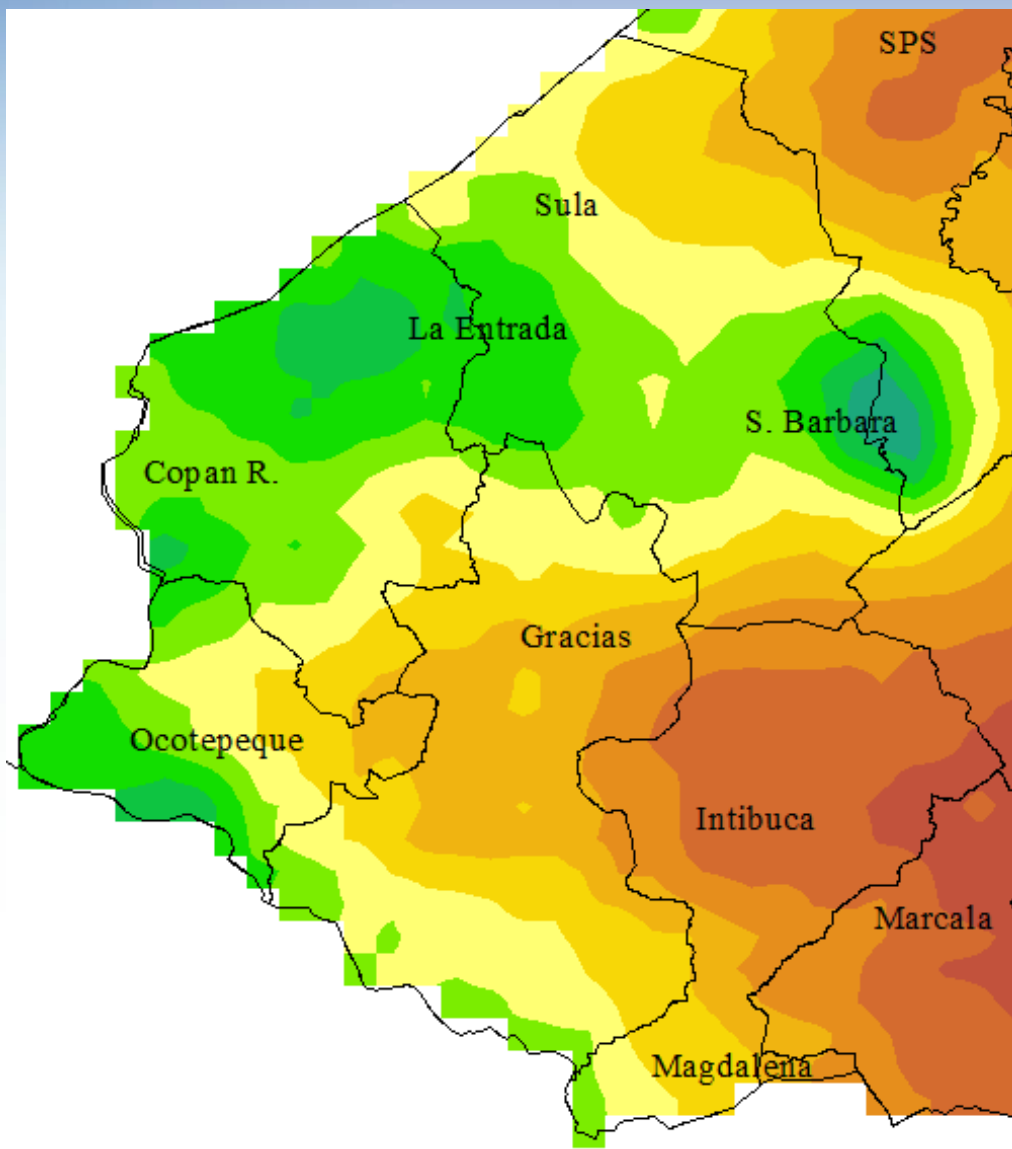
6 al 10 Julio 2018



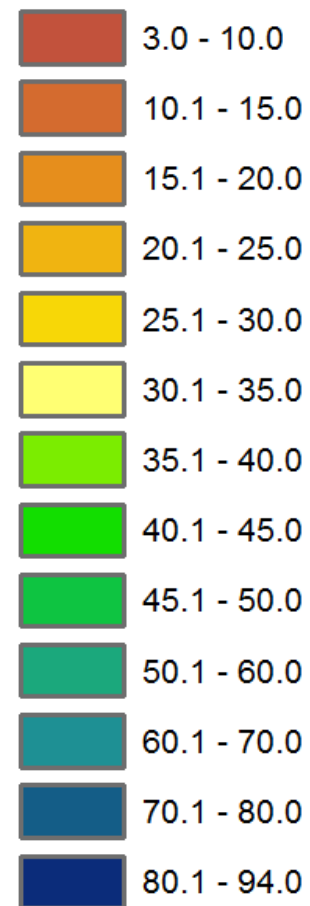
11 al 15 Julio 2018



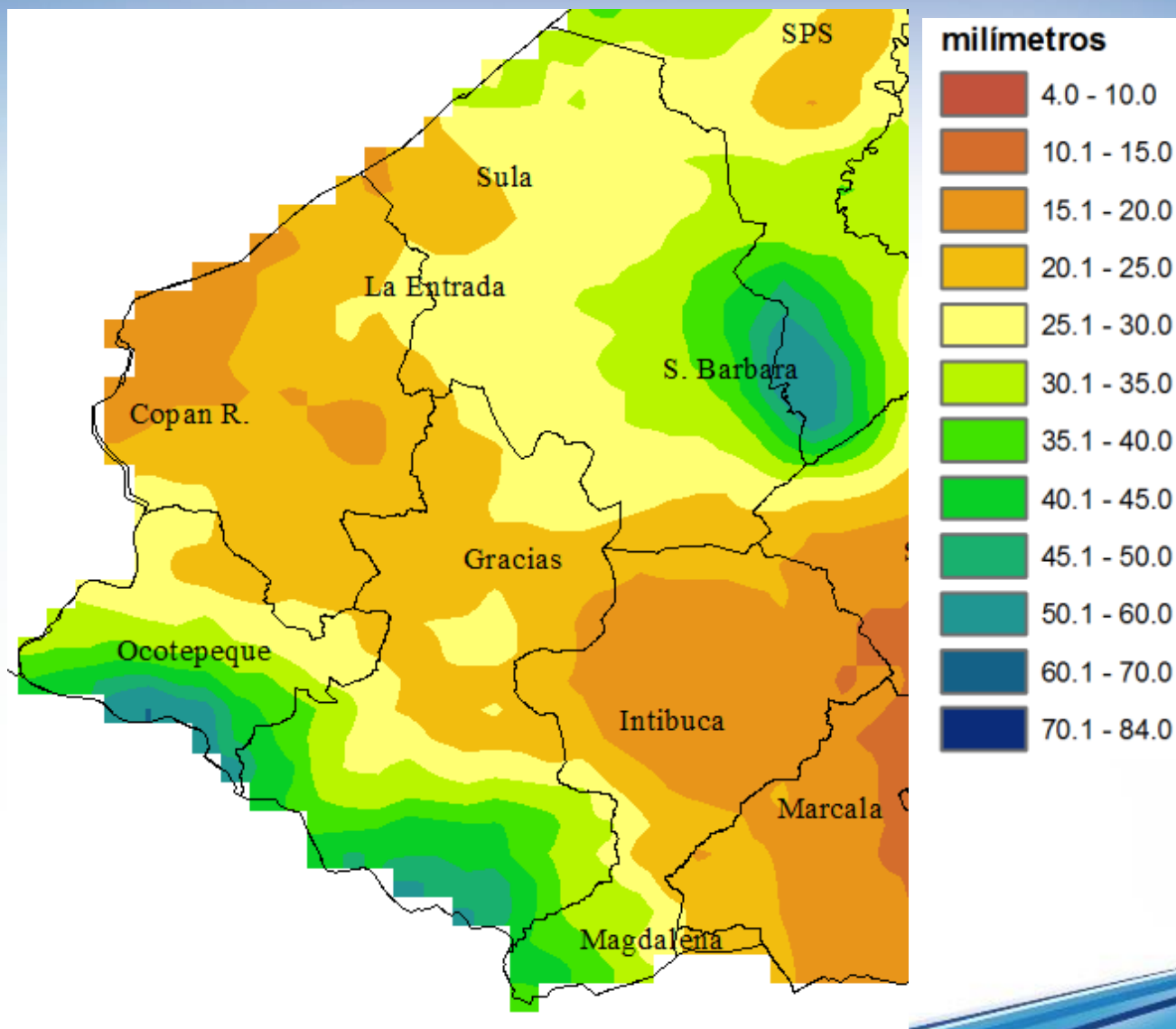
16 al 20 Julio 2018



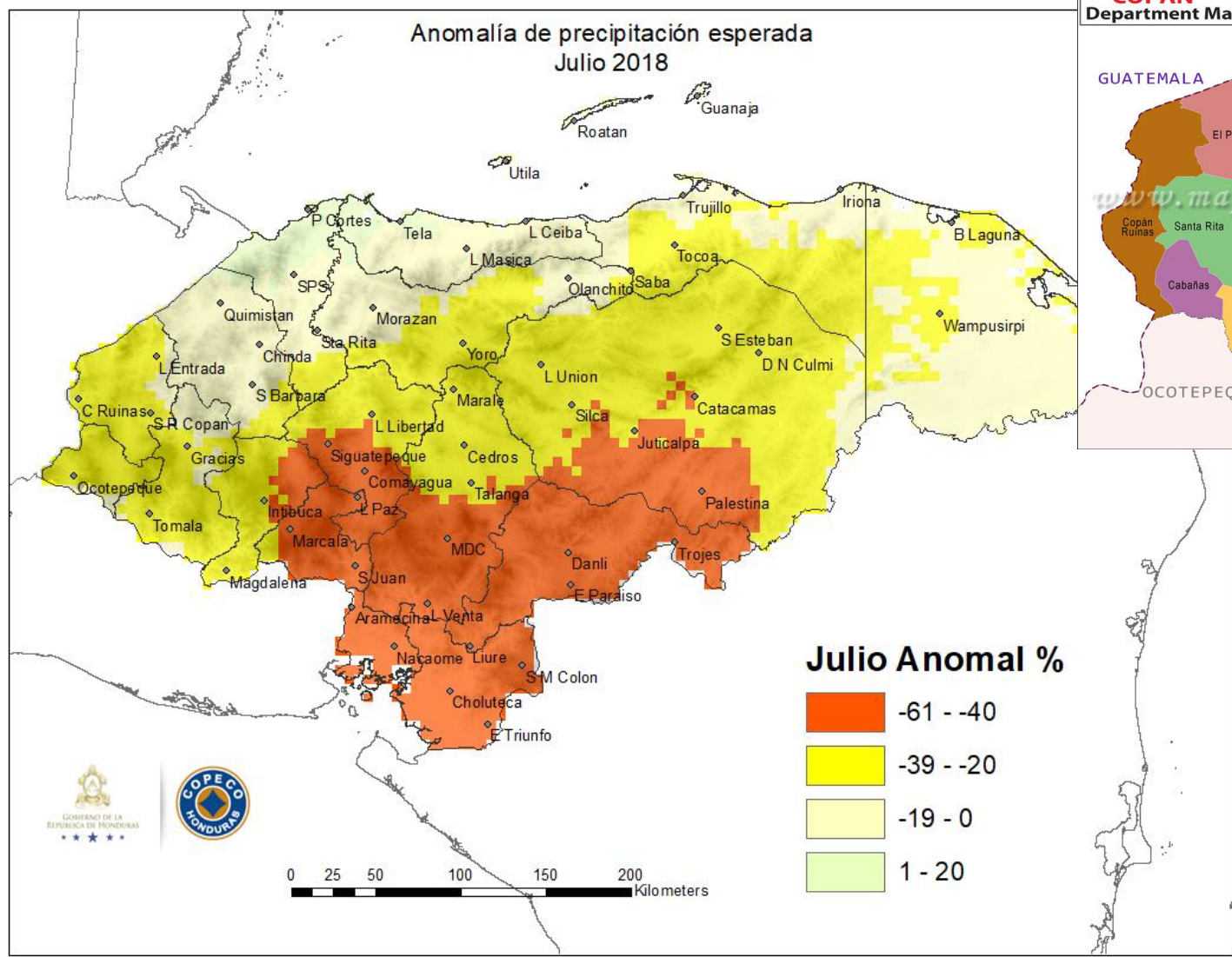
milímetros



21 al 25 Julio 2018



26 al 31 Julio 2018



La canícula en el departamento de Ocotepaque seria de leve a moderada.

Precipitación acumulada esperada Agosto 2018

COPÁN
Department Map

GUATEMALA

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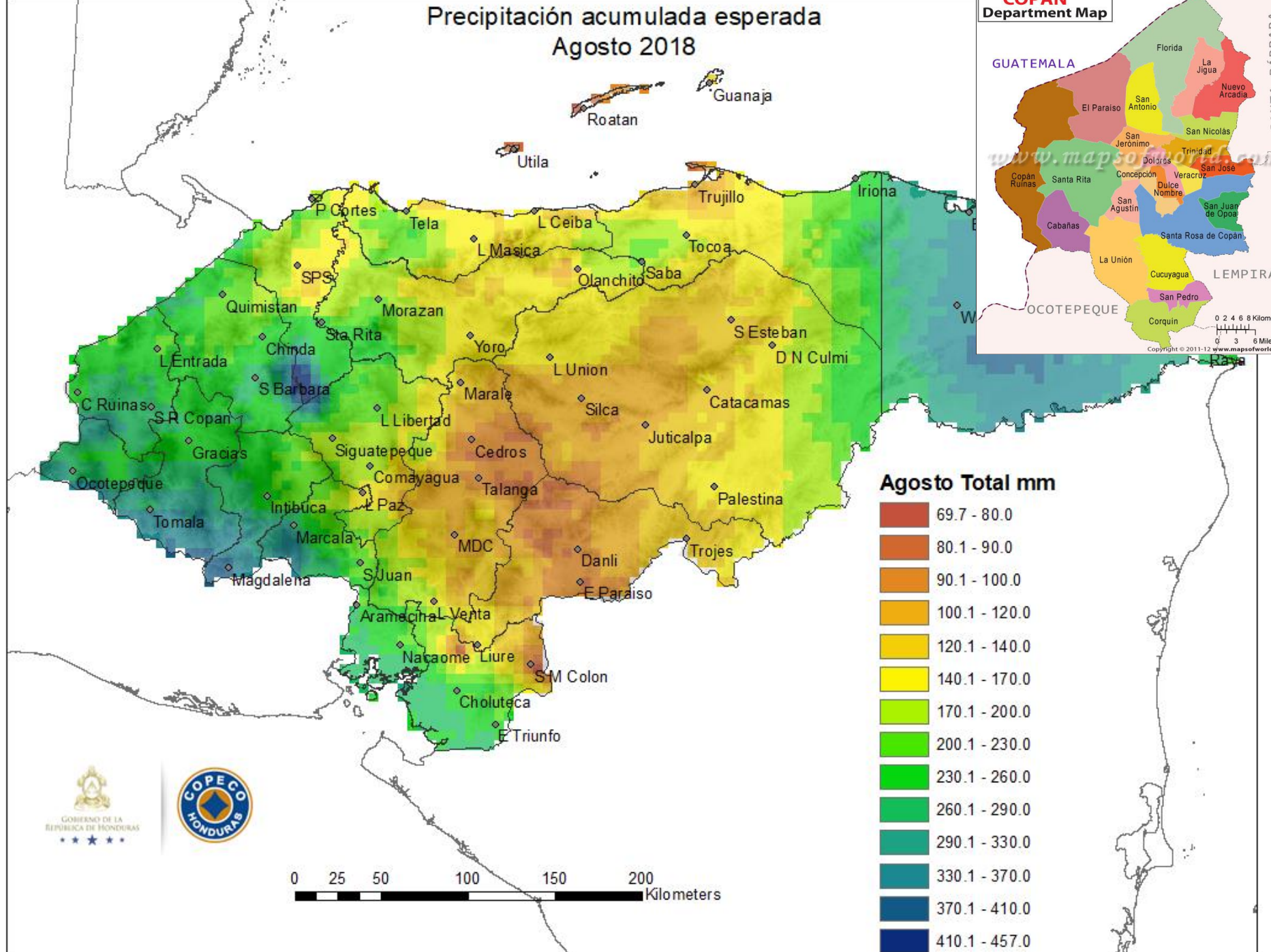
LEMPIRA

OCOTEPEQUE

0 2 4 6 8 Kilometers

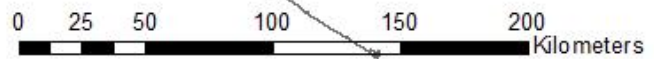
0 3 6 Miles

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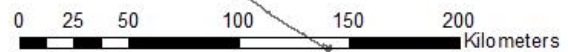
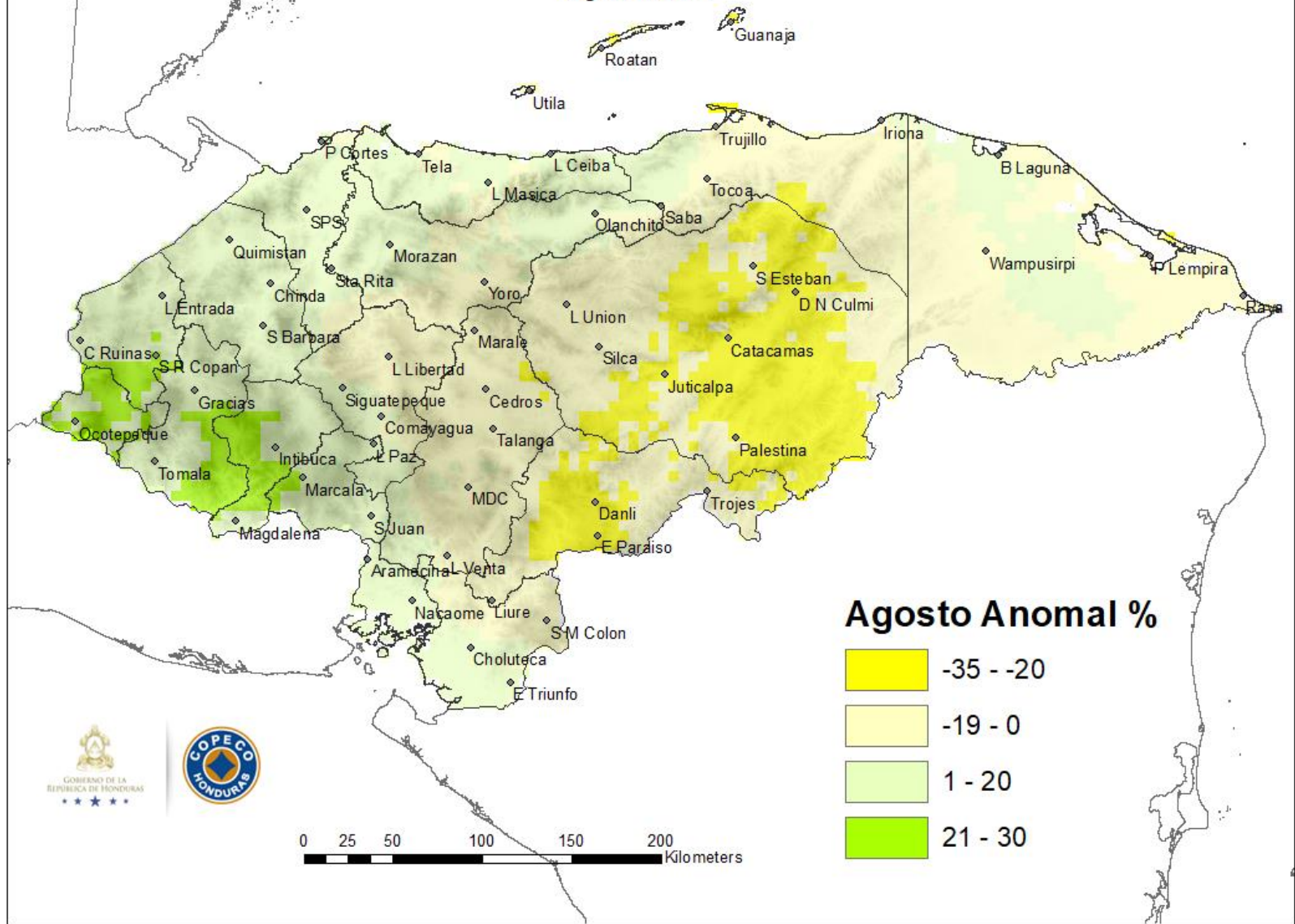


Agosto Total mm

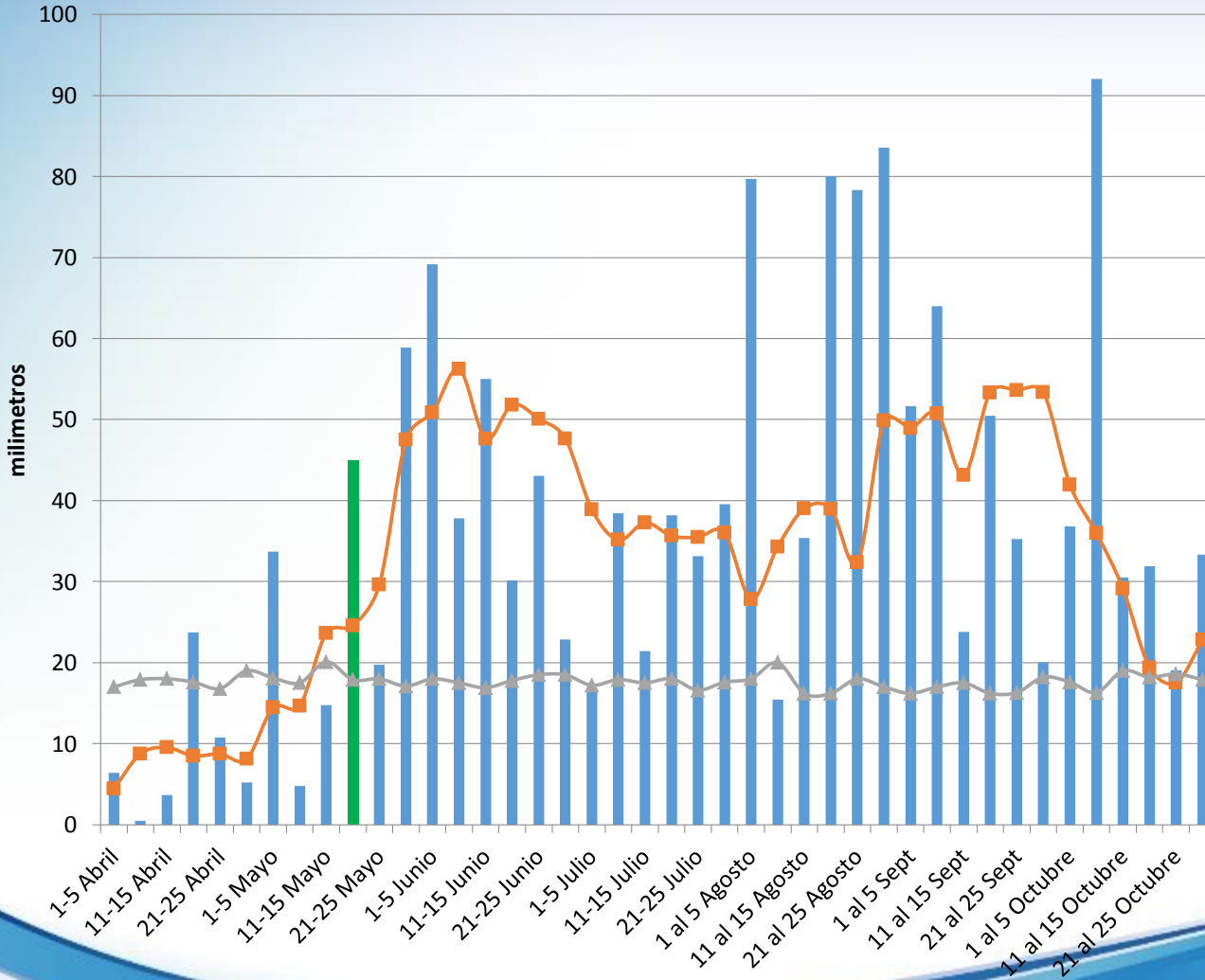
- 69.7 - 80.0
- 80.1 - 90.0
- 90.1 - 100.0
- 100.1 - 120.0
- 120.1 - 140.0
- 140.1 - 170.0
- 170.1 - 200.0
- 200.1 - 230.0
- 230.1 - 260.0
- 260.1 - 290.0
- 290.1 - 330.0
- 330.1 - 370.0
- 370.1 - 410.0
- 410.1 - 457.0



Anomalía de precipitación esperada Agosto 2018



Pronostico de Precipitación Santa Rosa de Copan Abril-Octubre 2018 (analogos 06,12,14)

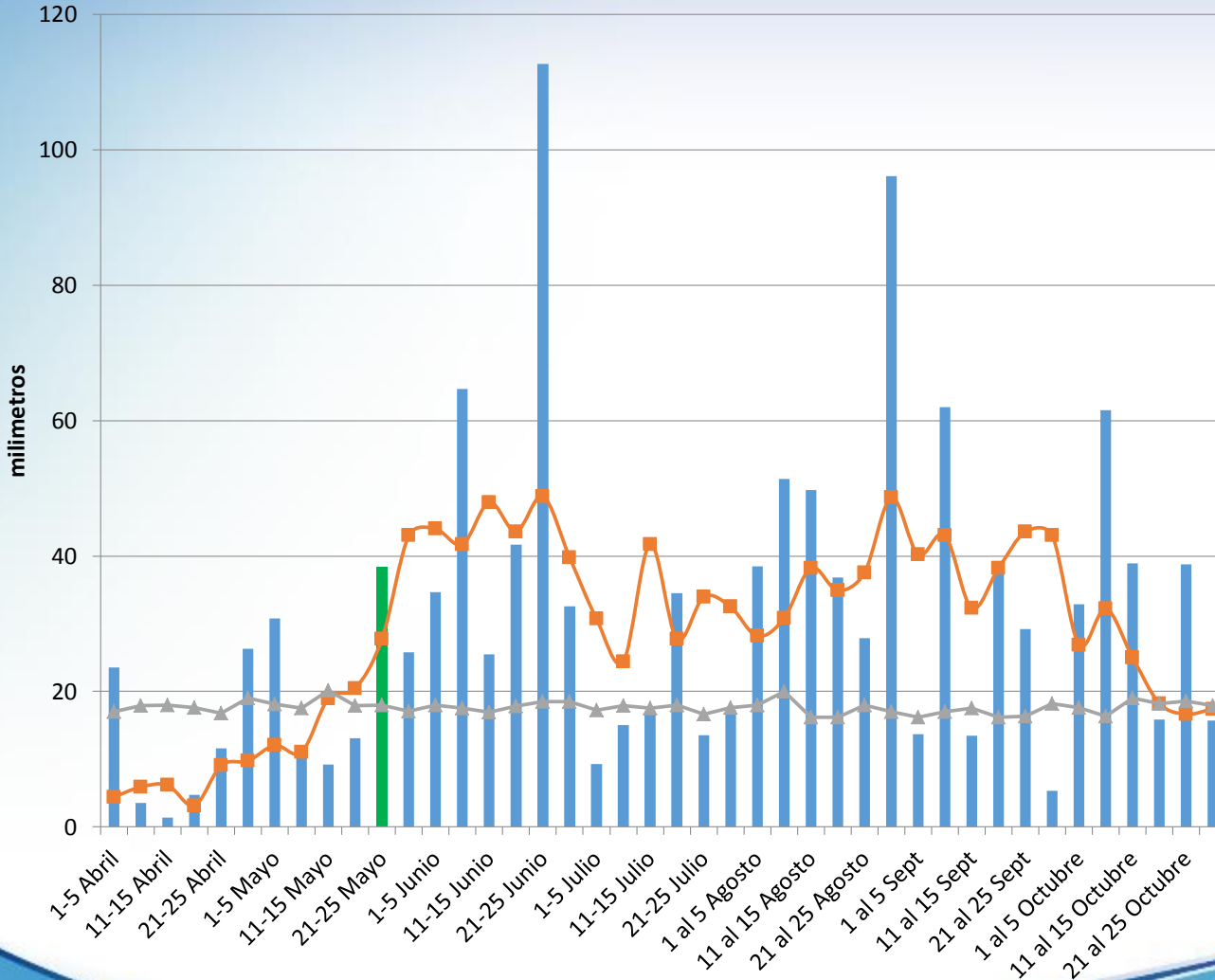


- Pronostico 2018
- Promedio
- ▲ EVTP



★ ★ ★ ★ ★
COMISIÓN PERMANENTE
DE CONTINGENCIAS

Pronóstico de precipitación La Entrada Abr-Oct 2018 (analogos 06,12,14)



- Pronostico 2018
- Promedio
- ▲ EVTP



★ ★ ★ ★ ★
COMISIÓN PERMANENTE DE CONTINGENCIAS

¿Como se forman los huracanes?



Actividad ciclónica 2018

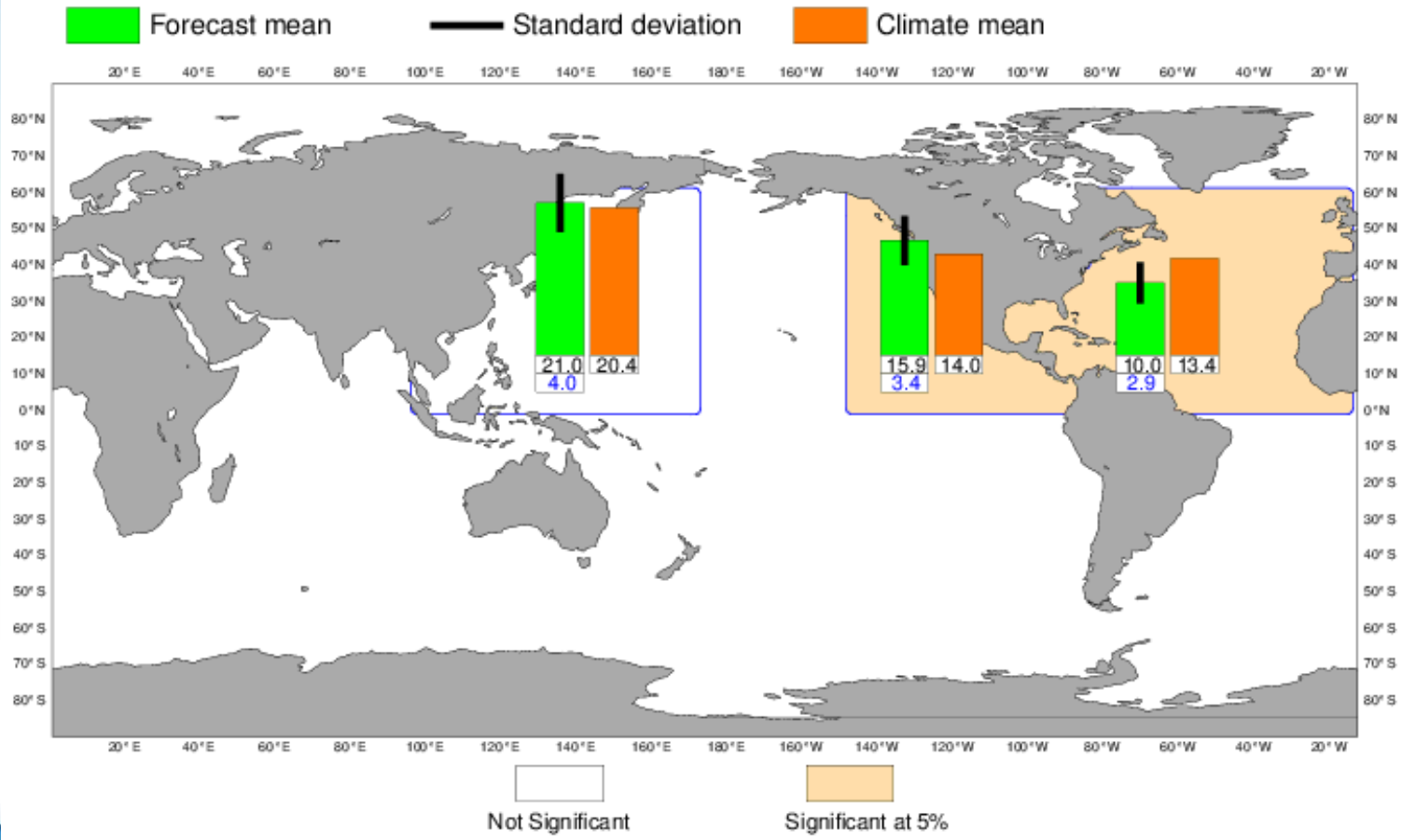
OCÉANO ATLÁNTICO

Modelo	Tormentas Tropicales (12)	Huracanes (7)	Intensos (2)
Universidad de Colorado	14	7	3
University College London	15	7	3

Pronóstico de ciclones tropicales

ECMWF Seasonal Forecast
Tropical Storm Frequency
Forecast start reference is 01/05/2018
Ensemble size = 51, climate size = 575

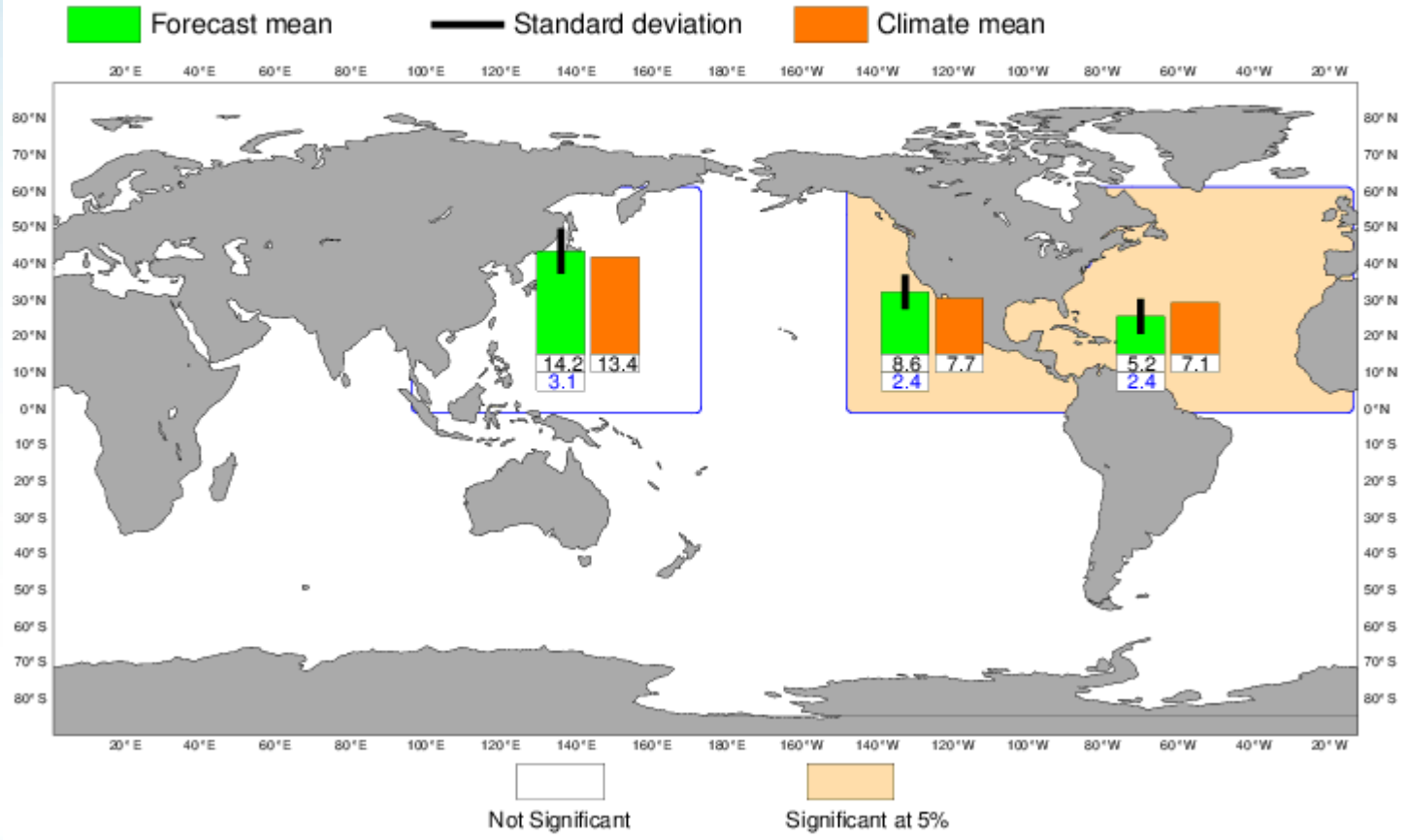
System 5
JJASON 2018
Climate (initial dates) = 1993-2015



La temporada ciclónica podría ser inferior (10) al promedio (13.4).

ECMWF Seasonal Forecast
Hurricane or typhoon Frequency
Forecast start reference is 01/05/2018
Ensemble size = 51, climate size = 575

System 5
JJASON 2018
Climate (initial dates) = 1993-2015



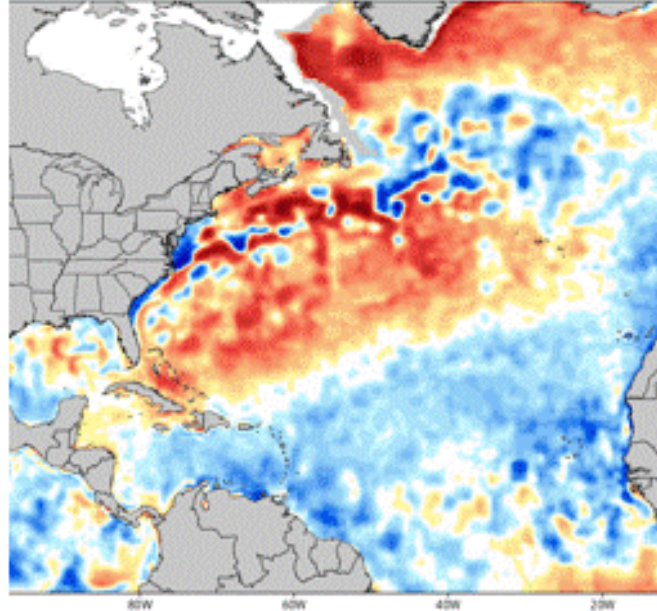
Se podrían formar menos huracanes(5.2) que el promedio (7.1).

Philip Klotzbach @philklotzbach · 2 may.

The tropical Atlantic is quite cold right now - if these cold SSTs were to persist, it could point towards a quieter Atlantic #hurricane season. @TropicalTidbits

Traducir Tweet

Sea Surface Temperature Anomaly (°C) (based on CFSR 1981-2010 Climatology)
5r May 02 2018



TROPICAL Atlantic MDR Sea Surface Temperature Anomaly [85W-



29 176 332

El océano Atlántico está un poco frío, si las temperaturas frías persisten, podría presentarse una temporada de huracanes baja.

Resumiendo...

Las lluvias de Mayo y Junio registrarían acumulados favorables.

La Estación Lluviosa podría establecerse entre el 16 al 20 de Mayo.

La Canícula iniciaría entre el 1 al 5 de julio y finalizaría entre el 25 al 30 de julio.

En Julio se observa que habría disminución de las lluvias en comparación a mayo y junio.

La canícula tendría efectos leves sobre las lluvias de julio, su duración para Copan sería entre 25 y 30 días.

Los acumulados de lluvia de cada 5 días de julio serían levemente inferiores a la evapotranspiración (humedad que se pierde del suelo y de las plantas), y al haber menos días lluviosos en este mes no se descarta que esto cree estrés en cultivos dependiendo de su etapa.