

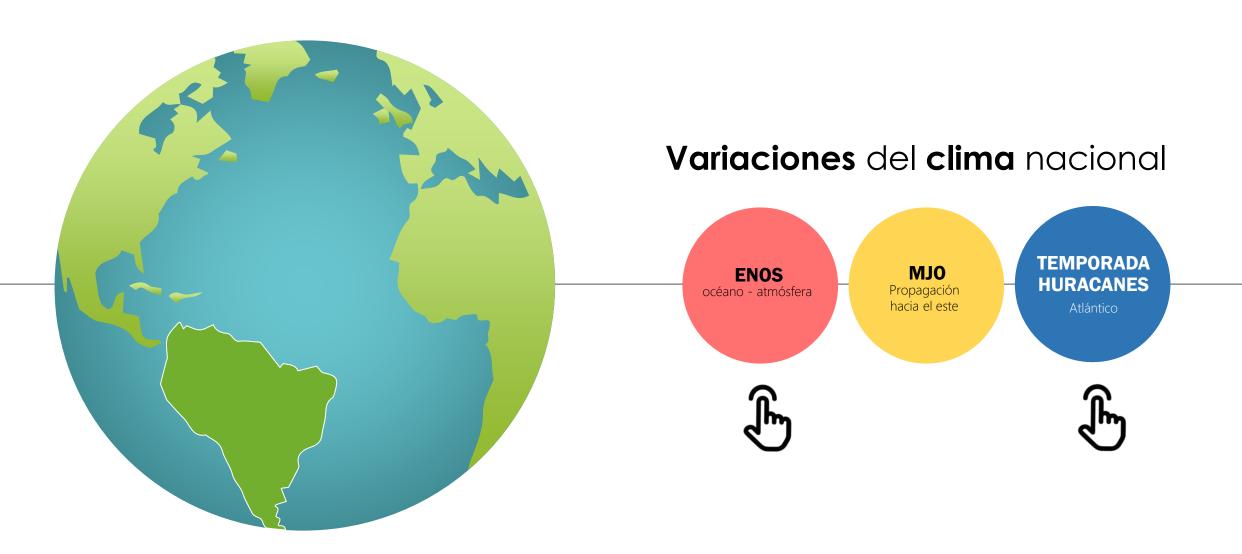


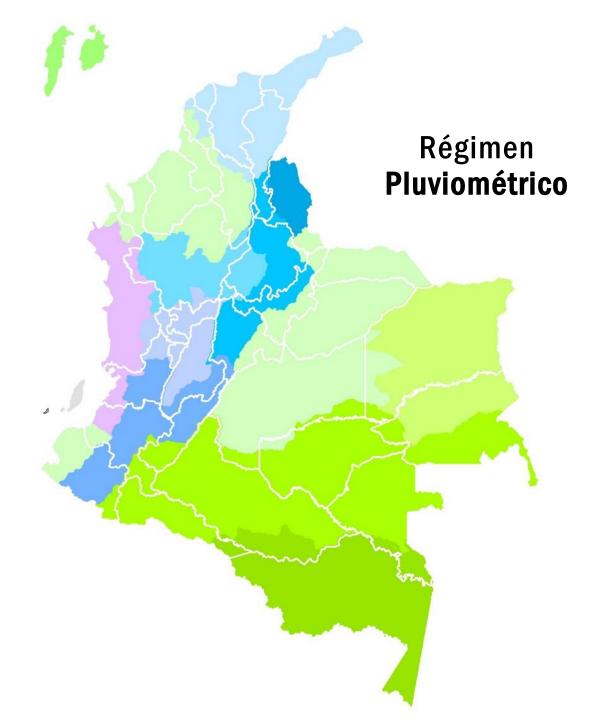
Seguimiento y Predicción Climática

03 | 08 | 23 CNO 709

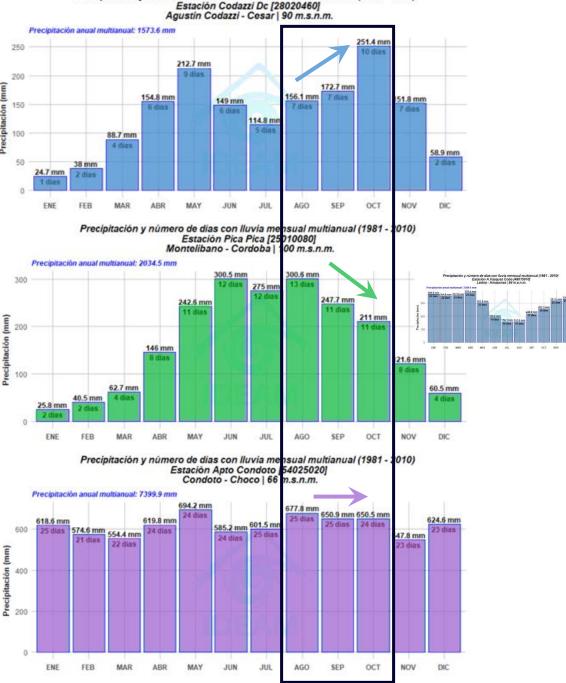








Precipitación y número de dias con lluvia mensual multianual (1981 - 2010) Estación Codazzi Dc [28020460] Agustin Codazzi - Cesar | 90 m.s.n.m.

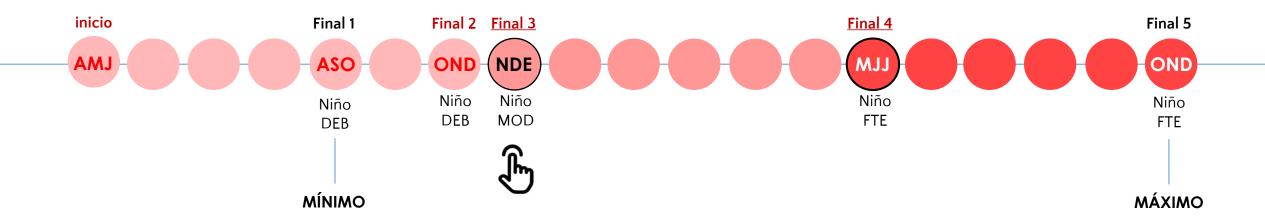




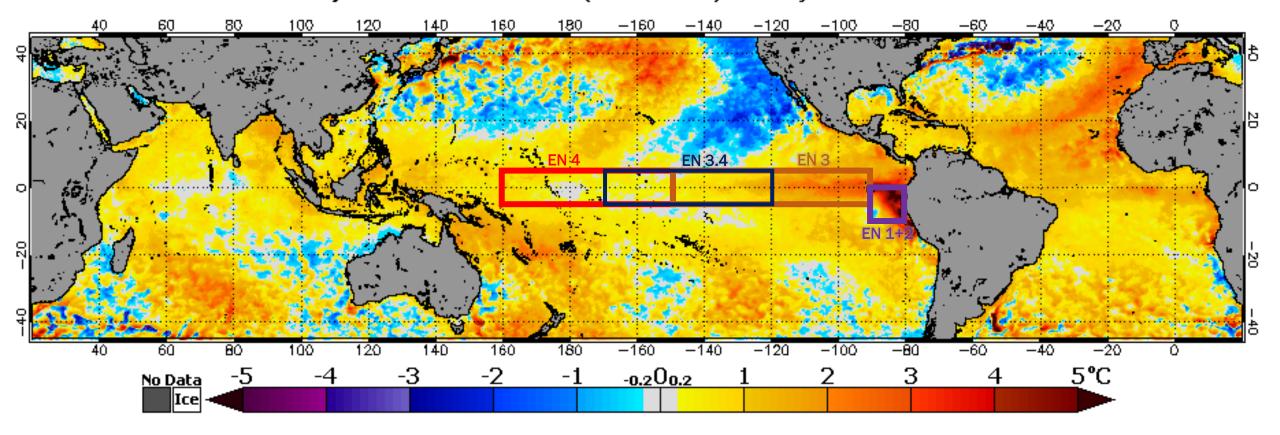
Duración El Niño 2023-2024

Con base en el ONI - Preliminar

EL NIÑO	D	M	F
TOTAL EVENTOS	9	5	9
TOTAL MESES - MÍNIMO	5	7	9
TOTAL MESES - PROMEDIO	7	8	14
TOTAL MESES - MÁXIMO	13	9	19



NOAA Coral Reef Watch Daily 5km SST Anomalies (Version 3.1) 4 May 2023



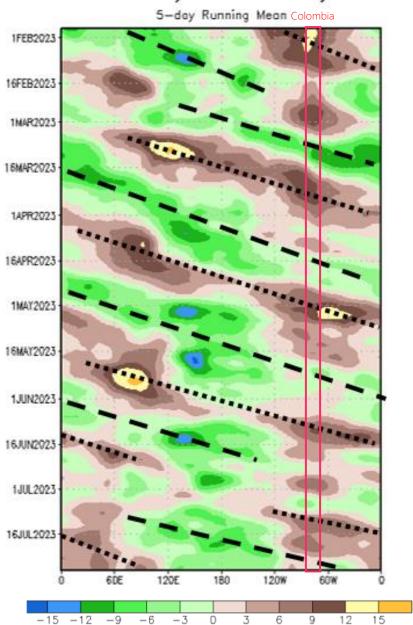


1. SISTEMA CLIMÁTICO MJO | TEMPORADA HURACANES | ENOS

MJO Intraestacional

JulioPredominio de fase <u>subsidente</u>.

200-hPa Velocity Potential Anomaly: 5N-5S





Favorece Convección



Inhibe Convección

27 Ondas 5 Depresiones 5 Tormentas 1 Huracán



TEMPORADA HURACANES Atlántico

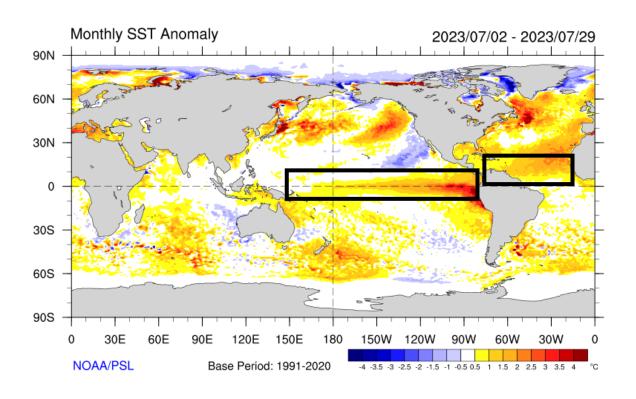
Varias ondas transitando y transportando humedad.

Desde el 15 de mayo han transitado 27 ondas.



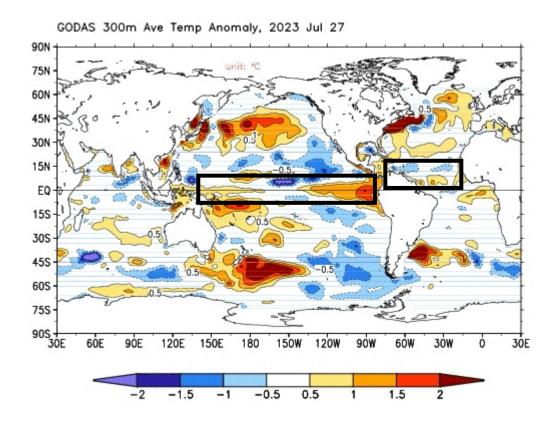
COMPORTAMIENTO OCEÁNICO

CAMPO TÉRMICO SUPERFICIAL



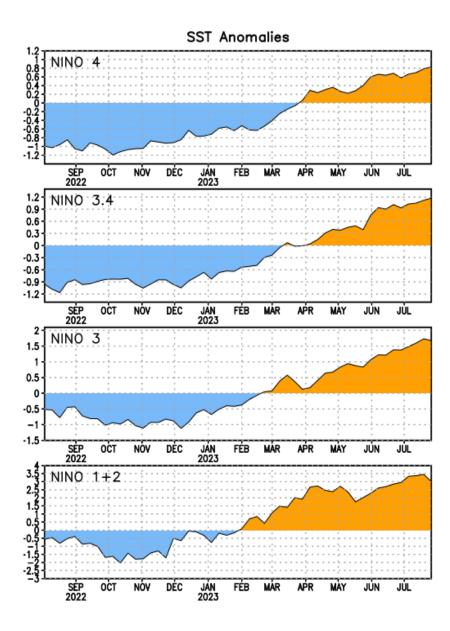
Región	Semana Anterior	Semana Actual		
Niño 3.4	1.1 °C	1.2 °C		

CAMPO TÉRMICO SUBSUPERFICIAL

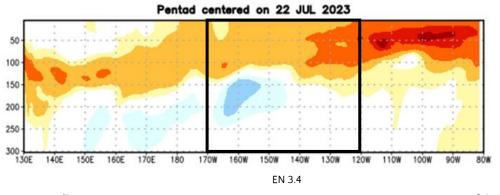




Anomalías de Temperatura Superficial del Mar

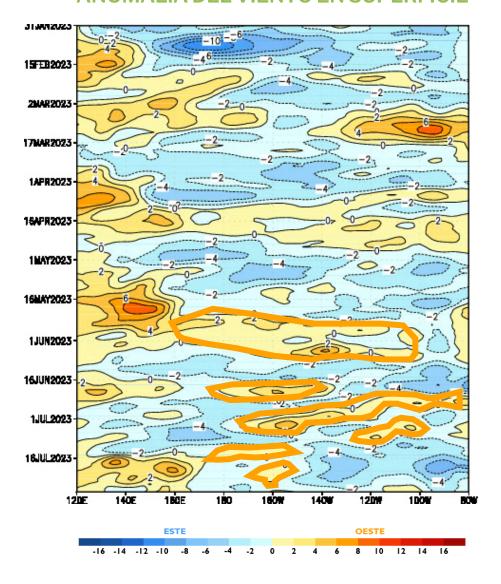


Anomalías de Temperatura Subsuperficial del Mar

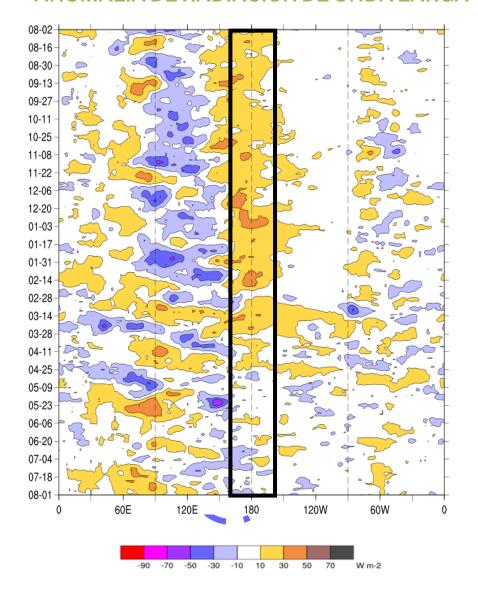


Australia Suramérica

ANOMALÍA DEL VIENTO EN SUPERFICIE



ANOMALÍA DE RADIACIÓN DE ONDA LARGA



INDICADORES DEL CICLO ENOS

MEIv2

Índice Multivariado del Ciclo El Niño -Oscilación del Sur.

Basado en:
I. Presión del Nivel del Mar.
2. Temperatura Superficial del Mar.
3. Componente Zonal de Viento (este-oeste).
4. Componente Meridional del Viento (norte-sur).
5. Radiación de Onda Larga.

Condición más reciente

MJ: Neutral

Interpretación

Valores ≥ 0.5 El Niño

Valores >-0.5 < 0.5 **Neutral**

Valores ≤ -0.5 **La Niña**

ONI – ERSST.v5 Indicador El Niño.

Basado en:

1. Temperatura Superficial del Mar.

Condición más reciente **AMJ:** Niño

Tabla No. I

MEIv2 https://www.esrl.noaa.gov/psd/enso/mei/

	DE	EF	FM	MA	AM	MJ	JJ	JA	AS	so	ON	ND
2010	0.9	1.3	1.3	0.5	-0.2	-1.3	-2.4	-2.4	-2.3	-2.2	-2	-1.9
2011	-1.8	-1.6	-1.8	-1.7	-1.3	-1.1	-0.9	-0.9	-1.2	-1.4	-1.2	-1.2
2012	-1.1	-0.7	-0.6	-0.4	-0.3	-0.3	0.3	-0.1	-0.3	-0.2	-0.1	-0.1
2013	0	-0.1	-0.1	-0.4	-0.7	-1.2	-0.8	-0.5	-0.4	-0.2	-0.2	-0.3
2014	-0.5	-0.4	-0.1	-0.2	-0.2	0	0.3	0.2	-0.1	0.1	0.3	0.3
2015	0.2	0.1	0.1	0.4	1	1.9	1.7	1.9	2.2	2.1	1.9	1.9
2016	1.9	1.8	1.3	1.3	1.3	0.4	-0.5	-0.3	-0.3	-0.6	-0.5	-0.3
2017	-0.4	-0.4	-0.6	-0.2	0.2	-0.3	-0.7	-0.8	-0.8	-0.6	-0.6	-0.7
2018	-0.8	-0.7	-0.8	-1.3	-0.9	-0.5	-0.2	0.4	0.5	0.4	0.3	0.1
2019	0.1	0.5	8.0	0.3	0.3	0.4	0.2	0.3	0.2	0.3	0.5	0.4
2020	0.3	0.3	0.2	-0.1	-0.2	-0.7	-1.0	-1.0	-1.2	-1.2	-1.1	-1.2
2021	-1.2	-0.9	-0.8	-1	-1.1	-1.1	-1.5	-1.3	-1.4	-1.5	-1.4	-1.2
2022	-1	-1	-1.3	-1.6	-1.7	-1.9	-2.2	-1.8	-1.8	-1.7	-1.5	-1.3
2023	-1.1	-0.8	-0.7	-0.4	-0.1	0.2						

Tabla No. 2

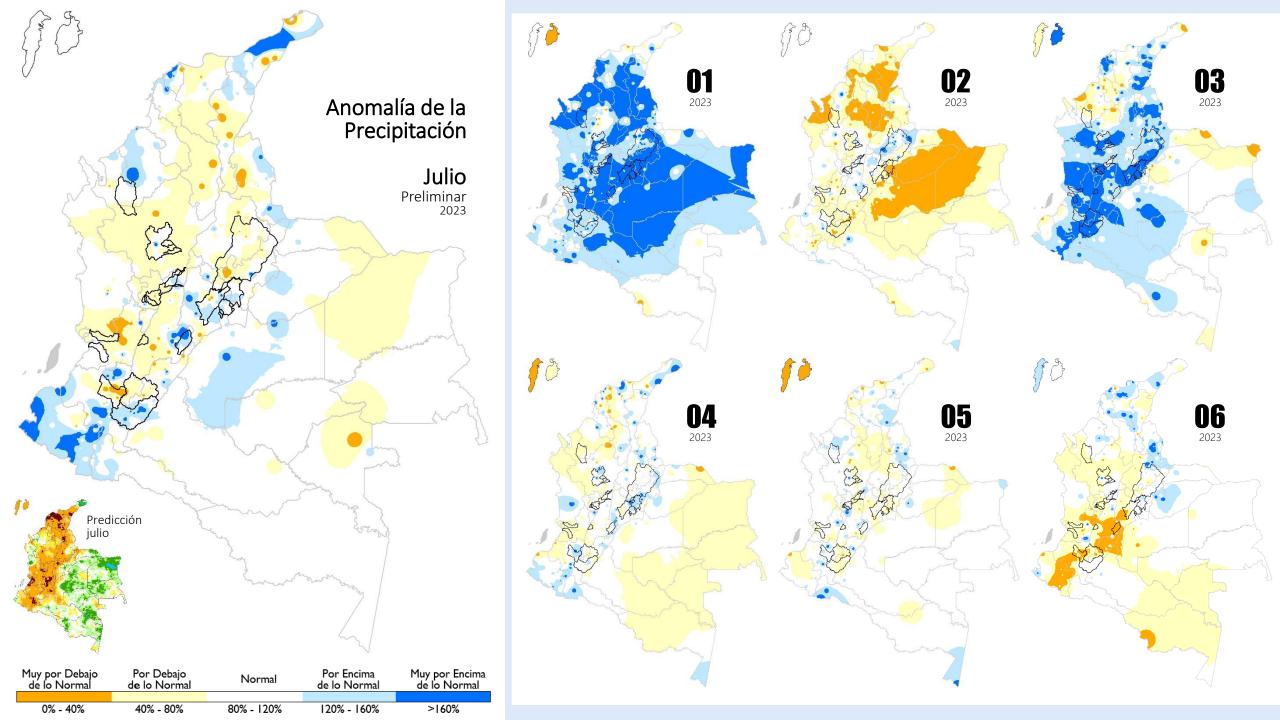
ONI - ERSST.v5
https://origin.cpc.ncep.noaa.gov/products/analysis monitoring/ensostuff/ONI v5.php

	DEF	EFM	FMA	MAM	AMJ	MJJ	JJA	JAS	ASO	SON	OND	NDE
2010	1.5	1.3	0.9	0.4	-0.1	-0.6	-1.0	-1.4	-1.6	-1.7	-1.7	-1.6
2011	-1.4	-1.1	-0.8	-0.6	-0.5	-0.4	-0.5	-0.7	-0.9	-1.1	-1.1	-1.0
2012	-0.8	-0.6	-0.5	-0.4	-0.2	0.1	0.3	0.3	0.3	0.2	0.0	-0.2
2013	-0.4	-0.3	-0.2	-0.2	-0.3	-0.3	-0.4	-0.4	-0.3	-0.2	-0.2	-0.3
2014	-0.4	-0.4	-0.2	0.1	0.3	0.2	0.1	0.0	0.2	0.4	0.6	0.7
2015	0.6	0.6	0.6	0.8	1.0	1.2	1.5	1.8	2.1	2.4	2.5	2.6
2016	2.5	2.2	1.7	1.0	0.5	0.0	-0.3	-0.6	-0.7	-0.7	-0.7	-0.6
2017	-0.3	-0.1	0.1	0.3	0.4	0.4	0.2	-0.1	-0.4	-0.7	-0.9	-1.0
2018	-0.9	-0.8	-0.6	-0.4	-0.1	0.1	0.1	0.2	0.4	0.7	0.9	8.0
2019	8.0	0.8	8.0	0.7	0.6	0.5	0.3	0.1	0.1	0.3	0.5	0.5
2020	0.5	0.6	0.4	0.3	0.0	-0.2	-0.4	-0.6	-1.0	-1.2	-1.3	-1.2
2021	-1.1	-0.9	-0.8	-0.7	-0.5	-0.4	-0.4	-0.5	-0.7	-0.8	-1.0	-1.0
2022	-1.0	-0.9	-1.0	-1.1	-1.0	-0.9	-0.8	-0.9	-1.0	-1.0	-0.9	-0.8
2023	-0.7	-0.4	-0.1	0.2	0.5							

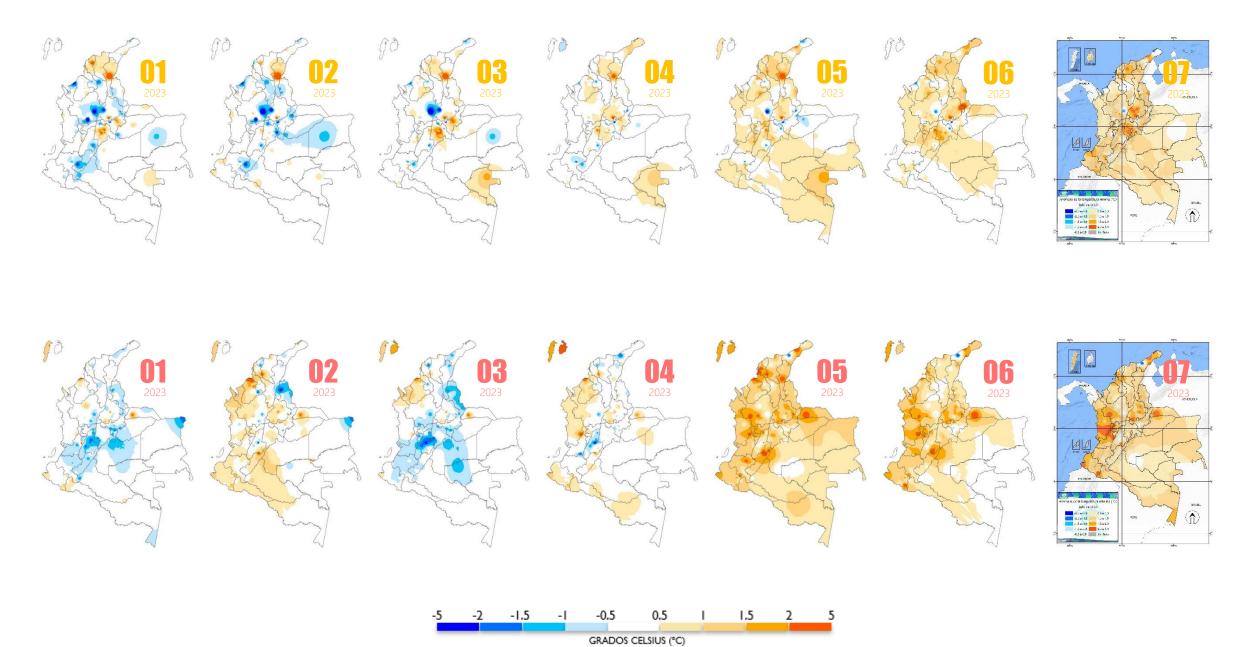




2. SEGUIMIENTO CLIMÁTICO



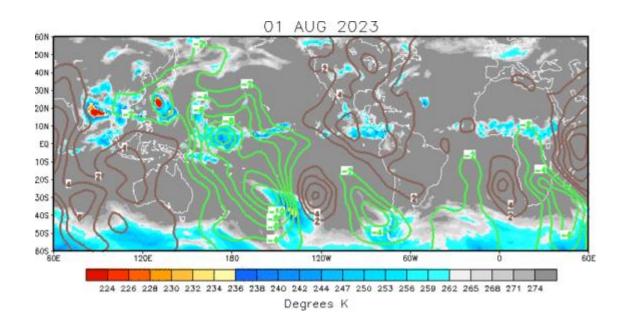
Anomalía de las temperaturas extremas (mínimas y máximas)





3. PREDICCIÓN CLIMÁTICA AGO | SEP | OCT

MJO+



Fase Actual Subsidente

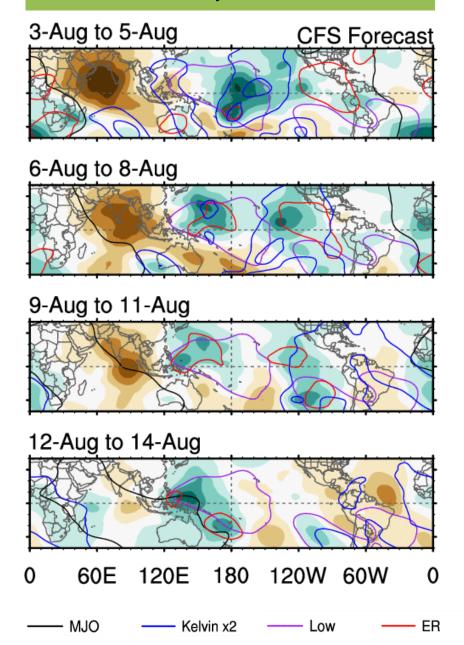
03 - 14 Favorable

ONDAS ECUATORIALES

+ nubes

- nubes

Proyección



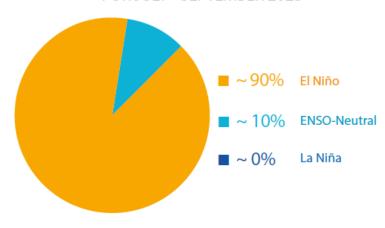
Temporada de Huracanes



Source	Date	Named storms	Hurricanes	Major hurricanes	
Ave	erage (1991–2020)	14.4	7.2	3.2	
Rec	ord high activity	30	15	7†	
Red	cord low activity	1	0†	0†	
TSR	December 6, 2022	13	6	3	
TSR	April 6, 2023	12	6	2	
UA	April 7, 2023	19	9	5	
CSU	April 13, 2023	13	6	2	
TWC	April 13, 2023	15	7	3	
NCSU	April 13, 2023	11–15	6–8	2–3	
MU	April 27, 2023	15	7	3	
UPenn	May 1, 2023	12-20	N/A	N/A	
SMN	May 4, 2023	10–16	3–7	2–4	
NOAA	May 25, 2023	12–17	5–9	1–4	
UKMO*	May 26, 2023	20	11	5	
TSR	May 31, 2023	13	6	2	
CSU	June 1, 2023	15	7	3	
UA	June 16, 2023	25	12	6	
TWC	June 17, 2023	17	9	4	
CSU	July 6, 2023	18	9	4	
TSR	July 7, 2023	17	8	3	
TWC	July 19, 2023	20	10	5	
	Actual activity	5	1	0	

OMM

ESTIMATED ENSO PROBABILITIES FOR JULY - SEPTEMBER 2023



CPC - NOAA

ADVERTENCIA DE EL NIÑO

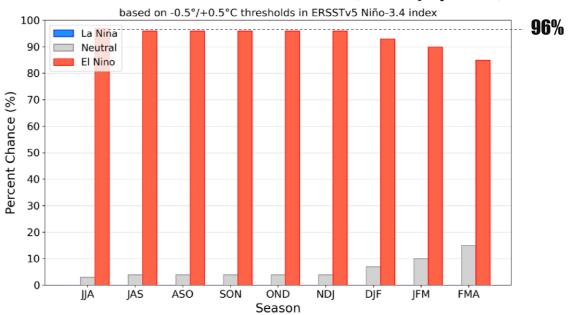
Existe una probabilidad sobre el 90% de que El Niño continúe durante el invierno del hemisferio norte.

81% Niño Moderado

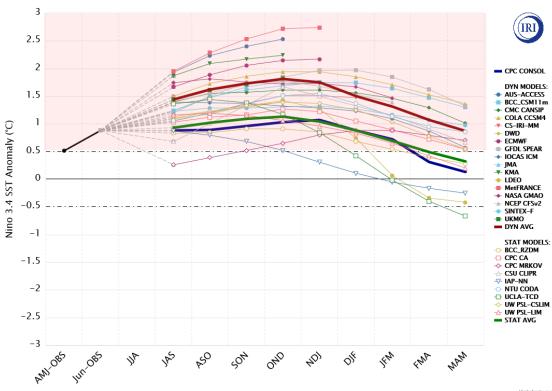
> 1/5 Niño Fuerte

NOAA

Official NOAA CPC ENSO Probabilities (issued July 2023)



Model Predictions of ENSO from Jul 2023

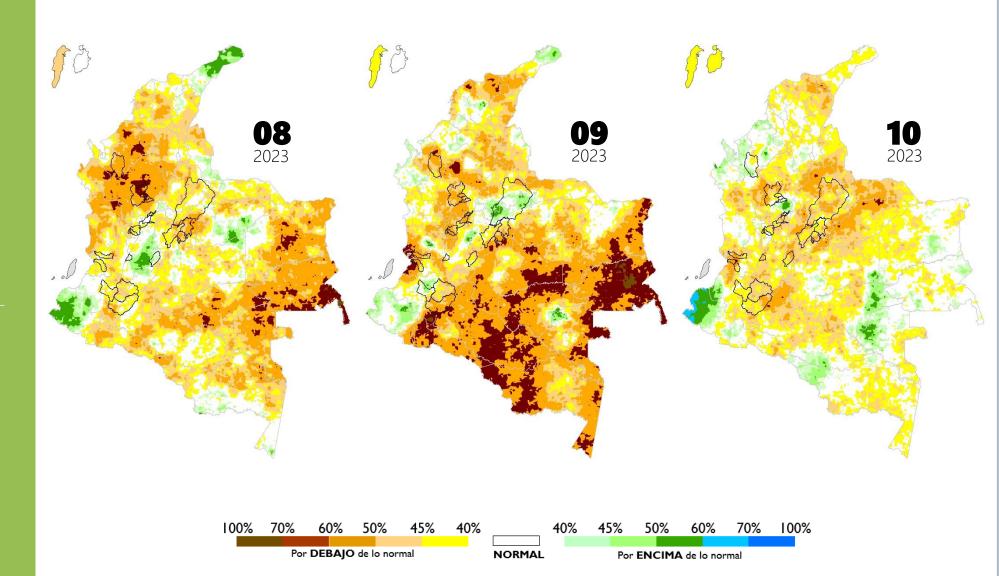


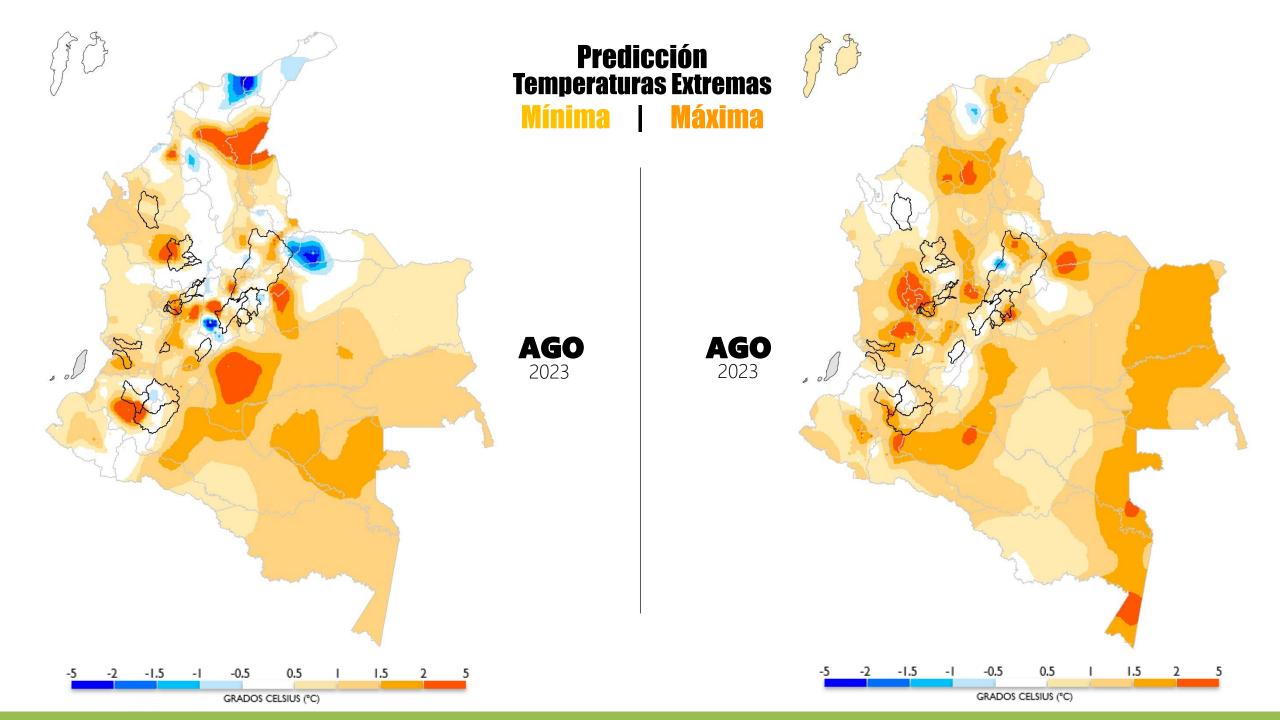
Highcharts.com

Predicción probabilística

Probabilidad que se presente las categorías: por debajo, normal y por encima

AGO - OCT







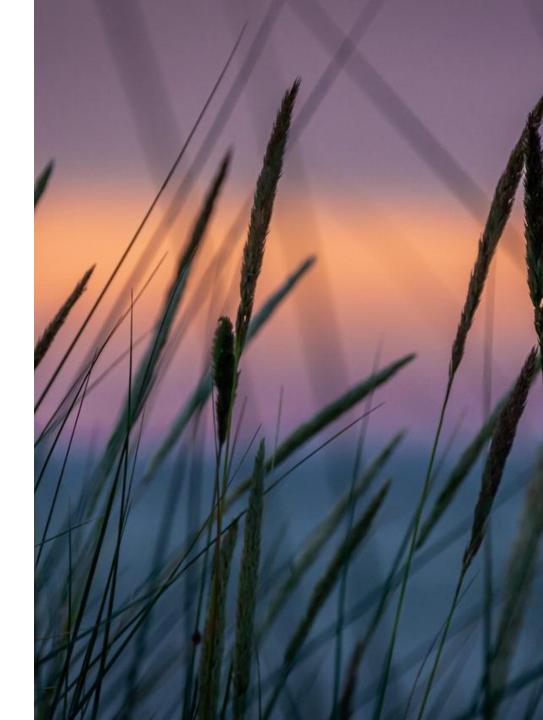
4. CONCLUSIÓN

Lluvias Déficit

50% - 60% Agosto

60% - 70% Septiembre

50%-60%
Octubre

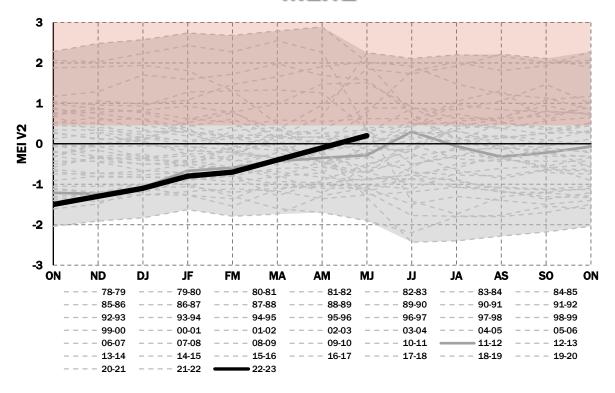




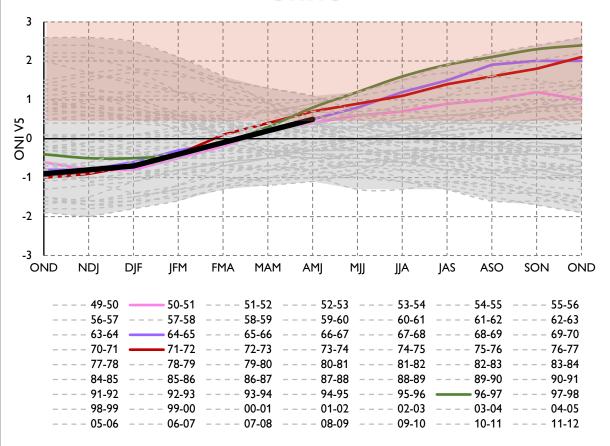


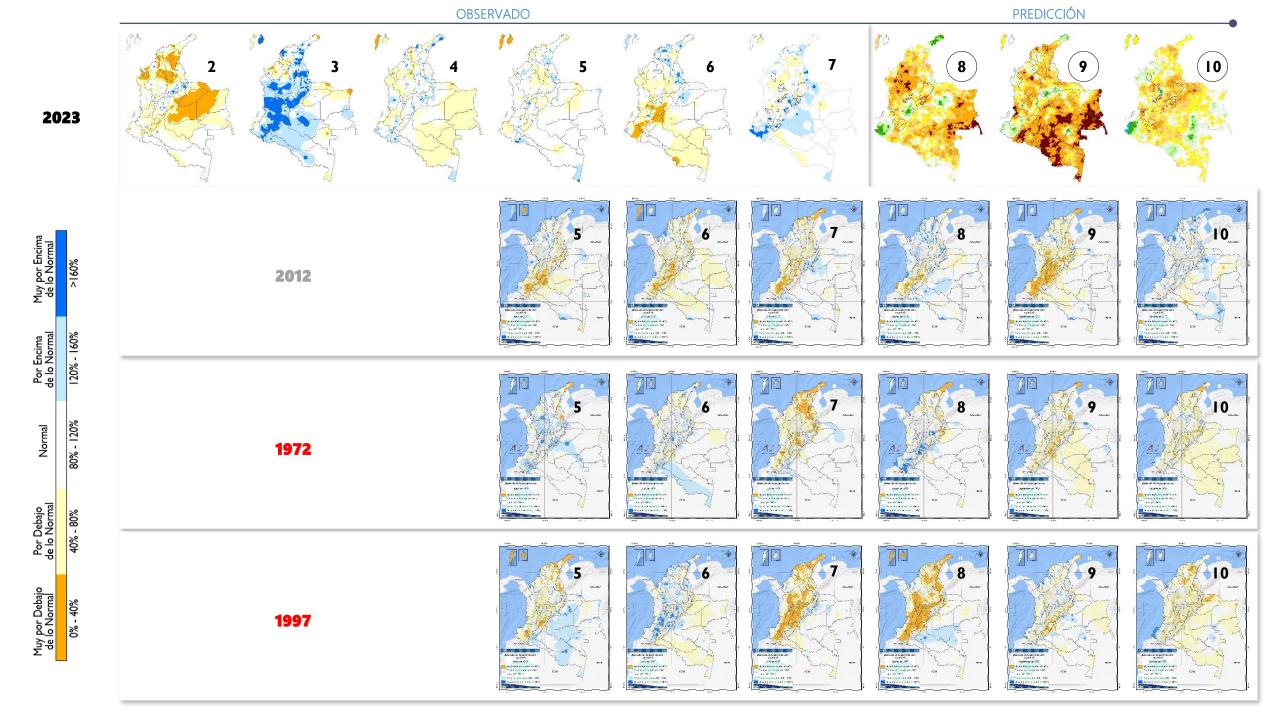
Análogos

MEIv2

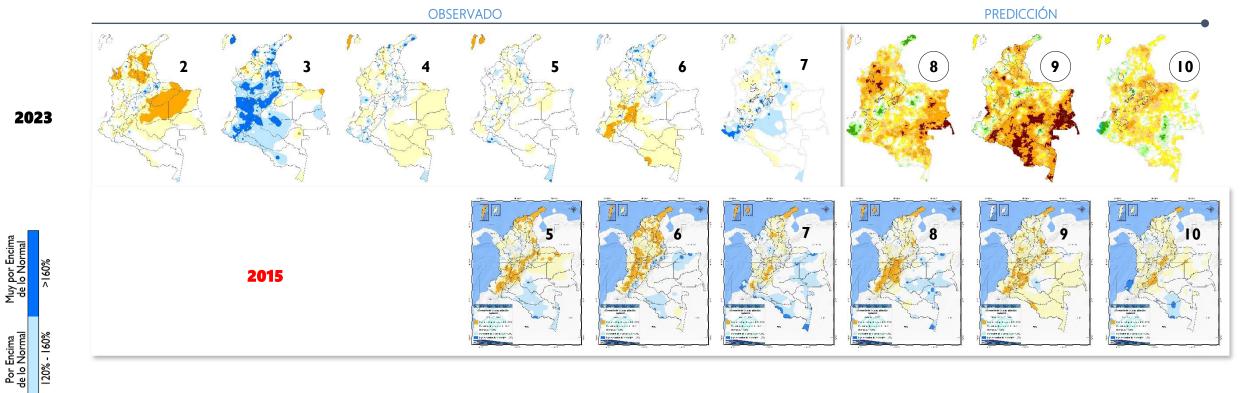


ONIv5





2015 Niño fuerte



Normal

Por Debajo de lo Normal

Muy por Debajo de lo Normal

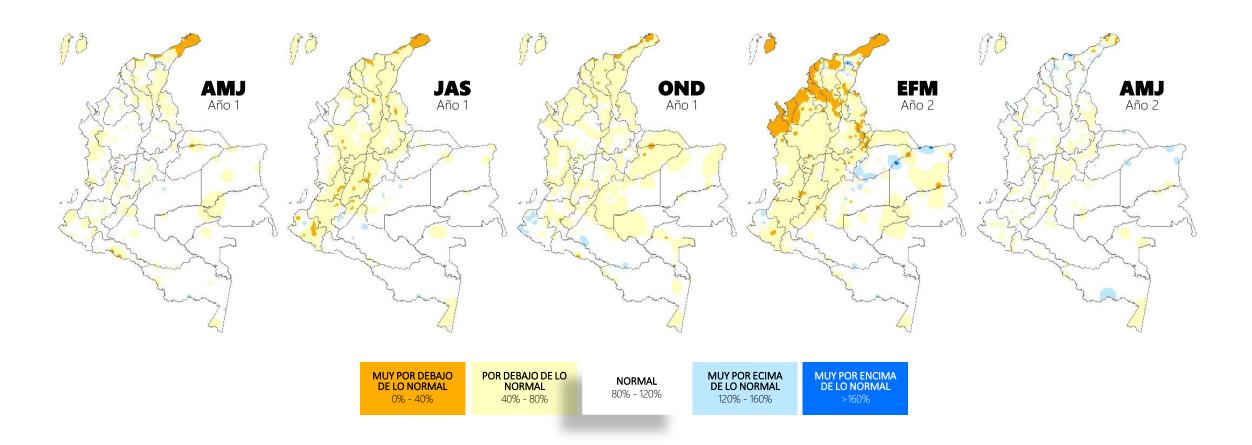




Fenómeno El Niño

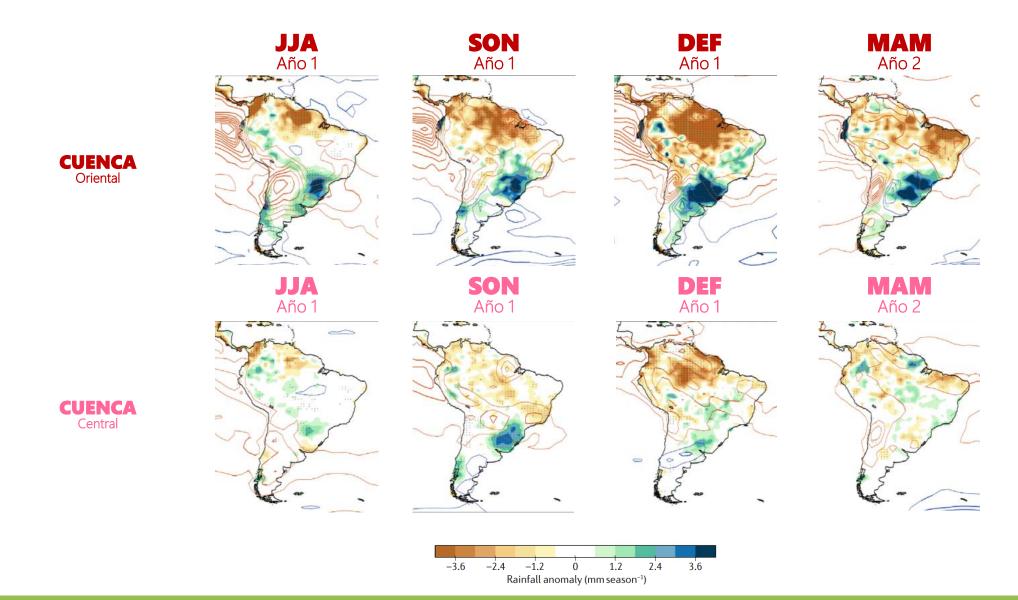
Alteraciones más probables en la precipitación

ante la ocurrencia de un fenómeno El Niño típico



Alteraciones más probables en la precipitación

ante la ocurrencia de un fenómeno El Niño EP | CP







ideamcolombia