

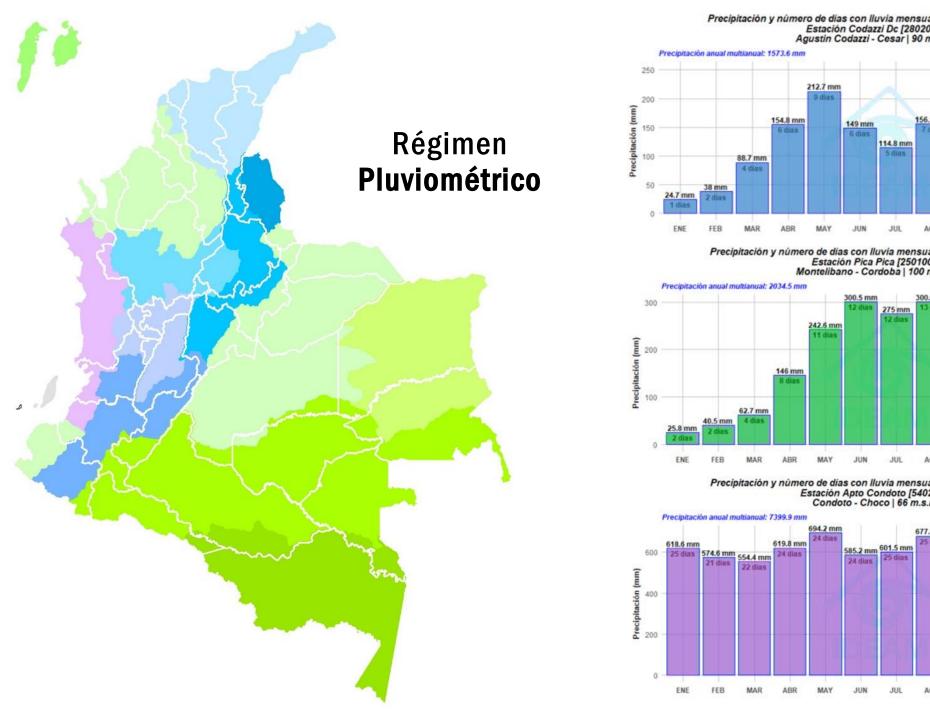


07 | 09 | 23 CNO 714

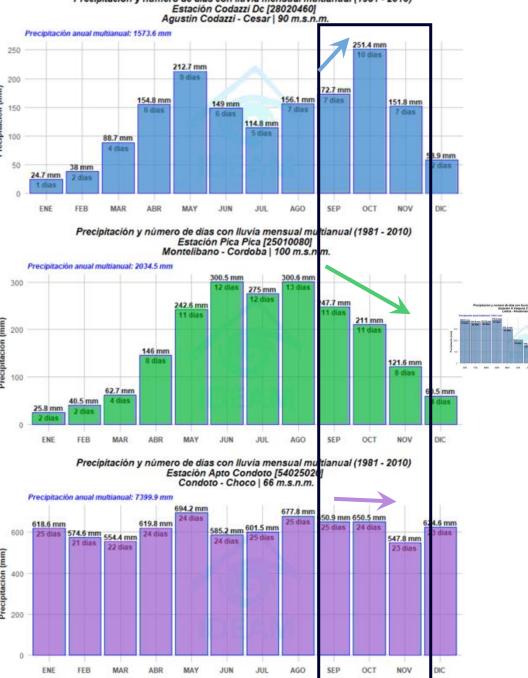
Seguimiento y Predicción Climática







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

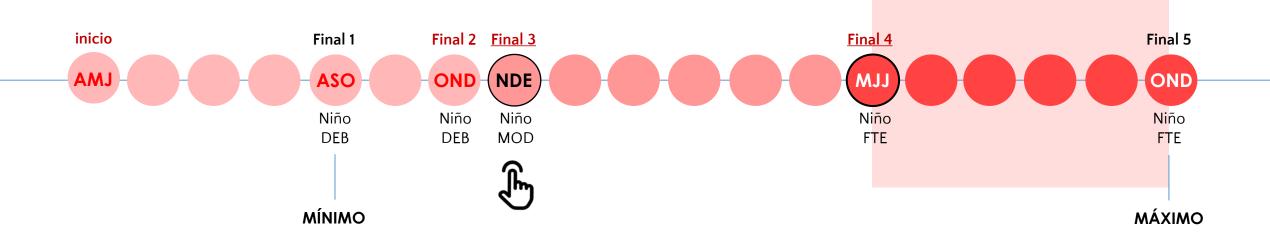




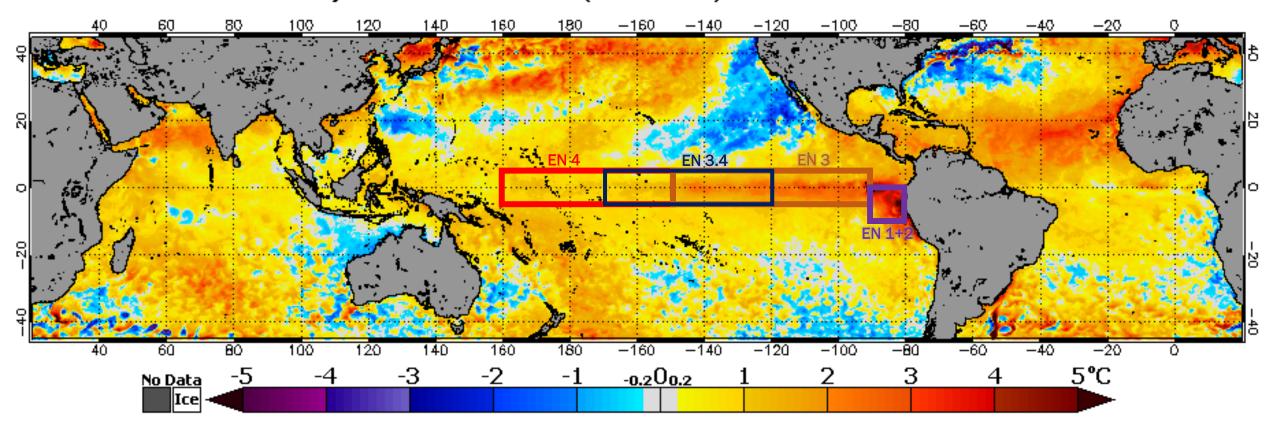
Duración El Niño 2023-2024

Con base en el ONI - Preliminar

EL NIÑO	D	M	F
TT_EVENTOS	9	5	9
TT_MESES_MIN	5	7	9
TT_MESES_PROM	7	8	14
TT_MESES_MAX	13	9	19



NOAA Coral Reef Watch Daily 5km SST Anomalies (Version 3.1) 8 Jun 2023





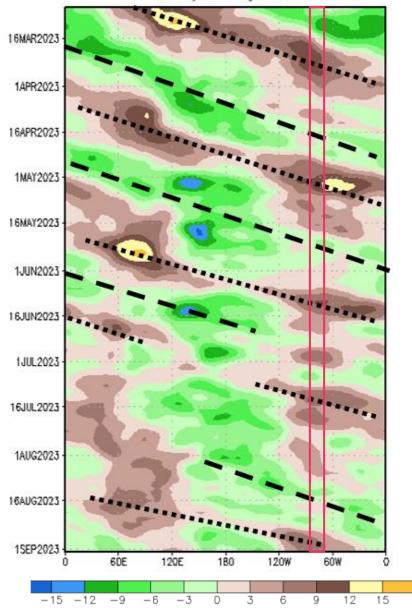
1. SISTEMA CLIMÁTICO MJO | TEMPORADA HURACANES | ENOS

MJO Intraestacional

Agosto
Tránsito de fase
convectiva/subsidente.

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

5-day Running Mean Colombia





Favorece Convección



Inhibe Convección



COLOMBIA POTENCIA DE LA VIDA 13 Depresiones 13 Tormentas

4 Huracán



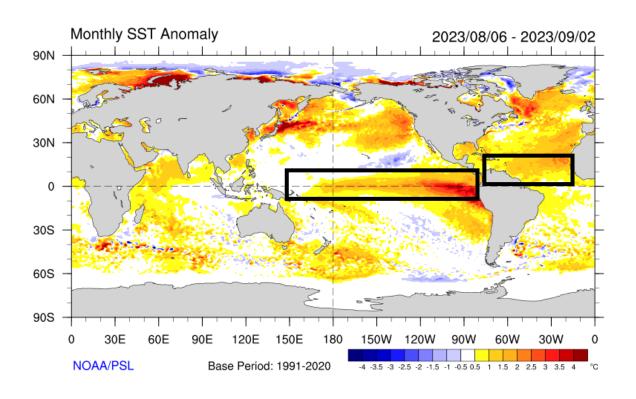
TEMPORADA HURACANES Atlántico

Varias ondas transitando y transportando humedad.

Desde el 15 de mayo han transitado <u>37</u> ondas.

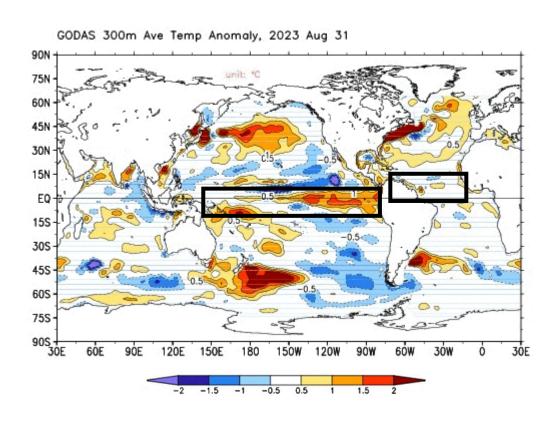
COMPORTAMIENTO OCEÁNICO

CAMPO TÉRMICO SUPERFICIAL



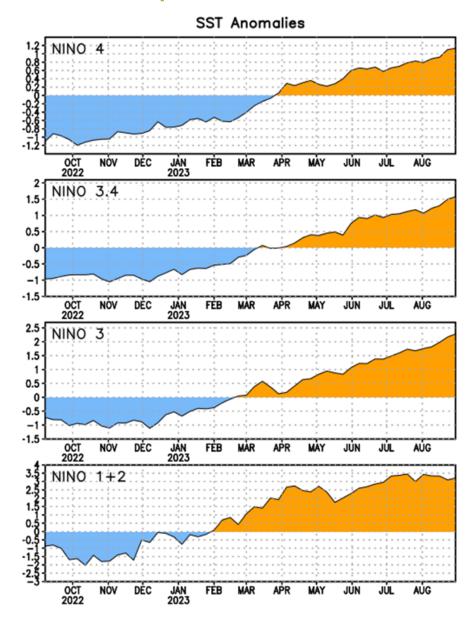
Región	Semana Anterior	Semana Actual
Niño 3.4	1.5 °C	1.6 °C

CAMPO TÉRMICO SUBSUPERFICIAL

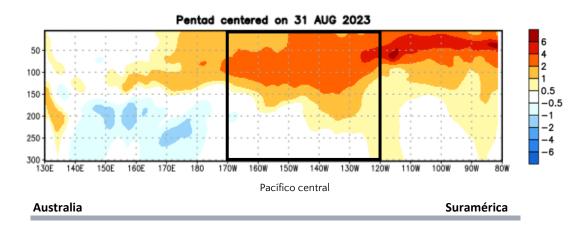




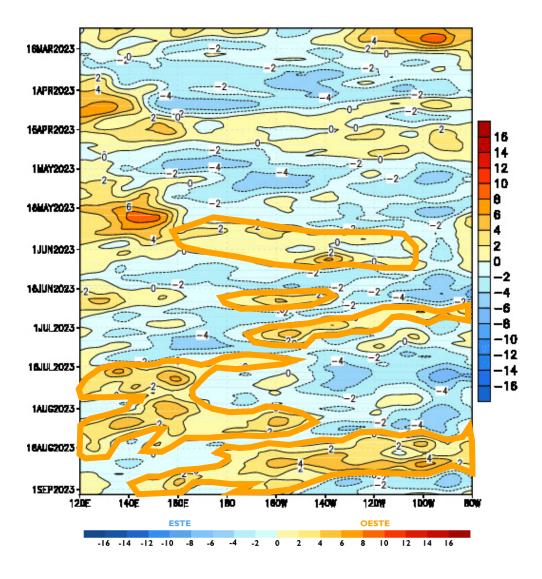
Anomalías de Temperatura Superficial del Mar



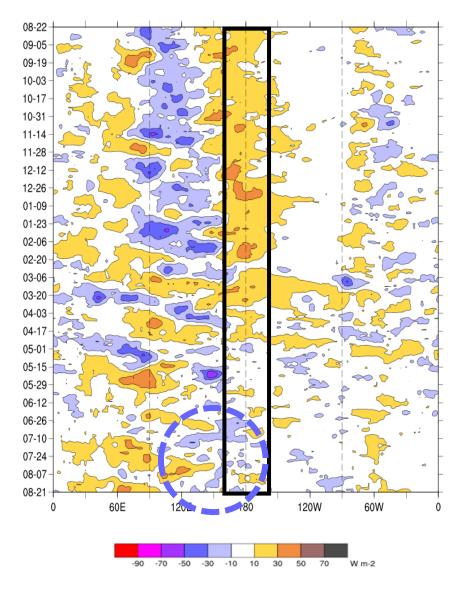
Anomalías de Temperatura Subsuperficial del Mar



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

JJ: 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

JJA: 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	0.3					

Tabla No. 2

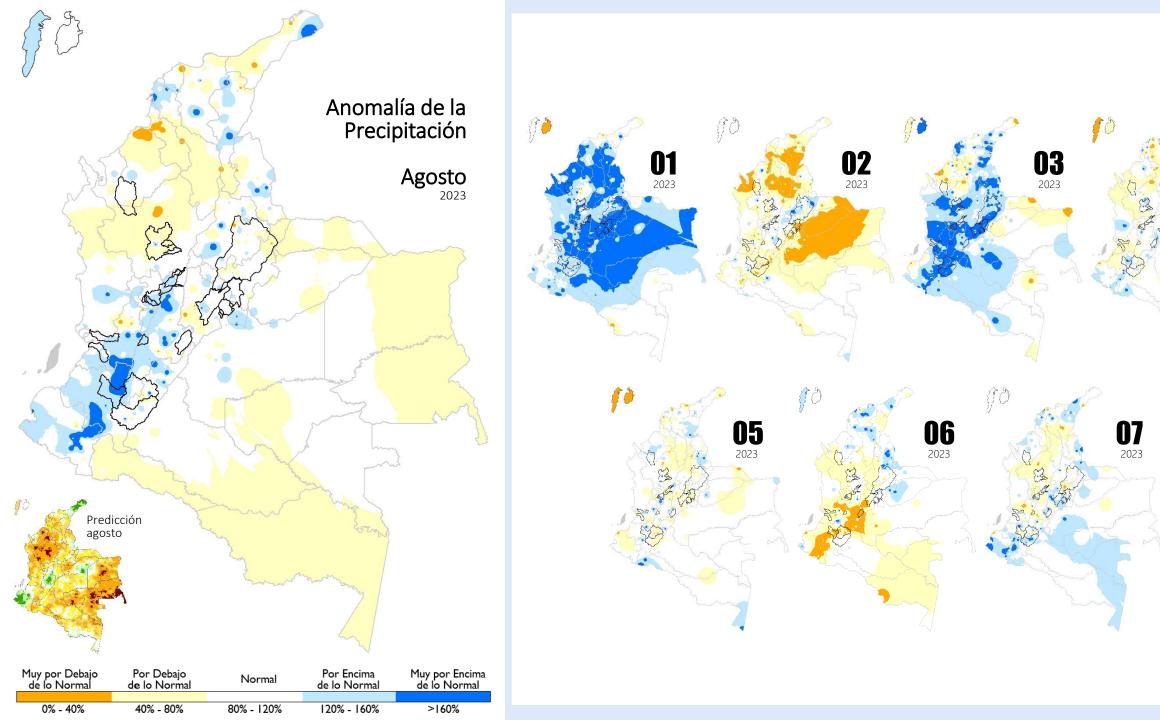
ONI - ERSST.v5 https://origin.cpc.ncep.noaa.gov/products/analysis monitoring/ensostuff/ONI v5.php

	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	8.0	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	8.0	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. I	0.2	0.5	0.8	1.1					



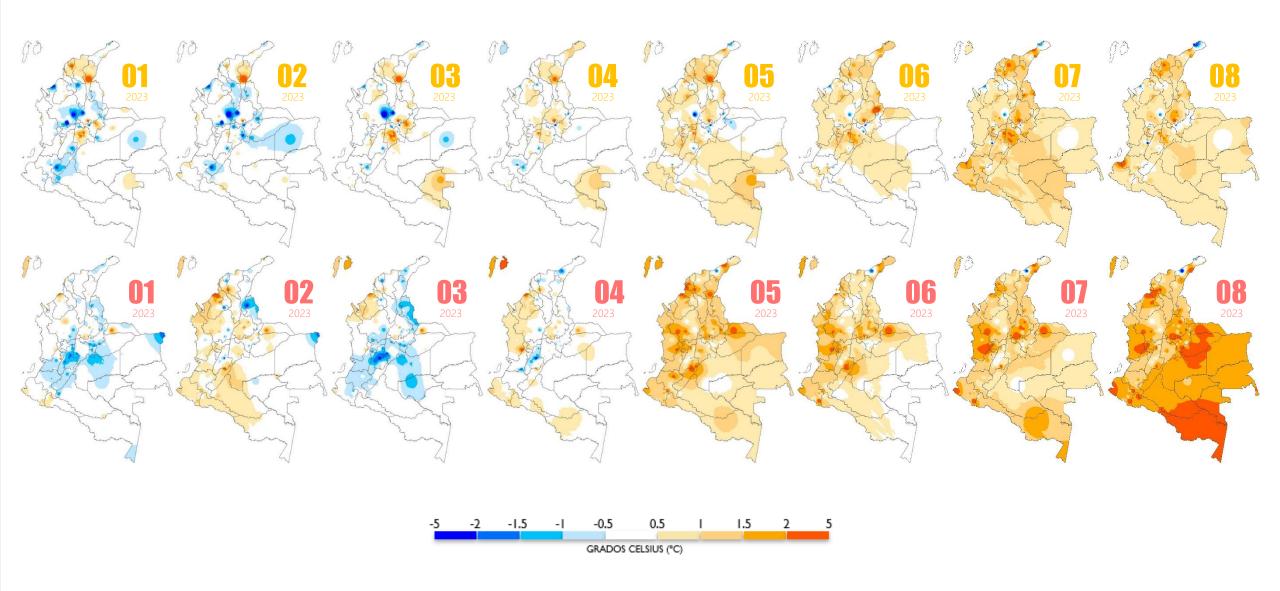


2. SEGUIMIENTO CLIMÁTICO



2023

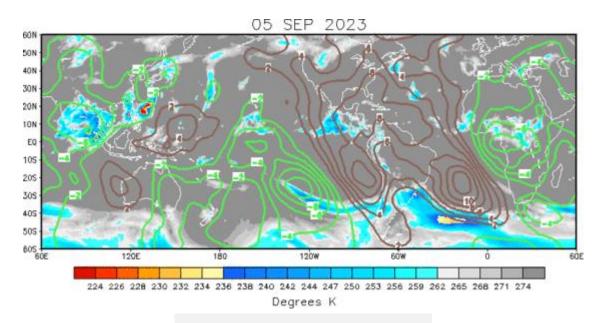
Anomalía de las temperaturas extremas mínimas y máximas





3. PREDICCIÓN CLIMÁTICA SEP | OCT | NOV

MJO+

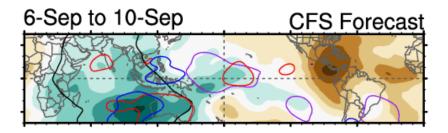


Fase Actual Subsidente

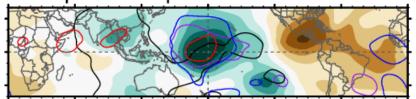
6 15 40 25

ONDAS ECUATORIALES

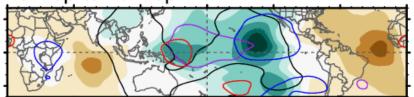
Proyección



11-Sep to 15-Sep

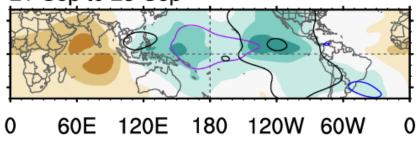


16-Sep to 20-Sep



21-Sep to 25-Sep

MJO



Low

Kelvin x2

+ nubes

- nubes

ER

Temporada de Huracanes

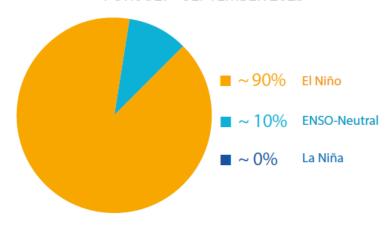


Predicción Temporada del Atlántico

Source	Date	Named storms	Hurricanes	Major hurricanes
Ave	rage (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
UKMO	August 1, 2023	19	9	6
CSU	August 3, 2023	18	9	4
TSR	August 8, 2023	18	8	3
NOAA	August 10, 2023	14–21	6–11	2–5

OMM

ESTIMATED ENSO PROBABILITIES FOR JULY - SEPTEMBER 2023



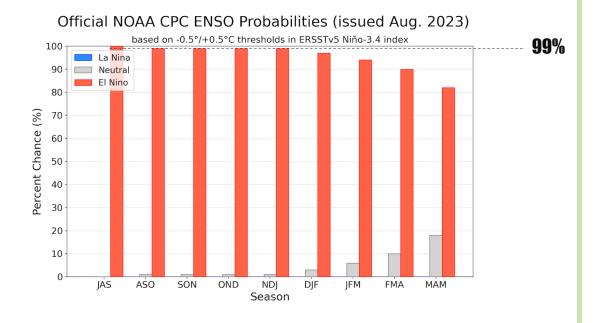
CPC - NOAA

ADVERTENCIA DE EL NIÑO

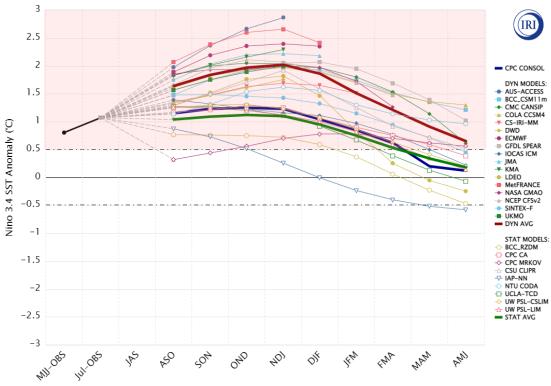
Se anticipa que continúe El Niño durante el invierno del hemisferio norte (con una probabilidad mayor a 95% hasta dic/2023 – feb/2024).



NOAA



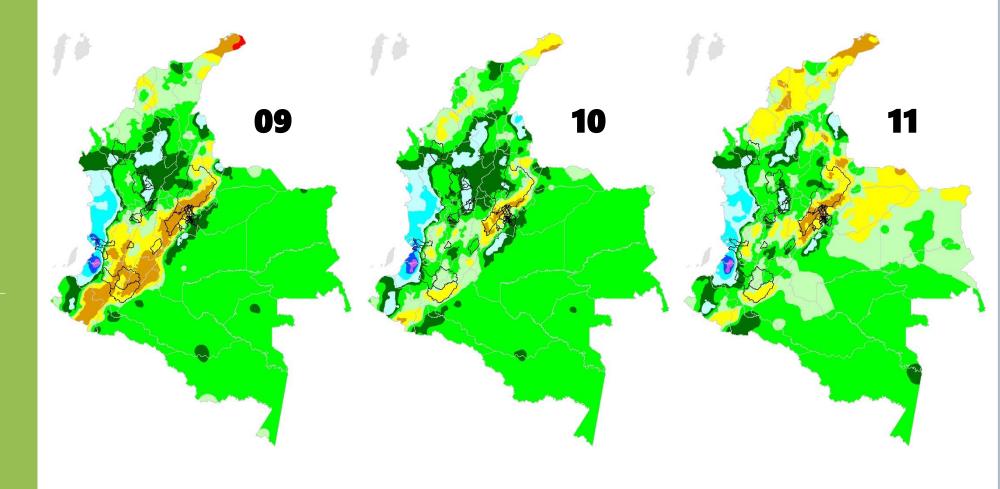
Model Predictions of ENSO from Aug 2023



Highcharts.com

Climatología Precipitación mensual

SEP - NOV



100 150 200 300 400

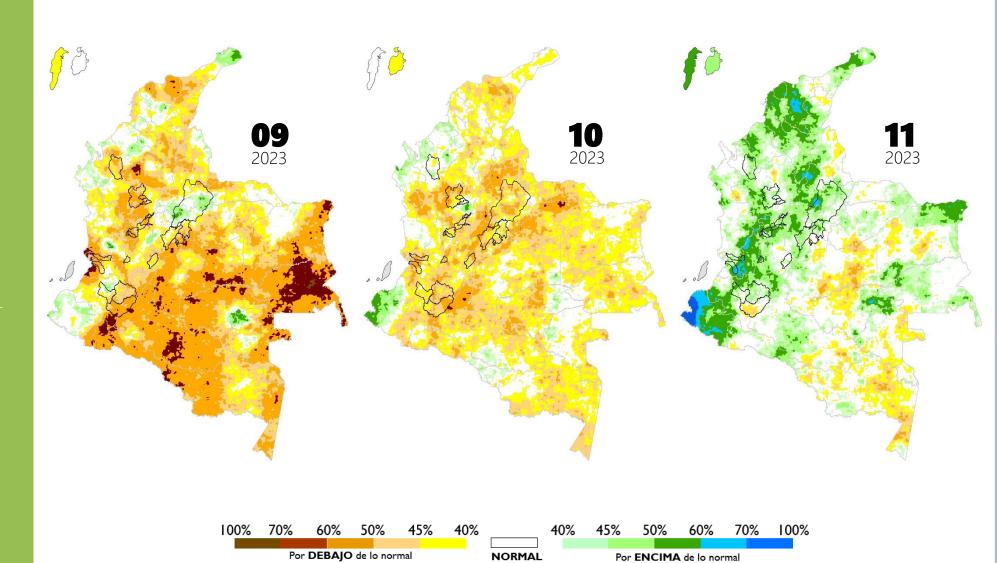
Milímetros

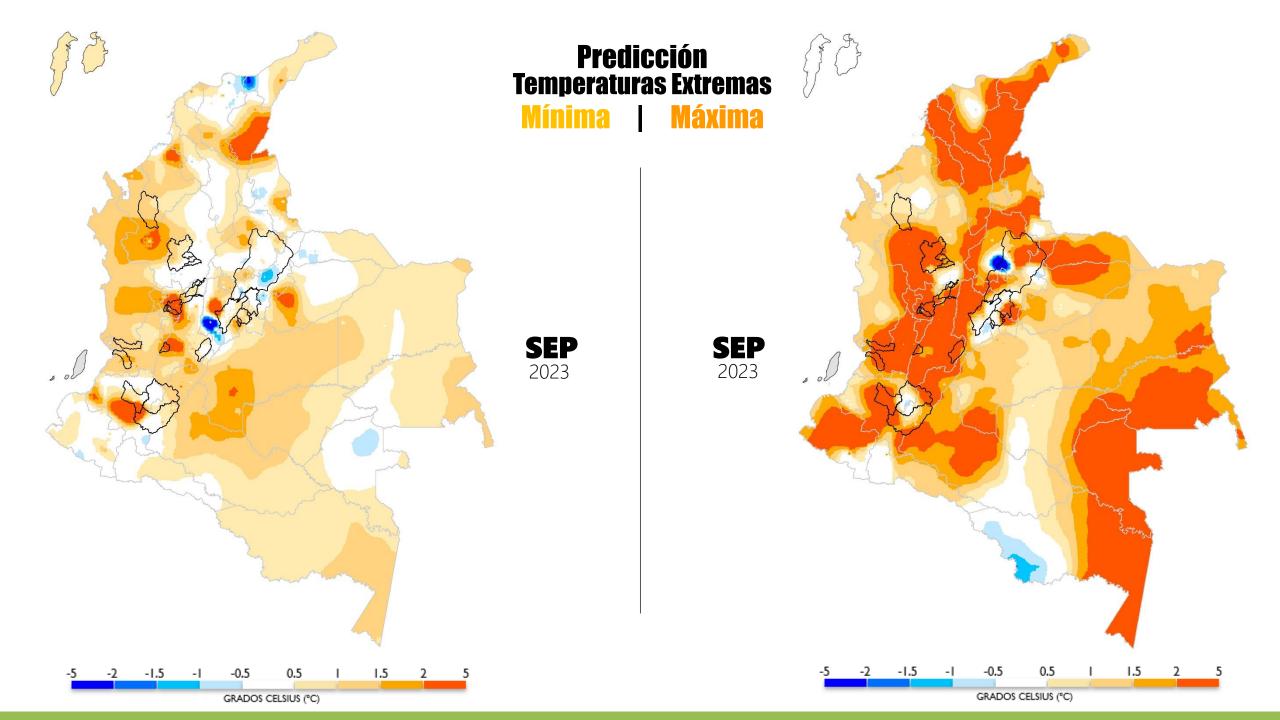
600 800 1000 >1000

Predicción probabilística

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

SEP-NOV







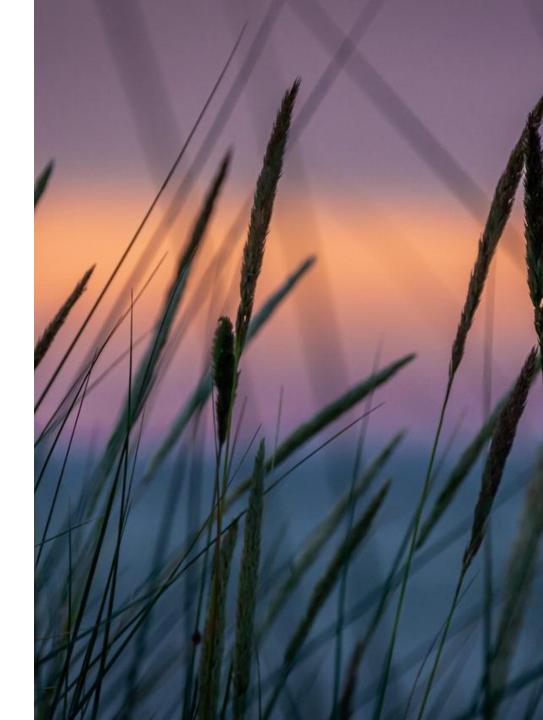
4. CONCLUSIÓN

Lluvias Déficit

50% - 70%Septiembre

40% - 60% Octubre

50%-60%Noviembre

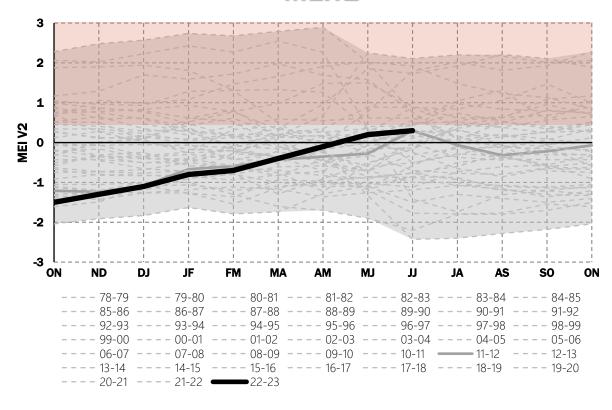




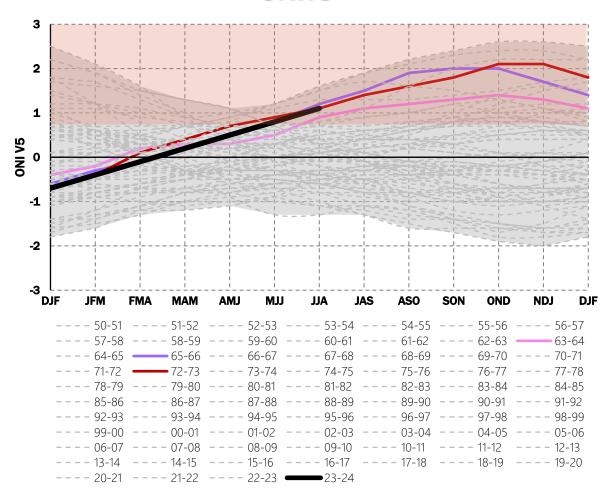


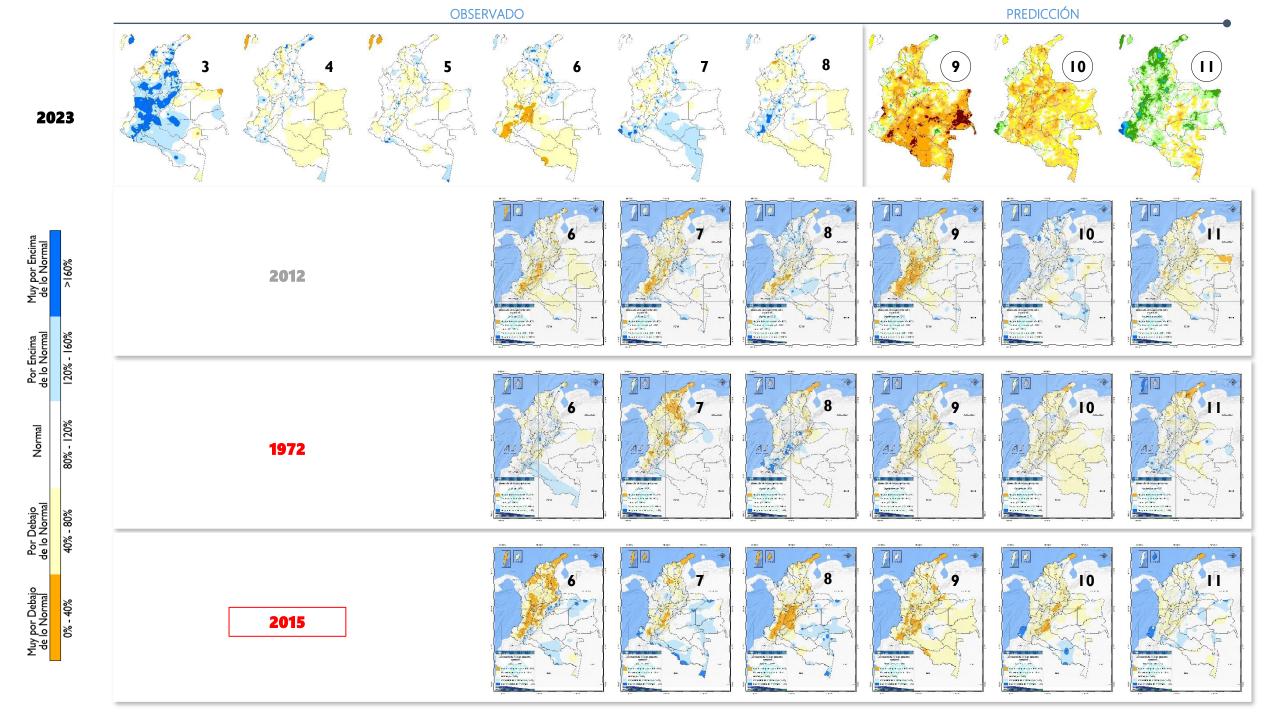
Análogos

MEIv2



ONIv5





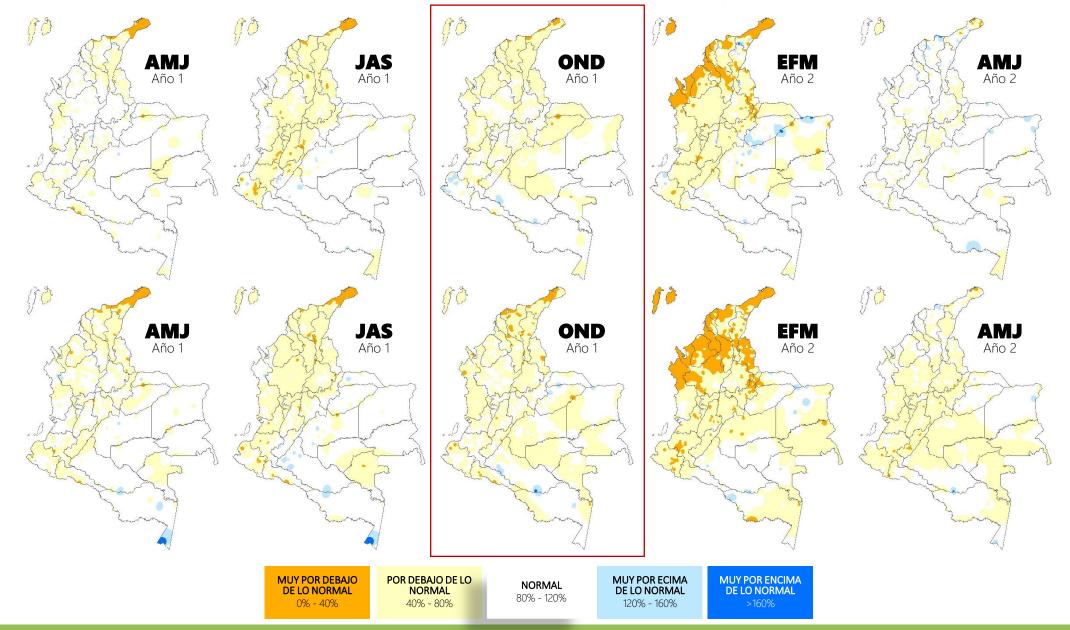




Fenómeno El Niño

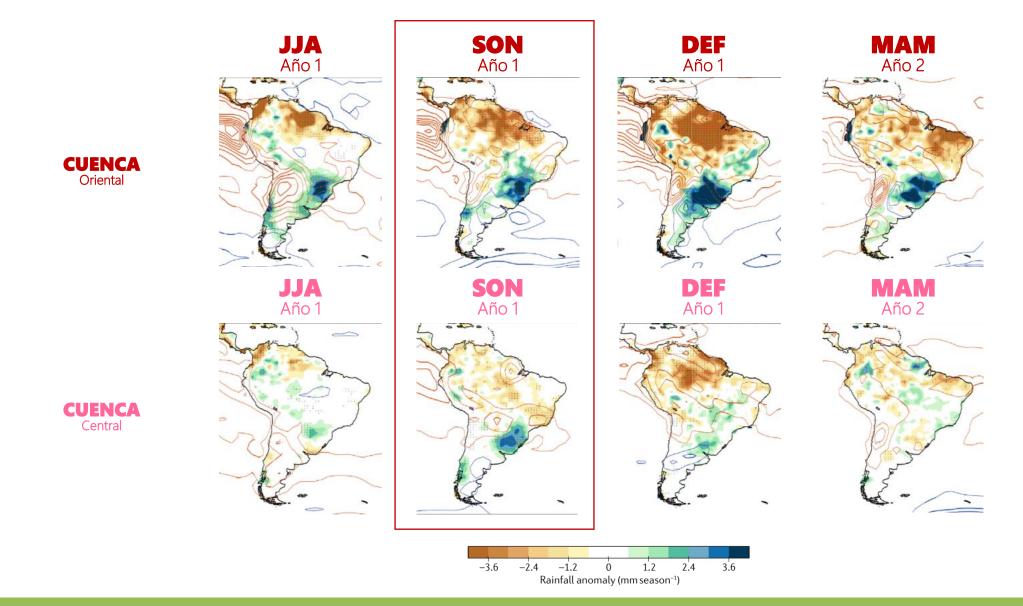
Alteraciones más probables en la precipitación

ante la ocurrencia de un fenómeno El Niño típico y moderado



Alteraciones más probables en la precipitación

ante la ocurrencia de un fenómeno El Niño EP | CP







ideamcolombia