











CONDICIONES HIDROCLIMÁTICAS ACTUALES Y PREDICCIÓN CLIMÁTICA PARA LOS PRÓXIMOS MESES

Predicción Climática – ENERO/ EFM - 2018

CNO

Luis Reinaldo Barreto

Subdirección de Meteorología





















Con el apoyo: Oficina de Pronósticos y Alertas

















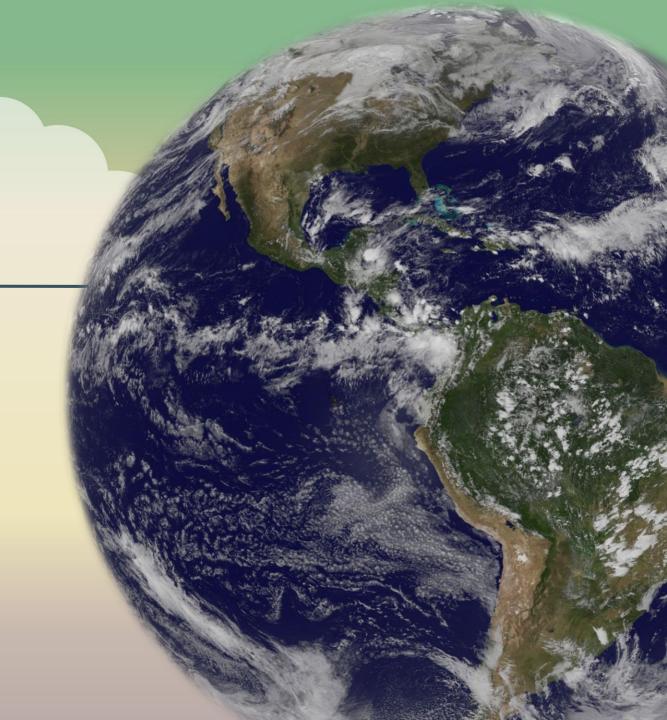






CONTENIDO

- 1. Seguimiento (2017 2018).
- 2. Condiciones Actuales.
- 3. Predicciones Internacionales.
- 4. Predicciones Nacionales + Consenso
- 5. Alertas actuales.









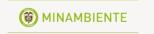






1. SEGUIMIENTO 2017









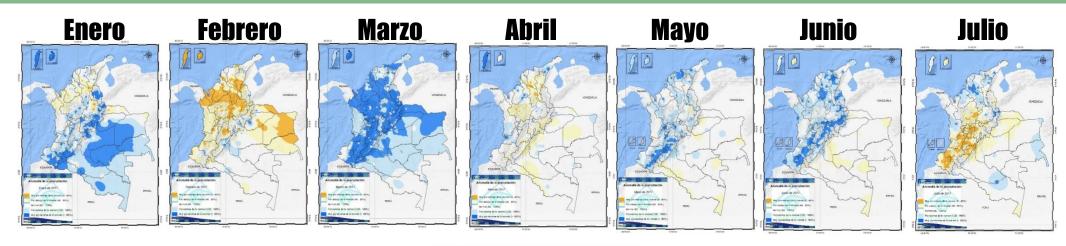


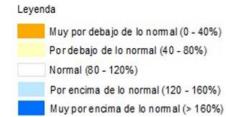


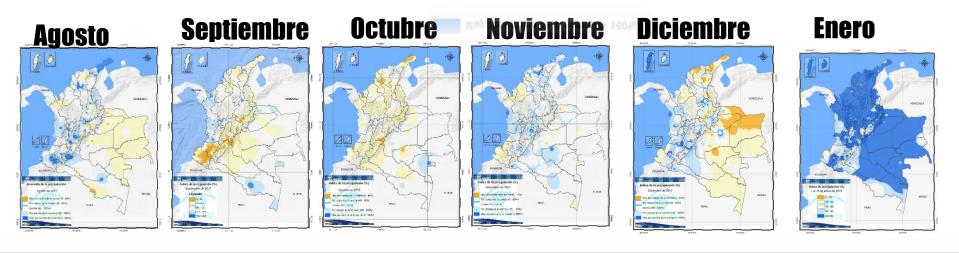






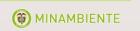




















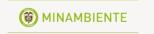






1. SEGUIMIENTO DIC - 2017

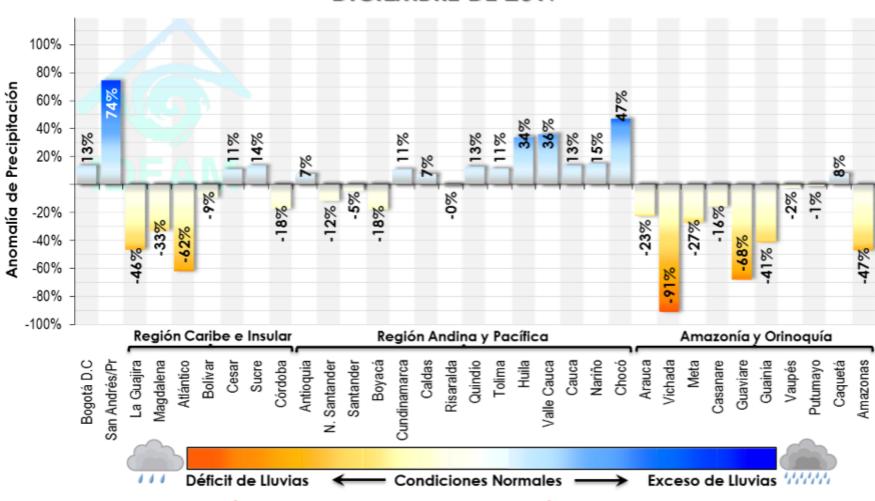






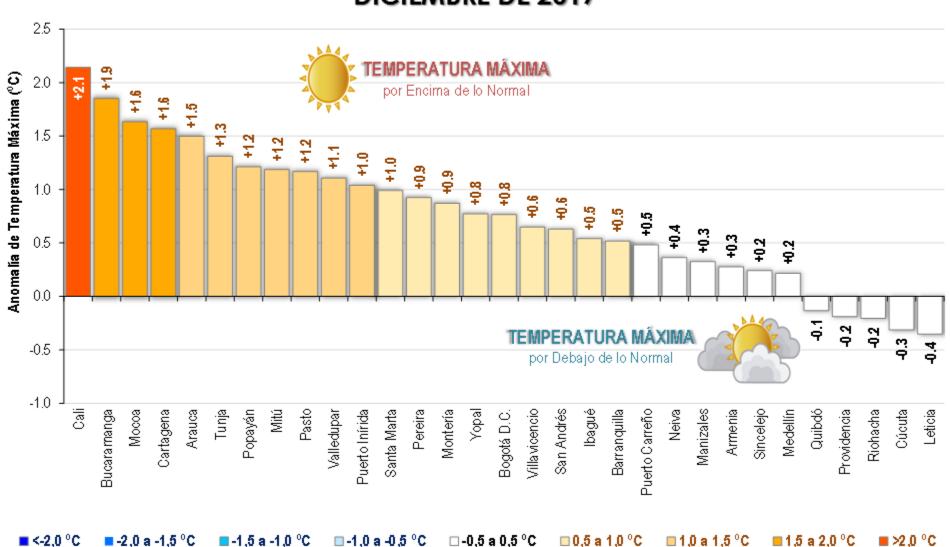
ANOMALÍA DE LLUVIA PONDERADA POR DEPARTAMENTOS EN COLOMBIA

DICIEMBRE DE 2017



ANOMALÍA DE TEMPERATURA MÁXIMA EN LAS PRINCIPALES CIUDADES DE COLOMBIA

DICIEMBRE DE 2017





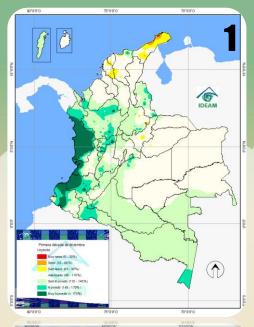


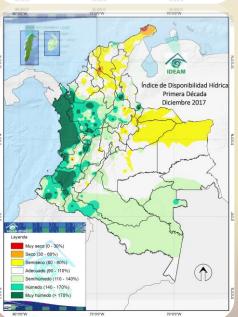


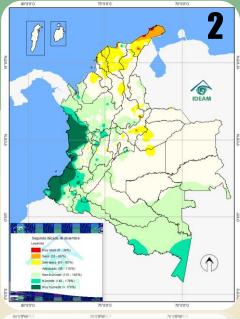


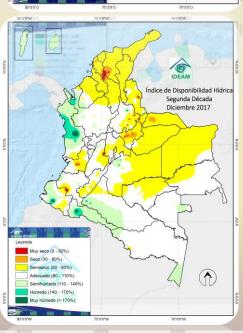


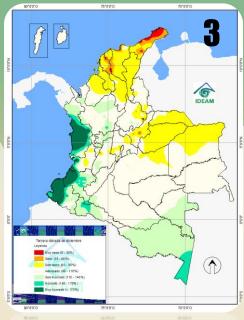


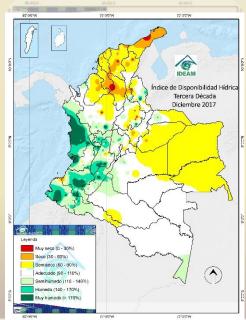










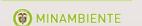


CLIMATOLOGÍA

OBSERVADO

ÍNDICE DE DISPONIBILIDAD HIDRICA - Décadas



















2. CONDICIONES ACTUALES

PRECIPITACIÓN NACIONAL











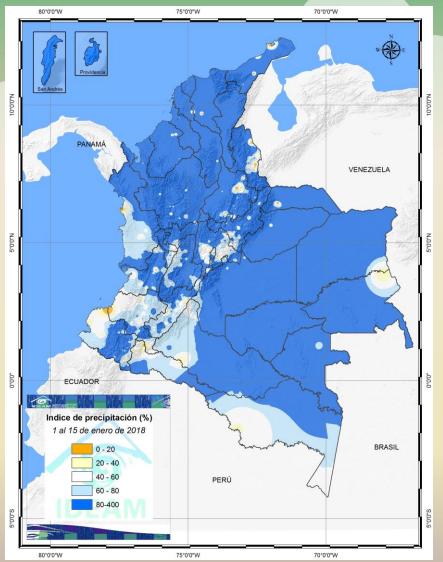




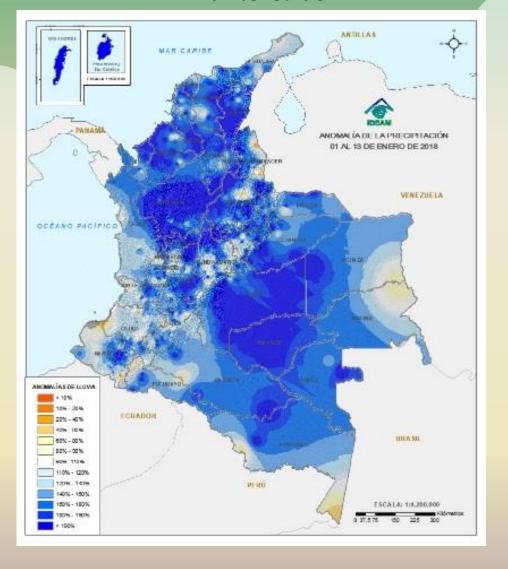




Lluvia/mes

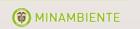


Iluvia/13días



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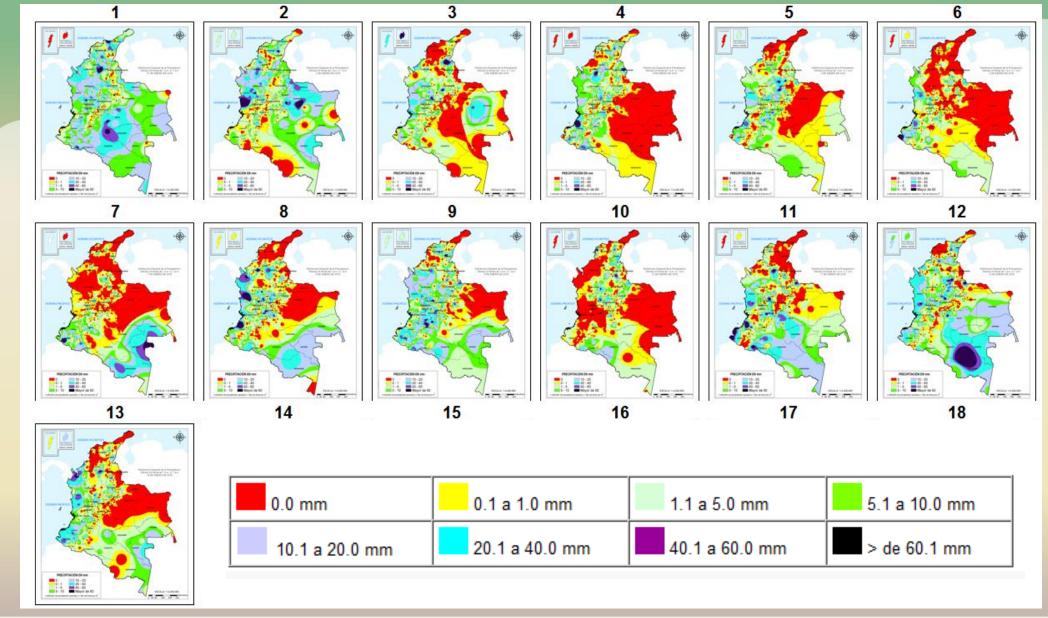






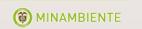






PRECIPITACIÓN DIARIA ENERO (1 – 13)















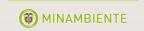




2. CONDICIONES ACTUALES

OCÉANO – ATMÓSFERA GLOBAL









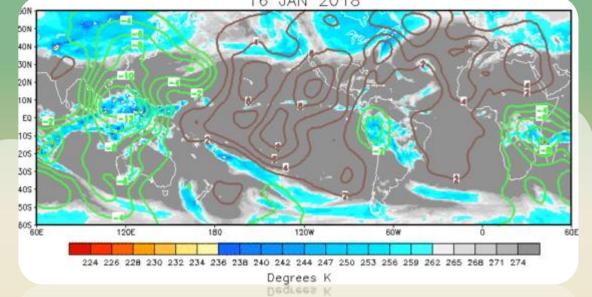




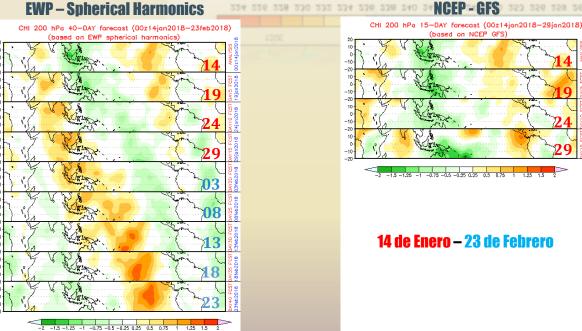




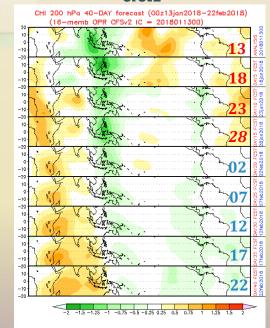








CFSv2















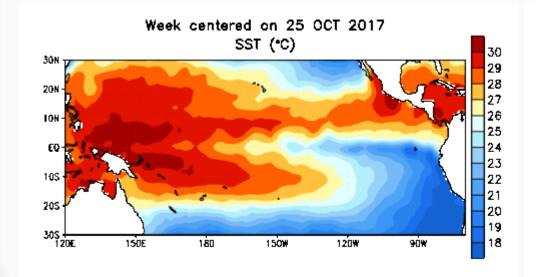




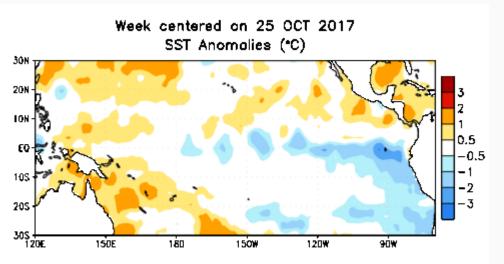




TSM

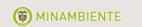


ATSM



SEGUIMIENTO OCÉANO PACÍFICO TROPICAL







ATSM - SEMANAL



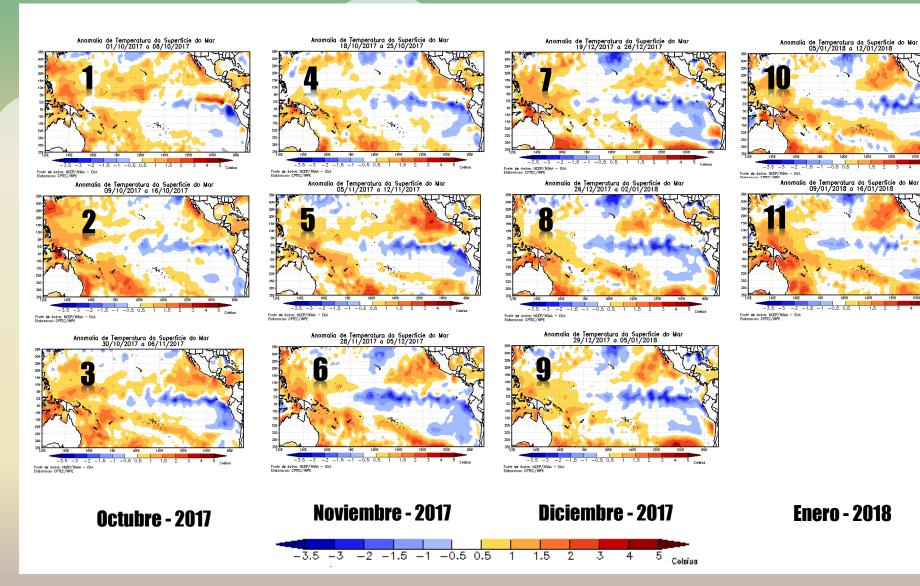












SEGUIMIENTO - OCÉANO PACÍFICO TROPICAL











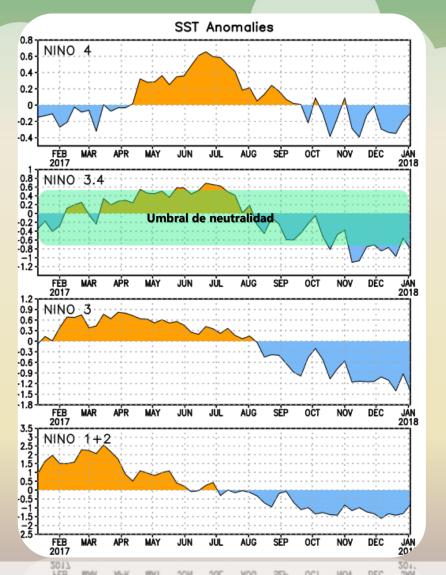








SEGUIMIENTO - OCÉANO PACÍFICO TROPICAL



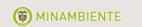


Anomalía TSM

REGIÓN	SEMANA ANTERIOR	SEMANA ACTUAL
Niño 4	-0.1	-0.1
Niño 3.4	-0,8	-0.8
Niño 3	-14	-1,4
Niño 1+2	-08	-0,8

Categoría	Indice Oceánico El Niño (ONI)		
Cálido fuerte	Mayor o igual a +1,4		
Cálido moderado	Mayor que +0,9 y menor que +1,4		
Cálido débil	Mayor que +0,5 y menor que +1,0		
Neutro	Mayor que -0,5 y menor que +0,5		
Frío débil	Menor que -0,5 y menor que -0,9		
Frío moderado	Menor que -1,0 y menor que -1,5		
Frío fuerte Menor o igual que -1,5			









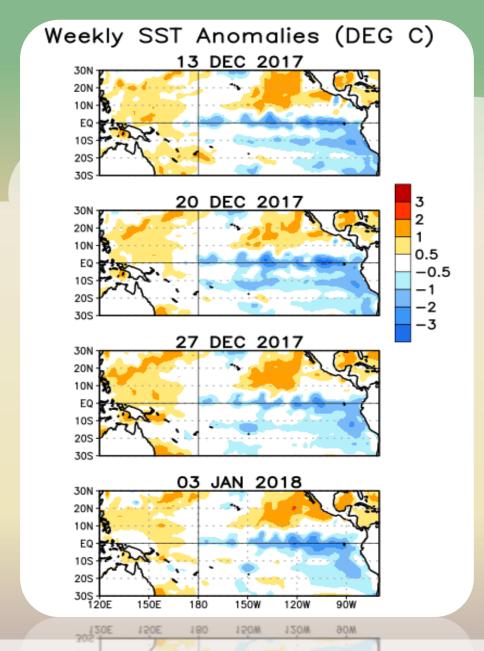




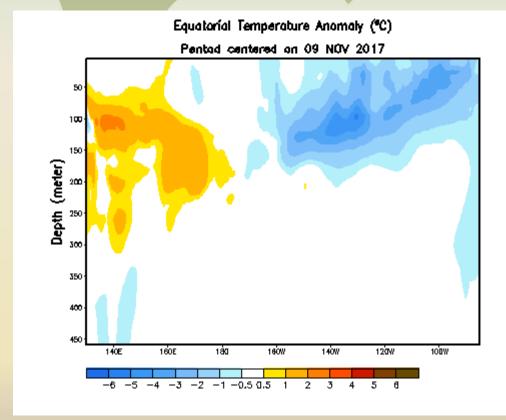








ANOMALÍA TSSM



SEGUIMIENTO - OCÉANO PACÍFICO TROPICAL











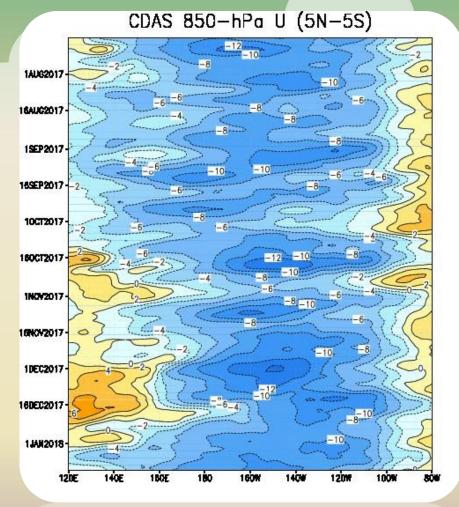






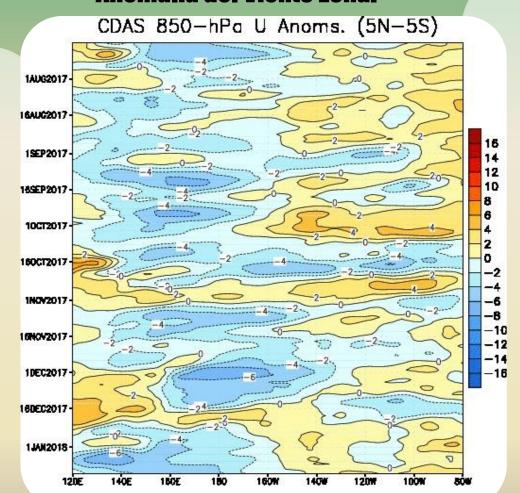


Viento Zonal



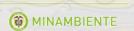
Respuesta Atmosférica - Viento

Anomalía del Viento Zonal





14AM2018

















VERSION ONI

Year	DJF	JFM	FMA	MAM	АМЈ	МЈЈ	JJA	JAS	ASO	SON	OND	NDJ
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	

ERSST.V5B SST









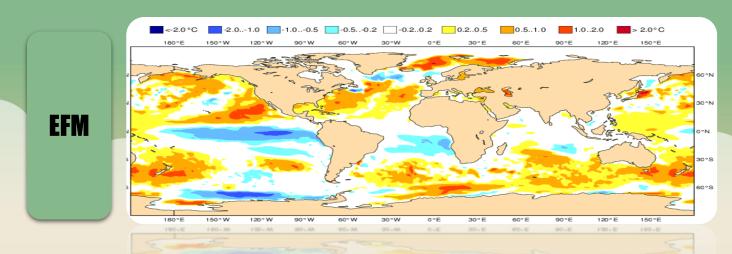




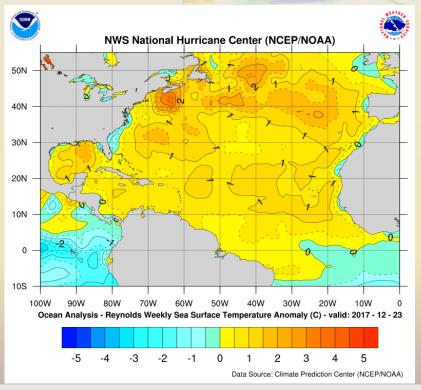


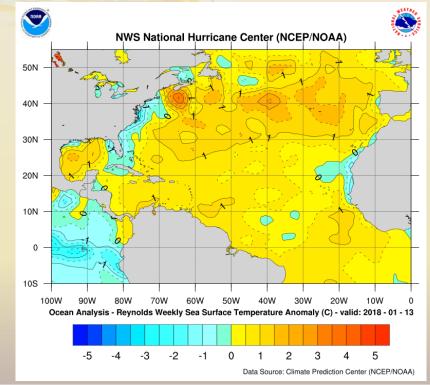






Evolución





SEGUIMIENTO - OCÉANO ATLÁNTICO















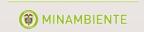




2. ANÁLOGOS HISTÓRICOS

ANOMALÍA DE PRECIPITACIÓN











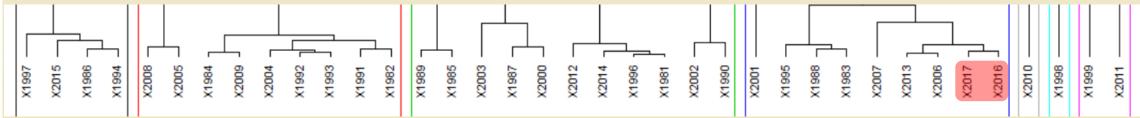




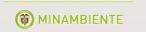




ANÁLOGOS – HISTÓRICOS **METODOLOGÍA ESTADÍSTICA** CLÚSTER JERÁRQUICO













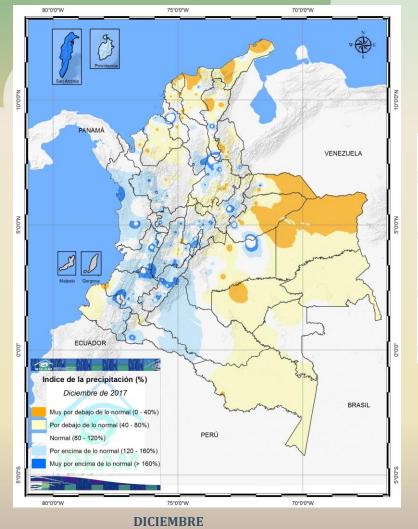




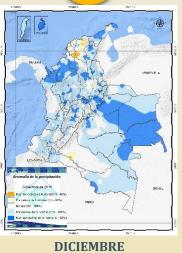




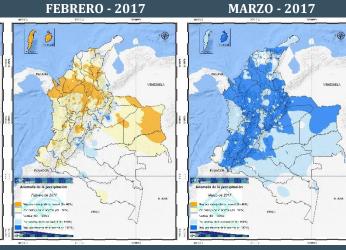




2016



FEBRERO - 2017







ENERO - 2017













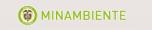




ANÁLOGO - NIÑA DÉBIL

PRECIPITACIÓN











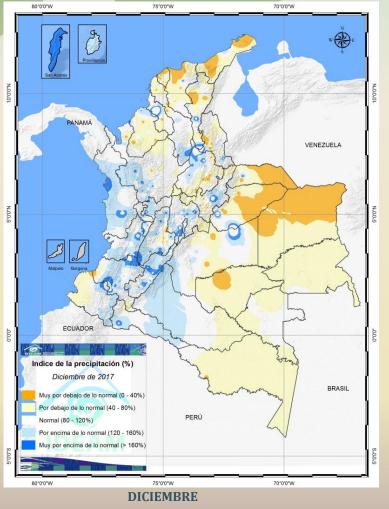


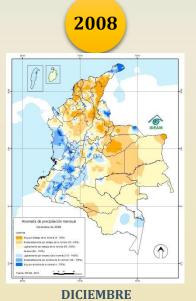


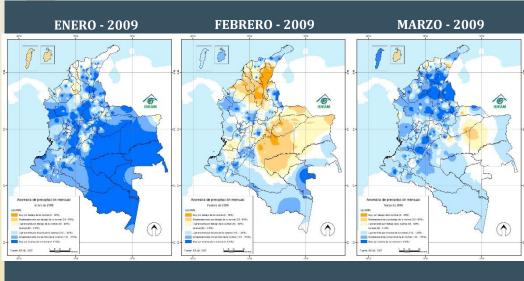




2017







ANÁLOGOS CLÚSTER JERÁRQUICO













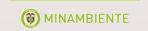






3. PREDICCIONES INTERNACIONALES















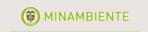




PROYECCIÓN ANOMALÍA TEMPERATURA SUPERFICIE DEL MAR

ATSM









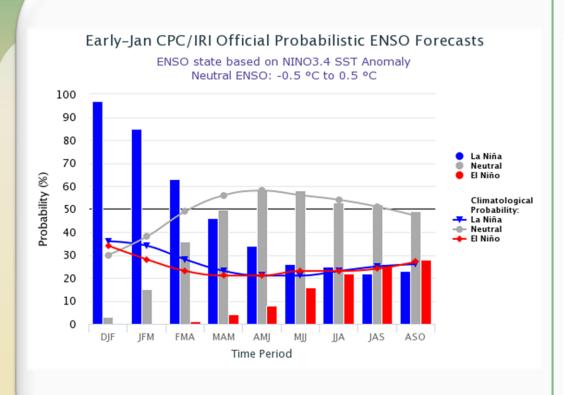


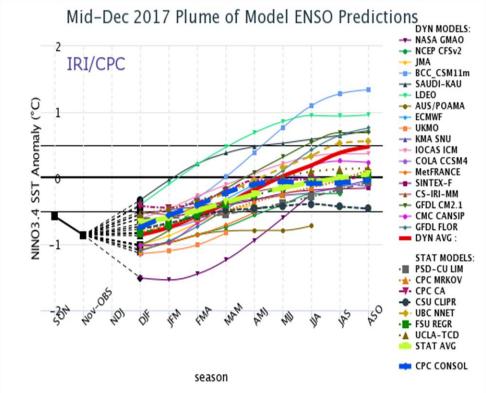






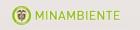
















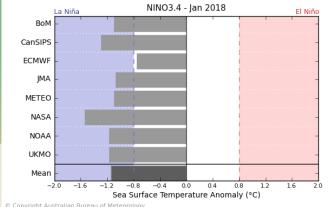












Enfriamiento

Enfriamiento

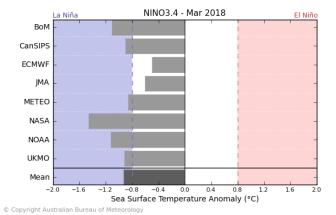
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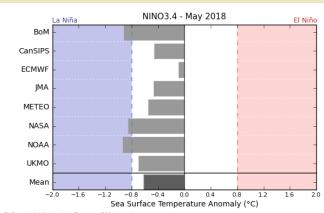
ENE

MAR

MAY



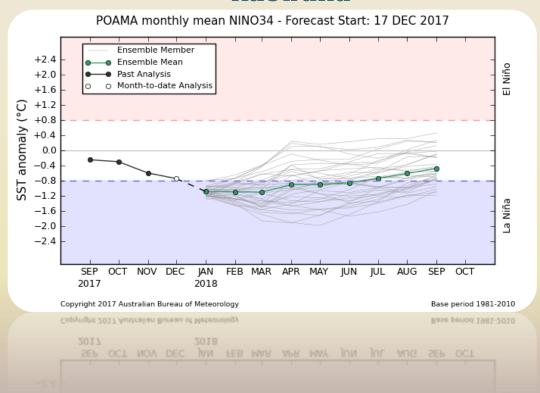




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PROYECCIÓN DE LA ATSM PACÍFICO TROPICAL

Bureau of Meteorology Australia















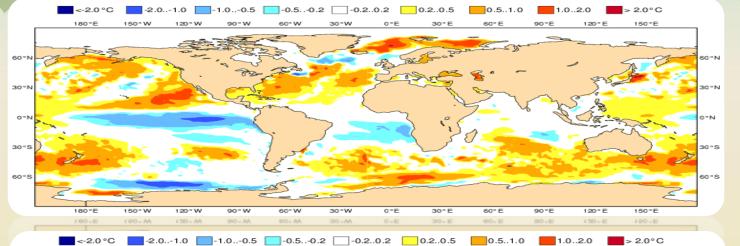


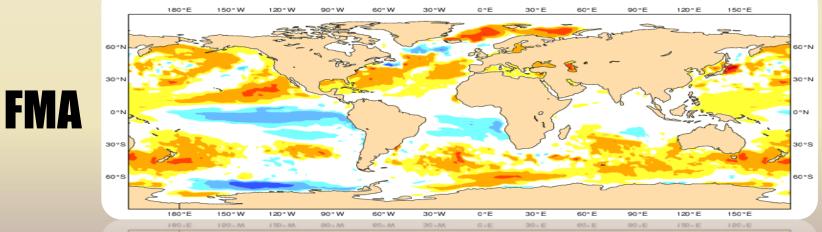




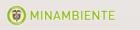
PROYECCIÓN DE LA ATSM MUNDIAL MODELO EUROPEO - ATSM

























PROYECCIÓN PRECIPITACIÓN MODELOS INTERNACIONALES

TRIMESTRAL











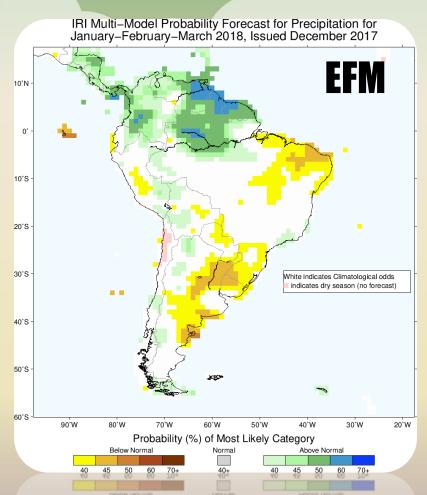


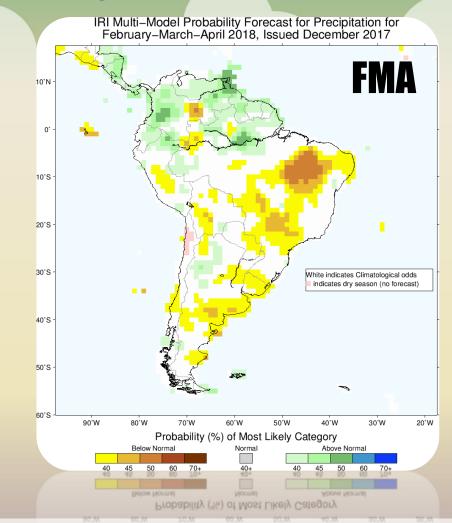






PREDICCIÓN Internacional Research Institute for Climate and Society

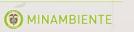






Probability (%) of Most Likely Category









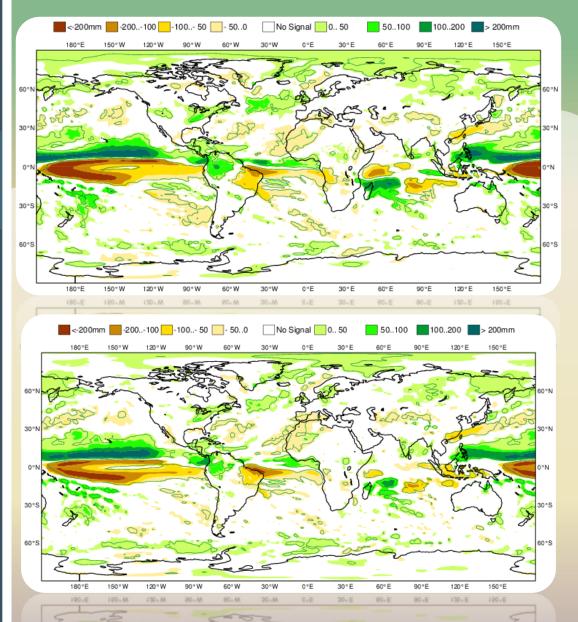












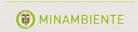
EFM 2017/18

PREDICCIÓN CENTRO EUROPEO

FMA 2018













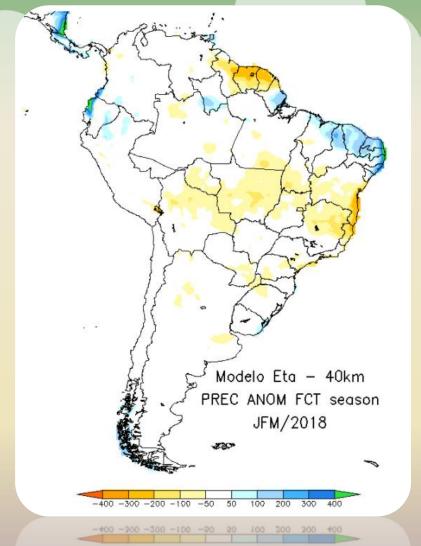








EFM



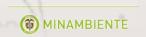
4550×

PREDICCIÓN MODELO ETA

ANOMALÍA DE LA PRECIPITACIÓN PARA EL TRIMESTRE





















4. PREDICCIONES NACIONALES

CLIMATOLOGÍA RESULTADOS MODELOS















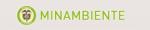




CLIMATOLOGÍA

MENSUAL - TRIMESTRAL









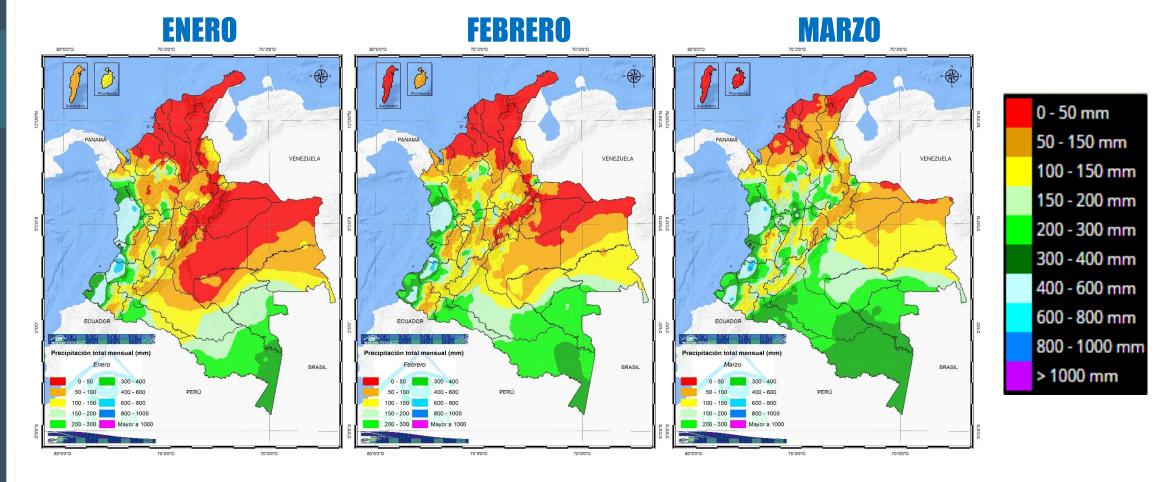






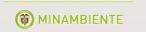






CLIMATOLOGÍA











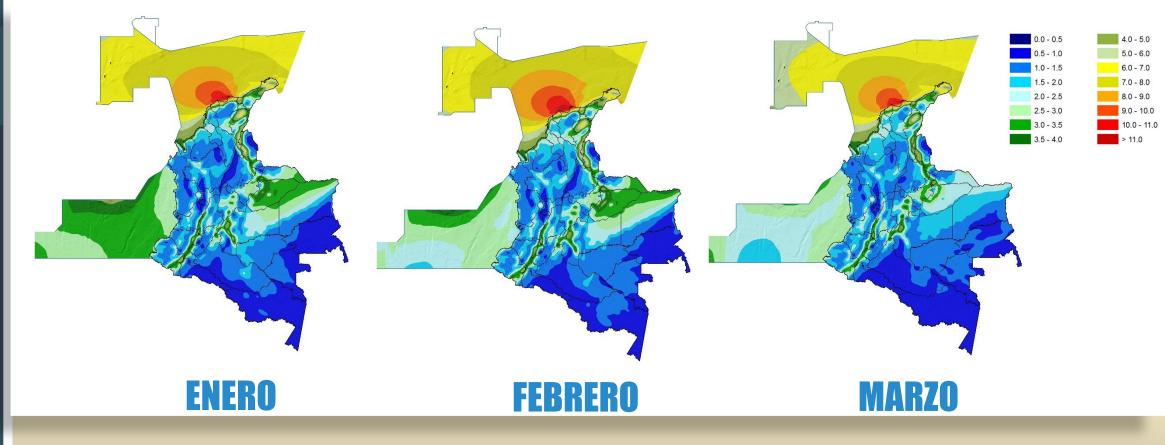




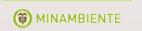




Climatología (m/s)











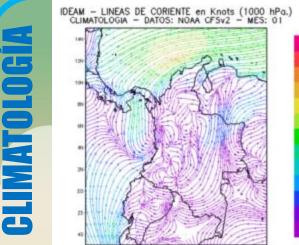


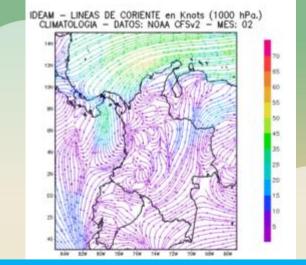


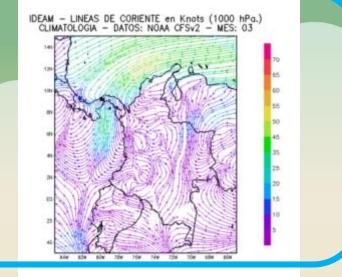




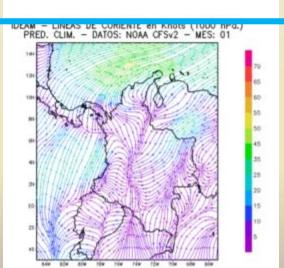




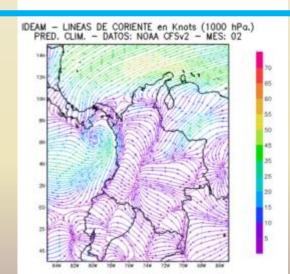




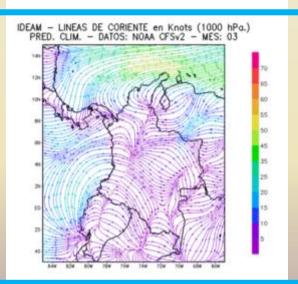
ENERO



FEBRERO

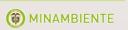


MARZO





IDEAM Instituto de Hidrología Meteorología y Estudios Ambientales









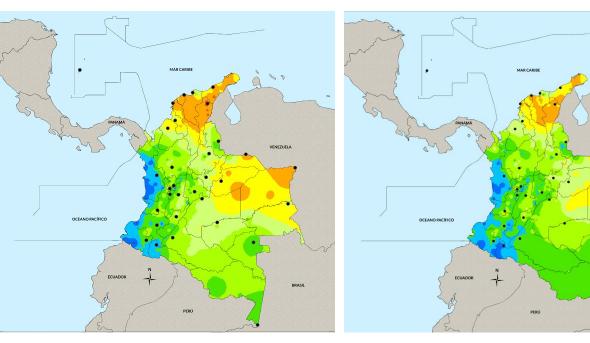


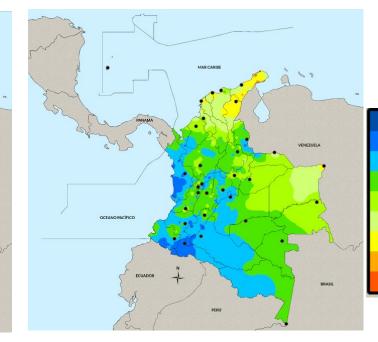






Climatología





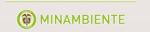
MARZO

FEBRERO



ENERO







1 - 2 horas 2 - 3 horas 3 - 4 horas 4 - 5 horas 5 - 6 horas 6 - 7 horas 7 - 8 horas 8 - 9 horas 9 - 10 horas













RESULTADOS MODELOS

+ CONSENSO

MENSUAL - TRIMESTRAL













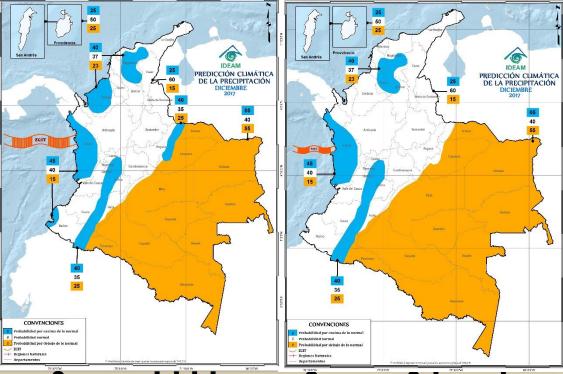


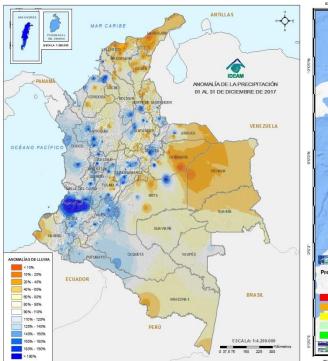


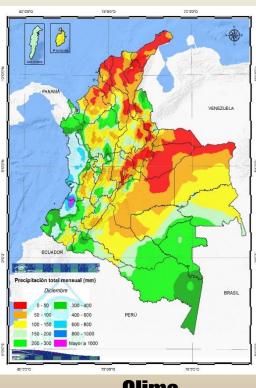


CONSENSO — ANOMALÍAS ANÁLISIS PRELIMINAR

DICIEMBRE 2017







Consenso Inicial

Consenso Quincenal

Anomalías



















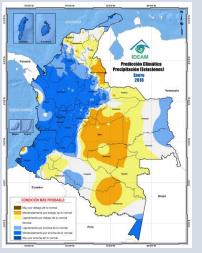


PRECIPITACIÓN TOTAL

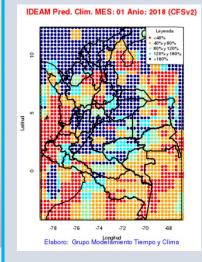
CPT - CHIRPS



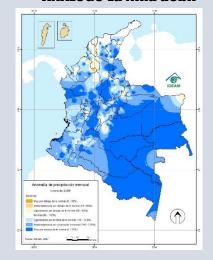
CPT – ESTACIONES



CFSv2

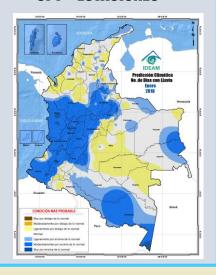


ANÁLOGO La Niña débil



NO. DÍAS CON LLUVIA

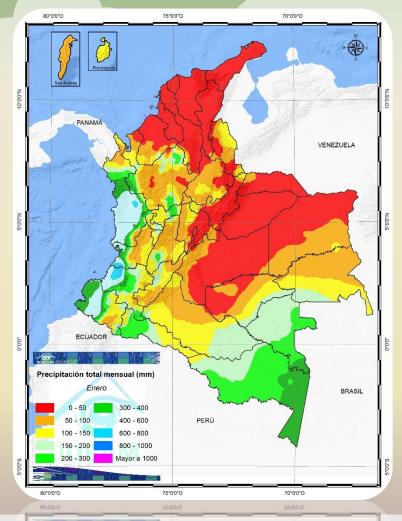
CPT – ESTACIONES



FENALCE



ENERO CLIMATOLOGÍA









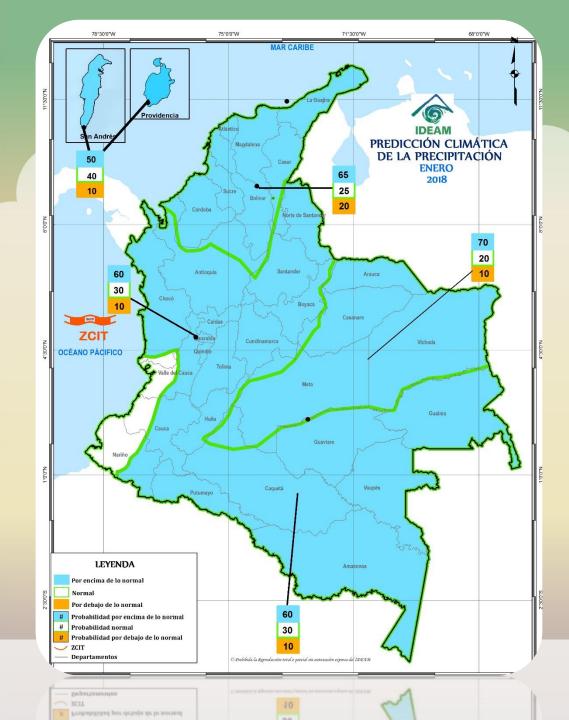












PROPUESTA CONSENSO Enero











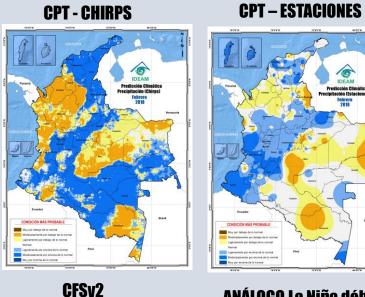








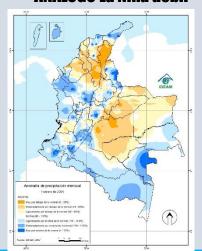
PRECIPITACIÓN TOTAL



IDEAM Pred. Clim. MES: 02 Anio: 2018 (CFSv2)

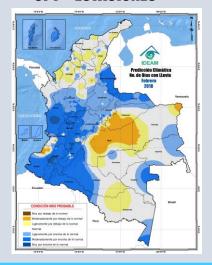
Elaboro: Grupo Modelamiento Tiempo y Clima

ANÁLOGO La Niña débil

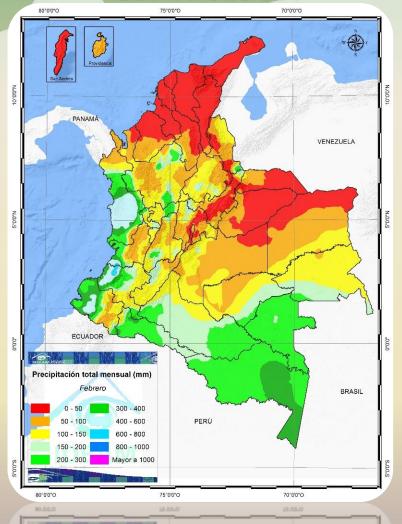


NO. DÍAS CON LLUVIA

CPT - ESTACIONES



CLIMATOLOGÍA













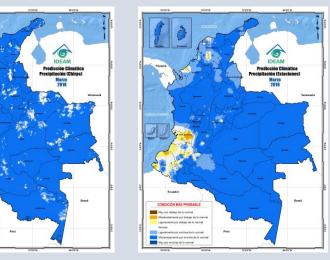






PRECIPITACIÓN TOTAL

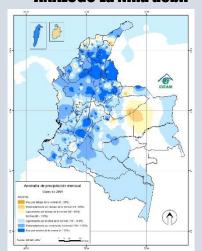
CPT - CHIRPS CPT - ESTACIONES



CFSv2 ANÁLOGO La Niña débil

IDEAM Pred. Clim. MES: 03 Anio: 2018 (CFSv2)

Elaboro: Grupo Modelamiento Tiempo y Clima

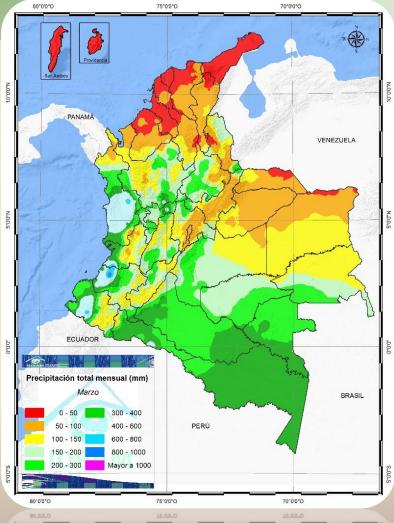


NO. DÍAS CON LLUVIA

CPT – ESTACIONES



MARZO CLIMATOLOGÍA













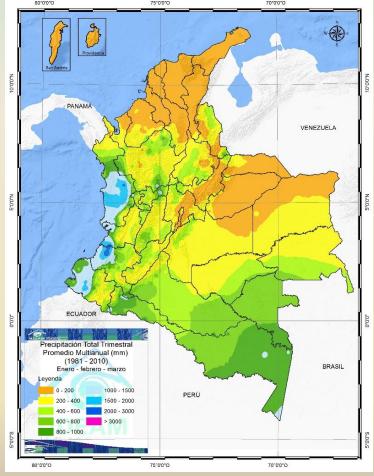




FENALCE







CFSv2 CPT - ESTACIONES

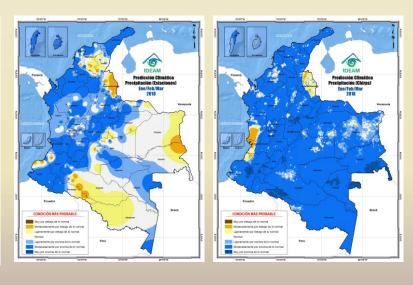
TRIM: EFM Anio: 2017 (CFSv2) - Por encima de lo normal

78 -76 -74 -72

-70

Precipitación Total

CPT - CHIRPS











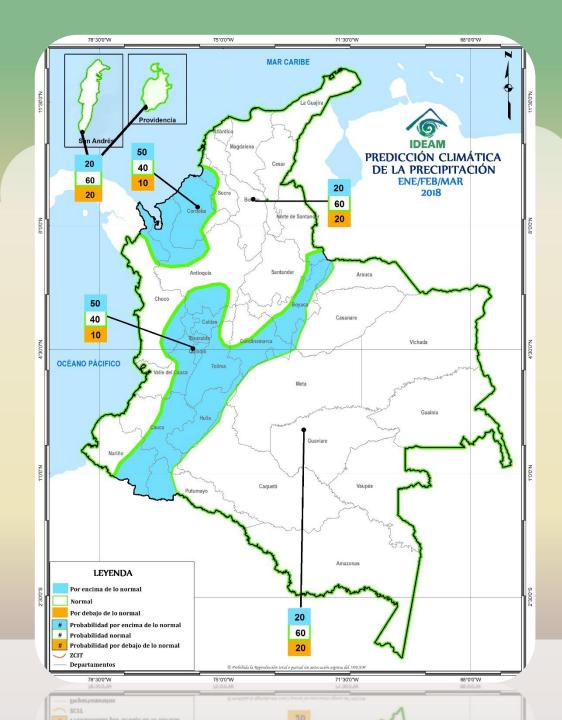






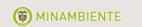






PROPUESTA CONSENSO Ene/Feb/Mar



















PROYECCIÓN TEMPERATURA MODELOS NACIONALES E INTERNACIONALES

MENSUAL









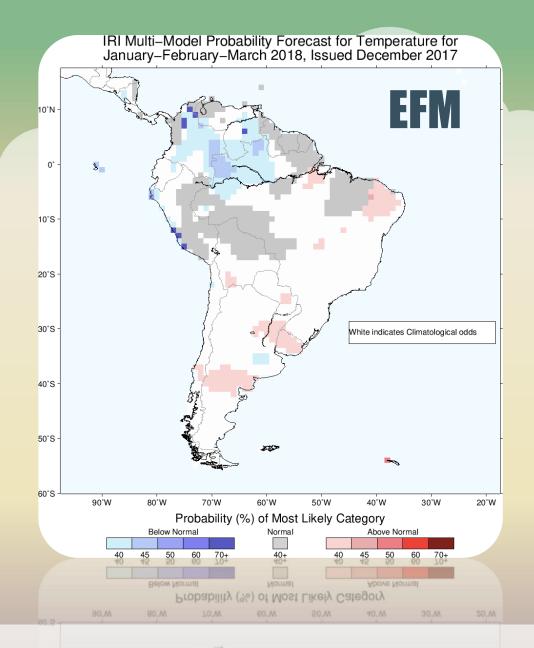


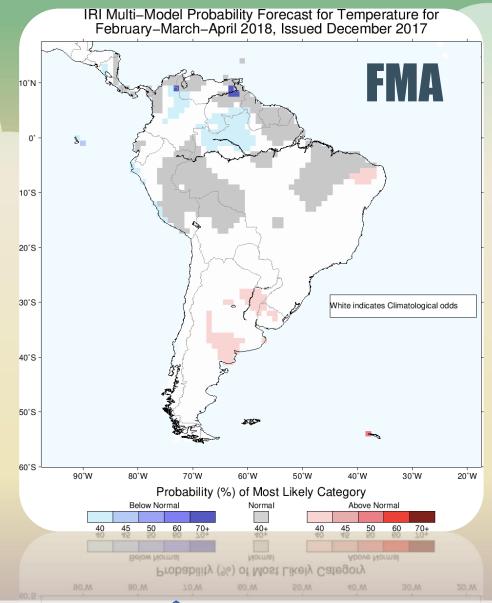






















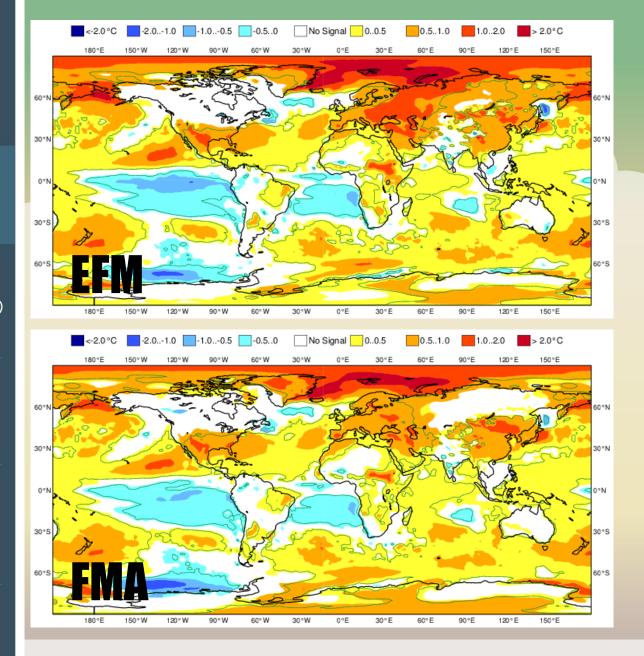












Temperatura del Aire

PREDICCIÓN CENTRO EUROPEO









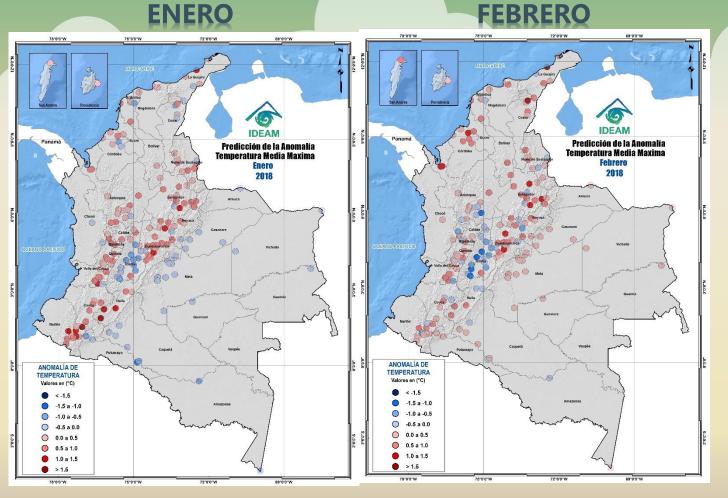




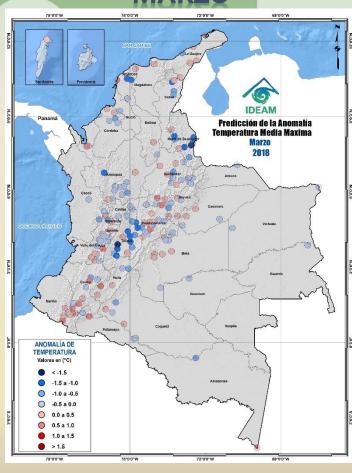






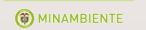


MARZO



PREDICCIÓN - CPT TEMPERATURA MEDIA MÁXIMA









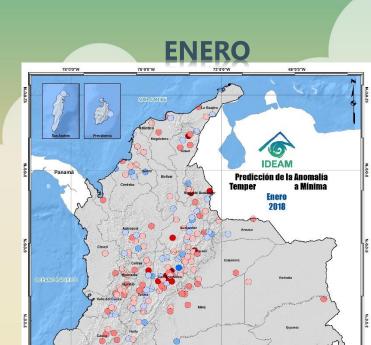












ANOMALÍA DE

Valores en (°C)

-1.5 a -1.0

O -1.0 a -0.5

O -0.5 a 0.0

O.0 a 0.5

0.5 a 1.0

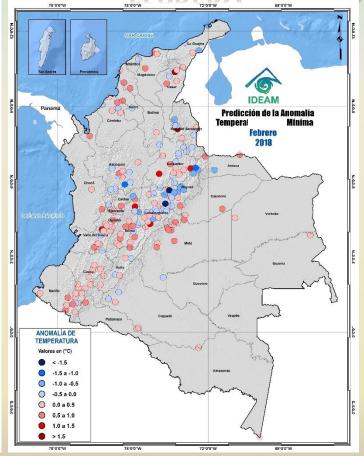
1.0 a 1.5

> 1.5

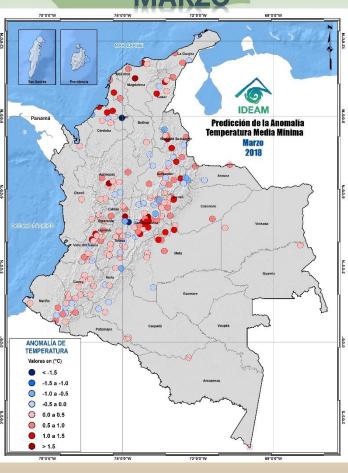
<-1.5

TEMPERATURA





MARZO



PREDICCIÓN - CPT TEMPERATURA MEDIA MÍNIMA



















5. ALERTAS ACTUALES

HIDROLOGIA

MONITOREO DIARIO





















ALERTA ROJA. PARA TOMAR ACCIÓN Advierte al Sistema Nacional de Gestión del Riesgo de Desastres sobre el peligro de un fenómeno y sus efectos adversos sobre la población. Se emite una alerta sólo cuando la identificación de un evento extraordinario indique la amenaza inminente y cuando la gravedad del fenómeno requiera atención prioritaria de los comités departamentales y locales.



ALERTA NARANJA. PARA PREPARARSE Indica la amenaza de un fenómeno. No implica riesgo inmediato por lo que es catalogado como un mensaje para informarse y prepararse. El aviso implica vigilancia continua ya que las condiciones son propicias para el desarrollo de un suceso natural.



ALERTA AMARILLA. PARA INFORMARSE Se emite cuando las condiciones hidrometeorológicas son favorables para la ocurrencia de un fenómeno natural y pueden aumentar el riesgo según los pronósticos. Por sus características, este nivel está encaminado a informar.

CONDICIONES NORMALES Indica que no existe ninguna clase de alerta para la región o zona mencionada.

mencionada.

CONDICIONES NORMALES Indica que no existe ninguna classe alerta para la región o zona











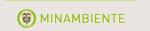






NIVELES DE LOS RÍOS



















REGIÓN ANDINA

REGIÓN CARIBE

REGIÓN ANDINA

• -----

REGIÓN PACIFICO

• ----

REGIÓN PACIFICO

• ----

REGIÓN ANDINA

• ----

REGIÓN AMAZONAS















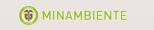






6. CONCLUSIONES



















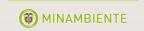
Predicción Climática ENERO

Se estima un comportamiento de lluvias por encima de los promedios históricos de la época.

Continúa la evolución del fenómeno La Niña de categoría débil, sumado al ingreso significativo de humedad de la Amazonía y el efecto del tránsito de los frente fríos del hemisferio norte.

La temperatura del aire se espera con un comportamiento cercano a los promedios climatológicos.



















VISITA NUESTRAS

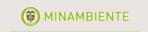
REDES SOCIALES

























GRACIAS POR SU ATENCIÓN

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