

Pronóstico climático campaña 2015

María Eugenia Bontempi
Departamento Agrometeorología
Servicio Meteorológico Nacional
agro@smn.gov.ar



27 de Marzo de 2015 – Peruggorría, provincia de Corrientes. Argentina

Situación Actual

Precipitaciones totales (mm) y su anomalía (mm) en el trimestre octubre-diciembre 2014

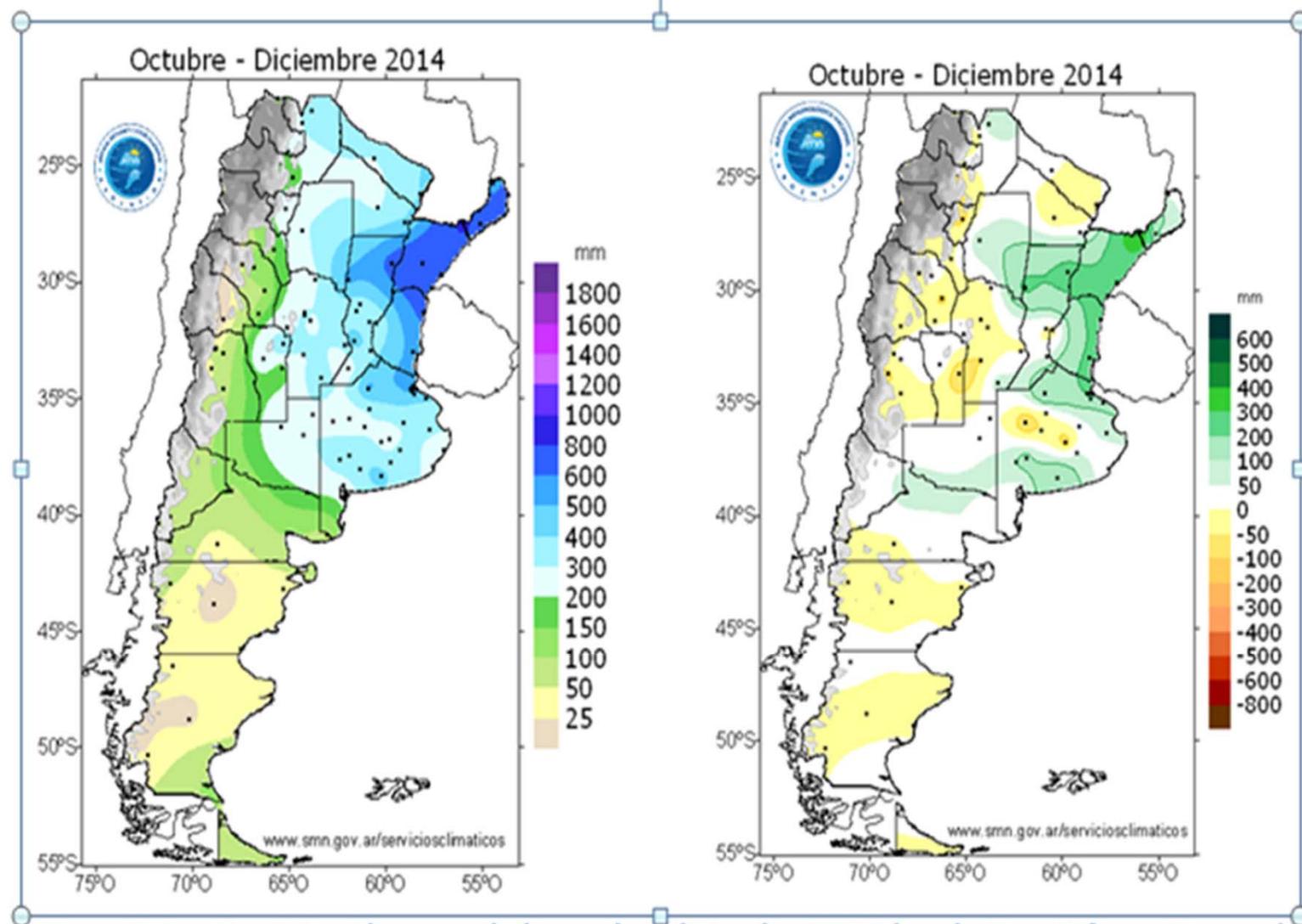
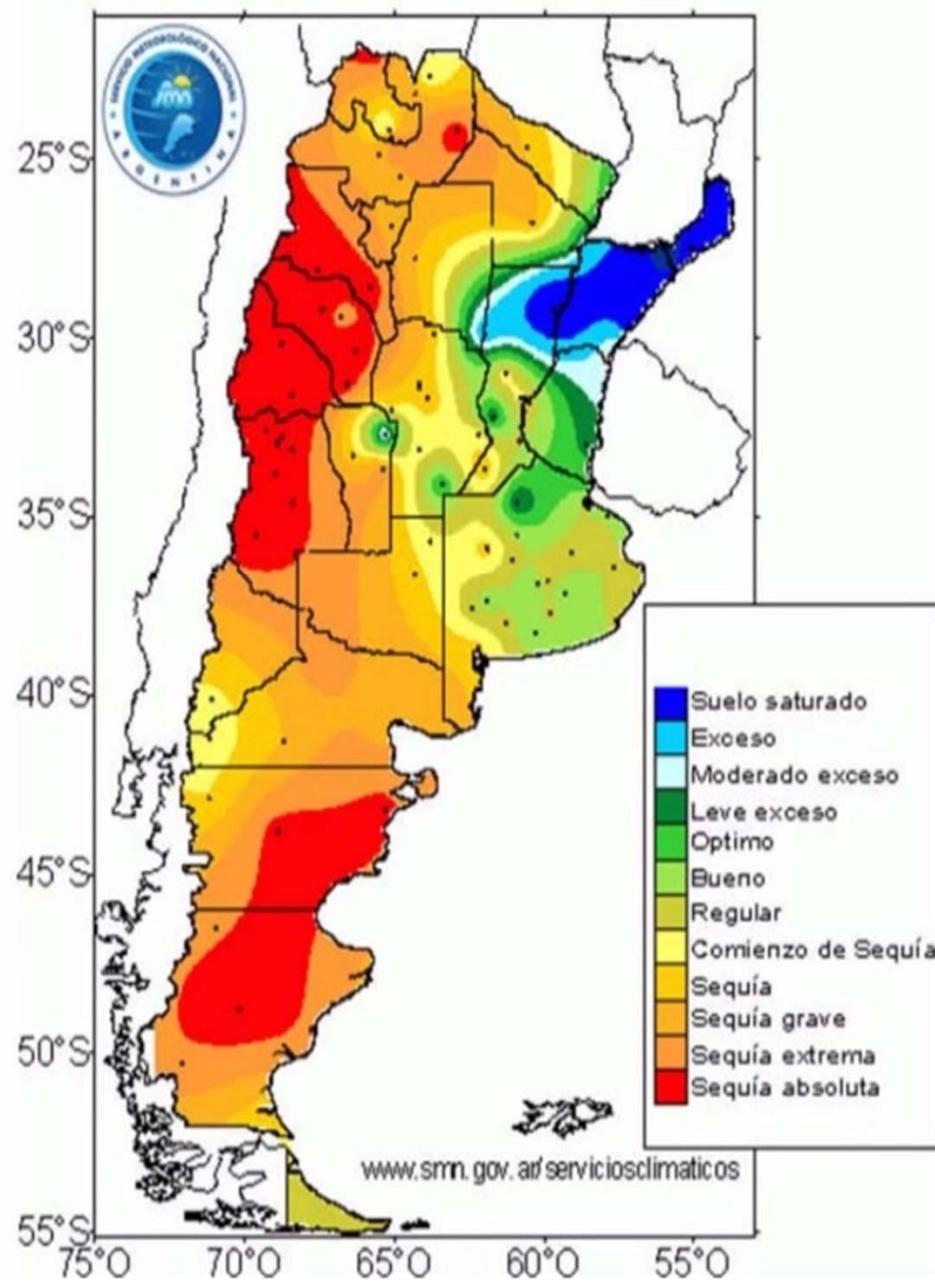


Figura 1: Izq. Precipitación acumulada octubre-diciembre 2014 (mm) , Der. Diferencia con el valor medio 1961-1990 (mm)

BALANCE HIDRICO

DECADICA AL 31 de DICIEMBRE de 2014

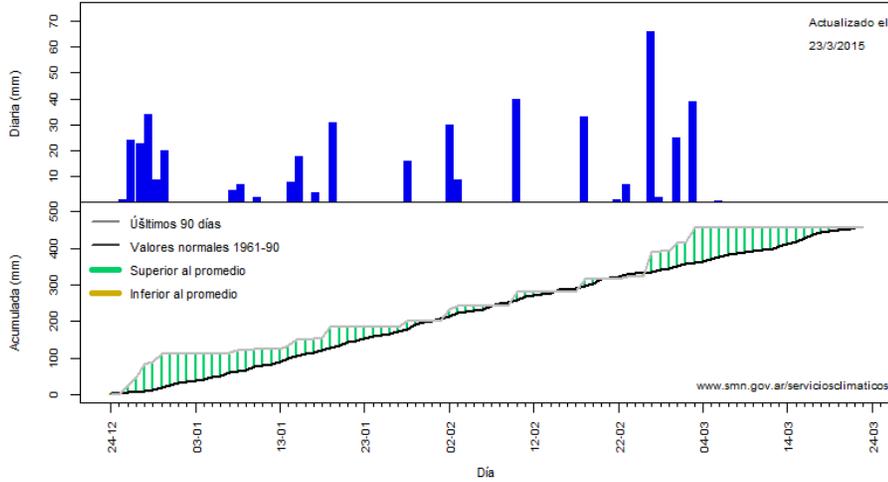


LLUVIAS ACUMULADAS DICIEMBRE DE 2014 /ENERO DE 2015

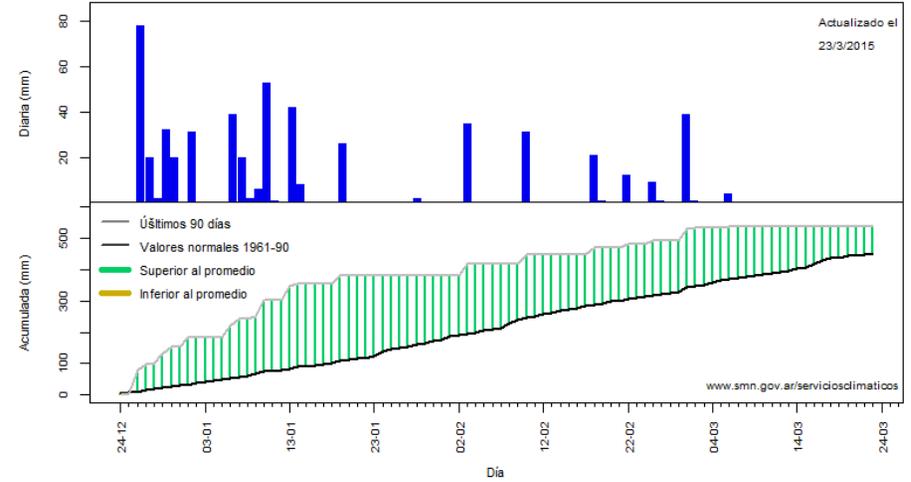
Departamentos	Media Acum. Dic+Ene	Acumulado Dic/14 y Enero/15	Diferencia (mm)	Acumulado 20 dic/14 y 20 Enero/15
Lavalle	265.9	982.0	716.1	843.0
San Roque	286.8	973.0	686.2	798.0
Goya	353.4	854.0	500.6	771.0
Bella Vista	269.1	647.5	378.4	625.0
Curuzu Cuatia (Peru)	300.9	650.0	349.1	625.0
San Martin (Col. Pel)	262.2	750.0	487.8	614.0
Mercedes	251.0	795.0	544.0	592.0
Ituzaingo	357.4	760.0	402.6	584.0
Mburucuya	256.2	753.5	497.3	582.0
Curuzu Cuatia	300.9	762.0	461.1	529.0
Sauce	258.3	592.0	333.7	484.0
Monte Caseros (Mo)	276.8	678.0	401.2	475.0
Paso de los Libres	272.2	586.0	313.8	456.7
Beron de Astrada	224.4	557.0	332.6	453.0
Concepcion	267.6	666.0	398.4	436.0
Esquina	232.5	551.0	318.5	426.0
San Martin (La Cruz)	262.2	500.0	237.8	408.0
Santo Tome	252.5	641.0	388.5	408.0
General Paz	270.1	585.0	314.9	407.0
Monte Caseros	276.8	491.0	214.2	401.0
Alvear	204.2	436.0	231.8	375.0
Saladas	235.2	456.0	220.8	368.0
Empedrado	253.3	508.0	254.7	353.0
San Miguel	226.5	558.0	331.5	349.0
San Luis del Palmar	248.7	327.0	78.3	257.0
Capital	231.5	313.0	81.6	209.0
Itati	234.7	263.0	28.3	165.0
San Cosme	197.7	236.0	38.3	157.0

Precipitación acumulada: 90 días

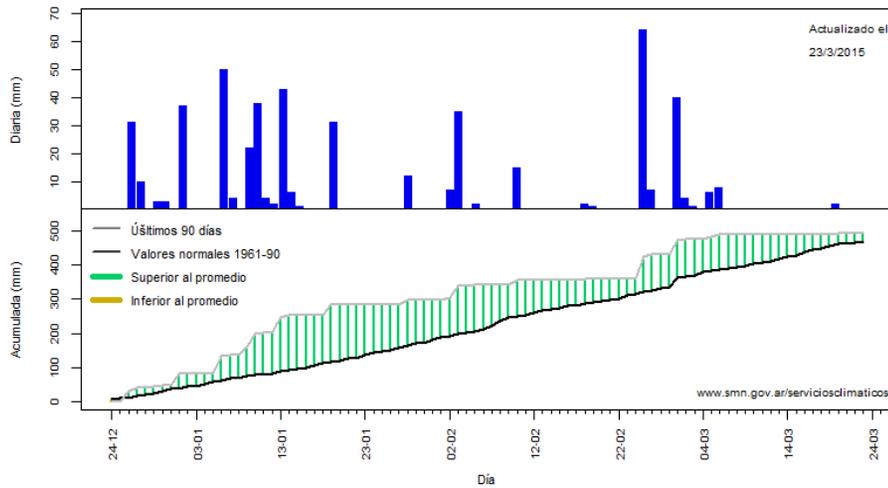
Precipitaciones Corrientes



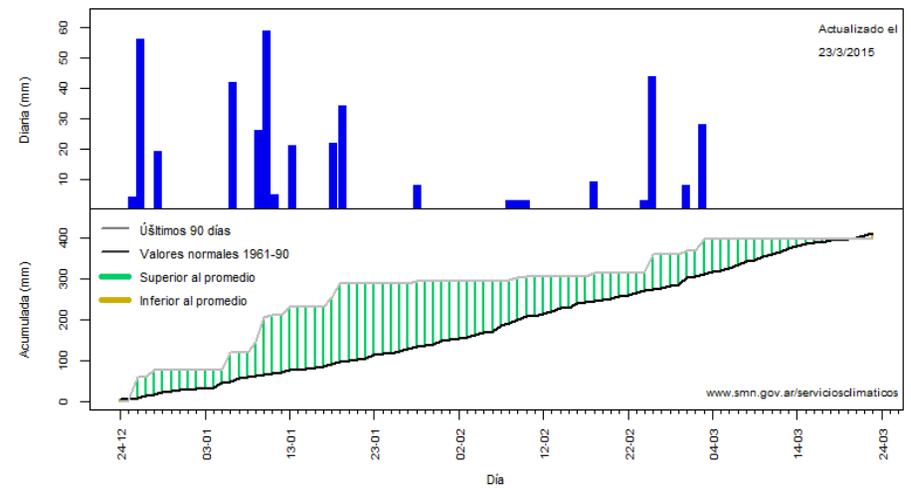
Precipitaciones Paso de los Libres



Precipitaciones Monte Caseros

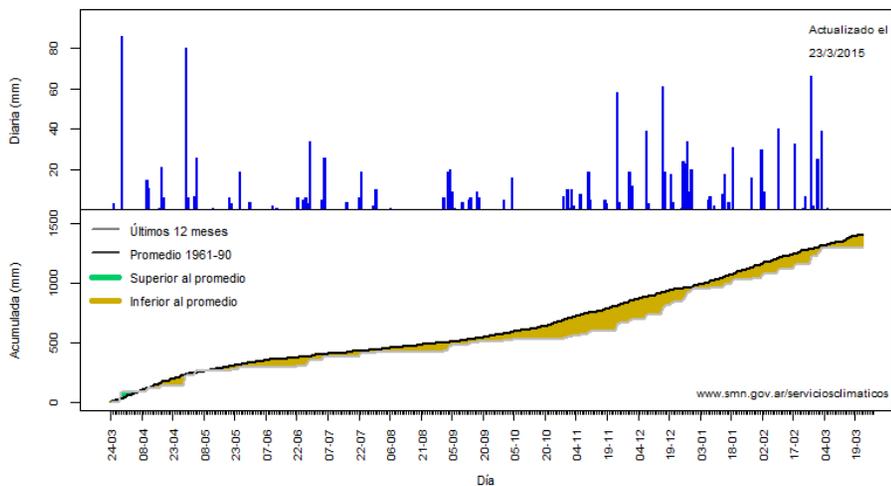


Precipitaciones Concordia

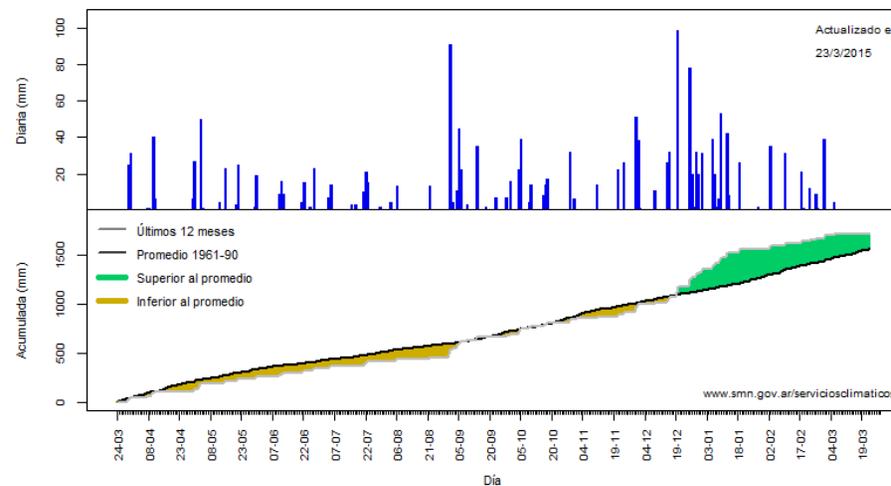


Precipitación acumulada: 360 días

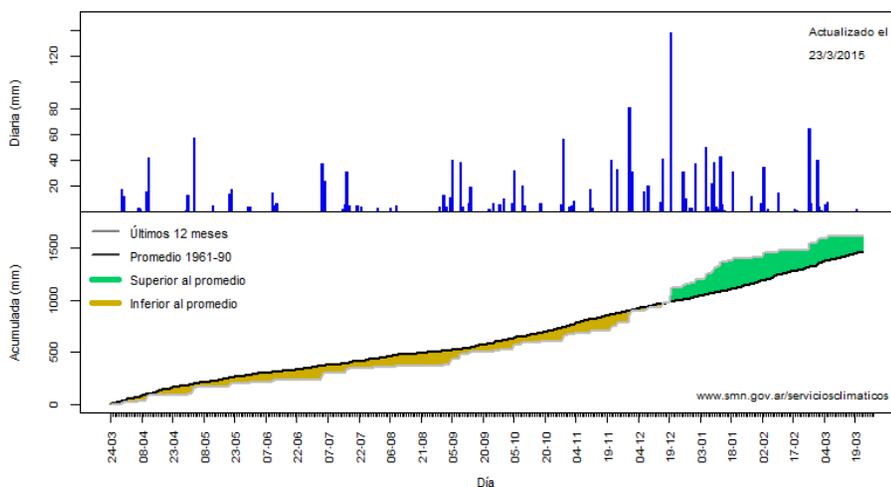
Precipitaciones Corrientes



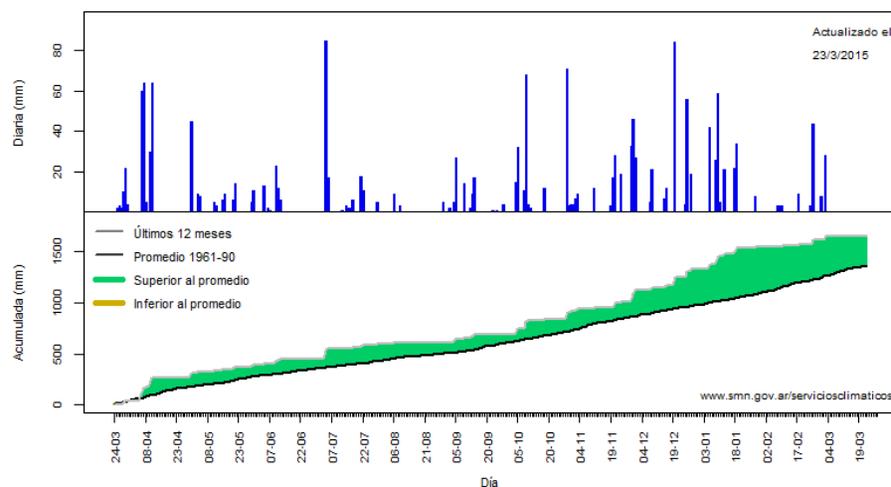
Precipitaciones Paso de los Libres



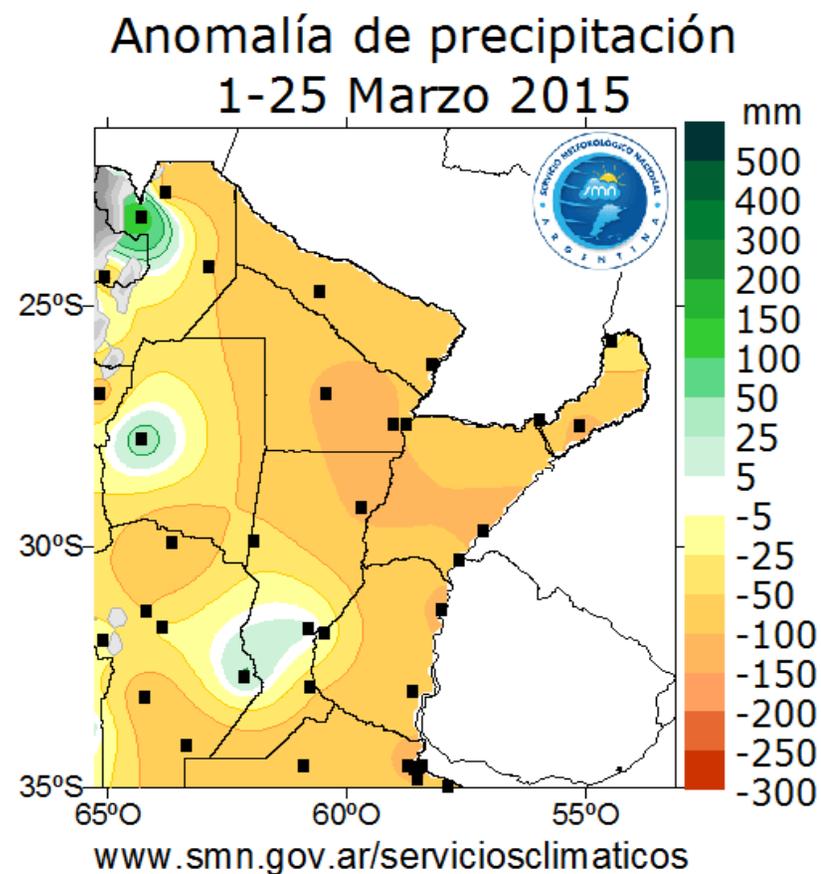
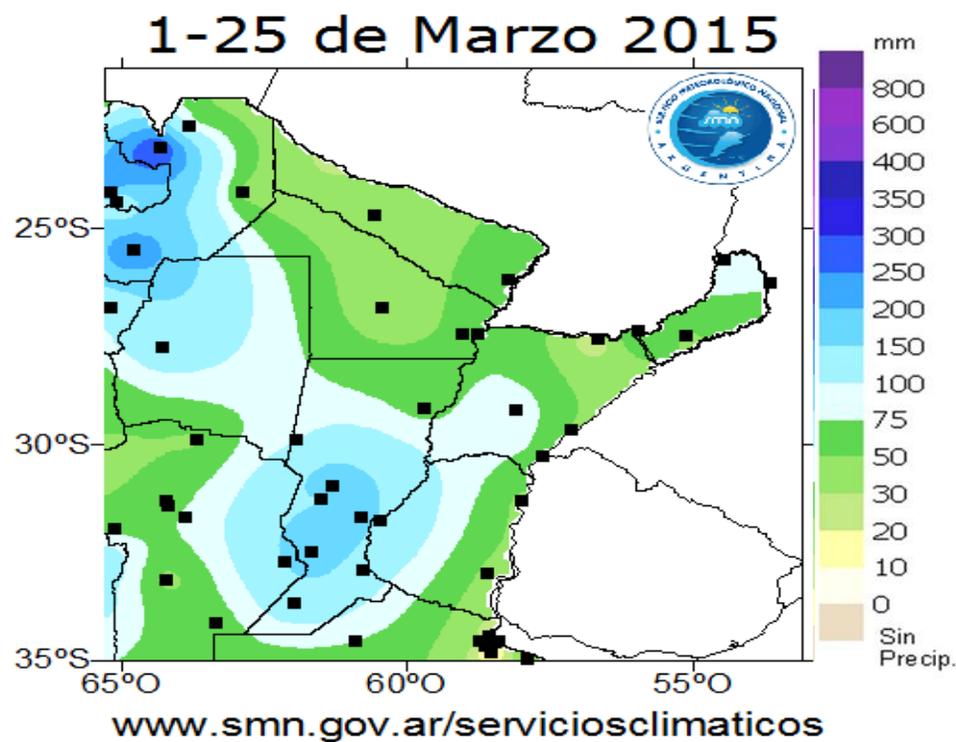
Precipitaciones Monte Caseros



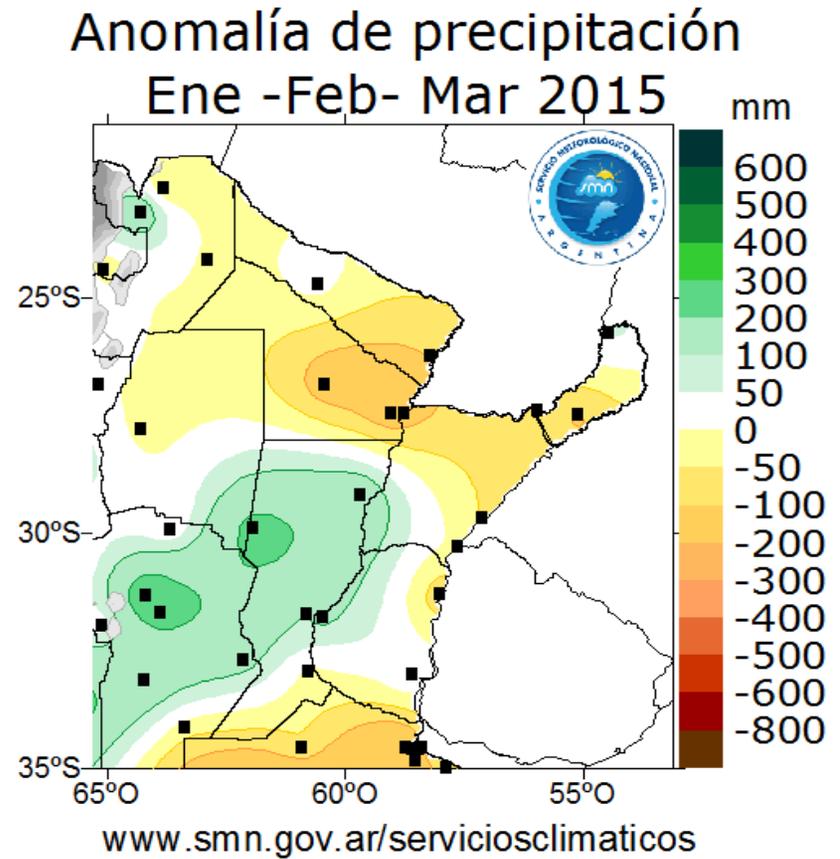
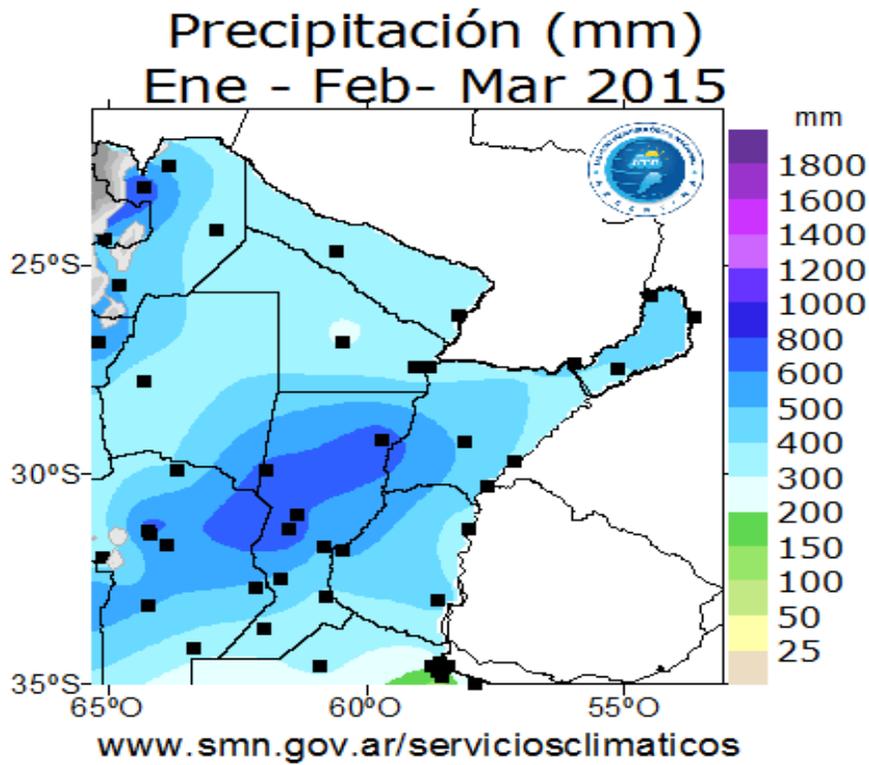
Precipitaciones Concordia



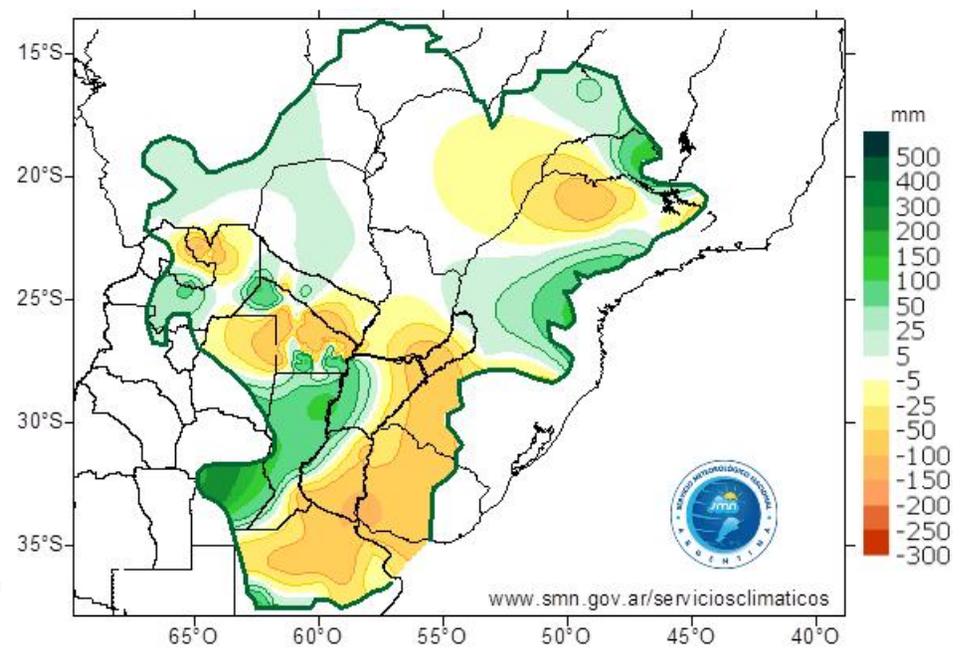
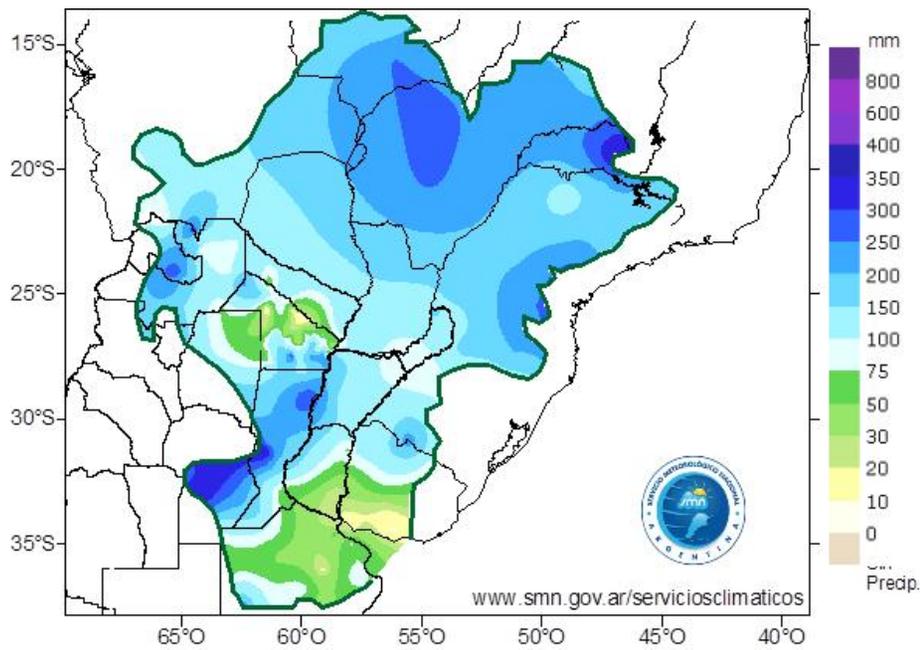
Marzo (1 al 25): precipitación y anomalía (mm)



Enero-Febrero-Marzo: precipitación y anomalía (mm)

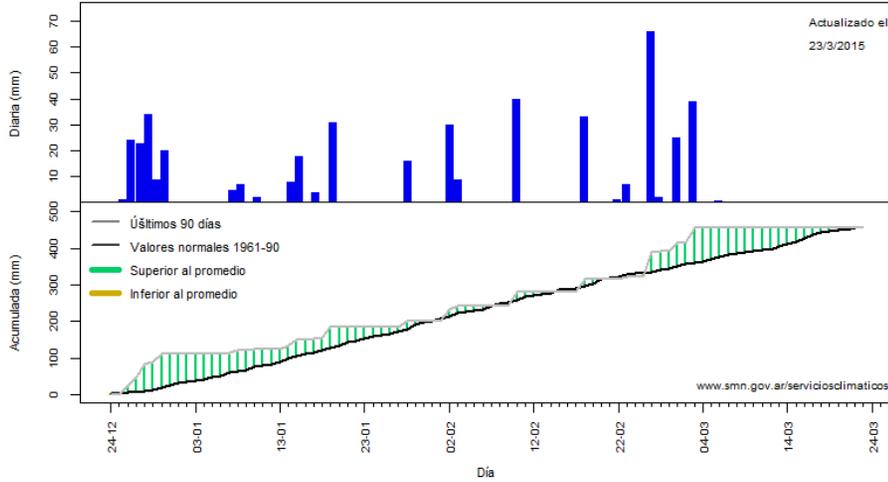


Cuenca del Plata: Precipitación y anomalía Febrero 2015

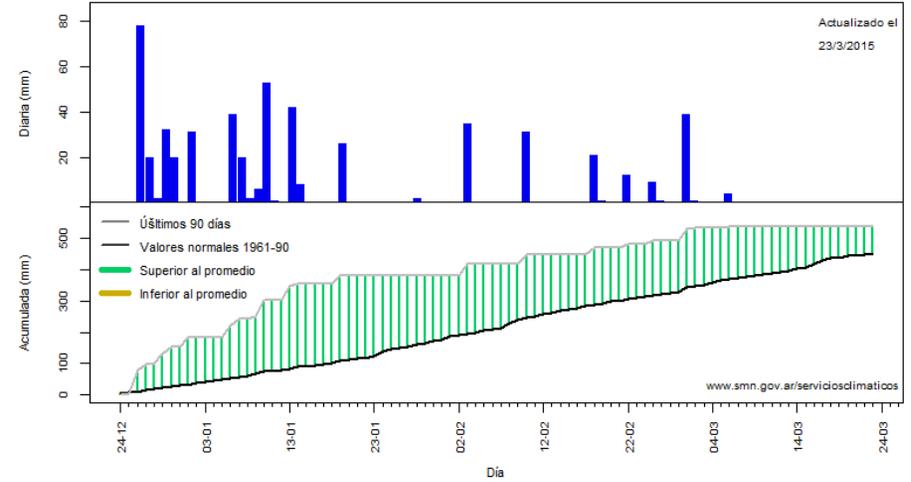


Precipitación acumulada: 90 días

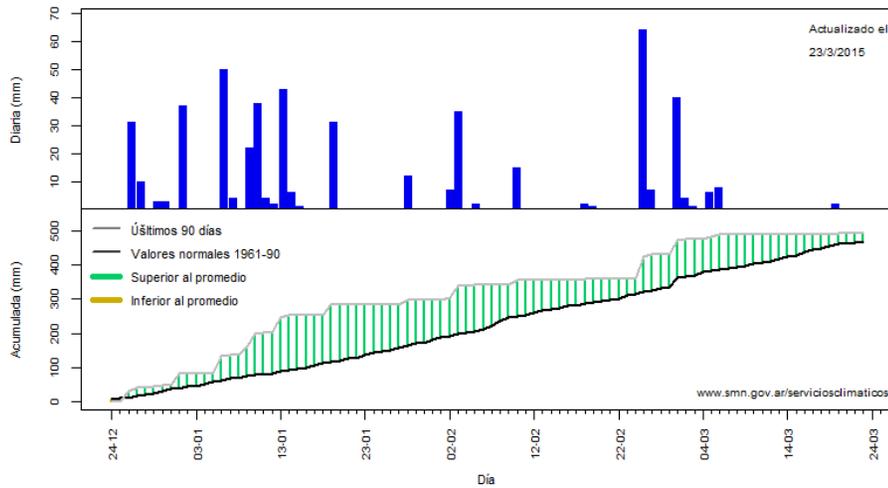
Precipitaciones Corrientes



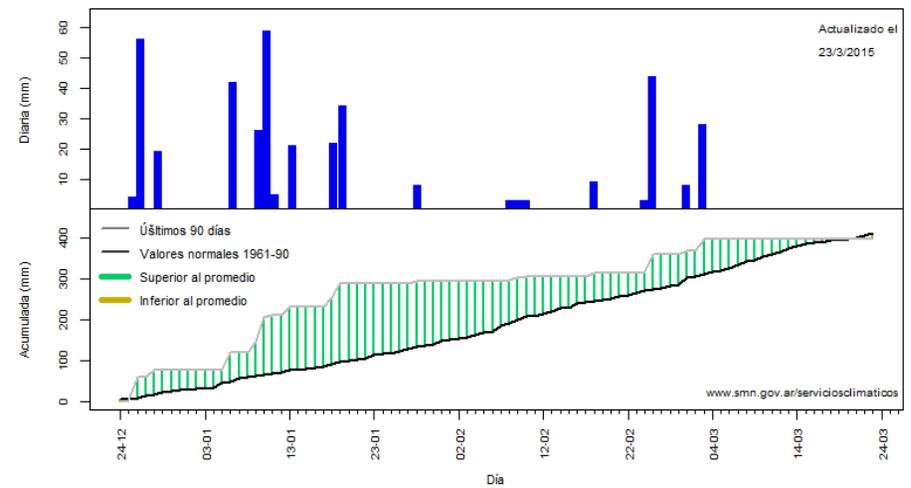
Precipitaciones Paso de los Libres



Precipitaciones Monte Caseros

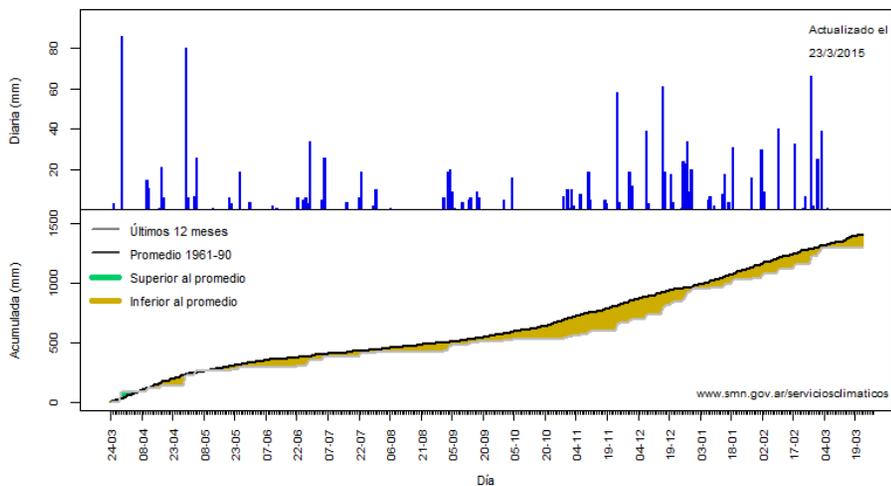


Precipitaciones Concordia

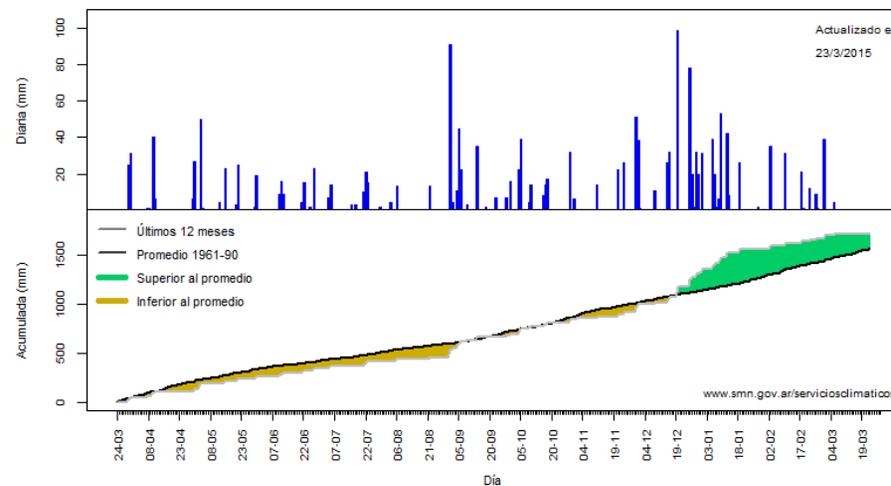


Precipitación acumulada: 360 días

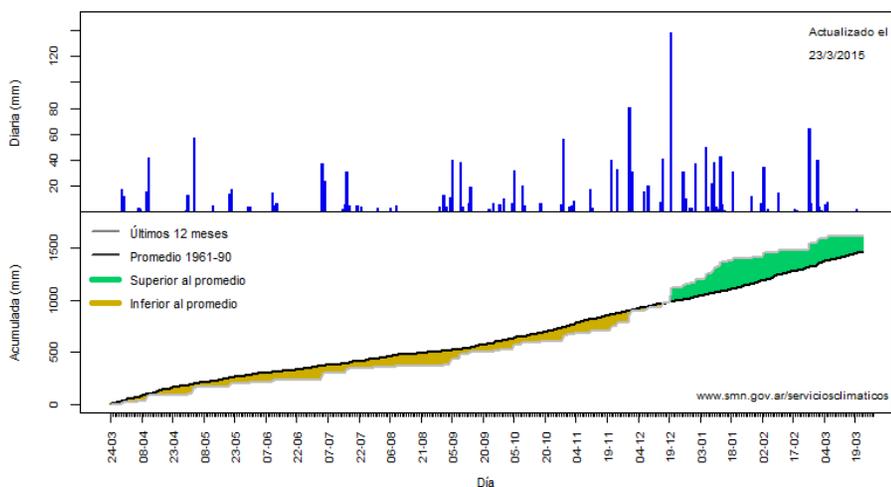
Precipitaciones Corrientes



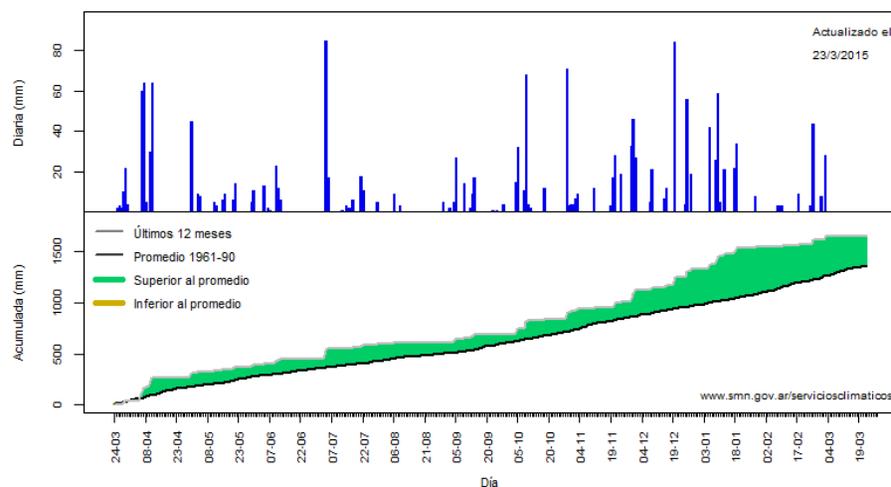
Precipitaciones Paso de los Libres



Precipitaciones Monte Caseros

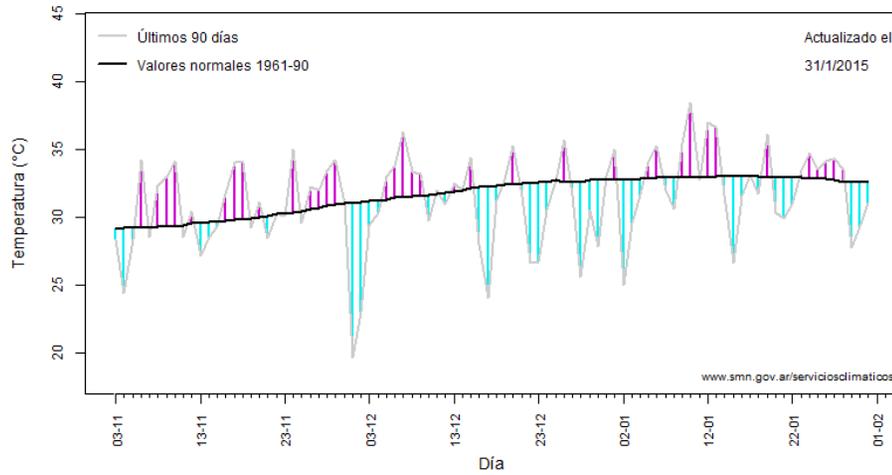


Precipitaciones Concordia

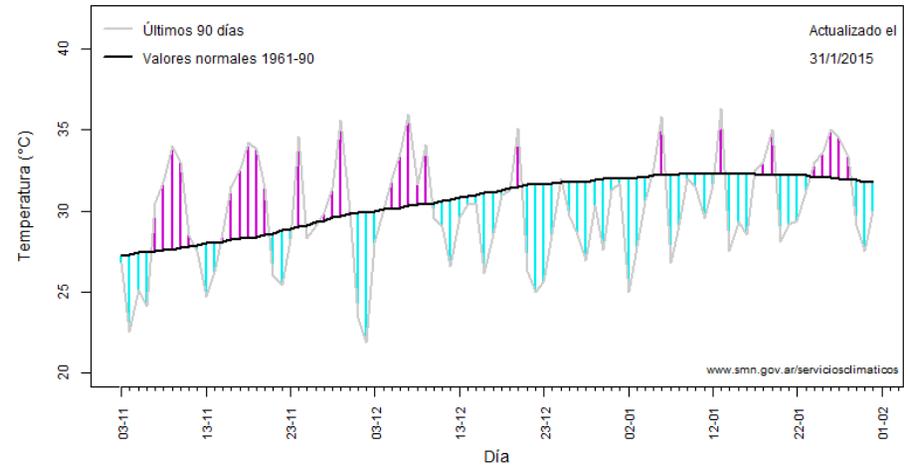


Temperaturas máximas: últimos 90 días

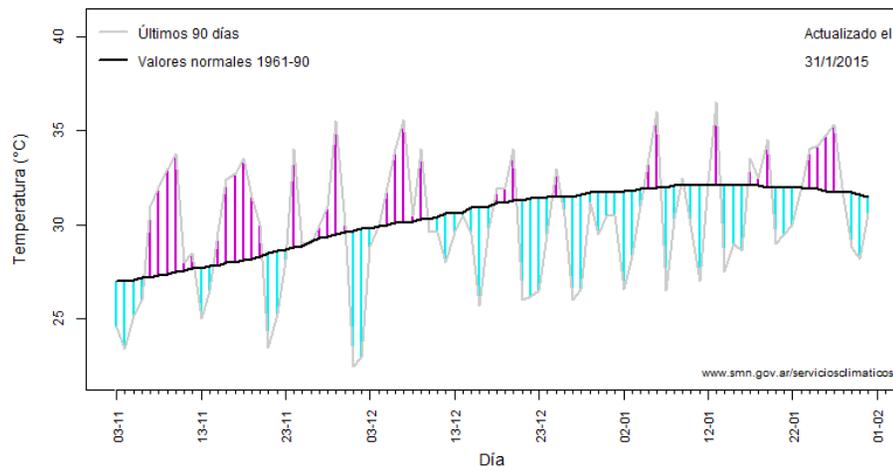
Temperatura máxima
Corrientes



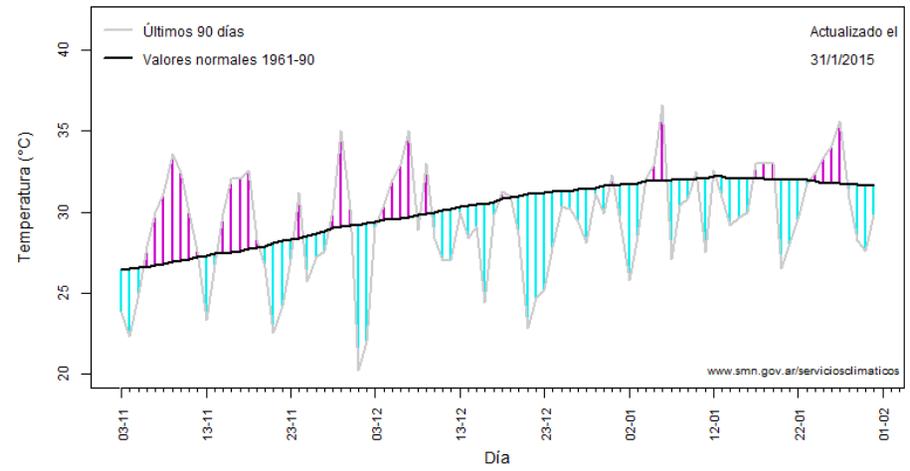
Temperatura máxima
Paso de los Libres



Temperatura máxima
Monte Caseros

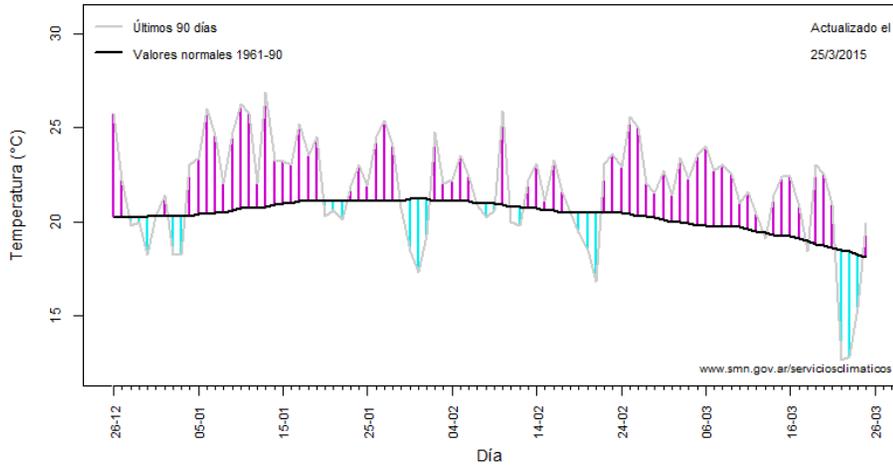


Temperatura máxima
Concordia

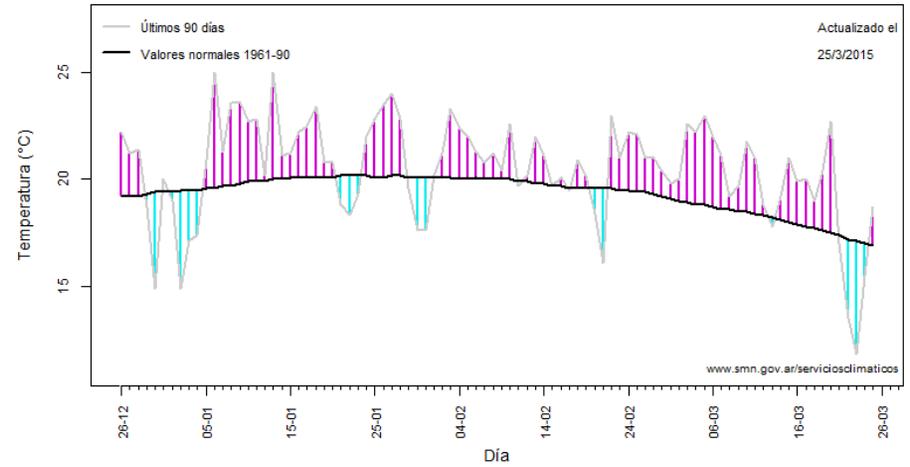


Temperaturas mínimas: últimos 90 días

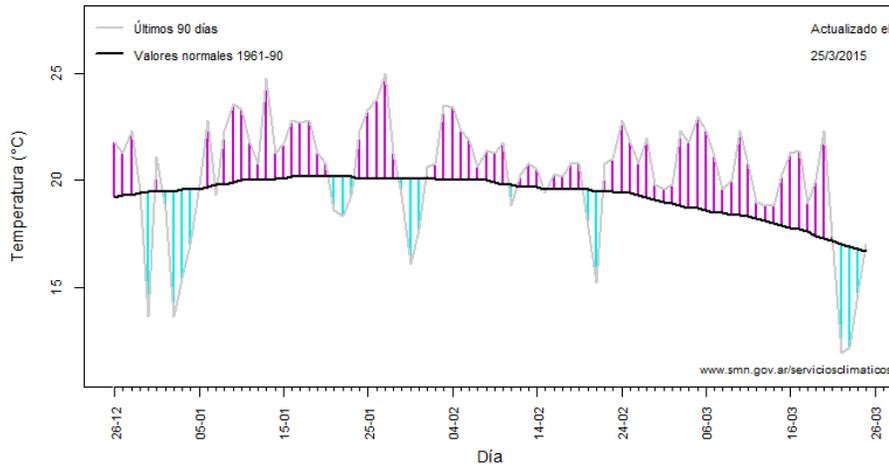
Temperatura mínima
Corrientes



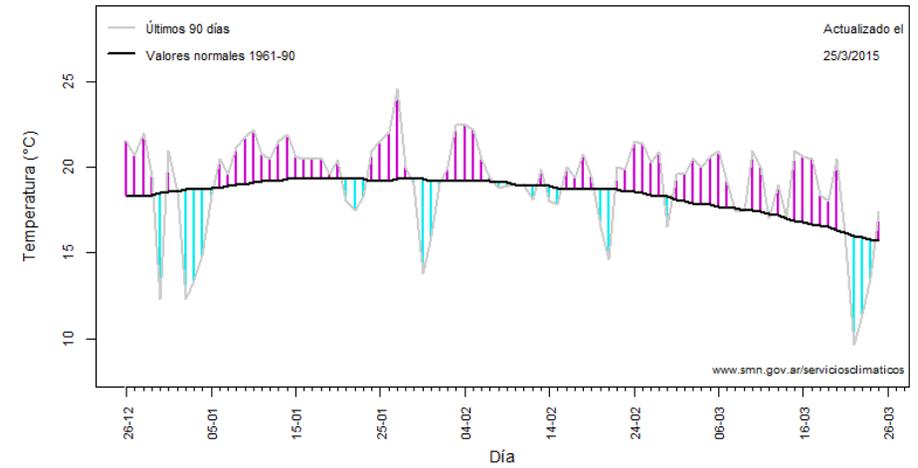
Temperatura mínima
Paso de los Libres



Temperatura mínima
Monte Caseros



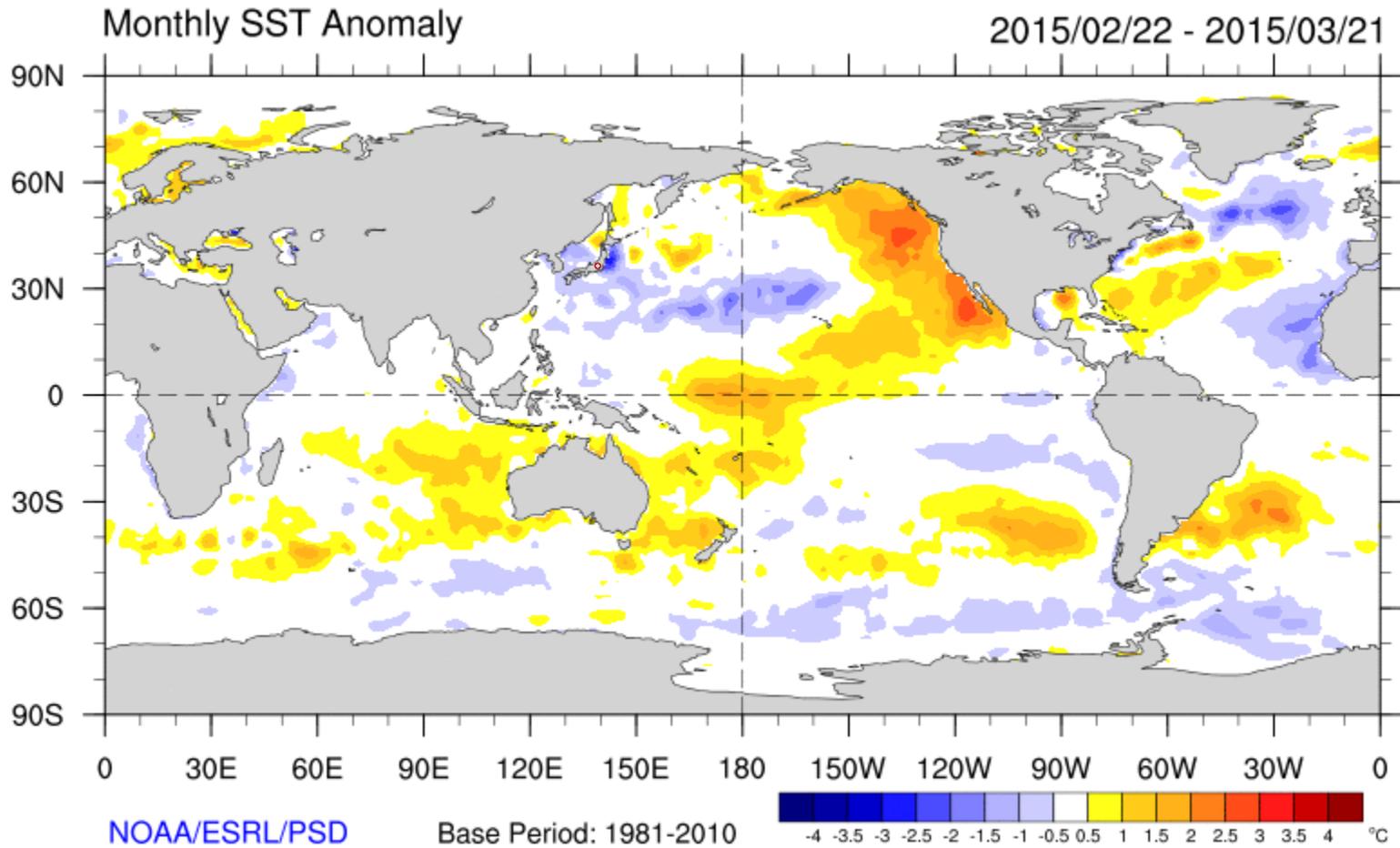
Temperatura mínima
Concordia



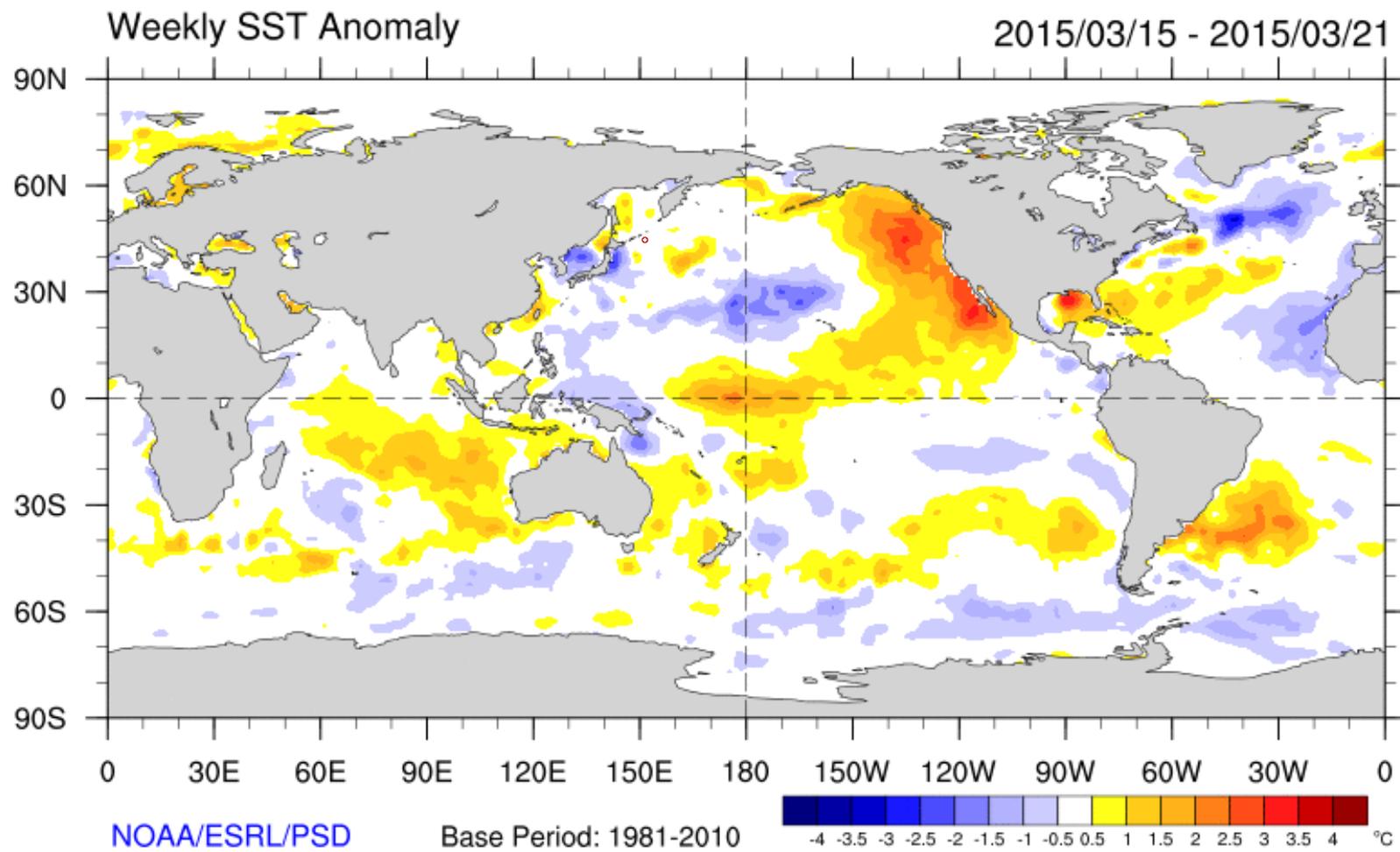
Situación actual del Fenómeno “El Niño “

Oscilación del Sur y Pronóstico de su evolución

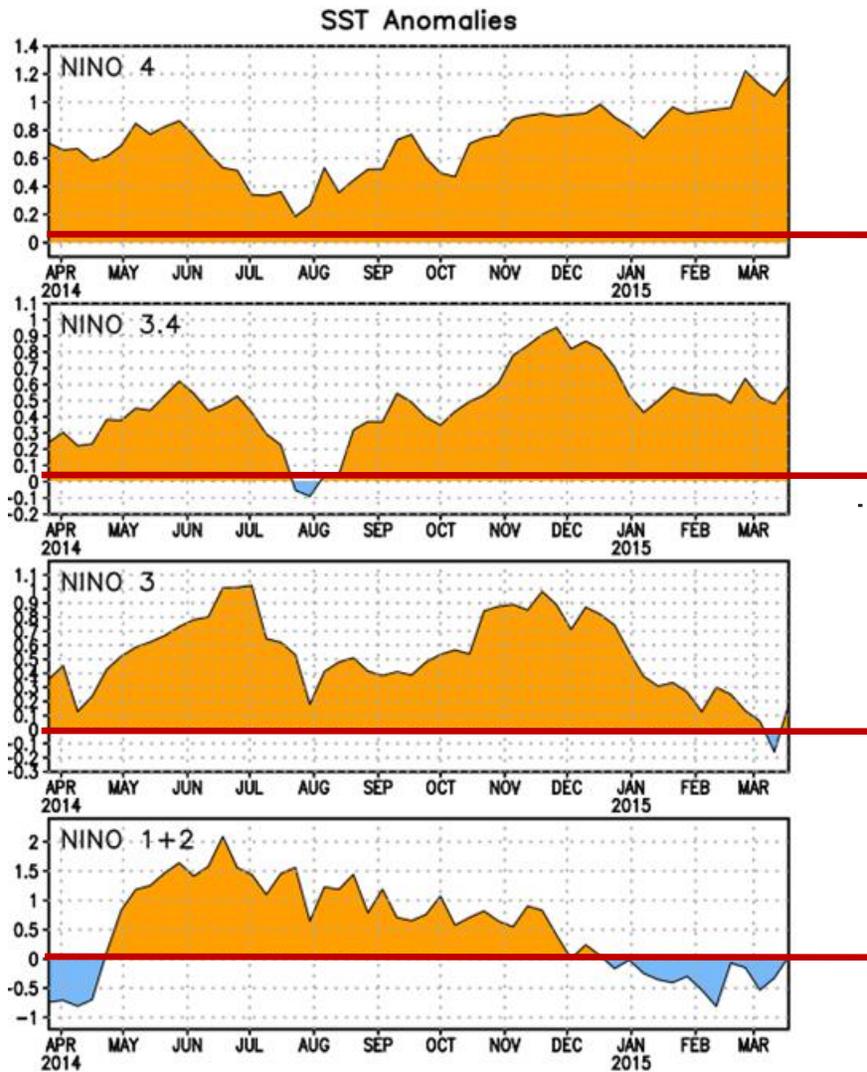
Anomalía de la temperatura superficial del mar (TSM) 22 de febrero al 21 de Marzo 2015



Anomalía de la temperatura superficial del mar (TSM) 15 al 21 de Marzo 2015



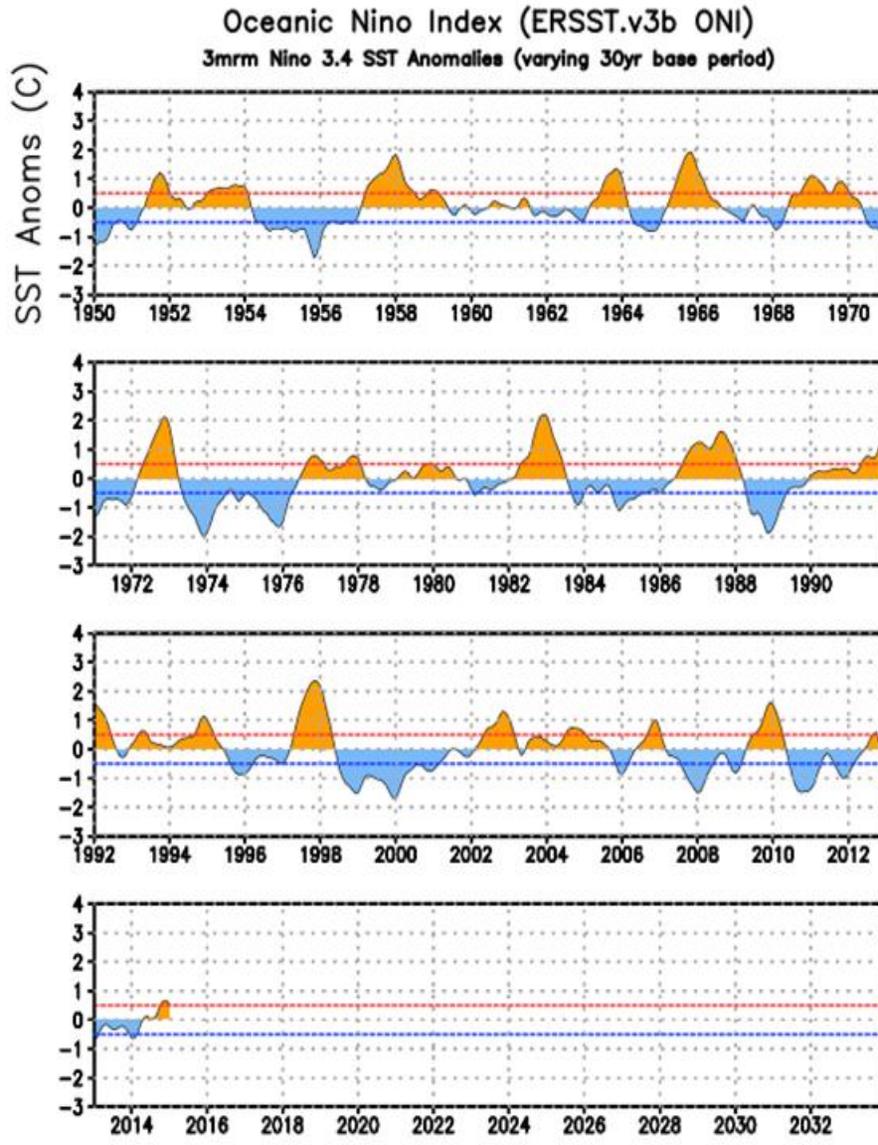
Evolución TSM por regiones Niño



Ultima semana

Niño 4	1.2°C
Niño 3.4	0.6°C
Niño 3	0.2°C
Niño 1+2	0.0°C

Evolución Índice Oceánico

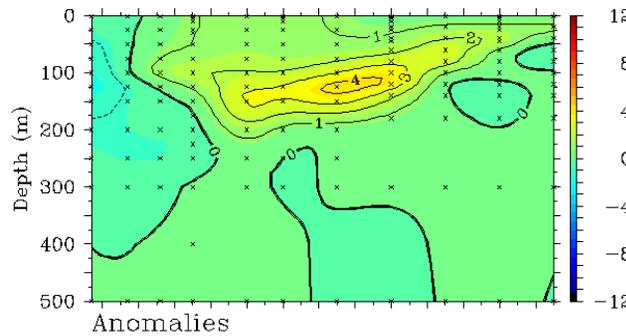
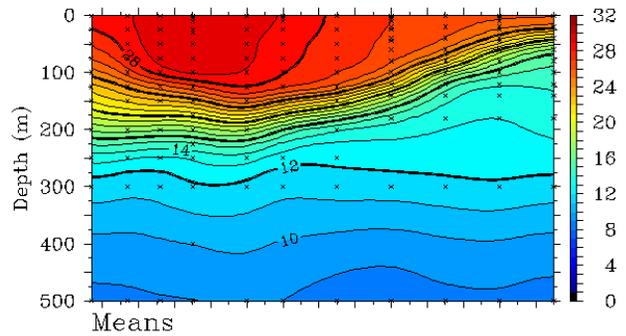


Dic-Ene-Feb : +0.6

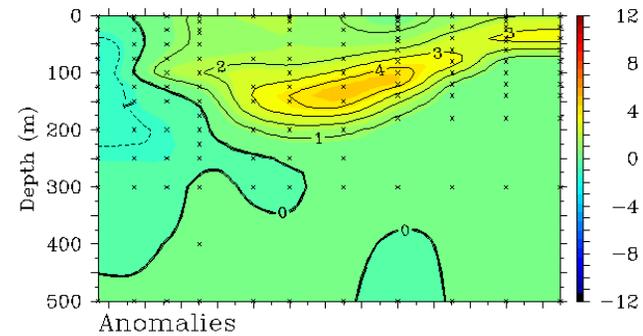
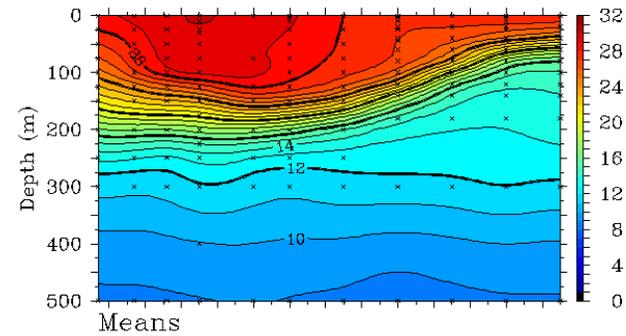
Si el trimestre Ene-Feb-Mar
es igual o mayor a +0,5
cumpliría con el criterio
que define un evento NIÑO

Anomalía de la temperatura subsuperficial del mar (TSM)

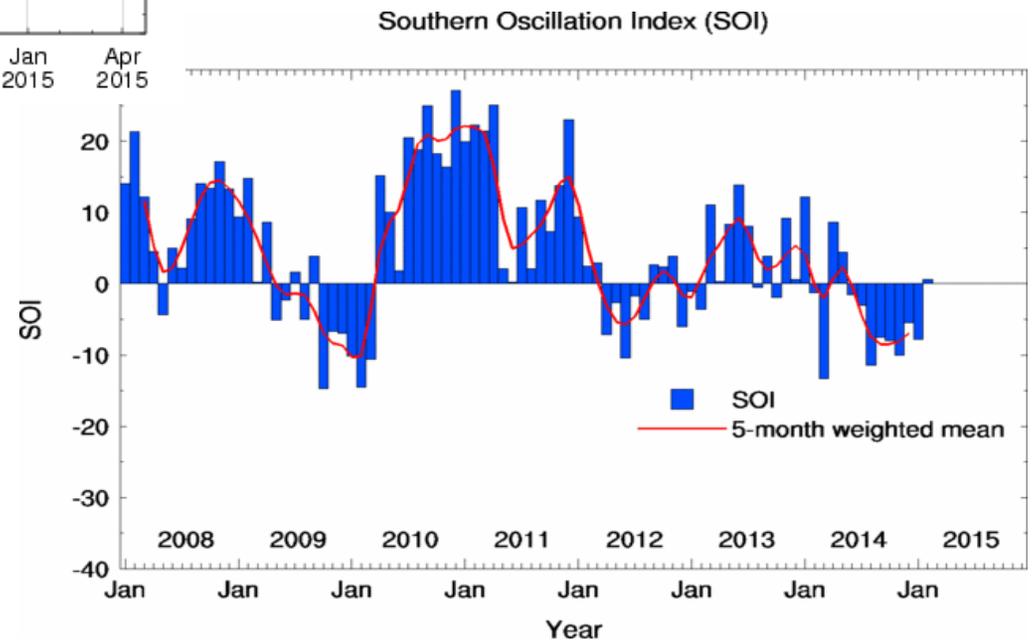
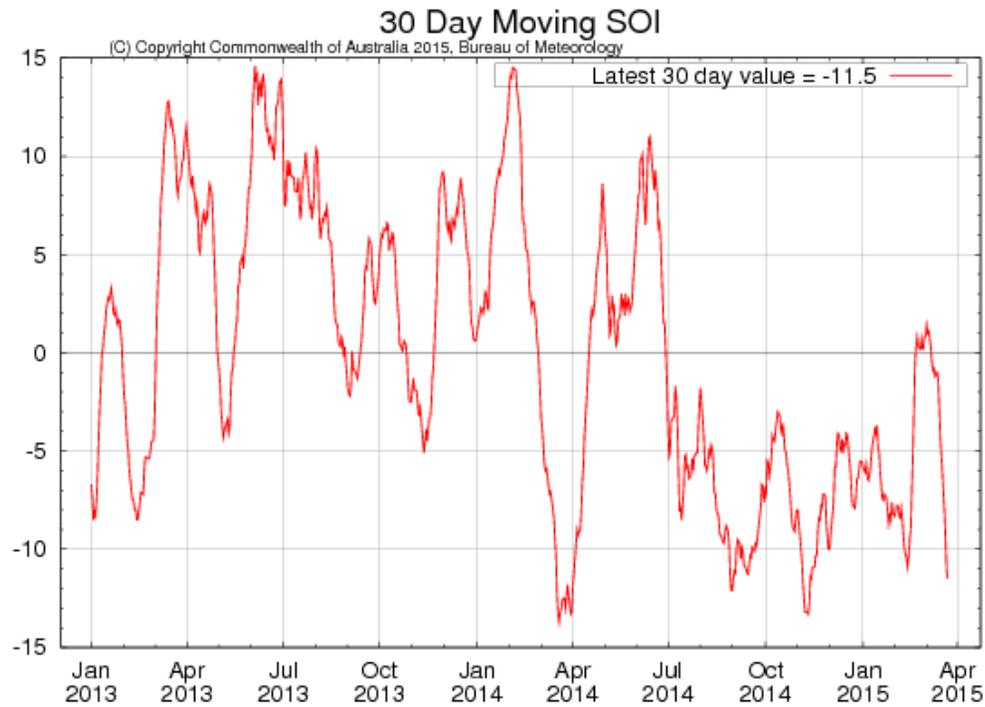
TAO/TRITON 5-Day Mean Temperatures (°C)
Ending on March 15 2015 2°S to 2°N Average
140°E 160°E 180° 160°W 140°W 120°W 100°W



TAO/TRITON 5-Day Mean Temperatures (°C)
Ending on March 25 2015 2°S to 2°N Average
140°E 160°E 180° 160°W 140°W 120°W 100°W

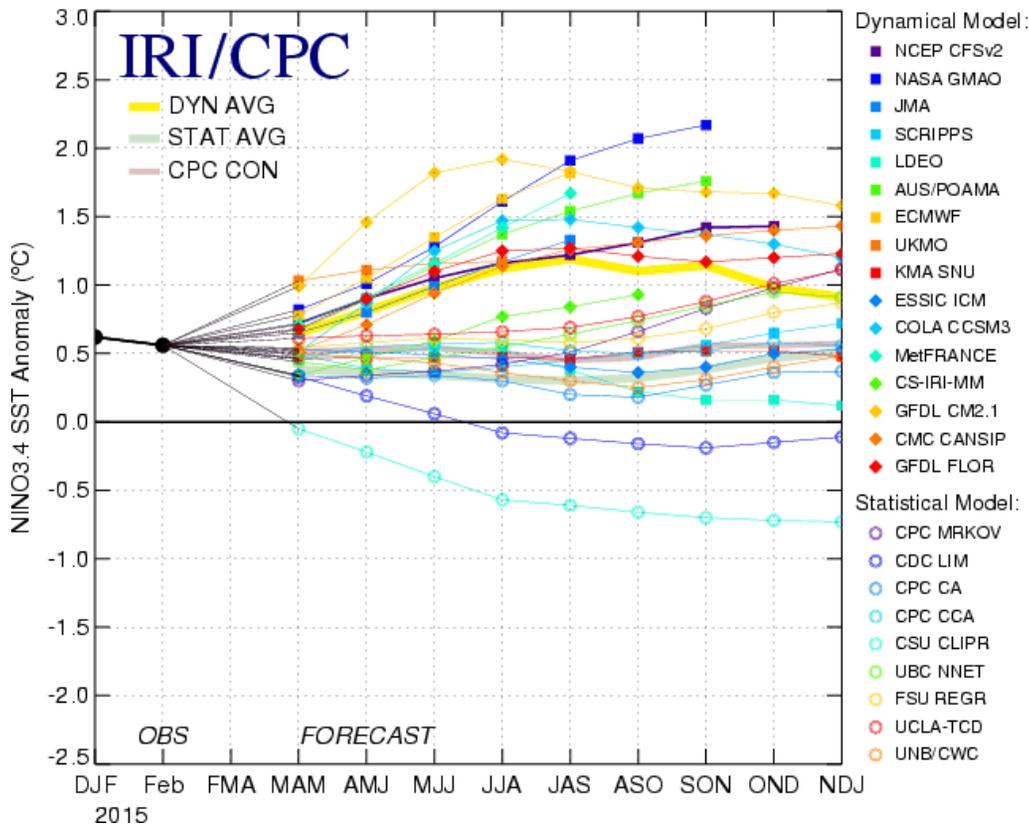


Evolución Índice Oscilación del Sur

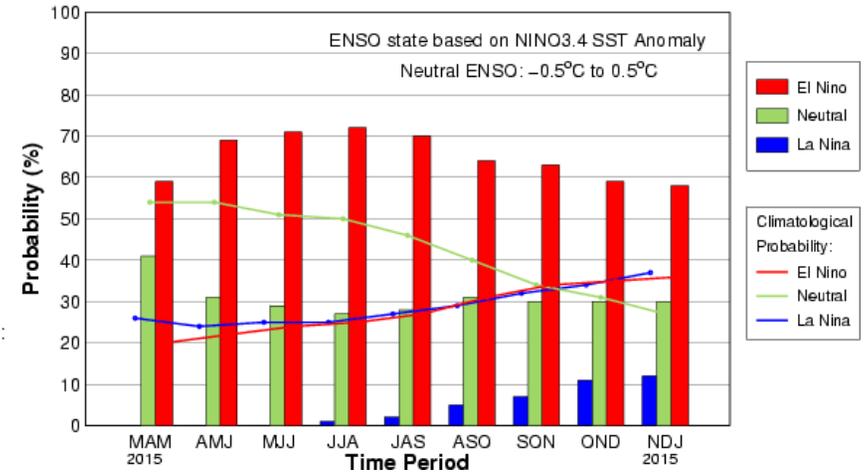


Pronóstico anomalía TSM

Mid-Mar 2015 Plume of Model ENSO Predictions

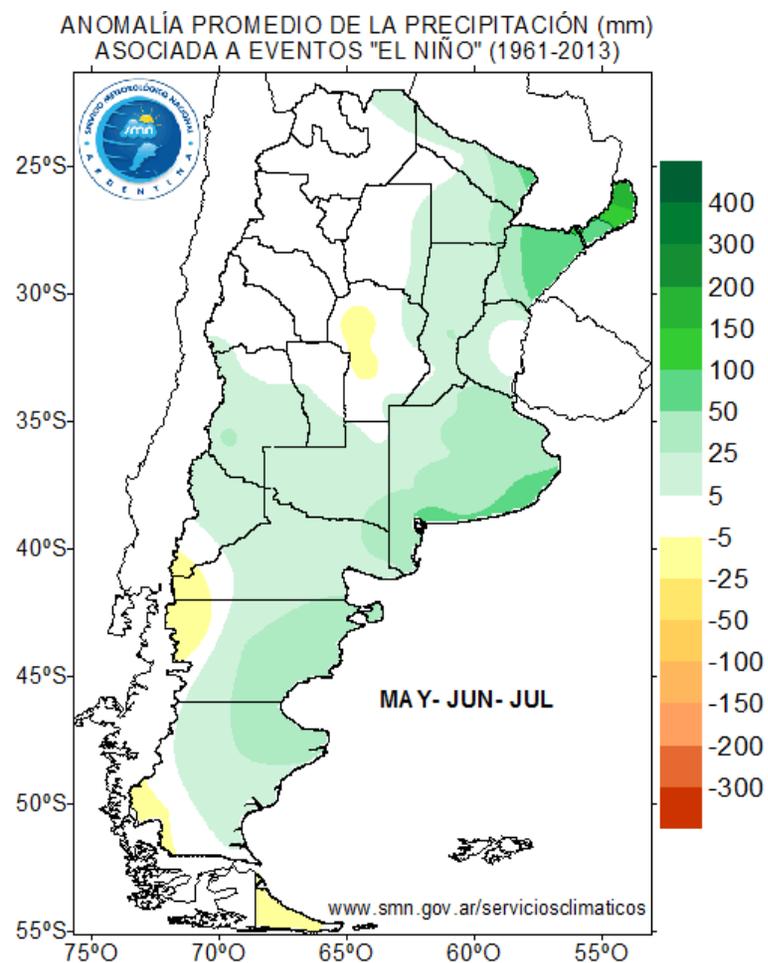
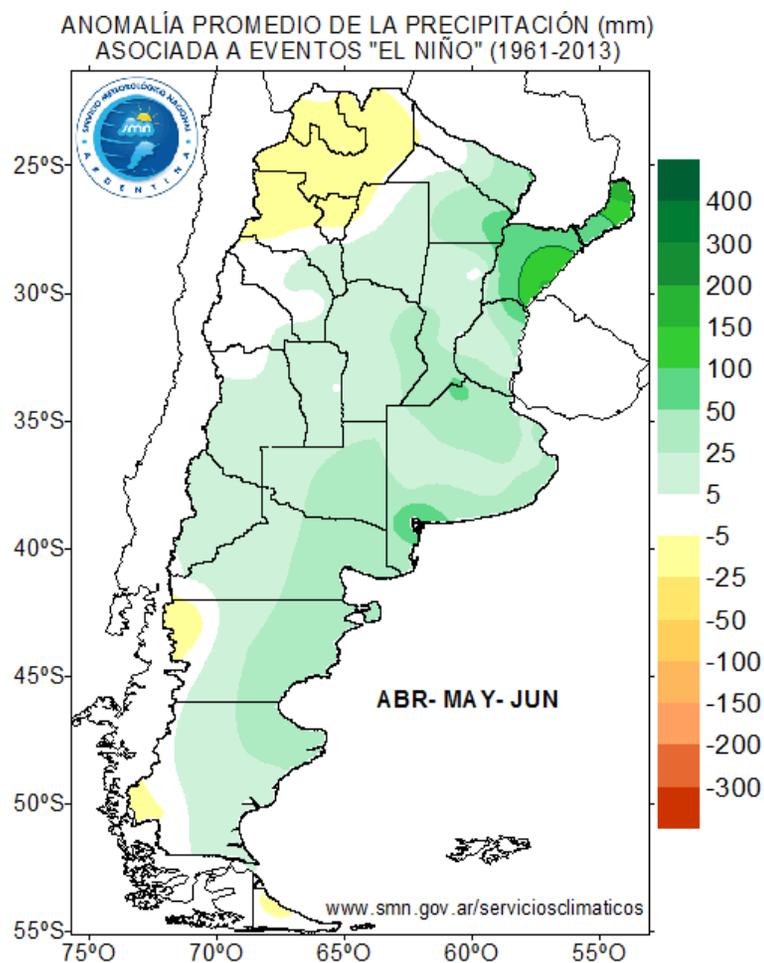


Mid-Mar IRI/CPC Plume-Based Probabilistic ENSO Forecast



Media de todos los modelos AMJ: +0.6

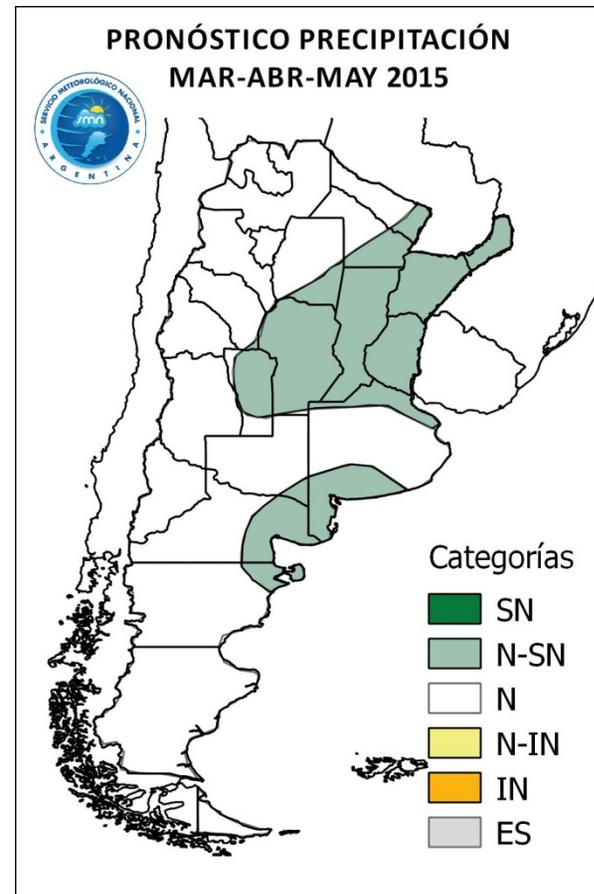
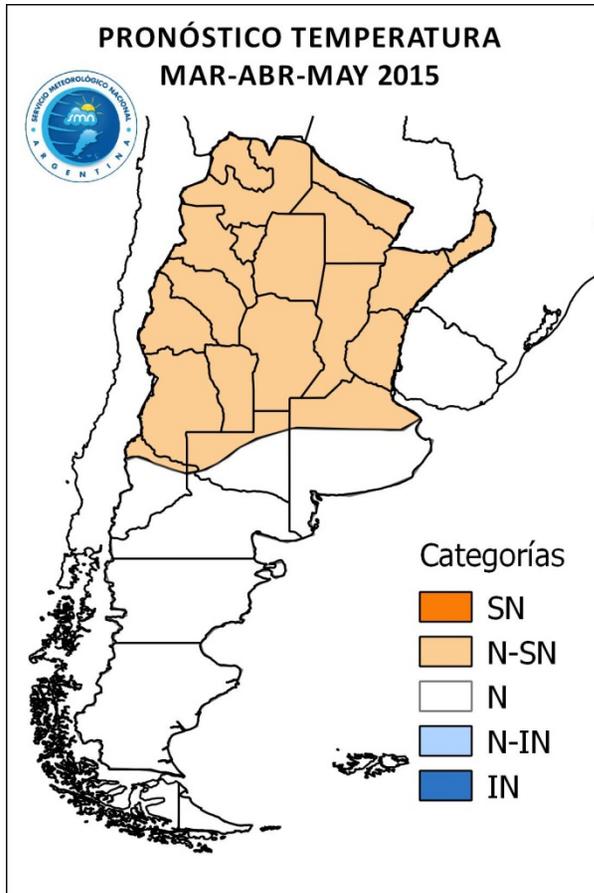
Campos medios de pp en la fase NIÑO en AMJ y MJJ



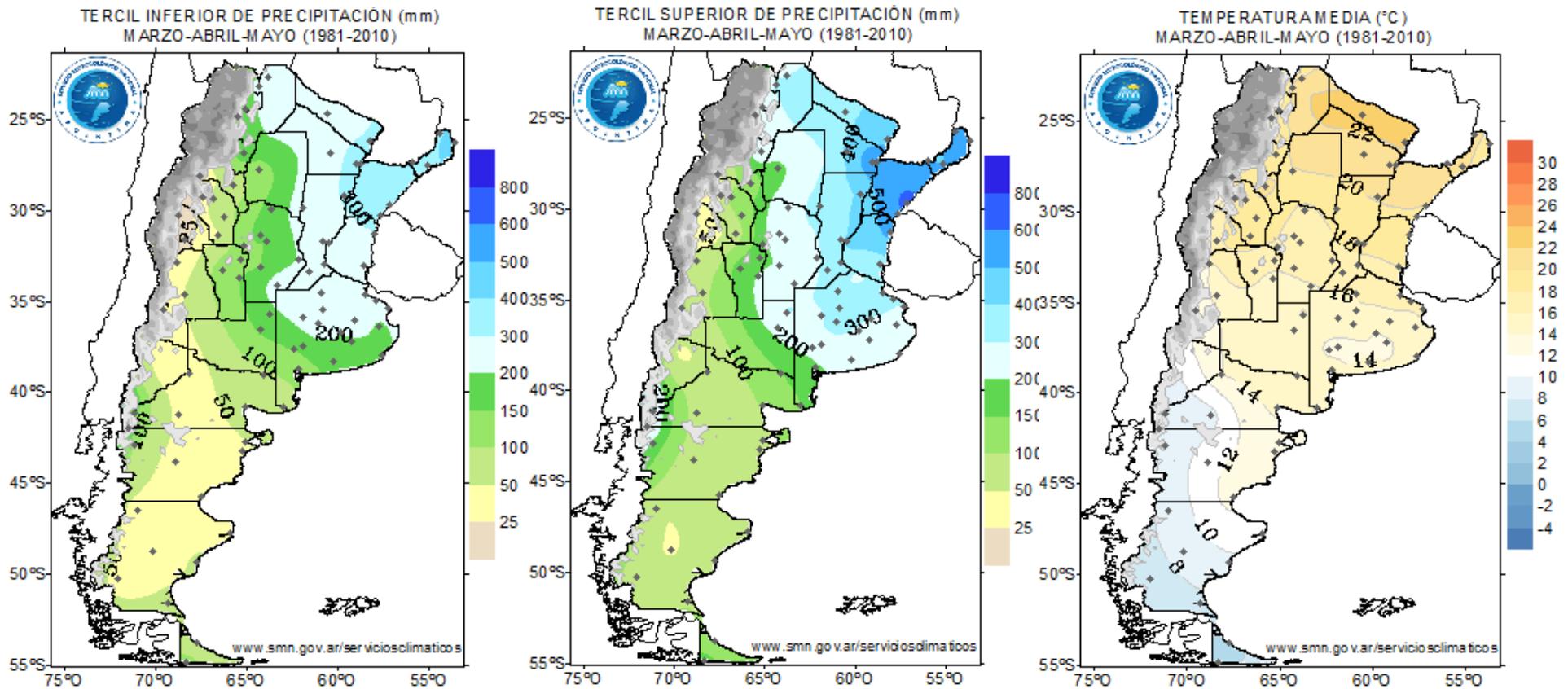
Resumen:

- ❖ Las condiciones actuales se asemejan a las de una fase Niño débil.
- ❖ Hay indicadores de que podría intensificarse
- ❖ Para el trimestre Abril-Mayo-Junio hay una alta probabilidad de tener una fase Niño (69%).
- ❖ Tener en cuenta que en esta época es cuando menos confiabilidad tienen los modelos

Pronóstico de consenso para MAM del SMN



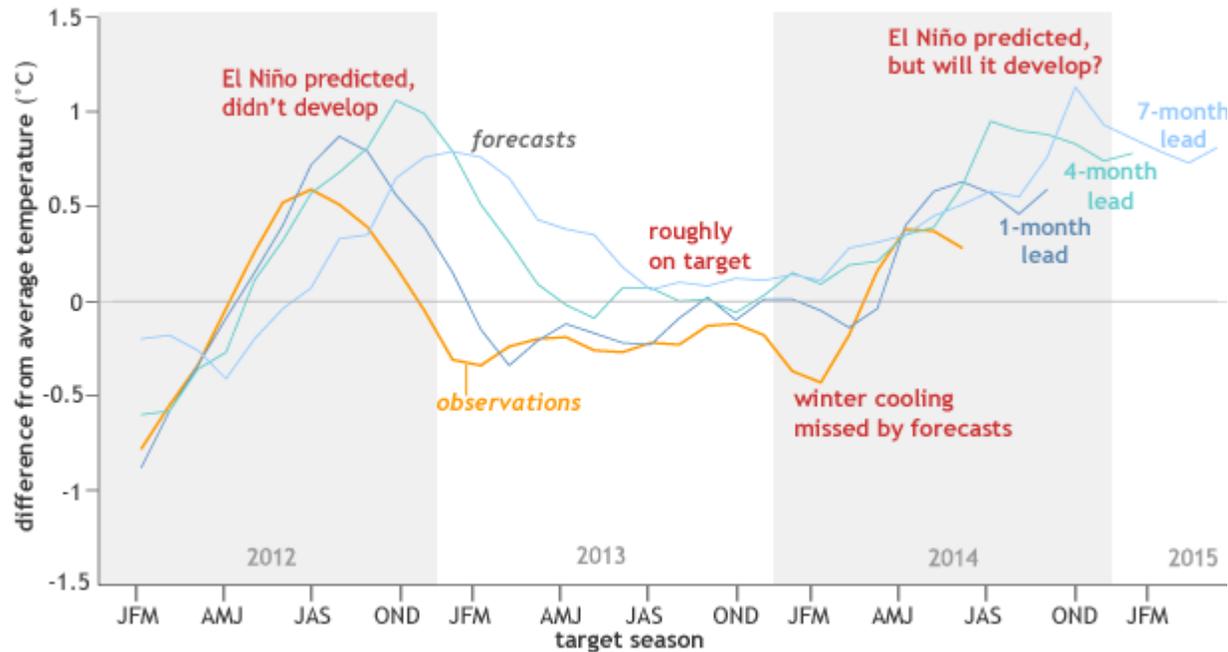
Valores medios para el trimestre MAM



Limitaciones de los pronósticos

Verificación últimos tres años (2012-2014)

ENSO forecasts compared to observations: dynamic models

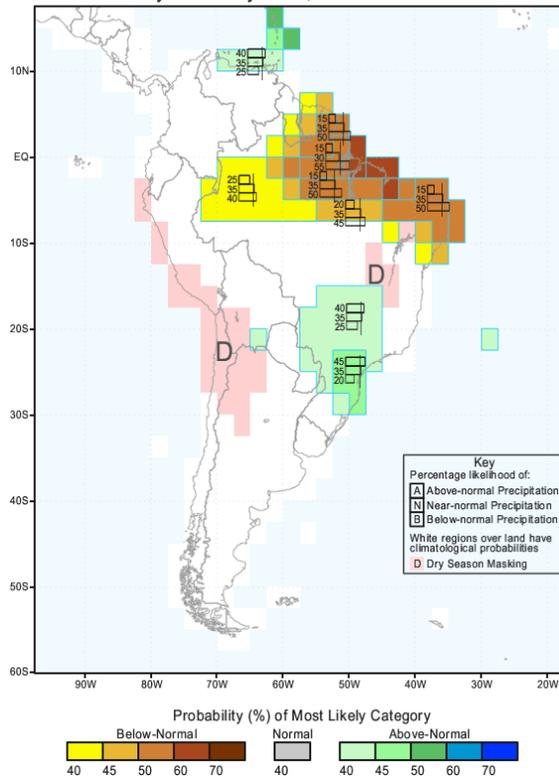


meses

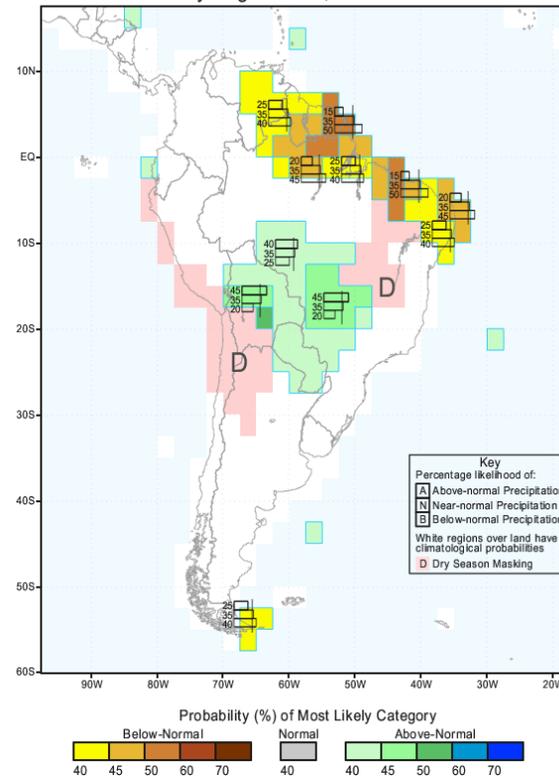
Model Type	Correlation Coefficient		
	Lead 1	Lead 4	Lead 7
<i>Dynamical</i>	0.89	0.60	0.14
<i>Statistical</i>	0.79	0.46	0.12

Pronósticos de precipitación a más largo plazo

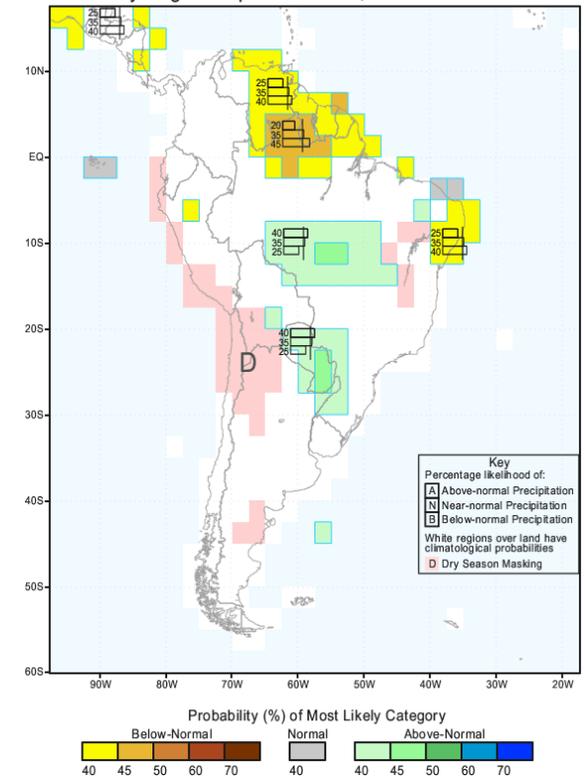
IRI Multi-Model Probability Forecast for Precipitation for May-June-July 2015, Issued March 2015



IRI Multi-Model Probability Forecast for Precipitation for June-July-August 2015, Issued March 2015

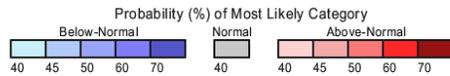
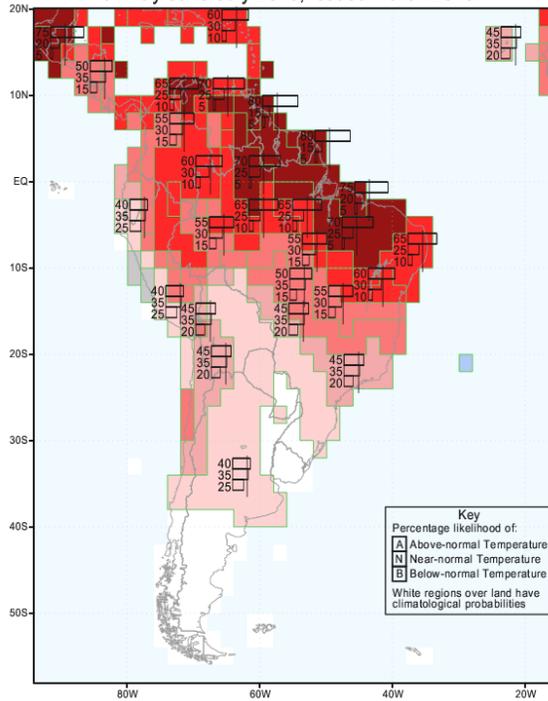


IRI Multi-Model Probability Forecast for Precipitation for July-August-September 2015, Issued March 2015

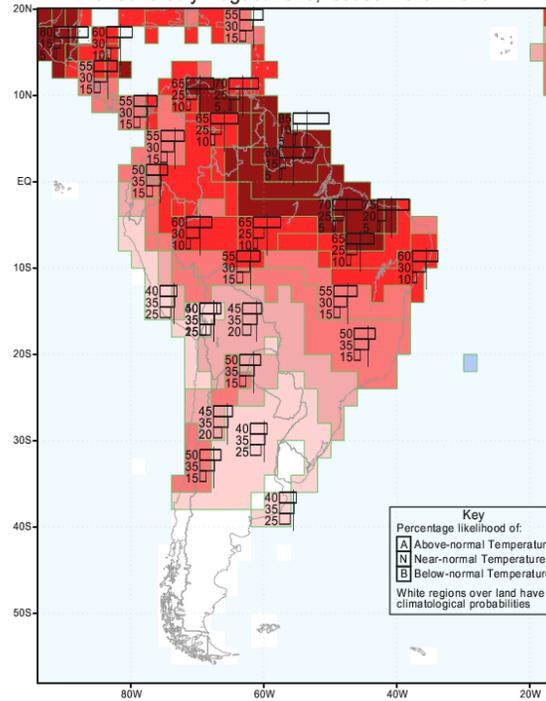


Pronósticos de temperatura a más largo plazo

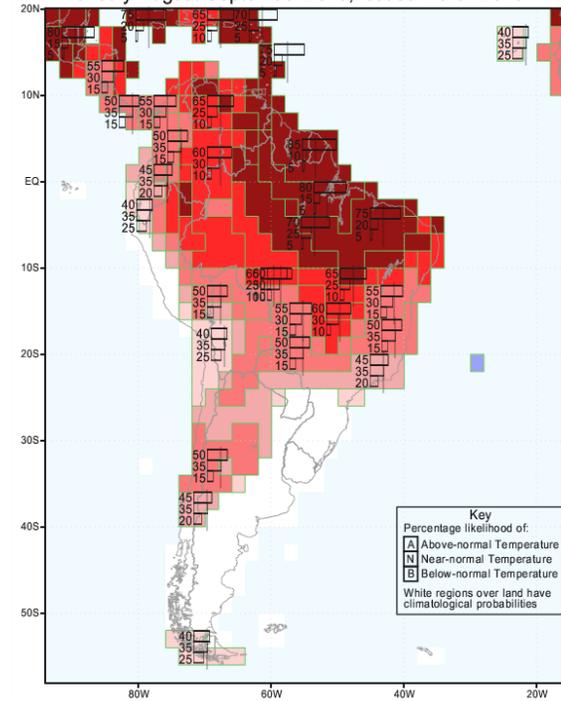
IRI Multi-Model Probability Forecast for Temperature for May-June-July 2015, Issued March 2015



IRI Multi-Model Probability Forecast for Temperature for June-July-August 2015, Issued March 2015



IRI Multi-Model Probability Forecast for Temperature for July-August-September 2015, Issued March 2015



Pronóstico MJJ/JJA/JAS:

- *Precipitaciones entre normales y superiores a las normales.
- *Temperaturas superiores a las normales.
- * Confiabilidad muy baja.

¡GRACIAS POR SU ATENCIÓN!



¿PREGUNTAS?

