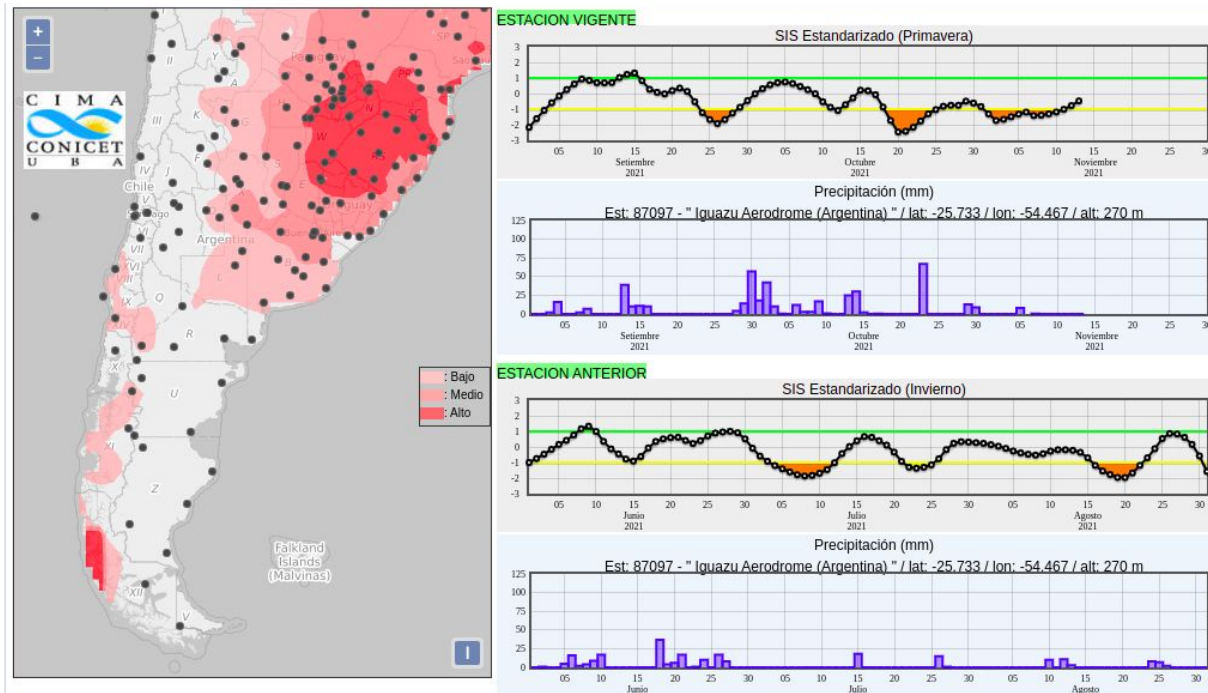


Operational seasonal forecasting at CIMA



Ramiro Saurral
CIMA (CONICET-UBA-CNRS)

Operational seasonal forecasting at CIMA

CIMA is one of the institutions participating in the South American Regional Climate Center (CRC-SAS).

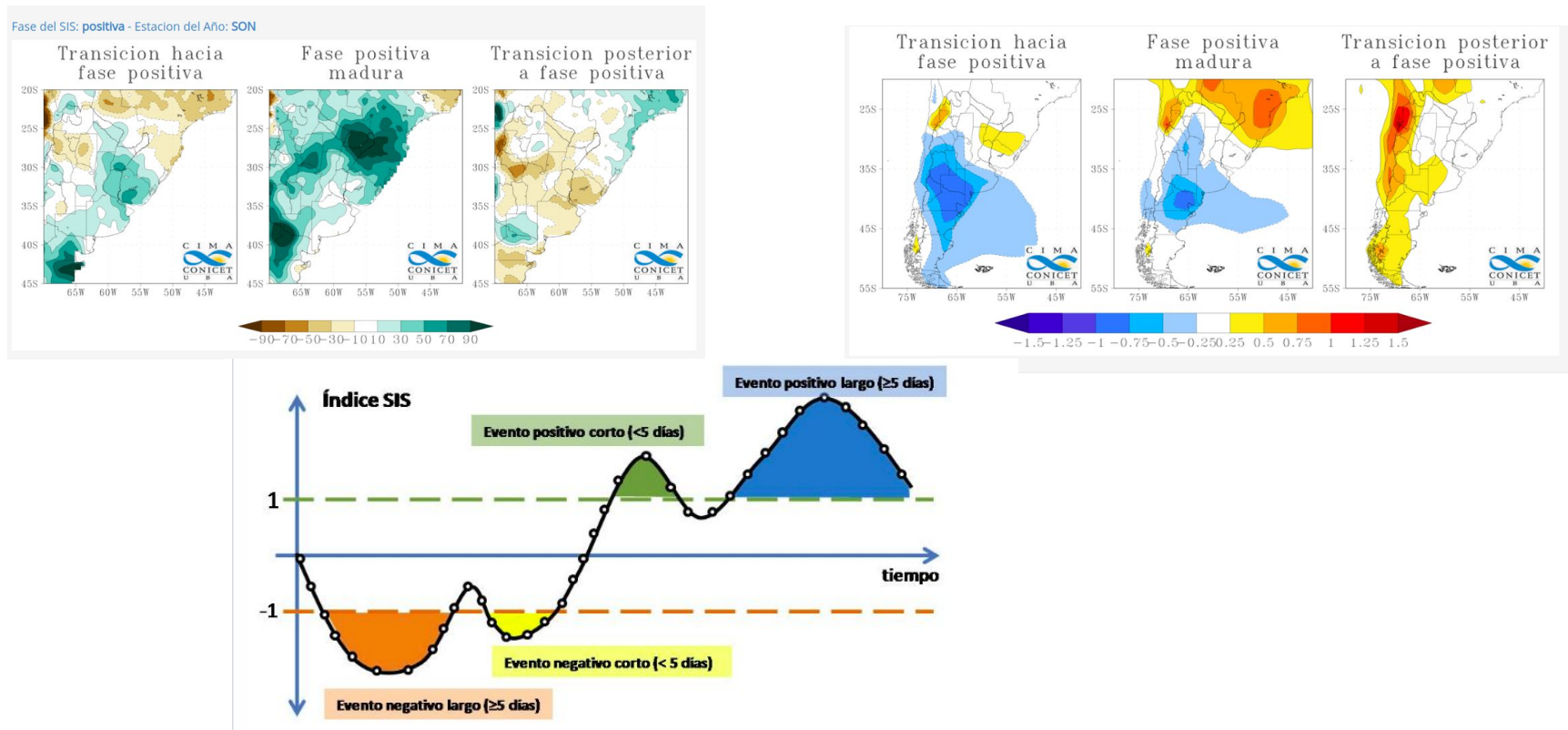
It is actively involved in the development of operational subseasonal to interannual predictions of selected atmos variables (mainly T2m and precip) in tight collaboration with the National Weather Service of Argentina and several other South American research+operational institutions from Brazil, Paraguay, Bolivia, Uruguay and Chile.



<https://www.crc-sas.org/en/>

Operational seasonal forecasting at CIMA

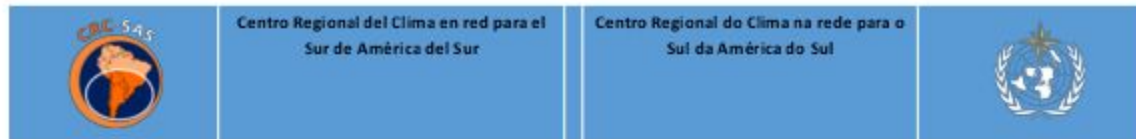
Part of the activities at CIMA in this area is the identification of predictive tools within different hindcast dataset (including CHFP and NMME)...



Alvarez et al. (2014),
doi:10.1007/s00382-013-1872-z

Operational seasonal forecasting at CIMA

In cooperation with the NWS of Argentina and several other South American institutions, a number of scientists working in this field meet around the 15th of each month to analyze the recent evolution of weather and climate features affecting the region and reach consensus on 3-month predictions of T2m and precip anomalies.



Perspectivas climáticas
Septiembre-Octubre-Noviembre 2021

Reunión virtual del CRC-SAS

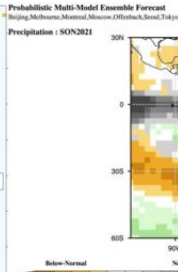
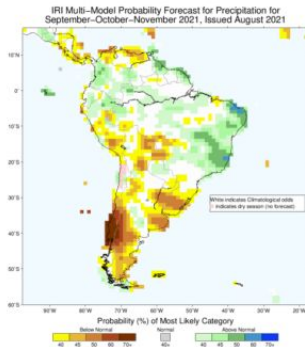
3 de septiembre de 2021

Operational seasonal forecasting at CIMA



Operational seasonal forecasting at CIMA

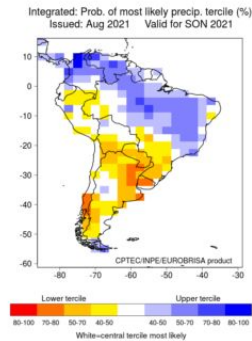
IRI



Fuente: <https://www.wmolc.org>

WMO MME

EUROBRISA

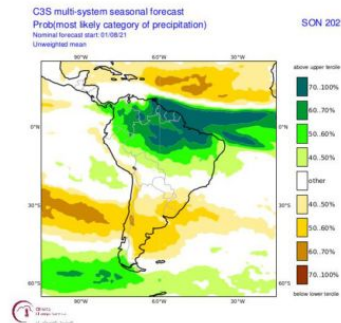


<http://eurobrisa.cptec.inpe.br/>

<https://iri.columbia.edu/our-expertise/climate/forecasts/seasonal-climate-forecasts/>

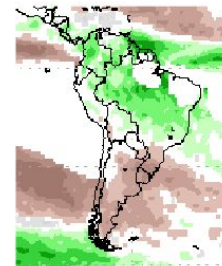
Example of prediction of precip anomalies
 (SON 2021, from IC August 2021)

Modelo Copernicus



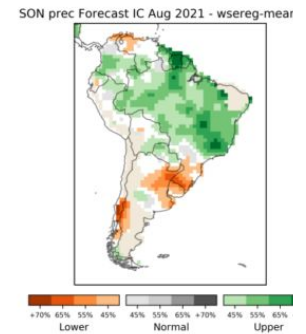
<https://climate.copernicus.eu/forecasts/seasonal/>

National Multi-Model Ensemble



<http://www.cpc.ncep.noaa.gov/products/NMME/>

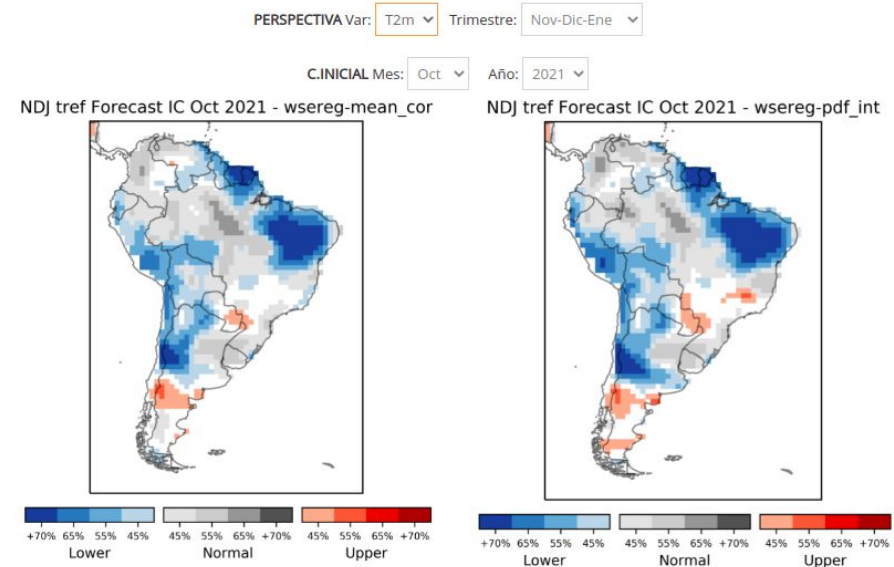
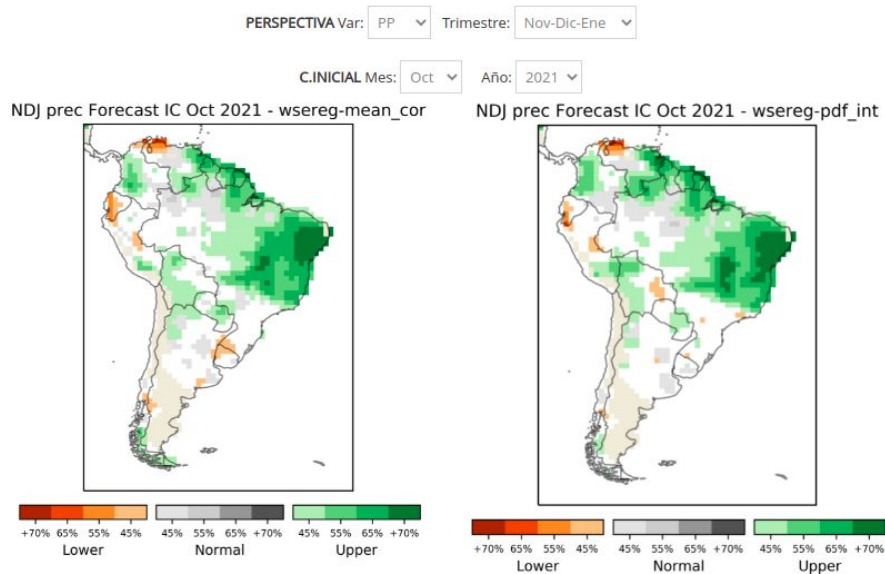
CIMA-CLIMAX



<http://climar.cima.fcen.uba.ar/Estacional.php>

Operational seasonal forecasting at CIMA

The CIMA-CLIMAX prediction is derived by applying ensemble regression to individual NMME members, and then obtaining a PDF along with a probabilistic likelihood for certain thresholds (mostly below, near or above the climatological norms for that time of the year).



Osman et al. (2021),
doi:10.1007/s00382-021-05845-2

Operational seasonal forecasting at CIMA

