

## CLIVAR/CliC/SCAR Southern Ocean Region Panel SORP-12: 29-30 June 2017

### National activities report

Country Argentina

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#### A. Recent and ongoing activities

Does your country have a national committee tasked with oversight of Southern Ocean climate science (e.g., like US CLIVAR)? If yes, please give the name of the committee.

What major activities have been carried out in the last several years or are in progress now? Contact information for the projects would be useful (e.g., Principal Investigators and Associate Investigators).

##### 1. Observational?

We are observing sea ice and icebergs through the Navy Ships and Antarctic Stations in Peninsula and Weddell Sea. Every year we give a course to observers so we can have a consistent data base of sea ice and icebergs.

We also collect meteorological observations of Navy ships in South Atlantic Ocean and we are planning to incorporate some of them in the VOS.

This information is vital for producing ice charts, in the NAVAREA VI (Image 1).

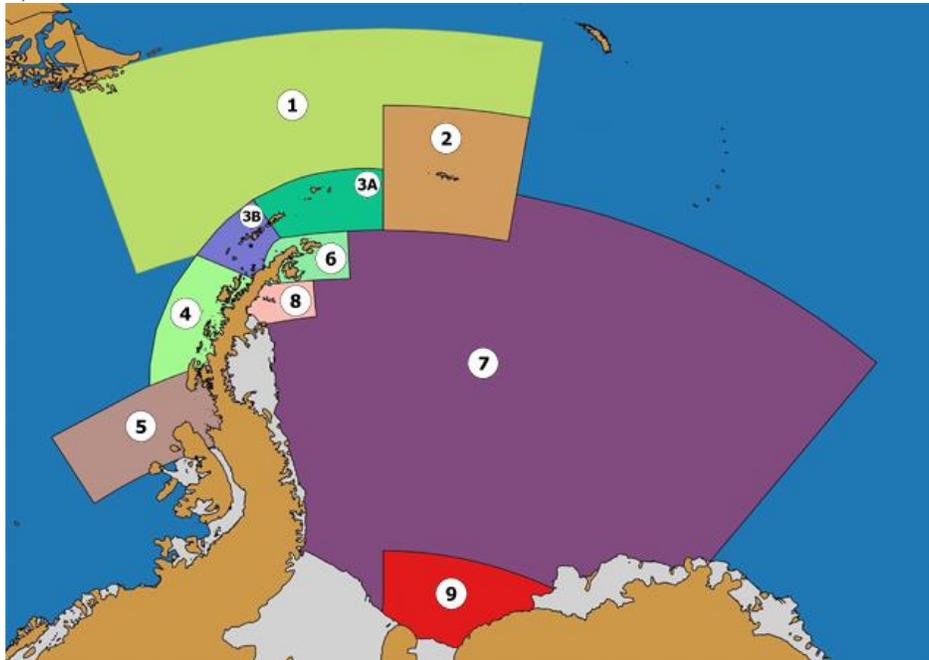
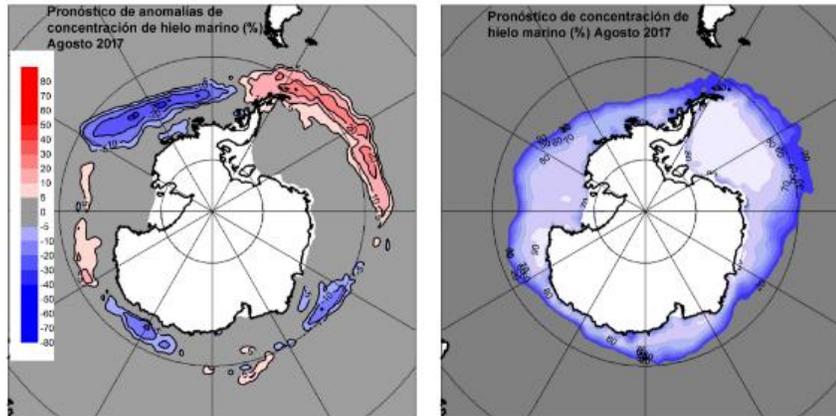


Image 1: <http://www.hidro.gov.ar/Smara/glacio/sglaciologica.asp#z1>

##### 2. Modeling?

We are running a model for sea ice concentration and anomalies of sea ice, also associated with meteorological variables. (Image 2)

## AGOSTO



\* Variables Atmosféricas (Ver)

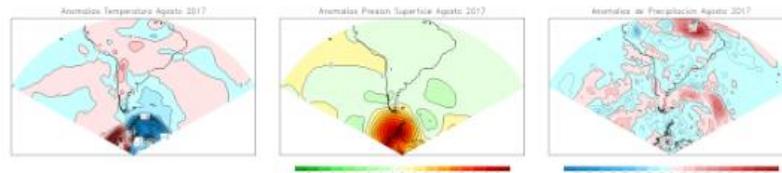


Image 2: <http://www.hidro.gob.ar/smara/sb/sb.asp>

We are also finishing the test of a new model of Iceberg Drift and Deterioration to run in the South Atlantic Ocean.

### 3. Ocean reanalysis and state estimation?

We are conducting a climatological study of South Atlantic Ocean with meteorological variables using measures from ships and buoys.

Please give a full list of references at the end of section A.

## B. Planned activities

What major activities are planned or likely to occur during the next several years? Contact information for the projects would be useful (e.g., Principal Investigators and Associate Investigators).

### 1. Observational?

Increase the amount of sea ice and meteorological observations using the Navy ships.

### 2. Modeling?

We are planning to have a sea ice model in operational scale, with weekly information.

### 3. Ocean reanalysis and state estimation?

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SORP terms of reference <http://www.clivar.org/clivar-panels/southern>

"To serve as a forum for the discussion and communication of scientific advances in the understanding of climate variability and change in the Southern Ocean. To advise CLIVAR, [CliC](#), and [SCAR](#) on progress, achievements, new opportunities and impediments in internationally-coordinated Southern Ocean research."

Specific Activities:

1. Facilitate progress in the development of tools and methods required to assess climate variability, climate change and climate predictability of the ocean-atmosphere-ice system in the Southern Ocean.
2. Identify opportunities and coordinated strategies to implement these methods, spanning observations, models, experiments, and process studies.
3. Provide scientific and technical input into international research coordination, collaborating as required with other relevant programs, including the [Southern Ocean Observing System \(SOOS\)](#).
4. Monitor and evaluate progress in Southern Ocean research, and identify gaps.
5. Enhance interaction between the meteorology, oceanography, cryosphere, geology, biogeochemistry and paleoclimate communities with an interest in the climate of the Southern Ocean.
6. Work with relevant agencies on the standardization, distribution and archiving of Southern Ocean observations.