

Science-policy action in South America: the hotspot of the Southwestern Atlantic Ocean



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The Southwestern Atlantic Ocean (SAO): a hotspot



Warming occurring at several times the average global rate of warming

Long-term increase in:

Sea surface temperature

Sea level

Onshore winds (intensity and frequency)

Extreme events

Discharge of freshwater (e.g., Rio de la Plata)

Coastal erosion

Effects on biodiversity and services:

Mass mortalities

Tropicalization

Range shifts

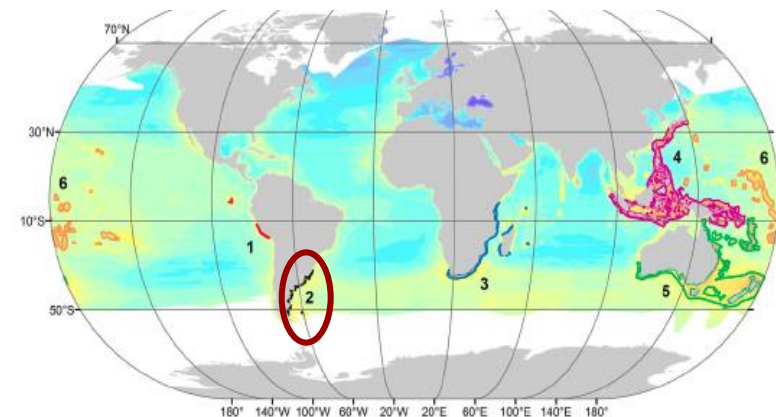
Invasive species

Red tides

Fisheries threatened

Three countries: Brazil, Uruguay and Argentina

- A biodiversity hotspot!!
- Shared fisheries in large marine ecosystems
- Small-scale fisheries and livelihoods threatened
- Climate drivers affecting vulnerability of local communities



CC adaptation in the SAO: priority action areas

Needs

Coordination and cooperation among countries

Long-term scientific programs and common policy goals

Ways to communicate science at the local, national and regional levels

Strengthening the science-policy interface

1. **Interdisciplinary** research and networks for CC assessment and adaptation
2. **Social** dimensions at the core of adaptation strategies
3. Targeted approaches for management and **conservation** of biodiversity
4. Strengthening of national adaptation plans
5. Multi-level **governance** improvements for CC adaptation
6. Building of **livelihood resilience** to CC, particularly in small-scale fisheries
7. Development of innovative technologies (**early warning systems**)
8. Establish a platform for communicating CC science: **translational science**

IAI, as an observer intergovernmental organization, is exploring synergies with Parties to support regional-scale actions in light of national priorities, and to facilitate communication of science for adaptation policies

Communicating science!!

Booklets for best fishing practices



TV and written media



Workshops and training courses in local communities and schools

Manejo responsable y co-gestión 2011

SET 2012 Experiencias en co-manejo (Atlántida)

Pesca artesanal en Uruguay (San Gregorio de Polanco - Barra del Chuy) OCT 2012

NOV 2012 Discusión sobre EEP (DINARA - FAO)
Introducción a la biología pesquera (DINARA)



Consejos de Pesca, compartiendo experiencias (Salto) MAR 2013

OCT|NOV 2013 Talleres cambio climático y pesca artesanal | educación ambiental | dinámica de playas y el Hombre (San Luis)

Talleres sobre co-manejo pesquero (San Gregorio de Polanco - Barra del Chuy) JUL|AGO 2013

