



Intergovernmental Oceanographic Commission of UNESCO

Harmful Algal Bloom Programme

Summary report



- *XVII IOC-IPHAB*
- *Paris, 18- March 2025*



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**IOC-HAB Regional
groups and networks**





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- Last in-person meeting in October 2016, during 17th ICHA in Brazil
- Periodic (bimonthly) virtual meetings
- organizing an update of information on harmful blooms in the region (such as the book *Floraciones Algales del Cono Sur*) to be published in a special issue of the journal *Marine and Fishery Sciences (MAFIS)*
- Last virtual meeting in February 27th 2025, summary report for IPHAB meeting, initial planning for 2025-2027 to publish about FANSA in HAN



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FANSA: February meeting

Members / Focal points:

BR

- Luiz MAFRA Jr.
(UFPR)

UR

CHAIR:

Ana MARTÍNEZ
(DINARA)

AR

- Nora MONTOYA
(INIDEP)

EQ

- Elsa Salazar
(INOCAR)

PE

- Sonia SANCHEZ Ramirez
(IMARPE)

CH

- Leonardo GUZMAN
(IFOP)

FANSA

- Members recognized that the lack of funding to meet in person makes the collaboration and work together more difficult
- Virtual meetings as a solution (every two months)

A review on HABs in South America (several articles by country including monitoring methods), is being prepared as a special number of MAFIS

Wishes

- Inter-calibration exercises for taxonomic identification focused on harmful algal species of regional occurrence
- Regional initiatives for toxin detection; application of remote sensing and modelling for early detection of HABs in S. America
- Encourage and support the participation of South American experts in global task teams and panels on biotoxins detection methods and regulatory limits, taxonomy and ecology of harmful phytoplankton and HAB dynamics

HAB in South America

Regional issues and potential risks

- Successive episodes (more intense) of bivalve contamination with lipophilic toxins from *Dinophysis* spp (Brazil, Uruguay, Peru).
- High diversity of toxigenic benthic dinoflagellates (Brazil) and its possible spread to the south due to ocean warming
- whale and seabird mortality associated with *Alexandrium* (Argentina)
- Massive fish kills by *Pseudochattonella* and *Karenia* spp (Chile). But also blooms associated to *Alexandrium*, *Pseudo-nitzschia*, *Heterosigma*, *Protoceratium*, *Chaetoceros*, *Leptocylindrus* (Chile, Uruguay)
- Northward shift in *Alexandrium* blooms (Argentina, Chile, Peru)



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All members expressed their contentment and enthusiasm with the continuity of the IOC-FANSA group and wished to express their gratitude to the IOC IPHAB for the encouragement and support.

*THANK
YOU!*