

What is POGO?

Created in 1999, POGO is an international consortium of major oceanographic institutes, represented by their Directors.

POGO's goal: World-wide cooperation for a sustainable, state-of-the-art global ocean observing system that serves the needs of science and society.



POGO Strategy launched in 2021 – available in 5 languages:



عربي English Español Français Português





English Français





The 3 Pillars of POGO







International Quiet Ocean Experiment outputs

- Inventory of standards, guidelines & literature
- Ocean Sound EOV Implementation Plan (900 downloads)
- Hydrophone metadatabase and map of locations
- Acoustic data portal
- Development of low-cost, open-source hydrophones (underway, with POGO funding)
- Open-access publication of textbook on "Exploring animal behaviour through sound" accessed >250,000 times

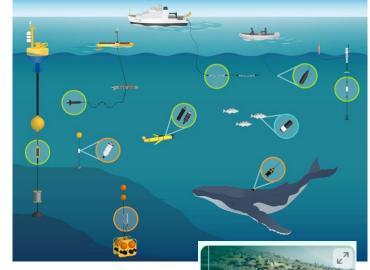
Passive Acoustic Monitoring:

- Climate: extent and breakup of sea ice, extreme weather events (storm, hurricanes); frequency and intensity of wind, waves and rainfall
- Biodiversity: distribution & behaviour of soundproducing species; forecasting, monitoring, and mitigating impacts of human activities on wildlife
- Threats: detecting nuclear explosions, illegal/ threatening vessels, human activities in protected areas, and underwater earthquakes (tsunamis alert)

Ocean Sound Observations Reported to IQOE (n=103,803)

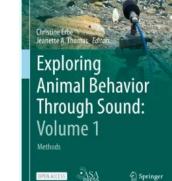
27 September 2024

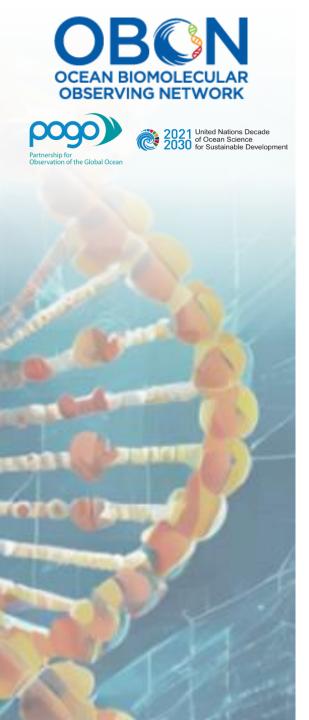






https://iqoe.org/





Ocean Biomolecular Observing Network

Vision: To accelerate informed decision-making to restore the health of our ocean using the universal signatures of life on Earth: biomolecules.

- 1. Build a coastal-to-open ocean multiomics biodiversity observing system; develop autonomous sampling and analysis capability; promote methods/technique development
- 2. Enhance marine 'omics' data systems and enhance ecosystem models by adding biomolecular components
- 3. Partner with marine conservation and management specialists, policymakers, private sector and to address sustainable development
- 4. Develop and transfer capacity through training programs combined with funded equipment programs supported by development/aid agencies and philanthropy

Current and future directions

- Working Groups on methodology, reference libraries, capacity development, technology, data synthesis
- Developing a regional network in the Western Pacific
- Workshop on eDNA for fisheries management
- Shipboard training in Atlantic and Indian Oceans (AMT, OceanX-OceanQuest Around Africa Expedition)







https://obon-ocean.org/



Capacity development

99 Countries

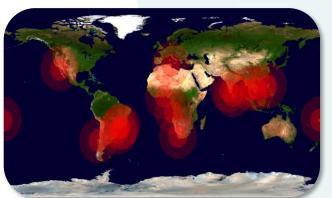
>1400 Training grants

Visits to advanced oceanographic institutes

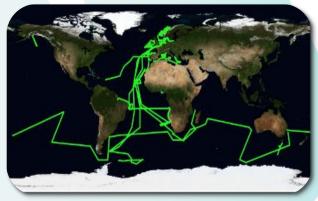




Regional trainings in developing countries



Shipboard training





Training opportunities in developed countries

NF-POGO Centre of Excellence at OFI

















Each year, ten young scientists from ten, mostly developing, countries, study for ten months in an intensive programme on ocean observations. Phase 1: BIOS, Bermuda; Phases 2-3: AWI, Germany; Phase 4 (current): OFI, Canada.

POGO-SCOR Visiting Fellowships







Scientists from developing countries spend up to 3 months receiving one-to-one training and supervision in ocean observations at a major oceanographic institution.

Regional training opportunities



NF-POGO Regional Training Programme on Sustainable Marine Resource Management

(Bangladesh)





Partnership for

POGO/CLIVAR IORP Regional Training Workshop on Observing the Coastal and Marginal Seas in the WIO



POGO-ITCOocean International Training on Ocean Observations to Societal

Applications (India)

Training at sea

Pooling infrastructure, resources and expertise to provide practical hands-on, ship-board technical skills whilst building capacity in oceanographic observations

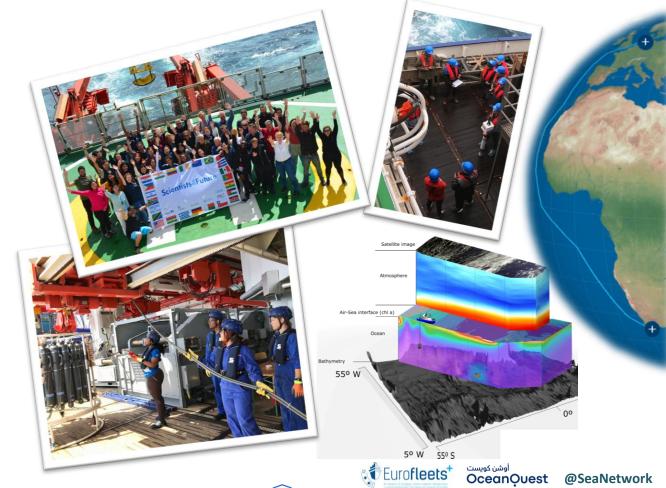


One-on-one training





Training-dedicated cruises



Partners



































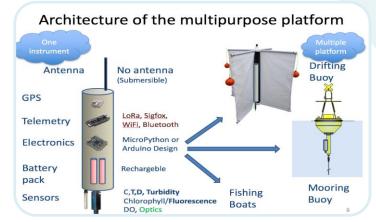


Low-cost technology development



- User-friendly, low cost and easily deployable instrumentation
- Drifter and moored platform.











Analysis











Ocean Observing Case Studies

- Written by a freelance science writer, in collaboration with POGO member institutions, illustrating the socioeconomic benefits of ocean observing
- 10 case studies in total
 - Climate Critical Observing (3)
 - Water quality (5)
 - Geohazards (2)
- Future plans: Considering targeted topics – such as biomolecular observations, ocean sound, etc https://pogo-ocean.org/pogo-member-case-studies/





Citizen science - COLLECT



- Meeting on plastic pollution/training on sampling protocols
- October-November 2021 (wet season/Autumn)
- March-April 2022 (dry season/Spring)
- ~10 groups of 5 6 students / sampling event
- Questionnaires prior and after participating in the activity
- Working languages: English, French, Portuguese and Spanish

Members involved:























Policy and international engagement

- POGO accredited by UNFCCC and CBD
- We have regularly attended Climate COPs since 2017 and (co)-organised exhibits and side-events on ocean obs for climate
- In 2024, attended Biodiversity COP16 where we had an exhibition stand highlighting the potential of eDNA for biodiversity monitoring
- Statements and declarations issued at major events to highlight the critical need for sustained, global ocean observations, particularly for biodiversity & ecology
- POGO a UN Decade Implementing Partner.





How to get involved

Become a **POGO Member** Full or Associate membership categories

Attend annual meetings (with opportunity to host)

Propose collaborative ocean observing initiatives, and more...

Participate in **OBON**

Propose a new project for UN Decade endorsement under OBON

Put your name forward to join the Scientific Advisory Committee

Visit obon-ocean.org

Become an Ocean Training Partner

POGO can fund a Fellow to make use of spare berths

Or provide funding for training cruises on 'empty legs'

Visit oceantrainingpartnership.org

Apply for POGO training

See current trainings at https://pogoocean.org/currenttraining-announcements/

Follow NANO for opportunities (jobs, funding, training, conferences...)

Or follow us on













Contact



POGO Secretariat

- Plymouth Marine Laboratory, UK
- Centre of Marine Sciences of the Algarve, Portugal

Western Pacific Regional Node

Ocean Decade Collaboration Center, Qingdao, China.



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