



Partnership for Observation  
of the Global Oceans



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Building links world wide among oceanographic institutions to  
promote long-term co-operation in comprehensive global-  
ocean observations



## Partnership for Observation of the Global Oceans

The partnership exists to:

- Promote observations
- Improve scientific knowledge
- Interpret scientific results to policy makers
- Enhance public awareness of oceanic issues
- Provide training and technology transfer
- 38 Member institutes from 21 countries

**POGO's Perspective: Global in scope**

**POGO's Goal: Global in participation**

**Enhancement of involvement of developing countries is part of the overall strategy.**



# POGO-SCOR Fellowship Programme

(Initially: POGO-IOC-SCOR Fellowship Programme)



Initiated in 2001; Supports visits to oceanographic laboratories for training. Details on POGO Web Site ([www.ocean-partners.org/](http://www.ocean-partners.org/))

Funding support from SCOR (and from IOC, until 2005)

## Fellowships awarded:

2001: 13,	2002: 13,	2003: 09,	2004: 12,	2005: 09,
2006: 09,	2007: 13,	2008: 15,	2009: 12,	2010: 13

Programme in high demand: in some years, 8 times more applications than we have funds for. Feedback has been uniformly enthusiastic.

EAMNet project (led by PML, UK) has initiated fellowships along these lines for African countries. Three-Year project, starting in 2010

# POGO-AMT Fellowship Programme

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Began in 2008. Supports participation of one trainee in the Atlantic Meridional Transect (AMT) cruises from the UK to Antarctica. Details on POGO Web Site.

Initiated jointly with SCOR; now being continued as a POGO Programme

## Fellowships awarded:

2008: Mario Vera (Uruguay)

2009: Charissa Ferrera (Philippines)

2010: selection in progress

Programme provides for participation in cruise preparation (one month); participation in cruise itself; and participation in data analysis and interpretation (up to 2 months).

# Universidad de Concepción Austral Summer Institute



Austral Summer Institute is an initiative of the Universidad de Concepción, with international collaboration and funding support from various sources (including a UNESCO Chair).



- Organized as a series of short, intensive courses on various topics in ocean sciences.
- Invited lecturers of international repute from around the world.
- The program was designed primarily for the benefit of students from Chile.



POGO support allows participation of students from neighbouring countries (about 6-8 students each year). Modest contribution, high impact.

# University of Cape Town: POGO Bursary

- Started in 2008.
- Provides bursary for an African student (from outside South Africa) to undertake graduate programme at the University of Cape Town.
- Seen as a vehicle for African countries to benefit from oceanographic expertise in South Africa and to develop University of Cape Town as a regional centre of excellence in oceanography.

# Nippon Foundation – POGO Visiting Professorship Programme 2004 - 2007

Provided unique opportunity for capacity building through visits of eminent scientists to developing countries for training and building facilities.

- 2004: Prof. Trevor Platt (to NIO-Kochi, India)  
Prof. Motoyasu Miyata (to USP, Fiji)
- 2005: Dr. Charitha Pattiaratchi (Australia) to NARA, Sri Lanka  
Dr. Robert Frouin (USA) to INPE, Brazil
- 2006: Dr. Satsuki Matsumura (Japan) to IO, Vietnam  
Prof. Vladimir G. Koutitonsky (Canada) to INSTM, Tunisia

Now continued on a more modest scale as the POGO Visiting Professorship Programme.

# Nippon Foundation – POGO Centre of Excellence - 2007

- Provides unique opportunity for training for nominal one year at the Bermuda Institute of Ocean Sciences.
- Training programme includes specialised modules of 2-3 weeks each (including guest lecturers from around the world; on-board training on research vessel; project work).
- Some 10 candidates are selected each year, primarily from developing countries, but also from developed countries (over 110 applications in 2010).
- Networking is a priority for the programme.
- Alumni Meeting is being planned.



# Nippon Foundation – POGO Regional Training Programme - 2007

Part of the activities of the NF-POGO  
Centre of Excellence in Bermuda.

Uses previous trainees as nucleus for  
regional programme

Also a vehicle for identifying suitable  
candidates for other capacity-building  
initiatives



Each year, a regional training course is organised:

In 2009-2010: Brazil (host: Milton Kampel)

In 2010-2011: South Africa (host: Stewart Bernard) (planned)

In 2011-2012: India (host: Srinivas Kumar) (planned)

# POGO Visiting Professorship Programme



Initiated in 2009, modest successor to NF-POGO Visiting Professorship Programme; formalises earlier, modest, ad hoc initiatives along these lines

2009: Prof. Stephen Hawkins (University of Bangor, UK)

To: Argentina  
Host: Maria Gabriela Palomo, Museo Argentino de Ciencias Naturales "Bernardino Rivadavia"  
Topic: Understanding climate driven change in marine biodiversity and ecosystems: observations, modelling and experiments

2010: Prof. Lisa Levin (Scripps Institution of Oceanography, USA)

To: Namibia and neighbouring countries  
Host: Anna Bronwen Currie, Ministry of Fisheries and Marine Resources  
Topic: Understanding biodiversity of oxygen minimum zone and methane seep environments

Prof. David Chuckley (Scripps Institution of Oceanography, USA)

To: Namibia and neighbouring countries  
Host: Anya Kreiner, National Information and Research Center  
Topic: Emerging Technologies for Ocean Observations: CUFES (Continuous Underway Fish Egg Sampler) and LOPC (Laser Optical Plankton Counter)

Provides travel support, honorarium, training costs (total not to exceed £5,000)

POGO also undertakes capacity building in a broader sense...

*Partnership for Observation of the Global Oceans*



► The São Paulo Declaration ►  
2001

2001  
► The São Paulo Declaration ►

“The Participants of POGO call upon the world leaders of government, industry, science, and education to use their influence and resources, within their own countries and through relations with others, to devote necessary attention to extending ocean observing systems in the Southern Hemisphere, as a minimum requirement towards implementing an integrated strategy for observing the global oceans.”

— The São Paulo Declaration —  
2001

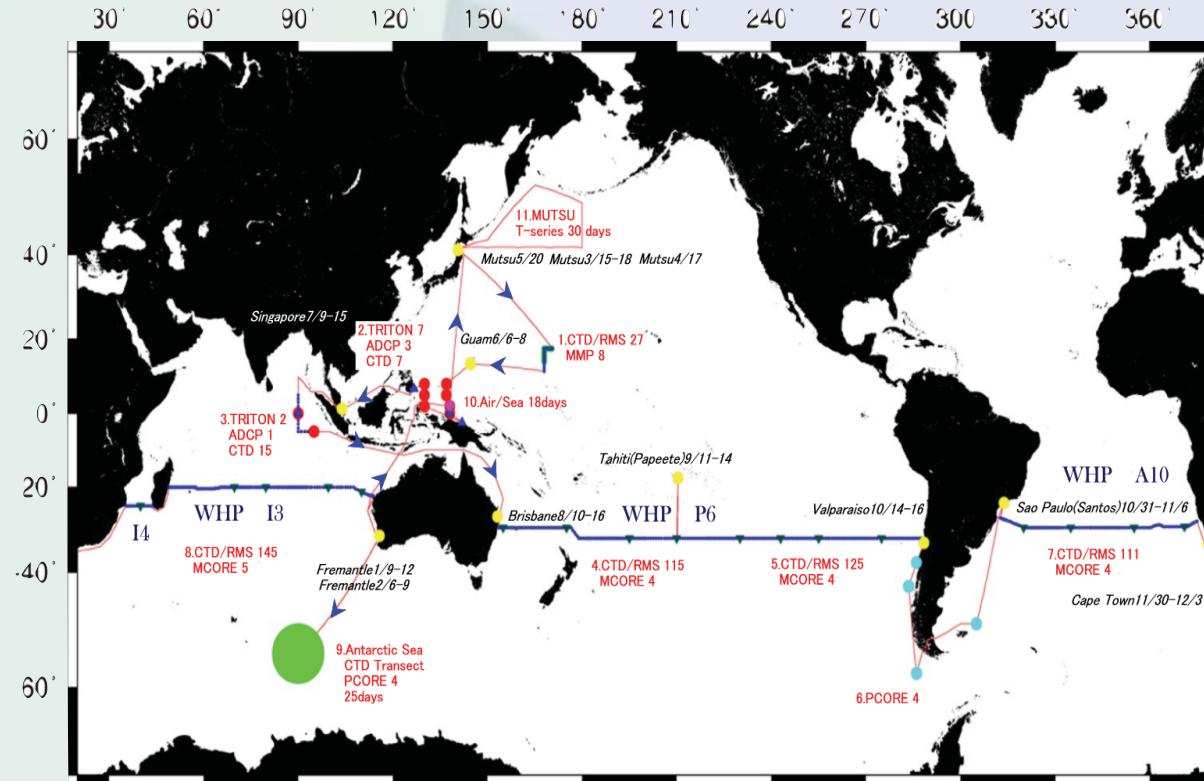
used by:

- University of Concepción (Chile) to justify why Chile was uniquely positioned to make valuable and unique contribution to the field
- JAMSTEC (Japan) to justify a circumpolar cruise of their research vessel Mirai in the Southern Hemisphere
- NIOZ (the Netherlands) to justify a project for three long-term time-series stations (two in the Indian Ocean)
- AOML (USA) to initiate a new XBT line from Cape Town to Buenos Aires

# JAMSTEC Response to São Paulo Declaration



*Operation Magellan-J 2003/2004 14.15 case*



Around the ‘world’: From Brisbane (16 Aug 2003) to Freemantle (9 Jan 2004)  
Kerguelen leg: From Freemantle (13 Jan 2004) to Freemantle (6 Feb 2004)

# POGO-IOC-IOCCG Scholarship for Training on JAMSTEC cruise BEAGLE on Mirai in Southern Hemisphere



**JAMSTEC**

JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY



Trained 18 oceanographers from S.America, Africa and Asia

Subject: Basic Bio-optical measurements; also geochemistry, geology and physical oceanography

# POGO and GEO



- POGO is a participating Organisation in Group on Earth Observations (GEO)
- Contributes to various GEO activities related to ocean observations, in particular towards capacity building

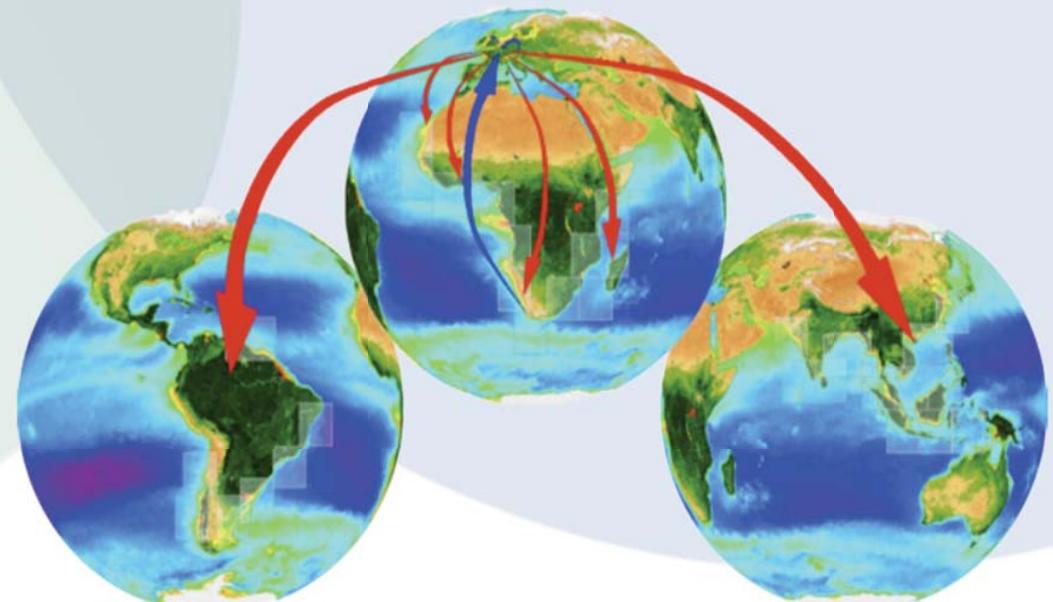


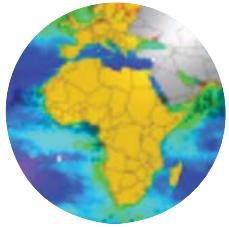
# ChloroGIN

- ChloroGIN: Chlorophyll Globally Integrated Network
- Conceived during IOC/GOOS/POGO/GEO sponsored workshop in Plymouth, UK (Sept 2006)
- Addresses GEO task EC-06-07: “Build upon existing initiatives (e.g. ANTARES in South America) to develop a global network of organization-networks for ecosystems, & coordinate activities to strengthen observing capacity in developing countries”
- ChloroGIN aims to promote in situ measurement of chlorophyll in combination with satellite-derived estimates & associated products
- ChloroGIN is conceived as a network of networks, facilitating access to relevant data for users

# DevCoCast

- GEONETCast applications for and by Developing Countries
- The project aims to involve developing countries in the GEONETCast initiative and is setting up a strong user and provider base
- Products:
  - Near-real time & archived ocean colour & SST products, including:
    - standard Case-1 & Case-2 MODIS & MERIS 1 km OC & SST products;
    - 9 km monthly primary productivity, Chl & SST data;
    - specialised products, i.e. HAB descriptors & frontal maps.
- Providers for Africa:
  - Plymouth Marine Laboratory
  - Joint Research Centre
  - MRSU
  - LERG (Senegal)
  - University of Ghana
  - NatMIRC (Namibia)
  - IMS (Tanzania)





# EAMNet (Europe-Africa Marine Network)

- EAMNet is an EC “Coordination and Support Action”
- EAMNet is in part based on ChloroGIN that links regional EO centres of excellence in developing and developed countries

## Objectives:

- Construct a network linking EO information providers, user networks and centres of excellence in Europe and Africa towards sustainable development in Africa
- Support capacity building and maintenance in Africa
- Improve exploitation of EO data for coastal and oceanic monitoring towards an Africa-wide observation system (GOOS-Africa)
- Provide interface between European GMES-related services and R&D projects and African initiatives with emerging GMES-Africa initiative
- Contribute to implementation of *Action Plan* for GMES and Africa Partnership resulting from Lisbon Process on “GMES and Africa”

# POGO Strategic Considerations

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- Target capacity building to fill identified gaps in the ocean observing system;
- Target capacity building towards the service of societal needs;
- Identify centres in developing countries that have shown drive and initiative in providing training and education at regional levels, and promote their activities;
- Encourage north-south partnerships and initiatives where both the trainer and the trainee benefit from the effort;
- Encourage south-south partnerships to disseminate regional expertise;

# POGO Strategic Considerations

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- Facilitate the trainee to become a trainer in the region, so that the knowledge can reach a wider population; and
- Focus the capacity building efforts on those institutes and centres that have a long-term vision to build on, and benefit from, capacity building efforts; expect them to make some contribution to the effort, within reason
- Encourage the developing countries to take the lead in deciding on the type of capacity building that best serve their needs, and work with them to realise their goals
- Make a long-term commitment.

# The Office Bearers of POGO

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Chairman:

Dr. Kiyoshi Suyehiro (Japan)

Chairman Elect:

Dr. Peter Herzog (Germany)

Past Chairman:

Prof. Tony Haymet (USA)

Committee members:

Dr. Robert Nigmatulin (Russia)

Dr. Jung-Keuk Kang (Korea)

Secretariat:

Dr. Trevor Platt (Exec. Director)

Dr. Shubha Sathyendranath (Dep. Director)

Dr. Sophie Seeyave (Scientific Coordinator)



