



Partnership for
Observation of the Global Ocean



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POGO-21

Plenary Meeting Report

First Institute of Oceanography (FIO), Ministry of Natural
Resources

and

Qingdao Pilot Laboratory for Marine Science and Technology
(QNLN)

Qingdao, China
19-22 January 2020

Agenda

21st POGO Annual Meeting (POGO-21) and Side Meetings

Venue: First Institute of Oceanography, Qingdao, China

Week at a glance

	Sun 19 Jan	Mon 20 Jan	Tues 21 Jan	Wed 22 Jan
	Side Meetings and reception	POGO-21 Open Meeting <i>(Venue: Meeting room 601)</i>	POGO-21 Open Meeting <i>(Venue: Meeting room 601)</i>	POGO AGM <i>(members only)</i> & tour
Morning	POGO Finance Committee Meeting <i>(Venue: Meeting room 504)</i>	Plenary session	Plenary session	Closed session <i>(Venue: Meeting room 601)</i>
Lunch	FC and BoT lunch <i>(Venue Hyatt Regency Hotel)</i>	Lunch for delegates provided on-site (FIO Canteen)	Lunch for delegates provided on-site (FIO Canteen)	Lunch for AGM delegates provided on-site (FIO Canteen)
Afternoon	Meeting of POGO Board of Trustees <i>(Venue: Meeting room 504)</i>	Plenary session	Plenary session	Closed session <i>(Venue: Meeting room 601)</i>
		Poster session	Poster session	
		Plenary session	Plenary session	16:15 Tour at FIO 16:15 – 19:00 Board of Trustees Meeting <i>(Venue: Meeting room 504)</i>
Evening	19:00 – 21:00 Ice-breaker: All delegates <i>(Venue: Haiqing Hotel)</i>	19:00 – 21:30 Conference Dinner hosted by FIO <i>(Venue: Sophia International Hotel)</i>	19:00 – 21:30 Dinner hosted by QNLM for all delegates <i>(Venue: Blue Horizon Hotel)</i>	19:30 Board dinner

POGO-21 Meeting Summary

Open Meeting

20th – 21st January 2020

The 21st POGO Annual Meeting (POGO-21) was held at the First Institute of Oceanography (FIO), Ministry of Natural Resources (MNR), in Qingdao, China, from 20-22 January 2020. The meeting was co-hosted by FIO and the Qingdao National Laboratory for Marine Science and Technology (QNLN). This was the second POGO Meeting held in China in POGO's 20-year history, the first one hosted by the Institute of Oceanology, Chinese Academy of Sciences, in January 2007.

The participants were welcomed by Tiegang Li, General Director of FIO, followed by remarks from the Chair of POGO, Nick Owens. Opening speeches were given by Zhi Chen, Deputy Director of Marine Forecasting and Monitoring Department, MNR, and Shijie Xu, Senior Advisor of Chinese Arctic and Antarctic Administration.

The POGO-21 Meeting was extremely well attended, bringing together 91 delegates from 22 countries – a record for POGO Meetings to date.

The first session of the meeting was an impressive showcase of oceanography and ocean observing in Qingdao, featuring a number of examples of the world-class research facilities, ocean observing programmes and scientific outputs of the various institutions located in Qingdao. This session was complemented by a session on Regional Initiatives, including presentations by the Second Institute of Oceanography, MNR, the South China Sea Institute of Oceanology, Chinese Academy of Sciences, QNLN, and the Japan Agency for Marine-Earth Science and Technology (JAMSTEC).

Presentations by partner organisations provided updates on Climate and Ocean - Variability, Predictability and Change (CLIVAR), the Scientific Committee on Oceanic Research (SCOR), the International Quiet Ocean Experiment (IQOE), and Sustaining Arctic Observing Networks (SAON).

Sessions focusing on POGO's current priorities included Coastal Observations, the GOOS 2030 Strategy and Outcomes of OceanObs'19, and the UN Decade of Ocean Science for Sustainable Development. Other sessions included updates on POGO activities, and presentations by new POGO members. This year, all members were also invited to make brief interventions on specific new projects or other new developments at their institutions. The detailed agenda and participants' list can be found on the POGO website.

POGO was delighted to welcome a host of new members who joined since the last POGO Meeting: the Norwegian Polar Institute (NPI), Euro-Mediterranean Center on Climate Change (CMCC, Italy), University of Ghana's Department of Marine and Fisheries Sciences, the Centre Universitaire de Recherche et d'Application en Télédétection (CURAT, Ivory Coast), the Nigerian Institute for Oceanography and Marine Research and the Oceans Institute from the University of Western Australia.

These new members represent an addition of 3 new African countries to POGO's membership, as a result of POGO's recent efforts to increase its membership in Africa, and in particular the previous meeting having been held in Cabo Verde. During POGO-21, several Chinese institutions were present and expressed an interest in joining POGO. One membership application has already been received and accepted by the POGO Board of Trustees, and we hope that several more will follow.

Closing the meeting, Nick Owens thanked the trustees who were stepping down from the Board for all their contributions and commitments to the leadership of POGO: Karen Wiltshire (Deputy Director of the Alfred Wegener Institute in Germany) who served POGO during six years, in turn, as Executive Committee member, Chair and then trustee; and Peter Herzig (Director of GEOMAR Helmholtz Centre for Ocean Research, Kiel, in Germany). Finally, he thanked the hosts for their wonderful hospitality and excellent organisation of the meeting.

The participants' list can be found in Appendix 2.

POGO Annual General Meeting

22nd January 2020

The plenary Meeting was followed by the third Annual General Meeting (AGM) of the POGO Charitable Incorporate Organisation. The one-day meeting was attended by 22 members to discuss POGO business, projects, collaborations and future activities. POGO business included the selection of the next POGO meeting venue, approval of the 2018-2019 accounts and Trustees' Annual Report, amendments to POGO's constitution and the election of trustees and chair. Two new trustees were elected by acclamation to POGO's Board: Kim Juniper (ONC, Canada), and Satheesh Shenoi (INCOIS, India). Subsequently a third trustee was appointed by the Board, Edem Mahu (Department of Marine and Fisheries Sciences, University of Ghana). Henk Brinkhuis (NIOZ, Netherlands) was elected for a second term from Jan 2020 to Jan 2022 and Nick Owens (SAMS, UK) was elected to serve a second term as Chair from Jan 2021 to Jan 2023. The POGO Board and Secretariat would like to extend a warm welcome to the new trustees and look forward to working together over the next two years.

The members discussed POGO's projects for the coming year, including a possible new proposal to the Lounsbery Foundation, contributions to the UN Decade of Ocean Science for Sustainable Development, the "Open Access Marine Observation Devices" (OpenMODs) project, the POGO/Blue Planet "Oceanscape" portal and the continuation of collaborations with GOOS (e.g. members' ocean observing systems survey, follow-up to Ocean Obs'19 and the implementation of the Acoustic EOVS). The minutes of the 3rd AGM have been drafted separately and circulated to the members.



POGO-21 delegates at the First Institute of Oceanography in Qingdao, China. Photo Credit: FIO.

Appendix 1. Agenda

Monday 20th January

Venue: Meeting room 601

8:15 Buses from Hyatt Regency & Sophia International Hotels to FIO

8:15 – 9:00 **Registration**

9:00 – 9:30 **Opening session (Chair: Tiegang Li)**

- Host welcome: Tiegang Li
- Remarks from the POGO Chair
- Opening speeches by Zhi Chen, Deputy Director of Marine Forecasting and Monitoring Department, MNR
- Opening speeches by Shijie Xu, Senior Advisor of Chinese Arctic and Antarctic Administration
- Closure of formal opening session

9:30 – 9:35 **Meeting logistics (Hosts and Secretariat)**

9:35 – 11:00 **Showcase of oceanography and ocean observing in Qingdao (Chair: Tiegang Li)**

9:35 Ocean and Climate Models Development at FIO, China: *Fangli Qiao*

10:00 Introduction to the Scientific Observing Network of CAS (CASSON): *Fan Wang*

10:20 Recent activities of the Tropical Indian Ocean Observation on Marine and Climate Variability in FIO: *Lin Liu*

10:40 Review and Proceeding of FIO on Polar Climate and Deep-Sea Process: Expeditions and Researches: *Yanguang Liu*

11:00 – 11:30 **Group photo and Coffee break**

11:30 – 13:00 **Updates on POGO activities (Chair: Edgar Pavia)**

11:30 Highlights: *Nick Owens*

11:45 Progress Report: *Sophie Seeyave/Lilian Krug*

12:10 Update on NANO Global Projects: *Adriana Gonzalez, Kirill Kivva*

12:30 NF-POGO Centre of Excellence: *Peter Lemke*

12:45 Report on POGO Biological Observations WG: *Margaret Leinen*

13:00 – 14:00 **Lunch**

Venue: FIO Canteen

14:00 – 15:20 **Introduction of new members (Chair: Karen Wiltshire)**

14:00 Instituto de Investigaciones Marinas y Costeras (INVEMAR), Colombia: *Francisco Arias*

14:10 University of Algarve, Portugal: *Lilian Krug*

14:20 Norwegian Polar Institute: *Kim Holmén*

14:30 Euro-Mediterranean Center on Climate Change (CMCC), Italy: *Marco Marcelli*

14:40 University of Ghana Department of Marine and Fisheries Sciences: *Edem Mahu*

14:50 Centre Universitaire de Recherche et d'Application en Télédétection, Ivory Coast: *Brice Mobio*

15:00 Benin Consortium (IRHOB/ICMPA): *Zacharie Sohou*

15:10 Oceans Institute, University of Western Australia: *Charitha Pattiarachi*

15:20 Nigerian Institute for Oceanography and Marine Research: *Akintoye Akinnigbabe*

15:30 Ocean Networks Canada (ONC): *Kim Juniper*

15:40– 16:10 Poster Session Postgraduate Students and NANO alumni & Coffee break

16:10 – 16:40 Introduction of new/emerging initiatives by members (slides to be provided in background materials)

16:40 – 17:30 Closed session (*POGO members only*):

- Audited financial statements for 2018 (Canadian + UK) and partial statement for FY 2019-20
- Discussion of dues for 2021 and 2022

19:00 – 21:30 Conference Dinner

Venue: Sophia International Hotel

Tuesday 21st January

Venue: Meeting room 601

8:30 Buses from Hyatt Regency & Sophia International Hotels to FIO

09:00 – 10:00 Partner organisations and projects (Chair: Albert Fischer)

9:00 Climate and Ocean -Variability, Predictability and Change (CLIVAR): *Jose Santos*

9:15 Scientific Committee on Oceanic Research (SCOR): *Ed Urban (remote)*

9:30 International Quiet Ocean Experiment (IQOE): *Ed Urban (remote)*

9:45 Sustaining Arctic Observing Networks (SAON): *Sandy Starkweather (remote)*

10:00 – 11:00 Regional initiatives (Chair: Gongke Tan)

10:00 Second Institute of Oceanography: *Cai Fei*

10:15 South China Sea Institute: *Du Yan*

10:30 JAMSTEC's microplastics research and collaboration in yacht race in 2020 Tokyo Olympics: *Hide Sakaguchi*

10:45 Outcomes of Global Transparent Ocean Community Workshop hosted by QNLM: *Zhaohui Chen*

11:00 – 11:30 Coffee break

11:30 – 13:00 Session: Coastal Observations (Co-Chairs: Tony Knap & Gilles Lericolais)

11:30 European Coastal Observing –JERICO projects: *Patrick Farcy (remote)*

11:45 Chinese Coastal Observing System: *Peng Wei*

12:00 The “Ocean of Things” for Coastal Observatories: *Marco Marcelli*

12:15 EMODnet Partnership for China and Europe - Strengthening international ocean data through the EU's ocean diplomacy with China: *Jan-Bart Calewaert (remote)*

12:30 Discussion

13:00 - 14:00 Lunch

Venue: FIO Canteen

14:00 – 15:15 Session: GOOS 2030 Strategy, OceanObs'19 outcomes and planning for the next decade of ocean observing (Chair: Nick Owens)

- 14:00 GOOS 2030 Strategy: *Albert Fischer*
14:15 Outcomes of OceanObs'19: *Martin Visbeck*
14:30 New EU project EuroSea: *Francisco Arias*
14:45 Discussion

15:15 – 15:45 Poster Session Postgraduate Students and NANO alumni & Coffee break

15:45 – 17:15 Session: the UN Decade of Ocean Science for Sustainable Development (Chair: Margaret Leinen)

- 15:45 Overview, current status and future plans for the Decade: *Martin Visbeck*
16:00 Short interventions by POGO members on possible POGO projects as contributions to the Decade
- *Francisco Arias*
 - *Eduardo Balguerías*
 - *Kim Juniper*
 - *KIOST*

16:30 General discussion

17:15 – 17:30 Plenary Meeting Closure (Nick Owens)

19:00 – 21:30 Dinner for all delegates
Venue: Blue Horizon Hotel

Appendix 2. Participants' list

Organisation	Position	Country	Surname	First name
Members				
Institute for Marine and Antarctic Studies (AIMS)	Executive Director	Australia	Bailey	Terry
The University of Western Australia	Professor	Australia	Pattiaratchi	Charitha
Commonwealth Scientific and Industrial Research Organisation (CSIRO)	Principal Research Scientist	Australia	Evans	Karen
Vlaams Instituut voor de Zee (VLIZ)	General Director	Belgium	Mees	Jan
Institut de Recherches Halieutiques et Océanologiques du Bénin (IRHOB)	Lecturer	Benin	Sohou	Zacharie
Ocean Networks Canada (ONC)	Chief Scientist	Canada	Juniper	Kim
First Institute of Oceanography (FIO)	Director General	China	Li	Tiegang
First Institute of Oceanography (FIO)	Deputy Director	China	Qiao	Fangli
First Institute of Oceanography (FIO)	Director of International Cooperation Division	China	Yang	Yafeng
First Institute of Oceanography (FIO)	Deputy Director of International Cooperation Division	China	Zheng	Wei
First Institute of Oceanography (FIO)	Dr	China	Shu	Qi
First Institute of Oceanography (FIO)	Post-Doc	China	Chen	Sheng
First Institute of Oceanography (FIO)	Professor	China	Liu	Yanguang
First Institute of Oceanography (FIO)	Associate Research Fellow	China	Xue	Liang
First Institute of Oceanography (FIO)	Associate Research Fellow	China	Gao	libao
First Institute of Oceanography (FIO)	Associate Research Fellow	China	Cui	Yingchun
First Institute of Oceanography (FIO)	Professor	China	Zhang	Xuelei
First Institute of Oceanography (FIO)	Associate Researcher	China	Li	Chuanshun
First Institute of Oceanography (FIO)	Dr	China	Huang	Chuanjiang
First Institute of Oceanography (FIO)	Dr	China	Liu	Lin
First Institute of Oceanography (FIO)	Project Officer	China	LV	Wenjun
First Institute of Oceanography (FIO)	Project Officer	China	Wang	Yan
Institute of Oceanology, Chinese Academy of Sciences (IOCAS)	International Cooperation Officer	China	Yang	Fengfan
Institute of Oceanology, Chinese Academy of Sciences (IOCAS)	Director	China	Wang	Fan
Institute of Oceanology, Chinese Academy of Sciences (IOCAS)	Assistant Director	China	Yu	Rencheng
Institute of Oceanology, Chinese Academy of Sciences (IOCAS)	Head of International Cooperation Office	China	Li	Yanwei
Institute of Oceanology, Chinese Academy of Sciences (IOCAS)	Deputy Director	China	Li	Chaolun
Qingdao National Laboratory for Marine Science and Technology (QNLN)	Head of International Cooperation Department	China	Tan	Gongke
Qingdao National Laboratory for Marine Science and Technology (QNLN)	Project Officer	China	Xu	Jingjing
The Marine and Coastal Research Institute "Jose Benito Vives de Andreis" - INVEMAR	Director	Colombia	Arias-Isaza	Francisco Armando
Centre Universitaire de Recherche et d'Application en Télédétection (CURAT)	Senior Lecturer	Cote D'Ivoire	Mobio	Abaka Brice Herve
Institut Français pour l'Exploitation de la Mer (Ifremer)	Director of European and International Affairs	France	Lericolais	Gilles
Alfred-Wegener-Institut Helmholtz Centre for Polar and Marine Research (AWI)	Deputy Director	Germany	Wiltshire	Karen Helen
Alfred-Wegener-Institut Helmholtz Centre for Polar and Marine Research (AWI)	Professor	Germany	Lemke	Peter

GEOMAR Helmholtz Centre for Ocean Research Kiel	Professor	Germany	Visbeck	Martin
Department of Marine and Fisheries Sciences, University of Ghana	Lecturer	Ghana	Mahu	Edem
CMCC - Laboratory of Experimental Oceanology and Marine Ecology	Professor	Italy	Marcelli	Marco
Japan Agency for Marine-Earth Science and Technology (JAMSTEC)	Executive Director	Japan	Sakaguchi	Hide
Japan Agency for Marine-Earth Science and Technology (JAMSTEC)	Scientist	Japan	Zhang	Yi
Korea Institute of Ocean Science & Technology (KIOST)	Professor	Korea	Youngmin	Oh
Oceanology Division of The Center for Scientific Research and Higher Education at Ensenada (CICESE)	Director	Mexico	Pavia	Edgar G
Nigerian Institute for Oceanography and Marine Research	Researcher	Nigeria	Akinnigbagbe	Akintoye
Norwegian Polar Institute	International Director	Norway	Holmén	Kim
P.P. Shirshov Institute of Oceanology	Head of Public Relations Department	Russia	Kononova	Julia
P.P. Shirshov Institute of Oceanology	Head of Laboratory	Russia	Roginskiy	Konstantin
Instituto Espanol de Oceanografia (IEO)	Director	Spain	Balguerrías Guerra	Eduardo
Scottish Association for Marine Science (SAMS)	Director	United Kingdom	Owens	Nicholas
Plymouth Marine Laboratory (PML)	Chief Executive	United Kingdom	Allen	Icarus
Woods Hole Oceanographic Institution (WHOI)	Senior Scientist	United States	Wijffels	Susan
Texas A&M University	Director	United States	Knap	Anthony
Scripps Institution of Oceanography	Director	United States	Leinen	Margaret
Partners/Observers				
CLIVAR	Director International CLIVAR Project Office	China	Santos	Jose
CLIVAR	Staff Scientist	China	Li	Jing
CLIVAR	Staff Scientist	China	Yin	Liping
CLIVAR	Administrative assistant	China	Qian	Zhao
Marine Forecasting and Monitoring Department	Deputy Director	China	Chen	Zhi
Chinese Arctic and Antarctic Administration	Senior Advisor	China	Xu	Shijie
Chinese Arctic and Antarctic Administration	Deputy Director of Science and Technology Department	China	Li	Honglei
Fourth Institute of Oceanography	Professor	China	Zhang	Qiufeng
National Marine Data and Information Service	Deputy director of Science and Technology Department	China	Gao	Zhigang
National Marine Environmental Forecasting Center	Deputy Director	China	Liu	Guimei
National Ocean Technology Center	Deputy director general	China	Peng	Wei
National Ocean Technology Center	Associate professor	China	Wang	Wei
National Ocean Technology Center	Scientist	China	Wang	Fang
National Deep Sea Center	Professor	China	Gao	Xiang
Ocean University of China	Professor	China	Lin	Xiaopei
Ocean University of China	Professor	China	Chen	Zhaohui
Polar Research Institute of China	Professor	China	Li	Shenggui
Qingdao Institute of Marine Geology	Professor	China	Yin	Ping
Second Institute of Oceanography	Professor	China	Cai	Fei
Second Institute of Oceanography	Associate Professor	China	Liu	Qian
Second Institute of Oceanography	Professor	China	Wang	Yuntao

Shandong University	Associate professor	China	Luan	Yizhong
Shandong University	Associate professor	China	Jiang	Xiangyuan
Shandong University	Research associate	China	Chen	Jiyang
Shandong University	Professor	China	Wu	Qi
Shandong University	Professor	China	Yang	Shanmin
Shandong University	Associate professor	China	Tang	Yuelei
Shandong University	Director of General office	China	Lin	Chunling
South China Sea Institute of Oceanology	Deputy Director	China	Du	Yan
South China Sea Institute of Oceanology	Assistant Scientist	China	Wang	Tianyu
Third Institute of Oceanography	Secretary General	China	Wu	Risheng
GOOS IOC/UNESCO	Office Director	France	Fischer	Albert
Hokkaido University	Professor	Japan	Minobe	Shoshiro
University of Southampton	Professor	United Kingdom	Marsh	Bob
NANO Members				
Russian Federal Research Institute of Fisheries and Oceanography	Head of Division	Russia	Kivva	Kirill
Universiti Sains Malaysia	Senior Lecturer	Malaysia	Md Salleh	Sazlina
Universidad Autonoma de Baja California	Professor	Mexico	Gonzalez-Silvera	Adriana
University Jean Lorougnon Guédé	Lecturer	Côte d'Ivoire	Akpetou	Lazare
Secretariat				
POGO Secretariat	CEO	United Kingdom	Seeyave	Sophie
POGO Secretariat	Scientific Coordinator	Portugal	Krug	Lilian Anne