



2nd International
Indian Ocean
Expedition
2015-2020

Newsletter

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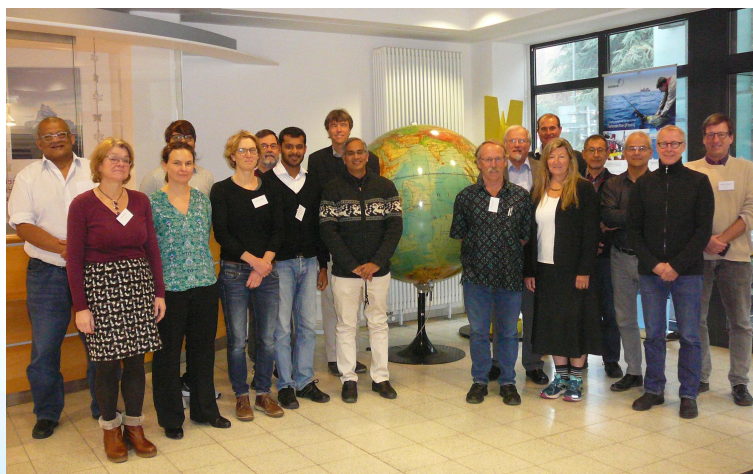
(A basin-wide research program co-sponsored by IOC-UNESCO, SCOR and IOGOOS)

To advance our understanding of interactions between geologic, oceanic and atmospheric processes that give rise to the complex physical dynamics of the Indian Ocean region, and to determine how those dynamics affect climate, extreme events, marine biogeochemical cycles, ecosystems and human populations.



IIOE-2 Working Group-1 'Science & Research' Meeting, Kiel, 28-30 November, 2018

IIOE-2 Working Group-1 convened a workshop at the GEOMAR Helmholtz Centre for Ocean Research in Kiel on November 28-30, 2018. With sponsorship from SCOR and the Kiel Future Ocean Excellence Cluster and hosted by Helmholtz Centre, the IIOE-2 science theme leaders met for 3 days to discuss the generation of scientific products to highlight the progress of IIOE-2 3 years into the 5 year expedition and to begin related forward thinking for a prospective continuance of IIOE-2 into the next decade, including in light of the IIOE-2's potential role in contributing both in its own right and also as a model case to the UN Decade of Ocean Science for Sustainable Development 2021-30. These products will include 1) a Joint Program Office (JPO) flyer designed for distribution to policy makers and the public, 2) a special issue of synthesis papers inspired by the IIOE-2 Science Plan research themes, and 3) a summary paper highlighting IIOE-2 progress for the special issue and for publication as an information article in a high profile scientific journal such as Science or Nature.



WG-1 Workshop participants



In addition to overview presentations by the science theme leaders and the German IIOE-2 National Committee, keynote presentations were given by GEOMAR scientists Martin Visbeck, Jonathan Durgadoo, Colin Devey, and Cathleen Schlundt. There were also special presentations by Arvind Singh from PRL, India, on the activities and progress of the IIOE-2 Early Career Scientists Network (ECSN), and by Cyndy Chandler from WHOI, USA, on IIOE-2 data and information management. Combined, these presentations provided a broad overview of the activities and achievements of IIOE-2 thus far, and also highlighted some exciting new scientific challenges emerging in the Indian Ocean and globally.

The agenda was designed to provide ample time for discussion, which mostly revolved around finalizing the JPO flyer and the synthesis papers. Eight synthesis papers are anticipated related to 1) the unique biogeochemical features of the northern Indian Ocean (led by Tim Rixen), 2) plastic pollution (led by Chari Pattiaratchi), 3) saltwater intrusion (led by Willard Moore), 4) the physical and biogeochemical dynamics of upwelling and boundary currents (led by P. N. Vinayachandran), 5) circulation and air/sea exchange (led by Amit Tandon), 6) extreme events (led by Chari Pattiaratchi), 7) marine geology and geophysics (led by Jerome Dymant), and 8) atmospheric chemistry and physics (led by Susann Tegtmeier). There was a strong consensus that this issue should be published in a joint special issue of the EGU journals Biogeosciences, Ocean Science and Atmospheric Chemistry and Physics. Synthesis papers are still being solicited for this special issue related to the IIOE-2 Science Plan science themes or other topics in the Indian Ocean. Please contact Hermann Bange (hbange@geomar.de) or Raleigh Hood (rh Hood@umces.edu) if you are interesting in leading a synthesis paper for this special issue.

[Report Courtesy: Raleigh Hood, University of Maryland, USA; Hermann Bange, GEOMAR, Germany; Nick D'Adamo, IIOE-2 JPO Australia; Ed Urban, SCOR, USA]

IIOE-2 Endorses KUDOS

The IIOE-2 steering committee recently endorsed the Korea-US inDian Ocean Scientific (KUDOS) Research Program to study the physical, biogeochemical and ecological Dynamics of the Seychelles-Chagos Thermocline Ridge (SCTR). The SCTR is a unique oceanographic feature located between approximately 5°-15°S that arises from the strong monsoonal forcing and resulting meridional asymmetry in Indian Ocean circulation.

KUDOS is structured around five themes, each of which presents significant opportunities to advance our understanding and ability to predict variability in the region. The five themes are: 1) ocean-atmosphere interactions; 2) ocean circulation; 3) biogeochemical and carbon cycles; 4) climate variability, change and extreme events; and 5) ecosystems and fisheries. KUDOS will build on Korean and the US research interests in the Indian Ocean, take advantage of the capabilities that each nation has for carrying out field and modeling work in the region, and complement other national efforts contributing to IIOE-2.

KUDOS has held two workshops, one at Seoul National University in Seoul, South Korea (29 Nov-1 Dec 2017) to develop a focused science plan and implementation strategy and a second workshop at Scripps Institution of Oceanography in La Jolla, California (6-8 Nov 2018) to define specific research projects to carry out collaboratively between Korean and US investigators. A centerpiece of the collaboration will be the research carried out aboard cruises of the recently launched Korean R/V Isabu which conducted its maiden voyage to the Indian Ocean in 2017.

Results of the second KUDOS workshop and a copy of the science and implementation plan can be found at <https://kiost-noaa-lab.wixsite.com/kudos2018plus>

[Report Courtesy: Michael McPhaden, NOAA/PMEL, USA]

Opportunity for Early Career Scientist: Postdoctoral Positions at IISc, Bangalore, India.

The Centre for Atmospheric and Oceanic Sciences (CAOS; <http://caos.iisc.ac.in>) at the Indian Institute of Science (IISc; <https://iisc.ac.in>) welcomes applications from recent PhDs in oceanography for the newly established Raman Postdoctoral Fellowships. Candidates of all nationalities are eligible to apply. The application form, details regarding the application process, salary and qualifications can be found at <https://iisc.ac.in/post-docs/>. The initial appointments will be for a period of two years.

Details on research fields in oceanography are available from Prof. P. N. Vinayachandran (vinay@iisc.ac.in)

Annual Meetings of the IIOE-2 Steering Committee, IOGOOS, IORP, SIBER, IRF & IOCINDIO 11-15 March 2019, South Africa

The IIOE-2 Joint Project office is pleased to report that through the agency of Prof Mike Roberts and associated colleagues of the West Indian Ocean SOLSTICE project (<http://www.solstice-wio.org/>) the Nelson Mandela University has offered to host the 3rd IIOE-2 Steering Committee meeting within the week of 11-15 March 2019, Port Elizabeth, South Africa. As in the past, this IIOE-2 meeting will be held under the banner of a 3rd International Indian Ocean Science Conference (IIOESC3), and incorporated collegially within an integrated week's schedule with IOGOOS-15, IORP-15, SIBER-9, IRF-9 and IOCINDIO-7. This is an early notice and further information (such as exact scheduling of the various meetings within the overall 5 day period of 11-15 March, 2019) will be conveyed as the JPO undertakes planning with Nelson Mandela University and Prof. Michael Roberts.

IOGOOS - Indian Ocean Global Ocean Observing System (a GOOS Regional Alliance) ; IORP – Indian Ocean Region Panel of CLIVAR/IOC-GOOS ; SIBER – Sustained Indian Ocean Biogeochemistry and Ecosystem Research; IRF – Indian Ocean Observing System Resources Forum of IOGOOS; IOCINDIO – IOC Regional Committee for the Central Indian Ocean

Some Upcoming Events

- ☞ SOLAS Open Science Conference during 21-25 April 2019, at Hokkaido University Conference Hall, Sapporo, Japan.
<https://www.confmanager.com/main.cfm?cid=2778>
- ☞ "Ocean sustainability for the benefit of society: Understanding, challenges, and solutions", 17-21 June 2019, Brest, France. Call for Sessions and Workshops at the Second Open Science Conference of the Integrated Marine Biosphere Research (IMBeR) Project.
<http://www.imber.info/en/events/osc--imber-open-science-conference/osc-2019/2019-imber-open-science-conference>
- ☞ 14th International Conference on Copepoda (ICOC) during 14-19 June 2020, at Kruger Park, South Africa.
http://abevents.co.za/WEB_ICOC2020/index.html

CLIVAR December 2018 Bulletin is available online



The International CLIVAR Project Office distributes a monthly bulletin with announcements, funding opportunities, meeting notifications relevant to the ocean/climate science community.

The latest CLIVAR Bulletin December, 2018 is available at:

<https://mailchi.mp/clivar.org/clivar-december-2018-bulletin?e=0e7979fd09>

Call for Contributions

Informal articles/short notes of general interest to the IIOE-2 community are invited for the next (January-end) issue of the IIOE-2 Newsletter. Contributions referring IIOE-2 endorsed projects, cruises, conferences, workshops, "plain language summary" of published papers focused on the Indian Ocean etc. are welcome. Articles may be up to 500 words in length (Word files) accompanied by suitable figures, photos.(separate.jpg files).

Deadline: **25 January, 2019**

The IIOE-2 Newsletter is published online by:



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<http://www.iioe-2.incois.gov.in/IIOE-2/Bubble.jsp>



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