

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.

Measurements of Volatile organic compounds over the Bay of Bengal during the 2018 summer monsoon

Volatile organic compounds (VOCs) are ubiquitous atmospheric constituents of both anthropogenic and natural origin. VOCs are important precursors of tropospheric ozone and have the potential to impact earth's climate. In recent years, several observations have been done on the biogenic VOCs (BVOCs) in terrestrial region and it has been observed that BVOCs are the main precursor of secondary organic aerosol (SOA) in addition to ozone. VOCs also increase the life time of the greenhouse gases such as methane. Non-methane hydrocarbon (NMHC) in the marine atmosphere is rarely reported. To understand the cloud microphysics and photochemistry over remote marine atmosphere, the study of VOC emission from the ocean is necessary. These NMHCs (light alkene, isoprene, monoterpenes) also control the local photochemistry of the marine boundary layer. The study of isoprene and monoterpenes (a-pinene and b-pinene) has not been done over the northern Indian Ocean until now. In the present study, which was conducted during July 2018 onboard the research vessel Sagar Nidhi, we observed more than 50 VOCs over the BoB during the monsoon season. We further observed the value of a-pinene > 2 ppbv (Figure). The mixing ratio of benzene (anthropogenic VOCs) was also high for some days, which could be attributed to long range transport.

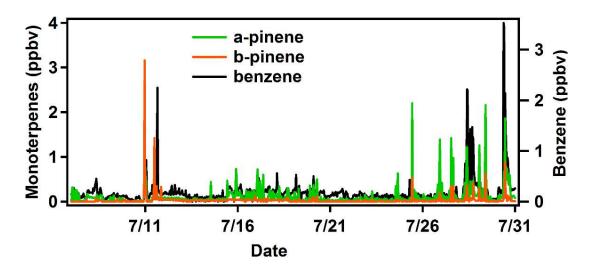


Figure . Time series analysis of monoterpenes (a-pinene and b-pinene) and benzene over the Bay of Bengal during monsoon season.

[Report Courtesy: Nidhi Tripathi and LK Sahu, Physical Research Laboratory, Ahmedabad, India.]







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 (IIOSC3), 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

- IV International Conference on El Niño Southern Oscillation: ENSO in a warmer Climate, 16-18 October 2018.
 Guayaquil Ecuador.
 - http://www.ensoconference2018.org/
- 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

Call for Contributions

Informal articles/short notes of general interest to the IIOE-2 community are invited for the next (October-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 October, 2018



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