

Abhijith Raj

Senior Research Fellow • Indian National Centre for Ocean Information Services (INCOIS),
Hyderabad, India - 500090 • abhijithraj@gmail.com • (+91) 9995830011

Education

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- 2019-Present Ph.D. Oceanography** : KUFOS-INCOIS Joint Research Centre, Hyderabad, India
Title: *A study on the micro-meteorological aspects of air-sea flux transfer in the Indian Ocean.*
Advisor: Dr. B. Praveen Kumar, Scientist-E, INCOIS
- 2017-2019 M.Sc. Oceanography** : Cochin University of Science and Technology, Kochi, India
Dissertation: *Mixed Layer Temperature Budget during the Northward Propagating Summer Monsoon Intraseasonal Oscillation (MISO) in the Arabian Sea.*
Advisor: Dr. Girishkumar M.S, Scientist-E, INCOIS
- 2013-2016 B.Sc. Physics** : University of Calicut, Calicut, India
- 2013 Diploma in Computer Applications** : Centre for Development of Imaging Technology, Kerala, India.

Publications

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- Abhijith Raj**; B Praveen Kumar; Venkata Jampana; Suresh Kumar; Pattabhi Rama Rao, An analysis of momentum flux characteristics in the Arabian Sea (*Manuscript under preparation*)
 - Abhijith Raj**; B Praveen Kumar; P G Remya; Meenakshi Sreejith; TM Balakrishnan Nair, Assessment of the forecasting potential of WAVEWATCH III model under different Indian Ocean wave conditions, J Earth Syst Sci 132, 32 (2023). <https://doi.org/10.1007/s12040-023-02045-w>
 - Meenakshi Sreejith; P G Remya; B Praveen Kumar; **Abhijith Raj**; TM Balakrishnan Nair, Exploring the impact of southern ocean sea ice on the Indian Ocean swells, Scientific Reports: July 2022. DOI: 10.1038/s41598-022-16634-0.

Achievements

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- Awarded the prestigious American Geophysical Union (AGU) Jerome M. Paros Scholarship in Geophysical Instrumentation for the year 2023.
 - Recognized with the Best Poster award at the Eighth National Conference of the Ocean Society of India (OSICON- 23) held from August 23-25, 2023, organized jointly by INCOIS and the Ocean Society of India (OSI).
 - Achieved 17th rank in National Eligibility Test (NET) for Lectureship (LS) and Research in Earth Sciences, conducted by Council of Scientific and Industrial Research, Govt. of India.
 - Secured the third position in the M.Sc. Oceanography program at Cochin University of Science and Technology, showcasing exceptional academic prowess in the field.

Activities, Conferences and Workshops

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- Training on "Ocean Data Management 2024" course organized by the UNESCO/IOC Project Office for IODE in February 2024.
 - Poster Presentation at the Li-Cor Connect 2023 Global Conference held during 6-9 November 2023 in Atlanta, USA.
 - Scientific cruise onboard ORV Sagar Nidhi (SN-178) in the Indian Ocean from 28th June 2023 to 25th July 2023.
 - Presentation (Oral) Session at AGU Fall Meeting - 2022 held from 12th -16th December 2022.
 - Scientific cruise onboard CRV- Sagar Tara (ST-26), in the Bay of Bengal, in February 2022.

- Presentation (Oral) Session at Ocean Sciences Meeting (OSM 2022) held from 28th February – 4th March, 2022.
- Poster Presentation at the International Indian Ocean Science Conference (IIOSC) - 2022 from 14th – 18th March 2022.
- Hands-on training on “DCFS data processing” using the INCOIS Flux mooring data 9, 16 & 23 September 2021
- Oral Presentation in the Seventh National Conference of the Ocean Society of India (OSICON-21) organised by the National Centre for Polar and Ocean Research (NCPOR), Ministry of Earth Sciences (MoES), Goa and Ocean Society of India (OSI) during 12-14, August 2021.
- Training on “Eddy covariance Flux System-Installation and data collection" 11 – 13 January 2021 by Tridel Technologies held at INCOIS.
- Induction training on “Earth System Sciences” at Indian Institute of Tropical Meteorology (IITM, Pune), from September to December 2019.
- Scientific cruise onboard ORV Sagar Nidhi (SN-137) from 3rd January 2019 to 05th February 2019.
- Training on “Satellite Meteorology” at Space Applications Centre, Indian Space Research Organization (ISRO), during March 2018.
- Participated in a National workshop on “Monsoons in the changing climate” at the Department of Atmospheric Sciences, CUSAT, in 2018.
- Participated in a National workshop on “Statistical Analysis & Computational Tools in Ocean Data Processing” at the Department of Physical Oceanography, CUSAT, in 2018

Skills & Interests

- **Instruments:** Eddy-Covariance Flux System (Sonic Anemometer, Infrared Gas analyzer and Inertial Motion Unit), underway CTD (uCTD), CTD, Vertical Microstructure Profiler, LADCP
- **Numerical Model:** WaveWatch-III
- **Platforms:** Unix/Linux, Windows
- **Programming Languages:** Fortran, C
- **Tools:** MATLAB, Ferret, Shell scripting