SUDEEP DAS

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Ocean Analysis and Modeling Laboratory
School of Earth Ocean and Climate Sciences
Indian Institute of Technology (IIT)
Bhubaneswar Odisha, India, 752050

Research Interest: Biophysical Oceanography, Climate Change

EDUCATION

Aug 2020- Present	Ph.D. in Physical Oceanography School of Earth, Ocean and Climate Sciences Indian Institute of Technology (IIT) Bhubaneswar, India **Supervisor**: Dr. Sourav Sil **Thesis title**: Investigation of Factors Regulating Biogeochemical Variability in the Bay of Bengal
June 2015 – July 2020	Integrated BS-MS Dual Degree in Geological (Earth) Sciences Department of Earth Sciences IISER Kolkata, West Bengal, India

RESEARCH EXPERIENCES

Aug 2025 – Present	Project Associate School of Earth, Ocean and Climate Sciences Indian Institute of Technology Bhubaneswar, India "Formation and Dissipation Mechanism of Marine Heatwaves and their influences on primary productivity and air-sea interactions in the Bay of Bengal."
Aug 2022 – Aug 2025	Senior Research Fellow School of Earth, Ocean and Climate Sciences Indian Institute of Technology Bhubaneswar, India
Aug 2020 – July 2022	Junior Research Fellow School of Earth, Ocean and Climate Sciences Indian Institute of Technology Bhubaneswar, India
Aug 2019 – June 2020	Masters Project Department of Earth Sciences, IISER Kolkata, West Bengal, India & IITM (Indian Institute of Tropical Meteorology) Pune "Atmospheric aerosol variability over Pune and its comparison with other urban regions in India: Sources and effects"
May 2019 – July 2019	Summer Project IITM (Indian Institute of Tropical Meteorology) Pune "Variability of trends observed in Atmospheric Aerosol optical properties over Pune"

May 2016 – June 2016	Summer Project ESSO-INCOIS-Indian National Centre for Ocean Information Services, Hyderabad "Assessment of MetOcean conditions and Shoreline Change of Lehar Cyclone"

AWARDS, SCORES AND POSITIONS

- CSIR Senior Research Fellow (2022-25)
- CSIR Junior Research Fellow (2020-22)
- INSPIRE SHE Fellow (2015-20)
- "Dr. M. Baba Award" for best oral presentation in Physical Oceanography at OSICON 25.
- Qualified CSIR NET JRF (All India Rank 57, Dec 2018) & Lectureship (All India Rank 11, Jun 2019) in Earth, Atmospheric, Oceanic and Planetary Sciences
- TOEFL iBT Score – 104/120 (Reading – 28/30, Listening – 27/30, Speaking – 25/30, Writing – 24/30) in 2019
- Second prize at Hackathon in OCEANS 2022 (organized by IEEE & MTS)
- General Secretary (Hostel & Transport) at Indian Institute of Science, Education and Research, Kolkata (2016-17) and Dramatic Secretary at BJB Junior College, Bhubaneswar (2013-14)

SKILLS

- Programming Languages – MATLAB (skilled), Python (Intermediate), JAVA (Beginner)
- ROMS/CROCO-AGRIF (Regional Ocean Circulation Models) with biology (Intermediate)
- GIS software – Ferret (Intermediate), ARCGIS (Intermediate) and ERDAS (Beginner)
- Shell Scripting (Beginner)
- HYSPLIT model, Using large data arrays (NetCDF & HDF), OriginLab for statistics
- MS Office and Latex
- Basic photo, audio, video, and website editing using Adobe softwares (Photoshop, Illustrator, Indesign, Audition, Premier Pro, After Effects, Lightroom Classic etc)
- Ocean field experience (seaworthiness) and using instruments like CTD, Niskin sampler, Radiometer, Grab sampler, etc, across estuaries, lakes, and coastal marine environments.
- Geology field experience in using compass and clinometer, identifying rocks and minerals
- Basic use of techniques involving Spectroscopy, X-ray Crystallography, and wet chemistry analysis

TRAININGS/WORKSHOPS

- "National Workshop on Recent Research Trends in Ocean Engineering, Science and Technology" at IIT Bombay (Funded by IIT Bombay and MoES)
- "Ocean Observations to Societal Applications" at Andhra University, Visakhapatnam and INCOIS, Hyderabad (Funded by POGO and INCOIS)
- "Satellite-based tools for investigating aquatic ecosystems" at Plymouth Marine Laboratory, Plymouth, UK (Funded by ESA-PML)

REFEREES

- Dr Sourav Sil, Associate Professor (PhD supervisor)
Indian Institute of Technology Bhubaneswar

- Dr Dipanjan Dey, Assistant Professor (Collaborator and mentor)
  Indian Institute of Technology Bhubaneswar
- Dr Govindan Pandithurai, Scientist F (MS Project supervisor)
  Indian Institute of Tropical Meteorology Pune
- Dr Prakash Chandra Mohanty (Summer project supervisor)
  Indian National Centre for Ocean Information Services, Hyderabad
- Dr Sayantan Sarkar (MS Project Co-supervisor)
  Indian Institute of Technology Mandi

PUBLICATIONS

1. **Das, S.**, Deogharia, R., & Sil, S. (2024). Classification of eco-zones from the factors and processes controlling phytoplankton biomass. *Marine Environmental Research*, 198, 106528. http://doi.org/10.1016/j.marenvres.2024.106528
2. **Das, S.**, & Sil, S. (2024). Diel Variations in the Upper Layer Biophysical Processes using a BGC-Argo in the Bay of Bengal. *Deep Sea Research Part II: Topical Studies in Oceanography*, 105392. http://doi.org/10.1016/j.dsr2.2024.105392
3. **Das, S.**, Sil, S. & Boopathi, V. (2025) Cluster-based analysis of biophysical controls on spatiotemporal variability of productivity in the Bay of Bengal. *CSIT*. http://doi.org/10.1007/s40012-025-00412-0
4. Ray, A., **Das, S.**, & Sil, S. (2024). Role of anomalous ocean warming on the intensification of pre-monsoon tropical cyclones over the northern Bay of Bengal. *Journal of Geophysical Research: Oceans*, 129(4), e2023JC020527. http://doi.org/10.1029/2023JC020527

CONFERENCES PRESENTED

1. Das, S., Sil, S., & Ray, A. (2025). Sources and Fate of Deep DO in the Bay of Bengal. *AOGS 2025,* Singapore
2. Das, S., Deogharia, R., & Sil, S. (2025). Classifying Global Oceans by the Impact of Oceanic Parameters and Processes on Marine Productivity. *OSICON 25,* CSIR-NIO Goa.
3. Das, S., Deogharia, R., & Sil, S. (2023). Classification of global oceans based on the impact of factors affecting primary productivity. *Trevor Platt Science Foundation Symposium 2023,* PML UK.
4. Das, S., & Sil, S. (2021). Distribution and Trends of Coccolithophore Concentration in the Oceans using Satellite-derived Particulate Inorganic Carbon. *AGU Fall Meeting 2021* (online) https://doi.org/10.1002/essoar.10510301.1
5. Das, S., & Pandithurai, G. (2020). Variability of trends observed in Atmospheric Aerosol optical properties over Pune, India. *EGU General Assembly Conference* (p. 21180) (online) https://doi.org/10.5194/egusphere-egu2020-21180

TEACHING EXPERIENCE (AS ASSISTANT)

1. Numerical Simulation Laboratory – Oceanic Processes (NSLO): 2025, 2024, 2022
2. Introduction to Ocean Dynamics (IOD): 2024
3. Simulations of Atmospheric and Oceanic Processes (SAOP): 2023, 2021
4. Ocean State Forecasting (OSF): 2022
5. Modelling of Dynamical Processes of Ocean and Atmosphere (MDPOA): 2023

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