



Contacts



Geological Oceanography Division
CSIR-National Institute of Oceanography
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Educational Qualifications

PhD Awarded- CSIR-National Institute of Oceanography, India (Dec-2021).
CSIR-JRF-NET Qualified (Dec-2015).

M.Sc. (Tech) Geology

Institute of Science,
Banaras Hindu University, CGPA 8.20
2013-2016.

B.Sc.(Hons) Geology,

Institute of Science,
Banaras Hindu University, CGPA 7.17
2010-2013.

Class XII (State Board of UP, Allahabad)

SVN Inter College Kalan, Sultanpur,
UP. 68.40 %, 2009

Personal Details

Date of Birth : 5th Jul 1991

Gender : Male

Nationality : Indian

Linguistic ability: English and Hindi

https://www.researchgate.net/profile/Ramanand_Yadav2
www.nio.org/profile/83861/ramanand-yadav

RAMANAND YADAV

CSIR- Senior Research Fellow

PhD Awarded- AcSIR-CSIR- National Institute of Oceanography
under the Guidance of Dr. Sushant S. Naik

Thesis title

“Reconstruction of monsoon variability, associated upper water-column structure productivity, and carbonate content from equatorial Indian Ocean during the late Quaternary”

Career Objective

To extend my knowledge, skills and merits for better understanding of the marine earth system science and to work in scientific and relevant societal perspective.

Research Interest

Paleontology/Paleoclimatology/Paleoceanography

- Paleomonsoon reconstruction based on marine microfossil (Foraminifera) and geochemical proxies on Million year to Centennial time scale.
- Using stable isotopic composition of Oxygen and Carbon-infer the paleomonssonal study from the marine realm.
- Using Carbonate chemistry- document the concentration of CO₂ in marine realm and revealing the dissolution of atmospheric CO₂ in to the ocean water and leakage of deep ocean CO₂ to the atmosphere at different time scale.
- To unfold the study of past oceanic carbon cycling and mixing of different water masses.
- Reconstruction of paleoproductivity using $\delta^{13}\text{C}$ and other geochemical proxy.

Research Experience and Field Training

- Participation in cruise RV Sindhu Sadhana during its 67th expedition started from off Chennai to Goa. Learned sampling collection techniques using Multi corer, Gravity Corer and Piston corer (**Nov-Dec, 2019**).
- Down core variation of CaCO₃% and Total Organic Carbon (TIC) & Total Nitrogen % from the Central & Eastern Equatorial Indian Ocean during late quaternary (**Jan-2018 to July -2018**).
- Full one year (two semester) Ph.D. course work by AcSIR-CSIR-National Institute of oceanography: Introduction to Oceanography, Ocean Observation sampling, Research methodology, Research proposal and three elective papers (**Aug-2016 to July- 2017**).

- Dissertation in M.Sc. (Tech) Geology Course:-VI semester – Systematic study of Bivalves from Late Cretaceous succession of Cauvery Basin, Tamilnadu India, under the supervision of Prof. A. K. Jaitly, Department of Geology, B.H.U., Varanasi (**Sep 2015 to May 2016**).
- M.Sc. (Tech) IV Semester- Geological studies in Eastern Ghats area (Jharsuguda, Keonjhar, Puri districts) Odisha (**Feb to Mar 2015**).
- M.Sc. (Tech) II Semester- Geological Mapping around Renukoot area in Sonbhadra district-Uttar Pradesh (**Feb 2014**).
- B.Sc. VI Semester- Geological field study of Chitrakoot Region, Madhya Pradesh (**Mar 2013**).
- B.Sc. IV Semester– Detailed Outcrop study of Lower Vindhyan Supergroup in Sone Valley (Semri and Kaimur Groups) (**Feb 2012**).
- B.Sc. II Semester–Field work and overview of the Geology of Vindhyan Super Group exposed in nearby Chunar and Mirzapur Uttar Pradesh (**Feb 2011**).

Technology Expertise

- Handling of (coulometer) **CM140 Total Inorganic analyzer** for sediment sample with Acidification module.
- Handling of Thermo Scientific **Flash2000 Series Nitrogen and Carbon analyzer** for the sediment sample
- Handling of **Laser Particle Size Analyser** (LPSA) for sediment sample.
- Handling of **Auto-analyzer** to analyze the Nutrient concentration.
- Chemical analysis like dissolve oxygen, nitrate and pH can analyze.
- Software's for data analysis and interpretation like Corel Draw, ODV and Origin plots.

Workshops, Trainings and Conferences

- Participated in 3 days program “**International Webinar Series**” on the topic “Advances in Earth and Environmental Geosciences”, organized by **Department of Geophysics ISc, BHU** in association with **AGU** during **10-11 March, 2022**.
- International Conference on Paleoclimate Changes (**ICPC 2020**) held during **9-10 July, 2020** on virtual platform organized by **School of Civil Engineering, VIT Chennai**.
- Attended an e-Training on “**Micropaleontology and ¹⁴C dating**” from **21.07.2020 to 31.07.2020** Organized by **Geological Survey of India**, Regional Training Division, Northern Region, Lucknow.
- Participated in a 3 days Webinar entitled, “**Avenues in Ocean Research**” conducted by **BECH-RUSA 2.0 & Department of Marine Science, Bharathidasan University**, Palkalaiperur, Tiruchirappalli, from **27th to 29th May 2020**.
- Participated in a 3 days Faculty program on “**Art of writing research article and funding proposals**” Organized by **Manakula Vinayagar Institute of Technology (IEEE STB-10831)** Puducherry from **21st May 2020 to 21rd May 2020**.
- Delivered a public lecture on the topic “**Introduction to the Earth System Science**” at **HCI Academy, Ayodhya** on **26th February, 2019**.

- Participated in a 3 day “**National Workshop on Isotopes in Earth, Ocean & Atmospheric Sciences** jointly organized by **IUAC-NEW DELHI & CSIR-NIO** and hosted by **CSIR-NIO, Goa** during **18-20, February, 2019**.
- Participated in a 2 day “**National Level Workshop on wetland Restoration**” organized by **Dr. Balasaheb Khardekar College, Vengurla, Maharashtra, India** during **2 -3, February, 2019**.
- Participated in a 3 day “**SCOR-InterRidge Workshop on Mid-Ocean Ridges and other Geological Features of the Indian Ocean**”, jointly organized by the **SCOR, InterRidge** and co-hosted by **CSIR-National Institute of Oceanography, Goa, India** from **14th-16th November, 2018**.
- Participated in a 3 day AAPG (American Association of Petroleum Geology) Annual Meet held in Indian Institute of Technology (Indian School of Mines), Dhanbad during **22 -24, February, 2014**.

Posters and oral presentation

- Oral presentation – **Ramanand Yadav***, **Sushant S.Naik**. on “**Variation in carbonate burial in the equatorial Indian Ocean during the late Glacial-Holocene: Implication to the deglacial rise of atmospheric CO₂**” in the **International Indian Ocean Science Conference (IIOSC)-2022** organized by **CSIR-National Institute of Oceanography, Goa**, during **14-18 March, 2022**.
- Poster Presentation – **Ramanand Yadav***, **Smita N. Naik, Sushant S. Naik, Kumari Nisha**. On “**Planktic foraminiferal response to the surface hydrography of the southeastern Arabian Sea during last 140ka: linkage to the tropical/or equatorial climate dynamics**” virtually organized by **Indian Quaternary Congress** during **19-21 January, 2022**.
- Oral presentation – **Ramanand Yadav***, **Sushant S.Naik**. on “**Indian Monsoon variability inferred from Planktic foraminiferal faunal record from the central equatorial Indian Ocean during the last 33kyr**” in **XXVII Indian Colloquium of Micropaleontology and Stratigraphy (ICMS)** during **4-6, November, 2019** at **BHU, Varanasi**.
- Oral presentation-**Ramanand Yadav***, **Sushant S Naik, P.D.Naidu**. On “**Productivity variations from the Eastern Equatorial Indian Ocean since the mid-Pleistocene**” in **55th Annual Convention** on the theme “**changing Water Cycle & Water Resources**” jointly organized by **Indian Geophysical Union & Rabindranath Tagore University**, held in **RNTU- Bhopal** during **5- 7, December, 2018**.

Extra-Curricular

- **Certificate of participation** for one day Hindi seminar on the “**Indian monsoon variability inferred from Planktic foraminiferal record in the central equatorial Indian Ocean during last 33ka** ” organized by **CSIR-National Institute of Oceanography, Dona Paula, Goa** on **9th September, 2019**.
- **Certificate of participation** for one day Hindi seminar on the theme of “**Blue Economy**” the topic of presentation was, “**Productivity variation from Eastern Equatorial Indian Ocean with special reference to the Indian ocean Dipole** ” organized by **CSIR-National Institute of Oceanography, Dona Paula, Goa** on **24th September, 2018**.
- **2nd position** in volleyball event **2014-2015** organized by **Dalmia hostel, Institute of Science, Athletic Association, B.H.U., Varanasi**.
- **3rd position** in volleyball event **2014-2015** organized by **Institute of Science, Athletic Association, B.H.U., Varanasi**.
- **2nd position** in volleyball event **2012-2013** organized by **Institute of Science, Athletic Association, B.H.U., Varanasi**.

Honours & Awards

- **Senior Research fellow** of **Council of Scientific and Industrial Research, New Delhi India** with fellowship for PhD Programme (**Aug 2018 –Aug-2021**).
- **Junior Research fellow** of **Council of Scientific and Industrial Research, New Delhi India** with fellowship for PhD Programme (**Aug 2016-Aug2018**).

Publications

- Naik, Smita. N., Naik, S. S., **Yadav, R.**, Nisha, K. Planktic foraminiferal response to the surface hydrography of the southeastern Arabian Sea during last 140ka: linkage to the tropical/or equatorial climate dynamics? (**Under Preparation**)
- **Yadav, R.**, Naik, S.S. Variation in Calcium Carbonate preservation Since the Last Glacial Maximum period: Implication to the deglacial rise of CO₂. (**Under Review**)
- Nigam, R., Luis, A.J., Prasad, P., Kuttikar, S., **Yadav, R.**, Vaz, E., Kotha, M., 2022. Spatio-temporal assessment of COVID-19 lockdown impact on beach litter status and composition in Goa, India. **Marine Pollution Bulletin**, 174, 113293, **IF=5.553** <https://doi.org/10.1016/j.marpolbul.2021.113293>.
- **Yadav, R.**, Naik. S.S., Naidu, P.D., 2022. Contrasts in calcium carbonate dissolution above the Lysocline in the equatorial Indian Ocean over the last ~ 40 ka. **Marine Geology**, 444, 106717. **IF= 3.548** <https://doi.org/10.1016/j.margeo.2021.106717>.
- **Yadav, R.**, Naik, S.S., Narvekar, J., 2021. The equatorial Indian Ocean upper water-column structure influenced by cross-basinal water exchange over the last~ 40000 years. **Quaternary International**, 1-9. **IF=2.130** <https://doi.org/10.1016/j.quaint.2021.04.002>.
- Prasad, P., Loveson, V.J., Kotha, M., **Yadav, R.**, 2020. Application of machine learning techniques in groundwater potential mapping along the west coast of India. **GIScience & Remote Sensing**, 57(6) 735- 752. **IF=6.238** <https://doi.org/10.1080/15481603.2020.1794104>.
- Saraswat, R., Kurtarkar, S.R., Yadav, R., Mackensen, A., Singh, D.P., Bhadra, S., Singh, A.D., Tiwari, M., Prabhukeluskar, S.P., Bandodkar, S.R., Pandey, D.K., 2020. Inconsistent change in surface hydrography of the eastern Arabian Sea during the last four glacial–interglacial intervals. **Geological Magazine**, 157(6), 989-1000. **IF=2.452** <https://doi.org/10.1017/S0016756819001122>.