

Dr. Vikash Kumar

SCIENTIST-D · PAST CLIMATE AND OCEAN STUDIES
NATIONAL CENTRE FOR POLAR AND OCEAN RESEARCH
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Education

National Centre for Polar & Ocean Research | Goa University

University Road, Taleigao,
Goa-403206, India
2016 - 2022

PHD | EARTH, OCEAN & ATMOSPHERIC SCIENCES |

- Thesis title: *Teleconnection Between Past High and Mid-Latitude Climate and Indian Monsoon Variability*
- Advisor: Dr. Manish Tiwari, Scientist-F, NCPOR, Goa, India

Indian Institute of Science Education and Research (IISER) Kolkata

Mohanpur, Nadia, West
Bengal-741246, India
2007 - 2012

5 YEAR INTEGRATED BS-MS DUAL DEGREE

- Major in *Geological Sciences*
- Thesis title: *Paleo-Monsoon reconstruction using speleothem records*
- Thesis advisors: Prof. Joyanto Routh (Linköping University) and Dr. Jitendra Pattanaik (IISER Kolkata)

Professional Experience

- 2023- **Scientist-D**, National Centre for Polar & Ocean Research, Ministry of Earth Sciences, India
- 2019-2022 **Scientist-C**, National Centre for Polar & Ocean Research, Ministry of Earth Sciences, India
- 2016-2018 **Scientist-B**, National Centre for Polar & Ocean Research, Ministry of Earth Sciences, India
- 2015 **Project Scientist**, National Centre for Polar & Ocean Research, Ministry of Earth Sciences, India
- 2013-2015 **Trainee Scientist**, Indian Institute of Tropical Meteorology, Ministry of Earth Sciences, India
- 2012-2013 **Project Assistant**, National Geophysical Research Institute (NGRI), India

Publications

- Vikash Kumar**, Manish Tiwari, Siddhesh Nagoji, and Shubham Tripathi. 2016. Evidence of anomalously low $\delta^{13}C$ of marine organic matter in an Arctic fjord. **Scientific reports**, 6(1): 1-9.
- Vikash Kumar**, Manish Tiwari, and R. Rengarajan. 2018. Warming in the Arctic Captured by productivity variability at an Arctic Fjord over the past two centuries. **PLoS One**, 13(8): e0201456.
- Vikash Kumar**, Manish Tiwari, Dmitry V. Divine, Matthias Moros, Arto Miettinen. 2023. Arctic climate-Indian monsoon teleconnection during the last millennium revealed through geochemical proxies from an Arctic fjord. **Global and Planetary Change** (under review)
- Tiwari, Manish, **Vikash Kumar**, Sidhesh Nagoji, and Rahul Mohan. 2021. A 145 kyr record of upstream changes in Indian monsoon circulation and its link to southern high-latitude climate. **Polar Science**, 30: 100739.
- Vikash Kumar**, Manish Tiwari, Prince Prakash, Rahul Mohan, and Meloth Thamban. 2021. SST Changes in the Indian Sector of the Southern Ocean and their teleconnection with the Indian Monsoon during the Last Glacial Period. **Paleoceanography and Paleoclimatology**, 36(8): e2020PA004139.
- Sarathchandraprasad, T, Manish Tiwari, **Vikash Kumar**, Tejeswar Dash, Sharmila Sherin, Viola Rodrigues, Pratheeksha Nayak, and M. G. Yadava. 2022. Effects of island weathering and natural iron fertilization in the geochemistry of deglacial sediments from the Kerguelen Plateau, Southern Ocean. **Continental Shelf Research**, 251: 104881.
- Behera, Padmasini, Manish Tiwari, **Vikash Kumar**, T. Sarathchandraprasad, and Shubham Tripathi. 2022. South Asian Monsoon variability and Arctic sea ice extent linkages during the late Pliocene. **Paleoceanography and Paleoclimatology**, 37(9): e2022PA004436.

Manish Tiwari, Siddhesh Nagoji, **Vikash Kumar**, Shubham Tripathi, and Padmasini Behera. 2018. Oxygen isotope-salinity relation in an Arctic fjord (Kongsfjorden): Implications to hydrographic variability. **Geoscience Frontiers**, 9(6): 1937-43.

Huguet, Carme, Joyanto Routh, Susanne Fietz, Mahjoor Ahmad Lone, M. S. Kalpana, Prosenjit Ghosh, Augusto Mangini, **Vikash Kumar**, and Ravi Rangarajan. 2018. Temperature and monsoon tango in a tropical stalagmite: last glacial-interglacial climate dynamics. **Scientific reports**, 8(1): 1-10.

Awards & Achievements

2013	CSIR- Junior Research Fellowship , Council of Scientific and Industrial Research (CSIR), Ministry of Science & Technology, Govt. of India	<i>All India Rank-14</i>
2013	Graduate Aptitude Test in Engineering (GATE) , Indian Institute of Technology, Ministry of Education, Govt. of India	<i>All India Rank-66</i>
2013	Qualified for Trainee Scientific Officer , Bhabha Atomic Research Centre, Department of Atomic Energy, Govt. of India	
2013	Qualified for Trainee Scientist position , Centre for Advanced Training, Ministry of Earth Sciences, Govt. of India	
2011	Common Admission Test (CAT-IIM) , Indian Institute of Management, Ministry of Education, Govt. of India	<i>All India Rank within Top 5 %</i>
2011	Summer Research Fellowship , awarded jointly by Indian Academy of Sciences, Indian National Science Academy, and The National Academy of Sciences	
2010	Summer Research Fellowship , awarded jointly by Indian Academy of Sciences, Indian National Science Academy, and The National Academy of Sciences	
2009	Summer Research Fellowship , awarded by National Aerospace Laboratory, Bangalore, India	
2007	Joint Entrance Examination (IIT-JEE) , Indian Institute of Technology, Ministry of Education, Govt. of India	<i>All India Rank within Top 3 %</i>
2007	Awarded Innovation in Science Pursuit for Inspired Research (INSPIRE) Scholarship for Higher Education , Ministry of Science & Technology, Govt. of India	<i>INR 4,00,000</i>
2007	All India Engineering Entrance Examination (AIEEE) , Central Board of Secondary Education, Ministry of Education, Govt. of India	<i>All India Rank within Top 3 %</i>