

Curriculum Vitae

Dr. Waliur Rahaman

Date of Birth 06, 1981

Scientist-E

Cryosphere Science Division
National Centre for Antarctic and Ocean Research,
Ministry of Earth Sciences, Govt. India
Vasco-Da-Gama, Goa 403804,
Email: waliur1981@gmail.com, waliur@ncaor.gov.in
Phone: 0832-2525637

AREA OF RESEARCH

-) Isotope geochemistry.
-) Antarctic climate variability from ice core records.
-) Trace elements and isotopes in oceans
-) Paleo-oceanography using radiogenic and stable isotope proxies
-) Weathering and erosion in the Himalaya
-) Cosmogenic nuclides ^{10}Be and ^{26}Al and their applications to earth surface processes.
-) Non-traditional stable metal/metalloid isotopes (ΩLi , $\Omega^1\text{B}$, $\Omega^0\text{Si}$, $\Omega^8\text{Mo}$ etc.) and their applications to understand earth surface and oceanic processes.
-) Development of non-traditional stable isotopes measurement using MC-ICP-MS.

ACADEMIC PROFILE

2005-2011 PhD (Geochemistry) at Physical Research Laboratory, Ahmedabad, India

2002-2004 M.Sc. (Applied Geology), Aligarh Muslim University, India

1999-2002 B.Sc. (Geology Hons. with Physics & Mathematics), Aligarh Muslim University, India.

PROFESSIONAL CAREER

2020- Cont... Scientist-E, National Centre for Antarctic & Ocean Research, Goa.

2016- 2019 Scientist-D, National Centre for Antarctic & Ocean Research, Goa.

2012- 2015 Scientist-C, National Centre for Antarctic & Ocean Research, Goa.

2012-2013 Alexander von Humboldt Postdoctoral Fellow at GFZ, Germany.

2011-2011 Research Scientist at National Geophysical Research Institute, Hyderabad

2010-2011 Postdoctoral Fellow at Physical Research Laboratory, Ahmedabad, India

AWARDS & HONOURS

- 2012 Alexander von Humboldt Postdoctoral Fellow at GFZ, Germany.
- 2007 Junior Research Fellowship and Lectureship (CSIR-JRF NET),
- 2005 Research Fellowship at Physical Research Laboratory, Ahmedabad

PROJECTS

Study of radiogenic and stable metal isotopes using MC-ICPMS: Applications to earth, ocean and cryospheric processes.

PEER-REVIEWED PUBLICATIONS

1. Danish, M., Tripathy, G.R., Rahaman, W., 2020. Submarine groundwater discharge to a tropical coastal lagoon (Chilika lagoon, India): An estimation using Sr isotopes. *Marine Chemistry*: 103816.
2. Kumar, A., Suresh, K., Rahman, W., 2020. Geochemical characterization of modern aeolian dust over the Northeastern Arabian Sea: Implication for dust transport in the Arabian Sea. *Science of The Total Environment*: 138576.
3. Laluraj, C., Rahaman, W., Thamban, M., Srivastava, R., 2020. Enhanced dust influx to South Atlantic sector of Antarctica during the late-20th Century: Causes and contribution to radiative forcing. *Journal of Geophysical Research: Atmospheres*.
4. Nuruzzama, M., Rahaman, W., Tripathy, G.R., Mohan, R., Patil, S., 2020. Dissolved major ions, Sr and $87\text{Sr}/86\text{Sr}$ of coastal lakes from Larsemann hills, East Antarctica: Solute sources and chemical weathering in a polar environment. *Hydrological Processes*.
5. Ajit T. Singh, W.R., Parmanand Sharma, C. M. Laluraj, Lavkush K. Patel, Bhanu Pratap, Vinay Kumar Gaddam, Thamban, M., 2019. Moisture Sources for Precipitation and Hydrograph Components of the Sutri Dhaka Glacier Basin, Western Himalayas. *Water*, 11(2242): doi:10.3390/w11112242.
6. Abhinay Sharma, R.K.G., N. V. Chalapathi Rao, Waliur Rahaman, Dinesh Pandit, Samarendra, 2019. Arc-Related Pyroxenites Derived from a Long-Lived Neoproterozoic Subduction System at the Southwestern Margin of the Cuddapah Basin: Geodynamic Implications for the Evolution of the Eastern Dharwar Craton, Southern India. *The Journal of Geology*, 127: 000.

7. Subha Anand, S. et al., 2019. Trace elements and Sr, Nd isotope compositions of surface sediments in the Indian Ocean: An evaluation of sources and processes for sediment transport and dispersal. *Geochemistry, Geophysics, Geosystems*, 20(6): 3090-3112.
8. Rahaman, W., Chatterjee, S., Ejaz, T., Thamban, M., 2019. Increased influence of ENSO on Antarctic temperature since the Industrial Era. *Scientific reports*, 9(1): 1-12.
9. Turner, J. et al., 2019. The dominant role of extreme precipitation events in Antarctic snowfall variability. *Geophysical Research Letters*, 46(6): 3502-3511.
10. Gohl, K., Wellner, J.S., Klaus, A., 2019. IODP Expedition 379 Preliminary Report: Amundsen Sea West Antarctic Ice Sheet History. International Ocean Discovery Program.
11. Tarique, M., Rahaman, W., 2018. Assessment of paleo-ocean pH records from boron isotope ratio in the Pacific and Atlantic ocean corals: Role of anthropogenic CO₂ forcing and oceanographic factors to pH variability. *Biogeosciences Discussions*: 1-37.
12. Rahaman, W., Wittmann, H., von Blanckenburg, F., 2017. Denudation rates and the degree of chemical weathering in the Ganga River basin from ratios of meteoric cosmogenic ¹⁰Be to stable ⁹Be. *Earth and Planetary Science Letters*, 469: 156-169.
13. Rahaman, W.R.M.T.C., 2016. Twentieth-century sea ice variability in the Weddell Sea and its effect on moisture transport: Evidence from a coastal East Antarctic ice core record. *The Holocene*(DOI: 10.1177/0959683615609749).
14. Goodbred Jr, S.L. et al., 2014. Piecing together the Ganges-Brahmaputra-Meghna River delta: Use of sediment provenance to reconstruct the history and interaction of multiple fluvial systems during Holocene delta evolution. *Bulletin*, 126(11-12): 1495-1510.
15. Rahaman, W., Goswami, V., Singh, S.K., Rai, V.K., 2014. Molybdenum isotopes in two Indian estuaries: Mixing characteristics and input to oceans. *Geochimica et Cosmochimica Acta*, 141: 407-422.

