

SYED AZHARUDDIN

E-Mail: azhar0606@gmail.com; syed.azharuddin.c4@f.mail.nagoya-u.ac.jp

Contact No: +91-9557812856

Personal Webpage: <https://climatesyed.weebly.com/>

Present Address: Graduate School of Environmental Studies, Nagoya University, Nagoya,
464-8601 Japan

SKILLS

Coastal and Ocean Research, Foraminifera, Marine Biogeochemistry, Carbon and Nitrogen Cycling, Ice Core Science, Speleothem Research, Paleoceanography and Paleoclimatology

RESEARCH OBJECTIVES

Study of past environments using different paleo-proxies in the marine, speleothem and glacial archives.

PRESENT AFFILIATION

Working as a **Postdoctoral Fellow** at Graduate School of Environmental Studies, Nagoya University, Nagoya, Japan.

PAST POSITIONS

- **Postdoctoral Fellow** at Laboratory of Ice Core and Paleoclimate (LICP), School of Earth and Environmental Sciences, Seoul National University, Seoul, South Korea (April 2019 – April 2022).
- **Council of Scientific and Industrial Research Senior Research Fellow (CSIR-SRF)** at Birbal Sahni Institute of Palaeosciences, Lucknow, UP, India (April 2018 - January 2019).
- Department of Science and Technology **Junior Research Fellow** at Birbal Sahni Institute of Palaeosciences, Lucknow, India (January 2014 to November 2016)

EDUCATION

- Doctor of Philosophy (PhD) (2019) entitled “**Late Quaternary oceanographic and climatic reconstructions using foraminifera and sediment geochemical signatures from the northeastern Arabian Sea**” Banaras Hindu University, Varanasi, India.
- Master of Sciences (MSc.) Applied Geology (2013) Aligarh Muslim University, Aligarh, India.
- Bachelor of Sciences (BSc. Hons.) Geology (2011) Aligarh Muslim University, Aligarh, India.
- Senior Secondary School (2008) Aligarh Public School, Aligarh, India.
- High School (2006) Aligarh Public School, Aligarh, India.

AWARDS AND GRANTS

- **Postdoctoral Fellowship** at Laboratory of Ice Core and Paleoclimate (LICP), School of Earth and Environmental Sciences, Seoul National University, Seoul, Korea (April 2019 to April 2022).
- **Berkner Travel Fellowship (Top 12 students/early career scientists)** received full grant for attending American Geophysical Union (AGU) Fall Meeting 2018 at Washington DC during 10-14 December 2018.
- **Council of Scientific and Industrial Research, India (CSIR) Senior Research Fellowship** at Birbal Sahni Institute of Palaeosciences (BSIP), Lucknow, India during May 2018 to January 2019.
- **VolkswagenStiftung** grant to attend the summer school/workshop entitled “**What can we learn from the past into the future? Stable isotopes in ancient and contemporary environments**” held at University of Konstanz, Konstanz, Germany during 15-19 April, 2018.
- **PAGES-OSU travel grant** to attend PAGES OC3 second workshop on “**Ocean Circulation and Carbon Cycling During Last Deglaciation: Regional Synthesis of Carbon Isotope Data**” held at Oregon State University (OSU), Corvallis, OR, US during 27-29 June, 2017.
- **PAGES-ICTP travel grant** to attend CLIVAR-ICTP workshop on “**Decadal Climate Variability and Predictability**” at The International Centre of Theoretical Physics, Trieste, Italy during 16 - 24 November 2015.
- DST, New Delhi Fastrack **Junior Research Fellowship** at BSIP during January 2014 to November 2016.

PUBLICATIONS

International Peer-reviewed Research Articles

- **Azharuddin, S.**, Govil, P.*, Singh, A.D., Mishra, R., Agrawal, S., Tiwari, A.K., Kumar, K. (2017). Monsoon-influenced variations in productivity and lithogenic flux along offshore Saurashtra, NE Arabian Sea during the Holocene and Younger Dryas: A multi-proxy approach. **Palaeogeography, Palaeoclimatology, Palaeoecology**, 483, 136-146. **(Impact Factor- 3.565)**
- Dogar, M. M.*, Kucharski, F., **Azharuddin, S.** (2017) Study of Global and Regional Climatic Impact of ENSO magnitude using SPEEDY AGCM, **Journal of Earth System Science**, 126. **(Impact Factor- 1.912)**
- Govil, P.*, Mazumder, A., Ram, R., Singh, D.S., **Azharuddin, S.** (2018) Meltwater flux and climate change record of last 18.5 ka from Schirmacher Oasis, East Antarctica. **Polar Science** 18, 135-141. **(Impact Factor- 2.355)**
- **Azharuddin, S.**, Govil, P.*, Singh, A.D., Mishra, R., Shekhar, M., (2019) Solar insolation driven periodicities in southwest monsoon and its impact on NE Arabian Sea paleoceanography. **Geoscience Frontiers** 10(6), 2251-2263. **(Impact Factor- 7.483)**

- **Azharuddin, S.**, Govil, P.*, Singh, A.D., Mishra, R., Agrawal, S., (2022) Mid-Holocene intensification of the oxygen minimum zone in the northeastern Arabian Sea. **Journal of Asian Earth Sciences**, 227, 105094. **(Impact Factor- 3.374)**
- Govil, P.*, Mazumder, A., Agrawal, S., **Azharuddin, S.**, Mishra, R., Khan, H., Kumar, B., Verma, D., (2022) Abrupt changes in the southwest monsoon during Mid-Late Holocene in the western Bay of Bengal. **Journal of Asian Earth**, 227, 105100. **(Impact Factor- 3.374)**
- **Azharuddin, S.**, Govil, P.*, Chalk, T. B., Shekhar, M., Foster, G. L., Mishra, R. (2022) Abrupt upwelling and CO₂ outgassing episodes in the North-eastern Arabian Sea since mid-Holocene. **Scientific Reports** 12(1). **(Impact Factor- 4.996)**
- Ambokar, M, Panchang, M., Govil, P., **Azharuddin, S.** (2022) An attempt to understand the implications of finding Peraclis species: A study from the north-eastern Arabian Sea. *Marine Micropaleontology*, (Accepted, In-press) **(Impact factor- 2.102)**
- **Azharuddin, S.**, Ahn, J.*, Brook, E., Ryu, Y., Salehnia, N. (2022) Millennial-scale changes in atmospheric nitrous oxide during the Holocene. **Global Biogeochemical Cycles** (Accepted, In-press) **(Impact Factor- 6.50)**

Technical reports

- **Azharuddin, S.**, Dogar, M.M. (2016). Decadal Climate Variability and Predictability **Current Science** 110(8), 1397-1398. **(Impact Factor- 1.102)**
- Roy, I., Farooqui. S., **Azharuddin, S.**, (2016). Neogene Climate Evolution of Eurasia (NECLIME) **Current science** 111(11):1743-1744. **(Impact Factor- 1.102)**
- Quamar. M.F., Chakraborty, A., **Azharuddin, S.**, (2016). Micropalaeontology and Stratigraphy **Current Science** 110(10), page no.1886. **(Impact Factor- 1.102)**
- **Azharuddin, S.**, Pandey, U., (2016). Quaternary Climate: Recent Findings and Future Challenges, **Current Science** 111(09), 1442-1443. **(Impact Factor- 1.102)**
- Ghaznavi,A.A., **Azharuddin, S.** (2017) Geochemistry, environmental and sedimentary geology, **Current Science** 113 (6), 1021-1022. **(Impact Factor- 1.102)**
- **Azharuddin, S.** (2017). Ocean circulation, carbon cycling during the last deglaciation, **Eos**, 98 <https://doi.org/10.1029/2017EO087785>. Published on 01 December 2017.
- Khan, S., **Azharuddin, S.**, Tripathi, S., (2018) National Conference on Climate Change and Natural Resources: Impact and Sustainable Development in Indian Perspective. **Journal of the Geological Society of India**, 91(5), pp.643-643. **(Impact Factor- 1.466)**

Conference papers

- **Azharuddin, S.**, Govil, P., Singh, A. D. and Mishra, R., Paleooceanographic study during the Holocene over off Saurashtra NE Arabian Sea. **XXV Indian Colloquium**

on Micropalaeontology and Stratigraphy (2015) Aurangabad Maharashtra, India. Abstract Volume page no. 113.

- **Azharuddin, S.**, Govil, P., Singh, A. D. and Mishra, R., Productivity variation pattern in the NE Arabian Sea during the **3rd NECLIME Asian Meeting** (2016) BSIP, Lucknow. Abstract volume page no. 7.
- **Azharuddin, S.**, Govil, P., and Mishra, ., Holocene record of the monsoonal climate and productivity variations in the NE Arabian Sea. **National Conference on Quaternary Climate: Recent Findings and Future Challenges** (2016) National Institute of Oceanography, Goa, India. Abstract Volume Page No. 54.
- **Azharuddin, S.** and Govil, ., Holocene record of productivity collapse during cold periods from the NE Arabian Sea and their global teleconnection with north-Atlantic cold events, **National Seminar on Recent advances and challenges in geochemistry, Environmental and sedimentary geology** (2017) Aligarh Muslim University, Aligarh, India. Abstract volume pp. 22.
- **Azharuddin, S.** and Govil, P., Trends and episodes of southwest monsoon during the Holocene. National Conference on Climate Change and Natural Resource; Impacts and Sustainable Development in Indian Perspective (2018) Centre of Advance studies in Geology, University of Lucknow. Abstract Volume Page No. 6.
- **Azharuddin, S.** and Govil, P., Variation in depositional conditions due to oxygen minimum zone influence in the northeastern Arabian Sea. (2018) **AGU Fall Meeting 2018**, Washington DC, USA.
- **Azharuddin, S.**, and Ahn, J. A review of atmospheric nitrous oxide variation during the Holocene: Motivations for future studies (2019) The 74th Annual Meeting of the Geological Society of Korea At: Jeju Island. Conference proceeding abstract book page no. 62.
- **Azharuddin, S.**, Ahn, J., Yeoungjun Ryu and Ed Brook. A high-resolution record of atmospheric nitrous oxide concentration from the South Pole ice core during the mid-to late Holocene (2020) The 75th Annual Meeting of the Geological Society of Korea (online conference) October 2020.
- **Azharuddin, S.**, Ahn, J., Yeoungjun Ryu and Ed Brook. Climate related variations in atmospheric nitrous oxide concentration during the Mid to Late Holocene (2021). EGU General Assembly 2021 (Online Meeting).

- **Azharuddin, S.**, Ahn, J., Yeoungjun Ryu and Ed Brook. Climate-induced variations in atmospheric nitrous oxide during the Holocene (2021) The 76th Annual Meeting of the Geological Society of Korea , Jeju Island, S. Korea. October 2021.
- **Azharuddin, S.**, Ahn, J., Yeoungjun Ryu and Ed Brook. Millennial-scale changes in atmospheric nitrous oxide during the Holocene (2021) AGU Fall Meeting, New Orleans (online).

OTHER RESPONSIBILITIES/ACHIEVEMENTS

- Reviewing articles for **Journal of Asian Earth Sciences** (Elsevier) and **Journal of Quaternary Science** (Wiley).
- Guest editor for a special volume entitled ‘**Carbon Cycling, Climate Change and Sustainability**’ by **Sustainability** (an open access journal by MDPI).

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