

Curriculum Vitae

Name: Pawan Govil

Date of Birth: 23rd December, 1978

Designation: Scientist "F"

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Academic Record:

- ✓ Ph.D. in Marine Sciences on entitled “**Late Quaternary Paleoceanography of the Northern Indian Ocean**” (Goa University, India), 2004-2008.
- ✓ M.Sc. Applied Geology (Aligarh Muslim University, India), 2002.
- ✓ B.Sc. Geology, Chemistry, Zoology (Aligarh Muslim University, India), 2000.

Career record:

- ✓ 2026 to till date Scientist “F” in Birbal Sahni Institute of Palaeosciences (BSIP), Lucknow.
- ✓ 2021 to 2025, Scientist “E” in Birbal Sahni Institute of Palaeosciences (BSIP), Lucknow.
- ✓ 2017 to 2020, Scientist "D" in Birbal Sahni Institute of Palaeosciences (BSIP), Lucknow.
- ✓ 2012 to 2016, Scientist "C" in Birbal Sahni Institute of Palaeosciences (BSIP), Lucknow.
- ✓ 2011 to 2012, Scientist “B” in Birbal Sahni Institute of Palaeobotany (BSIP), Lucknow.
- ✓ 2006 to 2011, Research Scientist "B" in “Limnological investigation from Antarctic Lakes: Paleoclimatic Implications” project, at National Centre for Antarctic and Ocean Research (NCAOR), Goa.
- ✓ 2002-2006, Project Assistant in the “**BENFAN**” paleoclimate project at the National Institute of Oceanography (NIO), Goa.

Research Interests:

- ✓ Using the planktonic foraminifera (marine micro-organism) to understand the Indian monsoon evolution and the glacial/interglacial and evaporation-precipitation budget in the Indian Ocean. Additionally, by applying planktonic foraminifera stable isotopes and biogeochemical elemental ratios (Mg/Ca) to understand the thermal structure of the Upper Ocean structure within the Quaternary and Neogene.

- ✓ Applying biogeochemical proxies from Antarctica Lake's sediment core to understanding Antarctic climate variability in the late Quaternary. Data generation and publications for Paleoclimatic reconstructions from the Antarctic Lake sediment cores using micropaleontological and geochemical proxies.
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Prizes/Medals/Honors:

- ✓ Received an International Fellowship from **The Matsumae International Foundation Fellowship of Japan** from **1st November, 2024 to 30th April, 2025** (six months) at JAMSTEC and AORI, University of Tokyo, Japan.
 - ✓ The Paleontological Society of India conferred on me the **Mani Shankar Shukla Gold Medal** award in recognition of my outstanding contributions to Micropaleontology. The award ceremony was held at the Geology Department, Lucknow University, on 24 September 2015.
 - ✓ **DAAD fellowship** from June to December 2005, at MARUM, Bremen University, Germany.
 - ✓ **First poster presentation award** for the paper entitled “Quantification of paleo sea surface temperature and sea surface salinity in the Bay of Bengal: Response of monsoon fluctuations” in National Conference in Goa on October 22-23, 2009.
 - ✓ **Selected as a Micropaleontologist in Integrated Ocean Drilling Program (IODP) CHIKYU Expedition 322** from 1st September to 10th of October 2009 in the Nankai Trough Subduction Zone area in the northwestern Pacific Ocean.
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Professional attributes (Scientific Cruise Participation):

- ✓ Participated as a member of the summer **35th Indian Scientific Expedition to Antarctica (ISEA)** to Antarctic Indian station Maitri and Larsemann Hills from November 2015 to February 2016.
 - ✓ Participated as a member of the summer **32nd Indian Scientific Expedition to Antarctica (ISEA)** to Antarctic Indian station Maitri and Larsemann Hills from November 2012 to February 2013.
 - ✓ Participated in **Integrated Ocean Drilling Program (IODP) CHIKYU Expedition 322** from 1st September to 10th October 2009 in the Nankai Trough Subduction Zone area in the northwestern Pacific Ocean (Near Japan).
 - ✓ Participated as a member of the summer **26th Indian Scientific Expedition to Antarctica (ISEA)** to Antarctic Indian station Maitri and Larsemann Hills from January to April 2007.
 - ✓ Participated in **cruise SK-187** in the Arabian Sea and Bay of Bengal from 23rd January to 17th February 2003. *Was personally involved in the assembly and operation of the Piston Corer throughout the 24-day expedition.*
 - ✓ Collected Surface Water Sample from Andaman Sea during 7th May to 22nd May, 2004.
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Professional Scientific Memberships:

- ✓ Palaeontological Society of India (Life member)
- ✓ Indian Science Congress Association (Life member)
- ✓ Paleontological Society of India (Life member)

Training Experience:

- ✓ Participated as a member of the summer 35th Indian Scientific Antarctic Expedition (ISAE) to Antarctic Indian station Maitri and Larsemann Hills from November 2015 to March 2016. The sediment core was collected during this expedition for the paleoclimate reconstruction.
- ✓ Participated as a member of the summer 32nd Indian Scientific Antarctic Expedition (ISAE) to Antarctic Indian station Maitri and Larsemann Hills from November 2012 to March 2013. The sediment core was collected during this expedition for the paleoclimate reconstruction.
- ✓ Training course in GEO-INDIA 2011 for Depositional Systems and Facies Analysis: Utility in Petroleum System Analysis, in New Delhi, January 2011.
- ✓ Training for 2 months in Physical Research Laboratory, Ahmedabad, for TL/OSL dating from the sediment core samples from Antarctica, from June 2010 to July 2010.
- ✓ Participate as a MICROPALAEONTOLOGIST in Integrated Ocean Drilling Program (IODP) CHIKYU Expedition 322 from 1st September to 10th of October 2009 in Nankai Trough Subduction Zone area in the northwestern Pacific Ocean (Near Japan).
- ✓ Participated as a member of the summer 26th Indian Scientific Antarctic Expedition (ISAE) to Antarctic Indian station Maitri and Larsemann Hills from January to April 2007. The sediment core was collected during this expedition for the paleoclimate reconstruction.
- ✓ Using and learning process of the Mg/Ca Elemental ratios from Planktonic Foraminifera as a proxy for reconstructing past sea surface temperature from the northern Indian Ocean under the DAAD Fellowship program from June to November 2005 in Bremen University, Germany.
- ✓ Shipboard training in Geological sampling and geophysical surveying instruments, including *assembling and operating of Piston Corer* and Multi-sensor core logger, Echosounder, Global Positioning System, and Spade Corer. Many sediment cores have been collected from the northern Indian Ocean during this scientific cruise. Participated in **cruise SK-187** in the Arabian Sea and Bay of Bengal in 2003.

Student Guidance/Summer Internship/Dissertation:

1. Ms. Madhu Singh (2024). Processing and inferences of elemental geochemistry from marine sediment core samples. A summer internship report for the M.Sc. chemistry department at the University of Lucknow, Lucknow.
2. Ms. Amrita Nigam (2024). Planktic Foraminiferal productivity variations from the Eastern Equatorial Indian Ocean: Palaeoceanographic implication. A Dissertation Report for M.Sc. for Department of Geology, Babasaheb Bhimrao Ambedkar University, Lucknow.

3. Umar Farooque (2018). Paleoclimatic studies using elemental geochemistry from the lake sediments of Schirmacher Oasis, East Antarctica. M.Tech (Petroleum Exploration), Indian Institute of Technology (Indian School of Mines) Dhanbad.
4. Emmanuel Barreto (2010). Study of core sediment samples from Antarctica Lake. B.Sc., Fergusson College, Pune.
5. Shalini Sharma (2009). Study of diatoms and quartz grains from freshwater lake core sediments, Larsemann Hill, Antarctica, and their paleoclimatic implications. M.Sc. (Tech.), Banaras Hindu University, Banaras.
6. Sandeep Kumar (2009). Paleoclimatic studies of two lakes sediment cores from Larsemann Hill, Antarctic based on geochemical proxies. M.Sc. (Tech.), Banaras Hindu University, Banaras.
7. P.S. Vijay Kumar (2008). Sedimentary analysis of glacial samples near Maitri station, Schirmacher Oasis, Antarctica. Int. M.Sc., Indian Institute of Technology, Kharagpur.
8. S.V. Nagendra Bharadwaz (2008). Sedimentary analysis of Antarctic-lake core sediments, Larsemann Hills. Int. M.Sc., Indian Institute of Technology, Kharagpur.

Supervisor of Ph.D. student

Sr. No	Name of the Student	Duration	Affiliation	Ph.D. Title	Status
1	Dr. Syed Azharuddin	2014-2019	Birbal Sahni Institute of Palaeosciences Lucknow, and Banaras Hindu University, Varanasi	Late Quaternary Oceanographic and climatic reconstructions based on foraminifera and sediment geochemical signatures from the Northeastern Arabian Sea	Awarded
2	Dr. Hidayatullah	2020 to 2024	Birbal Sahni Institute of Palaeosciences Lucknow, and	Reconstruction of Palaeoceanography of tropical Indian Ocean since Marine Isotopic Stages 5	Awarded
3	Mr. Brijesh Kumar	2020 to 2025	Birbal Sahni Institute of Palaeosciences Lucknow, and	Late Quaternary paleoceanographic Reconstructions from equatorial Indian Ocean: emphasis on Indian Ocean dipole	Awarded
4	Ms. Divya Verma	2020 to 2026	Birbal Sahni Institute of Palaeosciences Lucknow, and	High-resolution reconstruction of paleoceanography of southwest Indian Ocean during Late Quaternary	Awarded
5	Dr. Shivani Pathak (CSIR-RA)	2025 to date	Birbal Sahni Institute of Palaeosciences		Ongoing

			Lucknow		
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Sponsored Project:

1. Under the fast-track scheme for the young scientists at the Department of Science and Technology (DST) project entitled "**High resolution paleoclimatic and paleoceanographic study on the eastern Arabian Sea off Saurashtra based on foraminifera and their geochemical signature**" has been completed from November 2013 to November 2016. One JRF (Mr. Syed Azharuddin) was appointed to this project and enrolled for a Ph.D. from the Geology Department, Banaras Hindu University, Varanasi.

Publications:

Citation: 885 (By Google Scholar:

<https://scholar.google.com/citations?user=PLDdwsWAAAAJ&hl=en>

Book Chapters/Memoirs/Bulletins

- **Govil, P***. and Mazumder, P. 2022. A Review of the paleoclimatic Studies from Lake Sediments of Schirmacher Oasis, East Antarctica. In Khare, Nelay (Eds). *Assessing the Antarctic Environment from a Climate Change Perspective* pp.107-126.

Papers (Palaeoceanographic/Marine/Terrestrial Research):

1. Singh, P., Murari, M.K., Ali, S.N., Pandey, S.K., **Govil, P.**, Sensarma, S., Kumar, K., Prizomwala, S., Sharma, A., Roy, I., Jayangondaperumal, R., Ranhotra, P., Prakash, K., Morthekai, P. (2026). Dating feldspar micro-inclusions within quartz emphasizing on the dose rate: An alternate way to date Himalayan Quaternary deposits, **Quaternary Geochronology**. <https://doi.org/10.1016/j.quageo.2026.101757>.
2. Alam, M., Muguli, T., Gurumurthy GP., Khan, F.A., **Govil, P.** and Sharma, A. (2026). Trace Elements (Mg, Ca and Sr) Measurements in Marine Carbonates for Palaeothermometry: A Method Validation Using Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). **Journal of Palaeosciences**, 1-15. DOI: 10.1177/29790867261439589.
3. Verma, D., **Govil, P***., Agrawal, S., Morthekai, P., Kumar, B., and Khan, H. (2025). Late Quaternary productivity and hydrographic variability in the upper water column of the Agulhas Return Current region as inferred from planktic foraminifera. **Quaternary International**, 740, 109894.

4. Kumar, B., **Govil, P***, Agrawal, S., Kumar, P., Verma, D., and Khan, H. (2025). Western equatorial Indian Ocean surface hydrographic variations inferred from isotopic record of planktic foraminifera *Globigerinoides ruber* during last~ 412,000 years. **Journal of Earth System Science** 134, no. 1 (2025): 58.
5. Kumar, B., **Govil, P***, Verma, D., and Khan, H. (2025). An Appraisal of Indian Ocean Dipole variability and its linkage with ENSO: Future perspective” **Journal of Environmental Biology** 46 (5), pp. 625-634.
6. Khan, H., **Govil, P***, Panchang, R., Agrawal, S., Kumar, P., Kumar, B., and Verma, D. (2024). Abrupt intensification of AMOC and monsoonal winds during the mid-MIS4 (Heinrich Event 6) in the western Arabian Sea. **Global and Planetary Change**, 235, 104398.
7. Khan, H., **Govil, P***, Panchang, R., Agrawal, S., Kumar, P., Kumar, B. and Verma, D. (2023). Surface and thermocline ocean circulation intensity changes in the western Arabian Sea during ~172 kyr. **Quaternary Science Reviews**, 311, 108133. <https://doi.org/10.1016/j.quascirev.2023.108133>.
8. Ambokar, M., Panchang, R., **Govil, P.** and Azharuddin, S. (2023). A first account of pteropod taxa from off Saurashtra, western offshore of India: Implications for palaeohydrological studies. **Journal of the Palaeontological Society of India**, 68 (2), 243-249.
9. Ansari AH, Pandey SK, Ahmad S, Sharma M, **Govil P**, Chaddha AS, and Sharma A (2023). High primary productivity in an Ediacaran shallow marine basin influenced by strong seasonal to perennial upwelling. *Geological Magazine* 160: 1607–1623. <https://doi.org/10.1017/S0016756823000614>
10. Verma, D., **Govil, P***, Kumar, B., and Khan, H. (2023). Variation in dynamics controls and impacts of Agulhas Leakage through Late Pleistocene: A Review. **Journal Of Palaeosciences**, 72, 43-54.
11. Ambokar, M., Panchang, R., **Govil, P.** and Azharuddin, S. (2022). Implications of findings *Peraclis* spp. In the Holocene sediments of the northeastern Arabian Sea. **Marine Micropaleontology**, 177, 102182.
12. Khan, H., **Govil, P***, Panchang, R., Kumar, P., Agrawal, S. (2022). Surface hydrographic variations in the western Arabian Sea through the last 172 kyr. **Geo-Marine Letters**, 42:10. <https://doi.org/10.1007/s00367-022-00733-y>.
13. **Govil, P***, Mazumder, A., Agrawal, S., Azharuddin, S., Mishra, R., Khan, H., Kumar, B. and Verma, D. (2022). Abrupt changes in the southwest monsoon during Mid-Late Holocene in the western Bay of Bengal. **Journal of Asian Earth Sciences**, 227, 105100. <https://doi.org/10.1016/j.jseaes.2022.105100>. (IF: 3.4).
14. Phartyial, B., Ali, S.N., Sharma, A., Agrawal, S., Nag, D., Tiwari, P., Kumar, M., Morthekai, P., **Govil, P.**, Thakur, B., Bhushan, R., Jena, P. S., and Shivam, A. (2022). Palaeoclimatic variability during last eight millennia from a morainal lake in Zaskar, northwest Himalaya, India. **Journal of Palaeosciences**, 71, 75-88.
15. Azharuddin, S., **Govil, P***, Singh, A.D., Mishra R. and Agrawal, S. (2022). Mid-Holocene intensification of the oxygen minimum zone in the northeastern Arabian Sea. **Journal of Asian Earth Sciences**, 227, p.105094 (IF: 3.4). <https://doi.org/10.1016/j.jseaes.2022.105094>. (IF: 3.4).

16. Azharuddin, S., **Govil P***, Thomas B. C., Shekhar, M., Gavin L. F. and Mishra, R. (2022). Abrupt upwelling and CO₂ outgassing episodes in the north-eastern Arabian Sea since mid-Holocene. **Scientific Reports** 12(1), pp.1-12. (IF: 4.3).
17. Ali, S. N., Agrawal, S., Sharma, A., Phartiyal, B., Morthekai, P., **Govil, P.**, & Shivam, A (2020). Holocene hydroclimatic variability in the Zaskar Valley, Northwestern Himalaya, India. **Quaternary Research**, 1-17.
18. Ansari, A. H., Ahmad, S., **Govil, P.**, Agrawal, S., & Mathews, R. P. (2020). Mo-Ni and organic carbon isotope signatures of the mid-late Mesoproterozoic oxygenation. **Journal of Asian Earth Sciences**, 191, 104201.
19. Manoj, M., Singh, A., Verma, P., **Govil, P.**, Kawsar, M., Uddandam, R. P., & Prasad, V (2020). Marine Micropalaeontology: An Overview of Indian Contributions during 2016-2019. In **Proc Indian Natn. Sci. Acad.** (Vol. 86, No. 1, pp. 419-444).
20. 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: 4.20)
21. Naidu, P.D. and **Govil, P.**, (2017). Monsoon Could Trigger the Global Abrupt Climate Changes: New Evidence from the Bay of Bengal. **J. Ind. Geophys. Union**, v.21, no.4, pp: 285-291.
22. 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: 2.578)
23. Mazumder, A., Khare, N., & **Govil, P.**, (2016). Statistical approach to correlate the morphological variations in foraminifera *Neogloboquadrina Pachyderma* with the hydrological parameters in surface sediment along NS transect in SW Indian Ocean. **International Journal of Earth Sciences and Engineering**, vol. 9 (3), 966-972.
24. Hayashi, H., Yamashita, K., **Govil, P.**, Idehara, Y., Tanaka, T., and Nishi, H., (2014). Data report: middle Miocene to Pliocene planktonic foraminiferal biostratigraphy of the northern part of the Shikoku Basin, IODP Exp. 322 Site C0012. In Saito, S., Underwood, M.B., Kubo, Y., and the Expedition 322 Scientists, Proceedings of the Integrated Ocean Drilling Program, 322: Tokyo (**Integrated Ocean Drilling Program Management International, Inc.**)
<http://dx.doi.org/10.2204/iodp.proc.322.206.2014>
25. Mazumder, A., Khare, N. & **Govil, P.** (2014). The interdependency of the morphological variations of the planktonic foraminiferal species *Globigerina bulloides* in surface sediments on the environmental parameters of the southwestern Indian Ocean. **International Scholarly Research Notices**, DOI: dx.doi.org/10.1155/2014/621479.
26. Khare, N., Mazumder, A. and **Govil, P.** (2012). Do changes in coiling directions in Planktonic Foraminifera correspond to dimorphic reproduction? **Oceanology**, 52 (3), 1-8. (IF: 0.324)

27. **Govil, P*.,** and Naidu, P.D*., (2011). Variations of Indian monsoon precipitation during the last 32 kyr reflected in the surface hydrography of the western Bay of Bengal. **Quaternary Science Reviews**. Vol. 30 (27-28), 3871-3879. (IF: 4.657)
28. Khare, N., **Govil, P.,** Kumar, P., Mazumder, A., Chopra, S., Pattanaik, J.K., Balakrishnan, S. and Roonwal, G.S. (2011). ^{10}Be as paleoclimatic tracer: initial results from southwestern Indian Ocean sediments. **J. Radioanal. Nucl. Chem.**, doi: 10.1007/s10967-011-1218-4. (IF: 0.77)
29. **Govil, P*.,** and P. D. Naidu (2010). Evaporation-precipitation changes in the eastern Arabian Sea for the last 68 ka: Implications on monsoon variability. **Paleoceanography**, 25, PA1210, doi:10.1029/2008PA001687 . (IF: 4.03)
30. Khare, N., Mazumder, A., **Govil, P.** (2010). Abundance and coiling direction in planktic species *Neogloboquadrina pachyderma* (Ehrenberg) as indicators of hydrological conditions: Evidence from N-S transect of Indian Ocean. **Current Science**, 98 (8), 1108-1112. [IF: 0.897]
31. Naidu, P.D*., and **Govil, P.** (2010). A new Evidence on sequence of deglacial warming in the tropical Indian Ocean. **J. of Quaternary Science**. doi: 10.1002/jqs.1392. (IF: 3.199)
32. Prakash Babu, C., Pattan, J. N., Dutta, J.N.K., Basavaiah, N., Ravi Prasad, G. V., Ray, D.K., **Govil, P.** (2010). Shift in detrital sedimentation in the eastern Bay of Bengal during the late Quaternary. **J. Earth Syst. Sci.** 119, No. 3, 285–295. (IF: 0.941)
33. Naik, S.S., Naidu, P.D., **Govil, P.** and Godad, S. (2010) Relationship between Weights of Planktonic Foraminifer Shell and Surface Water CO_3 : Concentration during the Holocene and Last Glacial Period. **Marine Geology**, doi:10.1016/j.margeo.2010.05.004. (IF: 2.517)
34. Khare, N., **Govil, P.,** and Mazumder, A. (2009). An assessment of the latitudinal changes in morphological characteristics of planktic species *Neogloboquadrina Pachyderma* (Ehrenberg) along North-South transect in South Western Indian Ocean. **Geo-Marine Lett.**, 29 (1), 61-69. (IF: 1.552)
35. Khare, N., Mazumder, A., **Govil, P.,** and Singh, V.P. (2009). Trend in Chamber Accretion of *Neogloboquadrina Pachyderma* (Ehrenberg) along N-S transect in Indian Ocean Sector of Southern Ocean. **J. of Geological Society of India** 73, 379-385. (IF: 0.355)
36. Mazumder, A., Khare, N., **Govil, P.,** (2009). Cosmopolitanism of the planktic foraminiferal species *Globigerinita glutinata*- A testimony by Q-mode cluster analysis. **Int. J. of Geology**, vol 3 (1), 1-7.
37. Khare, N., **Govil, P.,** Mazumder, A. and Saraswat, R. (2009). “Dakshini Mahasagar main Soochm Jiwasmi anveshan: Bhartiya Yogdaan” In: Jalwayu Parivartan (Eds.) Manjula Mehta. Publis. Vigyaan Mantralaya. pp. 83-91.
38. **Govil, P.,** and Naidu, P.D.* (2008). Late Quaternary changes in depositional processes along the western margin of the Indus Fan. **Geo-Marine Lett.**, 28, 1-6. (IF: 1.186)
39. Khare, N., Mazumder, A., and **Govil, P.** (2007). Climate Change – Role of proxies for paleoclimatology. **Proc. A. P. Akademi of Sciences, Hyderabad**, vol.11, no.4, pp.291-304.

40. **Govil, P.**, Naidu, P.D., and Radhika. T.K. (2004). Major Turbidity Flows in the Western Indus Fan between 290 and 360 kyr. **Current Science**, 87 (11), 1597-1600. (IF: 0.60)

Papers (Polar/Antarctic Research):

41. Mazumder, A., **Govil, P.**, Sharma, S., Kar, R. (2026). Diatom-based record of past sea-level changes from a lake of Vestfold Hills area, East Antarctica. **International Journal of Limnology**, 62, 7.
42. **Govil, P***, Mazumder, A., Ram, R., Singh, D. S., & Azharuddin, S. (2018). Melt water flux and climate change record of last 18.5 ka from Schirmacher Oasis, East Antarctica. **Polar Science**, 18,135-141.
43. Kar, R., Mazumder, A., Mishra, K., Patil, S. K., Ravindra, R., Ranhotra, P. S., **Govil, P.**, Bajpai, R. & Singh, K. (2018). Climatic history of Ny-Alesund region, Svalbard, over the last 19,000 yr: Insights from quartz grain microtexture and magnetic susceptibility. **Polar Science**, 18, 189-196.
44. Raza, M. A., Saraswat, R., Bhadra, S. R., Naik, D. K., Khare, N., **Govil, P.**, & Mazumder, A. (2018). Inverted sediments in the coastal Antarctic lake: Evidence of paleostorm. **Polar Science**, 18, 213-219.
45. Srivastava, H. B., Shrivastava, P. K., Roy, S.K., Beg, M.J., Asthana, R., **Govil, P.**, Verma, K., (2018). Transition in Late Quaternary paleoclimate in Schirmacher region, East Antarctica as revealed from Lake Sediments. **Journal of geological society of India**, 91, 651-663.
46. Mazumder, A., **Govil, P.**, Kar, R., Gayathri, N.M., Raghuram (2017). Paleoenvironments of a proglacial lake in Schirmacher Oasis, East Antarctica: Insights from quartz grain microtextures. **Polish Polar Research**, 38 (1), 1-19. DOI: 10.1515/popore-2017-0002. (Impact Factor: 0.636).
47. **Govil, P***, Mazumder, A., Asthana, R., Tiwari, A., & Mishra, R. (2016). Holocene climate variability from the lake sediment core in Schirmacher Oasis region, East Antarctica: Multiproxy approach. **Quaternary International**, 425, 453-463. <http://dx.doi.org/10.1016/j.quaint.2016.09.032>. (Impact Factor: 2.067).
48. Mazumder, A., **Govil, P.**, Sharma, S., Ravindra, R., Khare, N. & Chaturvedi, S. K. (2013). A testimony of detachment of an inland lake from marine influence during the mid-Holocene in the Vestfold Hills region, East Antarctica. **Limnological Review**, vol. 13, no. 4, pp. 209-214.
49. Mazumder, A., **Govil, P.**, Ravindra, R., & Khare, N. (2013). Indication of colder condition within Holocene period in a freshwater lake in Vestfold Hills area, East Antarctica region. **Geosciences Journal**, vol. 17, no. 2, pp. 235-239. (Impact Factor: 1.095)
50. Mazumder, A. & **Govil, P.** (2013). Signature of warmer Late Holocene around Vestfold Hills, East Antarctica. **Canadian Journal of Basic and Applied Sciences**, vol. 1, no. 1, pp. 33-43.
51. Mazumder, A., **Govil, P.**, Ghosh, A.K., Ravindra, R. (2012). Significant research on diatom in Antarctica lake during last decade. **J. Algal Biomass Utln.**, vol. 3, no. 4, pp. 74-79.
52. **Govil, P***, Asthana, R., Mazumder, A. and Ravindra, R., (2012). Grain size distribution and its influence on biological productivity during Holocene in a fresh

- water lake in Larsemann Hills, Antarctica. **National Academy of Science Letters**, 35(2), 115-119. (IF: 0.173)
53. **Govil, P.***, Mazumder, A., Tiwari, A.K., Kumar, S., (2011). Holocene climate variability from the lake sediment core in Larsemann Hills, Antarctica. **Journal of Geological Society of India**. Vol. 78. Pp. 30-35.
 54. **Govil, P.***, Mazumder, A., Chaturvedi, S.K., Khare, N., Srivastava, R., Raina, R., Wanganeo, A., Ravindra, R., and Saraswat, R., 2007. "Antarctica ki Jheelon ka Bhoo-Bhoutikiya sarvekshan" In: Antarctica Abhiyan Razat Jayanti. (Eds.) Manjula Mehta. Publis. Vigyan Mantralaya. pp. 63-70.

Conference/Seminar/Workshops/presentations:

1. Kumar B., and **Govil P.***, 2024. Long-term variability in the mixed layer and thermocline in the Equatorial Eastern Indian Ocean: Influence of wind and ocean circulation. Presented at the 2024 ICMS Delhi (Conference Paper).
2. Kumar, B., and **Govil, P.***, 2024. Abrupt changes in the Western Equatorial Indian Ocean subsurface hydrography (thermocline) during the MIS 10 and MIS 8" 2024 IAS BSIP, Lucknow (Conference Paper).
3. Verma, D, and **Govil, P.***, 2022. "Paleo-productivity Variation Based on Planktic Foraminifera Record from Agulhas Plateau IODP Site U1475." presented at the 1st Indian Quaternary Congress (IQC), Jan. 2022, pp. 36.
4. Verma, D. and P. **Govil, P.***, 2022. "Late quaternary oceanographic and climatic variations based on the planktic foraminiferal record at IODP U1475, southwest Indian Ocean." presented at the 28th Indian Colloquium on Micropaleontology and Stratigraphy (ICMS), May 2022, pp. 25.
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