

PRAKASAM M. ,WIHG, DEHRADUN, INDIA



Google Scholar Page: <https://scholar.google.com/citations?hl=en&user=ttXfaYcAAAAJ>

RESEARCH GROUP: BIOSTRATIGRAPHY GROUP

FIELD OF SPECIALIZATION: Paleoclimatology, Paleoceanography, Micropaleontology, Indian monsoon, Stable Isotopes and Geochemistry

EDUCATION:

- 2017 Ph.D. Indian Institute of Technology (IIT), Kharagpur
- 2008 M. Tech. Indian School of Mines (IIT-ISM), Dhanbad
- 2006 M. Sc. National College (Bharathidasan University), Tiruchirapalli
- 2004 B.Sc. National College (Bharathidasan University), Tiruchirapalli

PROFESSIONAL EXPERIENCE:

Scientist-‘B’, Wadia Institute of Himalayan Geology, Dehradun (Aug, 2011-continue)

VISITING POSITIONS:

Worked as INSA Visiting Scientist Fellow at Centre for Earth Sciences, IISC Bangalore during Dec. 2017 to March. 2018.

TEACHING EXPERIENCE: NIL

SERVICES:

1. Worked as a Sector Magistrate during the Indian General Election-2019 (Dehradun, Uttarakhand).
2. Worked as an Additional Sector Magistrate and as a Micro-Observer during the General Election and counting of Legislative Assembly of Dehradun, Uttarakhand State in 2017.

a. Supervision/Guidance to Ph.D. Students: NIL

b. Training:

2019 - Supervised and provided a month of training to *Dr. Mohan, K.* (Asst. Prof., VIT, Chennai) under the INSA Visiting Scientist Fellowship 2018-2019 program, and worked on stable isotope geochemistry of foraminifera by using Kiel Carbonate IV coupled with MAT 253 Plus.

Provided a month training to the M. Sc students namely, *Mrs. Gargee Vyas* (Winter Trainee), *Mrs. Reshma S. Jacob* and *Mr. Pranjit Paul* (Summer Trainee) on stable isotope and paleoclimate research.

2018 - Ms. M. Jeeva and S. Bhagyalakshmi (M. Sc) from Department of Applied Geology, Anna University (Chennai) and Ms. Ayushi Juyal (M. Sc) from SGRRCHS, Dehradun had completed one month summer training program under my supervision.

2017 - Ms. P. Apoorva Ashok (M. Sc) from Department of Geology, M. S. University (Baroda) and Mr. Suyesh Gupta (B. Tech) from Birla Institute of Technology, Hyderabad had completed two months summer training program under my supervision.

2016 - Mr. Mukesh Kadian (M. Sc) from Department of Geology, Kurukshetra University Kurukshetra had completed one-month summer training program under my supervision.

c. Teaching: NIL

d. Membership:

Life member of Himalayan Geology

e. Editorial Board: NIL

f. International/National Seminars/Workshop:

- One of the convenor in the Geo-Research Scholars Meet-2016 (NGEOSM-2016) at Wadia Institute of Himalayan Geology, Dehradun, 1-4 June 2016.
- Rapporteur in Technical Session-2 during the 24th Indian Colloquium on Micropaleontology and Stratigraphy (XXIV ICMS) organised by Wadia Institute of Himalayan Geology, Nov. 2013.

g. External Research Fund received & Project Handled: NIL

h. Member of important Committees:

Current WIHG Committees:

Member of Museum Advisory Committee.

Member of AMC/CAMC Committee.

AWARDS/FELLOWSHIPS/HONORS/MEMORIAL LECTURES:

a. Awards/Medals/Prizes:

9/2018 ➤ Recipient of IPODS/OC3 2018 Travel award (\$ 750) from INQUA/PAGES.

8/2013 ➤ Recipient of KRTA Travel Award (€ 500) from EGU to attend EGU GA-2013 in Vienna.

2010 ➤ Best Poster Presentation in MABPSAP National Conference, Tiruchirapalli.

b. Fellowships:

7/2017 ➤ Received Indian National Science Academy (INSA) Visiting Scientist Fellowship-2017.

2008-2011 ➤ Institute Senior Research Fellow (SRF) with Fellowship in IIT-Kharagpur.

7/2006-6/2008 ➤ MHRD Fellowship for M. Tech course in Indian School of Mines.

c. Memorial Lectures: NIL

d. Recognition/Honors:

COUNTRIES VISITED:

- 2018 United Kingdom: OC3: Ocean circulation and carbon cycling during the last deglaciation: global synthesis, held during 06-09 September 2018 in Cambridge.
- 2015 Italy: CLIVAR-ICTP Workshop on Decadal Variability and Predictability, held during 16-24 November 2015 in Trieste.
- 2013 Austria: EGU General Assembly, held during 7-12 April 2013 in Vienna.

NATIONAL/INTERNATIONAL (outside WIHG) COLLABORATION:

Inside WIHG Collaborator: Drs. Narendra K. Meena, Sudipta Sarkar, Kapesa Lokho, Suman Rawat

PATENT: NIL -

SCHOLARSHIPS AWARDED, GATE

- 12/2009 Qualified National Eligibility Test (NET) Lectureship Examination.
- 2006 Qualified Graduate Aptitude Test in Engineering (GATE-2006).
- 2004 – 2006 Recipient of ONGC merit scholarship during Master's degree (M. Sc).

PH.D. ADVISOR(S): NIL

LIST OF PUBLICATIONS

(a) SCI Papers

1. Saravanan, P., Gupta, A.K., Zheng, H., Panigrahi, M.K., Tiwari, S.K., Rai, S.K., **Prakasam, M.** 2019. Response of shallow-sea benthic foraminifera to environmental changes off the coast of Goa, eastern Arabian Sea, during the last~ 6100 cal yr BP. *Geological Magazine*, pp.1-9.
2. Saravanan, P., Gupta, A.K., Zheng, H., Panigrahi, M.K., **Prakasam, M.** 2019. Late Holocene long arid phase in the Indian subcontinent as seen in shallow sediments of the eastern Arabian Sea. *Journal of Asian Earth Sciences*, 181, p.103915.
3. Meena, N.K., **Prakasam, M.**, Bhushan, R., Sarkar, S., Diwate, P., Banerji, U. 2017. Last-five-decade heavy metal pollution records from the Rewalsar Lake, Himachal Pradesh, India. *Environmental Earth Sciences.*, 76, 39. doi:10.1007/s12665-016-6303-0
4. Sarkar, S., **Prakasam, M.**, Banerji, U.S., Bhushan, R., Kumar, P., Meena, N.K. 2016. Rapid sedimentation history of Rewalsar Lake, Lesser Himalaya, India during the last fifty years-estimated using ¹³⁷Cs and ²¹⁰Pb dating techniques: A comparative study with other North-Western Himalayan Lakes., *Himalayan Geology.*, 37 (1), 1-7.
5. Gupta, A.K., Yuvaraja, A., **Prakasam, M.**, Clemens, S.C., Velu, A. 2015. Evolution of the South Asian monsoon wind system since the late Middle Miocene., *Palaeogeography, Palaeoclimatology, Palaeoecology.*, 438, 160-167.
6. Singh, D.S., Gupta, A.K., Sangode, S.J., Clemens, S.C., **Prakasam, M.**, Srivastava, P., Prajapati, S.K. 2015. Multiproxy record of monsoon variability from the Ganga Plain during 400-1200 A.D., *Quaternary International.*, 371, 157-163.

(b) Non-SCI Articles

1. Sahoo, P.R., Prasad, J., **Prakasam, M.**, Singh, S., Venkatesh, A.S. 2010. Orogenic gold mineralization in and around Kundarkocha, east Singhbhum, Jharkhand, *J. Indian Acad. Geosci.* 52, 11–18.

(c) Chapter in Books

1. Gupta, A.K., **Prakasam, M.**, Dutt, S., Clift, P.D. and Yadav, R.R. 2020. Evolution and Development of the Indian Monsoon. In *Geodynamics of the Indian Plate* (pp. 499-535). Springer, Cham.

(d) Books-authored/Edited volume: NIL

(e) Abstract volume: (Last 5 Years)

- 2019** *Prakasam M.*, Miocene paleoenvironmental reconstruction: a multi-proxy approach from the Bhubhan Group, Mizoram, Indo-Burma Range. 27th Indian Colloquium on Micropaleontology and Stratigraphy, BHU (Varanasi), 4-6 November 2019 (Published).
- Thena, T., Mohan, K. *Prakasam, M.* Benthic foraminiferal stable isotopic signatures from gas hydrate bearing sediments of Cascadia Margin. 27th Indian Colloquium on Micropaleontology and Stratigraphy, BHU (Varanasi), 4-6 November 2019 (Published).
- Nirmal, B., Mohan, K. *Prakasam, M.* Oxygen Isotope anomalies and Agulhas spillover in South Atlantic sector of Southern Ocean. 27th Indian Colloquium on Micropaleontology and Stratigraphy, BHU (Varanasi), 4-6 November 2019 (Published).
- Thena, T., Mohan, K., Saravanan, K., *Prakasam, M.* Deep-sea benthic foraminifera as tracers of bottom water oxygen condition in the Cascadia Margin, NE Pacific Ocean. 2nd International Conference on GEM-2019, Christ College, Thrissur, 17-19 January 2019 (Poster).
- 2018** *Prakasam M.*, Sarkar, S., Meena, N. K. Indian monsoon variations during the Meghalayan age: results from the Rewalsar Lake, H.P., India. Joint TWAS-DCCC workshop on Climate Change, Indian Institute of Science (Bangalore), 5-7 December 2018 (Poster).
- Prakasam M.*, Sarkar S., Rai S. K., Mohan K. Late Cenozoic climate variability and Himalayan weathering: IODP drilling in the Andaman Sea. IODP Proposal Nurturing Workshop – SPADE, NCAOR (Goa), 17-18 September 2018 (Oral).
- Mohan K., Saravanan K., *Prakasam M.* Paleotemperature variations of the Andaman Sea since Pliocene: carbonate clumped isotope and stable isotope records. IODP Proposal Nurturing Workshop – SPADE, NCAOR (Goa), 17-18 September 2018 (Poster).
- Prakasam M.*, Prosenjit Ghosh, Divya Mishra. Abrupt climatic and oceanographic changes in the NW Arabian Sea during the last 70 kyr: geochemical and foraminiferal evidences. Joint IPODS-OC3 workshop on investigating past ocean dynamics Cambridge (United Kingdom), 6-9 September 2018 (Lightning Talk/Poster).
- Prakasam M.*, Prosenjit Ghosh, Divya Mishra. Late Quaternary climatic and oceanographic changes: faunal and isotopic ($\delta^{13}\text{C}$, $\delta^{18}\text{O}$, Δ_{47}) evidences from the NW Arabian Sea. “Impacts of sea-level rise from past to present (iSLR18), Utrecht (The Netherlands), 26-29 August 2018 (Poster).
- Prosenjit Ghosh, *Prakasam M.*, Divya Mishra. Enhanced freshwater flux near Oman coast post LGM revealed analyzing clumped isotopes on Globigerinoides ruber and Orbulina Universa from ODP Hole 727B. Goldschmidt 2018, 12-17 August 2018. Boston (USA) (Oral).
- Prakasam M.*, Prosenjit Ghosh, Divya Mishra. Paleoclimate and paleotemperature changes in the NW Arabian Sea during the last 60,000 years. National Conference on Earth System Science with special reference to Himalaya: advancement and challenges, WIHG, Dehradun, 16-18 May 2018. (Poster).
- Sarkar S., *Prakasam M.*, Meena N. K. Grain size effect on multi-element concentrations closely linked to instrumental record of precipitation during the past fifty years in the sediments from Rewalsar Lake, H.P., India. National Conference on Earth System Science with special reference to Himalaya: advancement and challenges, WIHG, Dehradun, 16-18 May 2018.
- 2017** *Prakasam, M.*, Meena, N. K., Sarkar, S. Role of Indian Summer Monsoon and Westerlies in paleoclimatic variability of Ladakh Himalaya since the Little Ice Age. EX-AQUA-2017, Palaeohydrological extreme events: evidences and archives. Indian Institute of Technology Kanpur, Noida, 1-5 November 2017. (Oral).

- 2016** *Prakasam, M., Meena, N. K., Sarkar, S., Diwate, P. R.* Paleoclimatic multiproxy record from Tso Moriri Lake, NW Himalaya, India: during the past 600-years. TWAS-ROCASA Young Scientists Conference. Indian Institute of Science, Bangalore, 5-7 December 2016. (Poster).
- Prakasam, M., Gupta, A. K., Yuvaraja, A., Ray, S.* Southwest monsoon driven changes in paleoproductivity in the NW Arabian Sea during the Neogene: a multi-proxy approach. 12th International Conference on Paleoceanography (ICP12), Utrecht (The Netherlands), 29 Aug. to 2 Sep. 2016.
- Saravanan P., Gupta A. K., Panigrahi, M. K., *Prakasam M., Rai S. K.* (2016). Indian summer monsoon variability during the last 6000 years BP recorded in sediments from South Eastern Arabian Sea. International Conference of Paleoceanography (ICP-12), Utrecht (The Netherlands), 29 Aug. to 2 Sep. 2016.
- Gupta A. K., Singh R. K., Das M., *Prakasam M., Dutt S.* (2016). Abrupt changes in the Indian summer monsoon since MIS 3. 103rd Indian Science Congress, University of Mysore, 3-7 January 2016. (Oral).
- Saravanan P., Gupta A. K., Panigrahi, M. K., *Prakasam M., Rai S. K.* (2016) Abrupt changes in Indian summer monsoon variability during the Middle - Late Holocene. National Geo Research Scholar Meet (NGEOSM-2016) at WIHG Dehradun. 01-04 Jun 2016. Vol-1.pp4, (Poster).
- 2015** *Prakasam, M., Sarkar, S., Meena, N. K., Diwate, P. R.* Multi-centennial climatic variability from Tso-Moriri Lake, NW Himalaya, India. CLIVAR-ICTP Workshop on Past and Future Climate Shifts: Decadal Climate Variability and Predictability, Trieste (Italy), 16-24 November 2015. (Poster).
- Gupta, A. K., *Prakasam M., Yuvaraja, A., Dutt, S., Das, M., Singh, R. K., Velu A.* Inception of the Indian monsoon and its abrupt behaviour since the latest Pleistocene, 30th Himalaya- Karakoram-Tibet (HKT) Workshop, Wadia Institute of Himalayan Geology (WIHG), Dehradun, 6–8 October 2015. (Oral).
- Prakasam M., Meena N. K., Sarkar S., Bhushan R.* Last five decadal heavy metal pollution records in the Rewalsar Lake, Himachal Pradesh, India. 30th Himalaya-Karakoram-Tibet workshop. Wadia Institute of Himalayan Geology, Dehradun, 6–8 October 2015. (Poster).
- Meena N. K., *Prakasam M., Sarkar S., Bhushan R. Diwate P. R.* High resolution 1600 year climatic records inferred from Tso-Moriri lake Ladakh, north western Himalaya, India. 30th Himalaya-Karakoram-Tibet workshop. Wadia Institute of Himalayan Geology, Dehradun, 6–8 October 2015. (Poster).
- Sarkar S., Meena N. K., *Prakasam M., Banerji U. Bhushan R. Kumar P.* Rapid sedimentation history of Rewalsar Lake, Lesser Himalaya, India during the last fifty years – Estimated using ¹³⁷Cs and ²¹⁰Pb dating techniques. 30th Himalaya-Karakoram-Tibet workshop. Wadia Institute of Himalayan Geology, Dehradun, 6–8 October 2015. (Poster).
- Saravanan, P., Gupta A. K., Panigrahi M. K., *Prakasam, M.* A 8kyr history of paleo productivity in the South Eastern Arabian Sea. 25th Indian Colloquium on Micropaleontology and Stratigraphy, Institute of Science, Aurangabad, 18 – 20 December 2015. (Poster).

(f) Reports/Other Documents:

(g) Articles in Proceeding Volumes