



# Dr. Juhi Yadav

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## Curriculum Vitae

National Centre for Polar and Ocean Research (NCPOR)  
Ministry of Earth Sciences, Govt. of India  
Headland Sada, Vasco-da-Gama, Goa - 403 804, India

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### Positions

- March 2023 -till date **Project Scientist-I**, *International Cooperation and Outreach, National Centre for Polar and Ocean Research (NCPOR), Ministry of Earth Sciences, Govt. of India, Vasco-da-Gama, Goa, India, www.ncpor.res.in.*
- March 2024 - **SCAR PSG Fellow**, *Scientific Committee on Antarctic Research (SCAR), Physical Sciences Group (PSG), <https://scar.org/scar-news/geosciences/2023-science-group-fellows>.*
- February 2026
- March 2021 - **Senior Research Fellow**, *International Cooperation and Outreach, National Centre for Polar and Ocean Research (NCPOR), Ministry of Earth Sciences, Govt. of India, Vasco-da-Gama, Goa, India, www.ncpor.res.in.*
- March 2023
- March 2019 - **Junior Research Fellow**, *International Cooperation and Outreach, NCPOR, Ministry of Earth Sciences, Govt. of India, Vasco-da-Gama, Goa, India, www.ncpor.res.in.*
- March 2021

### Research and Outreach Work

- Studying polar sea ice variability and trends in the Arctic and Antarctic regions as indicators of global climate change, with emphasis on the role of ocean-atmospheric interactions using satellite and reanalysis datasets.
- Investigating the linkages between polar sea ice changes and Indian weather patterns, including monsoon and temperature variability, through climate data analysis and statistical methods.
- Served as a **SCAR Physical Sciences Group (PSG) Fellow** March 2024 till present,

with responsibilities including drafting strategic documents, supporting science-policy engagement, and facilitating group communications.

- Actively involved in science outreach and coordination, including member of organizing committee for conferences and meetings like National Conference on Polar Science (NCPS), 46th Antarctic Treaty Consultative Meeting (ATCM) organised in Kochi, India, NCPOR's outreach exhibitions, and supporting collaborative polar research and public engagement initiatives.

## Education

- March 2021– December 2025 **Doctor of Philosophy (Ph.D.)**, in *Marine Geology*, Mangalore University Mangalagangothri - 574 199 Karnataka, India and National Centre for Polar and Ocean Research - Vasco-da-Gama, Goa, India.
- 2016–2018 **Post Graduation**, in *Remote Sensing and GIS*, Kumaun University, Nainital, Uttarakhand India.
- 2013–2016 **Graduation**, in *Geography*, Banaras Hindu University, Varanasi, Uttar Pradesh, India.

## Masters Projects

- Title : "*Inter-Annual and Inter-Seasonal Variability in Eastern Coastal Region of Bay of Bengal using Altimetry Data*" completed during 4th semester of Masters degree under the guidance of Dr. Pankajakshan T. (Chief Scientist) in National Institute of Oceanography, Regional Centre Kochi (2018).
- Title : "*Land Use and Land Cover change detection using Google Earth Engine for Bageshwar district in Uttarakhand*" which was completed during 3rd semester of Masters degree under the guidance of Dr. Vikram Ranga (2017).

## Publications

Google Scholar Profile: [Google Scholar on January 01, 2026](#)

ORCID (Open Researcher and Contributor ID): [0000-0002-4575-7942](#)

### Publication Statistics

Citation indices	Since 2020 (as on March, 2026)
Citations	346
h-index	7
i10-index	6

### Peer-reviewed Journals

1. Swathi M, Avinash Kumar, **Juhi Yadav**, and Rahul Mohan (2025). The role of atmospheric and oceanic factors on the record low Antarctic sea ice extent of 2023 *Global and Planetary Change*, <https://doi.org/10.1016/j.gloplacha.2025.104858> (IF: 4.0)

2. Swathi M, Aakriti Srivastava, Avinash Kumar, **Juhi Yadav**, Dinesh Chandra Gupta, and Rahul Mohan (2025). Trends in Antarctic Sea Ice and Albedo: Impacts of Ocean-Atmospheric Processes *International Journal of Climatology*, <https://doi.org/10.1002/joc.8791> (Impact Factor: 3.60)
3. **Juhi Yadav**, Avinash Kumar, Seong Joong Kim, Rohit Srivastava, Rahul Mohan, and Ravichandran M. (2024). Contrasting response of Regional Spring Arctic Sea Ice Variations on Indian Summer Monsoon Rainfall. *Remote Sensing of Environment*, 311, 114247. <https://doi.org/10.1016/J.RSE.2024.114247> (Impact Factor: 11.1)
4. Aakriti Srivastava, Avinash Kumar, **Juhi Yadav**, Dinesh Chandra Gupta, Rahul Mohan (2023). Morphological changes and future projections of the Getz Ice shelf, western Antarctica—A statistical and geospatial approach. *Regional Studies in Marine Science* Elsevier <https://doi.org/10.1016/j.rsma.2023.103144> (IF: 2.16)
5. **Juhi Yadav**, Avinash Kumar, Rahul Mohan (2022a). Atmospheric precursors to the Antarctic sea ice record low in February 2022. *Environmental Research Communications*. <https://doi.org/10.1088/2515-7620/aca5f2> (IF: 3.23)
6. **Juhi Yadav**, Avinash Kumar, Aakriti Srivastava, Rahul Mohan, (2022). Sea ice Variability and Trends in the Indian Ocean Sector of Antarctica: Interaction with ENSO and SAM *Environmental Research* Volume 212, Part D: 113481 <https://doi.org/10.1016/j.envres.2022.113481> (Impact Factor: 8.43)
7. Swathi M., **Juhi Yadav**, Avinash Kumar and Mohan R (2022). Antarctic Sea ice Variability and Trends Over the Last Four Decades. *Chapter 11 in a Book titled “Advances in Remote Sensing Technology and The Three Poles” (ISBN: 9781119787723)* Published by Wiley
8. Avinash Kumar, **Juhi Yadav** and Rahul Mohan (2021). Seasonal sea-ice variability and its trend in the Weddell Sea sector of West Antarctica, *Environmental Research Letters* Volume 16, Issue 2 *Springer Publications* <https://doi.org/10.1088/1748-9326/abdc88> (Impact Factor: 6.7)
9. Avinash Kumar, **Juhi Yadav** and Rahul Mohan (2021). Spatio-temporal change and variability of Barents-Kara sea ice, in the Arctic: Ocean and atmospheric implications, *Science of The Total Environment*, *Elsevier Publications* Volume 753: Page 1-11 <https://doi.org/10.1016/j.scitotenv.2020.142046> (Impact Factor:10.75)
10. Avinash Kumar, **Juhi Yadav** , Srivastava R and Mohan R (2021). Arctic sea ice variability and trends in the last four decades: role of ocean-atmospheric forcing *Understanding Present and Past Arctic Environments* ed N Khare (Amsterdam, Netherlands: Elsevier Inc.) pp 301–24 <https://doi.org/10.1016/B978-0-12-822869-2.00010-4>

11. Avinash Kumar, **Juhi Yadav**, and Rahul Mohan (2020). Global warming leading to alarming recession of Arctic sea-ice cover: Insights from Remote Sensing observations and model reanalysis, *Journal of Environmental Management* *Elsevier Publications* <https://doi.org/10.1016/j.heliyon.2020.e04355> (Impact Factor: 3.77)
12. Avinash Kumar, Aakriti Srivastava, **Juhi Yadav** and Rahul Mohan (2020) Spatio-temporal changes and prediction of Amery ice shelf, East Antarctica: A remote sensing and statistics based approach, *Journal of Environmental Management* *Elsevier Publications* <https://doi.org/10.1016/j.jenvman.2020.110648> (Impact Factor: 8.91)
13. **Juhi Yadav**, Avinash Kumar, and Rahul Mohan (2020). Dramatic decline of arctic sea-ice linked to global warming, *Natural Hazard* *Springer Publications* <https://doi.org/10.1007/s11069-020-04064-y> (Impact Factor: 3.15)
14. B. S. Chaudhary, Ram Kumar Singh, Nupur Bhatia, Ravi Mishra, Md Ataulah Raza Khan, **Juhi Yadav** and Shashikanta Patariya (2019) Interactive Approach for Earthquake Scenario Development and Hazards Resource Estimation, Applications and Challenges of Geospatial Technology, *Springer Publications*.

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## Awards and Fellowships

- September 2025 **Received Young Polar Scientist Award** for work entitled "Teleconnections between Arctic sea ice and Indian Summer Monsoon Rainfall: Observational and Model Perspectives" under the theme Sea ice Variability and modeling in the National Conference on Polar Sciences (NCPS) during 17th -19th September 2025 at National Centre for Polar and Ocean Research (NCPOR), Goa.
- April 2025 **Awarded with the Outstanding Early Career Research Award 2024 by the National Centre for Polar and Ocean Research, Ministry of Earth Sciences (MoES)** on the occasion of the NCPOR 25<sup>th</sup> Foundation Day Silver Jubilee Celebration.
- December 2024 **Received an opportunity to participate in the International Internship Program hosted by National Institute of Polar Research (NIPR) Tachikawa, Tokyo, Japan.** The Fellowship offered to visit NIPR from December 2 to 17, 2024.
- March 2024 **Received Early Career Research Fellow Award for the Scientific Committee on Antarctic Research Physical Science Group (PSG)** by the Scientific Committee on Antarctic Research.

- August 2023 **Received Best Oral Presentation Award** for the work entitled " Investigating the Teleconnection between Spring Arctic Sea ice and Indian Summer Monsoon Rainfall" presented at the Eighth National Conference of the Ocean Society of India (OSICON 2023) hosted by INCOIS Hyderabad during 23rd - 25th August 2023. The presentation was done in the combined session of Marine Geology and Geophysics and Polar Science and Cryosphere Studies.
- May 2023 **Received Best Poster Presentation Award** for work entitled "Investigating the Role of Atmospheric Forcing on the Unprecedented Decline of Antarctic Sea Ice in February 2022" under the theme Sea ice Variability and modeling in the National Conference on Polar Sciences (NCPS) during 16th -19th May 2023 at National Centre for Polar and Ocean Research (NCPOR), Goa.
- March 2022 **Received Korea Polar Research Institute Fellowship (KOPRI) Award 2022** Program hosted by the Korea Polar Research Institute (KOPRI) under the category of Early Career Researcher from the Asian country on the proposed research on "Investigating the Impacts of Arctic Sea ice loss Over Indian Summer Heatwaves in Recent Decades".
- August 2021 **Received Best Paper Award** for the work entitled " Sea-ice in the Weddell Sea sector of West Antarctica: Insights from ocean-atmospheric forcing" presented during the Seventh National Conference of the Ocean Society of India OSICON-21 held online, under the theme of Polar Science and Cryosphere Studies during 12-14 August 2021.
- August 2019 **Received Young Polar Scientists Award** for Oral presentation entitled Inter-decadal Variability of Arctic Sea Ice extent trends: Interaction from Ocean-Atmosphere coupled mechanism in National Conference on Polar Sciences during August 20-22nd 2019 at National Centre for Polar and Ocean Research (NCPOR), Goa.
- December 2018 Awarded with **Junior Research Fellowship and Assistant Professor** in the examination conducted by the National Test Agency, University Grants Commission National Eligibility Test (NET) held in December, 2018.
- November 2017 **Qualified for Assistant Professor** only through the examination conducted by University Grants Commission, National Eligibility Test (NET) held in November, 2017.

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## Technical Skills (Computer)

Operating Systems: Linux and Windows

Languages: Python, R, MATLAB and Linux shell script

Image processing and plotting: ERDAS Imagine, ENVI, ArcGIS, Climate Data Operator (CDO), PyFerret, MATLAB, R and NCL

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## **Presentations at International/National Conferences and Meetings**

1. **Juhi Yadav**, Avinash Kumar, Swathi M, and Rahul Mohan (2025) “Antarctic Sea Ice at Record Lows: Ocean–Atmosphere Dynamics and Climate Implications” presented during the Fourth Triennial Congress of Federation of Indian Geosciences Association (FIGA), held during 6th -8th November 2025 at the Indian National Centre for Ocean Information Services.
2. **Juhi Yadav**, Avinash Kumar, Seong-Joong Kim, Rohit Srivastava, and Rahul Mohan (2025) “Teleconnections between Arctic sea ice and Indian Summer Monsoon Rainfall: Observational and Model Perspectives” presented during the third National Conference on Polar Sciences (NCPS-2025), held during 16th -18th September 2025 at National Centre for Polar and Ocean Research, Goa.
3. Participated in the one-day **Workshop on “Weather and Youth (WAY)”**, held on January 11, 2025, at Prithvi Bhawan, Ministry of Earth Sciences, New Delhi organised by the Indian Meteorological Department (IMD) on the occasion of its 150th Anniversary Celebration. The workshop focussed on the role of Youth in weather science and services.
4. **Juhi Yadav**, Avinash Kumar, Juhi Yadav, Avinash Kumar, Seong-Joong Kim, Rohit Srivastava, Rahul Mohan, and M. Ravichandran “Understanding the Arctic-Indian Monsoon Linkages: Insights from satellite and model-based observation” presented during the 15th Symposium on Polar Science hosted by the National Institute of Polar Research (NIPR) Tokyo, Japan, from 3 to 5 December 2024.
5. **Juhi Yadav**, Avinash Kumar, Swathi M, and Rahul Mohan (2024) “Investigating the Ocean-Atmospheric Contributions to the Rapid Decline of Antarctic Sea Ice” presented in Conference on Integrated Earth (CITE) 2024, organized by the Earth and Climate Science (ECS) Department of the Indian Institute of Science Education and Research (IISER) Pune, during September 1st -2nd, 2024.
6. Participated in the **46 Antarctic Treaty Consultative Meeting (ATCM) and 26 Committee for Environmental Protection (CEP)** hosted by National Centre for Polar and Ocean Research (NCPOR) at Kochi, Kerala from May 20th to 30th, 2024, as a member of Local Organising Committee.

7. **Juhi Yadav**, Avinash Kumar, Seong Joong Kim, Rohit Srivastava, Rahul Mohan, and Muthalagu Ravichandran (2023) presented "Investigating the Teleconnection between Spring Arctic Sea ice and Indian Summer Monsoon Rainfall" at the Eighth National Conference of the Ocean Society of India (OSICON 2023) hosted by INCOIS Hyderabad during 23rd - 25th August 2023.
8. **Juhi Yadav**, Avinash Kumar, and Rahul Mohan (2023) presented "Investigating the Role of Atmospheric Forcing on the Unprecedented Decline of Antarctic Sea Ice in February 2022" under the theme Sea ice Variability and modeling in the National Conference on Polar Sciences (NCPS) during 16th -19th May 2023 at National Centre for Polar and Ocean Research, Goa.
9. **Juhi Yadav**, Avinash Kumar, Seong Joong Kim, Rohit Srivastava, Rahul Mohan, and Muthalagu Ravichandran (2023) "Possible linkages between spring Arctic Sea ice and Indian summer monsoon rainfall" presented during the International Arctic Science Committee organized by Arctic Science Summit Week (ASSW) 2023, hosted in Vienna (Austria) from 17th – 24th February 2023.
10. **Juhi Yadav**, Avinash Kumar, Seong Joong Kim, Rohit Srivastava, Rahul Mohan, and Muthalagu Ravichandran (2023) "Connection between spring Arctic Sea ice concentration with Indian Summer Monsoon Rainfall" presented during the 27th International Symposium on Polar Sciences (ISPS2022) organized by Korea Polar Research Institute held online during September 20-21, 2022.
11. **Juhi Yadav**, Avinash Kumar, Aakriti Srivastava, and Rahul Mohan (2022) "Response of Indian Ocean sector of Antarctic sea ice to the ENSO and SAM" presented during the 10th SCAR Open Science Conference, held online during August 20-21, 2022.
12. **Juhi Yadav**, Avinash Kumar and Rahul Mohan (2021) "Sea-ice in the Weddell Sea sector of West Antarctica: Insights from ocean-atmospheric forcing" presented during the Seventh National Conference of the Ocean Society of India OSICON-21 held online, under the theme of Polar Science and Cryosphere Studies during 12-14th August 2021.
13. Avinash Kumar, **Juhi Yadav** and Rahul Mohan (2019) Role of Ocean-Atmosphere Coupled Mechanism in unprecedented Decline of Arctic Sea-ice during the International Symposium on Advances in Coastal Research with Special Reference to Indo Pacific-2019 (AdCoRe IP-2019) during December 17-19th 2019 at National Centre for Coastal Research (NCCR), Chennai.
14. Avinash Kumar, Aakriti Srivastava, **Juhi Yadav**, Rahul Mohan (2019) Recent morphodynamical changes and forecast of Amery ice shelf, Eastern Antarctica in the in the 6th Biennial Conference OSICON-19 during 12-14th December 2019 at CMLRE, Kochi.

15. **Juhi Yadav**, Avinash Kumar and Rohit Srivastava (2019) Inter-decadal Variability of Arctic Sea Ice extent trends: Interaction from Ocean-Atmosphere coupled mechanism in National Conference on Polar Sciences during August 20-22nd 2019 at National Centre for Polar and Ocean Research (NCPOR), Goa.
16. **Juhi Yadav**, Rohit Srivastava, Jitendra Tiwari and Mayuri Paul (2017) Detecting Urban Land-Use and Land Cover Change in Varanasi District using Geospatial Technology in the National Conference organized by Jamia Millia Islamia in February 2017, New Delhi.

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## Participation in International/ National Training Program

1. Training programme on Ocean Color Remote Sensing - Data, Processing and Analysis conducted by International Training Centre for Operational Oceanography (ITC ocean), at Indian National Centre for Ocean Information Services (INCOIS), Hyderabad during 25- 29 November 2019.
2. SMART training programme on Emerging Trends in GNSS Meteorology during 27-30 August 2019 at Space Applications Centre - Bopal campus, Ahmedabad.
3. Workshop on Cutting Edge Geospatial Technology on Climate Change Analysis organized by Kumaun University, SSJ Campus in June 2018, Almora.
4. Training programme on Bhuvan Overview at National Institute of Remote Sensing, in April 2017, Hyderabad.

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## Conference Coordination & Organization

- Sep 16–18, 2025 Organising Committee Member for the **National Conference on Polar Sciences (NCPS-2025)**, held at the National Centre for Polar and Ocean Research (NCPOR), Goa, India, involving polar science researchers, university faculty, and scientists.
- May 20–30, 2024 Organising Committee Member for the **46th Antarctic Treaty Consultative Meeting (ATCM46)** and **26th Committee on Environmental Protection (CEP26)**, hosted by MoES–NCPOR in Kochi, India.
- May 16–19, 2023 Organising Committee Member for the **National Conference on Polar Sciences (NCPS-2023)**, held at NCPOR, Goa, India, with participation from researchers, university faculty, and scientists.

Aug 20–22, 2019 Local Organising Committee Member for the **National Conference on Polar Sciences (NCPS-2019)** and the **Young Polar Scientists Meet (YPSM)**, conducted at NCPOR, Goa, India, for faculty, scientists, and early-career researchers.

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## **Additional Skills**

- **Science Communication:** Experience in drafting scientific reports, policy-relevant documents, and communication materials for diverse audiences.
- **Writing Skills:** Academic and technical writing, including research articles, reports, and meeting documentation.
- **Analytical Skills:** Proficient in spatial data analysis and interpretation for climate and geoscience applications.
- **Data Visualization:** Skilled in presenting scientific data using Python, R, and GIS tools for effective communication.
- **Communication & Collaboration:** Strong English communication skills with experience in interdisciplinary teamwork, public engagement, and leadership.

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