Sourav Chatterjee
DoB: 30 June 1989

National Centre for Polar and Ocean Research, Goa
Ministry of Earth Scieces, Govt. of India
Headland Sada, Vasco-da-Gama, Goa- 403804
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EDUCATION

Graduate Aptitude Test in Engineering, 2012, Mathematics
All India Rank - 24

Master of Science, Mathematics with Computer Applications
National Institute of Technology, Durgapur, India 2010-2012
THESIS - Topological Structure of Financial Market
CGPA 9.02

Bachelor of Science, Mathematics (Hons.)
St. Xavier's College, Kolkata, India 2007-2010
Percentage: 60

PROFESSIONAL EXPERIENCE

National Centre for Polar and Ocean Research, Goa,India Scientist C
November 2017 – Till date

Arctic Group: Atmosphere-Ocean Interaction Studies Division

- **Research Areas:** Arctic and Sub-Arctic Oceans Fluxes; Large scale atmospheric circulations; Pole-Tropics Teleconnections; Air-sea-ice interactions.

Nansen Environmental and Remote Sensing Center, Bergen, Norway Nansen Scientific Society Fellow
August 2016 – September 2016

National Centre for Polar and Ocean Research, Goa,India Scientist B
March 2014 – November 2017

Indian Institute of Tropical Meteorology, Pune, India Trainee Scientist
August 2012 – December 2013

Centre of Advanced Training (CAT), IITM
Earth System Science Organization
Ministry of Earth Sciences, Govt. of India

- Training on Atmospheric Sciencies, Oceanography and Earth Sciences.
- Project at NCPOR, Goa ; Title: Identification of sources of dust transported to Antarctica using Lagrangian Particle Dispersion Model.

Peer-Reviewed Publications

Chatterjee S., Ravichandran, M., Murukesh, N., Raj, R. P. Johannessen, O. M.*A possible relation between Arctic sea ice and late season Indian Summer Monsoon Rainfall extremes*, **npj Clim. Atmos. Sci.** 4, 36,https://doi.org/10.1038/s41612-021-00191-w (2021)

Chatterjee, S., Raj, R. P., Bertino, L., Merlind, S. H., Murukesh, N., and Ravichandran, M.: *Combined influence of oceanic and atmospheric circulations on Greenland Sea Ice concentration*, **The Cryosphere**, https://doi.org/10.5194/tc-2020-127, (2021)

Belova, E., Voelger, P., Kirkwood, S., Hagelin, S., Lindskog, M., Krnich, H., **Chatterjee, S.**, and Satheesan, K. *Validation of wind measurements of two MST radars in northern Sweden and in Antarctica*, **Atmos. Meas. Tech.**, https://doi.org/10.5194/amt-2020-405 (2021)

Belova, E., Kirkwood, S., Voelger, P., **Chatterjee, S.**, Satheesan, K., Hagelin, S., Lindskog, M., and Krnich, H.: *Validation of Aeolus winds using ground-based radars in Antarctica and in northern Sweden.* **Atmos. Meas. Tech.** https://doi.org/10.5194/amt-2021-54 (Accepted) (2021)

Vidar S. Lien, Roshin P. Raj and **Sourav Chatterjee**.*Modelled sea-ice volume and area transport from the Arctic Ocean to the Nordic and Barents Seas.* CMEMS Ocean State Report-5; **Journal of Operational Oceanography** (Accepted) (2021)

Jawak, S.D.; Andersen, B.N.; Pohjola, V.A.; Gody, .; Hbner, C.; Jennings, I.; Ignatiuk, D.; Holmn, K.; Sivertsen, A.; Hann, R.; Tmmervik, H.; Kb, A.; Baszczyk, M.; Salzano, R.; Luks, B.; Hgda, K.A.; Storvold, R.; Nilsen, L.; Salvatori, R.; Krishnan, K.P.; **Chatterjee, S.**; Lorentzen, D.A.; Erlandsson, R.; Rune Lauknes, T.; Malnes, E.; Karlsen, S.R.; Enomoto, H.; Fjraa, A.M.; Zhang, J.; Marty, S.; Nygrd, K.O.; Lihavainen, H. *SIOSs Earth Observation (EO), Remote Sensing (RS), and Operational Activities in Response to COVID-19.***Remote Sens.**,13, 712. https://doi.org/10.3390/rs13040712 (2021)

Acharya Asutosh, **Sourav Chatterjee**, M.P Subsesh, Athulya Radhakrishnan, Murukesh Nuncio: *Observation of cloud base height and precipitation characteristics at a polar site Ny-lesund, Svalbard using ground-based remote sensing and model reanalysis.* **Remote Sens.** (Accepted) (2021)

Vidya, PJ.; Ravichandran, M.; Murtugudde, R.; Subeesh, MP.; **Chatterjee, S.**; Neetu, S. and Nuncio, M. *Increased cyclone destruction potential in the Southern Indian Ocean*, **Environ. Res. Lett.**, 16, 014027. https://doi.org/10.1088/1748-9326/abceed (2020)

Raj, R.P.; Andersen, O.B.; Johannessen, J.A.; Gutknecht, B.D.; **Chatterjee, S.**; Rose, S.K.; Bonaduce, A.; Horwath, M.; Ranndal, H.; Richter, K.; Palanisamy, H.; Ludwigsen, C.A.; Bertino, L.; . Nilsen, J.E.; Knudsen, P.; Hogg, A.; Cazenave, A.; Benveniste, J. *Arctic Sea Level Budget Assessment during the GRACE/Argo Time Period.* **Remote Sens.**, 12, 2837. https://doi.org/10.3390/rs12172837. (2020)

Raj, R. P., Halo, I., **Chatterjee, S.**, Belonenko, T., BakhodayPaskyabi, M., Bashmachnikov, I., et al. *Interaction between mesoscale eddies and the gyre circulation in the Lofoten Basin.* **Journal of Geophysical Research: Oceans**, 125, e2020JC016102. https://doi.org/10.1029/2020JC016102 (2020)

Vidya, PJ; Ravichandran, M.; Subeesh, MP; **Chatterjee, Sourav**; Nuncio, M. *Global warming hiatus contributed weakening of the Mascarene High in the Southern Indian Ocean*, **Nature Scientific Reports** ,Vol. 10, Issue 1, 10.1038/s41598-020-59964-7, (2020)

M. Nuncio, **Sourav Chatterjee**, K. Satheesan, Sheeba Nettukandy Chenoli Subeesh M.P. *Temperature and precipitation during winter in Nylesund, Svalbard and possible tropical linkages*, **Tellus A: Dynamic Meteorology and Oceanography**, 72:1, 1-15, DOI: 10.1080/16000870.2020.1746604. (2020)

Raj, R. P., **Chatterjee, S.**, Bertino, L., Turiel, A., and Portabella, M.: *The Arctic Front and its variability in the Norwegian Sea*, **Ocean Sci.**, 15, 17291744, https://doi.org/10.5194/os-15-1729-2019, (2019)

Waliur Rahman, **Sourav Chatterjee**, Tariq Ezaz and Thamban Meloth. *Increased influence of ENSO on Antarctic temperature since the Industrial Era.* **Nature Scientific Reports**, volume9, Articlenumber:6006 (2019)

Chatterjee, S., Raj, R. P., Bertino, L., Skagseth, ., Ravichandran, M., Johannessen, O. M. *Role of Greenland Sea gyre circulation on Atlantic Water temperature variability in the Fram Strait*. **Geophysical Research Letters**, 45, (2018)

Chatterjee, S., Nuncio, M. Satheesan, K. :*ENSO related SST anomalies and Relation with Surface Heat Fluxes over South Pacific and South Atlantic* .**Climate Dynamics**,Volume 49, Issue 12, pp 391401, https://doi.org/10.1007/s00382-016-3349-3 (2017)

Conference/Symposium/Training/Award/Expeditions

M. Nuncio, K Satheesan, S Chatterjee: Influence of ENSO, ENSO Modoki and Indian Ocean Dipole on southern high-latitude climate; SCAR Open Science Conference, 22-26 August 2016, Kualalampur

S Chatterjee, K Satheesan, S Sijikumar: Observation and modelling of Tropopause fold associated with frontal systems in Antarctica; National Space Science Symposium, 2016, SPL VSSC Thiruvananthapuram, 9-12 th Feb, 2016

M. Nuncio, K Satheesan, S Chatterjee: Tropical Indo-Pacific SST variability and its high latitude responses Similarities and Differences; 52 nd Annual Convention of Indian Geophysical Union, NCAOR Goa, 2-4 th Nov, 2016

M. Nuncio, K. Satheesan, Jenson V Gorge, S. Chatterjee: High Frequency Variability of the Southern Subtropical front during Summer: A Case Study; Dynamics of the Indian Ocean: Perspective and Retrospective, NIO Goa, 30 th Nov- 4 th Dec 2015.

GODAE International Summer School on Operational Oceanography, 2017, Mallorca, Spain

Invited talk at International Arctic Winter School, 2018, NCPOR, Goa

International interdisciplinary PhD and Post-Doc research school- Observing and Modelling the Arctic Environment- Climate processes, prediction and projection,8-13th September, 2019, St. Petersburg, Russia

Arctic Change 2020: 7-10 Dec, 2020 Poster: Influence of Nordic Seas dynamics on the Atlantic Water propagation and its impacts on sea ice concentration

Arctic Science Summit Week: 19-26 March, 2021 Oral: Non-stationary relation between ENSO and SST in Barents Sea.

EGU General Assembly: 19-30 April, 2021 Oral: Influence of Nordic Seas dynamics on the Atlantic Water propagation and its impacts on sea ice concentration.

Award:
Best Research Contribution, 2018 at NCPOR, Goa
Best Research Contribution, 2019 at NCPOR, Goa
Emerging Leaders Programme 2020 - Arctic Frontiers

Expedition:

- Arctic: 2014, 2015, 2016, 2017, 2018
- Antarctic: 2014-15, 2015-16, 2016-17, 2018-19