

## **CURRICULUM VITAE**



Name : **DR. SARAT CHANDRA TRIPATHY**  
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### **ACADEMIC BACKGROUND:**

2011: D.Sc., Earth and Environmental Sciences [Nagoya University, Japan].  
2005: Ph.D., Marine Sciences [National Institute of Oceanography/Berhampur University].  
1998: M.Sc., Marine Biology [Berhampur University, Odisha].  
1996: B.Sc., Botany (Honors), Chemistry, Zoology [Utkal University, Odisha].

### **PROFESSIONAL BACKGROUND:**

01-2021 : Scientist - F, National Centre for Polar and Ocean Research (NCPOR), MoES, Goa.  
01-2016 : Scientist - E, National Centre for Polar and Ocean Research (NCPOR), MoES, Goa.  
12-2011 : Scientist - D, National Centre for Antarctic and Ocean Research (NCAOR), MoES, Goa.  
04-2011 : Post Doctoral Fellow, HyARC, Nagoya University, Japan.  
04-2008 : Research Student (D.Sc.), Nagoya University, Japan.  
04-2005 : Japanese Govt. (Monbukagakusho/MEXT) Scholar, Nagasaki University, Japan.  
06-2003 : Senior Research Fellow, CSIR-National Institute of Oceanography (NIO), Visakhapatnam.  
11-2001 : Project Biologist, Wildlife Institute of India (WII), MoEF-CC, Dehradun.  
09-1999 : Project Trainee-III, CSIR-National Institute of Oceanography (NIO), Visakhapatnam.

### **AWARDS & RECOGNITIONS:**

- INSA grant to participate in the XII<sup>th</sup> SCAR-Biology Symposium in Belgium during 2017.
- Nagoya University grant to participate in PICES conference in USA during 2009.
- Outstanding poster award in the PORSEC held at Guangzhou, China during 2008.
- Japanese Government (MEXT) Fellowship for pursuing D.Sc. in Japan during 2005.
- NF-POGO fellowship for visiting professor's training at NIO, Kochi during 2004.
- CSIR-Senior Research Fellowship during 2003.
- 2<sup>nd</sup> rank in M.Sc from Berhampur University during 1998.
- State Scholarship in higher secondary examination during 1991.

### **MAJOR AREA OF RESEARCH INTERESTS:**

- Phytoplankton Productivity (Carbon Dynamics) & Bio-optical Oceanography
- Bio-physical Interactions, Marine Ecology & Biogeochemistry

#### SCIENTIFIC EXPEDITIONS PARTICIPATED:

- 2019: Team leader of the Indian Arctic Expedition (Batch III).  
2018: Team leader of the Indian Arctic Expedition (Batch II).  
2018: Member of the 10<sup>th</sup> Indian Southern Ocean Expedition onboard MV SA-Agulhas.  
2017: Chief Scientist of the 9<sup>th</sup> Indian Southern Ocean Expedition onboard MV SA-Agulhas.  
2016: Team leader of the Indian Arctic Expedition (Batch II).  
2015: Chief Scientist of the 8<sup>th</sup> Indian Southern Ocean Expedition onboard ORV-Sagar Nidhi.  
2014: Deputy Chief Scientist of the Tropical Indian Ocean Expedition onboard ORV-Sagar Nidhi.  
2013: Deputy Chief Scientist of the 7<sup>th</sup> Indian Southern Ocean Expedition onboard ORV-Sagar Nidhi.  
2012: Member of the Indian Arctic Expedition (Batch III).

*Over 700 days of cruise experience onboard several Scientific Research Vessels in Bay of Bengal, Arabian Sea, Indian Ocean, East China Sea, Southern Ocean & coastal Antarctica, and Arctic fjords.*

#### PEER-REVIEWED PUBLICATIONS (JOURNALS/BOOKS):

45. Pandi, S.R., Chari, N.V.H.K., Lotliker, A.A., Sarma, N.S., Murthy, K.N., **Tripathy, S.C.** (202x): Seasonal and temporal variability of coloured dissolved organic matter (CDOM) in the coastal waters of Bay of Bengal (off Visakhapatnam). ***Ocean Science Journal***. [Under Review]
44. Bhowmik, M., Mandal, S., **Tripathy, S.C.** (202x): Benthic biome of Southern Ocean: Present state of knowledge and future perspective. In A. Majumdar & W. Ghosh (Eds): ***Systems Biogeochemistry of Major Marine Biomes***, pp. xxx-xxx, AGU Books (Wiley-Blackwell). [Under Review]
43. Zhu, Y., Hughes, D., Wang, S., Jiang, Z., **Tripathy, S.C.**, Ishizaka, J., Goes, J., Zeng, J. (202x): Long-term changes in particulate organic carbon, phytoplankton carbon, and net primary productivity in the East China Sea during summer. ***Journal of Geophysical Research: Oceans***. [Under Review]
42. Pandi, S.R., **\*Tripathy, S.C.**, Shaju, S.S., Minu, P., Kerkar, A.U., Dessai, D.V.G., Bajish, C.C., Anilkumar, N. (202x): Interannual variability of bio-optical characteristics In the Indian sector of Southern Ocean. ***Progress in Oceanography***. [Under Review]
41. Kerkar, A.U., Venkataramana, V., **\*Tripathy, S.C.** (202x): Trophic link between the primary and secondary producers of the Southern Ocean: A carbon biomass-based approach. ***Oecologia***. [Under Review]
40. Kerkar, A.U., **\*Tripathy, S.C.**, David, J.H., Surdarsanarao, P., Sabu, P., Tiwari, M. (202x): Characterization of phytoplankton productivity and bio-optical variability of a polar marine ecosystem. ***Progress in Oceanography*** [Under Review]
39. Pandi, S.R., Chari, N.V.H.K., Das, S., **Tripathy, S.C.**, Sarma, N.S. (202x): A review of estuarine CDOM dynamics of east coast of India influenced by hydrographical forcing. In S. Das & T. Ghosh (Eds): ***Estuarine Biogeochemical Dynamics of the East Coast of India***, Springer Nature Switzerland AG. ISBN: xxx. [Under Review]
38. Pandi, S.R., Chari, N.V.H.K., Sarma, N.S., Chiranjeevulu, G., Kiran, R., Murthy, K.N., Venkatesh, P., Lotlikar, A.A., **Tripathy, S.C.** (202x): Characteristics of conservative and non-conservative CDOM of a tropical monsoonal estuary in relation to changing biogeochemistry. ***Regional Studies in Marine Science***. [Under Review]

37. **Tripathy, S.C.**, Varunan, T., Shanmugam, P., Kerkar, A.U., Sarkar, A., Bhaskar, J.T., Kurian, S., Bhaskar, P.V., Gauns, M. (202x): Summertime variability in bio-optical properties and phytoplankton pigment signatures in high Arctic fjords, Svalbard. **Continental Shelf Research**. [Under Review]
36. Inamdar, S., Tinel, L., Chance, R., Carpenter, L., Sabu, P., Chacko, R., **Tripathy, S.C.**, Kerkar, A.U., Sinha, A.K., Bhaskar, P.V., Sarkar, A., Roy, R., Sherwen, T., Cuevas, C., Saiz-Lopez, A., Ram, K., Mahajan, A.S. (2020): Estimation of reactive inorganic iodine fluxes in the Indian and Southern Ocean marine boundary layer. **Atmospheric Chemistry and Physics**, Vol. 20(20), pp. 12093–12114.
35. Pandi, S.R., Baliarsingh, S.K., Lotliker, A.A., Sarma, N.S., **Tripathy, S.C.** (2020): Empirical relationships for remote sensing reflectance and *Noctiluca scintillans* cell density in the northeastern Arabian Sea. **Marine Pollution Bulletin**, Vol. 161(Part B), pp. 111770.
34. Kerkar, A.U., **\*Tripathy, S.C.**, Minu, P., Baranval, N., Sabu, P., Patra, S., Mishra, R.K., Sarkar, A. (2020): Variability in primary productivity and bio-optical properties in the Indian sector of the Southern Ocean during an austral summer. **Polar Biology**, Vol. 43(10), pp. 1469-1492.
33. Singh, A., David, D.T., **Tripathy, S.C.**, Naik, R.K. (2020): Interplay of regional oceanography and biogeochemistry on phytoplankton bloom development in an Arctic fjord. **Estuarine, Coastal and Shelf Science**, Vol. 243, pp. 106916.
32. **Tripathy, S.C.**, Sabu, P., Patra, S., Naik, R.K., Sarkar, A., Venkataramana, V., Kerkar, A.U., Sudarsanarao, P. (2020): Biophysical control on variability in phytoplankton production and composition in the South-Western Tropical Indian Ocean during monsoon 2014. **Frontiers in Marine Science**, Vol. 7(515), pp. 1-18.
31. Bhaskar, J.T., Bhaskar, P.V., **Tripathy, S.C.** (2020): Spatial and seasonal variations of dinoflagellates and ciliates in the Kongsfjorden, Svalbard. **Marine Ecology**, Vol. 41(3), pp. 1-12.
30. Venkataramana, V., Anilkumar, N., Swalding, K., Mishra, R.K., **Tripathy, S.C.**, Sarkar, A., Soares, M.A., Sabu, P., Pillai, H.U.K. (2020): Distribution of zooplankton in the Indian Ocean sector of Southern Ocean, **Antarctic Science**, Vol. 32(3), pp. 168-179.
29. Kerkar, A.U., Venkataramana, V., **\*Tripathy, S.C.** (2020): Morphometric estimation of copepod carbon biomass in coastal Antarctica: a case study in Prydz Bay. **Journal of Crustacean Biology**, Vol. 40(1), pp. 58-66.
28. **Tripathy, S.C.** and Jena, B. (2019): Iron-stimulated phytoplankton blooms in the Southern Ocean: a brief review. **Remote Sensing in Earth Systems Sciences**, Vol. 2(1), pp. 64-77.
27. Sinha, A.K., Bhaskar, P.V., **Tripathy, S.C.**, Sarkar, A., Sabu, P. (2019): Effects of growth conditions on siderophore producing bacteria and siderophore production from Indian sector of Southern Ocean. **Journal of Basic Microbiology**, Vol. 59(4), pp. 412-424.
26. Pillai, H.U.K., Anilkumar, N., Achuthankutty, C.T., Mendes, C.R., Sabu, P., Jayalakshmi, K.V., Asha Devi, C.R., Dessai, D., George, J.V., Pavithran, S., Hari Devi, C.K., **Tripathy, S.C.**, Menon, N.R. (2018): Planktonic food web structure at SSTF and PF in the Indian sector of Southern Ocean during austral summer 2011. **Polar Research**, Vol. 37(1), pp. 1495545.
25. George, J.V., Anilkumar, N., Nuncio, M., Soares, M.A., Naik, R.K., **Tripathy, S.C.** (2018): Upper layer diapycnal mixing and nutrient flux in the subtropical frontal region of the Indian sector of Southern Ocean. **Journal of Marine Systems**, Vol. 187, pp. 197-205.
24. **Tripathy, S.C.**, Patra, S., Vishnu Vardhan, K., Sarkar, A., Mishra, R.K., Anilkumar, N. (2018): Nitrogen uptake

- by phytoplankton in surface waters of the Indian sector of Southern Ocean during austral summer. **Frontiers of Earth Science**, Vol. 12(1), pp. 52-62.
23. Sukigara, C., Mino, Y., **Tripathy, S.C.**, Ishizaka, J., Matsuno, T. (2017): Impacts of the Changjiang diluted water on sinking processes of particulate organic matters in the East China Sea. **Continental Shelf Research**, Vol. 151, pp. 84-93.
22. Zhu, Y., Ishizaka, J., **Tripathy, S.C.**, Wang, S., Sukigara, C., Goes, J., Matsuno, T., Suggett, D.J. (2017): Relationship between light, community composition and the electron requirement for carbon fixation in natural phytoplankton. **Marine Ecology Progress Series**, Vol. 580, pp. 83-100.
21. Venkataramana, V., **Tripathy, S.C.**, Anilkumar, N. (2017): The occurrence of blue-pigmented *Pontella valida* Dana, 1852 (Copepoda: Calanoida: Pontellidae) in the equatorial Indian Ocean. **Journal of Crustacean Biology**, Vol. 37(4), pp. 512-515.
20. **Tripathy, S.C.**, Mishra, R.K., Naik, R.K. (2017): Progress in Southern Ocean biology from the Indian Sector: half-decadal (2009-13) overview. **Proceedings of the Indian National Science Academy**, Vol. 83(2), pp. 385-398.
19. Zhu, Y., Ishizaka, J., **Tripathy, S.C.**, Wang, S., Mino, Y., Matsuno, T., Suggett, D.J. (2016): Variation of the photosynthetic electron transfer rate and the electron requirement for daily net carbon fixation in Ariake Bay, Japan. **Journal of Oceanography**, Vol. 72(5), pp. 761-776.
18. Bhaskar, J.T., **Tripathy, S.C.**, Sabu, P., Laluraj, C.M. and Rajan, S. (2016). Variation of phytoplankton assemblages of Kongsfjorden in early autumn 2012: A microscopic and pigment ratio based assessment. **Environmental Monitoring and Assessment**, Vol. 188(4), pp. 1-13.
17. **Tripathy, S.C.**, Pavithran, S., Sabu, P., Pillai, H.U.K., Dessai, D.R.G. and Anilkumar, N. (2015). Deep chlorophyll maximum and primary productivity in the Indian Ocean sector of the Southern Ocean: Case study in the Subtropical and Polar Front during austral summer 2011. **Deep-Sea Research Part II: Topical Studies in Oceanography**, Vol. 118, pp. 240-249.
16. Sabu, P., Anilkumar, N., George, J.V., Chacko, R., **Tripathy, S.C.** and Achuthankutty, C.T. (2014). The influence of air-sea-ice interaction on the anomalous phytoplankton bloom in the Indian Ocean sector of Antarctic Zone of the Southern Ocean during austral summer 2011. **Polar Science**, Vol. 8(4), pp. 370-384.
15. **Tripathy, S.C.**, Pavithran, S., Sabu, S., Naik, R.K., Noronha, S.B., Bhaskar, P.V. and Anilkumar, N. (2014). Is phytoplankton productivity in the Indian Ocean sector of Southern Ocean affected by pigment packaging effect? **Current Science**, Vol. 107(6), pp. 1019-1026.
14. Wang, S., Ishizaka, J., Yamaguchi, H., **Tripathy, S.C.**, Hayashi, M., Xu, Y., Mino, Y., Matsuno, T., Watanabe, Y. and Yoo, S. (2014): Influence of the Changjiang River on the light absorption properties of phytoplankton from the East China Sea. **Biogeosciences**, Vol. 11, pp. 1759-1773.
13. Siswanto, E., Ishizaka, J., **Tripathy, S.C.** and Miyamura, K. (2013): Detection of harmful algal blooms of *Karenia mikimotoi* using MODIS measurements: a case study of Seto-Inland Sea, Japan. **Remote Sensing of Environment**, Vol. 129, pp. 185-196.
12. **Tripathy, S.C.**, Ishizaka, J., Shibata, T., Siswanto, E. and Mino, Y. (2012): Modification of the vertically generalized production model for the turbid water of Ariake Bay, southwestern Japan. **Estuarine, Coastal and Shelf Science**, Vol. 97, pp. 66-77.

11. Shibata, T., **Tripathy, S.C.**, Ishizaka, J. (2010): Phytoplankton pigment change as a photoadaptive response to light variation caused by tidal cycle in Ariake Bay, Japan. **Journal of Oceanography**, Vol. 66, pp. 831-843.
10. **Tripathy, S.C.**, Ishizaka, J., Shibata, T., Fujiki, T., Okamura, K., Hosaka, T. and Saino, T. (2010): Assessment of carbon- and fluorescence-based primary productivity in Ariake Bay, southwestern Japan. **Estuarine, Coastal and Shelf Science**, Vol. 87, pp. 163-173.
9. Tan, C.K., Ishizaka, J., Manda, A., Siswanto, E. and **Tripathy, S.C.** (2007). Assessing post tsunami effects on ocean color at eastern Indian Ocean using MODIS Aqua satellite. **International Journal of Remote Sensing**, Vol. 28(13, 14), pp. 3055-3069.
8. Tan, C.K., Ishizaka, J., Varis, R., Tong, P.H.S., **Tripathy, S.C.** and Siswanto, E. (2006): Oceanographic events at northern Borneo and their relationship to harmful algal blooms. **Proceedings of ISRS-PORSEC** held at Busan (October), South Korea, pp. 491-494.
7. Tong P.H.S., Lau V.K., Hoang X.B., Tan C.K., Ishizaka, J., Varis, R. and **Tripathy, S.C.** (2006): A discussion on the main reasons causing the mass mortality of corals and benthos in Condao Island during October 2005. **Proceedings of ISRS-PORSEC** held at Busan (October), South Korea, pp. 463-466.
6. Sarma, V.V., Sadhuran, Y., Sravanthi, N.A. and **Tripathy, S.C.** (2006). Role of physical processes in the distribution of chlorophyll a in the northwest Bay of Bengal during pre and post monsoon seasons. **Current Science**, Vol. 91(9), pp. 1133-1134.
5. **Tripathy, S.C.**, Kusuma kumari, B.A.V.L., Sarma, V.V. and Raman Murty T.V.R. (2006). Evaluation of trophic state and plankton abundance from the environmental parameters of Visakhapatnam harbor and near-shore waters, East coast of India. **Asian Journal of Microbiology, Biotechnology and Environmental Science**, Vol. 7(7), pp. 831-838.
4. Ray, A.K., **Tripathy, S.C.**, Patra, S. and Sarma, V.V. (2005). Assessment of Godavari estuarine mangrove ecosystem through trace metal studies. **Environment International**, Vol. 32, pp. 219-223.
3. **Tripathy, S.C.**, Ray, A.K., Patra, S. and Sarma, V.V. (2005). Water quality assessment of Gautami-Godavari mangrove estuarine ecosystem of Andhra Pradesh, India during September 2001. **Journal of Earth System Science**, Vol. 114(2), pp. 185-190.
2. **Tripathy, S.C.** (2004). Can Bakhira Bird Sanctuary safeguard the purple moorhens? **Current Science**, Vol. 86(3), pp. 367-368.
1. **Tripathy, S.C.** (2004): Measurement of bio-optical parameters and their comparison with satellite derived products for the waters off Dona Paula, Goa. **Nature, Environment and Pollution Technology**, Vol. 3(3), pp. 287-291.

Web-portals: <http://www.ncpor.res.in/profiles/details/113>

<http://scholar.google.com/citations?user=pNlEnNcAAAAJ>

[https://www.researchgate.net/profile/Sarat\\_Tripathy](https://www.researchgate.net/profile/Sarat_Tripathy) <https://orcid.org/0000-0002-2437-8660>

#### OTHER SCIENTIFIC ARTICLES (IN TECHNICAL REPORTS, MAGAZINES, NEWSLETTERS ETC):

9. **S.C. Tripathy**, A.U. Kerkar and P. Sabu (202x): Temporal variation of bio-optical parameters in Prydz Bay: a 72h time series study in the Indian sector of Southern Ocean. In *Technical/Scientific Report of the 9<sup>th</sup> Indian Scientific Expedition to Southern Ocean*. ©NCPOR, [In Press with NISCAIR].



8. **S.C. Tripathy**, S. Patra and R.K. Mishra (202x): Studies on phytoplankton productivity and physiology in the Indian sector of Southern Ocean. In *Technical/Scientific Report of the 8<sup>th</sup> Indian Scientific Expedition to Southern Ocean*. ©NCPOR, [In Press with NISCAIR].
7. N. Anilkumar, **S.C., Tripathy**, R.K., Mishra (2019): Process studies in the Southern Ocean. In *GnY, (GEOGRAPHY and YOU: special issue on NCPOR)*, Vol. 19, Issue 16, No. 127 (February), pp. 14-20.
6. **S.C. Tripathy**, C.K. Haridevi & R.K. Mishra (2016): Latitudinal distribution of surface PAR and its relation with phytoplankton biomass and productivity. In: Anilkumar, N. and Tripathy, S.C. (Eds.), *Technical publication of the 7<sup>th</sup> Indian Southern Ocean Expedition (2013)*, pp. 27-29, ISBN: 978-93-5267-057-4.
5. V. Venkataramana, **S.C. Tripathy**, H.U.K. Pillai & C. Santhosh Kumar (2016): Distribution of copepod community structure in frontal systems of the Indian Ocean sector of Southern Ocean. In: Anilkumar, N. and Tripathy, S.C. (Eds.), *Technical publication of the 7<sup>th</sup> Indian Southern Ocean Expedition (2013)*, pp. 30-36, ISBN: 978-93-5267-057-4.
4. N. Anilkumar, J.V. George, **S.C. Tripathy**, P. Sabu, R.K. Naik, P.V. Bhaskar & S. Rajan (2015): Hydrodynamics and Biogeochemistry of the South West Tropical Indian Ocean region: A Perspective. The *Indian Ocean Bubble* 2, issue 3 (August), pp. 6-7, newsletter published by ESSO-INCOIS, Hyderabad.
3. S. Pavithran, H.U.K. Pillai, M. Nanajkar, **S.C. Tripathy** and C.T. Achuthankutty (2014): Studies on Biogeochemistry and Hydrodynamics of the Indian sector of the Southern Ocean (Part-III Biological Productivity). *Technical Report on 4<sup>th</sup> Indian Expedition to the Southern Ocean (2010)*, pp. 13-18, ISBN: 978-93-5156-583-3.
2. S. Pavithran, C.K. Haridevi, **S.C. Tripathy**, H.U.K. Pillai and C.T. Achuthankutty (2014): Studies on Biogeochemistry and Hydrodynamics of the Indian sector of the Southern Ocean (Part-III: Biological Productivity and Food-web Dynamics (Primary Production)). *Technical Report on 5<sup>th</sup> Indian Expedition to the Southern Ocean during (2011)*, pp. 23-24, ISBN: 978-93-5156-520-8.
1. H.U.K. Pillai, S. Pavithran, **S.C. Tripathy** and C.T. Achuthankutty (2014): Studies on Biogeochemistry and Hydrodynamics of the Indian sector of the Southern Ocean (Part-3: Biological Productivity and Food-web Dynamics (Mesozooplankton)). *Technical Report on 5<sup>th</sup> Indian Expedition to the Southern Ocean during (2011)*, pp. 24-27, ISBN: 978-93-5156-520-8.

#### CONFERENCE/SEMINAR/WORKSHOP PRESENTATIONS:

- **Tripathy, S.C. et al** (2019): Biophysical control on variability in phytoplankton production and composition in the south-western tropical Indian Ocean during monsoon 2014. Oral presentation in OSICON-2019 held in CMLRE, Kochi, during December, 12-14, 2019. [O]
- **Tripathy, S.C. et al** (2019): Variability of bio-optical properties and phytoplankton community structure in the Arctic fjords during summer 2016. Oral presentation in MARICON-2019 held at CUSAT, Kochi during December 16-20, 2019. [O]
- **Tripathy, S.C** and Jena, B (2019): Iron stimulated phytoplankton blooms in the Southern Ocean: a brief review. Presented the paper in the National Polar Science Conference (NCPS-2019) held at NCPOR during August 20-22, 2019. [O]

- **Tripathy, S.C.** (2018): Primary productivity and Bio-optical studies in the Kongsfjorden and Krossfjorden, Arctic. Information & Preparatory Event-Horizon 2020 call on Arctic, 19-20 November, ESSO-NCPOR. [O]
- **Tripathy, S.C.** (2018): Nitrogen uptake by phytoplankton in surface waters of the Indian sector of Southern Ocean during austral summer. NOW-2018, 14-16 November, ESSO-INCOIS, Hyderabad. [P]
- **Tripathy, S.C.** (2018): Salient findings from the Indian Southern Ocean Expeditions. India-USA colloquium: Earth Observations & Sciences for Society and Economy, 11-13 June, CSIR-NIO, Goa. [O]
- **Tripathy, S.C.**, Pavithran, S., Sabu, P., Pillai, H.U.K., Dessai, D.R.G., Anilkumar, N. (2017): Deep chlorophyll maximum and primary productivity in Indian sector of the Southern Ocean: Case study in the Subtropical and Polar Front during austral summer 2011. SCAR Biology symposium, 10-14 July 2017, KU Leuven, Leuven, Belgium. [O]
- **Tripathy, S.C.**, Patra, S., Vishnu Vardhan, K., Sarkar, A., Mishra, R.K., Anilkumar, N. (2017): Nitrogen uptake by phytoplankton in surface waters of the Indian sector of Southern Ocean during austral summer. National Conference on Polar Sciences, 16-17 May 2017, NCAOR, Goa. [O]
- **Tripathy, S.C.**, Patra, S., Sabu, P., Naik, R.K., Sarkar, A., Venkataramana, V., Anilkumar, N. (2015): Variation of phytoplankton biomass and production in the Southwestern Tropical Indian Ocean during monsoon 2014. IO50 symposium (*Dynamics of the Indian Ocean: Perspective and Retrospective*), 30 Nov. to 04 Dec. 2015, NIO, Goa. [P]
- V. Venkataramana, **Tripathy, S.C.**, and Anilkumar, N. (2015). Diel variation in surface zooplankton abundance, biomass and community structure in the South Western tropical Indian Ocean during June 2014. IO50 symposium (*Dynamics of the Indian Ocean: Perspective and Retrospective*), 30 Nov. to 04 Dec. 2015, NIO, Goa. [P]
- **Tripathy, S.C.** and Anilkumar, N. (2015): Deep chlorophyll maximum and primary productivity in Indian Ocean sector of the Southern Ocean: Case study in the Subtropical and Polar Front during austral summer 2011. Surface flux workshop, 21-23 Sept. 2015, ESA, ESRI, Frascati, Italy. [P]
- **Tripathy, S.C.** (2014): Southern Ocean Primary Production: Its role in Global Climate Change. National Hindi Scientific seminar, 30-31 July, IITM, Pune. [P]
- Sukigara, C., Mino, Y., **Tripathy, S.C.**, Ishizaka, J. and Matsuno, T. (2012): Sinking processes of the particulate matters in the center of the East China Sea. KJWOC workshop, 29-30 November, HyARC, Nagoya University, Japan. [O]
- Sukigara, C., Mino, Y., **Tripathy, S.C.**, Ishizaka, Z. and Matsuno, T. (2012): Sinking processes of the particulate matters in the center of the East China Sea. JOS meeting, 29 March – 03 April, Tsukuba University, Japan. [O]
- **Tripathy, S.C.**, Ishizaka, J., Shibata, T., Siswanto, E. and Mino, Y. (2010): Modification of vertically generalized production model for turbid water of Ariake Bay, southwestern Japan. PICES meeting, 22-31 October, Portland, Oregon, USA. [P]
- Shibata, T., **Tripathy, S.C.**, Ishizaka, J. (2010): Phytoplankton pigment change as a response to light variation caused by tidal cycle in Ariake Bay, Japan. JOS meeting, 25-30 March, Tokyo, Japan. [O]
- Matsuno, T., Endoh, T., Tsutsumi, E., Fukudome, K., Ishizaka, J., Yamaguchi, H., **Tripathy, S.C.**, Han, I. S., Lee, J.H., Jang, S.T., Kim, S.H. (2009): Vertical transport of subsurface nutrients in the East China Sea shelf for the primary production. PICES meeting, 23 October – 01 November, Jeju, Republic of Korea. [P]

- Ishizaka, J., Yamaguchi, H., **Tripathy, S.C.**, Makino, T., Matsuno, T., Endoh, T. (2009): Short- term variability of primary production of Changjiang River plumes in the East China Sea observed in summer 2008. PICES meeting, 23 October – 01 November, Republic of Korea. [P]
- Ishizaka, J., Yamaguchi, H., Makino, T., **Tripathy, S.C.**, and Matsuno, T. (2009): Time changes of chlorophyll a and nutrients on the shelf: preliminary results of KT-08-19. Conference on East China Sea, 22-23 April, Nagoya University, Japan. [O]
- **Tripathy, S.C.**, Ishizaka, J., Saino, T., Fujiki, T., Okamura, K., and Shibata, T. (2008): Factors influencing carbon- and fluorescence-based primary production in Ariake Bay, southwestern Japan. PORSEC, 2-6 December, Guanzhou, China. [P]
- **Tripathy, S.C.**, Ishizaka, J., Saino, T., Fujiki, T., Okamura, K., Shibata, T., Hosaka, T. (2008): Factors influencing carbon- and fluorescence-based primary productivity in Ariake Bay. JOS meeting, 24-29 September, Hiroshima, Japan. [O]
- **Tripathy, S.C.**, Ishizaka, J., Saino, T., Fujiki, T., Okamura, K., and Shibata, T. (2008): Assessment of carbon- and fluorescence-based primary production in the Ariake Bay, Japan. 3<sup>rd</sup> KJWOC workshop, 22-23 January, Tokyo, Japan. [O]
- **Tripathy, S.C.**, J. Ishizaka and T. Saino (2006): Estimation of daily primary production using profiling buoy system: a case study in Sagami Bay. 2<sup>nd</sup> KJWOC, 19-20 December, Jeju, Republic of Korea. [O]
- Tan, C.K., J. Ishizaka, L.C. Quah, E. Siswanto, and **Tripathy, S.C.** (2006): Influence of Northeast Monsoon Wind on the Chlorophyll a Variation at Northern Malacca Straits. Symposium on Asian Winter Monsoon (Winter MONEX): A quarter Century and Beyond (WMONEX 25+), 4-7 April, Kuala Lumpur, Malaysia. [P]
- Tan, C.K., J. Ishizaka, Siswanto, E. and **Tripathy, S.C.** (2006): Assessment of Tsunami effects on surface chlorophyll a and sedimentation in the eastern Indian Ocean using MODIS satellite. International Workshop: Post-Disaster Assessment and Monitoring of Coastal Ecosystems and Biological and Cultural Diversity in the Indian Ocean and Asian Waters, 20-24 February, Phuket, Thailand. [O]
- **Tripathy, S. C.**, J. Ishizaka, T. Saino and K. Okamura (2005). Estimation of primary production and phytoplankton photosynthetic parameters in the case II waters of Ariake bay by Fast Repetition Rate Fluorometer. JOS meeting, 26-30 March, Yokohama, Japan. [P]
- **Tripathy, S.C.**, Choudhury, B.C. and Hussain, S.A. (2001): Inland wetland conservation and management in Uttar Pradesh. Training programme on wetland conservation and management, 19 November - 02 December, WII, Dehradun, India. [O]
- **Tripathy et. al.** (2000): Measurement of bio-optical parameters and their comparison with SeaWiFs derived products for the waters off Dona Paula, Goa. Remote sensing and its application to ocean studies: training programme on IRS-P4, 21 February - 10 March, NIO, Goa, India. [O]

#### **INVITED TALKS DELIVERED:**

- 2020: 'Southern Ocean: Carbon & Climate' in the Webinar "*Aquatic Ecosystem: Prospect & Future Challenges*" organised by the Marine Ecology Laboratory, Presidency University, Kolkata during July 18-19, 2020.
- 2020: "*Oceans in the wake of climate change: Challenges and solutions*" during 26.08.2020 to 28.08.2020 at Fisheries College & Research Institute, Tamilnadu, Dr. J. Jayalalithaa Fisheries University, Thoothukudi.



- 2019: Salient findings of Indian Southern Ocean Expeditions: Special emphasis on phytoplankton productivity. At SaGHAA-V, held at IIC, New Delhi during February 26-27, 2019.
- 2019: Role of Southern Ocean in global climate change: salient findings from Indian Southern Ocean Expeditions. At KUFOS-INCOIS Centre, KUFOS, Kochi during January 17-18, 2019.
- 2017: Response of Southern Ocean to climate change scenario: perspectives from Indian Southern Ocean Expeditions. At SaGHAA-IV, held at JNU, New Delhi during 30<sup>th</sup> Nov. 30 to 1<sup>st</sup> Dec, 2017.
- 2017: 9<sup>th</sup> Indian Southern Ocean Expedition: An Overview. At Mauritius Oceanography Institute (MOI), Mauritius on February 28, 2017.
- 2015: 8<sup>th</sup> Indian Southern Ocean Expedition: An Overview. At Mauritius Oceanography Institute (MOI), Mauritius on February 24, 2015.

#### BOOKS AND TECHNICAL REPORTS EDITED:

- N. Anilkumar and **S.C. Tripathy** (2021): Southern Ocean Expedition (2015-16). *Technical/Scientific Report of the 8<sup>th</sup> Indian Scientific Expedition to Southern Ocean*. ©NCPOR, ISBN: xxx [In Preparation].
- N. Anilkumar and **S.C. Tripathy** (2021): Southern Ocean Expedition (2016-17). *Technical/Scientific Report of the 9<sup>th</sup> Indian Scientific Expedition to Southern Ocean*. ©NCPOR, ISBN: xxx [In Preparation].
- **S.C., Tripathy**, N. Anilkumar (2019): CLIVAR/CliC/SCAR Southern Ocean Region Panel (SORP) National activities report. DOI:10.13140/RG.2.2.10055.55203.
- N. Anilkumar and **S.C. Tripathy** (2016): Southern Ocean Expedition (2013-14). *Technical/Scientific Report of the 7<sup>th</sup> Indian Scientific Expedition to Southern Ocean*. ©NCAOR, ISBN: 978-93-5267-057-4, pp. 131.
- **Tripathy, S.C.**, Mishra, R.K., Mohan, R. and Khare, N. (2013): Studies in Biological Sciences and Human Physiology: Three Decades of Indian Scientific Activities in Antarctica. *A book on Antarctic biology*. ©NCAOR, ISBN: 978-81-906526-8-1.

#### THESIS (Ph.D.) EXAMINER: [Theses Evaluated: 13]

- Indian Institute of Technology (IIT), Madras [2013, 2016, 2017, 2018(2), 2019].
- Adikavi Nannaya University, Rajahmundry [2015].
- Andhra University, Visakhapatnam [2017].
- Cochin University of Science and Technology (CUSAT), Kochi [2015, 2017].
- Bharathidasan University, Tiruchirappalli [2019(2), 2020].

#### JOURNAL REVIEWER:

- Chem. Ecol., Environ. Int., J Oceanogr., EMAS, Est. Coast. Shelf Sc., Rem. Sen. Env., Limnol. Oceanogr., I J Geo-Mar. Sc., STOTEN, JGR-Biogeosciences, JQSRT, J Coast. Res., GRL, Mar. Pol. Bull., J. Phycol.
- **Review Editor:** *Frontiers in Marine Science (Specialty: Marine Ecosystem Ecology)*

#### PROFESSIONAL MEMBERSHIPS:

- Leadership: Southern Ocean Indian Sector (SOIS)-Working Group. [May 2020-Present]
- Member of Advisory Board and Scientific Committee of Amity University. [December 2019-Present]

- National Representative: CLIVAR/CliC/SCAR Southern Ocean Region Panel (SORP). [Dec 2018-Present]
- National Representative: SCAR-SSG Life Sciences. [Dec 2017-Present]

#### **RECOGNIZED GUIDE FOR Ph.D:**

- Goa University (Marine Biology)
- Mangalore University (Biosciences)
- Pune University (Environmental Science)

#### **RESEARCH CAPACITY BUILDING:**

- |                                |                      |                                |
|--------------------------------|----------------------|--------------------------------|
| ➤ Dr. Jane Theophline Bhaskar: | Post Doctoral Fellow | [DST Woman Scientist Scheme-A] |
| ➤ Ms. Anvita Ulhas Kerkar:     | Ph.D. Scholar        | [DST-INSPIRE Fellow]           |
| ➤ M.Sc. Dissertation Guided:   | 03                   |                                |

#### **SCIENTIFIC PROJECTS INVOLVED:**

- Hydrodynamics and Biogeochemistry of the Indian sector of Southern Ocean [**Co-PI, MoES Funded**].
- In situ and satellite-based primary productivity and bio-optical studies for understanding dynamics of Kongsfjorden and Krossfjorden twin ecosystem [**PI, MoES Funded**].
- Benthic community structure and climate change mediated stresses on their physiological performances from the Prydz Bay, Indian sector of Southern Ocean during austral summer [**Co-PI, MoES Funded**]

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