



## **VANKARA VENKATARAMANA**

Project Scientist II

National Centre for Polar and Ocean Research,

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Ministry of Earth Sciences, Head land Sada,

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### **EDUCATION**

PhD (Zoology)

MSc (Zoology)

### **APPOINTMENTS**

2022 – Till date Project Scientist II at National Centre for Polar and Ocean Research (MoES), Goa. India

2013 – 2022 Project Scientist B at National Centre for Polar and Ocean Research (MoES), Goa. India.

2008 – 2013 Project Assistant at National Institute of Oceanography (CSIR), Visakhapatnam, India.

### **List of peer reviewed publications (2017 onwards)**

1. **V.Venkataramana**, R.K. Mishra, N. Anilkumar, Melena A. Soares, P. Sabu, A. Sarkar (2024) Hydrography of the Southern Ocean fronts – the zooplankton link: A detailed study in the Indian Ocean sector. **Progress in Oceanography**, 221, 103204.

2. Melena A. Soares, R.K. Mishra, P. Sabu, **V.Venkataramana**, R.K. Naik, A. Sarkar, R. Chacko, N. Anilkumar (2024) Nutrient dynamics and biogeochemical processes at the polar front of the Indian sector of the Southern Ocean: Influence of circumpolar deep water intrusion. **Polar Science**, 101130.
3. **V.Venkataramana**, L. Gawade, M.D. Bharathi, V.V.S.S. Sarma (2023) Role of salinity on zooplankton assemblages in the tropical Indian estuaries during post monsoon. **Marine Pollution Bulletin**, 190, 114816
4. Sreerag A, R.K. Mishra, R.K. Naik, **V.Venkataramana**, Melena A. Soares, Resha Mahale, N. Anilkumar, Mangesh Gauns (2023) Plankton diversity and dynamics in the upper surface of the Indian sector of the Southern Ocean ecosystem and biogeochemical processes. **Regional Studies in Marine Science**, 65, 103095.
5. **V. Venkataramana**, Anvita U. Kerkar, R.K. Mishra, P. Sabu, N. Anilkumar (2022) Hydrodynamics and zooplankton assemblages in the Prydz Bay, East Antarctica, during the austral summer of 2017. **Regional Studies in Marine Science**, 52, 102341
6. R.K. Mishra, B. Jena, **V.Venkataramana**, A. Sreerag, S. Melena Augusta, N. Anilkumar (2022) Decadal changes in global phytoplankton compositions influenced by biogeochemical variables. **Environmental Research**, 206, 112546
7. M.D. Bharathi, **V.Venkataramana**, V.V.S.S. Sarma (2022) Phytoplankton community structure is governed by salinity gradients and nutrient composition in the tropical estuarine system. **Continental Shelf Research**, 234, 104643.
8. **V.Venkataramana**, R.K. Mishra, P. Sabu, N. Anilkumar, A. Sarkar, R.K. Naik, S. Melena Augusta, L. Gawade (2021). Stratification governs the plankton community structure and tropic interaction in the south western tropical Indian Ocean during boreal summer. **Regional studies in Marine Science**, 48, 101987.
9. **V.Venkataramana**, V.V.S.S. Sarma, L. Gawade, A. Matta Reddy (2021). Magnitude of river discharge determines the food habit and community composition of

zooplankton in the Indian estuaries during monsoon. **Estuarine, Coastal and Shelf Science**, 262, 107601.

10. Anvita U. Kerkar, **V. Venkataramana**, Sarat C. Tripathy (2021). Assessing the trophic link between primary and secondary producers in the Southern Ocean: A carbon biomass based approach. **Polar Science**, 31, 100734.
11. Melena A. Soares, P.Sabu, N. Anilkumar, R.K. Mishra, R.K. Naik, P.V. Bhaskar, Jenson V. George, **V. Venkataramana**, A. Sarkar (2021). Variation of particulate organic matter characteristics in the upper water column of eddy-influenced waters at the subtropical front of the Indian sector of the Southern Ocean. **Journal of Sea Research**, 174, 102074.
12. **V.Venkataramana**, N. Anilkumar, K. Swadling, R.K. Mishra, S.C. Tripathy, A. Sarkar, S. Melena Augusta, P. Sabu, Honey U.K. Pillai (2020). Distribution of zooplankton in the Indian sector of the Southern Ocean. **Antarctic Science**, 32 (3), 168 – 179
13. R.K. Mishra, R.K. Naik, **V.Venkataramana**, Babula Jena, N. Anilkumar, S. Melena Augusta, A. Sarkar, A. Singh (2020) Phytoplankton biomass and community composition in the frontal zones of Southern Ocean. **Deep Sea Research II**, 178, 104799
14. S.C. Tripathy, P. Sabu, Sivaji Patra, R.K. Naik, A. Sarkar, **V.Venkataramana**, Anvita U. Kerkar, Pandi Sudarsanarao (2020) Biophysical control on variability in phytoplankton production and computation in the South-Western tropical Indian Ocean during monsoon 2014. **Frontiers In Marine Science**. <https://doi.org/10.3389/fmars.2020.00515>
15. **V. Venkataramana**, N. Anilkumar, R.K. Naik, R.K. Mishra, P.Sabu (2019). Temperature and phytoplankton size class biomass drives the zooplankton food web dynamics in the Indian Ocean sector of the Southern Ocean. **Polar Biology**, DOI: 10.1007/s00300-019-02472-w

16. Anvita U. Kerkar, **V. Venkataramana**, Sarat C. Tripathy (2019). Morphometric estimation of copepod carbon biomass in coastal Antarctica: a case study in Prydz Bay. **Journal of Crustacean Biology**, DOI: 10.1093/jcbiol/ruzo77
17. M.D. Bharathi, V.V.S.S. Sarma, K. Ramaneswari, **V. Venkataramana** (2018). Influence of river discharge on abundance and composition of phytoplankton in the western coastal Bay of Bengal during peak discharge period. **Marine Pollution Bulletin**, 133: 671 – 683.
18. **V. Venkataramana**, S.C. Tripathy, N. Anilkumar (2017). The occurrence of blue-pigmented *Pontella valida* Dana, 1852 (Copepoda: Calanoida: Pontellidae) in the equatorial Indian Ocean. **Journal of Crustacean Biology**, DOI 10.1093/jcbiol/rux037.
19. **V. Venkataramana**, V.V.S.S. Sarma, A. Matta Reddy (2017). Impact of river discharge on distribution of zooplankton biomass, community structure and food web dynamics in the Western coastal Bay of Bengal. **Regional Studies in Marine Science**, 16, 267-278
20. **V. Venkataramana**, V.V.S.S. Sarma, A. Matta Reddy (2017). River discharge as a major driving force on spatial and temporal variations in zooplankton biomass and community structure in the Godavari estuary India. **Environmental Monitoring and Assessment**, 189:474. DOI 10.1007/s10661-017-6170-5.

### **List of International conferences attended**

- **Hydrography of the Southern Ocean fronts – The zooplankton link : A study in the Indian Ocean sector**  
**V. Venkataramana et al.**  
Presented at International conference – Scientific Committee on Antarctic Research (SCAR-2022). **(a Virtual Conference)**

- **Role of salinity on zooplankton assemblages in the tropical Indian estuaries during post monsoon.**  
**V.Venkataramana et al.**  
Presented at Estuarine Coastal Sciences Association, At San Sebastian, Spain, during 5<sup>th</sup> September to 8<sup>th</sup> September 2022.
- **Role of planktons in mussel/oyster production in the estuaries.**  
**V.Venkataramana et al.**  
Presented at the Indo-German Joint workshop at Leibniz Centre for Tropical and Marine Research, Germany, during 23<sup>rd</sup> August to 25<sup>th</sup> August 2022.
- **Zooplankton assemblages and their driving factors in the Indian estuaries: A comparative study between peak river discharge and no river discharge**  
**V. Venkataramana et al.**  
Presented at International conference - Ocean Sciences Meeting (OSM-2022), held at United States of America (**a Virtual Conference**)
- **Diel variation in surface zooplankton abundance, biomass and community structure in the south western tropical Indian Ocean during June 2014**  
**V.Venkataramana et al.**  
Presented at Dynamics of the Indian Ocean: Perspective and Retrospective. International symposium on the Indian Ocean, held at National Institute of Oceanography, Goa, India-2015

#### **List of National conferences attended**

- **Hydrography and zooplankton assemblages in coastal waters of Antarctica during the sea ice melting season**  
**V. Venkataramana et al.**  
Presented at the Ocean Society of India (OSICON-2023), held at Indian National Centre for Ocean Information Service (INCOIS), India. During August 23-25, 2023.

- **Hydrodynamics and vertical distribution of zooplankton community structure in coastal Antarctica during the austral summer**

*V. Venkataramana et al.*

Presented at the National Conference on Polar Sciences (NCPS-2023), held at National Centre for Polar and Ocean Research, Goa, India. During May16 -19 2023.

- **Seasonal variation of zooplankton assemblages and their governing factors in the Indian estuaries**

*V. Venkataramana et al.*

Presented at the National Conference on Immunology, Aquatic toxicology and Biodiversity, hosted by Acharya Nagarjuna University, during 9<sup>th</sup> - 10<sup>th</sup> February 2023.

- **Inter-annual variation of zooplankton assemblages in the Indian sector of the Southern Ocean during austral summer**

*V. Venkataramana et al.*

Presented at the Ocean Society of India (OSICON-2021), held at National Centre for Polar and Ocean Research, Goa, India (**a Virtual Conference**)

- **Stratification governs the plankton community structure and trophic interaction in the Southwestern tropical Indian Ocean during monsoon season**

*V. Venkataramana et al.*

Presented at the Ocean Society of India (OSICON-2019), held at Centre for Marine Living Resources and Ecology, Cochi, India-2019.

- **Diel vertical migration of zooplankton in Prydz Bay (Indian Ocean sector, East Antarctica) during the austral summer of 2017**

*V. Venkataramana et al.*

Presented at the National Conference on Polar Sciences (NCPS-2019), held at National Centre for Polar and Ocean Research, Goa, India-2019.

- **Zooplankton biomass and community structure in frontal systems of the Indian sector of the Southern Ocean**

*V. Venkataramana et al.*

Presented at the Ocean Society of India (OSICON-2017), held at National Centre for Earth Science Studies, Thiruvananthapuram, India-2017.

- **Vertical profile of zooplankton biomass and copepod community structure in the Indian Ocean sector of Southern Ocean**

*V. Venkataramana et al.*

Presented at the National Conference on Polar Sciences (NCPS-2017), held at National Centre for Antarctic and Ocean Research, Goa, India-2017.

- **Intra annual variation in mesozooplankton abundance in the Godavari estuary.**

*V. Venkataramana et al.*

Presentation at P.N. Ganapathi Centennial Commemoration -2010, hosted by department of zoology, Andhra University, Visakhapatnam, India.

### **Professional Trainings**

- Participated in **AZTI Summer School 2022**, addressing the cumulative impacts of multiple human pressures in marine systems. Held in the Aquarium, San Sebastian, Spain, on the 8<sup>th</sup> and 9<sup>th</sup> September 2022.

- Virtual training lecture on **Techniques in Intensive Production of Marine Copepods (TIPMAC 2020)**

Organized by Marine Planktonology & Aquaculture Laboratory, Department of Marine Science, Bharathidasan University, Tamil Nadu, during 17<sup>th</sup> June – 19<sup>th</sup> June 2020

- Training program on **Coastal and Marine Ecology, Resources and communities**

Organized by government of Andhra Pradesh, Forest department, India. Period of 11<sup>th</sup> -14<sup>th</sup> September 2012

- Training Program on **Zooplankton Identification and Taxonomy** from National Institute of Oceanography Goa. India. September-October, 2009

**Scientific Cruises\field work experience**

- ❖ CRV Sagar Paschimi : December 2008 (Bay of Bengal)
- ❖ CRV Sagar Paschimi : December 2009 (Bay of Bengal)
- ❖ ORV Sagar Nidhi : August 2010 (Bay of Bengal)
- ❖ CRV Sindhu Sankalp : November 2011 (Bay of Bengal and Arabian sea)
- ❖ ORV Sagar Nidhi : June 2014 (Indian Ocean)
- ❖ ORV Sagar Nidhi : January 2015 (Southern Ocean)
- ❖ ORV Sagar Nidhi : December 2015 (Indian Ocean)
- ❖ ORV S.A. Agulhas : January 2017 (Southern Ocean)
- ❖ ORV S.A. Agulhas : January 2018 (Southern Ocean)
- ❖ ORV S.A. Agulhas : January 2020 (Southern Ocean)
- ❖ Indian Arctic Expedition : 22<sup>nd</sup> May to 23<sup>rd</sup> June 2023 (Arctic)
- ❖ Indian Arctic Expedition : 29<sup>th</sup> July to 29<sup>th</sup> August 2024 (Arctic)

Place: Goa, India.

V. Venkataramana  
**Signature of the applicant**