

## Curriculum Vitae

### SHRAMIK PATIL

**Contact details:** Email- [shramikpatil@gmail.com](mailto:shramikpatil@gmail.com) Ph- (+91) 9764596405

**Education:** B.Sc. (Hons.) Shivaji University, Kolhapur, India, 2005, 1<sup>st</sup>, Zoology  
M.Sc Karnataka University, Dharwad, India, 2007, 1<sup>st</sup>, Marine Biology  
PhD Goa University, Goa, India, 2015, Marine Science

**Qualification:** Skilled and experienced in Southern Indian Ocean oceanography, identification of coccolithophores and diatoms, Identification of nannofossil biomarkers (Triassic to recent) using light microscopy and electron microscopy, use of nannofossils in paleoceanographic interpretations.

### Professional Experience

**2007-2009-** Research fellow in the project: Biogeochemistry and hydrodynamics of tropical Indian Ocean during northeast and southwest monsoon.

**2009-2015-** Research fellow in the project “Extant coccolithophores in the Southern Indian Ocean”.

### Current Research Interest:

1. Coccolithophore species distribution in the water and in the sediments as indicator for climate induced changes in marine productivity and oceanic ecosystem structure.
2. Paleoclimate and paleoproductivity reconstruction using coccoliths as proxy.
3. Past hydrographic changes in Southern Ocean, oceanic frontal dynamics, teleconnection between different sectors of the Southern Ocean.
4. Coccolithophore calcification and its relationship with physico-chemical parameters.
5. Fate of coccolithophores in the future oceans.

**Publications:** About 13 published papers, 4 abstracts, 4 international and 3 national conference

**Awards:** 1<sup>st</sup> prize for poster presented at IPY conference, Montreal Canada (21-27 April 2012)  
Inspire faculty award, INSA, Department of Science and Technology, 2016

### Membership:

Member of International Nannoplankton Association (INA) Member of Association of Polar Early carrier scientist (APECS).

## Publications:

- **ShramikPatil**, Rahul Mohan, SuhasShetye, SahinaGazi, Syed Jafar. “Xenospheres and anomalous coccospheres from plankton samples of the Southern Indian Ocean” (In press-Journal of Nannoplankton Research).
- Suhas S. Shetye, Rahul Mohan, **ShramikPatil** et al, (2015) Inter-seasonal biogeochemical changes in the Indian Sector of Southern Ocean. Deep Sea Research-II, 118B, pp. 250-260.
- **ShramikPatil**, Rahul Mohan, SuhasShetye, SahinaGazi, Syed Jafar. (2015) *Prymnesiumneolepis* (Prymnesiophyceae), a siliceous Haptophyte from the Southern Indian Ocean. Micropaleontology vol. 60, no. 5 pp. 475-481.
- **ShramikPatil**, Rahul Mohan, SahinaGazi, SuhasShetye, Syed Jafar. (2015) *Petasariaheterolepis* (Prymnesiaceae) from the Southern Indian Ocean. Micropaleontology vol. 61, no. 3 pp. 171-176.
- **ShramikPatil**, Rahul Mohan, SuhasShetye, SahinaGazi, Syed Jafar. (2014) Morphological variability of *Emilianiahuxleyi* in the Indian Sector of the Southern Ocean during the austral summer of 2010. Marine Micropaleontology 107:44-58.
- SuhasShetye, Rahul Mohan, Syed A. Jafar, Abhilash Nair, **ShramikPatil**, Rajesh Asthana, SahinaGazi. (2014) Diatom bloom driven Silica depletion under Antarctic sea ice: evidence from Sponge spicules. Current Science 107(2), 273-277.
- **ShramikPatil**, Rahul Mohan, SuhasShetye, SahinaGazi. (2014) Calcification and Variability of Coccolithophorid *Emilianiahuxleyi* in the Southern Indian Ocean during Austral Summer. Southern Ocean Technical Report, NCAOR.
- SuhasShetye, Rahul Mohan, **ShramikPatil**. (2014) Phytoplankton distribution in coastal Antarctica during austral summer 2010, Southern Ocean Technical Report, NCAOR.
- **ShramikPatil**, Rahul Mohan, SuhasShetye, SahinaGazi. (2013) Phytoplankton abundance and community structure in the Antarctic polar frontal region during austral summer of 2009. Chinese Journal of Oceanology and Limnology 31(1), 21-30.
- Jenson V. George, M. Nuncio, Racheal Chacko, N. Anilkumar, Sharon B. Noronha, **ShramikPatil**, Sini Pavitran, Denny P. Alappattu, K.P. Krishnan, C.T. Achutankutty. (2013) Role of physical processes in chlorophyll distribution in western tropical Indian Ocean. Journal of Marine Systems, 113-114, 1-12.
- Naveen Gandhi, R. Ramesh, A. H. Laskar, M. S. Sheshshayee, SuhasShetye, N. Anilkumar, **Shramik M. Patil**, Rahul Mohan. (2012) Zonal variability in productivity and nitrogen uptake rates in the southwestern Indian Ocean and Southern Ocean. Deep Sea Research I v. 67, pp-32-43.
- SuhasShetye, MarathaduSudhakar, **ShramikPatil**, AmzadLaskar, Rengaswamy Ramesh. (2012) Sea Surface pCO<sub>2</sub> in the Indian Sector of the Southern Ocean during Austral Summer of 2009. Advances in Geosciences 28, 79-92.

- Mohan, R, Shukla S.K., **Patil S.M.**, Shetye S.S., Kerkar K.K., Ravindra, R. (2011) Diatoms from surface sediments of Enderby Basin of Indian Sector of Southern Ocean. J. Geol. Soc. Ind. July 2011, Vol. 78, pp.36-44.
- Mohan, R., Shukla, S.K., **Patil, S.M.**, Shetye, S.S., Kerkar K.K. and Ravindra, R. (2010) Diatom Morphometry and its application in deciphering past climatic changes. Gond. Geol. Mag. V.25 (1), Special Issue on Applied Micropaleontology June, 2010 Vol- 25(1), pp-133-138.

### Conferences/poster presentations:

- **Shramik M. Patil**, Sushant S. Naik and Rahul Mohan. Changes in coccolithophore abundance in the Southern Atlantic during the Late Quaternary and its paleoclimatic significance (International Symposium of Antarctic Earth Sciences, Goa, India) (13-17 July, 2015).
- **Shramik M. Patil**, Rahul Mohan, SahinaGazi and Syed A. Jafar. Xenospheres (coccolithophores) from plankton samples of the Southern Indian Ocean [International Nannoplankton Association Meeting (INA-15), Bohol, Philippines] (7-14 March, 2015)
- **Shramik M. Patil**, Rahul Mohan, SahinaGazi, SuhasShetye, Syed A. Jafar *Petasariaheterolepis* (Prymnesiaceae) from the Southern Indian Ocean [International Nannoplankton Association Meeting (INA-15), Bohol, Philippines] (7-14 March, 2015)
- **ShramikPatil**, Rahul Mohan, SuhasShetye, SahinaGazi, Syed Jafar. *Emilianiahuxleyi* variation and its expanse in Southern Indian Ocean during austral summer of 2009, 2010 and 2012. (SCAR Open Science Conference, Auckland, New Zealand) (25-29 August, 2014).
- SahinaGazi, **ShramikPatil**, Rahul Mohan, Syed Jafar. Scanning electron microscopic observations of rarely silicifying haptophytes from the Southern Indian Ocean. (International Conference on Electron Microscopy, New Delhi, India) (9-11 July 2014).
- **ShramikPatil**, Rahul Mohan, SuhasShetye, SahinaGazi, Syed A. Jafar. *Prymnesiumneolepis*: a siliceous haptophyte from Southern Indian Ocean. (Indian colloquium on Micropaleontology and Stratigraphy), WIHG, Dehradun, India) (18-21 November, 2013).
- **ShramikPatil**, Rahul Mohan, SuhasShetye, SahinaGazi, Syed A. Jafar. Morphotype variation of *Emilianiahuxleyi* in the Indian sector of Southern Ocean during austral summer of 2010. (Indian colloquium on Micropaleontology and Stratigraphy, WIHG, Dehradun, India) (18-21 November, 2013).
- **ShramikPatil**, Rahul Mohan, SahinaGazi. Calcification and variability of coccolithoporid *Emilianiahuxleyi* in Southern Indian Ocean during Austral Summer (International Polar Year Conference, Montreal, Canada) (21-27 April, 2012).

(1<sup>st</sup> Price, Best Poster Award)

- **Shramik M. Patil**, Sharon B. Noronha, ZeenaJayan, K.P.Krishnan\* and N.Anilkumar “Biogeochemical forcing in tropical Indian Ocean during summer and winter monsoons” (National Conference on Climate change, Goa, India) (21-23 October, 2009).

### Abstracts

- **ShramikPatil**, Rahul Mohan, SuhasShetye, SahinaGazi, Diversity, abundance and southern extent of calcifying algae (Coccolithophore) in the Indian sector of Southern Ocean (SCAR Open Science Conference, Portland, USA) (16th to 19th July, 2012).
- SuhasShetye, Rahul Mohan, **ShramikPatil**, Rajesh Asthana and Rasik Ravindra. Biogeochemical conditions under sea ice in Antarctica during late austral summer of 2012(AOGS-AGU (WPGM) Joint Assembly 2012) (13-17 August, 2012).
- SuhasShetye, MarathaduSudhakar, **ShramikPatil**, AmzadLaskar, Rengaswamy Ramesh, Physical or Biological processes determine the sea surface pCO<sub>2</sub> in the Indian Sector of the Southern Ocean?, (Abstract AOGS, Aug.9-2011), (Taiwan)
- K.P.Krishnan,S.M.Singh, **SharmikM.Patil** and Rasik Ravindra (2008).Community Level Physiological Profiling of lakes in the Larsemann Hills region, East Antarctica. SCAR/IASC IPY Open Science Conference, St. Petersburg, Russia. July 8-11, 2008.