Bijesh C M

Curriculum Vitae



Project Scientist-I National Center for Polar and Ocean Research Ministry of Earth Science Goa, India Mobile No. +91 9962876370 ∑ <u>bijeshcm@gmail.com</u> <u>https://scholar.google.com/citations?user=926ulTsAAAAJ&hl=en</u> <u>https://www.researchgate.net/profile/Bijesh-C-M</u>

Education

November 2017 –	Ph.D. in Marine Science, Goa University, Goa, India (Submitted)			
May 2022	Title: Morphotectonic architecture and evolution of the postulated			
	microcontinental blocks and deep offshore regions adjacent to the			
	southwestern continental margin of India and its conjugate regions of			
	Madagascar			
2010-12	Master of Science in Marine Geophysics, Cochin University of Science			
	and Technology, Kerala, India (7.72 CGPA).			

2007-10 Bachelor of Science in Physics, Calicut University, Kerala, India (88 %).

Research Experience

2022-Present	Project Scientist I, National Center for Polar and Ocean Research,
	Goa, India
2015-2022	Project Scientist B, National Center for Polar and Ocean Research,
	Goa, India
2013-2015	Project Scientist B, National Institute of Ocean Technology, Chennai, India
2012-2013	Project Assistant II, CSIR-National Institute of Oceanography, Goa, India

Research Interests

- Marine Geophysics
 Plate Tectonics
 - Submarine Geomorphology and Geohazards

Professional Training / Courses

Training on	•	Multibeam Echo-sounder (Reson) & PDS:	Delivered by Reson at
		Chennai, Tamil Nadu, India in 2013.	

- Marine GIS; Delivered by IIC Technologies, Vizag, India in 2019
- Scientific cruise Spent more than 500 days in the Arabian Sea and Bay of Bengal, through ~18 expeditions since 2011, onboard Research Vessels ORV Sagar Kanya, MGS Sagar, RV Sindhu Sankalp, MV Sagar Manjusha and actively participated in the planning and acquisition of geophysical surveys/data (Multibeam bathymetry, Sub bottom Profiler, Sea-surface Gravity and Magnetic) and served as Chief Scientist to several expeditions.

Selected Details of offshore experience:

	- Participated in several shallow water bathymetric surveys in the Eastern				
	Continental Margin of India (Bay of Bengal) onboard CRV Sagar Purvi, CRV				
	Sagar Paschimi and MV Sagar Manjusha for seafloor mapping, identification				
	and interpretation of geomorphological features in Bay of Bengal. (within the				
	time period of December 2013 – April 2015)				
	- Chief scientist onboard RV MGS Sagar for marine geophysical data				
	acquisition under EEZ mapping project in the Arabian Sea with main regard to				
	deep water swath bathymetry. (January - February 2016. July - August 2016)				
	- Chief scientist onboard ORV Sagar Kanva for seafloor mapping.				
	identification and interpretation of geomorphological features in the Andaman				
	Offshore region, Bay of Bengal. (April - May 2016, October – November				
	2017)				
	- Chief scientist onboard RV MGS Sagar for marine geophysical data				
	acquisition under EEZ mapping project in the Eastern Continental Margin of				
	India (Bay of Bengal) with main regard to deep water swath bathymetry.				
	(October- November 2016, April- May 2017, February - March 2019, July-				
	August 2019, November- December 2019	9)			
Professional Skills					
	• Caris HIPS and SIPS	• PDS 2000			
	Geosoft Oasis Montai	• Arc GIS			
	Generic Manning Tool (GMT)	• Linux/Windows systems			
	• Bython (Beginner)	Seismic Unix			
A abiarram anda	• I yulon (Begniner)				
Achievements	Number of the Deef Leader Clark Mar	i Contat I dia Contation			
	Nominated for Prof. Jagdeo Singh Mer	norial Grant at Indian Geophysical			
D	Union Annual Convention (2012)				
Personal Information					
Permanent Address:	Meppalatt House, Puduppanam Post, Va	takara, Kozhikode Dt., Kerala, India			
\mathbf{D}_{1}	0/3103				
Date of birth:	21/09/1989				
Nationality:					
Passport Number:	26046015				
Desearch Dublication					
Nesearch Fublications)				

Peer-reviewed Journals

C.M. Bijesh, V. Yatheesh, P. John Kurian, J. John Savio, Vasudev Mahale, Abhishek Shet, S. Gautham. Conjugate nature of the Alleppey-Trivandrum Terrace Complex with the Northern Madagascar Ridge in the early opening model of the Arabian Sea: Evaluation based on an integrated geophysical investigation. *Marine Geophysical Research*, 43, 14 (2022). https://doi.org/10.1007/s11001-022-09469-x

- **Bijesh C.M.,** Twinkle D., Susanth S., John Kurian P. Large scale submarine landslide in the Cochin offshore region, southwestern continental margin of India; a preliminary geophysical understanding. (*Under Review: Landslides, Springer, Ref.No: LASL-D-21-00393*).
- **Bijesh, C.M.,** Yatheesh, V., Twinkle, D., Tyagi, A., Kurian, P.J. Sagar Kanya Bathymetric High Complex: An extinct giant submarine volcanic caldera in the Eastern Arabian Sea? *Geomorphology*, 373, 107488 (2021). <u>https://doi.org/10.1016/j.geomorph.2020.107488</u>
- Susanth S., Kurian P.J., Bijesh C.M., Twinkle D., Abhishek Tyagi, Rajan S. Controls on the evolution of submarine canyons in steep continental slopes: geomorphological insights from Palar Basin, southeastern margin of India. *Geo-Marine Letters*, 41:14 (2021). https://doi.org/10.1007/s00367-021-00685-9
- Susanth S., John Kurian P., Twinkle D., **Bijesh C. M.**, Abhishek Tyagi, Potential submarine landslide zones off Chennai, Southeast Continental Margin of India. *Regional Studies in Marine Sciences*, 45:101832. <u>https://doi.org/10.1016/j.rsma.2021.101832</u>
- **Bijesh, C.M.** and Kurian, J. P. Morphology of the two unnamed seamounts in the Arabian Basin and their probable tectonic implications. *Current Science*, 118 (7), 1118-1123 (2020). doi:10.18520/cs/v118/i7/1118-1123
- **Bijesh C.M.,** John Kurian P., Yatheesh V., Abhishek Tyagi, Twinkle D. Morphotectonic characteristics, distribution and probable genesis of bathymetric highs off southwest coast of India. *Geomorphology*, 315, 33-44 (2018). <u>https://doi.org/10.1016/j.geomorph.2018.04.015</u>

Conferences/Seminars

- Twinkle D., **Bijesh C.M.**, Tyagi A., John Kurian, P. Crustal structure and rift architecture of East Antarctic margin through integrated geophysical data analysis. *National Conference on Polar Sciences NCPS 2017*, 16-17 May 2017.
- **Bijesh C.M.,** Twinkle D., Mahesh N., Susanth S., Tyagi A., John Kurian, P. Qualitative analysis of multibeam bathymetry data: case study from the continental margin off Gujarat, Arabian Sea. 5thNational Conference of Ocean Society of India OSICON-17, 28-30 August 2017.
- Susanth S., Bijesh C.M., Twinkle D., Tyagi A., John Kurian P. Morphology and Geohazards along Cauvery-Palar Basin, Southeastern Indian Margin. 5thNational Conference of Ocean Society of India OSICON-17, 28-30 August 2017.
- **Bijesh C.M.**, Yatheesh V., Twinkle D., Tyagi A, John Kurian, P. Identification, distribution and geophysical characteristics of bathymetric highs off southwest coast of India. *54thAnnual Convention of Indian Geophysical Union (IGU)*, CSIR-NGRI, Hyderabad, December 2017.
- C.M. Bijesh, D. Twinkle, N. Mahesh, P. John Kurian, V. Yatheesh. Geophysical Mapping of the Sagar Kanya Seamount, Arabian Sea. *SCOR-InterRidge workshop*, CSIR-NIO, Goa, 14-16 November 2018.
- John Kurian P., **Bijesh C. M.**, Abhishek Tyagi. Deep sea sinuous channel-levee system in the Upper Indus fan; novel understanding from the high resolution swath bathymetry data. *OSICON-2019*, 12-14 December 2019, CMLRE, Kochi.
- Susanth S., John Kurian P., Twinkle D., **Bijesh C.M.**, Abhishek Tyagi. First insights to the nature of submarine landslides and outer shelf cracking in North Palar Basin, Eastern

Continental Margin of India. International conference on frontiers in Marine Science, Challenges and Prospects, *MARICON-2019*, 16-20 December 2019, held at School of Marine Sciences, Cochin University of Science and Technology.

• C.M. Bijesh, V. Yatheesh, P. John Kurian, D. Twinkle, A. Tyagi. Morphotectonics of the southwestern continental margin of India and the adjacent deep offshore regions. *International Indian Ocean Science Conference (IIOSC-2022)*, Goa, 14-18 March 2022.