

ST. THOMAS COLLEGE, KOZHENCHERRY

DEPARTMENT OF PHYSICS

FACULTY BIOSKETCH



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- **Qualification** : M.Sc., Ph.D.

➤ **Brief Overview** :

Dr. Praveen S. S. completed M.Sc. in Physics from Kerala University in 2005 and Joined National Centre for Earth Science Studies (NCESS), Government of India and served as Research Fellow/Junior Research Fellow/Senior Research Fellow in the National Project of Tsunami Inundation Mapping and Modelling for the South West Coast of India till 2012. During this time he submitted his Ph.D. Thesis to Cochin University of Science and Technology (CUSAT) which came to fruition in 2013. Later he moved to Indian Institute of Technology (IIT-Delhi) where he served as Project Scientist in Centre for Atmospheric Sciences concerned with the Initial Withdrawal of Ocean. In 2012 December, he joined as Project Scientist in Ministry of Earth Sciences (MoES-Government of India) Chennai, which he continued till February 2014, prior to his joining in St. Thomas College, Kozhenchery. He also has a Post Graduate Diploma in Journalism and Mass Communication (PGDCJ) from University of Kerala.

➤ **Area of Specilization/Research Interests:** Numerical Modeling of Coastal Processes, Tsunami Modeling, Shoreline Analysis, Aerosols, Coastal Data Collection, Topography/Bathymetry/Shoreline Mapping.

➤ **Publications** :

- **S. S. Praveen** , N. P. Kurian & T. S. S. Hameed (2013): Tsunami Inundation Modelling for the Coast of Kerala, India, **Marine Geodesy**, 36:1, 86-97
- **S S Praveen**, K B Shafeer, N P Kurian and T S S Hameed Numerical Modelling of the Tsunami Propagation in the South East Arabian Sea (SEAS), Under Review with **Marine Geodesy**.
- **S. S. Praveen**, A. K. Reshmi, P.Dhanya, S. Arjun, Kalarani, N. P. Kurian, M. V. Ramana Murthy, T. S. Shahul Hameed and T. N. Prakash, (2011) Numerical Simulation of 26 December 2004 Tsunami on the Southwest coast and Lakshadweep islands of India. **Marine Geodesy** Special Issue on Tsunamis. Vol. 34:1, pp. 59-67.

- S. Arjun, Kalarani, P. Dhanya, **S.S. Praveen**, A. K. Reshmi, N. P. Kurian, M. V. Ramana Murthy, T. S. Shahul Hameed and T. N. Prakash, (2011) Numerical simulation of the Makran 1945 tsunami on the southwest coast and Lakshadweep islands of India. **Marine Geodesy** Special Issue on Tsunamis. Vol. 34:1, pp. 68-76
- N.P. Kurian and **S.S Praveen**, (2010) Tsunami wave propagation in the Arabian Sea and its implications on run-up/Inundation characteristics along the Kerala coast. **Indian Journal of Geo- Marine Sciences**. Vol.39(4), pp. 531-540
- Tad S Murty, N P Kurian, A Vittal Hegde, SubbaRao, Kiran G Shrilal, **Praveen S S**, Santhosh V H Numerical Modelling of Tsunami Run-up and Inundation along the central Kerala Coast, India, (Accepted for Publication-**Natural Hazards**)
- **S S Praveen, N P Kurian, T S S Hameed and K B Shafeer (2014)**, Propagation Characteristics of Tsunami in the South East Arabian Sea (SEAS) and Scenarios of Vulnerability Analysis along the South-West Coast of India. Paper Presented in International Tsunami Symposium held at Costa Rica (Presented via Video Conferencing)
- **S S Praveen, N P Kurian, T S S Hameed and K B Shafeer (2012)**, Numerical modelling studies on tsunami propagation in the South East Arabian Sea (SEAS) and vulnerability analysis along the south-west coast of India , Paper Presented in International Tsunami Society held at ISPRA , Italy (via Video Conferencing)
- **S.S Praveen, N.P Kurian and T.S.S Hameed (2011)**, Tsunami Inundation along the Kerala coast for different sources and Scenarios of Sea Level Rise, Proceedings of 23rd Kerala Science Congress, Thiruvananthapuram. Page 101.
- Habeeb Rahman and **S.S Praveen (2010)**, Numerical Modelling of **Oil Spill** along selected locations of Kerala coast, Paper communicated towards the 13th INCA International Congress, Dehradun.
- V.K Mithun, C.P Shanawaz, **S.S Praveen**, N.P Kurian, and T.S.S Hameed(2010), Validation of ALTM and Cartosat derived topographic data, Paper communicated towards the 13th INCA International Congress, Dehradun.
- **S.S Praveen, Kalarani, C. P. Shanavaz, S.Arjun, N.P Kurian, T.S.S Hameed and T.N.Prakash (2010)**, Numerical modelling studies on tsunami inundation along the Lakshadweep islands, Proceedings of the 9th International Conference on Hydroscience and Engineering(ICHE), Chennai, Page 100.

- N.P. Kurian and **S.S Praveen** Tsunami wave propagation in the Arabian sea and its effect on run-up/inundation characteristics along the south west coast of India (2010), Proceedings of National Conference on Coastal processes, Resources and Management, Thiruvananthapuram, Page 241.
- **S. S. Praveen**, P. Dhanya, Kalarani, S. Arjun, N. P. Kurian, T. S. S. Hameed, T. N. Prakash (2009), Numerical modelling of tsunami inundation for the southern Kerala coast, Proc. National Conference of Ocean Society of India on Recent Developments in Ocean Science, Engineering and Technology, OSICON'09, Page 50.
- **S.S Praveen**, Kalarani, P. Dhanya S. Arjun, N. P. Kurian, T. S. S. Hameed, (2009) Numerical modelling of tsunami inundation and run-up along the Kerala Coast for tsunami disaster mitigation, Proceedings of the National Workshop on Natural Hazards Disaster Mitigation and Management, 2009, Thiruvananthapuram, Page 47.
- **S.S Praveen**, S.Arjun, Kalarani, P.Dhanya, A.K Reshmi, N.P.Kurian and TSS Hameed (2007), Simulation of tsunami amplitudes along the Trivandrum coast for 1945 Makran and 2004 Sumatra Earthquake (2007) Proceedings of 18th Swadesi Science Congress, Thiruvananthapuram.
- **S.S.Praveen**, Kalarani, A.K.Reshmi, S.Arjun, C.P.Shanavaz, P.Dhanya, N.P.Kurian and T.S.Shahul Hameed (2007) Numerical Modelling of Tsunami Inundation along the Kerala coast, Proceedings of the 20th Kerala Science Congress, Thiruvananthapuram.

➤ **Career Profile:**

- Organizing Committee Member of Kerala Science Congress, Government of Kerala
- Co-Convenor of Children's Science Congress, Government of Kerala
- Faculty Team , Ministry of Earth Science-ICMAM PD, Government of India, Chennai
- Member, Reviewer Panel of International Journal- Marine Geodesy
- Programme Officer of National Service Scheme (NSS), St. Thomas College, Kozhenchery
- Member of International Tsunami Society
- Editorial Board Member of REYONO, a journal of St. Thomas College, Kozhenchery
- Visiting Faculty, Open course on Journalism and Mass Communication, of Department of Malayalam, St. Thomas College, Kozhenchery

- Member, College Website Committee