



G.Latha , Scientist G , NIOT is the Head of Ocean Acoustics and Modeling group. She completed her B.Sc. Mathematics in 1985 and she was awarded the Madras University God Medal for the same. Subsequently she received her Masters and Doctorate degrees in Mathematics from Indian Institute of Technology, Madras during the years 1987 and 1993 respectively. She continued her post doctoral work in IIT Madras availing the Post Doctoral Fellowship awarded by National Board for Higher Mathematics (NBHM), BARC, during 1993-94.

After joining NIOT in 1994, she carried out extensive research in the areas of numerical modeling of storm surges, tsunamis and wave modeling. The storm surge model developed by her was transferred to IMD for their use. After the devastating Tsunami in 2004, she had undertaken tsunami run up survey along the entire Tamil Nadu coast with an International team of experts and carried out Tsunami modeling for our region which was helpful for preparing inundation maps. She is in charge of the data reception center in NIOT in which real time data is received from tsunami systems deployed by NIOT.

Later, she had executed two key projects funded by Naval Research Board on ocean ambient noise measurements and characterization during the period 2004 – 2009. Subsequently she has been very actively working in the field of ocean acoustics , mainly long term ocean ambient noise measurements, analysis, characterization and applications in acoustical oceanography. The team under her leadership developed an autonomous system for passive acoustic measurements and successfully deployed in shallow water sites of Indian seas, which serve strategic purposes as well as acoustical oceanographic applications. She has been awarded a German patent for implementing real time ambient noise data. The passive acoustic system has been enhanced for polar and deep water applications. She was deputed to attend the UN meeting on “Anthropogenic Underwater Noise” in New York, USA during June 2018, as the expert from India.

Also, she undertook international visits and carried out hydrophone calibration with Germany, Russia and UK and fruitfully completed the Inter Laboratory Comparison test for hydrophone calibration in the Acoustic Test Facility(ATF) of NIOT . This paved way for the ATF headed by her to participate in the Key Comparison Test for hydrophone calibration,

organized by National Physical Laboratory UK in which 7 countries have participated and it fetched international recognition.

She has published more than sixty papers in high impact International and National journals. She has received the MS Narayanan Memorial lecture award by Acoustic society of India for her contribution in the ocean acoustics field. She also received “ Achiever Award” from Vaishnav College for Women, Madras University and Women Achiever Award from Vels University. She is a member of Committee on International Quiet Ocean Experiment (IQOE) under Scientific Committee on Oceanographic Research (SCOR) of USA.