

Dr.TUNE USHA

Scientist-F

National Centre for Coastal Research (NCCR)

Ministry of Earth Sciences, Government of India



EDUCATIONAL QUALIFICATIONS

M.B.A (General Management), 2011, Anna University.

Ph.D. (Geomatics under faculty of Civil Engineering) – 2008 – College of Engineering, Anna University

M.Sc (Environment and Ecology)- 2004 S.M. University

M.Tech (Remote Sensing) – 1993 – College of Engineering, Anna University.

B.E. (Instrumentation and Control Engg) – 1991 – Govt. college of Technology, Coimbatore, Tamil Nadu.

EMPLOYMENT RECORDS

1. **Scientist-F & Group Head (Coastal hazards) – National Centre for Coastal Research (2015 – till date)**
2. Scientist-E, ICMAM-Project Directorate, Department of Ocean Development, 2009-2015
3. Scientist-D , ICMAM-Project Directorate, Department of Ocean Development, 2003-2009
4. Scientist-C, ICMAM-Project Directorate, Department of Ocean Development, 1999-2003
5. Senior Research Associate – Institute for Ocean Management, Anna University(1996-1999)
6. Project Associate – Institute for Remote sensing, Anna University (1993-1996)

MAJOR PROGRAMS & ACHIEVEMENTS

- Tsunami inundation mapping and modeling using ALTM and Cartosat data for the entire Indian Coast.

- Development of biophysical vulnerability for coastal areas using Invest model
- Development of Coastal Flood Warning systems, a multi institutional project initiated by office of PSA, Govt of India.
- Development of a WebGIS based decision support system and mobile based app (Thoondil) with Dept of Fisheries, Govt. of Tamil Nadu
- Development of critical habitat information system for coastal critical habitats
- Development of ICMAM plan for Goa
- Development of GIS based mapping tools for field data collection, used for mapping the impacts of Kerala Floods and Gaja Cylcone.
- Development of a regional risk assessment methodology and decision support tools for climate change impact assessment and management in coastal areas.
- Development of Impact based analysis forecast system for tropical cyclones and multihazard warning system with IMD
- Capacity building and Training programmes of NCCR

AWARDS

1. Recipient of the Vel's University award "Achiever in Science – 2017"

PUBLICATIONS

- 12+ publications in national and international referred journals.
- 25+ publications in national and International proceedings.
- 20+ Technical reports
- 40+ Delivered talk in workshops and International Working Groups