

Dr. Anitha Gera

Scientist-E

National Centre for Coastal Research (NCCR)

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<https://scholar.google.com/citations?user=CuWG2fQAAAAJ&hl=en&oi=ao>

Research Area

- Numerical Ocean modelling and assimilation
- Coupled ocean atmosphere & coupled physio-bio-geo chemical modelling
- Tropical Monsoon Variability using coupled ocean atmosphere models,
- Intraseasonal Variability
- Upper ocean processes & tropical cyclones
- Ecosystem modelling

Educational Qualifications

- PhD: (Air Sea Interaction-Physics Faculty) 2009- Osmania Universtiy
- M.Sc: Physics- 1997- Nagarjuna University
- B.Sc (Physics)- 1995- Nagarjuna University

Professional Training

- NIIT 1993, Diploma in systems Management
- Summer School on the Dynamics of the Indian Ocean, June-July 2010, NIO

Employment

- Scientist-E, National Centre for Coastal Research (NCCR), Ministry of Earth Sciences, May 2019- till Date
- Scientist-E, National Centre for Medium Range Weather Forecasting (NCMRWF), Ministry of Earth Sciences, 2016- 2019
- Scientist-D, National Centre for Medium Range Weather Forecasting (NCMRWF), Ministry of Earth Sciences, 2011- 2016
- Proj Scientist-C, Indian National Centre for Ocean Information Services (INCOIS) , Ministry of Earth Sciences, 2008- 2011
- Proj Scientist-B, Indian National Centre for Ocean Information Services (INCOIS) , Ministry of Earth Sciences, 2005- 2008

- Research Fellow, Indian National Centre for Ocean Information Services (INCOIS) , Ministry of Earth Sciences, 2000- 2005
- Lecturer, TJPS PG college, Guntur, 1998-2000
- Lecturer, MRR Degree College, Kodad, 1997-1998

Major Programmes and Achievements

Monsoon Mission

- Configured & implemented Ocean Atmosphere, physio-biogeo-chemical numerical models UM-NEMO-PISCES for different applications
- Real-time Experimental Extended Range prediction & verification
- Monsoon and Upper Ocean studies, Modelling Sensitivity studies like Impact of biology on physics, Impact of River runoff on ocean thermodynamics
- Developed tools for Extended Range Forecast Products and their operational production, Tools for monitoring hurricane heat potential, real-time monitoring of Ocean observations & data base build for data assimilation
- Verification of Monsoon Extended Range Forecast issued Coupled models

Numerical Modelling of Weather & Climate

- Operational Marine Weather Forecasting for Southern Indian Ocean Expeditions of NCAOR and Indian Navy- INSV Tarini
- Assessment of Model Performance and verification of Marine Weather Forecasts for Southern Indian Ocean Expeditions

Ocean Research & Modelling

- Configured NEMO-PISCES for Ecosystem Applications
- Configured CUPOM for PFZ applications,
- Responsible for Argo trajectory data quality control, PFZ generation, Ocean state forecast
- Scientific Studies on Intraseasonal variability heat and fresh water in BoB, Quantification of Surface Buoyancy flux in Indian Ocean using Argo, ISV of MCP

Publications

- 16 peer reviewed publications, 4 under review and 37 conference presentations