

Deep Sankar Banerjee

Email: deepsankar.banerjee@cmcc.it

Research Experience

Junior Research Associate

Current Position since December, 2019

Ocean Modelling and Data Assimilation,
Centro Euro-Mediterraneo sui Cambiamenti Climatici (CMCC)
(Euro-Mediterranean Center on Climate Change)
Viale B. Pichat, 6/2, Bologna (BO), Italy

Scientist

November, 2014 - November, 2019

Data Assimilation and Ocean Modeling Group
Indian National Centre for Ocean Information Services
(INCOIS), Ministry of Earth Sciences, Govt. of India
Hyderabad, India

Teaching Experience

Assistant Professor in Dept. of Physics

January, 2014 - October, 2014

Department of Physics
Sir J.C.Bose School of Engineering,
Supreme Knowledge Foundation Group of Institution,
Mankundu, West Bengal, India

Guest Teacher in Dept. of Physics

August, 2013 - January, 2014

Syamsundar College (Govt. Sponsored)
Syamsundar, East Burdwan, West Bengal
India.

Academic Background

M.Sc in Physics

October, 2013

The University of Burdwan, West Bengal
India

B.Sc in Physics (Honours)

July, 2011

The University of Burdwan, West Bengal
India

Research Interest

Data Assimilation, Physical Oceanography, Fluid Dynamics, Numerical Ocean Model, Statistics, Kalman Filtering and Computer Programming and Automation.

Awards

- DST (Department of Science and Technology) - INSPIRE ("Innovation in Science Pursuit for Inspired Research") Scholar from the year, 2008 (B.Sc.) and availed the same till 2013 till the completion of M.Sc.
- Provisionally selected for INSPIRE PhD Fellowship.

Scientific Publication

- **Impact of dynamical representational errors on an Indian Ocean ensemble data assimilation system**, by Sivareddy, S., **Deep Sankar Banerjee**, Baduru, B., Biswamoy Paul, Arya Paul, Ibrahim Hotiet in Quarterly Journal of the Royal Meteorological Society (QJRMS), August, 2019.
<https://doi.org/10.1002/qj.3649>
- **'Ensemble based Regional ocean data assimilation system for the Indian Ocean: Implementation and Evaluation'** by Balaji B, Biswamoy Paul, **Deep Sankar Banerjee**, Sivareddy Sanikommu, Arya Paul, Journal of Ocean Modelling, November, 2019
<https://doi.org/10.1016/j.ocemod.2019.101470>
- **'A report on the implementation of LETKF-ROMS in the Indian Ocean'** by Balaji B., **Deep Sankar Banerjee**, Biswamoy Paul, S. Sivareddy, Abhisek Chatterjee and Francis P. A. and Arya Paul has been published in Ministry of Earth Sciences (MoES) technical report in 2018 (ReportNo.:ESSO-INCOIS-MDG-TR-03(2018)).
[https://incois.gov.in/documents/TechnicalReports/ESSO-INCOIS-MDG-TR-03%20\(2018\).pdf](https://incois.gov.in/documents/TechnicalReports/ESSO-INCOIS-MDG-TR-03%20(2018).pdf)

Seminars and advanced courses attended

- RIKEN International School on Data Assimilation (RISDA - 2018), RIKEN Institute, Kobe, Japan **January 22 - 26, 2018**
- ‘A Short Course on Dynamic Data Assimilation: Theory and Applications’
Indian Institute of Tropical Meteorology
Pune, India **June 26 - July 7, 2017**
- Training course on 'Indian Ocean Dynamics: From Large-scale Circulation to Small-scale Eddies and Fronts'
by Prof. J. P. McCreary,
(Prof. at University of Hawaii, USA)
INCOIS, Hyderabad, India **November 16 - 27, 2015**
- Training course on 'An Introduction to the Blue Ocean'
by Prof. Raghu Murtugudde
(Prof. at University of Maryland, USA), at INCOIS, Hyderabad, India **June 1 - 12, 2015**
- ‘Third National Seminar on Recent Trends in Condensed Matter Physics including Laser Application’
The University of Burdwan, East Burdwan, India **March 5 - 7, 2013**
- ‘10th Micro Seminar on Non-Linear Phenomena’ **July 27, 2012**
- ‘First National Seminar on Recent Trends in condensed Matter Physics including Laser Application’ (FNSCMPLA 2012)
The University of Burdwan, East Burdwan, India **March 6 - 7, 2012**
- ‘14th District wise Space Science Symposium’
Burdwan, West Bengal, India **May 17, 2012**