

Sanjeev Dwivedi



Dr. Sanjeev Dwivedi

Post - Doctoral Fellow,
School of Earth, Ocean and Climate Sciences,
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RESEARCH EXPERIENCE

June 2019 – Present

- Post Doctoral Fellow
School of Earth, Ocean and Climate Sciences, Indian Institute of Technology Bhubaneswar, India

February 2017 – January 2019

- National Post Doctoral Fellow
National Atmospheric Research Laboratory (NARL), Department of Space, Govt. of India, Gadanki, India
Working on Department of Space and Technology – Science and Engineering Research Board (SERB) sponsored project on “Investigation on the Formation and Maintenance of thermal inversion over the Arabian Sea and relationship with Indian Summer Monsoon”.

May 2012 – January 2017

- Research Fellow
SRM University, Kattankulathur, Chennai
Worked in ISRO’s INSAT-3D satellite project entitled “Low level Monsoon Inversion over Western Arabian Sea”.

TEACHING EXPERIENCE

July 2019 - Present

- Teaching to M.Sc.
School of Earth, Ocean and Climate Sciences, Indian Institute of Technology Bhubaneswar, India
Micrometeorology, and Modelling of Dynamical Processes of Ocean and Atmosphere Courses to M.Sc. students

April 2010 - September 2011

- Lecturer in Physics
Ramgarhia Institute of Engineering and Technology, Phagwara, Punjab
Taught Physics to B. Tech. Students

June 2008 - March 2010

- Lecturer in physics
Ramgarhia College, Phagwara, Punjab
Taught Physics to B.Sc. Students

AWARDS AND HONOURS

2008 – Present

- **Best paper award** at International Tropical Meteorology Symposium (INTROMET-2017), Ahmedabad, Gujarat.
- Awarded Science and Engineering Research Board - **National Post Doctoral Fellowship** from Department of Science and Technology.
- Secured **Bronze Medal** in PG Diploma from SATMET - 9 of United Nation – Centre for Space Science and Technology Education in Asia and the Pacific (UN-CSSTEAP).
- Senior Research Fellow in ISRO INSAT – 3D Project on low level Monsoon Inversion.
- Secured **Gold Medal** in M.Sc. (Astronomy and Space Physics) from Punjabi University, Patiala.
- Awarded **scholarship** for 9 years from 10th class up to M.Sc. from Thapar group.

EDUCATION

Dec 2016 Awarded Ph. D. in Physics
Thesis title, “Investigations
on low level Indian summer
monsoon inversion”
Course work
percentage 93.3 (CGPA 9.33)
SRM University, Chennai.

Oct 2017 Awarded M. Tech. (Satellite
Meteorology and Global
Climate) affiliated to UN –
CSSTEAP at Space
Applications Centre (SAC),
ISRO, Ahmedabad, India
percentage 91.3 (CGPA 9.13)
Andhra University,
Visakhapatnam, Andhra
Pradesh

CURRENT RESEARCH INTEREST

- Monsoon inversion and pollutant levels relation using satellite data along with FLEXPART and HYSPLIT back trajectory model.
- WRF ARW - v6 Model simulation of Monsoon inversion using dynamical downscaling approach.
- WRF ARW – Data Assimilation of conventional and satellite radiance assimilation.
- WRF Chem Model simulation for the dust events over India.
- Climate change and long term variability of monsoon inversion

COMPUTER SKILLS AND EXPERIENCE

Application Softwares : MATLAB, GrADS, FERRAT, Latex,
Origin, ERDAS, Envi, BRAT, IGIS.

Operating System : Windows and Linux.

Programming Languages : FORTRAN, Python, C, Oracle 9i, D-Base.

Weather Prediction : WRF - ARW, WRF – Chem, WRF - DA

Experience : Experience in installing, compiling, testing, and customizing atmospheric models on new computer systems and the ability to work with large observation data sets analysis and different format HDF, NETCDF, GRIB etc.

PAPERS PUBLISHED (Main papers)

1. Yesubabu V., Dasari H. P., **Dwivedi S.**, Venkat Ratnam, M., Langodan S., & Hoteit I., “Variability of Monsoon Low Level Jet and associated rainfall over India”, published in **International Journal of Climatology**, doi:10.1002/joc.6256, 1-23, (IF 3.60).
2. **Dwivedi, S.**, Narayanan, M. S., Venkat Ratnam, M., & Narayana Rao, D., “Characteristics of Monsoon Inversion over Arabian Sea observed by satellite sounder and reanalysis data set”, published in **Atmospheric Chemistry Physics**, doi: 10.5194/acp-16-4497-4509, Vol. 15. No.23, 2016 (IF 5.67).

PLACE: Bhubaneswar, India
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(Sanjeev Dwivedi)