



Vishnu Sasidharan Nair

Postdoctoral Scholar

Meteo-France / IRD-France

✉ Meteo-France, Toulouse, France

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🌐 [Vishnu's Website](#)

Skills

Critical thinking and Problem solving

Documentation and Publications

Programs (Python, FORTRAN)

Shell script

Plotting (Ferret, NCL, Grads, CDO, NCO)

High Performance Computation

Model Execution (WRF-ARW, ALADIN)

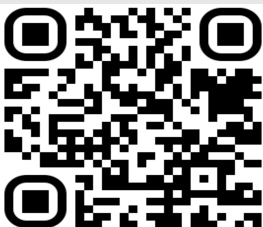
Model Analysis (CORDEX RegCM, CFS)

Languages

English

Research Publications

[Google Scholar](#) / See (or click) the below QR code for detailed list



Profile

A climate researcher with a solid sense of conceptualizing new and original research ideas, analyzing data and diagnosing/experimenting with models. Ten-year research on tropical meteorology focuses mainly on the low-pressure system's (LPS) variations and dynamics and their link to the daily extremes to seasonal total rainfall. Published global low-pressure system *data ensembles* and a part of a Climate Assessment *Report*.

Experience

- 01/22 - Postdoctoral Scholar Toulouse, France
Meteo-France / IRD-France,
 - Reliable climate projection of southwest pacific under *CLIPSSA*.
- 01/19 - 12/21 Postdoctoral Scholar Berkeley, USA
University of California, Berkeley
 - Investigated the thermodynamics of the rise in the LPS rainfall.
 - Operational models* : Tracking and evaluation of LPS.
 - CMIP6: Variations in LPS and its rainfall in a warming climate.
 - Published *global LPS data ensembles* using *TempestExtremes*.
- 01/18 - 01/19 Project Scientist-C Pune, India
CCCR, Indian Institute of Tropical Meteorology (IITM)
 - Assessed regional tropical cyclone activity in the *CORDEX* models.
 - Part of India's first *Climate Assessment Report*.
- 07/17 - 01/18 Research Associate Bangalore, India
DCCC, Indian Institute of Science (IISc)
 - Analysed reason for the severity of Indian monsoon droughts.
- 08/11 - 08/16 Research Fellow Hyderabad, India
Indian National Centre for Ocean Information Services (INCOIS)
 - Studied the reason of LPS reduction using observations and models.
 - Explored the link of Pacific Decadal Oscillation (PDO) to LPS.
 - Hunted tropical convergence zone and LPS track using FORTRAN
 - Examined the improper Indian monsoon variability in the *CFS* model.
 - Collaboration: (i) Rapid intensification of the tropical cyclones (ii) mid-latitude jet breaks induced flash floods of Indian west coast.

Education

- 08/13 - 05/17 Ph.D. in Meteorology and Oceanography Visakhapatnam, India
Andhra University
 - Thesis title: *Temporal variation in the number of Monsoon Depressions and its Link to the Inter Tropical Convergence Zone*
- 07/09 - 05/11 Masters in Meteorology Kochi, India
Cochin University of Science and Technology (CUSAT)
 - CGPA: 7.63

Miscellaneous Experience

- 2017 Scientific member in a month open Ocean Cruise Bay of Bengal
Operated Oceanographic & Meteorological instruments

Awards & Service

- 2011 Junior Research Fellowship with the lectureship
Received from University Grant Commission, India.
- 2017 - 2022 Journal referee
"Geophys. Res. Lett.", "J. Geophys. Res: Atmos", "Inter. J. Climatol", etc

Reference

Available on Request