Dr Sandhya K Nair

Scientist/Engineer –SE

Contact

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Languages

Malayalam
English
Hindi

Hobbies

- Reading
- Singing
- Dancing
- Sports
- Travel

Memebership in professional bodies

- ✓ *India meteorological Society (Life member)*
- ✓ *Indian science congress association (Life member)*
- ✓ *ISRO Space Scientist Association*
- ✓ *European Geophysical Union (EGU) (Regular membership 2020)*
- ✓ *Asia flux (Member)*

Summary

Twenty years of research experience in the field of Atmospheric science

Research area

- ➢ Atmospheric aerosols
- ➢ Atmospheric boundary layer
- ➢ Clouds
- ➢ Radiation
- ➢ Ionosphere thermosphere system
- ➢ Planetary energy budget
- ➢ Satellite remote sensing

Skill Highlights

- Satellite data analysis
- Team member - National Project
- Experiment planning and execution
- In charge-Eddy covariance system with micro-meteorological sensors
- Proposed scientific experiment for planetary mission
- Reviewer –journal and proposal
- ➢ Payload proposer/developer

Experience

Ph D : 2000-2006 Space Physics Laboratory, VSSC
Post-Doc: 2006-2008 Space Physics Laboratory, VSSC

Scientist/Engineer-SD- 2008-2014, Space Physics Laboratory, VSSC
Scientist/Engineer-SE- 2014-present, Space Physics Laboratory, VSSC

- Seven years regional AOD over Indian region and its variability using NOAA AVHRR data
- Cloud screening: potential of IRS-P4 OCM data
- Delineation of different layers of Atmospheric boundary layer using Pisharoty sonde
- Diurnal variability of monsoonal low level jet
- Pollution dispersion over a coastal location
- Eddy-covariance system with micro-meteorological sensor
- Surface energy budget over coastal location
- Mesospheric –thermosphere heating/cooling of various specious and energetic
- SO_2 cloud in Venusian atmosphere