

Dr. Kishore Kumar Grandhi



UGC-Assistant Professor

M.Sc. (Physics)	: Andhra University, India, 2002
M.Phil. (Atmospheric Sciences)	: S.V. University, India, 2006
Ph.D. (Atmospheric Sciences)	: S.V. University, India, 2009
Postdoctoral Fellow	: UWO, Canada 2009-10
Postdoctoral Fellow	: IAP, Germany 2010-2011
Alexander von Humboldt Fellow	: IAP, Germany 2012-2014
Researcher-IUGONET	: Kyoto University, Japan 2014-2015
Postdoctoral Fellow	: BCSS, UoB, Norway 2015-2017
UGC-Assistant Professor	: S. P. Pune University, 2017 -2023
UGC-Assistant Professor	: University of Hyderabad, 2023-present

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Field of Specialization:

Middle Atmospheric Structure and Dynamics, Long-term Trends, Turbulence, Renewable Energy

Research Interests:

The middle Atmosphere is a natural laboratory to study how the atmospheric waves, originating in the lower atmosphere, propagate and dissipate. Vertical coupling and lateral coupling of the middle atmosphere with other layers, how does the space weather impact the middle atmosphere and lower atmosphere? Impact of meteorological factors on solar energy.

Awards/Recognition (include national/international renowned awards/recognition)

2023: Selected for ISEE International Joint Research Program

2012: Research Fellowship from the Alexander von Humboldt Foundation, Germany

2008: Senior Research Fellowship from Council of Scientific and Industrial Research (CSIR), India

Editorial Services

Reviewer for peer-reviewed National and International Journals (Current Science, Journal of Geophysical Research, Journal of Atmospheric and Solar-Terrestrial Physics, Advances in Space Research, Annales Geophysicae, Theoretical and Applied Climatology)

Selected Publications (maximum 5)

- **Kishore Kumar, G.**, K. Kishore Kumar, W. Singer, C. Zülicke, S. Gurubaran, G. Baumgarten, G. Ramkumar, S. Sathishkumar, and M. Rapp (2014), Mesosphere and lower thermosphere zonal wind variations over low latitudes: Relation to local stratospheric zonal winds and global circulation anomalies, *J. Geophys. Res. Atmos.*, 119, 5913–5927, doi:10.1002/2014JD021610. [IF: 5.217]
- Venkat Ratnam, M., **G. Kishore Kumar**, N. Venkateswara Rao, B. V. Krishna Murthy, J. Lastovicka, and L. Qian (2013), Evidence of long-term change in zonal wind in the tropical lower mesosphere: Observations and model simulations, *Geophys. Res. Lett.*, 40, 397–401, doi:10.1002/grl.50158. [IF: 5.576]
- Koushik, N., Kumar, K.K., Ramkumar, G., K. V. Subrahmanyam, **G. Kishore Kumar**, W. K. Hocking, Maosheng He & Ralph Latteck Planetary waves in the mesosphere lower thermosphere during stratospheric sudden warming: observations using a network of meteor radars from high to equatorial latitudes. *Clim Dyn* 54, 4059–4074 (2020). <https://doi.org/10.1007/s00382-020-05214-5> [IF: 4.901]
- **Kishore Kumar, G.**, H. Nesse Tyssøy, Bifford P. Williams, A preliminary comparison of Na lidar and meteor radar zonal winds during geomagnetic quiet and disturbed conditions, *Journal of Atmospheric and Solar-Terrestrial Physics*, 168, 2018, 70–79, <https://doi.org/10.1016/j.jastp.2018.01.010>. [IF: 2.119]
- Narasimha Murthy, K.V., **Kishore Kumar, G.** Distribution and Prediction of Monsoon Rainfall in Homogeneous Regions of India: A Stochastic Approach. *Pure Appl. Geophys.* 179, 2577–2590 (2022). <https://doi.org/10.1007/s00024-022-03042-8>. [IF: 2.641]