

CURRICULUM VITAE

Aswathy. R.P

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Areas of specific research interest	<ul style="list-style-type: none">• The night time plasma irregularities at the magnetic equatorial ionosphere• The coupling processes in the ionosphere-thermosphere system• Dynamics of the equatorial and low-latitude ionosphere
Designation	Research Associate (28/2/2019 onwards)
Academic qualification	Ph.D (2019) Thesis title: Investigations on the dynamics of the equatorial and low-latitude ionosphere-thermosphere system and its association with equatorial spread F
	MSc. (2011 – 2013)
	BSc. (2008 – 2011)
	Plus two (2008)
	Secondary school (2006)
Fellowship	ISRO Junior Research Fellowship (2014) CSIR UGC-NET (2012) GATE (2014)
Awards	Best paper award, <ul style="list-style-type: none">• 'Hind-casting of ESF events using seasonal empirical models', National Space Science Symposium-2019, 29 - 31 January 2019, Pune, Maharashtra

List of publications in peer-reviewed journals:

- I. **Aswathy, R.P.**, Manju, G. (2017). Gravity wave control on ESF day-to-day variability: an empirical approach. *Journal of Geophysical Research: Space Physics*. 122, 6791-6798, doi: 10.1002/2017JA023983.

- II. **Aswathy R. P.** and G. Manju. (2018). Hind-casting of Equatorial Spread F (ESF) using seasonal empirical models, *Journal of Geophysical Research: Space Physics*, 123, 1515–1524, doi.org/10.1002/2017JA025036.
- III. **Aswathy, R. P.**, Manju, G., &Sunda, S. (2018). The response time of equatorial ionization anomaly crest: A unique precursor to the time of equatorial spread F initiation. *Journal of Geophysical Research: Space Physics*, 123 , doi.org/10.1029/2018JA025469
- IV. Manju G., **Aswathy R.P.** (2017). Climatology of GW-TIDs in the magnetic equatorial upper thermosphere over India', *Journal of Atmospheric and Solar-Terrestrial Physics*, 164, 142–148, doi.org/10.1016/j.jastp.2017.08.015.
- V. Manju G and **Aswathy R P.** (2018), 'First time estimation of thermospheric neutral densities from threshold curves of ESF triggering: A novel evidence for ionosphere-thermosphere coupling', *Journal of Geophysical Research: Space Physics*, 123, doi:10.1029/2018JA025967
- VI. G. Manju, M.K. MadhavHaridas, **Aswathy R.P.** (2016).Role of gravity wave seed perturbations in ESF day-to-day variability: A quantitative approach. *Advances in Space Research*, 57, 1021–1028, doi.org/10.1016/j.asr.2015.12.019.
- VII. Manju, G., Tarun K. Pant, Mridula N., **Aswathy R. P.**, P. Sreelatha, Rosmy John, Satheesh Thampi R., Aneesh . N. and Abhishek J. K. , JASTP, 2019, In-situ observations of rocket burn induced modulations of the top side ionosphere using the IDEA payload on-board the unique orbiting experimental platform (PS4) of the Indian Polar orbiting Satellite Launch Vehicle mission, doi: 10.1016/j.jastp.2020.105203