

Aman Gupta

Physical Science Research Scientist

Earth System Science

 Curriculum Vitae available Online

Bio

ACADEMIC APPOINTMENTS

- Physical Science Research Scientist, Earth System Science

LINKS

- <https://amangupta2.github.io/>: <https://amangupta2.github.io/>

Publications

PUBLICATIONS

- **Offline Performance of a Nonlocal Deep Learning Parameterization for Climate Model Representation of Atmospheric Gravity Waves** *JOURNAL OF ADVANCES IN MODELING EARTH SYSTEMS*
Gupta, A., Sheshadri, A., Roy, S., Anantharaj, V.
2025; 17 (10)
- **Gravity Wave Momentum Fluxes from 1 km Global ECMWF Integrated Forecast System.** *Scientific data*
Gupta, A., Sheshadri, A., Anantharaj, V.
2024; 11 (1): 903
- **Insights on Lateral Gravity Wave Propagation in the Extratropical Stratosphere From 44 Years of ERA5 Data** *GEOPHYSICAL RESEARCH LETTERS*
Gupta, A., Sheshadri, A., Alexander, M., Birner, T.
2024; 51 (14)
- **Updates on Model Hierarchies for Understanding and Simulating the Climate System: A Focus on Data-Informed Methods and Climate Change Impacts** *JOURNAL OF ADVANCES IN MODELING EARTH SYSTEMS*
Mansfield, L. A., Gupta, A., Burnett, A. C., Green, B., Wilka, C., Sheshadri, A.
2023; 15 (10)
- **Estimating the Meridional Extent of Adiabatic Mixing in the Stratosphere Using Age-Of-Air** *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*
Gupta, A., Linz, M., Curbelo, J., Pauluis, O., Gerber, E. P., Kinnison, D. E.
2023; 128 (4)