

Publications

- Alexander, P., A. de la Torre, N. Kaifler, B. Kaifler, J. Salvador, P. Llamedo, R. Hierro, and J. L. Hormaechea, 2020: Temperature Profiles From Two Close Lidars and a Satellite to Infer the Structure of a Dominant Gravity Wave. *Earth and Space Science*, **7** (7), e2020EA001 074, doi:https://doi.org/10.1029/2020EA001074.
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- Banyard, T. P., C. J. Wright, N. P. Hindley, G. Halloran, I. Krisch, B. Kaifler, and L. Hoffmann, 2021: Atmospheric Gravity Waves in Aeolus Wind Lidar Observations. *Geophysical Research Letters*, **48** (10), e2021GL092 756, doi:https://doi.org/10.1029/2021GL092756.
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- Conte, J. F., J. L. Chau, A. Liu, Z. Qiao, D. C. Fritts, J. L. Hormaechea, J. O. Salvador, and M. A. Milla, 2022: Comparison of mlt momentum fluxes over the andes at four different latitudinal sectors using multistatic radar configurations. *Journal of Geophysical Research: Atmospheres*, **127** (4), e2021JD035 982, doi:https://doi.org/10.1029/2021JD035982.
- Conte, J. F., J. L. Chau, J. M. Urco, R. Latteck, J. Vierinen, and J. O. Salvador, 2021: First Studies of Mesosphere and Lower Thermosphere Dynamics Using a Multistatic Specular Meteor Radar Network Over Southern Patagonia. *Earth and Space Science*, **8** (2), e2020EA001 356, doi:https://doi.org/10.1029/2020EA001356.
- de la Torre, A., P. Alexander, T. Marcos, R. Hierro, P. Llamedo, J. L. Hormaechea, P. Preusse, M. Geldenhuys, L. Krasauskas, A. Giez, B. Kaifler, N. Kaifler, and M. Rapp, 2023: A Spectral Rotary Analysis of Gravity Waves: An Application During One of the SOUTHTRAC Flights. *Journal of Geophysical Research: Atmospheres*, **128** (1), e2022JD037 139, doi:https://doi.org/10.1029/2022JD037139.
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PhD thesis

Markus Geldenhuys, 2022: Improvements to gravity wave physics from an observational perspective. Bergische Universität Wuppertal

Stefanie Knobloch, 2023: Utilizing airborne lidar observations for the exploration of gravity waves in the middle atmosphere. Ludwig-Maximilians-Universität München

Robert Reichert, 2023: Characterization of Gravity Waves in the Lee of the Southern Andes utilizing an Autonomous Rayleigh Lidar System. Ludwig-Maximilians-Universität München

Master's thesis

Michael Binder, 2023: Non-orographic gravity waves above propagating tropopause depressions: idealized numerical simulations. Universität Innsbruck, Supervisor: A. Dörnbrack.

Ramona Eckert, 2021: Calibration of multi-hole probes for in-situ wind measurements with a glider in mountain waves. Ludwig-Maximilians-Universität München; Supervisor: N. Wildmann.

Anasimele, G, 2022: Análisis de vientos y mareas en la mesosfera y baja termosfera sobre la región patagónica argentina, Universidad Nacional de La Plata; Supervisor: J. F. Conte.

Suclupe, J, 2022: Climatología de las mareas y onda planetaria Q2D en la región de la mesosfera y baja termosfera sobre la costa central del Perú, Pontifica Universidad Católica del Perú; Supervisor: J. L. Chau.