

24th January 2019, 15:00 s.t.

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Gravity Wave Propagation in the Wintertime Atmosphere

Atmospheric Physics is a sub-discipline of applied physics. My research addresses a phenomenon that is usually seen as meteorological noise: gravity waves in the atmosphere. Actually, gravity waves are important for the transport of momentum and play a key role in the coupling of the atmosphere by being capable of rearranging global circulation patterns.

For my PhD I develop a method to extract gravity wave parameters locally from gridded model data. With this information detailed wave propagation analyses of the wintertime atmosphere are performed.

Local test cases show gravity waves excited by different sources (orography and jet stream) and the shift of the gravity wave spectrum from the lower to the upper atmosphere is analysed.

Talk: English
Slides: English

Location: Institute of Physics, Albert-Einstein-Str. 24, HS1

