

Conveners : Ulrich Achatz, Alvaro de la Camara, Riwal Plougonven, Chantal Staquet, Claudia Stephan

Program of the chat-session, Friday 8 May, 14:00-16:00

New observation methods of IGW in the atmosphere 13'

S. Srivastava

Gravity wave identification using GPS total electron content in South East Asia

I. Strelnikova

Lidar Observations of Seasonal Variability of Gravity-Waves

M. Rapp

First airborne gravity wave observations at the world's hotspot in Southern Argentina

Fede Conte

First studies of mesospheric momentum flux and wind fields using the SIMONe system over Patagonia

Observation and analysis of IGW (mountain waves) 10'

B. Kaifler

Mountain waves penetrating into the mesosphere observed by airborne lidar

C. Kruse (solicited)

Middle-Atmosphere Mountain Waves and Drag Near the Drake Passage: Observations, mini-MIP, and an OSSE

L. Krasauskas

Time dependent 3D tomography of a mountain wave over the Andes with GLORIA IR limb imager

Analysis of IGW from observations I 10'

H. Okui

Characteristics and sources of gravity waves in the summer stratosphere based on long-term and high-resolution radiosonde observations

M. Geldenhuys

The Quest for the Gravity Wave Source

N. Hindley

Exploring long-term satellite observations of global 3-D gravity wave characteristics in the stratosphere

Analysis of IGW from observations II 10'

C. Strube

Removing spurious inertial instability signals from gravity wave temperature perturbations using spectral filtering methods

M. Ern

Gravity wave intermittency derived from HIRDLS and SABER satellite limb soundings

K. Sato

The climatology of the Brewer-Dobson circulation and the contribution of gravity waves

Numerical modelling of IGW in the atmosphere I 10'

Y.-H. Kim

Intermittency of gravity waves modelled by a transient gravity wave parametrization coupled with convective sources

T. Mixa

Numerical modeling of mesospheric mountain wave propagation observed in Southern Argentina during the SOUTHTRAC campaign

A. Dörnbrack

Gravity wave activity during the southern hemispheric sudden stratospheric warming 2019

Numerical modelling of IGW in the atmosphere II 10'

F. Schmid

Generation of inertia-gravity waves in idealized baroclinic-wave life cycles: Explicit vs. semi-implicit time stepping in a finite-volume solver for the pseudo-incompressible equations

Z. Procházková

Sensitivity of resolved gravity wave momentum fluxes on different background separation methods in a high resolution simulation

A. Schneidereit

Sensitivity of middle atmosphere GW forcing to vertical model resolution

Parameterization of IGW in the atmosphere 10'

G. Bölöni

Towards the implementation of a transient gravity wave drag parameterization in atmospheric models

B. Ribstein

Can we improve gravity wave parameterizations by imposing sources at all altitudes in the atmosphere?

M. Mai

A new parameterization of gravity waves for atmospheric circulation models based on the radiative transfer equation

IGW in the ocean 13'

X. Zhang

Observed energy cascade from internal solitary waves to turbulence via near N-waves in the ocean

Y. Dössmann

Internal tides / lee waves coupling : dynamics and impact on the ocean energy budget

T. Eriksen

Diapycnal diffusivity induced by the breaking of lee waves

K. Polzin

The Arrested Ekman Layer Escapes! Ventilation of the BBL by Internal Swash

Theoretical/numerical study of IGW 10'

G. S. Voelker

A Parametrization for Triad Interactions of Internal Gravity Waves in Varying Background Flows for WKBJ Ray-Tracing Methods

F. D. Kelemen

Mountain wave parametrization in a transient gravity wave model

M. AmirAmjadi

Further developments on estimating inertia-gravity-wave properties: Combining the Riesz transform with machine learning methods

Laboratory experiments of IGW 13'

G. Davis (solicited)

Experimental internal gravity wave turbulence

K. Grayson

The long-time spatial and temporal development of Triadic Resonance Instability

P. Léard

A multi-wave model for the Quasi-Biennial Oscillation: Plumb's model extended

C. Rodda

Transition from geostrophic flows to inertia-gravity waves in the spectrum of a differentially heated rotating annulus experiment