

Workshop MS-GWaves 19-21 March in Kassel - Agenda

Monday 19 March

Session 1 Chair: Lena Schoon

9:00	-	9:15	Introduction
9:15	-	10:00	<i>Carsten Eden (invited)</i> : Numerical evaluations of wave-wave interactions
10:00	-	10:30	<i>Erich Becker (GWING)</i> : The role of secondary GWs in the general circulation of the MLT
10:30	-	11:00	Break

Session 2 GW-TP Chair: Mark Schlutow

11:00	-	11:30	<i>Christopher Pütz (GW-TP)</i> : Evolution of wave packets in non-uniform background
11:30	-	12:00	<i>Andreas Dörnbrack (GW-TP)</i> : Vertical propagation of non-hydrostatic gravity waves into the mesosphere
12:00	-	12:30	<i>Peter Spichtinger (GW-TP)</i> : Propagation of gravity waves through an idealized tropopause inversion layer
12:30	-	13:30	Lunch

Session 3 GWING/Invited Chair: Steffen Hien

13:30	-	14:15	<i>Hella Garny (invited)</i> : Changes in the stratospheric circulation in response to climate change and its sensitivity to current gravity wave parametrizations
14:15	-	14:45	<i>Hauke Schmidt (GWING)</i> : Current Status at MPI-M
14:45	-	15:15	<i>Sebastian Borchert (GWING)</i> : On a variable launch spectrum for the non-orographic GW parameterization in UA-ICON
15:15	-	15:45	Break

Session 4 3DMSD Chair: Costanza Rodda

15:45	-	16:15	<i>Mark Schlutow (3DMSD)</i> : Stability of large-amplitude traveling wave packets
16:15	-	16:45	<i>Gergely Bölöni (3DMSD)</i> : Towards the implementation of a transient gravity wave drag parametrization in ICON
16:45	-	17:15	<i>Junhong Wei (3DMSD)</i> : Efficient modelling of the gravity-wave interaction with unbalanced resolved flows: Pseudo-momentum-flux convergence vs direct approach
17:15	-	17:30	Break

Session 5 SV Chair: Jens Söder

17:30	-	18:00	<i>Isabell Krisch (SV)</i> : GLORIA observations of GWs during PGS and WISE
18:00	-	18:30	<i>Cornelia Strube (SV)</i> : Horizontal propagation into the southern polar night jet, a case study for DEEPWAVE
19:00			Dinner
20:30	-	22:00	Research Progress Discussions

Time frame:

30 min presentation: 20 min presentation +10 min discussion

45 min presentation: 35 min presentation + 10 min discussion

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Tuesday 20 March

Session 6 Invited

Chair: Sebastian Borchert

8:30 - 9:15 *Mike Taylor (invited)*: Investigating Gravity Waves Using an Advanced Mesospheric Temperature Mapper

9:15 - 10:00 *Alexander Medvedev (invited)*: Interactions of gravity waves with tides and the geomagnetic field in the upper atmosphere

10:00 - 10:30 **Break**

Session 7 PACOG

Chair: Isabell Krisch

10:30 - 11:00 *Irina Strelnikova (PACOG)*: Statistical study of Hodograph analysis of ALOMAR Lidar observations

11:00 - 11:20 *Gunter Stober (PACOG)*: Diagnosing the short term variability of tides

11:20 - 11:50 *Robert Reichert (PACOG)*: Retrieval of intrinsic gravity wave parameters from lidar and airglow temperature data and radar wind data

11:50 - 12:45 **Lunch**

12:45 - 15:45 **Outdoor**

Session 8 SI/Invited

Chair: Christopher Pütz

15:45 - 16:30 *Sharon Vadas (invited)*: Primary and secondary gravity waves in the lower and middle atmosphere

16:30 - 17:00 *Christoph Zülicke (SI)*: Jet-generated gravity waves: Parameterization formula and case studies

17:00 - 17:30 *Steffen Hien (SI)*: Spontaneous inertia-gravity wave generation in the differentially heated rotating annulus experiment

17:30 - 17:45 **Break**

Session 9 SI

Chair: Cornelia Strube

17:45 - 18:15 *Costanza Rodda (SI)*: Emission of inertia-gravity waves in the differentially heated rotating annulus laboratory experiment

18:15 - 18:30 *Georg Sebastian Völker*: Generation of Near-Inertial Internal Gravity Waves by Wind in Simplified Ocean Models

18:30 - 18:45 *Elena Gagarina*: Variational approaches to water wave simulations.

19:15 **Dinner**

20:30 - 22:00 Research Progress Discussions

Time frame:

30 min presentation: 20 min presentation +10 min discussion

45 min presentation: 35 min presentation + 10 min discussion

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Wednesday 21 March

General Discussions

08:00 - 10:00 Research Area Meetings (Groups: P and D&I); *Chairs: Peter Preusse (D&I), Uwe Harlander (P)*

10:00 - 10:30 **Break**

10:30 - 12:00 Discussion

12:00 - 13:00 **Lunch**

End of scientific part

13:00 - 15:00 *In parallel:*

PI meeting

Career Discussion with Sharon Vadas, Hella Garny and the ECS

Time frame:

30 min presentation: 20 min presentation +10 min discussion

45 min presentation: 35 min presentation + 10 min discussion