

Workshop MS-GWaves Kühlungsborn 25-28 March 2019 – Agenda

Meetings before Scientific Workshop

Monday 25 March

- 09:00 - 17:00 ECS Career Training with Julie Stearns
18:00 - 20:00 Hotel Aquamarin: PI-Meeting / Career discussion
20:00 **Dinner at Hotel Aquamarin**

Scientific Workshop

Tuesday 26 March

Session 1 Introduction / Invited / SI

- 9:00 - 9:15 Introduction
9:15 - 10:00 *Oliver Bühler (invited)*: Wave-vortex decomposition of one-dimensional atmospheric energy spectra
10:00 - 10:25 *Lena Schoon (SI)*: Spontaneous and induced emission of gravity waves
10:25 - 10:50 *Costanza Rodda (SI)*: Experimental evidence for an optimal configuration of a baroclinic wave tank to study gravity wave emission from jets and fronts
10:50 - 11:20 **Break**

Session 2 SI /GW-ICE

- 11:20 - 11:45 *Fabienne Schmid (SI)*: Spontaneous gravity-wave emission
11:45 - 12:10 *Elena Gagarina (SI)*: The baroclinic life cycle experiments in PincFloit (prel)
12:10 - 12:35 *Niklas Ehlert (GW-ICE)*: Ice cloud microphysics parametrizations in an atmospheric dynamics code
12:35 - 13:30 **Lunch**
13:30 - 14:30 **Breakout time**

Session 3 GWING / Invited

- 14:30 - 15:15 *Yaga Richter (invited)*: QBO in the warming climate and the role of gravity wave parameterizations
15:15 - 15:40 *Claudia Stephan (GWING)*: Resolved gravity waves in global simulations
15:40 - 16:05 *Sebastian Borchert (GWING)*: Application of UA-ICON in NWP mode
16:05 - 16:20 *Almut Gassmann*: The roles of imbalances for large-scale dynamics and gravity waves
16:20 - 16:50 **Break**

Session 4 3DMSD /SV

- 16:50 - 17:15 *Gergely Bölöni (3DMSD)*: Towards a transient gravity wave drag parametrization in ICON
17:15 - 17:40 *Georg Sebastian Völker (3DMSD)*: WKB Theory of Triad Interactions of Internal Gravity Waves in Varying Background Flows
17:40 - 18:05 *Mark Schlutow (3DMSD)*: Nonlinear saturated waves, modulational stability and secondary waves
18:05 - 18:30 *Young-Ha Kim (SV)*: Introducing convective sources of gravity waves into MS-GWaM
19:00 **Dinner at Hotel Aquamarin**

Workshop MS-GWaves Kühlungsborn 25-28 March 2019 – Agenda

Wednesday 27 March

Session 5 SV / Invited

- 8:45 - 9:30 *Alexis Le Pichon and Elisabeth Blanc (invited):* The ARISE project (Atmospheric dynamics Research InfraStructure in Europe)
- 9:30 - 9:55 *Conny Strube (SV):* Spatio-Temporal Gravity Wave Source Variability
- 9:55 - 10:20 *Markus Geldenhuys (SV):* Greenland: Quest for the gravity wave source...
- 10:20 - 10:50 **Break**

Session 6 PACOG

- 10:50 - 11:15 *Marwa Almowafy (PACOG):* Seasonal Variability of GWPED
- 11:15 - 11:40 *Gunter Stober (PACOG):* Multi-static meteor radar observations as tool to observe horizontal wavelength spectra
- 11:40 - 12:05 *Robert Reichert (PACOG):* 16 months of lidar temperature measurements in the middle atmosphere above Tierra del Fuego
- 12:05 - 12:50 **Lunch**
- 12:50 - 13:20 *ECS: Discussion about future ECS meetings*
- 13:20 - 15:50 Outdoor
- 12:50 - 15:50 ARISE
- 15:50 - 17:05 **Coffee/ Breakout time**

Session 7 PACOG / Invited

- 17:05 - 17:50 *Laura Holt (invited):* Gravity wave impacts on circulation and transport: Insights from global high resolution models and observations
- 17:50 - 18:15 *Tyler Mixa (PACOG):* Gravity Wave-Fine Structure Interactions: The Importance of Small-Scale Dynamics in MLT Modeling.
- 19:15 **Dinner at Restaurant Vielmeer**

Thursday 28 March

- 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 Workshop

- 13:00 - 18:00 SI-Meeting until Friday 29 March 12:00

Time frame: **25 min presentation: 17 min presentation +8 min discussion**
 45 min presentation: 35 min presentation + 10 min discussion