# Second MS-GWaves Workshop 11-15 April 2016 in Schmitten

Agenda

## **Internal Diversity Awarenes/ Discussion Training Courses:**

**Young Scientists:** Monday 11 April 16:00 - Wednesday 13 April 12:00

Pls: Tuesday 12 April 13:00 - Wednesday 13 April 12:00

## **Scientific Workshop:**

#### Wednesday 13 April

Wednesday 13 April			
10:00-12:00	Gender/Diversity/Career Discussion for all (male and female) Young Scientists with Kaoru Sato and Chantal Staquet		
12:00-13:00	Lunch		
Session 1	Chair: Ulrich Achatz		
13:00-13:15	Introduction (Ulrich Achatz)		
13:15-14:00	Ronald Smith (invited): Observing and Modeling Gravity Waves from the Troposphere to the Mesosphere		
14:00-14:20	Sonja Gisinger (GW-TP / ROMIC GW-LCycle): GW-LCYCLE2 - field phase completed, analysis started		
14:20-14:40	Isabell Krisch (SV/GW-LCYCLE – GLORIA): Gravity Wave Measurements with GLORIA during the GW-LCYCLE Campaign from January - March 2016		
14:40-15:00	Irina Strelnikova (PACOG / ROMIC GW-LCycle): IAP observations during GWLCYCLE 2 campaign		
15:00-15:30	Break		
Session 2	Chair: Franz-Josef Lübken		
15:30-16:15	Kaoru Sato (invited): Interannual and intraseasonal variation of gravity waves in the tropical stratosphere revealed by high-resolution AIRS observations		
16:15-16:35	Kathrin Baumgarten (PACOG): New results for GW analysis from lidar and radar data		
16:35-16:55	Sven Wilhelm (PACOG): Particularities of the winter season 2015/16 relating mesospheric and tropospheric measurements		
16:55-17:15	Benedikt Ehard (PACOG): Vertical propagation of large amplitude mountain waves at the edge of the polar vortex		

20 min presentation: 12 min presentation + 8 min discussion 45 min presentation: 35 min presentation + 10 min discussion

17:15-17:45	Break
17:45-18:45	Discussion
19:00	Dinner
20:00-20:45	Akylas Triantaphyllos (invited): Resonant Long-Short Wave Interactions in an Unbounded Rotating Stratified Fluid
20:45-22:30	Informal discussions

# Thursday 14 April

Session 3	Chair: Günther Zängl
8:15-9:00	Francois Lott (invited): Parameterization of non_orographic gravity waves in Climate models, formalism, impact and test against observations
9:00-9:20	Guidi Zhou (GWING). UA-ICON - State of Development: Physics
9:20-9:40	Sebastian Borchert (GWING). MA-ICON - State of development: Dynamics
9:40-10:10	Break
Session 4	Chair: Rupert Klein
10:10-10:55	Chantal Staquet (invited): On energy transfers toward large scales from oceanic internal gravity waves
10:55-11:15	Christopher Pütz (GW-TP): Short Wavelength Gravity Waves in the Tropopause
11:15-11:35	Vera Bense (GW-TP): Idealized Simulations of Orographic Gravity Waves - Case Studies for Observed Tropopause Configurations
11:35-11:55	Tanja Portele (GW-TP): Mountain Wave Propagation under Transient Tropospheric Forcing - A DEEPWAVE Case Study
12:00-12:45	Lunch
12:45-14:30	Walk
Session 5	Chair: Christoph Zülicke
14:30-14:50	Joran Rolland (SI): Three dimensional Orthogonal basis for gravity waves and planetary waves, for projected dynamics and analysis
14:50-15:10	Steffen Hien (SI): Gravity wave emission and propagation in the differentially heated rotating annulus experiment
15:10-15:30	Lena Schoon (SI): Preliminaries for vortex dipole simulations to study jet-generated gravity waves
15:30-15:50	Costanza Rodda (SI): First experimental results from the new differentially heated rotating annulus
15:50-16:10	Illja Horenko (SI): SI-Project: HPC Data-Analysis beyond the usual assumptions
16:10-16:40	Break

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## Thursday 14 April

Session 6	Chair: Uwe Harlander
16:40-17:00	Gergely Bölöni (3DMSD): The interaction between atmospheric gravity waves and large-scale flows: an efficient description beyond the non-acceleration theorem
17:00-17:20	Junhong Wei (3DMSD): Gravity-wave mean-flow interactions extended: Rotation and unbalanced backgrounds
17:20-17:40	Bruno Ribstein (ROMIC-GRAVITY): Interaction between Middle-Atmosphere Solar- Tides and Gravity-Waves
17:40-18:00	Mark Schlutow (3DMSD): Pseudo-incompressible gravity wave trains and stability
18:00-18:45	Discussion
18:45	Dinner
20:00-22:30	Project Meetings/ Informal discussions / Gender discussion

## Friday 15 April

8:00-10:00	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

13:00 End of Workshop

13:00-15:00 PI Meeting

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