ARISE Training School

3-5 June 2013, Observatoire de Haute-Provence, St. Michel l'Observatoire, France

FINAL AGENDA

Sunday, June 2nd: Opening of the Training School

15:00-18:00	Arrival of participants and Registration	
18:00-19:00	Opening of the training school +ice breaker	Elisabeth Blanc
19:00-20:00	First visit of the site and the instruments	
20:00-21:30	Buffet dinner	

Monday June 3rd: Measurement techniques at OHP

07:30-08:00	Registration	
08:00-08:15	Welcome	Directeur de l'OHP
08:15-08:45	Atmospheric structure and numerical models, general circulation Great challenges?	Alain Hauchecorne
08:45-09:30	Lidar technique; temperature and wind retrieval, atmospheric wave retrieval	Philippe Keckhut
09:30-10:15	Infrasound technique and products	Christoph Pilger
10:15-10:45	Coffee break	
10:45-11:30	Temperature deviation in the mesopause region by means of OH* spectrometry	Carsten Schmidt
11:30-12:15	Microwave technique and wind retrieval	Rolf Rüfenacht
12:15-14:00	Lunch (all participants eat onsite)	

14:00-15:00	Complementary atmospheric dynamics observations: from ground to space	Alain Hauchecorne
15:00-16:00	Oral presentations on instrumentation (selected abstracts from students)	
15:00-15:15	Towards understanding the sources of gravity waves at mid and high latitudes using COSMIC GPS temperature data	Sergeï Khaykin
15:15-15:30	Wind at high altitude: Analyze and comparisons between high altitude (25 km-40 km) wind measurements deduced from balloon borne flights and ERA Interim Re- analysis	Fabrice Duruisseau
15:30-15:45	Links between mesopause temperatures and ground based VLF narrowband radio signals	Israel Silber
15:45-16:00	Atmospheric Wave Observations with the E - Region Wind Interferometer	Samuel Kristoffersen
16:00-18:00	Poster session on instrumentation	
18:30-20:00	Dinner (participants staying at the OHP housing eat onsite)	
20:00- 22:00	Training sessions	

Tuesday June 4th: Atmospheric dynamics and coupling

08:30-09:15	Gravity waves: theory, origin, impact	Françis Dalaudier
09:15-10:00	Planetary waves and stratospheric warming:	Andrew Charlton Perez
10:00-10:15	Coffee break	
10:15-11:00	Atmospheric tide issues, observations and simulations	Philippe Keckhut
11:00-11:45	Atmospheric waves and temperature trends using NDMC measurements	Sabrina Wildner
11:45-12-30	Gravity wave coupling of atmospheric layers: global measurements and modeling of gravity waves	Peter Preusse
12:30-14:00	Lunch (all participants eat onsite)	

14:00-15:00	Use of reference events (natural or man-made origin) for calibration of models	Stevens Gibbons
15:00-16:00	Oral presentations on atmospheric dynamics and coupling (selected abstracts from students)	
15:00-15:15	Potential Impacts of ARISE Measurement Techniques on Weather Forecasts	Christopher F. Lee
15:15-15:30	Gravity Wave Observations using an All Sky Imager situated at the Polar Environment Atmospheric Research Laboratory at Eureka, Canada (80 N)	Chris Vail
15:30-15:45	Gravity wave momentum flux variability in the high latitude northern hemisphere winter mesosphere/lower thermosphere	Rosemarie de Wit
15:45-16:00	Planetary wave structure in the MLT derived from a chain of northern hemispheric Super DARN radars	Nora H. Kleinknecht
16:00-18:00	Poster session on atmospheric dynamics and coupling	
18:30-20:00	Dinner (participants staying at the OHP housing eat onsite)	
20:00-22:00	Training sessions	

Wednesday June 5th: Civil and scientific applications, extreme events, data use for atmospheric and climate modeling

08:30-09:15	Monitoring of extreme events: volcanoes, avalanches, earthquakes…	Emmanuele Marchetti
09:15-10:15	Thunderstorms: lightning, sprites, convection, stratospheric effects: Observations - Elisabeth Blanc Models – Philippe Heinrich	Elisabeth Blanc/ Philippe Heinrich
10:15-10:30	Coffee break	
10:30-11:30	Infrasound simulation: network performance models: Alexis Le Pichon Inversion methods – Jelle Assink	Alexis Le Pichon/ Jelle Assink
11:30-12 :15	Trends and inter-annual changes	Philippe Keckhut

12:15-13:30	Lunch (all participants eat onsite)	
13:30-14:00	Depart for Saint Michel l'Observatoire where afternoon session will be held	
14:00-15:00	Climate model, coupling and data requirements	Andrew Charlton-Perez
15:00-16:00	Oral presentations on extreme events, models, satellite validation and trends (selected abstracts from students)	
15:00-15:15	Passive monitoring of Mt Etna volcano to probe the upper atmosphere	Jelle Assink
15:15-15:30	Infrasonic signature: a new way of monitoring sudden stratospheric warmings	Pieter Smets
15:30-15:45	Remote infrasound monitoring of Mount Etna: Observed and predicted network detection capability	Doriane Tailpied
15:45-16:00	Thunderstorm simulation over the OHP, using the WRF model	Lorenzo Costantino
16:00-17:00	Return to the OHP	
17:00-18:00	Poster session	
18:00-18:30	Hotel	
19:00-23:00	Gala dinner	
23:00-24:00	VIP tour	