



SPARC
Stratosphere-troposphere
Processes And their Role in Climate



GAW



Maïdo Observatory Summer School

MOSS, Reunion Island, 28 Nov. - 03 Dec. 2016

Program of the summer school

Monday 28 November			
Time	Activity	Description	location
07:00-09:00	Breakfast and bus transfer	Village Corail, Hermitage > University Campus, St-Denis	
09:00-10:00	Registration and Coffee	Faculty of Sciences & Technologies	FST entrance lobby
10:00-11:00	Opening ceremony	Faculty of Sciences & Technologies	salle des Conseils, FST
11:00-12:00	Lecture	- Dr. Hervé Le Treut , Professor Univ. Paris 6, France <i>Climate change: uncertainties and risk assessment of future evolutions</i>	salle des Conseils, FST
12:00-14:00	Lunch	lunch cocktail	La Bourbonnaise, CROUS
14:00-14:30	Introduction	Introduction of participants (students and speakers)	salle des Conseils, FST
14:30-16:00	Lecture	- Dr. Cathy LIOUSSE , LA, Univ. Paul-Sabatier, France <i>Anthropogenic emissions at global and regional scale</i>	salle des Conseils, FST
16:00-17:00	Bus transfer	St-Denis > Village Corail, Hermitage	

Tuesday 29 November			
Time	Activity	Description	
07:00-08:30	Breakfast	Village Corail RESTAURANT, Hermitage	
08:30-10:00	Session - 1 Tropospheric chemistry and processes (1)	- Dr. Helène VEREMES , LACy, Univ. de La Réunion, France <i>Stratosphere-Troposphere Exchanges : focus on subtropical and tropical areas</i>	Village Corail, Hermitage
10:00-10:15	<i>Break and drinks</i>	Village Corail BAR, Ermitage	
10:15-12:00	Session - 2 Tropospheric chemistry and processes (2)	- Dr. Stuart PIKETH , Prof., North West Univ., South Africa <i>Air pollution from solid fuel combustion - implications for Atmospheric chemistry</i>	Village Corail, Hermitage
12:15-13:45	Lunch	Village Corail RESTAURANT, Hermitage	
14:00-15:30	Session - 3 Stratospheric chemistry and processes (1)	- Dr. Sophie GODIN-BEEKMANN , LATMOS, Paris, France <i>Stratospheric chemistry and processes</i>	Village Corail, Hermitage
15:30-15:45	<i>Break and drinks</i>	Village Corail BAR, Ermitage	
15:45-16:30	Session - 4 Stratospheric chemistry and processes (2)	- Dr. Caradee WRIGHT , RMC, Univ. of Pretoria, South Africa <i>Solar ultraviolet radiation, ozone and human health</i>	Village Corail, Hermitage
16:30-17:30		- Dr. Alain HAUCHECORNE , LATMOS, Paris, France <i>Middle atmosphere dynamics</i>	

Wednesday 30 November

Time	Activity	Description	
07:00-08:30	Breakfast	Village Corail RESTAURANT, Hermitage	
08:30-10:00	Session - 5 observations: optical, chemical, spectrometric ... methods (1)	- Dr. Pierre COHEUR , Univ. Libre de Bruxelles, Belgium <i>Passive remote sensing of atmospheric composition: radiation, spectroscopy and radiative transfer</i>	Village Corail, Hermitage
10:00-10:15	<i>Break and drinks</i>	Village Corail BAR, Hermitage	
10:15-11:15 11:15-12:15	Session - 6 observations: optical, chemical, spectrometric ... methods (2)	- Dr. Philippe KECKHUT , LATMOS, Paris, France <i>Atmospheric Long-Term Monitoring</i> - Prof. Sivakumar VENKATARAMAN , UKZN, South Africa <i>Atmospheric studies using LiDAR and Sun Photometer</i>	Village Corail, Hermitage
12:15-13:30	Lunch	Village Corail RESTAURANT, Hermitage	
13:30-14:45	Session - 7 observations: optical, chemical, spectrometric ... methods (3)	- Dr. Mahesh KUMAR SHA , IASB, Belgium <i>Instrumental techniques for remote sensing of the atmosphere in the infrared spectral region</i>	Village Corail, Hermitage
14:45-16:15	<i>Bus transfer</i>	<i>Bus transfer to the Maïdo Observatory</i>	
16:15-16:30	<i>Break and drinks</i>	Maïdo Observatory lobby	Maïdo Observatory
16:30-18:30	Observatory visit	Visit of Maïdo Observatory instruments (small groups per instrument)	Maïdo Observatory
18:30-19:30	Balloon-sonde launch	Depending on weather conditions ...	Maïdo Observatory
19:30-20:00	Dinner	Picnic dinner at the observatory	Maïdo Observatory
20:00-21:15	LiDAR acquisitions	Visit of LiDAR rooms during acquisition (weather conditions?)	Maïdo Observatory
21:15-22:30	<i>Bus transfer</i>	<i>Drive back to Village Corail, Hermitage</i>	

Thursday 01 December

Time	Activity	Description	
08:00-10:00	Breakfast	Village Corail RESTAURANT, Hermitage	
10:00-12:00	Session - 8 Global modelling and numerical tools	- Dr. Slimane BEKKI , LATMOS, Paris, France <i>Chemistry-transport and chemistry-climate modelling</i>	Village Corail, Hermitage
12:00-13:30	Lunch	Village Corail RESTAURANT, Hermitage	
13:30-15:00	Session - 9 Regional modelling and numerical tools	- Dr. Soline BIELLI-BOUSQUET , LACy, Univ. Réunion <i>Mesoscale models used in La Reunion: general overview and applications</i>	Village Corail, Hermitage
15:00-15:30	<i>Break and drinks</i>	Village Corail BAR, Hermitage	
15:30-16:15	Session - 10 Regional modelling and numerical tools	- Dr. Nelson BEGUE , LACy, Univ. de la Réunion <i>Aerosol transport in the tropical stratosphere</i>	Village Corail, Hermitage
16:15-17:30	Session - 11	Restitution & discussion of the Maïdo data acquisitions	Village Corail, Hermitage
19:00-23:59	<i>Gala dinner</i>	<i>Gala dinner</i>	<i>Relais de l'Hermitage Hotel</i>

Friday 02 December

<i>Time</i>	<i>Activity</i>	<i>Description</i>	
07:00-08:30	<i>Breakfast</i>	<i>Village Corail RESTAURANT, Hermitage</i>	
08:30-10:00	Session – 12 Remote sensing and Satellite observations	- Dr. Pierre COHEUR , Univ. Libre de Bruxelles, Belgium <i>Global atmospheric composition measurements from infrared sounders on satellites</i>	Village Corail, Hermitage
10:00-10:30	<i>Break and drinks</i>	<i>Village Corail BAR, Hermitage</i>	
10:30-12:00	Session – 13 Remote sensing and Satellite observations	- Prof Sivakumar VENKATARAMAN <i>Application of Satellite Data for Atmospheric Studies</i>	Village Corail, Hermitage
12:15-13:30	<i>Lunch</i>	<i>Village Corail RESTAURANT, Hermitage</i>	
13:30-14:00	<i>Bus transfer</i>	<i>to Kelonia marine turtles conservatory</i>	
14:00-16:00	<i>Kelonia visit</i>	<i>Kelonia is a marine turtles conservatory</i>	
16:00-16:30	<i>Bus transfer</i>	<i>Drive back to Village Corail, Hermitage</i>	

END of the MOSS



GAW



Maïdo Observatory Summer School

MOSS, Reunion Island, 28 Nov. - 03 Dec. 2016

List of expected lecturers

<i>Surname</i>	<i>First name</i>	<i>Field of expertise</i>	<i>Affiliation</i>
BEKKI	Slimane	Modélisation globale	LATMOS, UPMC
BENCHERIF	Hassan	Dynamics Strato	LACy, Université de la Réunion
BIELLI-BOUSQUET	Soline	Médélisation régionale	LACy, Université de la Réunion
CAMMAS	Jean-Pierre	Dynamics UT-LS, Obs. & réseaux	LACy, Université de la Réunion
COHEUR	Pierre	Chimie, spectro, satellite	Université Libre de Bruxelles
DUFLOT	Valentin	Transport tropo, mesures	LACy, Université de la Réunion
FORMENTI	Paola ?	Transport aérosols tropo (ARSAIO)	LISA, Université de Créteil
GODIN-BECKMANN	Sophie	Ozone strato, climat et mesures	LATMOS, UVSQ
HAUCHECORNE	Alain	Dynamics Strato, mesures LiDAR	LATMOS, UVSQ
KECKHUT	Philippe	Variabilité et mesures LiDAR	LATMOS, UVSQ
KUMAR SHA	Mahesh	Satellite and remote sensing for atmos	RBISA, Brussels, Begium
LETREUT	Hervé	Climat et CC	LMD, Paris
LIOUSSE	Cathy	Pollution tropo (ARSAIO)	LA, Université Paul Sabatier, Toulouse
PAYEN	Guillaume	Mesures OPAR	OPAR, Université de la Réunion
PIKETH	Stuart	Transport aérosols tropo (ARSAIO)	North West University
PORTAFAIX	Thierry	Variabilité et mesures ozone	LACy, Université de la Réunion
SINGH	Upendra	Réseaux d'obs, sol et sat	NASA, LRC, Hampton, USA
SIVAKUMAR	Venkataraman	Mesures/réseau régionna (ARSAIO)	University of KwaZulu-Natal, Durban, AfS
VERMES	Hélène	Transport et chimie troposphérique	LACy, Université de la Réunion
WRIGHT	Caradee	UV-santé, réseau et mesures	RMC, University of Pretoria, AfS