

Maïdo Observatory Summer School (MOSS)



November 18-22, 2024



La Réunion Island (21°S, 55°E)

The MOSS-2024 summer school is directed towards **Master students, PhD students, young researchers and engineers** who want to acquire knowledge and understanding of the processes and changes in the Earth's atmosphere (in particular, aerosols and trace gases in the troposphere and stratosphere), with an emphasis on dynamics, long-term evolution of atmospheric composition, and climate change.

	Sunday 17 November	Monday 18 November	Tuesday 19 November	Wednesday 20 November	Thursday 21 November	Friday 22 November
		Université de La Réunion	Village de Corail	Village de Corail et Observatoire Atmosphérique du Maïdo	Village de Corail	Village de Corail
MORNINGS	06:00-06:30			06:00-07:30 Bus transfer to the Maïdo Observatory		
	06:30-07:00					
	07:00-07:30			07:30-08:00 Free break / Temps libre		
	07:30-8:00			08:00-08:30 Coffee break		
	8:00-8:30	07:00-09:30 Bus transfer Hermitage > Saint-Denis				
	8:30-9:00					
	9:00-9:30	Opening	Pierre-François Coheur - Monitoring atmospheric composition using hyperspectral IR sounding missions	Constantino Muñoz - Lidar techniques for atmospheric sounding	Bernard Legras - Introduction to atmospheric transport	Vagner Anabor - Biomass Burning in South America Observations and Atmospheric Modeling: Transport and possible Impacts
	9:30-10:00	Marie-Dominique Leroux - Climate change over the southwest Indian ocean region and its islands	Jean-Paul Vernier (NASA) Global 3D observations of clouds and aerosols from space by the CALIOP lidar		Sergey Khaykin - Impact of wildfires and volcanic eruptions on stratospheric composition and dynamics	Gisèle Krystofak - FLEXPART: description of the trajectories model, special focus on the postprocessing part
	10:00-10:30					
	10:30-11:00	10:30-11:00 Coffee break	10:30-11:00 Coffee break	10:30-11:00 Coffee break	10:30-11:00 Coffee break	10:30-11:00 Coffee break
11:00-11:30	Paola Formenti - Atmospheric aerosols: lifecycle, properties and impacts	Jonas VON BISMARCK (ESA) Earth Cloud Aerosol and Radiation Explorer (EarthCARE)	Constantino Muñoz - Lidar techniques for atmospheric sounding	Nelson Bêgue / Marion Ranaivombola - Characterization of aerosol plumes transport over Southern Africa and Southwest of Indian Ocean in 2022.	Luiz Angelo Stefanel - Improving meteorological models with AI: tools and opportunities	
11:30-12:00					Wrap up and departure	
12:00-14:00	12:00-12:30	12:00-13:30 Lunch Université de La Réunion (Moufia)	12:00-14:00 Lunch Village de Corail	12:00-13:30 Lunch at Maïdo Observatory	12:00-14:00 Lunch Village de Corail	12:00-14:00 Lunch Village de Corail
	12:30-13:00					
	13:00-13:30	12:30 or 13:00 Bus transfer Airport > Saint-Gilles-les-Bains	Jean-Paul Vernier - The earth's atmosphere seen from space: an historical overview and future perspectives	Sophie Godin-Beekman - Evolution of the ozone layer and its interaction with climate change	13:30-15:30 Visit of Maïdo Observatory instruments (small groups per instrument)	Paola Formenti - Results of ongoing research on atmospheric aerosols in Namibia and South Africa
	13:30-14:00					
AFTERNOONS	14:00-14:30	14:30-15:00 Coffee break	15:00-15:30 Coffee break	15:00-15:30 Coffee break	15:00-15:30 Coffee break	
	14:30-15:00	Valentin Duffot - Atmospheric research infrastructures	Alain Hauchecorne - Lidar technology to monitor the middle atmosphere		Damaris Kirsch Pinheiro - Atmospheric chemistry and Brazilian BB	
	15:00-15:30					
	15:30-16:00	16:00-17:30 Bus transfer Saint-Denis > Hermitage	Discussions with TwinSolar project	15:30-17:00 Visit of LIDAR rooms	17:00-18:30 Bus transfer Maïdo Observatory > Hermitage	Evelyne Tarnus - Exploiting Horizon Europe to collaborate with La Réunion
	16:00-16:30					
	16:30-17:00					
	17:00-17:30					
	17:30-18:00					
EVENINGS	18:00-18:30					
	18:30-19:00					
	19:00-19:30					
	19:30-20:00	19:30 - 21:00 Dinner at Village de Corail	18:30-21:30 MOSS x TWIN SOLAR SOCIAL DINNER	19:30 - 21:00 Dinner at Village de Corail	19:30-22:30 GALA DINNER	17:00 or 17:30 Bus transfer Saint-Gilles-les-Bains > Airport
	20:00-20:30					
	20:30-21:00					
	21:00-21:30					

During this 5-day event, students and speakers will be hosted at [Le Village de Corail](#), in Saint-Gilles. Registration fees cover accommodation, food and transportation while on the island.

Picture: ©Yann Hello



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