

Summer school 2015

Program

Version: 6/5/2015

Challenges in measurement and modelling of Greenhouse Gases

	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
Time	20-May-15	21-May-15	22-May-15	23-May-15	24-May-15	25-May-15	26-May-15	27-May-15	28-May-15	29-May-15
8:00	Breakfast									
9:00	Short elevator pitch of students	Welcome	Lecture	Lecture	Free	Lecture	Lecture	Lecture	Practical	Bus transport to Helsinki
		Practical	Chamber flux measurements - M. Pihlatie	Concentrations, Isotopes, scale issues - M. Schmidt		The climate system - M. Heimann	Other GHG overview - C. Brenninkmeijer	Arctic and boreal systems - A. Lindroth	Modeling (M. Heimann, M. Krol, A. Vermeulen, C. Gerbig)	
10:15		coffee break				coffee break				
10:45		Lecture	Poster session	Lecture		Lecture	Practical	Lecture	Practical	
		ICOS & European Infrastructures for Environment - Werner Kutsch		Satellites, FTIRs - S. Houweling		The Carbon Cycle - M. Heimann	Measurements (cont)	Bottom up emissions - Greet Maenhout	Modeling (cont)	
12:00	Lunch									
13:30	Lecture	Field trips	Lecture	Practical	Practical	Practical	Lecture	Practical		
	Measurement instrument principles - C. Gerbig	Wetland field trip 1 - T. Vesala/ SMEAR II	Radiation balance, fluorescence - Chr. vd Tol	Time series analysis - M. Schmidt	Measurements	Measurements (cont)	Modeling overview - M. Heimann	Modeling (cont)		
15:00	coffee break									
15:30	Lecture	Field trips	Lecture	Practical	Practical	Practical	Lecture	Practical		
	Micromet. flux measurements - T. Vesala / I.Mammarella	Wetland trip 2 - T.Vesala/SMEAR II	Measurement data treatment, provenance, curation - A. Vermeulen	Time series analysis + report writing	Measurements (cont)	Measurements reporting	Global modeling, inversions - M. Krol	Modeling (cont)		
17:00	Bus transport from Helsinki									
18:00		Dinner							Dinner	Dinner
19:00		Movie evening	relax/sauna	relax/sauna	relax/sauna	relax/sauna	Measurements presentations	Dinner / Party	Wrap - up	
	Dinner									relax/sauna