

EASI TRAINING COURSE, June 25- July 4, 2017, SHANNON (Ireland)





	DAY 4 Constant OFth June	DAY 2 Manday 20th June	DAY 2 Tuesday 27th June	DAY 4 Wednesday 20th lune	DAY F Thursday 20th June
	DAY_1. Sunday 25th June	DAY_2. Monday 26th June Airborne turbulence measurements and	DAY_3. Tuesday 27th June Airborne measurements of aerosols and	DAY_4. Wednesday 28th June	DAY_5. Thursday 29th June
	Arrival and welcome	flight strategies	clouds	Flight 1 and WG activity (*)	Flight 2 and WG activity (*)
9:00-10:30		the EUFAR trainers, and SAFIRE members. Plan for training course and outline of the programme [FC]	Briefing with the aircraft crew. Groups 1 and 2 (10 students). [Safire Staff]	experimental site Equipment and site preparation (flight targets)	8:00 Meteo and Flight 2. Departure to experimental site. Equipment and site preparation (flight targets) 9:00 Group work for other WGs
		Working Groups (WG) supervisors, divide	and flight procedures. Flight safety and working rules onboard. Groups 3 and 4 (10 students) [Safire Staff]		
10:30-11:00		Coffee break	Coffee break	Coffee break	Coffee break
11:00-12:30		Lecture 1: Introduction to atmospheric turbulence. (Definitions of turbulence, Reynolds averaging, Turbulent Kinetic Energy equation, introduction to Kolmogorov theory, elementary information on atmospheric turbulence). [SM]		Group work for other WGs	Group work for other WGs
12:30-14:00		Lunch	Lunch	Lunch	Lunch
14:00-15:00	14:00 departure from the Dublin international Airport by shuttle bus	Lecture 2: The structure of marine/coastal boundary layers and some flight sampling strategies [IF]	limitations and flight procedures. Flight safety and working rules onboard. Group 1 and 2	budgeting techniques, and atmospheric	(Focus on TKE and TKE dissipation rate,
15:00-15:30		Coffee break	Coffee break	Coffee break	Coffee break
15:30-16:30		aerosols and clouds 1 [FC]	Lecture 6: Processing core parameters of the ATR42 [BP]	and high-frequency data [BP]	tools [BP]
		modifications and possible measurements on		analysis &/or tutorials with analysis tools.	&/or tutorials with analysis tools.
18:30-19:00			Tutorial 1: Sample exercise of turbulent data analysis [IF & BP] REPORTING 1: Each scientific working group reports on sampling strategy and flight plan [for each WG, one rapporteur]		
19:00-20:00	Dinner	Dinner	Dinner	Dinner	Dinner



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	DAY_6 Friday 30th June	DAY_7. Saturday 1st July	DAY_8. Sunday 2nd July	DAY_9. Monday 3rd July	DAY_10. Tuesday 4th July
	Flight 3 and WG activity (*)	Flight 4 and WG activity (*)	Airborne data processing	Visit to MaceHead Atmospheric Research Station	Student presentations
9:00-10:30	8:00 Meteo and Flight 3. Departure to experimental site. Equipment and site preparation (flight targets). 9:00 Group work for other WGs	8:00 Meteo and Flight 4. Departure to experimental site. Equipment and site preparation (flight targets). 9:00 Group work for other WGs	Lecture 15: Coastal meteorology 2. Air Sea Land interactions [MM]	7:30 Departure from Shannon to Mace Head Atmospheric Research Station	FINAL REPORTING Scientific Working Group I: Presentation Scientific Working Group II: Presentation Scientific Working Group III: Presentation
10:30-11:00	Coffee break	Coffee break	Coffee break		Coffee break
11:00-12:30	Group work for other WGs	Group work for other WGs	Lecture 16: Remote vs ground measurements of aerosols and their impact on climate [DC]		11:00 to 11:30 Scientific Working Group IV: Presentation 11:30 to 12:00 Conclusions
12:30-14:00	Lunch	Lunch	Lunch	Packed lunch at the site	12:15 -13:15 Lunch
14:00-15:00	Lecture 11: Flux estimations [IF]	Lecture 13: Marine Aerosols [DC]	Student activity 6: Measured data analysis &/or tutorials with analysis tools. Student presentations preparation.		13:30 Departure to Dublin international airport by shuttle bus
15:00-15:30	Coffee break	Coffee break	Coffee break		
15:30-16:30	Lecture 12: Airborne measurements of aerosols and clouds 2 [FC]	Lecture 14: 15:30-17:00 Coastal meteorology 1 . Concepts and equations [MM]	FREE AFTERNOON		
16:30-18:30	Student activity 4: Measured data analysis &/or tutorials with analysis tools. Brief report of flight 3 from associated WG.	Student activity 5 17:00- 18:30: Measured data analysis &/or tutorials with analysis tools. Brief report of flight 4 from associated WG.			
18:30 -19:00				18:30 Estimated arrival in Shannon	
19:00-20:00	Dinner	Dinner	Dinner	Special Dinner	

(*) Depending on weather forecast and on the flight goals, the flight can be moved to the afternoon. Then, the afternoon program will be moved to the morning.



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Trainers

AL – Alessandra S. Lanotte, CNR – ISAC, Lecce, Italy, a.lanotte@isac.cnr.it	EURAR training course director	
FC – Francesco Cairo, CNR – ISAC, Rome, Italy, f.cairo@isac.cnr.it	EUFAR trainer & course director	
IF – Ian Faloona, UCD, University of California Davis, Davis California, icfaloona@ucdavis.edu	EUFAR trainer	
SZ – Szymon Malinowski, University of Warsaw, Warsaw, Poland, malina@igf.fuw.edu.pl	EUFAR trainer	
MM – Mario M. Miglietta, CNR – ISAC, Lecce, Italy, m.miglietta@isac.cnr.it	EUFAR trainer	
BP – Bruno Piguet - Meteo France, Toulouse, France, bruno.piguet@meteo.fr	EUFAR trainer	
DC - Darius Ceburnis - National University of Ireland Galway, Ireland, darius.ceburnis@nuigalway.ie	EUFAR trainer	
OH – Olivier Henry - Meteo France, Toulouse, France, olivier.henry@meteo.fr	EUFAR trainer	
TBA	SAFIRE staff (8 people)	
TBA	VITO staff/EUFAR Office	