

STANCO Training Course, 26 June - 6 July 2017, Cambridge, UK PROGRAM

	Monday 26/06	Tuesday 27/06	Wednesday 28/06	Thursday 29/06		Friday 30/06	Saturday 01/07
9:00-10:30	Arrival	8:45-8:50 Welcome (EUFAR) 8:50-9:15 P. Di Carlo & J. McQuaid: Welcome and general information on STANCO course 9:15-10:30 Self introduction of students, division of students into working groups	R. Jones: Composition and climate change	R. Krejci: Aerosol microphysics and physically based methods	9:00-10:30	P. Brown: Flight planning, mission objectives, goals and risk assessment	M. Smith: BAe 146 safety rules A. Wellpott: BAE 146 data access and use
10:30-11:00		<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>	10:30-11:00	<i>Coffee break</i>	<i>Coffee break</i>
11:00-12:30		A. Archibald: Atmospheric chemistry: Key topics	J. McQuaid: airborne measurements of VOC : WAS and online techniques	A. Vaughan: New emerging instruments and techniques for airborne measurements of the atmospheric composition	11:00-12:00	A. Woolley: BAE146 aircraft introduction	J. Trembath: Instrument Fittings
12:30-13:30		Lunch	Lunch	Lunch	12:00-13:00	S. Devereau: Instrument Certification	O. Henry: Process, plot, analyze aircraft data: EGADS software (12:00-13:30)
13:30-14:45		A. Archibald: Models application to aircraft observations	S. Bauguitte: Chemistry of GHG-airborne measurements of GHG: QC-L technique	B. Ouyang: Airborne Custom Instruments: BBCEAS	13:00-14:00	Lunch	Lunch
14:45-15:00		<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>	14:00-15:00	Departure to airport to visit the BAe-146	Introduction to Airborne measurements analysis (J. McQuaid, S. Bauguitte, R. Krejci, P. Di Carlo)
15:00-16:00		S. Bauguitte: NOx chemistry and airborne measurement techniques for NOx, O3 and CO	A. Vaughan : Aircraft flux measurements	A. Aruffo: Aircraft custom Instruments: TD-LIF	15:00-15:15		<i>Coffee break</i>
16:00-17:00	17:00 Welcome Ice-breaker	P. Di Carlo: New frontiers on airborne observations: from big aircrafts to drones	R. Krejci: Aerosol chemistry, mixing state, SOA.	J. McQuaid: BAe 146 campaigns and main scientific results so far	15:15-16:00		Meteo, Flight planning
					16:00-17:00		Meteo briefing, flight objectives
19:30	Dinner	Dinner College	Dinner College	Dinner College	19:30	Dinner	Dinner College

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								College			
Sunday 02/07		Monday 03/07 (*)			Tuesday 04/07 (*)			Wednesday 05/07	Thursday 06/07		
	7:30	<i>(Group A)</i> Departure to airport		<i>(Group B, C)</i>	7:30	<i>(Group B, C)</i> Departure to airport		<i>(Group A)</i>	9:00-9:30	Debriefing	
Day off Tour of Cambridge	8:00-12:00	<i>Pre-flight</i>	9:00-10:30	E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, P. Di Carlo: Classroom Exercises: Data quality check	8:00-12:00	<i>Pre-flight</i>	9:00-10:30	E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, P. Di Carlo: Classroom Exercises: Data quality check	9:30-10:30	E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, P. Di Carlo: Data pre-analysis, discussion	Student presentations
	12:00-15:00	Mission Flight 1 (Group A)	10:30-11:00	<i>Coffee break</i>	12:00-15:00	Mission Flight 2 (Group B)	10:30-11:00	<i>Coffee break</i>	10:30-11:00	<i>Coffee Break</i>	<i>Coffee Break</i>
	16:30	Departure from airport	11:00-12:30	E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, P. Di Carlo: Classroom Exercises: Airborne Data analysis	15:00-16:30	Refuel; Departure from airport (Group B)	11:00-12:30	E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, P. Di Carlo: Classroom Exercises: Airborne Data analysis	11:00-12:30	E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, P. Di Carlo: Data pre-analysis, discussion	Student presentations STANCO conclusions
	17:00-17:30	Debriefing	12:30-13:30	<i>Lunch</i>	16:30-19:30	Mission Flight 3 (Group C)	12:30-13:30	<i>Lunch</i>	12:30-13:30	<i>Lunch</i>	<i>Lunch</i>
			13:30-14:45	E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, P. Di Carlo: Classroom Exercises: Airborne Data analysis	20:30	Departure from airport	13:30-14:45	E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, P. Di Carlo: Classroom Exercises: Airborne Data analysis	13:30-14:45	E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, P. Di Carlo: Data pre-analysis, discussion	<i>Student Departure</i>
			14:45-15:00	<i>Coffee break</i>			14:45-15:00	<i>Coffee break</i>	14:45-15:00	<i>Coffee break</i>	

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			15:00-17:00	E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, P. Di Carlo: Classroom Exercises: Airborne Data analysis			15:00-17:00	E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, P. Di Carlo: Classroom Exercises: Airborne Data analysis	15:00-17:00	E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, P. Di Carlo: Data analysis, discussion, preparation of student presentations	
Dinner College	19:30	Dinner College			20:45	Dinner College			19:30	Dinner College	

(*)

Students will be divided in 3 groups (Group A, B, C): Group A joins Mission Flight 1, Group B Mission Flight 2 and Group C Mission Flight 3. For each mission flight day the students not involved in the flight will attend classroom exercises on airborne measurements analysis, using data acquired during previous campaigns for the classroom exercises on Monday 03/07 and data collected during the STANCO mission flights for classroom exercises on Tuesday 04/07.