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|  | **Monday 26/06** | **Tuesday 27/06** | **Wednesday 28/06** | **Thursday 29/06** |  | **Friday 30/06** |  | **Saturday 01/07** |
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|  |  |  |  |  | *7:00* | *Departure to Cranfield* |  |  |
| 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 | 9:00-10:00  10:00-10:30 | **P. Brown**: Flight planning, mission objectives, goals and risk assessment  **A. Woolley:** BAE146 aircraft introduction | 9:00-10:30 | **O. Henry:** Process, plot, analyze aircraft data: EGADS software |
| 10:30-11:00 |  | *Coffee break* | *Coffee break* | *Coffee break* | 10:30-10:45 | *Coffee break* | 10:30-  11:00 | *Coffee break* |
| 11:00-12:30 |  | **A. Archibald:** Atmospheric chemistry: Key topics | **J. McQuaid:** airborne measurements of VOC : WAS and online techniques | **J. Trembath**: Aerosol Instrument Fittings on aircraft platform: setup, calibration | 10:45-12:00 | Meteo briefing, flight objectives and planning | 11:00-  12:00 | **P. Di Carlo:** New frontiers on airborne observations: from big aircrafts to drones |
| 12:30-13:30 |  | Lunch | Lunch | Lunch | 12:00-13:00 | Lunch | 12:00-  13:00 | Lunch |
| 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 | 13:00-13:30  13:30-  14:00 | **S. Devereau**: Instrument Certification  **M. Smith:** BAe 146 safety rules |  |  |
| 14:45-15:00 |  | *Coffee break* | *Coffee break* | *Coffee break* | 14:00-15:00 | **A. Wellpott:** BAE 146 data access and use |  |  |
| 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 | 15:00-17:00 | BAe-146 Visit |  | *Afternoon off* |
| 16:00-17:00 | **17:00-18:00** Welcome  Icebreaker Sidney Sussex College ( JCR TV Room) | **A. Vaughan:** New emerging instruments and techniques for airborne measurements of the atmospheric composition | **R. Krejci**: Aerosol chemistry, mixing state, SOA. | **J. McQuaid:** BAe 146 campaigns and main scientific results so far |  |  |  |  |
| 17:00 | Departure to Cambridge |  |  |
| 18:00 | Dinner College | Dinner D’Arry’s | Dinner D’Arry’s | Dinner free | 18:00 | Dinner D’Arry’s |  | Dinner free |

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| **Sunday 02/07** |  | **Monday 03/07 (\*)** | | |  | **Tuesday 04/07 (\*)** | | |  | **Wednesday 05/07** | **Thursday 06/07** |
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|  |  | *(Group A)* |  |  |  | *(Group B, C)* |  |  |  |  |  | |
|  | 7:30 | Departure to airport |  | *Group B, C)* | 7:00 | Departure to airport |  | *(Group A)* | 9:00-9:30 | Debriefing |  | |
| Day off  Tour of Cambridge | 9:00-12:00 | *Pre-flight*  *Science Briefing* | 9:00-10:30 | **M. Cain:** Introduction to Airborne measurements analysis | 8:30-10:00 | *Pre-flight*  *Science Briefing* | 9:00-10:30 | **M. Cain:** Introduction to Airborne measurements analysis | 9:30-10:30 | **E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, M. Cain,P. Di Carlo:** Data pre-analysis, discussion | Student presentations | |
|  | 12:00-15:00 | Mission Flight 1  (Group A) | 10:30-11:00 | *Coffee break* | 10:30-13:30 | Mission Flight 2  (Group B) | 10:30-11:00 | *Coffee break* | 10:30-11:00 | *Coffee Break* | *Coffee Break* | |
|  | 15:15  16:45 | De-briefing | 11:00-12:30 | **E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, M. Cain, P. Di Carlo:** Classroom Exercises:  Airborne Data analysis | 13:30-14:00 | Refuel; First flight De-briefing (Group B) | 11:00-12:30 | **E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, M. Cain,P. Di Carlo:** Classroom Exercises:  Airborne Data analysis | 11:00-12:30 | **E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, M. Cain,P. Di Carlo:** Data pre-analysis, discussion | Student presentations  STANCO conclusions | |
|  | 17:30 | Departure from the airport | 12:30-13:30 | *Lunch* | 14:00-14:30 | *Science Briefing* (Group C) | 12:30-13:30 | *Lunch* | 12:30-13:30 | *Lunch* | *Lunch* | |
|  |  |  | 13:30-14:45 | **E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, M. Cain,P. Di Carlo:** Classroom Exercises:  Airborne Data analysis | 15:15-18:15 | Mission Flight 3  (Group C) | 13:30-14:45 | **E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, M. Cain,P. Di Carlo:** Classroom Exercises:  Airborne Data analysis | 13:30-14:45 | **E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, M. Cain,P. Di Carlo:** Data pre-analysis, discussion | Student Departure | |
|  |  |  | 14:45-15:00 | *Coffee break* | 18:30-19:00 | De-briefing  (Group C) | 14:45-15:00 | *Coffee break* | 14:45-15:00 | *Coffee break* |  | |
|  |  |  | 15:00-17:00 | **E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, M. Cain,P. Di Carlo:** Classroom Exercises:  Airborne Data analysis | 19:00 | Departure from airport | 15:00-17:00 | **E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, M. Cain,P. Di Carlo:** Classroom Exercises:  Airborne Data analysis | 15:00-17:00 | **E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, M. Cain,P. Di Carlo:** Data analysis, discussion, preparation of student presentations |  | |
| Dinner College | 18:00 | Dinner College | | | 18:00 | Dinner College | | | 18:00 | 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.