

NERC-ARF Workshop 2018 Agenda

Day 1 (Tuesday 13th March)

09:30-10:00: Arrive and registration

10:00-10:15: Introduction to workshop (Dan Clewley, NERC-ARF-DAN)

10:15-10:45: Basics of remote sensing, including specific issues for airborne remote sensing. (Gary Llewellyn, NERC-ARF science coordinator).

10:45-11:20: What NERC-ARF is, including how it's funded and accessed and how data are collected (Gary Llewellyn, NERC-ARF science coordinator).

11:20-11:40: Break

11:40-12:30: Introduction to field spectroscopy, including role of FSF and requirements for field spectroscopy to support airborne campaigns (Chris MacLellan, NERC Field Spectroscopy Facility).

12:30-13:15: Lunch.

13:15-13:45: Introduction to NERC-ARF hyperspectral instruments/data (Mark Warren, NERC-ARF-DAN).

13:45-14:15: Introduction to hyperspectral instrument calibration and associated data issues (Aser Mata, NERC-ARF-DAN).

14:15-15:30: Introduction to APL and Hyperspectral data processing practical (Mark Warren, NERC-ARF-DAN).

15:30-15:45: Visit to BAS calibration room (group 1) / continuation of hyperspectral data processing practical (group 2)

15:45-16:00: Visit to BAS calibration room (group 2) / continuation of hyperspectral data processing practical (group 1)

16:00-16:15: Break

16:15-16:45: Atmospheric Correction (Dan Clewley, NERC-ARF-DAN)

16:45-17:20: Radiative Transfer practical using Py6S (Aser Mata, NERC-ARF-DAN)

17:20-17:30: Recap of day, plan for tomorrow

17:30: End

19:00: Evening meal.

Day 2 (Wednesday 14th March)

09:30-10:00: Introduction to thermal data and the SpecimOWL sensor (Aser Mata, NERC-ARF-DAN).

10:00-10:30: Introduction to airborne digital photography and the PhaseOne sensor (William Jay, NERC-ARF-DAN).

10:25-10:40: Batch processing using the Simple Concurrent Online Processing System (SCOPS) (Mark Warren, NERC-ARF-DAN).

10:40-11:00: Break

11:00-11:30: Introduction to LiDAR data (Dan Clewley, NERC-ARF-DAN)

11:30-12:00: Full waveform LiDAR (Mark Warren, NERC-ARF-DAN).

12:00-13:00: Lunch

13:00-14:00: Discrete LiDAR processing practical (Dan Clewley, NERC-ARF-DAN).

14:00-15:00: Full Waveform practical using DASOS and SPDLib (Dan Clewley, NERC-ARF-DAN).

15:00-15:15: Tools for further processing and analysis (Dan Clewley, NERC-ARF-DAN).

15:15-15:30: Q&A and workshop feedback.

15:30-15:45: Break

15:45-17:00: Continuation of practical sessions and opportunity to work with own data.

17:00: End