

Title	NCAVEO 2006 : Asphalt calibration site spectra
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Revision history	First release
Description of data set	Reflectance spectra collected from the asphalt car park at the Chilbolton Facility for Atmospheric and Radio Research (CFARR) on 17 th June 2006 as part of the NCAVEO 2006 Field Experiment.
Data files in the set	<p>1. An ENVI spectral library containing 19 representative spectra: OBTMo60617_subset3a.spc OBTMo60617_subset3a.hdr</p> <p>2. Example of one of the spectra: OBTMo60617_seq3aC40.png</p> <p>3. Photograph showing the dual field-of-view GER1500 being prepared for data collection. OBTE060616_GER1500.jpg</p>
PI of this data set	Dr Karen Anderson, University of Exeter
Terms of use (see NEODC website for the full version)	<p>The data may be used for all non-commercial research/project work undertaken by the NCAVEO network, in particular to learn about cal-val issues.</p> <p>If you wish to use the data set please contact the PI listed above. If you intend to publish a paper or give a presentation based on, or making significant use of these data, please consider including the PI(s) as co-author(s) at an early stage in the process.</p> <p>In all cases where the data are used in a presentation or publication, an acknowledgement must be given: for example, "<i>Data from the NCAVEO 2006 Field Campaign are provided courtesy of NCAVEO via the NERC Earth Observation Data Centre (NEODC).</i>"</p>

An area of asphalt, approximately 3m by 3m in size, within the CFARR perimeter was used as a persistent validation target and frequent reflectance measurements made. The centre British National Grid co-ordinates of this validation target, which can be distinguished in the CASI images, are (BNG Easting, BNG Northing) 439335.00, 138586.00, see Figure 1.

A trolley-mounted GER1500 dual field-of-view spectroradiometer was used to measure the HCRF of the asphalt validation target throughout the period of data acquisition on 17th June, see 'OBTE060616_GER1500.jpg'. The serial number of the Dual Field of View Ocean Optics instrument was D2J1951. Data collection was between 10:54 and 11:38 GMT.

References

Anderson, K., Milton, E. J. and Rollin, E. M., 2006. Calibration of dual-beam spectroradiometric data. *International Journal of Remote Sensing* **27**, 975-986

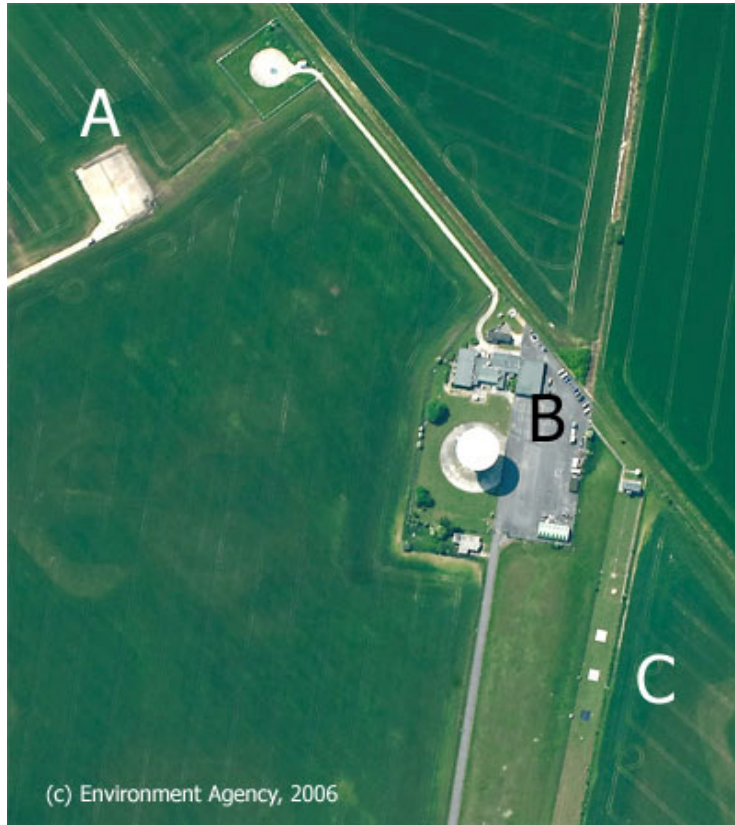


Figure 1. The CFARR site showing the concrete (A), asphalt (B) and artificial targets (C). The image is a subset from one of the CASI-3 flightlines © Environment Agency, 2006.