

<b>Title</b>	NCAVEO 2006 : Soil spectra
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<b>Date</b>	15 <sup>th</sup> August 2008
<b>Revision history</b>	First release
<b>Description of data set</b>	Reflectance spectra collected from bare soil on 18 <sup>th</sup> June 2006 as part of the NCAVEO 2006 Field Campaign.
<b>Data files in the set</b>	<p>1. Plot of spectra with 'noisy' wavelengths removed. BKsoil_20060618_plot.jpg</p> <p>2. An ENVI spectral library containing the spectra. BKsoil_20060618.spc BKsoil_20060618.hdr</p> <p>3. Log sheet of data collection BKSoilR_ASD_logsheet060618.pdf</p>
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<b>Terms of use</b> (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>

### Further information

Spectra measurements were collected for a patch of bare soil at the northern corner of Brockley field, to establish the typical soil background reflectance in this field. An ASD Fieldspec Pro Instrument (FR Unit No. 6408, NCAVEO Code N4406), owned by Newcastle University, was used with an 8° FOV foreoptic. All measurements were collected using a 1.5m extension probe from a height of ~1.35 metres above the ground, with the foreoptic positioned approximately 1.5m from the tramline, in a vertical plane unless stated otherwise. At each pair of coloured flags 11 sets of panel/target measurements were taken at approximately 1 metre intervals moving from left [01] to right [11] facing from the tramline towards the crop. 30 samples were averaged per data point.

Times recorded are UTC (GPS time).

### Reference

**MacArthur, A., MacLellan, C. and Malthus, T. J., 2006.** *What does a spectroradiometer see?* Proceedings of the Annual Conference of the Remote Sensing and Photogrammetry Society, Cambridge, UK, Remote Sensing and Photogrammetry Society, CD ROM.