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| Title | Description of reflectance spectra of winter oats collected from field Fairpiece on 18 th June as part of the NCAVEO 2006 Experiment. |
| Document created by | Elisa Anderson |
| Date | 1 st June 2007 |
| Revision history | First release |
| Purpose | To describe the pre-processing steps applied to the ASD FieldSpec Pro data prior to release. |
| Data files in the set | FP_060618_abs_10 FP_060618_abs_10.hdr FP_060618_abs_10.pdf FP_060618_abs_10.txt NCAVEO_FP_060618_abs_10.pdf |
| PI of this data set | Dr Meredith Williams, School of Civil Engineering and Geosciences, University of Newcastle. Meredith.Williams@newcastle.ac.uk |
| Research Assistant | Ted Milton, University of Southampton |
| 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> |

Note:

All raw spectra files collected during the NCAVEO campaign with ASD N4406 (labelled ***R_ASD0606**.***) have incorrect dates. The laptop computer used with the ASD had the month accidentally set to JULY instead of June. The DAY of month and TIME (UTC) are CORRECT in all cases. All other files (FSF spreadsheets and Excel/ENVI summary outputs) are marked with the correct 15-18th June 2006 dates.

Processing:

These data are from the blue flag within field Big Croft only.

The pdf log sheet 'NCAVEO_FP_060618_abs_10.pdf' describes the original data. The raw data were converted to absolute reflectance using calibration panel data provided by NERC FSF. The absolute reflectance data from the blue flag site were imported into ENVI v. 4.3 and saved as a spectral library

('FP_060618_abs_10'). This was also saved out from ENVI as a text file ('FP_060618_abs_10.txt'). The ENVI header file was edited to exclude noisy bands, resulting in spectra containing 1926 bands, covering the wavelengths 350-1354 nm, 1409-1811 nm, and 1952- 2496 nm. The associated pdf file 'FP_060618_abs_10.pdf' contains a plot of all 24 spectra with the noisy bands excluded. Note that all the bands are present in the ENVI spectral library.