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PROVE VEGETATION REFLECTANCE OF JORNADA EXPERIMENTAL RANGE, NEW MEXICO, 1997

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Summary:

Directional reflected radiation was measured over plots representing selected canopy components (shrubs and individual plants, bare sand, and background) at the Jornada Experiment Range site near Las Cruces, New Mexico, during the Prototype Validation Experiment (PROVE) in May 1997.

At each plot, directional reflected radiation was measured in the solar principal plane; directional reflected radiation in the plane perpendicular to the solar principle plane were measured next (by rotating the mast around the plot so that the pivoting point is 90 degrees from the initial pivoting location). View zenith angles of 60, 45, 30 and 15 degrees in the back and forward scatter directions of nadir were measured in each plane. Nadir-viewed reflected radiation was measured for each plane as well.

Further information about the measuring instruments and techniques can be found in the companion document (http://daac.ornl.gov/daacdata/prove/jornada/ground_based/canopy_brf/comp/unlbrf97.pdf).

Additional information and links to other PROVE 1997 sites can be found at <http://www.daac.ornl.gov/PROVE/prove.html>.

Data Citation:

Cite this data set as follows:

Privette, J. L., W. Qin, and E. A. Walter-Shea. 2003. PROVE Vegetation Reflectance of Jornada Experimental Range, New Mexico, 1997. ORNL DAAC, Oak Ridge, Tennessee, USA. <http://dx.doi.org/10.3334/ORNLDAAC/668>.

References:

Privette, J. L., G. P. Asner, J. Conel, K. F. Huemmrich, R. Olson, A. Rango, A. F. Rahman, K. Thome, and E. A. Walter-Shea. 2000. The EOS Prototype Validation Exercise (PROVE) at Jornada Overview and Lessons Learned. *Remote Sensing of the Environment* 74(1):1-12.

Havstad, K. M., W. P. Kustas, A. Rango, J. C. Ritchie, and T. J. Schugge. 2000. Jornada Experimental Range: A unique arid land location for experiments to validate satellite systems. *Remote Sensing of the Environment* 74(1):13-25.

Data Format:

Data are presented in a tabular, comma-delimited format. Row one gives the name of each column. Each of the remaining rows is one measurement at a designated view zenith angle. Reflectance values are reported by 5 nm wavelength increments from 400 to 900 nm.

The data records contain the following information:

Date,Local_time,GMT,Solar_zenith_angle,Solar_azimuth_angle, Site,Species, Plot,View_zenith_angles, Plane,WV_400.0,WV_405.0,WV_410.0,WV_415.0,,,,,,,,,,,,,WV_895.0,WV_900.0

Example Data Records:

23-May-1997,9.0058,15.0058,55.7293,85.9868, tower,mesquite,8,-60,parallel,3.23,3.41,3.69,3.98,,,,,,,,,,,,,55.5858,86.0721

23-May-1997,9.0172,15.0172,55.5858,86.0721, tower,mesquite,8,-45,parallel,3.1,3.25,3.49,3.74,,,,,,,,,,,,,32.79,32.07

More information about data collection and processing, data description, and known problems with the data can be found in the companion document, https://daac.ornl.gov/daacdata/prove/jornada/ground_based/canopy_brf/comp/unlbrf97.pdf .

Feedback

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