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Remote sensing is widely used for the monitoring of forests, and the VIS/NIR reflectance is commonly used for the identification and characterization of the vegetation. The reflectance data obtained at higher altitudes is a kind of average over a certain extension of area, and also the atmosphere that lies between the sensor and the object affects the data. Therefore, in the interpretation of remote sensing data, knowing the difference between data obtained at different scales and distances is important. In this research, we measured the spectra of trees at three different scales: 1) individual leaves, 2) part of a tree seen from a distance of 30 m, 3) mixture of several different trees seen from a helicopter, and investigated what affects the data during the scaling up of the measurements.

In July 2000, we measured the VIS/NIR spectra of trees around a parking lot at Kanazawa University, Kakuma Campus.



Photo1. Observation tree patch at Kakuma Campus.



Photo3 Measurement from a distance of 30m und.

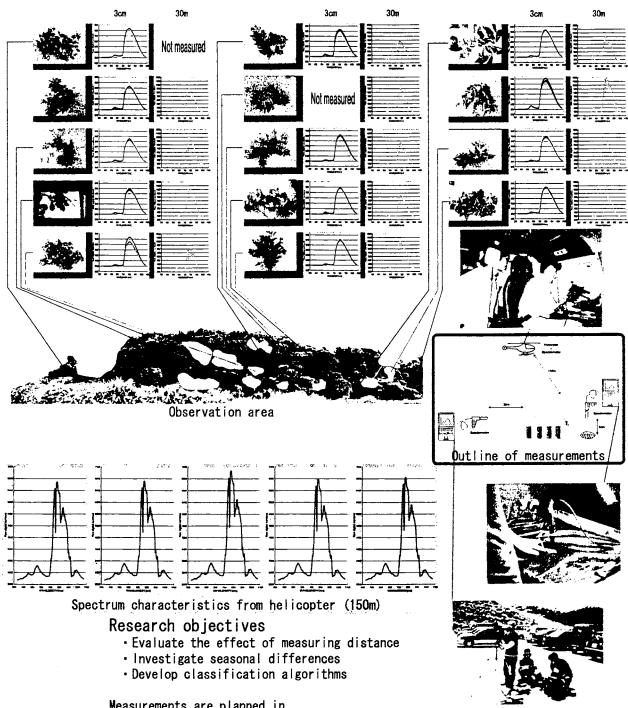


Photo2. Measurement from helicopter.



Photo4 Indoor reflectance measurement of individual leaves.

July 10, 2000



Measurements are planned in August, September and October 2000