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Cooperators:

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Objectives

[REDACTED]

1 monitor ambient environmental conditions (ozone concentration, temperature,

[REDACTED]

2 measure leaf area distribution (LAI), foliage distribution and PAR.

[REDACTED]

[REDACTED]

Methods:

In 1991, the tower was constructed, planning for this project was conducted, and supplies and equipment were ordered. All canopy measurements will commence

by May and extend through October. Ambient meteorological data will be collected from the tower and the canopy. The tower is located in the center of the canopy and is surrounded by a network of sensors. The canopy is a dense forest of deciduous trees. The tower is a 10m high structure with a platform at the top. The sensors are located at various heights within the canopy. The data will be used to study the relationship between canopy structure and micro-meteorological conditions.

Micro-meteorological wind data will be collected utilizing three dimensional

[REDACTED]

three heights. Typically these calculations require fast (< 1 s) gas data acquisition, but we anticipate being able to make meaningful calculations with

Phenology of leaf-out in spring and canopy structural changes through the

Significant Findings

At this time there is no significant data to report. Most of the data is still being processed and analyzed.

Future Plans

This research project will run for at least two years and may be expanded if pending grant proposals are funded. In addition, year-around basic forest

Funding Sources:

Current funding is provided by the National Science Foundation and the