

**Micrometeorological instrumentation and. installation**  
at ASRCT Sakaerat Experiment Station  
(Nakhonratchasima).

JOSEPH ZABRANSKY.

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**ABSTRACT**

This report deals with the micrometeorological instrumentation and data acquisition system. It contains descriptive information on the theory of operation and function of the constituent instruments as well as well as on the operation of the system s a whole, Information is given on data measuring levels at both clearing and forest towers, and some comments are also included concerning instrument installation and initial maintenance problems in the field.

The meteorological observations in TREND are divided into two data collection programmes. The primary programme involves a micrometeorological data acquisition system associated with two 46-metre, instrumented towers. One tower stands in a dry-evergreen forest having a canopy height of approximately 30 metres while the other tower is in a clearing 500 metres away. Simultaneous observations are directed towards determining vertical profiles of various climatic parameters beneath, through, and above the forest canopy using the clearing as a control. The data will be used to tie many of the other environmental disciplines together in trying to understand the complete ecology of the dry-evergreen forest. Attempts will be made to compare data from both towers for special correlation. The mesometeorological study will be discussed in a separate report.