



THE UNIVERSITY OF KANSAS SPACE TECHNOLOGY CENTER

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DESIGN DATA COLLECTION WITH
SKYLAB/EREP MICROWAVE INSTRUMENT S-193

Richard K. Moore and Fawwaz T. Ulaby
Co-Principal Investigators

Monthly Progress Report, April 1974

Remote Sensing Laboratory
Center for Research, Inc.
University of Kansas

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The University of Kansas Center for Research, Inc. reports the following work performed during the period 1 April 1974 to 30 April 1974.

1.0 CONTINUING STUDIES

1.1 (Task 2.1.1.2, 2.1.3.1, 2.1.3.2) Development of Catalogue for Radiometer Temperature Measurements Performed to Date.

Progress was made in compilation of this catalogue. A major problem with the collation of the data has been the ambiguity involved in the data presentation by various investigators. The effects of the antenna--main beam efficiency, radiation efficiency or depolarization effects have seldom, if ever, been incorporated. This makes comparisons between data from two investigators very hard to justify.

1.2 (Task 2.1.3.3) Study of Effects of Atmosphere Upon S-193 Rad/Scat Measurements.

Satisfactory progress was made in the compilation of this report. Attempts are being made to simplify the processing required to compute the attenuation or contribution by the atmosphere.

1.3 (Task 2.1.1.5) Ground Truth Collection

This is an on-going effort and is closely correlated with the data decommutation (of CCT's from NASA) and data analysis.

1.4 Data Decommutation and Analysis

The present data-base is being processed (carefully) for fulfillment of contractual obligations.