

## **General Disclaimer**

### **One or more of the Following Statements may affect this Document**

- This document has been reproduced from the best copy furnished by the organizational source. It is being released in the interest of making available as much information as possible.
- This document may contain data, which exceeds the sheet parameters. It was furnished in this condition by the organizational source and is the best copy available.
- This document may contain tone-on-tone or color graphs, charts and/or pictures, which have been reproduced in black and white.
- This document is paginated as submitted by the original source.
- Portions of this document are not fully legible due to the historical nature of some of the material. However, it is the best reproduction available from the original submission.



"Made available under NASA sponsorship  
in the interest of early and wide dis-  
semination of Earth Resources Survey  
Program information and  
for any use made therefrom."

E7.3-11078.  
CR-135547

FORMERLY WILLOW RUN LABORATORIES, THE UNIVERSITY OF MICHIGAN

P O BOX 618 • ANN ARBOR • MICHIGAN • 48107

PHONE (313) 483-0600  
101900-14-L  
28 September 1973

Developing Processing Techniques for Skylab Data  
Monthly Progress Report, August 1973

EREP Investigation 456 M  
NASA Contract NAS9-13280

Prepared by

Richard F. Nalepka - Principal Investigator  
William A. Malila - Co-Principal Investigator

NASA Technical Monitor

Mr. Timothy White/TF6  
National Aeronautics and Space Administration  
Johnson Space Center  
Principal Investigator Management Office  
Houston, Texas 77058

(E73-11078) DEVELOPING PROCESSING  
TECHNIQUES FOR SKYLAB DATA Monthly  
Progress Report, Aug. 1973 (Environmental  
Research Inst. of Michigan) 2 p \$3.00

N73-32253

CSCL 05B G3/13

Unclas  
01078



101900-14-L

Developing Processing Techniques for Skylab Data  
Monthly Progress Report, August 1973

The following report serves as the sixth monthly progress report for EREP Investigation 456M which is entitled "Developing Processing Techniques for Skylab Data". The financial report for this contract (NAS9-13280) is being submitted under separate cover.

The purpose of this investigation is to test information extraction techniques for SKYLAB S-192 data and compare with results obtained in applying these techniques to ERTS and aircraft scanner data.

During this report period a variety of data needed for this investigation were gathered. On the morning of 5 August the weather in the Test Site 703532 was judged to be sufficiently good to permit the collection of S-192 data. On the same morning, in support of this contract and two others, the ERIM aircraft gathered both multispectral scanner data and low altitude aerial photography over the intensive test area within the test site.

Throughout the morning of the 5th of August we participated with a team in the intensive test area gathering data to document the radiation conditions existing before, during, and after S-192 and ERIM aircraft data collection. The ground truth data which were gathered followed the plan described in the July 1973 Report No. 101900-10-L, entitled "Ground Truth Collection and Analysis Plan for SL-3 Mission".

In general, the atmospheric conditions on the morning of 5 August could be described as being hazy. Throughout the morning there was an apparent build-up of haze and at the time when the final aircraft pass was scheduled over the area there was a rapid forming of low altitude clouds. As a result of the haze and clouds, the aircraft flight plan was modified by the flight test conductor during the flight.

In addition to the data described above, supporting high altitude color infrared photos of the test site were gathered on 11 August by personnel from the NASA-Ames Research Center in their U-2 aircraft.

During the next month details concerning the modifications of the ERIM aircraft flight and their effect on subsequent processing will be determined and discussed. We also expect to receive the U-2 photography and evaluate it's utility.

Submitted by:

Richard F. Nalepka  
Principal Investigator

Approved by:

Richard R. Legault  
Director  
Infrared & Optics Division