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CR-136824

Investigation Title: Utilization of Skylab (EREP) System for  
Appraising Changes in Continental Migra-  
tory Bird Habitat.

EREP Investigation No. 486

Period Covered: February 1974

NASA Contract No. T-4114B

Principal Investigations Management Office:

Lyndon B. Johnson Space Center  
Houston, Texas 77058

Technical Monitor Name: Mr. Roger Hicks

Principal Investigator and sponsoring institution name:

Mr. Harvey K. Nelson, Director  
Northern Prairie Wildlife Research Center  
Bureau of Sport Fisheries and Wildlife  
Jamestown, North Dakota 58401

Type of Report: Monthly Progress

Overall Status:

The development of a software program for generating statistics on  
surface water conditions is now complete. The program has been  
documented and its operation has been tested using ERTS data.

Operations on this investigation largely remain in suspension until  
such time as computer compatible tapes are available. Now that all  
satellite data collection under the SKYLAB/EREP program has concluded  
it is appropriate to summarize site coverage and the adequacy of data  
collection.

Data collection occurred over Site 866323 on 12 June 1973. All  
sensors, excepting the S-190B, were operated. A review of screening  
data indicated adequate coverage with no overt problems with regard to  
instrument malfunction or atmospheric viewing conditions. Lack of the  
S-190B data, although regretful, is a condition not essential to a  
realization of the goals of this program. Data coverage over site  
866323 was not recurrent. This is our primary test site.

E74-10329) UTILIZATION OF SKYLAB (EREP)  
SYSTEM FOR APPRAISING CHANGES IN  
CONTINENTAL MIGRATORY BIRD HABITAT  
Monthly (Bureau of Sport Fisheries and  
Wildlife) 3 p HC \$4.00 CSCL 06C

W74-18005

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Supporting aircraft data is available for Site 866323 for 12 May 1973 and 12 August 1973 thus bracketing the collection of data by satellite and providing a measure of changes in surface water conditions between the waterfowl breeding and brooding seasons -- an important aspect of this program.

Satellite data from a secondary site -- Site 866428 -- is very limited. Data was collected on 12 June 1973 over the extreme southwest corner of the site and 19 September 1973 over the extreme northeast corner of the site. Because of the narrow swath width of the S-192 no overlapping coverage for these two dates is available. Machine processing of these data is not being considered at this time.

Recommendations for Action:

There are no recommendations beyond those made in previous reports.

Expected Accomplishments During the Next Period:

We will continue to await the receipt of S-192 computer compatible tapes. In the meantime we will commence the machine processing of supporting aircraft MSS data.

Significant Results:

None to report.

Summary Outlook:

The remaining processing and analysis to be performed constitutes the major effort of the program.

Travel Summary and Outlook:

No travel has been undertaken or is anticipated for the forthcoming period.

MONTHLY  
CONTRACTOR FINANCIAL MANAGEMENT REPORT

Contract Number: T-4114B

Contractor: Northern Prairie Wildlife Research Center  
P.O. Box 1747  
Jamestown, North Dakota 58401

Subcontractor: Environmental Research Institute of Michigan  
P.O. Box 618  
Ann Arbor, Michigan 48107

Total Estimated Cost: \$84,629.00

Task Description: Utilization of SKYLAB (EREP) System for Appraising  
Changes in Continental Migratory Bird Habitat  
(Investigation Number 486)

Prepared By: Harvey K. Nelson

DATE: March 1, 1974

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	MOST RECENT <sup>1/</sup> MONTH JAN 1974	CUMULATIVE TO DATE FEB 1, 1974	ESTIMATED TOTAL
<b>HOURS</b>			
Investigator	60	380	2090
Other	120	330	1770
Total	180	710	3860
<b>COSTS</b>			
Labor	5367.55	10,300.00	44,064
Material	97.72	200.00	1,143
Data Processing	600.00	800.00	5,809
Travel	--	--	5,128
Equipment Rental	--	--	--
Equipment Purchase	--	--	--
All Other	315.59	600.00	28,485
Total	6380.86	11,900.00	84,629

<sup>1/</sup> Inclusion of the most recent ERIM accounting information has caused irregular fluctuations in these hours and cost figures.