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

EREP Investigation No. 486 "Made available under NASA sponsorship in the interest of early and wide dissemination of Earth Resources Survey Program information and without liability for any use made thereof."

Period Covered: June 1975

NASA Contract No. T-4114B

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Principal Investigations Management Office:

Lyndon B. Johnson Space Center  
Houston, Texas 77058

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Principal Investigator and sponsoring institution name:

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Northern Prairie Wildlife Research Center  
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Jamestown, North Dakota 58401

Type of Report: Monthly Progress

Overall Status:

All S-192 single-channel data processing has been accomplished. Analyses of the processing results are nearly completed. Generation of a water recognition map for the S-192 data collected on 12 June 1973 will be accomplished pending the reactivation of the ink-jet printer/mini-computer system. This printer system is presently inoperative due to its relocation in ERIM's new laboratory facilities.

Processing of aircraft multispectral scanner data collected in support of this investigation has been completed. Pond/lake statistics and a land use classification map have been generated from aircraft scanner data. In addition, pond/lake statistics obtained from selected ERTS observations will be correlated with the 12 June S-192 data. ERTS data processing has been accomplished. Geographic locations of S-192, ERTS, and aircraft scanner collection sites analyzed in this investigation are indicated in the attached map.

The multispectral data processing phase of this investigation was suspended when we discovered the existence of random spatial mis-registration between S-192 spectral channels (line straightened data). It had been our intent to analyze multispectral data using the proportion

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(E75-10335) UTILIZATION OF SKYLAB (EREP) SYSTEM FOR APPRAISING CHANGES IN CONTINENTAL MIGRATORY BIRD HABITAT Monthly Progress Report, Jun. 1975 (Northern Prairie Wildlife Research Center)

estimation mapping technique for recognition of small scale water features and to identify certain vegetation features using the maximum likelihood classification method. Neither of these techniques will operate accurately if the data channels are not in spatial registration. Channel to channel misregistration has been due largely to the conversion from conic to linear scan format. In order to overcome this problem we requested conic scan data tapes and funding to accomplish the additional tasks associated with conic scan processing. Funds in the amount of \$9,295 have been approved by NASA but are not yet available to ERIM. The requested conic scan tapes have not been received to date.

**Recommendations for Action:**

None

**Expected Accomplishments During the Next Reporting Period:**

Preparation of the final report draft will continue.

**Significant Results:**

None to report.

**Summary Outlook:**

Our current plans are to conclude the study and prepare the final report based upon the processing completed to date. No effort is to be devoted to multispectral data processing unless the requested conic scan tapes and the associated funds are received in the near future.

**Travel Summary and Outlook:**

No travel was undertaken during this reporting period. Travel is not anticipated during the next reporting period.

