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QUARTERLY PROGRESS REPORT

New England Reservoir Management  
 EREP Investigation #089  
 Report for the Period  
 23 July 1974 - 23 October 1974

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Principal Investigations Management Office  
 Lyndon B. Johnson Space Center  
 Technical Monitor: Martin L. Miller

Principal Investigator: Mr. Saul Cooper  
 New England Division, Corps of Engineers  
 Waltham, Massachusetts 02154

Co-Investigator: Dr. Duwayne Anderson  
 U. S. Army Cold Regions Research  
 and Engineering Laboratory  
 Hanover, New Hampshire 03755

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Earth Resources Experiment Package (EREP)  
Progress Report #6 - 23 October 1974  
Investigation #089  
New England Reservoir Management

Principal Investigator:

Mr. Saul Cooper, New England Division  
Corps of Engineers, Waltham, Mass. 02154

Co-Investigator:

Dr. Duwayne Anderson, U. S. Army Cold  
Regions Research & Engineering Laboratory  
Hanover, New Hampshire 03755

A CRREL representative attended the Skylab EREP Principal Investigators Data Meeting in Houston, Texas in July 1974, where a comprehensive review and status of data processing for the EREP sensors were presented by Johnson Space Center personnel. They explained problems encountered in processing data and the effects of corrections on final data products, including those of the S190A, S190B and S192 sensors. In addition, a discipline team meeting was held to brief geology/hydrology investigators on progress of the various programs currently underway.

The final edited version of a special interim report entitled: "Land Use/Vegetation Mapping in Reservoir Management - Merrimack River Basin" was finished in this quarter. The required five copies were sent to our technical monitor, Mr. Martin Miller, and one forwarded to the NASA Scientific and Technical Information Facility for the public domain.

Image processing has been delayed this quarter because the S192 multispectral photographic film and computer compatible tape for the Merrimack River basin and the Boston, Massachusetts area were not received. Due to delivery delays of the Skylab data products, a request for a time and cost extension of the work contract is being sent to Mr. Phil R. Kimbrough,

Skylab Technical Support Procurement Branch. The milestone chart will be updated upon acceptance of the extension request.

Further work will include the continuation of land use/vegetation mapping in small urban watersheds on the Connecticut River utilizing Skylab S190A, S190B and RB-57 imagery. The information obtained from the Connecticut River study will be compared to the mapping accomplished in the Merrimack River basin. This data will then be related to basin runoff parameters as monitored at ground stations. Also, pending receipt of the S192 computer compatible tape, we plan to evaluate a computer data processing technique in cooperation with the Goddard Institute for Space Studies, New York City for the quantitative analysis of spectral radiance values for imagery obtained over the Merrimack River basin.

Milestones	1973												1974												1975	
	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F			
Preflight Simulation and Investigation Planning	—————																									
Alert Status for ERTS-1 - Skylab Ground Truth Acquisition			—————																							
Expected Receipt of Skylab Imagery									—————																	
Flood Plain Mapping													—————													
Vegetation/Land Use Mapping of Merrimack River Basin													—————													
Preparation of Final Report																						△				
Submission of Final Report to Contract Monitor																							△			
Distribution of Final Report																							△			

Remarks  
This chart has been updated to reflect Skylab mission status as of 23 October 1974