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CR-146522

EFFECTS OF CONSTRUCTION AND STAGED FILLING
OF RESERVOIR ON THE ENVIRONMENT AND ECOLOGY

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Date: 29 March 1976
Type II Progress Report for Period
1 January 1976 - 31 March 1976

Prepared for:

Goddard Space Flight Center (GSFC)
Greenbelt, Maryland 20771

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TYPE II PROGRESS REPORT
For the Period 1 January 1976 - 31 March 1976

TITLE: Effects of Construction and Staged Filling of Reservoirs on the Environment and Ecology, Investigation Number 23500

PRINCIPAL INVESTIGATOR: Dr. Ravinder K. Jain
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GSFC IF NUMBER: 350

A PROBLEMS: The aircraft data for January 1976 was not obtained due to cloud cover. Next possible coverage will be in May 1976. This will not have a significant adverse effect on the project.

B ACCOMPLISHMENTS: The five scenes shown in Table 1 have been selected for use in interpretation of pre-project conditions. Two scenes have been processed and one scene has undergone tonal classification for forest type distribution.

<u>Date</u>	<u>Scene ID</u>
22 Nov 73	16194
5 Aug 75	16103
22 Aug 75	16041
14 Jan 76	16081
6 Feb 76	16105

Table 1 Scenes Selected for Pre-Project Analysis

Effective comparison of interpreted information with ground truth will require a cell-by-cell comparison of data displayed in the SYMAP format. The program format used previously allowed for comparison of area statistics. An additional program capability has been written to allow for cell-by-cell comparison. Testing of this program feature will begin soon.

A strip mosaic has been prepared for the project area using U-2, RC-10 color IR imagery. It will serve as a basis for display of interpreted results using this scale imagery.

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The first processed and interpreted scene does not appear to reflect distinctions in forest type very well, although a cell-by-cell comparison is needed for a final determination. To attempt to achieve a processed image which better distinguished between forest types, the second scene to be processed was subjected to wider range of band/filer and band/diazo combinations. Hopefully, a combination will be found for which tonal variations can be used to distinguish forest types. If not, then conventional interpretations will be used with more reliance on aircraft imagery for analysis of this feature.

C SIGNIFICANT RESULTS: None.

D PUBLICATIONS: None.

E RECOMMENDATIONS: None

F FUNDS EXPENDED: \$6,000.

G DATA USE:

Value of data allowed: \$2,004.00.

Value of data ordered: 672.00.

Value of data received: 672.00.

H AIRCRAFT DATA: Two sets have been received for this project. The first was flown on 26 February 1975 and the second was flown on 17 April 1975.

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