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TYPE I PROGRESS REPORT

September 16, 1973 - November 15, 1973

Utilizing ERTS-1 Imagery for Tectonic Analysis Through Study of The Bighorn  
Mountains Region. MMC #256  
ERTS Contract #NAS5-21852

Principal Investigator - Richard A. Hoppin UN 633

During this period the analyses by the seven staff and student investigators  
described in the last report are continuing.

All data products ordered in the past have now been delivered. The imagery  
flown by the aircraft from Colorado State University is of excellent quality.  
The I<sup>2</sup>S multispectral imagery is being examined in the I<sup>2</sup>S Addcol viewer. The  
9X9 color-infrared transparencies (flight altitude 27,000 feet) are being  
examined in detail by one student in his comparison of ERTS linears in the southern  
Bighorns with the same areas on lower altitude imagery and with fracture trends  
measured on the ground.

One thesis which used ERTS as an assist in a structural field mapping project  
has been completed. Two others more directly involving ERTS investigation are  
scheduled for completion in January, 1974 and one by May, 1974. Their results  
will be included in the final report of April 28, 1974.

No further significant results are being presented at this time.

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