

SEVENTH BI-MONTHLY PROGRESS REPORT
UNIVERSITY OF ALASKA
ERTS PROJECT 110-12
OCTOBER 8, 1973

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A. TITLE OF INVESTIGATION:

Evaluation of feasibility of mapping seismically active faults in
Alaska.

B. PRINCIPAL INVESTIGATOR: /GSFC ID:

Larry Gedney/GSFC ID: UN601

C. PROBLEMS IMPEDING INVESTIGATION:

None.

D. PROGRESS REPORT:

1. Accomplishments during reporting period:

Inspection of the imagery of the study area is now complete, and
the program has entered its final phase of data consolidation and
report preparation.

On August 15th, a presentation was made to the joint U.S.-Japan
Committee on Earthquake Prediction and Control in Boulder, Colo-
rado. ERTS images showing relationships between various tec-
tonic features of Alaska were shown, and their significance in
terms of earthquake occurrence discussed.

2. PLANS FOR NEXT REPORTING PERIOD:

The remaining time under this project will be largely spent in
arranging the results for publication, and for the final report.

The principal investigator will appear before an evaluating board
at NASA/GSFC in October to discuss the project.

E. SIGNIFICANT RESULTS:

None.

F. PUBLICATIONS:

a) In press:

Gedney, Larry and James VanWormer, Tectonic mapping in Alaska with
ERTS-1 imagery, Photo Interpretation.

N74-11166
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00045
CSCL 08C 63/13
(E74-10045) EVALUATION OF FEASIBILITY OF
MAPPING SEISMICALLY ACTIVE FAULTS IN
ALASKA Bimonthly Progress Report (Alaska
Univ., Fairbanks.) 2 p HC \$3.00

b) Published:

Gedney, Larry, "Finding faults" with ERTS-1 imagery, The Northern Engineer, vol. 5, no. 1, pp. 3-5, Spring, 1973.

VanWormer, J., L. Gedney, J. Davies, and L. Shapiro, Central Alaska seismicity, 1972, Program with Abstracts, 68th Annual National Meeting of the Seismological Society of America, p. 49, 19 May, 1973.

Gedney, Larry and James VanWormer, Some aspects of regional tectonics in Alaska as seen in ERTS-1 imagery, Symposium on Significant Results obtained from ERTS-1, Abstracts, Paper G-23, March, 1973.

Gedney, Larry and James VanWormer, Tectonic mapping in Alaska with ERTS-1 imagery, interim scientific report, NASA Contract NAS5-21833, 25 May, 1973.

VanWormer, D., J. Davies, and L. Gedney, Central Alaska earthquakes during 1972, Scientific Report UAG R-224, Geophysical Institute, University of Alaska, August 1973.

Gedney, Larry and James VanWormer, Some Aspects of active tectonism in Alaska as seen on ERTS-1 imagery, Symposium on Significant Results obtained from the Earth Resources Technology Satellite-1, Vol. 1: Technical Presentations, Section A, pp. 451-457, March, 1973.

Gedney, Larry and James VanWormer, Earthquake probabilities in selected areas of Alaska based on b-slope monitoring. Proceedings, U.S.-Japan Conference on Earthquake Prediction and control, August 13-15, 1973, Boulder, Colorado.

G. RECOMMENDATIONS:

None.

H. REVISED STANDING ORDER FORMS:

None.

I. IMAGE DESCRIPTOR FORMS:

None.

J. DATA REQUEST:

None.