INVESTIGATION OF PROTOTYPE VOLCANO-SURVEILLANCE NETWORK

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ERTS-A

a. Title: Investigation of prototype volcano-surveillance network

ERTS-A Proposal No.: 145

b. GSFC Id No. of P.I.: IN 384

c. Problems: Principal problem is that the programmer cards of the DCP's are unreliable. Over 50% provided have failed at one time or another. Presently 6 out of 28 are defective, and two show subtle problems, which we are trying to isolate. We are waiting for replacements. Transmitters are not available to put at these sites already installed. Three more sites would be installed if reliable transmitters were available. The programmer cards are the only part of this study that are performing well below the expected reliability.

d. Accomplishments: All equipment has been installed except for problems noted in c. A computer analysis program has been developed and is in use to analyze the data on teletype punched tape and computer cards. Stations in Alaska and the Cascades were overhauled in July and August.

e. Significant results: The equipment continues to work quite reliably and earthquakes are being recorded at all sites.

f. Papers or reports: Major paper in preparation.

g. Recommendations: None

h. Changes in Standing order forms: None
i. ERTS Image description forms: None

j. Changes in data request forms: None

k. Status of DCP's:

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Test in Menlo for suspected defect.