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INVESTIGATION OF PROTOTYPE VOLCANO-SURVEILLANCE NETWORK

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Type I Progress Report for Period 1 July 1973 to 31 August 1973

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Type I Progress Report

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:

<u>DCP Serial No.</u>	<u>State</u>	<u>County</u>	<u>Town</u>	<u>Latitude</u>	<u>Longitude</u>
6005	Washington	Stamania	Mt. St. Helens	47.75N	122.40W
6011			Test in Menlo for suspected defect.		
6034	Washington	Watcom	Mt. Baker	48.78N	121.90W
6036	Nicaragua		Volcán Cerro Negro	12.52N	86.70W
6043	Washington	Pierce	Mt. Rainier	46.94N	121.67W
6057	California	Shasta	Mt. Lassen	40.48N	121.51W
6066			Defective		
6103	Guatemala		Volcán Pacaya	14.40N	90.56W
6117	Hawaii		Kilauea, HVO	19.42N	155.29W
6132	Guatemala		Buena Vista	14.67N	90.64W
6154			Test in Menlo for suspected defect.		
6162	Guatemala		Volcan Santiaguito	14.77N	91.56W
6163	California	Shasta	Mt. Lassen	40.48N	121.51W
6176	Nicaragua		Mina Limon	12.78N	86.74W
6213	Nicaragua		Volcán Telica	12.60N	86.86W
6240			Defective		
6247	Guatemala,	Defective	Volcán Agua	14.44N	90.70W
6262			Defective		
6274	Nicaragua		Volcán San Cristobal	12.68N	87.28W
6276	Guatemala		Volcán Pacaya	14.38N	90.62W
6311	El Salvador		Volcán Izalco	13.81N	89.63W
6315	Iceland		Valahnukar	64.02N	21.85W
6320	Guatemala		Volcán Fuego	14.44N	90.84W
6334			Defective		
6342	Alaska		Mt. Iliamna	60.18N	152.82W
6365	Alaska		Augustine Island	59.37N	153.35W
6370	Hawaii		Kilauea, North Pit	19.42N	155.27W
6372			Defective		