

89026

POST CRUISE REPORT  
MARINE SEISMIC OPERATIONS

December 6, 1989

**VESSEL:** R/V NEECHO

**OPERATING AREA:** Vineyard Sound

**PERSONNEL:** Ken Parolski USGS  
Dave Nichols USGS  
Dave Mason USGS (Boat Operator)  
Nancy Soderberg USGS  
Earl Young WHOI  
Barry Irwin USGS (Navigator)

**PURPOSE OF CRUISE:** Comparison tests of various sub bottom profiling equipment. Test and evaluation of Klein analog and digital side scan systems.

Neecho was originally mobilized to support a joint USGS/WHOI OBS program which was postponed after the boat was in the water. This delay afforded a good opportunity for MSO to test and evaluate seismic instrumentation. A test line was selected based on some lines run off the Elizabeth Islands during August 1979. GEOPULSE, UNIBOOM and HUNTEC sound sources were run at various power settings during the cruise. The signal was routed through four different signal processors and displayed on EPC recorders. Different amplifier and filter settings were used. The Klein digital sonar was tested and six analog side scan lines off Lackey's Bay were run for WHOI. A shallow water profiling sled built by MSO was also field tested during the cruise.

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