

CRUISE REPORT
NEECHO

R. Bailey
Received 11/21/84
Coded into Admin 11/21

84023

Area of Operations: Buzzards Bay

Cruise Date: 8 November, 1984

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Cruise Objectives: Shallow water, high resolution reflection and refraction seismology utilizing an explosive sound source, 3 axis geophone and single hydrophone sensors, and a sonobouy telemetry system. Additionally a U.S.G.S. ocean bottom seismograph was deployed.

Equipment used:

Northstar Loran-C Receiver : for location of seismic line.
Delnorte Navigation System : for x,y positions of each shot.
Telseis Sonobouy Receiver : for reception of 3 axis geophone
and hydrophone data.
Texas Instruments DFS V : for digital recording of seismic data.
Bolt Air Gun : primary acoustic sound source.
ORE Geopulse Seismic System : preliminary reconnaissance of the proposed
seismic line.

Comments: All equipment worked well. There seems to be a electronic coupling problem between the geophone system and the sonobouy transmitters. This problem will be addressed this winter and the experiment will be attempted again in the spring of 1985.