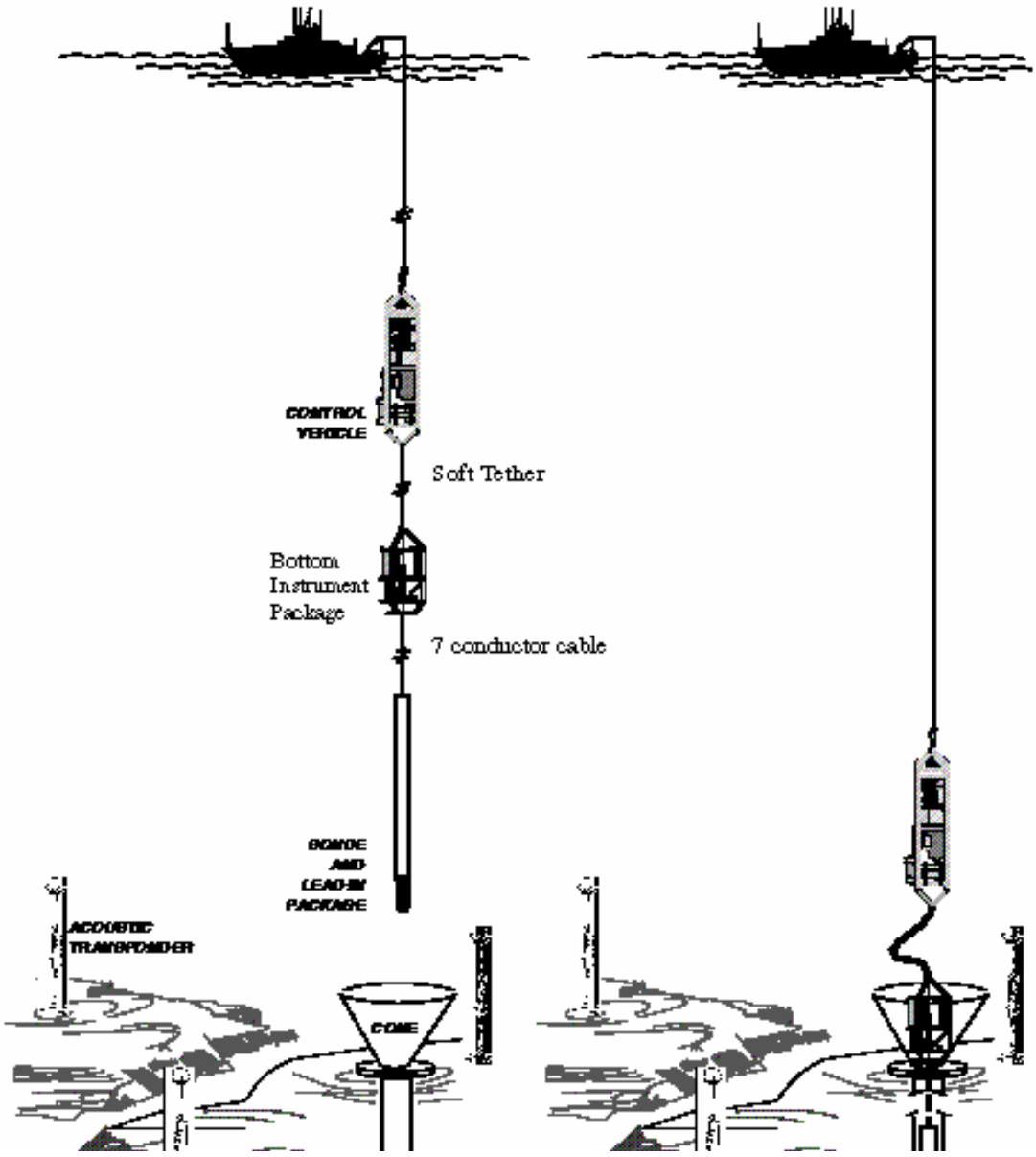
# Appendix VIII

## MPL Report

DEEP TOW GROUP
SEAGOING OPERATIONS 1997-1998

- SIDESCAN SURVEY AND BOTTOM PHOTOGRAPHY OF CORTES-TANNER BANKS (June 1997)
- SINKEX SEDIMENT SAMPLING AROUND A SHIP WRECK (August 1997)
- OSN-1 INSTRUMENTATION DEPLOYMENT (January - February 1998)
- NEAR-BOTTOM MAGNETICS AND SIDESCAN SURVEYS (April - May 1998)
- OSN-1 INSTRUMENT RECOVERY AND DOWN HOLE LOGGING (June 1998)
- DEEP TOWED GRAVITY METER (May 1998)



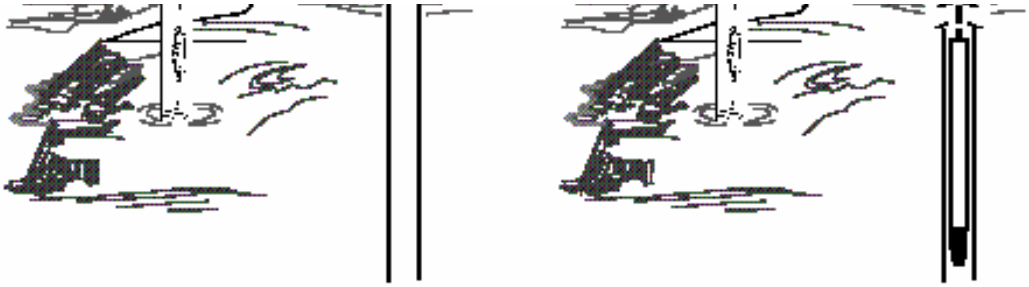


*Figure 1-3: This schematic diagram shows the configuration of equipment used in a wireline deployed borehole seismic system (left). On B3S2 the borehole package is a single sonde consisting of the lead-in package, with a navigation transponder, lights and camera for re-entry, as well as the three component broadband seismometer. Telemetry, control, data acquisition and data recording electronics and batteries are housed on the Bottom Instrument Package (BIP). The Control Vehicle (or thruster) is used to maneuver the sonde into the borehole. One advantage of this system over other ocean bottom seismometers is that the the ship remains tethered to the seafloor system after deployment and data can be acquired on board ship prior to releasing the tether (right). After release of the tether the acquisition system on the BIP records continuous seismic data for over three months.*

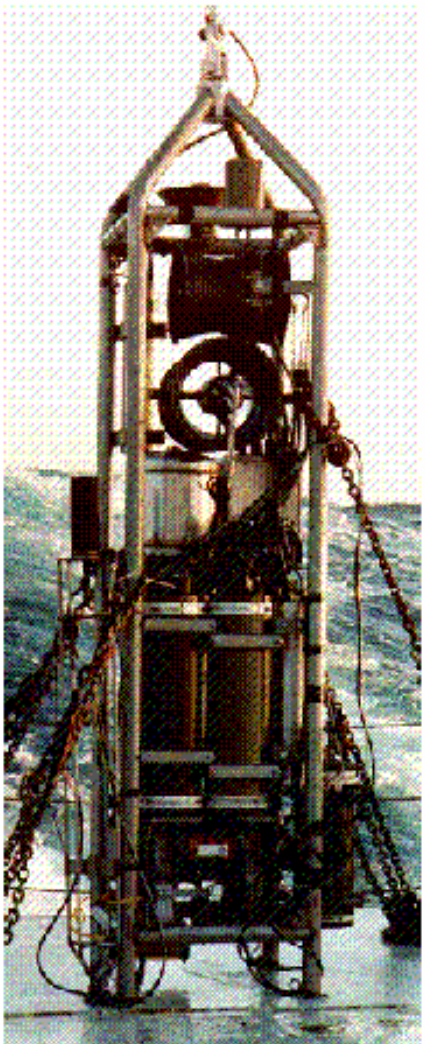


*Plate 4a: The Control Vehicle (CV) contains thrusters, up and downlooking sonar, a navigation transponder, and telemetry electronics.*

*Plate 4b: The logging probe contains a camera, lights, navigation transponder, two calipers, and pressure and temperature transducers.*

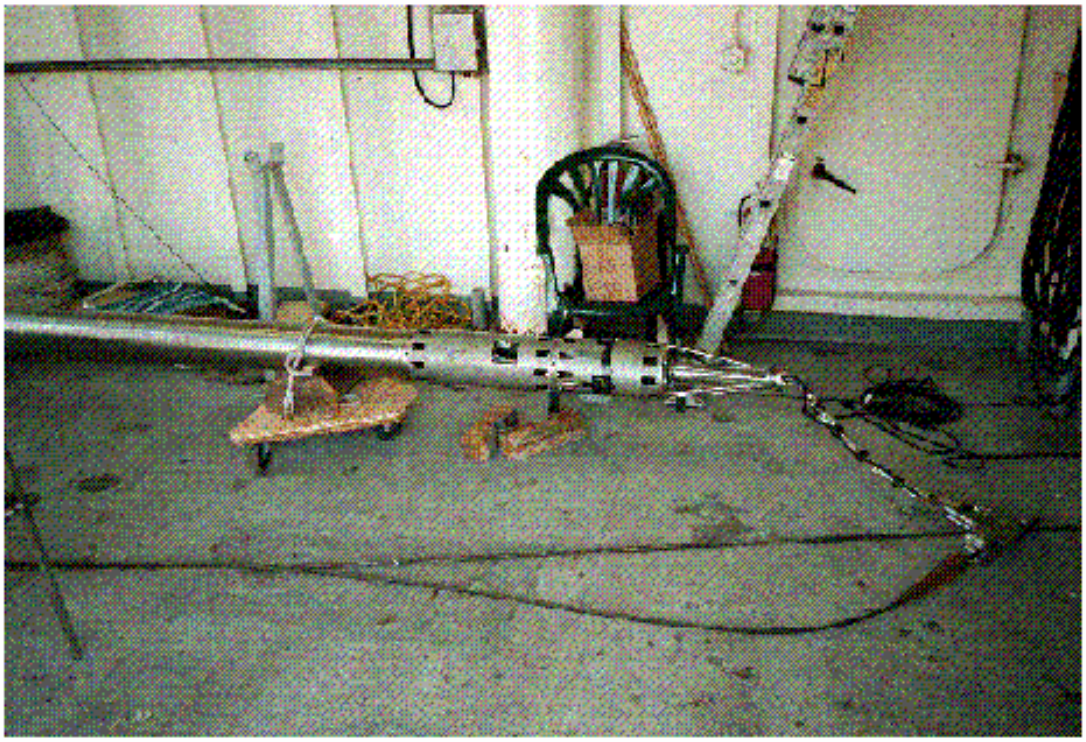


*Plate 2a: Above (to the right) of the upper hole lock of the borehole seismometer is a cable slackening device to minimize vibrations in the logging cable from affecting the seismometer.*

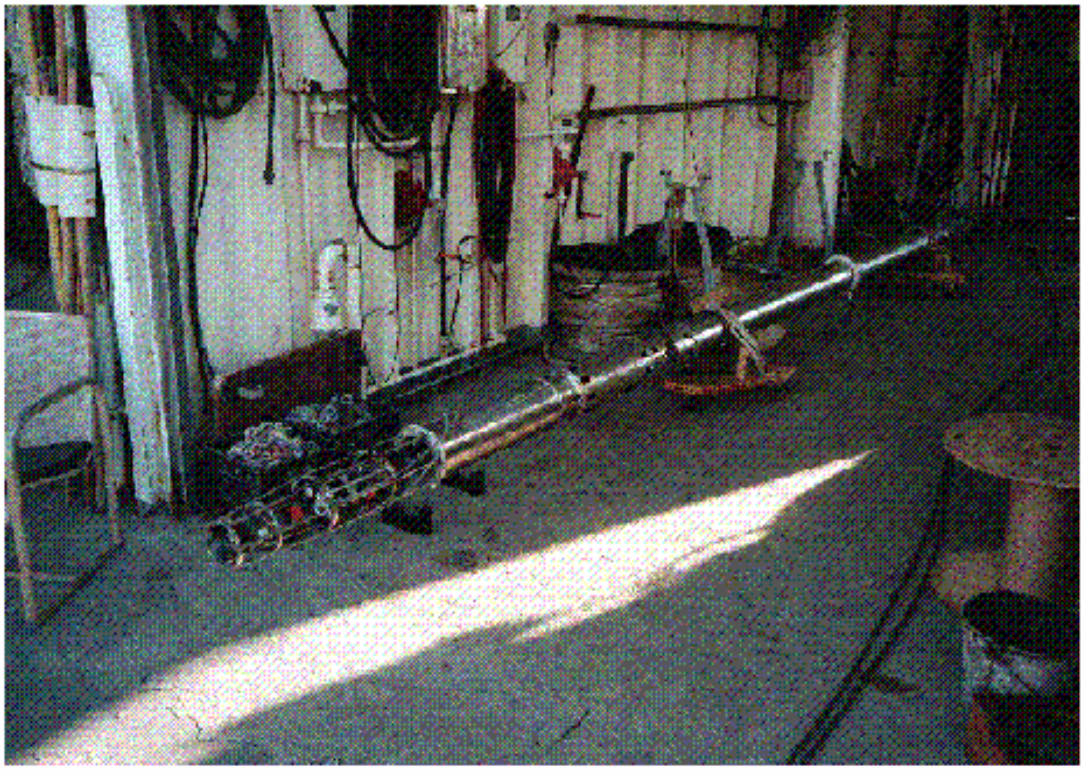
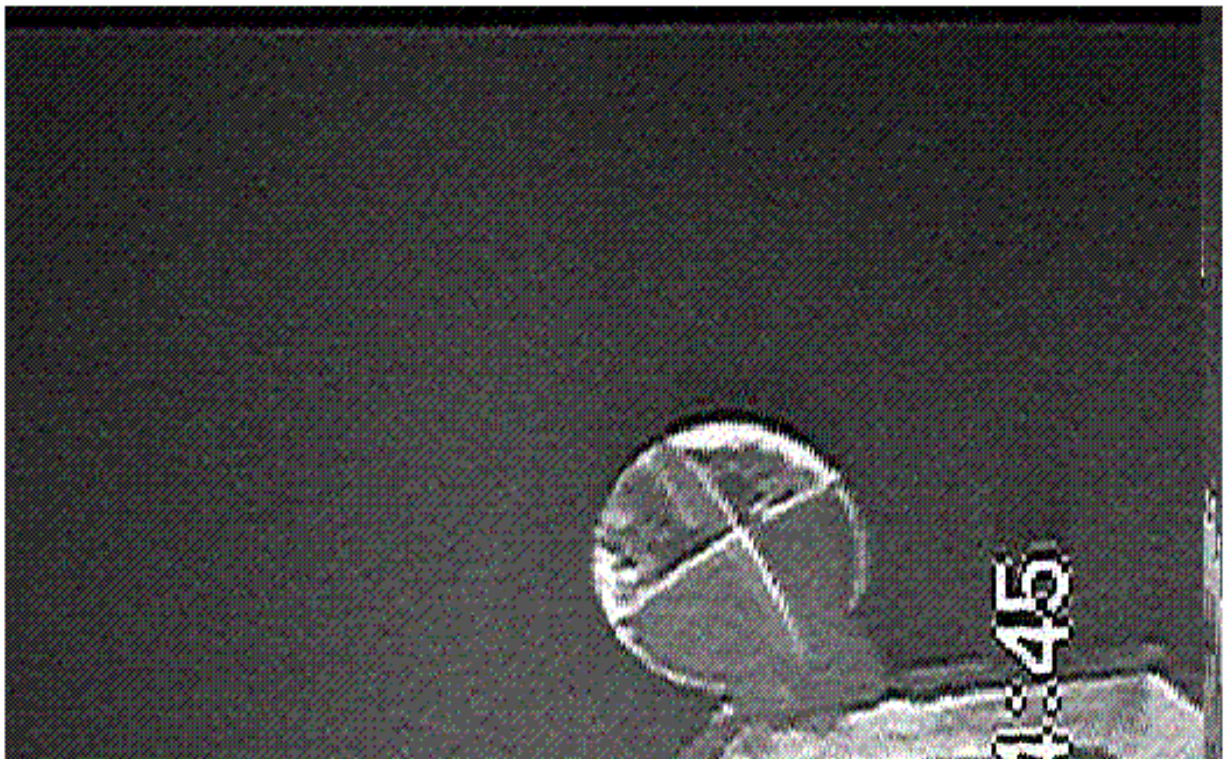


*Plate 2b: The lead-in package (LIP) is attached below the lower hole-lock of the borehole seismometer.*



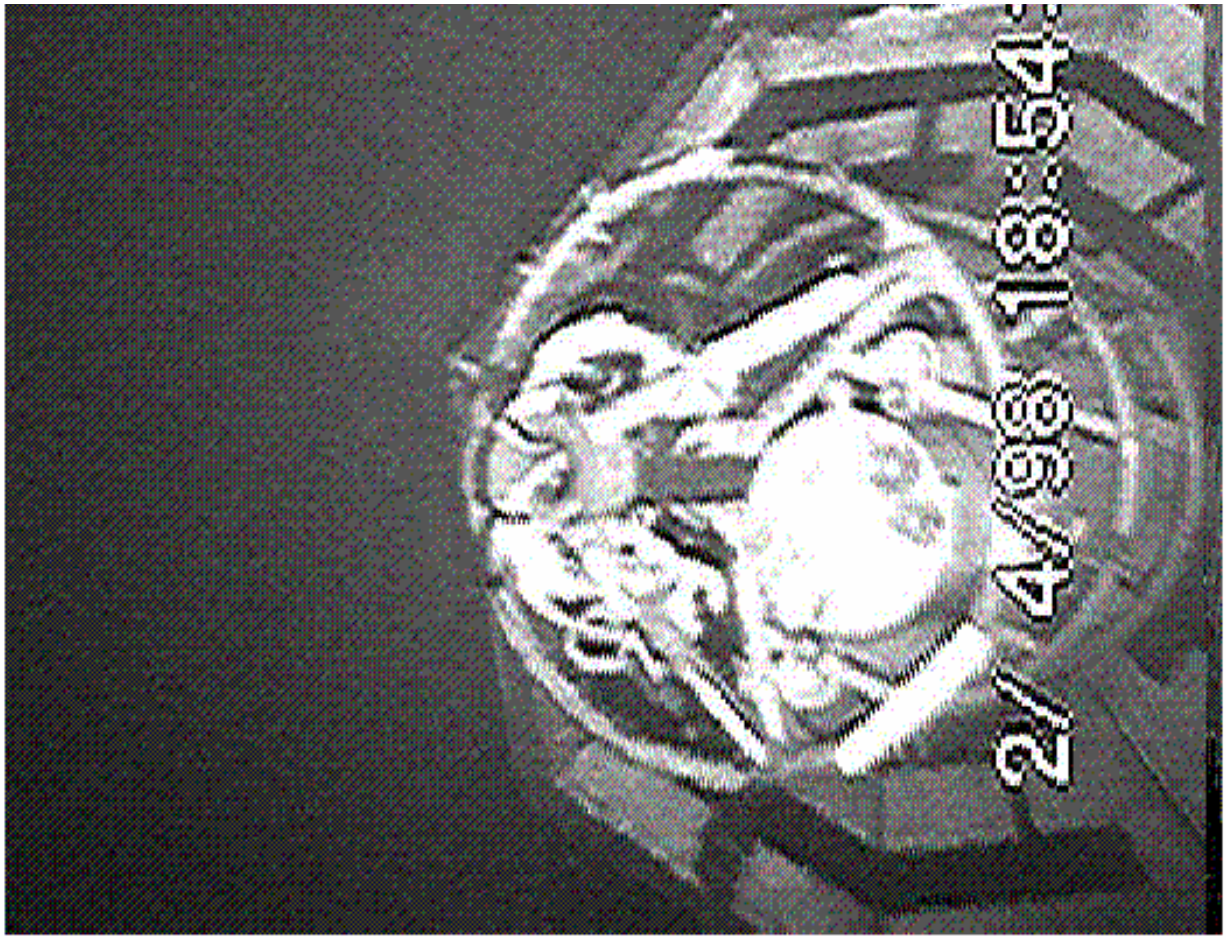


*Plate 13: The SEABASS-II Bottom Instrument Package is shown in the re-entry cone at Hole 843B prior to leaving the site for the four month autonomous recording period.*