OHP Network Seafloor Borehole Observatory - Japan Trench

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In order to provide quantitative constraints to understanding the seismogenesis and plate motion/deformation at subduction zones, the first and second seafloor borehole stations of Ocean Hemisphere Project will be installed during the Ocean Drilling Program Leg 186 (June-Aug. 1999). A prototype system was successfully installed on land in Aug 98. Borehole sites are located about 1 km below the seafloor at seismically active (39-deg 11-min N) and aseismic (38-deg 40-min) along 143-deg 20-min E longitude. Two broadband seismometers, a 3-component (volumetric) strainmeter, and a tiltmeter will be installed. About a year-long continuous data are to be stored on the seafloor using about >10 W power.