

OHP Network Seafloor Borehole Observatory - Northwestern Pacific Basin

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The second seafloor borehole station of Ocean Hemisphere Project will be install during Ocean Drilling Program Leg 191 (July - September, 2000) in the Northwestern Pacific Basin as a part of the seismic network in the western Pacific. The first station was successfully installed in Japan Trench off Sanriku. The second station is located at depth of about 5500m on the old oceanic plate. Two CMG-1T broadband seismometers will be embedded with cement in basement rocks at depth of 600m from seafloor. Analog signals from the seismometers are converted to digital form at bottom of the hole, and recorded by data recording unit via data control unit on seafloor. Seawater batteries can supply power to the system for five years. Data recording unit will be recovered by ROV.