

Long-term borehole observatories in the ODP holes: Contribution to global seismic network

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Broad band seismometer in the drilled holes was first deployed in the Japan Sea (ODP Leg 127). Japan, US, and France research groups have deployed the borehole seismometer in the Atlantic Ocean, off Hawaii, and Ninety East Ridge in the 90's. The observations suggest that deployment in borehole is the best situation for the broad band seismic observatory. In 1999-2000, borehole observatories will be constructed in off Northeast Japan and Eastern Pacific by Japanese proposals. In the future, global seismic network (20 stations at 2000 km span) will be constructed for international use.