

## Longterm borehole seismo-geodetic observation in seismogenic zone

# Eiichiro Araki[1], OD21 SAC Downhole Measurement/Monitoring Working Group Shinohara Masanao

[1] JAMSTEC

Operation of deep ocean drilling vessel in near future may enable us to reach the seismogenic plate boundary of the Philippine Sea plate in the Nankai Trough. Geophysical property of seismogenic zone and its dynamics can be directly observed by long term monitoring in such deep boreholes. Example plan of a borehole observation system is proposed that employs arrays of sensors such as seismometer, tiltmeter, strainmeter and pressure gauge. Accompanying problems in establishing such an observation system is discussed as well.