

## Borehole observatory and experiment by research vessel commonly used for ocean and geo science

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ODP and DSDP Boreholes are not merely the remains after recovered core, but should be effectively utilized as the scientific legacy holes. Considering the tight ship schedule of the scientific drilling vessel and its own original purpose of drilling/core sampling, it is obviously one of the best options to apply the ocean research vessel, which is commonly used for oceanography, geology, geophysics survey, and so on, to the borehole observatory operations. Fly-in reentry system, developed by MPL/SIO, can pay out the borehole tools from on-board by using the popular double armored coaxial cable to introduce it into the borehole, where it can achieve 1)the real time measurement for the short duration, 2)the instruments deployment/recovery for the long term observatory.