

Technology developments for the IODP sciences

Saneatsu Saito[1]; Junichiro Ishibashi[2]; Osam Sano[3]; Hisao Ito[1]

[1] JAMSTEC; [2] Earth & Planet. Sci., Kyushu Univ.; [3] ERI

The domestic INVEST (IODP New Ventures in Exploring Scientific Targets) committee discussed on the required technology development for the IODP phase II. Three major technological categories were identified: (1) Ultra deep drilling in deep water, (2) Core quantity and quality, and (3) Advanced geophysical/geochemical/biological observatories. IODP Engineering Develop Panel and Scientific Technology Panel are also developing Technology Roadmap and Scientific Technology Roadmap, respectively. STP recognized four items as highest priority with EDP link: (1) Deep hole penetration technologies, (2) Enhanced core recovery, (3) Coring without disturbance, and (4) Large diameter drill pipe. In this paper we introduce required technology development based on scientific demands.