

Dynamic Positioning System for Deep Ocean Drill Ship “CHIKYU”

Authors:

Koh Murata, Satoru Nagase, Hiroomi Ozawa – *Mitsui Engineering and Shipbuilding Co., Ltd (Japan)*

Kazuyuki Igarashi – *Akishima Laboratories (Mitsui Zosen), Inc. (Japan)*

Kazuyasu Wada – *Japan Agency for Marine-Earth Science and Technology (Japan)*

Abstract

It is required for the drilling vessel to keep her position and heading with high accuracy under the external disturbances. If the vessel moves widely during the drilling operation, it will give rise to damage of riser pipe or drilling pipe and so on, and become impossible to continue the drilling operation. For the drilling vessel working in deep water area, DPS using thrusters, propellers etc., is used instead of a jackup rig or mooring system with anchor.

CHIKYU has to keep her position and heading over the long term for scientific drilling operations. To control her motions, DPS has been developed and installed in the vessel.

The characteristics of this DPS are discussed in the paper.

Click below to:

[Review the complete paper](#)

[Review the presentation](#)

[Return to the Session Directory](#)