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Development of Disk Type Underwater Glider for Virtual Mooring -Part 1, Study on Control System and Development of Testbed Vehicle-

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Summary: In recent years, predictions of changes in the environment on earth and studies on ecocodevelopment have become important. For this research on going ocean data in time and space is required, and has been obtainable using by mooring systems. However, a conventional mooring system can observe only discrete data in perpendicular space and moreover, construction of such a system requires a manpower and great expense. To solve this problem, an underwater vehicle for virtual mooring is developing at Research Institute for Applied Mechanics (RIAM). This paper describes the testbed vehicle "LUNA" that was designed to develop a virtual mooring system, and the control algorithm is discussed.

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