

## Application of Novel technologies developed in the CREST program for the preservation and regeneration of marine biodiversity to the Fisheries fields

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The CREST Program of “Establishment of core technology for the preservation and regeneration of marine biodiversity and ecosystems (Research supervisor: Isao Koike (Professor Emeritus, The University of Tokyo)) was launched in 2011. In the total, 16 projects were adopted, and many novel technologies for observation and monitoring and prediction models have been developed for the better understanding of biodiversity and ecosystems. On the other hand, some of them are expected to become powerful tools for sustainable use for fisheries resources. Decline of various fisheries resources is one of the major problems for the fisheries industries. As increasing in the demand of fisheries products in the world, even the small pelagic fish resources such as saury mackerel and Pacific common squids off the Pacific coast of the North east Japan have been incorporated in the framework of international fisheries management based on the scientific basis. As a result, importance of monitoring to examine where and how the fisheries resources as well as other marine livings are distributed has been increased. This presentation will show the prospects and expectation for applying the technologies developed in this program to the fisheries fields.

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