

Prediction of Marine Environment for Coastal Area Management

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For the management of coastal and ocean area scientifically, the marine environmental information needs to be produced along the coast of a regional seas by means of coastal and ocean prediction models. Each coastal project of the coastal countries needs the incident information coming into their coastal area generated from the offshore, which should be prepared by ocean models covering the whole regional seas. Detailed information for the local areas of interest needed in solving various coastal problems can be obtained by means of combination of regional scale and local coastal models. An efficient way of providing coastal and ocean environmental information is to establish a well designed coastal and ocean monitoring and prediction system in regional scale with cooperation among the neighboring countries.

In this presentation, many problems in the coastal waters commonly occur in this region would be shown and the way of producing the information of marine and coastal environment needed to solve the problems would be discussed. Example of the a coastal information system along the coast of Korea established by the Coastal and Harbor Engineering Research Center of the Korea Ocean Research and Development Institute (KORDI) would be introduced and the regional cooperation for the coastal monitoring system would be discussed.