The Ministry of Environment, Japan has begun the new research project “Development of Coastal Management Method to Realize the Sustainable Coastal Sea” (2014-2018, PI: T.Yanagi) in 2014. This project aims to propose the suitable ICM (Integrated Coastal Management) for realizing the sustainable coastal community. Three research fields (Seto Inland Sea as semi-enclosed coastal sea, Sanriku coastal seas for open character coastal sea and Japan Sea’s coastal sea where the international management is necessary) are selected to clarify their natural characteristics from the viewpoint of physical, chemical and biological oceanography. Social and human scientists are also included to this trans-disciplinary project in order to clarify the economic and cultural aspects of the sustainable coastal community. We will develop the integrated numerical model which is useful for the policy decision in the coastal areas.