



South China Sea and Adjacent Seas Oceanographic Data Center

Chao Xu and Sha Li

South China Sea Institute of Oceanology, Chinese Academy of Sciences, China (xc@scsio.ac.cn)

South China Sea and Adjacent Seas Oceanographic Data Center (SCSODC) improves the capabilities of data resources processing, integration, and service, in the comprehensive and authoritative two levels. The goal is to build the internationally renowned oceanographic data center.

SCSODC is based on the South China Sea, China's largest marginal sea and the only tropical sea area, to realize the full integration of the marine environment observation basic data and information products of the South China Sea and its adjacent sea area, to do better serve for the marine scientific research, marine environmental protection, marine disaster prevention and reduction, marine rights and interests maintenance, marine knowledge dissemination.

SCSODC is established relying on the South China Sea Institute of Oceanology, Chinese Academy of Sciences. In 2011, by the assessment of the Ministry of Science and Technology, SCSODC was identified as one of the important regional sub-centers of National Earth System Science Data Sharing Infrastructure for oceanographic data sharing service, SCSODC officially transferred to operational service and sustainable construction, it has been operating normally for 7 years.

SCSODC has had systematic, long-term, multidisciplinary, first-hand accumulation of oceanographic data in the South China Sea and its adjacent sea areas. The characteristics of data resources include: the data of the Comprehensive Survey of the Nansha Islands and its Adjacent Sea Areas since 1985, the data of the Northern South China Sea Open Cruise since 2004, the real-time observation data of the Xisha and Nansha Deep Sea Marine Environment Observation Station since 2006, the data of the Scientific Investigation over the South China Sea from 2009 to 2012, the data of the Eastern Indian Ocean Comprehensive Survey since 2010, as well as the forecast data and products of Experimental Platform of Marine Environment Forecasting since 2010.

The practices of data management and sharing, key technologies and functionality of SCSODC are discussed briefly in this paper. It is shown that SCSODC is able to implement web visualization sharing and seamless access to ocean data, information, and knowledge in a distributed and heterogeneous environment.