

# MODERN HYDROGRAPHIC INFORMATION SYSTEM FOR FUTURE MAPPING OF THE ADRIATIC SEA

MLADEN SRDELIC <sup>1</sup>

E-Mail [mladen.srdelic@st.tel.hr](mailto:mladen.srdelic@st.tel.hr)

VLADO DADIC <sup>2</sup>

E-Mail [dadic@izor.hr](mailto:dadic@izor.hr)

ZVONKO GRZETIC <sup>1</sup>

E-Mail [zvonko.grzetic@dhi.tel.hr](mailto:zvonko.grzetic@dhi.tel.hr)

<sup>1</sup> HYDROGRAPHIC INSTITUTE OF THE REPUBLIC OF CROATIA

Z.Frankopanska 161, 21000 SPLIT, CROATIA

[www.dhi.tel.hr](http://www.dhi.tel.hr)

<sup>2</sup> INSTITUTE OF OCEANOGRAPHY AND FISHERIES

Setaliste Ivana Mestrovica 63, 21000 SPLIT CROATIA

[www.izor.hr](http://www.izor.hr)

Marine organization world wide have an enormous responsibility to ensure the protection of lives, property and marine environment. These organization fulfill their responsibility through an organized and sophisticated process which includes measuring and processing of oceanographic and hydrographic survey data, creation, retrieval and management marine databases, and subsequent digital production of charts, thematic maps, and various nautical and other publication. Modern technologies is forcing such kind of organizations to completely redesign their information systems and develop the means for management off all hydrographic, oceanographic and nautical information needed in future digital product for user in maritime environment. This paper overviews new tendencies in international maritime community in developing modern hydrographic ,oceanographic and nautical information systems.It is described conceptual point of view and conceptual model of future Hydrographic information system for East coast of the Adriatic Sea as common project of Croatian Hydrographic Institute and Institute of Oceanography and Fisheries. Using powerfull modelling techniques, business model of this two institutions is underlyed with regard to developing spatial information product for marine information system of theAdriatic Sea.Special accent is made on model for common distributed information system that have to allow implementation of GIS techniques in spatial analysis , developing and organizing services for access to geographical informations using Internet facilities and to the role of such information system in future mapping area of theAdriatic Sea , specifficaly for ENC production and support of ECDIS systems.