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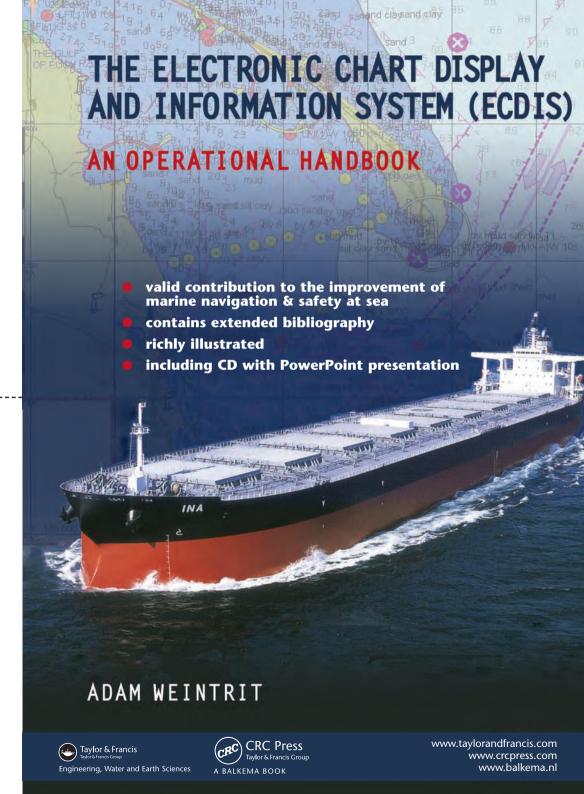
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#### ADAM WEINTRIT

Electronic navigation is becoming increasingly more common, particularly onboard commercial vessels. Today's mariner needs a tool of a similar quality standard as the traditional standard paper chart (SNC), yet which fits the demands of a new navigational age.

The electronic chart provides significant benefits in terms of navigation safety and improved operational efficiency. More than simply a computer display, an electronic chart system is a real-time navigation system that integrates a variety of information that is displayed and interpreted by the mariner. It is an automated decision aid capable of continuously determining a vessel's position in relation to land, charted objects, aids-to-navigation, and unseen hazards. There are two basic types of electronic chart systems. Those that comply with the IMO requirements for SOLAS class vessels, known as the Electronic Chart Display and Information System (ECDIS), and all other types of electronic charts, regarded generically as, Electronic Chart Systems (ECS).

This guide aims to provide answers to some of the most frequently asked questions regarding electronic charts (ENC, RNC, DNC) and electronic chart systems (ECDIS, RCDS, ECS). The IAMU model course on training in the operational use of ECDIS presented in this book may be used by staff and students of any maritime university, navigational faculty and training institution as alternative or supplement to IMO Model Course 1.27.

### The Electronic Chart Display and Information System (ECDIS)

Adam Weintrit

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#### About the author:



**Prof Dr Adam Weintrit**, FRIN, FNI, Master Mariner, is a Dean of the Faculty of Navigation of Gdynia Maritime University, Poland. He is also Head of Navigational Department (since 2003), and Head of Electronic Navigational Charts and ECDIS Simulator (since 1996). He holds a MSc degree from Gdynia Maritime University, Faculty of Navigation (1985), a Ph.D degree (1992) and a DSc degree (2004) from Warsaw Technical University, Faculty of Geodesy and Cartography.

With over 20 years of experience in teaching and research in the field of maritime navigation, sea transport, hydrography, cartography, geodesy and safety at sea, Adam Weintrit has written 12 books on navigation, including 4 handbooks on ECDIS and electronic charts. He has also published more than 150 reports and papers in journals and conference proceedings.

He has been involved in national projects founded by the Polish Committee for Scientific Research, several local projects founded by GMU and has also co-operated in few international projects, including European Union projects 'Saferelnet' and 'Baltic Master', two projects founded by European Union under a Socrates Program and 3 grants of IAMU founded by Nippon Foundation (including two as a project leader). Repeated member of program- and organising committees of international conferences and symposiums.

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