

Manual Ecdis Chartpilot 11

MTS '92, Global Ocean Partnership Lloyd's Ship Manager Shipping World and Shipbuilder British Motorship Shipping World & Shipbuilder Safe Trajectory Planning for Maritime Surface Ships The Motor Ship Marine Engineers Review Lloyd's List Maritime Asia Sea Technology Contour Lighthouse The Hydrographic Journal The International Hydrographic Review Significant Ships of ... Survey Vessels of the World Hansa Jahresbericht Introduction to Electronic Chart Navigation: With an Annotated ECDIS Chart No. 1 The Electronic Chart Display and Information System (ECDIS) Agnieszka Lazarowska Germany. Bundesamt für Seeschifffahrt und Hydrographie David Burch Adam Weintrit

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this book offers a comprehensive review of collision avoidance techniques and safe trajectory planning for manned and unmanned ships together with extensive information on how to develop and implement algorithms for applications in real world settings it describes the most relevant decision support systems and guidance systems used in the control of marine craft giving a special emphasis to autonomous vehicles but also covering manned ones thanks to its good balance of theory and practice and the inclusion of basic explanations of all essential concepts this book fills an important gap in the literature of marine navigation providing not only researchers and practitioners with a timely reference guide to safe trajectory planning but also supporting students and newcomers to the field

there are two types of electronic charts raster navigational charts rnc and electronic navigational charts enc rnc are exact copies of paper charts and their use underway comes naturally to navigators accustomed to paper charts all traditional paper charts however and their rnc are being discontinued by noaa many are gone already and all will be gone in a year or so enc also called vector charts on the other hand include much more information than rnc they allow user selected display options that enhance safety and efficiency and they are easier to keep up to date but they do not look like traditional charts and they do not behave like traditional charts navigation with enc is fundamentally different from navigation with paper charts or rnc electronic charting benefits all mariners professional and recreational large vessels and small power and sail racing and cruising the unique information in this book should help mariners in any of these categories master the use of enc to enhance their safety and performance underway there are many virtues of enc but to take advantage of these a new approach to reading charts is called for this book explains and illustrates the process from the forward to the second edition two primary factors have taken place since the first edition that affect the content of this book foremost is the ongoing noaa program to redesign the layout of all enc to make them more consistent amongst themselves and with the enc from other nations this is a major improvement the process is called rescheming the most apparent changes are the shapes and coverages of the individual charts which when reschemed become regular and consistent chart scales and depth contour conventions are also improved plus we get a larger more detailed compilation scale for many areas on top of these changes the uscg has just completed a call for comments on the proposed new ruling that vessels must have some electronic chart viewer on board to effectively read the official enc in other words we are at the moment when enc have gone from an optional substitute for paper charts to being a required method of navigation with all of this going on we can see why noaa decided it was time to take on the daunting task of rescheming all of the us enc we have added an appendix on rescheming to cover the details of the changes and how we recognize them in conjunction with what we now call the legacy enc that exist before rescheming the full conversion will take some years to complete so we will be using the legacy enc layouts for quite a while to come the interpretation and basic use of enc does not change with the reschemed charts when a topic comes up in the book that is affected by rescheming we make note of the changes with a reference to the appendix there is also a short appendix on the new noaa custom chart program ncc another on inland enc the us army corps of engineers charts for the western rivers and one emphasizing a recommended vessel icon set up for navigation in strong wind or current an overview of the next generation enc called s 100 has also been added as an appendix the second primary factor that has led to updates in this edition was the preparation for and first experiences we have had with our new training course on electronic chart navigation many sections throughout the book have been enhanced to reflect the practical experience we gained interactions with students first learning a new subject is an invaluable resource we are lucky to have topics with

more extensive updates include coverage of the quality of data object and zone of confidence attributes treatment of magnetic variation use of safety contour and safety depth plus a new section on the use of encrypted s 63 charts with a specific example using the newly free enc from new zealand

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