

## SELECTED NAVIGATION SOURCES ON THE WEB

<http://chartmaker.ncd.noaa.gov/staff/NCUM/ncum.htm>

The *Nautical Chart User's Manual* (<http://chartmaker.ncd.noaa.gov/staff/NCUM/ncum.htm>) was researched and composed by Mr. L. Daniel Maxim with the cooperation of the Marine Chart Division, Office of Coast Survey, National Ocean Service, NOAA. It provides a wealth of technical information concerning the structure, layout and construction of a nautical chart, covering basic topographic and hydrographic features, aids to navigation, chart symbols, miscellaneous other charting features and supplemental information. The material is thorough and complete and presented in a readable and entertaining format. Mr. Maxim is President of Everest Consulting Associates, Cranbury, New Jersey, and a member of the U.S. Coast Guard Auxiliary Department of Education. A similar collaborative effort with the United States Coast Guard resulted in the publication of the Loran-C User Handbook in 1992, a comprehensive and much expanded update of a previous Loran-C User Handbook published in 1980. The voluntary contribution of his time and effort resulting in the completion of the *Nautical Chart User's Manual* is greatly appreciated and acknowledged by the Office of Coast Survey.

These files are presented in PDF format and you must have the free Adobe Acrobat Reader software installed on your computer (<http://www.adobe.com/products/acrobat/readstep2.html>).

<http://anchor.ncd.noaa.gov/noaa/noaa.html> (online search)

<http://chartmaker.ncd.noaa.gov/mcd/catalogs.htm> (4 printed catalogs)

On-line chart catalogs to identify charts of interest for any location.

<http://chartmaker.ncd.noaa.gov/mcd/dole.htm>

Dates of latest charts.

<http://navigator2.maptech.com/bp/mapserver/index.cfm?type=0&>

On-line NOS charts (specify city & state, then zoom in/out to see smaller/larger areas). Not updated with LNM and "not for navigation."

<http://critcorr.ncd.noaa.gov/>

Critical chart and Coast Pilot corrections. This service provides advance notification of critical chart corrections identified and originated by NOS cartographers. Critical chart corrections include information on hazards to navigation or other information considered essential for safe navigation, e.g. channel conditions, bridge and cable clearances, regulatory changes.

***Information provided by this web site must not be viewed as a substitute for either the United States Coast Guard (USCG) Notice To Mariners (LNM) or the National Imagery and Mapping Agency (NIMA) Notices to Mariners (NM).*** Published aid to navigation changes and other important navigation information published in USCG and NIMA notices are not available on this web site. However occasional aid to navigation corrections may be included if originated by NOS.

<http://chartmaker.ncd.noaa.gov/nsd/coastpilot.htm>

Coast Pilot webpage. Ordering information, revisions/corrections, etc.

<http://chartmaker.ncd.noaa.gov/mcd/chartno1.htm> or

[http://164.214.12.145/pubs/pubs\\_j\\_show\\_sections.html?vt=ON&dpath=Chart1&ptid=3&rid=164](http://164.214.12.145/pubs/pubs_j_show_sections.html?vt=ON&dpath=Chart1&ptid=3&rid=164)

Chart No. 1 is a reference publication depicting basic chart elements and explains nautical chart symbols and abbreviations associated with National Ocean Service and Defense Mapping Agency charts. It is a valuable aid for new chart users and a useful tool for all mariners.

[http://164.214.12.145/pubs/USCGLL/pubs\\_j\\_uscgll\\_list.html](http://164.214.12.145/pubs/USCGLL/pubs_j_uscgll_list.html)

Light Lists updated with corrections.

[http://164.214.12.145/pubs/pubs\\_j\\_apn\\_sections.html?rid=100](http://164.214.12.145/pubs/pubs_j_apn_sections.html?rid=100)

The American Practical Navigator (Bowditch).

[http://164.214.12.145/calc/calc\\_options.html](http://164.214.12.145/calc/calc_options.html)

Marine navigation calculators.

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<http://www-personal.umich.edu/~tmorris/>

"Best Boating Resources on the Web" page. Selected boating websites of unusual interest or quality.

<http://www.cgaux.org/cgauxweb/public/pubframe.htm>

Coast Guard Auxiliary public webpage.

<http://www.marineplanner.com/>

View nautical charts online, query Coast Guard and DoD navigation databases, plot your trip route online, print tripticks, store log information, get weather conditions along your route, and calculate speed and heading and fuel consumption. Click on navigation aids along the route and get not only details on each aid but also any changes announced in Local Notices to Mariners.

<http://www.boatchart.com/mapping/chart/chartindex.cfm>

Easy-to-use online chart catalog and viewing.

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