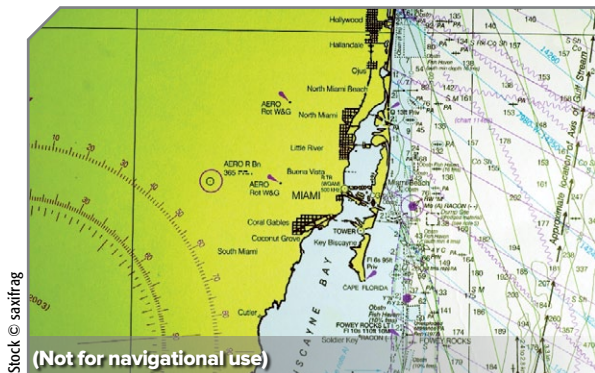


A Symbol of the Times



UNLESS YOU'VE LOOKED AT PAPER CHARTS for years and have become a master at reading them, interpreting all those little symbols, squiggly lines, arrows, numbers and more can be confusing. And with continuing updates, nothing was more reliable than the checking the U.S. Coast and Geodetic Survey's *U.S. Chart No. 1*, defining symbols, abbreviations and terms since 1948.

With new technology comes new chart systems and in the newly released 129-page twelfth edition, the guide has taken a step forward by including descriptions of the symbols specified by the International Hydrographic Organization for the display of electronic navigational charts (ENC) on Electronic Chart Display and Information Systems (ECDIS). Although many maritime nations produce their own versions of Chart 1, the new *U.S. Chart No. 1* is the first to show paper and electronic chart symbology side by side.

U.S. Chart No. 1: Symbols, Abbreviations and Terms Used on Paper and Electronic Navigational Charts is produced jointly by the National Oceanic and Atmospheric Administration (NOAA) and the National Geospatial-Intelligence Agency (NGA) and now supersedes all previous editions. The chart is available as a free download from the Coast Survey website. Printed copies are also available. www.nauticalcharts.noaa.gov

BEAT THE BUG



Still battling the diesel bug? Microbial fuel contamination is an ongoing challenge for engineers. If undetected, microorganisms can muck up fuel filters, wear injectors and damage engines.

It's been known that the "bugs," if left for long periods, can eat through stainless steel.

Regular draining from the bottom of the tank helps prevent sediment buildup, but fuel testing is necessary to identify if a microbial problem exists, especially before the fuel reaches the tank. Conidia Bioscience had developed a diesel bug test for the aviation industry, but when called upon by various navies, they designed a quick and accurate onsite test: FUELSTAT *resinae* PLUS. Able to deliver accurate results in 10 minutes for all middle distillate fuels (kerosene, marine gas oil and diesel), the test is now available through Global Services UK for £60. www.conidia.com; www.globalservicesltd.co.uk

FILL 'ER UP



Captains and engineers know all too well the logistics involved in filling up the tanks, but spending the time to find the best fuel prices as the yacht travels could be over. Bunker Buoy has brought together global fuel suppliers to offer yachts the best prices available around the world...all via the Bunker Buoy app.

Designed with larger yachts in mind (an IMO number is required to register), after entering the location, date, time and quantity of fuel required, the information is distributed to all the pre-registered fuel suppliers that are able to facilitate the order in that region, who then follow up with their offers.

Simply select the preferred offer and the supplier then makes contact to discuss details and any further requirements. "[Captains] and management companies understand the added value that they get by using bunker buoy," says Neil Miller, head buoy. "They see the varying offers and that information is retained so they can demonstrate to the owners that they are working in their best interest." The free app stores transactions for management records and is available for both Apple and Android products. www.bunkerbuoy.com

IN BRIEF

- **Aage Hempel Netherlands, Tijssen Elektro and e3 Systems** have joined forces to form **The Consortium**. The three technical companies offer a new build service for yachts that starts at concept and follows through every stage of the yacht's life. www.e3s.com
- **Bowline Yacht Transport** has responded to its continued growth by appointing Suzette Pelt to serve the Australian market. With 25 years of yacht chartering experience, Pelt will handle transport enquiries to and from Australia. www.bowline.eu
- **KVH Industries** has acquired **Headland Media Limited** to extend its maritime broadband service to include delivering premium content to vessels and bring Internet Protocol television (IPTV) technology to the maritime market. www.kvh.com
- **National Marine Suppliers** has added **GO₂**, the nanotechnology-based diesel fuel additive, to its shelves as well as its bunker supply operation National Fueling, making the additive easily accessible to users worldwide. www.nationalmarine.com