



FOR IMMEDIATE RELEASE:

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C-MAP LAUNCHES UPDATED INTEGRATED MARITIME SUITE FOR ENHANCED VOYAGE OPTIMIZATION

Powerful Software Platform Offers New Features for Unparalleled Efficiency

Egersund, Norway – C-MAP, a leader in digital marine cartography and cloud-based mapping, announced today the release of C-MAP IMS 2.1, a powerful upgrade of its Integrated Maritime Suite (IMS) with new features for navigational chart and publication management and even more powerful voyage optimization.

A modular onboard software suite, IMS 2.1 is designed to improve operational efficiency and streamline voyage planning and nautical information management.

The newly enhanced *NauticalManager* module supports a modern and efficient workflow for automated chart and publication management, and a comprehensive set of simple-to-use but powerful tools for route planning, graphical and quantitative analysis of weather and navigational considerations. *IMS Voyage Planning* is available free of charge to C-MAP commercial chart customers.

The *Weather Routing* module adds automated weather routing capabilities. It generates a navigationally correct route that stays within your specified weather limits. The *Optimization* module uses a state-of-the-art algorithm to generate, quickly and with minimal user input, the ideal route that meets commercial objectives while minimizing fuel consumption, maintaining seakeeping limits, and avoiding dangerous weather.

The platform streamlines and simplifies onboard navigational tasks while providing integration with C-MAP's web-based *FleetManager*, allowing unmatched levels of insight for operations managers.

New features included in the update:

- Complete management of onboard S-57/S-63 electronic chart portfolio and ability to view and use charts for passage planning directly in IMS

- 24/7 ordering and viewing of portfolio status, downloading licenses, chart data updating (online or via email) and exporting to ECDIS all C-MAP, UKHO (AVCS and AIO), and PRIMAR chart products
- 24/7 access to the industry's best proprietary marine weather forecasts with 19 weather layers (covering everything from wind and waves to visibility, temperature, storms, rain, snow and ice), super high-resolution forecasts for select regions and detailed port forecasts for 545 major ports
- Visual Weather Alarm Areas with configurable limits graphically indicate dynamic weather no-go areas
- License Certificates and ENC Holdings reports produced on demand onboard for Port State Inspectors
- Passage Plan report including T&P (Temporary and Preliminary Notices to Mariners)
- Flexible route optimization criteria to meet diverse demands
- Powerful vessel model editor for onboard customization

“The latest iteration of our IMS software is designed to help our commercial customers better maximize profits,” said Leif Ottosson, CEO, Navico. “Owners and operators of all types of oceangoing vessels will benefit from the new chart and publication management capabilities, as well as the weather routing and route optimization capabilities. IMS 2.1 is the ideal tool for planning and executing commercial voyages in the safest and most cost-efficient way.”

For more information on C-MAP Light Marine and Commercial products, visit www.c-map.com. For more information about the C-MAP Integrated Maritime Suite (IMS), please visit commercialmarine.c-map.com/en/route-planning-and-fleet-management/ims.

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About C-MAP:

C-MAP offers the world's largest marine navigation digital chart database, helping its customers explore the digital options and address the complexity of marine operations by providing integrated, intelligent information. C-MAP covers the world with accurate, up-to-date electronic charts, value-added data and services that let you sail safely to distant horizons, fill the boat with fish or cruise with confidence. C-MAP is the fourth brand in Navico's portfolio, joining Lowrance®, Simrad® and B&G®. For more information, please visit www.c-map.com.

Integrated Maritime Suite (R) 2.1.0.2035 - Server: localhost:8089 - (HW) JeT.JMN 00023 - Optimization, NauticalManager - User: Router

28-Apr 11-May 0000Z 21-May Valid: 11/00Z 0.0h Issued: 29/15Z 2.6h

Passage settings, Planned Stops and Route creation

Passage: ALTAMIRA (MEX), 22°29.2415' N 097°53.0648' W
 Departure date/time (UTC): 29-Apr-2019 18:01
 Dep. window: -0h/+0h

TEESPORT (GBR), 54°37.1100' N 001°09.2623' W

Optimization objective:
 Constant speed/power/RPM Required arrival (RTA)
 Earliest arrival Least cost

Control mode:
 RPM: 57.50 rpm Shortest

Passage profile: Laden Profile
 Fwd draft: 15.00 m Aft draft: 15.00 m
 GM: 4.00 m
 Nat. roll period: 26.0 s Auto

Export:
 Allow coastal (cabotage) routes Use rivers enroute
 Allow inshore traffic Allow DWR Use TSS

Planned Stops (0)
 Preview Direct Route

Route Details - Route: Alt (Earliest)
 Status: --- Depart: 29-Apr-2019 18:01Z ETA: 21-May-2019 21:11Z Dist: 5112.3 nm Dur: 22d 03.2h Cost: \$ 701,13... Reports Set Speeds

Planning SIM RESULTS General Motion Weather More Weather Engine

WP	Type	ETA dd/hhmm.z	Latitude	Longitude	Tr Wind		Sea		Swell 1		Swell 2		Roll °	COG °T	SOG kn	STW kn	
					Spd kn	R. Dir	Tot. W m	Hgt m	R. Dir	Hgt m	R. Dir	Hgt m					
.3	g	11/0000	44°59.4044' N	056°41.0280' W	24.2	▶	2.8	2.8	▶	0.3	▶	0.4	▼	0.1	060	9.1	9.2
.4	g	11/0600	45°26.3452' N	055°33.6925' W	23.3	▶	2.6	2.5	▶	0.6	▶	0.6	▶	0.1	061	9.1	9.1
44	g	11/1106	45°48.6926' N	054°35.6825' W	22.2	▶	2.5	2.2	▶	1.0	▶	0.6	▶	0.1	058	9.2	9.2