

Coastal Navigational Chart of Northern Islands of Sri Lanka

The National Hydrographic Office (NHO) of the National Aquatic Resources Research and Development Agency (NARA) in Sri Lanka conducted a hydrographic survey off the coast of the Jaffna peninsula in Sri Lanka from January to December 2018 to prepare a Coastal Nautical chart of the Northern Island of the country under the National Charting Programme, which was funded by the Government of Sri Lanka.

During the period of 1834 to 1985, the Royal Navy of Great Britain and Indian Navy conducted bathymetric surveys in this area and published the Admiralty chart “Palk Strait and Palk Bay Eastern Part” (BA 2197) in 1987. The scale of this chart is 1:150,000, and the lead line technique was adopted to carry out the survey (see Figure 1).

This sea area lacked updated bathymetric data, and due to the three-decade-long war situation, the NHO could not carry out any hydrographic surveys. After the civil war ended in 2009, the NHO started sporadic hydrographic surveys to address the fisheries sector’s requirements. However, the NHO identified the importance of updated bathymetric data in the area to fulfill the requirements for Safety of Navigation.

The systematic hydrographic survey aimed to cover a 650 square kilometer sea area from Kankasanthurai to Mandathiue Island of the Jaffna peninsula. The data collected under this project will be helpful not only for the preparation of nautical charts but also for researchers, engineers, developers, policymakers, and decision-makers in the maritime, fisheries, and environmental sectors.

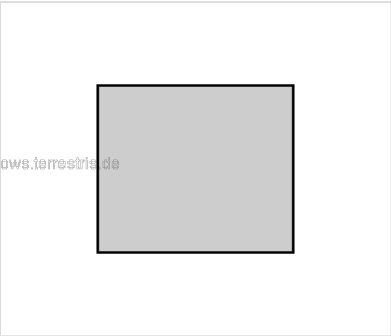
Based on the data collected, the NHO has prepared Coastal charts in a printed version at the scale of 1:50,000, Electronic Navigational Charts, and Digital Datasets.

Simple

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Date (Creation)	2023-07-29
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Purpose	Safety of Navigation
Status	Completed

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Access constraints	Copyright
Use constraints	Copyright
Spatial representation type	Nautical Chart(paper)
Language	English
Character set	UTF8
Topic category	<ul style="list-style-type: none">• Nautical Charting
Begin date	2018-01-01
End date	2018-12-31



Navigational_Band	3-Coastal
Methodology	Single beam and Side Scan Sonar
Standard	IHO S44
Horizontal_Datum	WGS84
Projection	Transverse Mecator
Vertical_Datum	LAT
Unit	Meter
Survey_Line_Spacing	50m
Cross_Line_Spacing	250m
Equipment_Used	Kongsburg EA440
Horizontal_Accuracy	+/-0.01
Vertical_Accuracy	+/-0.01
CATZOC	1
Survey_platform	Bar Reef
Survey_Speed	5 knts
Area_coverage	750 sq.km
Total_Line_Distance_Surveyed	15,000 km
DataAcquisitionSoftware	Hypack
Data_Processing_Software	Hypack, Caris
Reference system identifier	WGS 1984

Hierarchy level	Dataset
File identifier	edb26ec8-b955-4b10-a7ec-f59ca35bb4c5 XML
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Character set	UTF8
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Metadata standard version	1.0

Point of contact
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Overviews

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