

18616-A BATHYMETRY

SCALE 1:250 000 FIRST EDITION 1972

DEPTH CONTOURS IN METRES

\$1.00

BATHYMETRY

EXPLANATORY NOTES

This chart is one of a series of Natural Resource Charts designed to meet the expanding requirements for bathymetric information in Canada's coastal and offshore waters. The series follows the layout of the National Topographic System of maps and when completed will provide comparable coverage of the Canadian continental shelves, slopes, and adjoining areas.

DEPTHS ON THIS CHART ARE REDUCED TO LOWEST NORMAL TIDES

SOUNDING EQUIPMENT AND REDUCTIONS: The bathymetric contouring has been developed from data collected by the Canadian Hydrographic Service between 1936 and 1969 and by other agencies. The sources of data and sounding equipment, where known, are given in the Bathymetry Source Listing. Standard practice within the Canadian Hydrographic Service is to carefully calibrate all sounding equipment at least once per day. Data were collected in feet or fathoms and later converted to metres.

SOUNDING LINES: The general spacing of sounding lines is indicated on the Sounding Density Diagram. Discrepancy in depth measurements was never in excess of one fathom at track crossings in relatively shallow depths and in greater depths never exceeded the International Hydrographic Organization specified standard of 1% of depth.

POSITIONING SYSTEMS AND ACCURACIES: As indicated in the Bathymetry Source Listing a variety of positioning systems was used in the collection of data. Positions are based on a rigid framework of ground control based on the 1927 North American Datum. Positions are measured relative to ground control by visual observations or carefully calibrated electronic equipment.

INTERPRETATION: The southwest portion of this sheet was covered by the extremely accurate survey of 1968 (Reference 3). Trends were established within this area first and extrapolated onto the rest of the sheet. East of 57°W, data were scarce and of unknown validity, and contours in this area are not as good as those in the southwest. Information pertaining to submarine geology was provided by D. H. Loring, Fisheries Research Board. Land contours were interpolated from the National Topographic System of Maps.

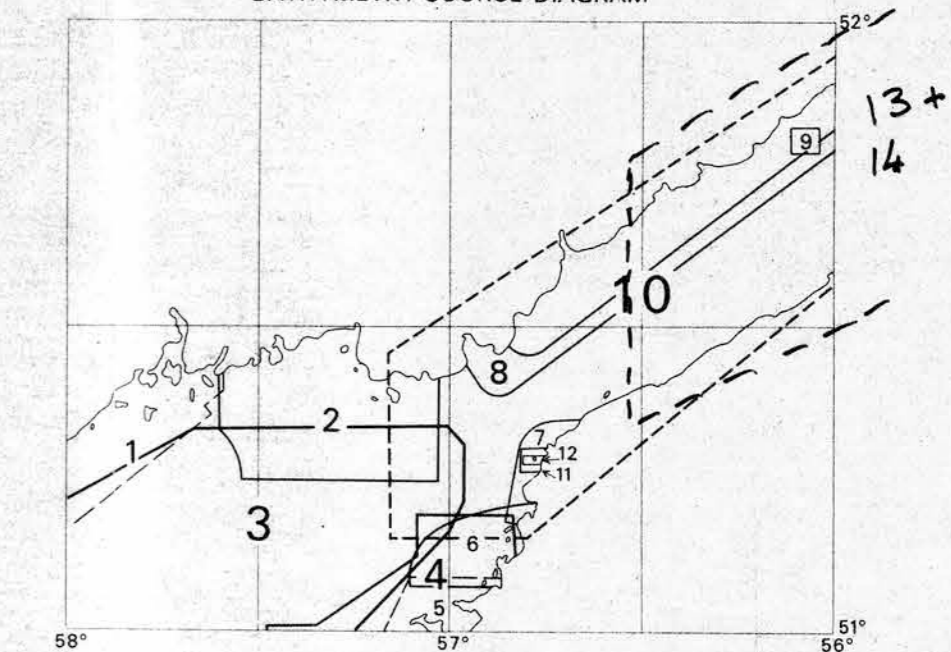
BATHYMETRY SOURCE LISTING

Ref. No.	Source Field Sheet or Chart	Year Surveyed	CANADIAN SOURCES			Positioning System	Sounding System
			Agency	Surveyor	Scale		
1	F.S. 1053	1936-38	CHS	J.U. Beuchemin	2"-1 Mile	Unknown	Lead Line
2	F.S. 1051	-	-	-	-	-	-
3	F.S. 4213	1968	AOL	F.L. DeGrasse	1:50,000	12F Lambda Decca	Kelvin Hughes MS 26B
4	Chart 4680	-	CHS	-	1:73,000	-	-
5	Chart 4665	-	-	-	1:18,295	-	-
6	Chart 4666	-	-	-	1:25,000	-	-
7	Chart 4667	-	-	-	1:24,300	-	-
8	F.S. 4263	1969	AOL	R.K. Williams	1:50,000	Radar	Kelvin Hughes MS 26B
9	F.S. 4197	1968	-	J.M.R. Piate	1:15,000	Conventional	Echo Sounder Type Unknown
10	Chart 4020	-	CHS	-	1:180,000	-	-
11	F.S. 3313	1963	BIO	J.E.V. Goodwill	1:12,000	Unknown	Echo Sounder Type Unknown
12	F.S. 2953	1955	CHS	H. Furuya	-	-	-

CHS - Canadian Hydrographic Service AOL - Atlantic Oceanographic Laboratory
BIO - Bedford Institute of Oceanography

13	F.S. 4960	1981	CHS	-	1:50,000	-	-
14	4963	1981	CHS	-	1:50,000	-	-

BATHYMETRY SOURCE DIAGRAM



SOUNDING DENSITY DIAGRAM

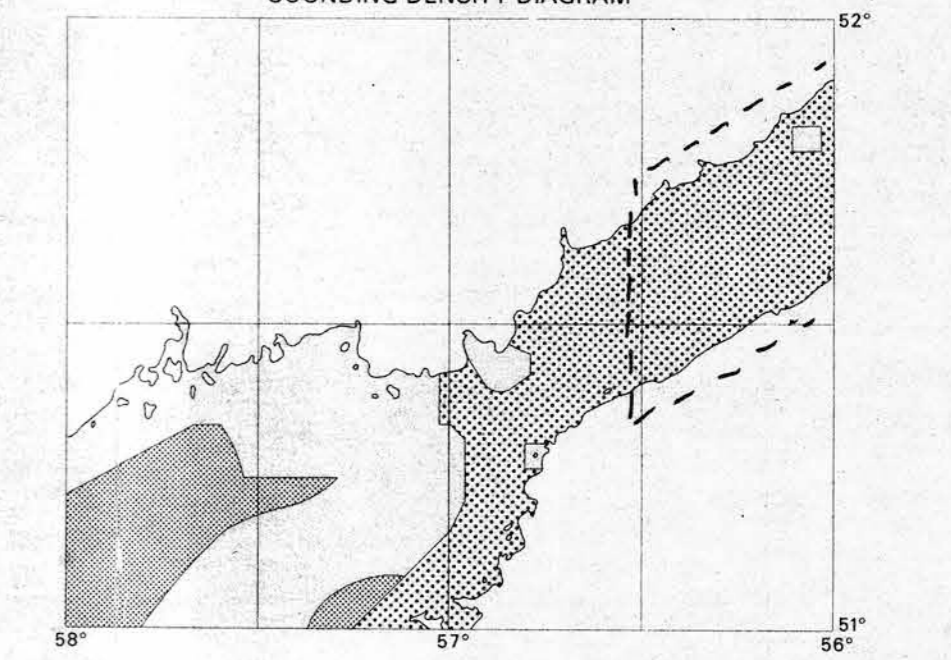
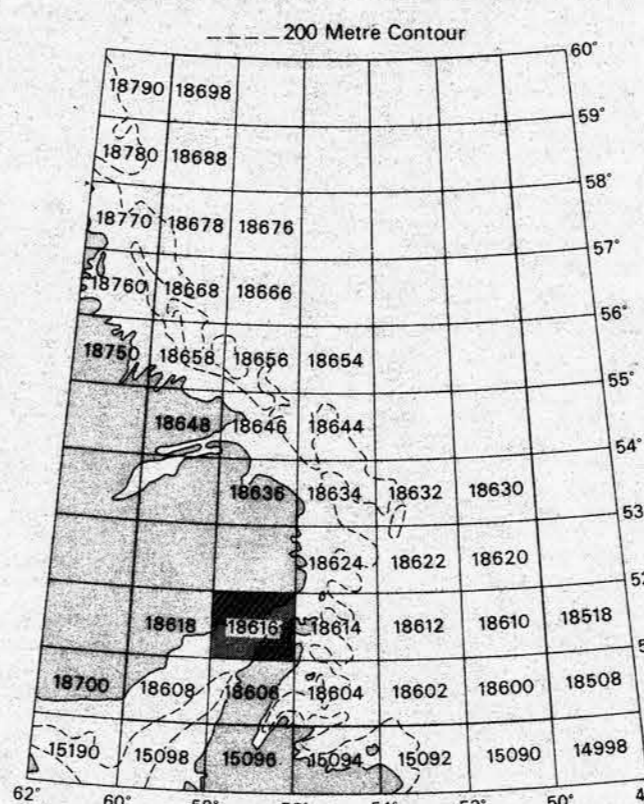


CHART LOCATION INDEX
THIS CHART FALLS IN MARSDEN SQUARE 186



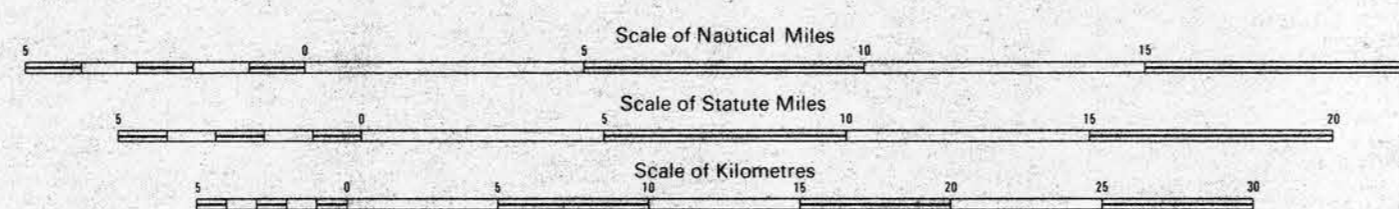
Information concerning other charts in this series is published in Information Bulletin 21 by the Canadian Hydrographic Service.

NATURAL RESOURCE CHART
DEPTH CONTOURS IN METRES

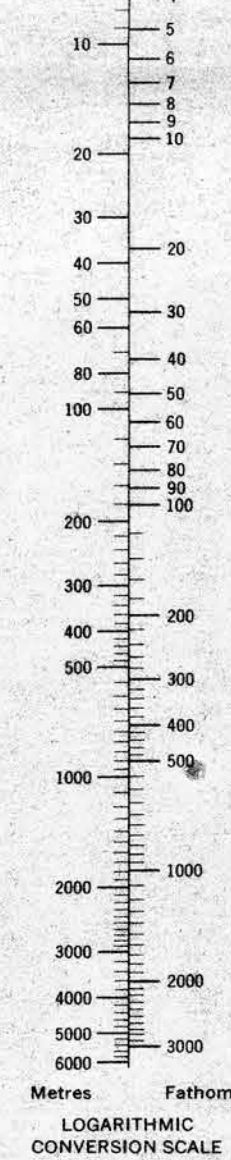
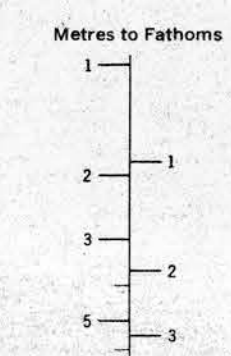
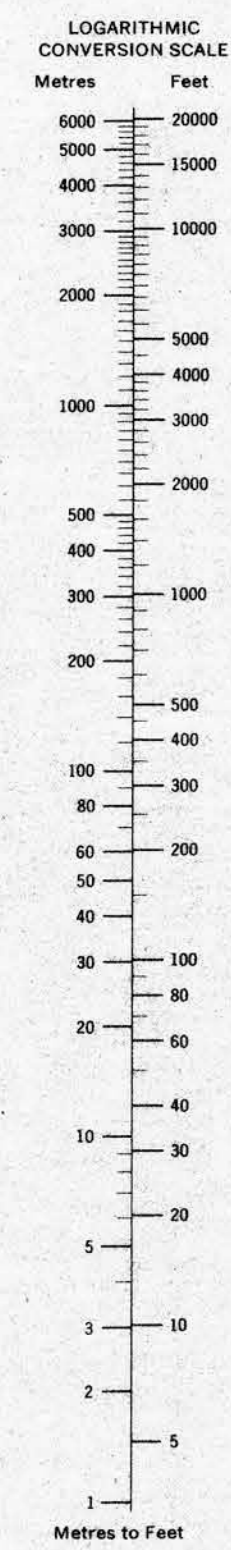
SEE BATHYMETRY EXPLANATORY NOTES FOR CORRECTIONS TO DEPTHS

Transverse Mercator Projection

Scale 1:250 000



PUBLISHED BY THE CANADIAN HYDROGRAPHIC SERVICE
MARINE SCIENCES BRANCH
DEPARTMENT OF THE ENVIRONMENT, OTTAWA
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Convergence of meridians may be taken as 0.30 degrees for each 30 minutes of longitude going westerly true bearings increase accordingly and going westerly true bearings decrease accordingly. Allowance for this should be made when laying off a ship's course.

LEGEND

BATHYMETRY
Contour Interval..... every 10 metres
..... down slope symbol

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REDUCE THIS LINE TO 20 INCHES