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Oceanographic Observations by the Fisheries
Research Board of Canada in the ICNAF Area
during 1961.

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The Fisheries Research Board of Canada, through its various establishments on the east coast, conducted oceanographic research in the ICNAF area during 1961. The Biological Stations at St. Andrews, N. B., and at St. John's, Newfoundland, and the Atlantic Oceanographic Group at Halifax, N. S., were engaged in the collection of data.

As shown in Table I, the ships and vessels used by the Fisheries Research Board of Canada for the collection of oceanographic data during 1961 were: C.N.A.V. "Sackville", C.G.S. "A.T.Cameron", M.V. "Investigator II", M.V. "Harengus", M. V. "Marinus", M. B. "Pandalus II" and M.B. "Mallotus". The C.N.A.V. "Sackville" was engaged in oceanographic cruises only while the other vessels were engaged most of the time in fishing operations or in plankton surveys. During most of the "Sackville" cruises, the regular temperature and salinity distribution studies were augmented by studies in chemical, biological, and geological oceanography. The emphasis in plankton surveys was given to distribution of fish eggs and larvae.

Because of the very large number of stations occupied during the year the presentation of station positions in chart form was most convenient to show the distribution of stations over the ICNAF area during each quarter of the year.

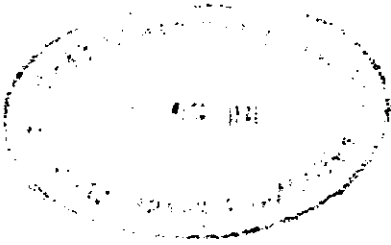
Station positions for observations in the ICNAF area were plotted in chart 1,2,3, and 4 for each quarter of the year, respectively.

The types of observations are shown on the charts by distinctive symbols. There are four types of observations:

- a) hydrographic station, temperature and salinity at standard depths, and a bathythermograph cast;
- b) a bathythermograph cast and a bottom salinity and/or temperature;
- c) a bathythermograph cast only;
- d) daily monitoring stations.

There are a few positions not plotted because of the closeness of the stations on this small-scale chart. Repeated observations at one point are shown by only one symbol on the chart. Daily observations at monitoring stations are shown on the chart, but not accounted for in Table II. Daily surface temperature observations were carried out at the following monitoring stations: St. Andrews, N. B., "Lurcher" Lightship, "Sambro" Lightship, Halifax Harbour, N.S., Entry Island, Que., Port Borden, P.E.I. and St. John's, Newfoundland.

The number of various types of observations per quarter per subarea are summarized in Table II. Four ICNAF subareas and contiguous areas were covered in 1961 by the research vessels of the Fisheries Research Board of Canada with a grand total of 1,698 stations.



-2-

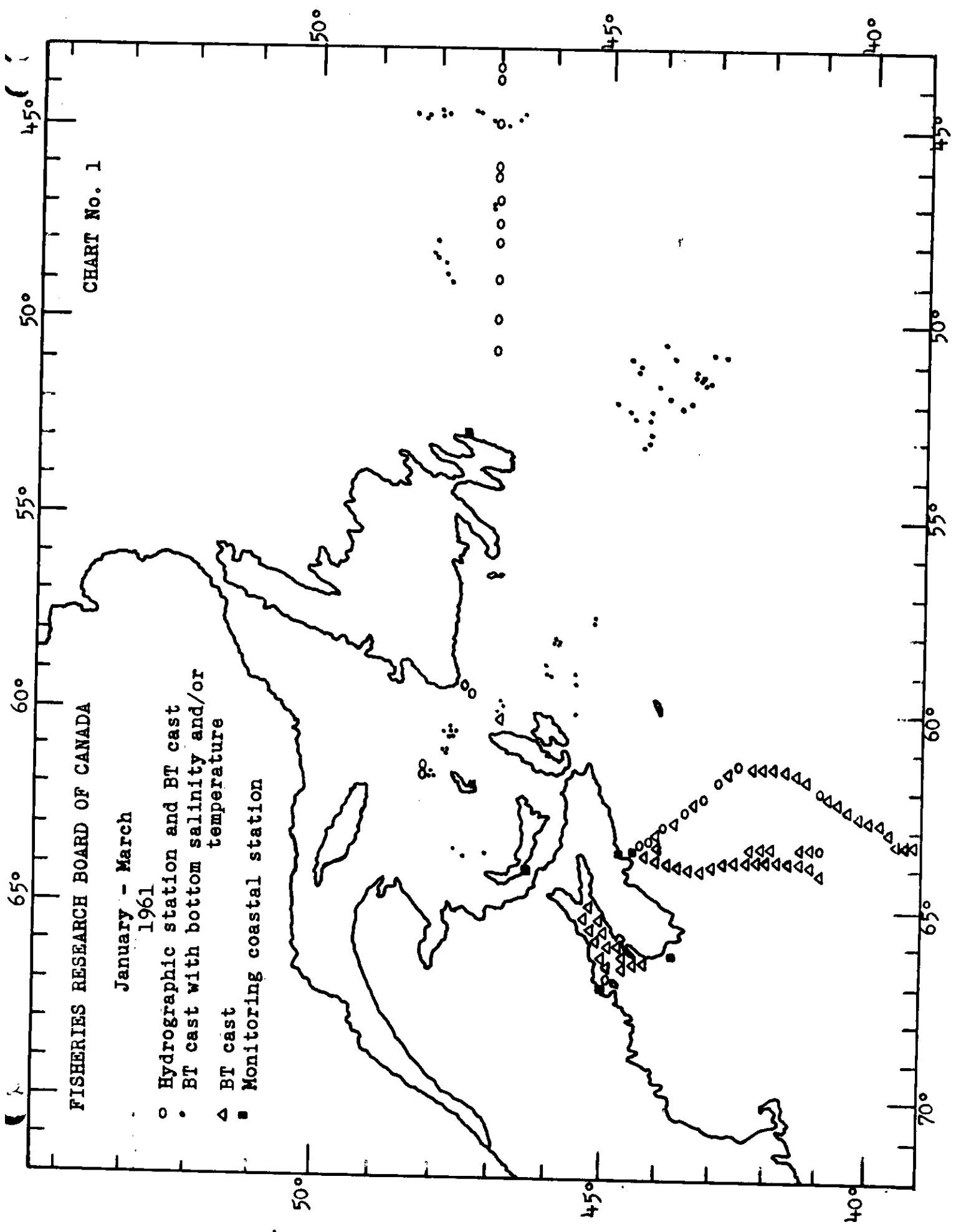
Table I List of cruises for each quarter of the year 1961

Quarter	Vessel	Cruise code letter and number *
January - March (Chart 1)	A.T. Cameron	ATC-32, 33, 34, 35, 36
	Harengus	MPS-8, 9, 10
	Harengus	HS - 30
	Mallotus	MPS - 11
	Marinus	Station 27
	Sackville	S - 54, 55
April - June (Chart 2)	A.T. Cameron	ATC - 37, 38, 39
	Harengus	GRF - 30, 32, 34, 35
	Mallotus	MPS - 12, 13, 14, 15
	Investigator II	INV - 30, 31
	Marinus	MAR - 16, 17
	Pandalus II	PA - 7
July - September (Chart 3)	A.T. Cameron	ATC-39 (contd.), 40, 41, 42, 43, 44
	Harengus	HS - 31, 32, 33, 34
	Harengus	GRF - 36, 37
	Mallotus	MPS - 16
	Investigator II	INV - 32
	Marinus	MAR - 17 (contd.), 18, 19
	Sackville	S - 56, 57, 58
Pandalus II	PA - 7	
October - December (Chart 4)	A.T. Cameron	ATC - 46, 47, 48
	Harengus	HS - 35, 36
	Harengus	GRF - 38, 39
	Mallotus	MPS - 17
	Marinus	MAR - 20, 21
	Sackville	S - 59, 60
Pandalus II	PA - 7	

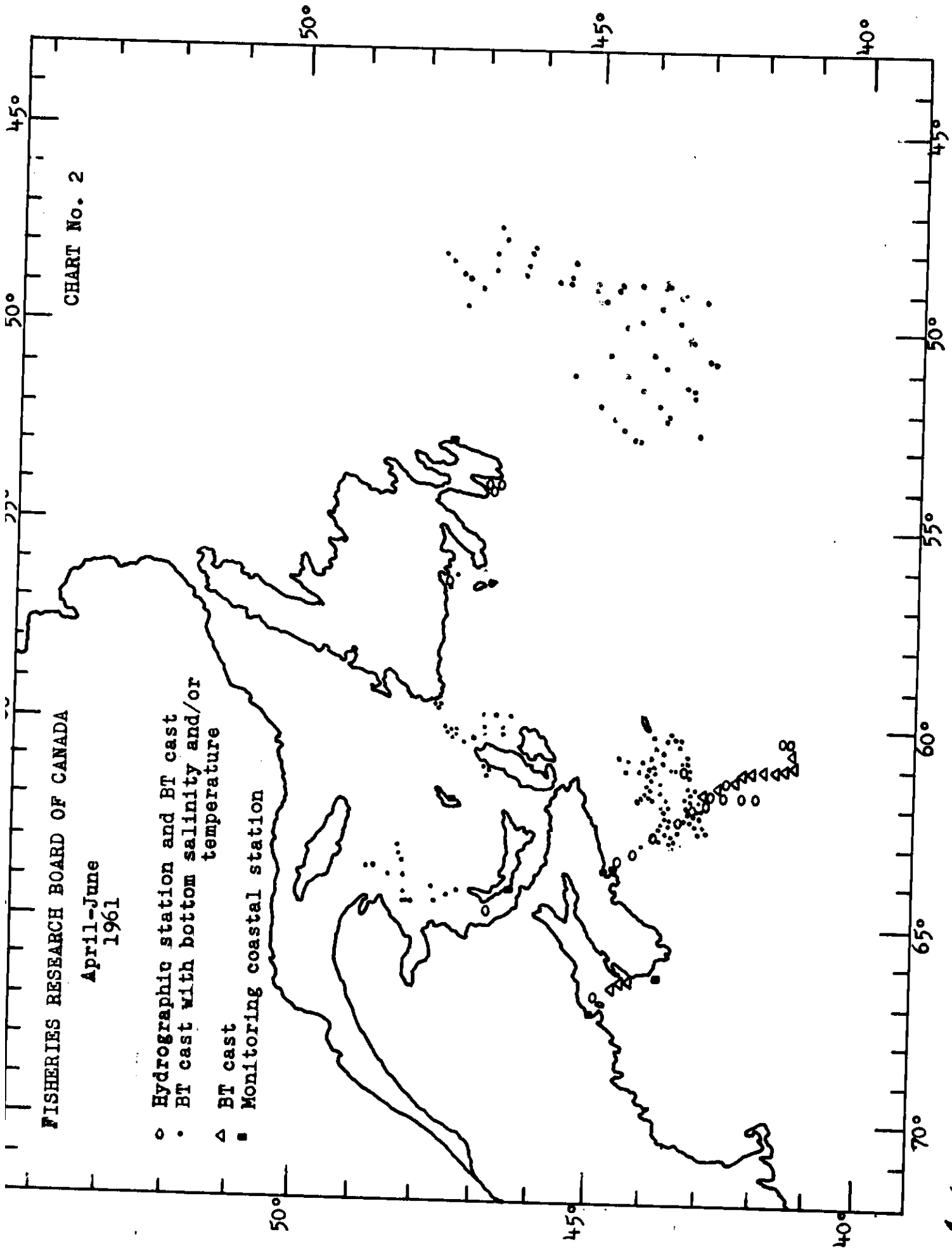
* The code letter and numbers refer to those used in the library of data at the Biological Station, St. Andrews, N.B.

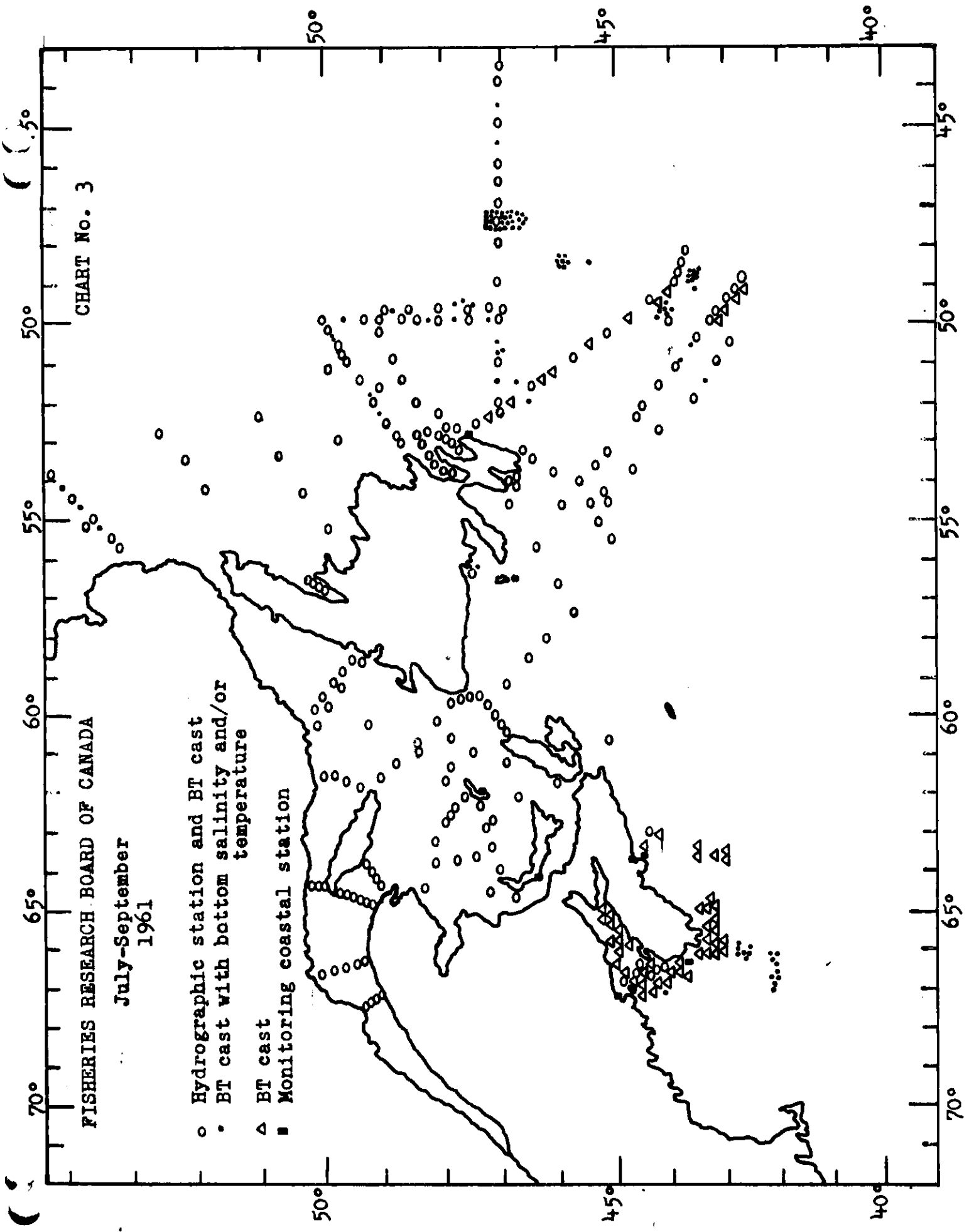
Table II. Types and number of oceanographic observations per quarter per subarea

Quarter	Subarea	Hydrographic Station and BT cast	BT cast with bottom sal. and/or temperature	BT cast	Total
January-March	3	17	60		77
	4	<u>19</u>	<u>34</u>	<u>149</u>	<u>202</u>
		36	94	149	279
April-June	3	20	97		117
	4	<u>17</u>	<u>144</u>	<u>51</u>	<u>212</u>
		37	241	51	329
July-September	2	12	5		17
	3	141	150	12	303
	4	102	22	96	220
	5		11	5	16
			<u>255</u>	<u>188</u>	<u>113</u>
October-December	3	15	66	59	140
	4	<u>62</u>	<u>50</u>	<u>282</u>	<u>394</u>
		77	116	341	534
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Total					
January-December	2	12	5		17
	3	193	373	71	637
	4	200	250	578	1028
	5		11	5	16
			<u>405</u>	<u>639</u>	<u>654</u>
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Grand Total		405	639	654	1698









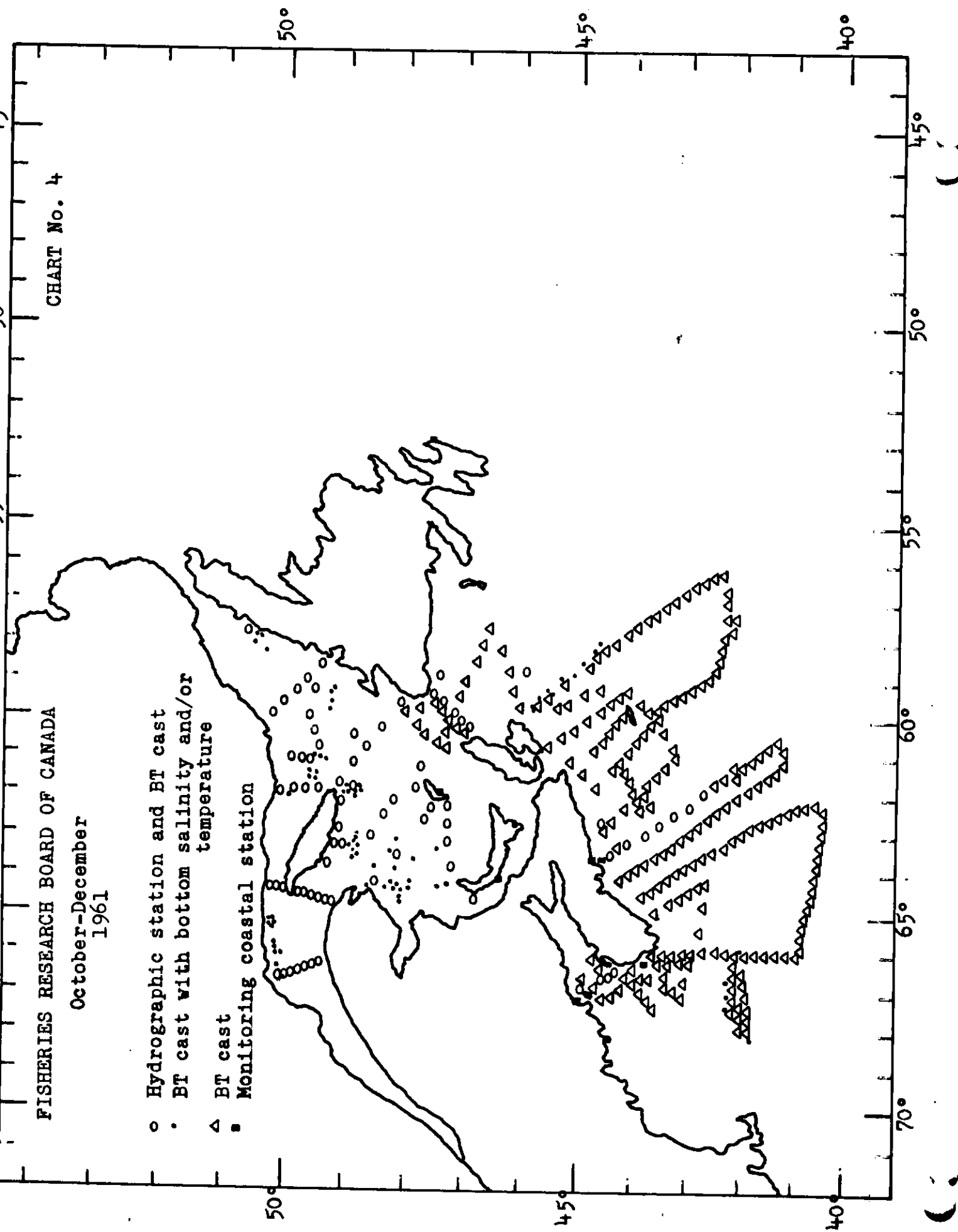


CHART No. 4

FISHERIES RESEARCH BOARD OF CANADA

October-December
1961

- Hydrographic station and BT cast
- BT cast with bottom salinity and/or temperature
- △ BT cast
- Monitoring coastal station

