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Northwest Atlantic

Fisheries Organization

NAFO SCR Doc. 83/VI/24

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Marine Environmental Data Service Report for 1982/83

by

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Introduction

Physical oceanographic data collected within the NAFO area during 1982 totalled over 7500 stations of which MEDS has received approximately half prior to the June 1983 Annual meeting. Sources of identification for data included the NAFO - MEDS inventory of Oceanographic Stations forms submitted by the Northwest Atlantic national representatives, the MEDS Canadian Marine Data Inventory (CAMDI), the Reports of Observations/Samples Collected by Oceanographic Programs - ROSCOP (Unesco/IOC) forms, and real-time data received at MEDS via the Integrated Global Ocean Services System (IGOSS). Some progress was made in acquisition of outstanding historical data collected within the NAFO area however the majority is still missing from the MEDS data banks. No environmental summary was included for 1982 as there was no fully processed NAFO standard section data available to MEDS prior to the June 1983 meeting.

1982 Data Not Yet Received by MEDS

Table 1 lists oceanographic cruises conducted by member countries of NAFO but for which the data have not yet been received at MEDS. The table headings refer to the individual cruises which collected temperature (T), salinity (S), and other (O) oceanographic variables. The Reference heading refers to the source from which this information was gathered. Nine-letter codes beginning with C refer to MEDS file numbers identifying a research publication which was coded into MEDS Canadian Marine Data Inventory (CAMDI) com-

Serial No. N675

puterized on-line system. ROSCOP refers to the International Reports submitted by Unesco/IOC participant member countries of which Canada is also a member. The Integrated Global Ocean Services System was another source of data which enabled MEDS not only to acquire knowledge of data collected but also to actually receive raw oceanographic data in real-time during the cruises. Although the NAFO Inventory forms were only completed by Denmark and France, this form did prompt Poland and the U.S.A. to report their 1982 observations directly to MEDS by personal communication. Track charts of selected IGOSS cruises are displayed in the attached figures. 1982 Data Received and Processed

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Table 2 lists the data received from collections made in the NAFO area in 1982. As expected, most is of Canadian origin. The only other country which submitted data was the U.S.S.R., and these data were not received at MEDS until May, 1983. The number of hydro casts (2175) and BT data (1455) received this year is relatively typical of data submitted annually. Track charts of fully processed cruises are shown in the attached figures and are available at MEDS on request. The data received at MEDS for 1982 cruises still only represents roughly 50% of the data actually collected during 1982.

Historical Data Acquisition

For the last few years MEDS has presented a list of historical oceanographic cruises which collected oceanographic data within the NAFO area but for which MEDS had not received the data. A complete list was presented in the MEDS report for 1981/82 (NAFO SCR Doc 82/VI/44). Table 3 lists the cruises for which MEDS has been successful in acquiring data from this list. Noteworthy, is the data submitted by Denmark via the ICES, which essentially completes this country's outstanding data submissions and, of more importance, helps to complete MEDS data banks of NAFO Standard Sections for West Greenland sections. The majority of the data however is still outstanding and each national representative is requested to report the status of these data to MEDS. Adding to this list, one must now include the data for 1981 listed in NAFO SCR Doc 82/VI/44 for which MEDS has not yet received the data except for Canada, the data for which have now been received.

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Review of Environmental Conditions in 1981

Attached are cruise tracks of data received at MEDS for data collected during 1982 in the NAFO area. As can be seen, there were no data collected along standard sections but the data represents the trend of collecting more spatially distributed data for specific research programs. MEDS has yet to find a method of relating this type of data to historical observations although it is at present investigating the possibility of identifying Emperical Orthogonal Functions based on historical observations within the NAFO area.

					No. of	Pa	ramet	ers	MEDS
Platform	Start Date	End Date		NAFO Subarea	Stns.	Т	S	0	Reference
				CANADA					
Lady Hammond	02/02/82	25/02/82		4₩	59	х	Х	х	C82060I01
CSS Hudson	14/02/82	06/04/82		1F	132	X	Х	X	ROSCOP
CSS Dawson	22/03/82	26/03/82		4X	16	X	X	х	C82314I01
CSS Hudson	11/04/82	02/05/82		3 KLMN	78	^н х -	х	X	ROSCOP
CSS Dawson	22/03/82	26/03/82		4X	16	х	X	X	ROSCOP
CSS Dawson	09/04/82	15/04/82		3P, 4V	94	X	х		ROSCOP
CSS Dawson	25/07/82	08/08/82		4STR	65	X	х	· <u> </u>	ROSCOP
CSS Hudson	09/08/82	05/09/82		0	100	X	x	x	C82071101
CSS Dawson	12/08/82	08/09/82		0.2	130	x	x	x	ROSCOP
CSS Dawson	09/08/82	16/08/82		4S	30	x	X	x	ROSCOP
CSS Hudson	09/09/82	24/09/82		0	76	x	x	x	ROSCOP
CSS Dawson	08/09/82	15/09/82		4 Sт	135	x	x	_	ROSCOP
CSS Dawson	22/09/82	07/10/82		4W	10	x	x	- <u>-</u> -	ROSCOP
CSS Dawson	26/10/82	01/11/82		4X	56	X	X	X	ROSCOP
	n an			DENMARK					
Adolf Jensen	14/01/82	29/11/82		1	63	x	x		NAFO
	11,01,02	23/11/02	FEDER	AL REPUBLIC OF GERMANY					iun o
Anton Dohrn	10/02/82	20/03/82		5YZ	125	x	x	x	C83013T02
	,,	, ~_, ~		FRANCE	-20		••		000010100
mb - 1	10 (05 (02	00/07/00			70				
Thalassa	19/05/82	08/07/82		1	12	X	-	-	ROSCOP
Cryos	/01/82	/06/82		3P		X	-	-	NAFO
Cryos	/01/82	/03/82		4R, 2J, 3KLP	88	X	-		NAFO
Cryos	18/08/82	21/09/82		4VWX	116	X		-	NAFO
Cryos	18/08/82	21/09/82		4VWX	25	X	X		NAFO
Cryos	25/09/82	01/11/82		32	105	X		_	NAFO
				JAPAN					
Kaiyo Maru	/01/82	/03/82		3, 4, 5, 6	113	Х	Х	X	C83013I02
				<u>U.S.A.</u>					
Delaware II	18/01/82	29/01/82		5,6	300	X	X	_	C83028I01
Yukon	21/01/82	12/09/82		1	12	х	_	-	IGOSS
Albatross IV	25/01/82	12/02/82		5YZ	118	Х	х	Х	C83032I01
Delaware II	01/02/82	12/02/82		5,6	300	х	x	-	C83028I01
Evergreen	25/02/82	27/07/82		5,6	15	Х	_	-	IGOSS
Northwind	27/03/82	25/08/82		1, 2, 3, 4, 5, 6	54	Х	-	-	IGOSS
Delaware II	12/04/82	23/04/82		5YZ	108	Х	x	·	C83032I02
Albatross IV	19/04/82	04/05/82		5 Z	64	Х	х	X	C83041101
Delaware II	27/04/82	08/05/82		5Y	99	X	X	Х	C82033I01
Albatross IV	10/05/82	21/05/82		5z	42	X	-	-	C83011101
Delaware II	17/05/82	28/05/82		5YZ	102	Х	x	X	C83033102
Delaware II	01/06/82	11/06/82		5YZ	102	х	x	X	C83033102
Albatross IV	01/06/82	11/06/82		6ABC	153	X	-	-	C83034I01
Chevron California	23/06/82	18/12/82		1,6	267	X	-	-	IGOSS
				U.S.S.R.					
Ernst Krenkel	13/01/82	09/09/82		ЗМ	84	Х	<u> </u>		IGOSS
Poryv	06/02/82	18/02/82		_3M	23	х	-	-	IGOSS
Passat	18/03/82	31/12/82		6H, 3NM	186	х	· · _ ·	_ '	IGOSS
Musson	20/05/82	08/06/82		6H, 3NM	41	X	_	<u> </u>	IGOSS
Georgy Dushakov	02/10/82	03/11/82		6H, 3NM	78	х	Х	· _ ·	IGOSS

TABLE 1 Data collected during 1982 in the NAFO area but not yet received by MEDS.

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Platform	Start Date	End Date	NAFO Subarea	Data	Туре	Reference	Fig. No.
				BOT	BT		
			CANADA				
Gadus Atlantica	10/01/82	09/02/82	3P. 4R	4	41	180282060	Bl
Gadus Atlantica	28/01/82	09/02/82	3LM	134	43	180282061	Al
Marinus	03/02/82	07/02/82	3P	10		180482042	A2
Gadus Atlantica	19/02/82	09/03/82	30, 4V, 6G	69	70	180282062	B2
A.T. Cameron	20/02/82	20/02/82	3P	_	1	180182326	_
Marinus	22/03/82	03/03/82	3P	20		180482043	A3
A.T. Cameron	26/03/82	06/04/82	30	2	60	180182327	83
Gadus Atlantica	13/03/82	30/03/82	2J. 3K	1	125	180282063	B4
A.T. Cameron	16/04/82	27/04/82	30N	49	29	180182328	A4
Marinus	17/04/82	27/04/82	3L	22	_	180482044	
Shamook	28/04/82	03/05/82	3L	16	3	180382085	A5
Shamook	10/05/82	09/05/82	3L	3	105	180382329	B5
A.T. Cameron	28/05/82	09/06/82	3P	50	47	180182330	A6
Gadus Atlantica	16/06/82	05/07/82	3LO	2	27	180282066	B6
Gadus Atlantica	10/07/82	09/07/82	2HJ, 3K	2	153	180282067	в7
		1					
Lady Hammond	07/01/82	29/01/82	4X	46	45	180382001	Cl
Lady Hammond	02/03/82	10/03/82	4VW	64	-	180382002	C2
E.E. Prince	09/03/82	18/03/82	4X	150	118	180382003	C3
Lady Hammond	16/03/82	24/03/82	4X	69	-	180382004	C4
Lady Hammond	15/04/82	21/04/82	4VW	55	-	180382005	C5
E.E. Prince	07/05/82	20/05/82	4X	35	35	180382006	C6
Lady Hammond	10/07/82	18/07/82	4WX	76	25	180382007	C7
Lady Hammond	21/07/82	30/07/82	4VW	78	20	180382008	C8
E.E. Prince	13/07/82	06/08/82	4WX	97	84	180382009	C9
E.E. Prince	08/06/82	17/06/82	4T	85		180382010	C10
E.E. Prince	17/06/82	20/06/82	4 T	25	-	180382011	C11
E.E. Prince	24/06/82	08/07/82	4T	115	-	180382012	C12
E.E. Prince	09/09/82	30/09/82	4T	69	68	180382013	C13
Lady Hammond	28/09/82	06/10/82	4VW	73	42	180382014	C14
Lady Hammond	13/10/82	24/10/82	4WX	84	45	180382015	C15
E.E. Prince	28/10/82	08/11/82	4X	173	172	180382016	C16
Alfred Needler	17/11/82	27/11/82	4VW	107	97	180382017	C17
		1					
			U.S.S.R.				
T1 1	0.4.400.400			1.1			
EKIYPTIKA	24/09/82	02/10/82	4WX	92	-	90EL82001	. –
-	26/05/82	11/06/82	3L	15	-	90 82004	-
Gemma	06/02/82	11/03/82	3M	17	·	90GE82024	
Suloy	1//04/82	28/07/82	2J, 3KLMNO	266		90SU82025	-

TABLE 2 Data collected during 1982 in the NAFO area and received by MEDS.

<u>Platform</u>	Start Date	End Date	Geographic Area	MEDS rea <u>Reference</u>	
			DENMARK		
Adolf Jensen Adolf Jensen.	01/04/57	30/06/57	Davis Strait	C82069029	
Tornag Adolf Jensen,	01/01/57	31/12/57	Davis Strait	C82069029	
Tornag Dana	01/01/59 01/01/47	31/12/59 31/12/47	Davis Strait NE Atlantic	C82077029 C81258Y05	
Dana Dana	06/07/52 03/07/53	10/08/52 11/08/53	Labrador Sea, Davis Strait	C81257Y03	
Dana	29/06/54	30/08/54	Labrador Sea, Davis Strait	C81259106	
Dana	01/07/58	15/08/58	Davis Strait, Baffin Bay, Labrador Sea	C81282B01	
		FEDI	ERAL REPUBLIC OF GERMANY	<u>.</u>	
Anton Dohrn, Walter Herwig	08/03/70	28/03/70	NE Atlantic, Davis Strait	C81257I04	
			UNITED KINGDOM		
Ernest Holt	09/04/63	01/05/63	NE Atlantic, SE Greenland	C82068002	
			<u>U.S.S.R.</u>		
Passat	01/01/71	31/10/71	Georges Bank	C81257Y05	

TABLE 3 Outstanding historical oceanographic data received by MEDS for the NAFO area.







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CRUISE 180482043 22/ 3/82 - 30/ 3/82 20 STATIONS FIG. A3:









CRUISE 180282060 10/ 1/82 - 9/ 1/82 41 STATIONS FIG. B1:



FIG. B2:



CRUISE 180182327 27/ 3/82 - 6/ 4/82 60 STRTIONS FIG. B3:



CRUISE 180282063

FIG. B4:



FIG. B5:



FIG. B6:



FIG. B7:





FIG. C2:



FIG. C3:



CRUISE 180382004 16/ 3/82 - 24/ 3/82 69 STATION FIG. C4:



- 15 -



FIG. C6:







FIG. C9:



- 18 -

FIG. C10:





FIG. C11:



- 19 -





- 20 -



- 21 -



- 22 -











NORTHWIND



- 24 -



FIG. D5:





с.

