

**Long-Term Temperature Monitoring Program
1990-1993, Newfoundland Region**

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NEWFOUNDLAND REGION**

by

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ABSTRACT

E. B. Colbourne, P. Stead and S. Narayanan. 1995. Long-Term Temperature Monitoring Program 1990-1993, Newfoundland Region. Can. Tech. Rep. Hydrogr. Ocean Sci. 168: x + 482 p.

Monthly summaries of the temperature statistics including minimum, maximum, mean, standard deviations, degree day 0, degree day 4 and the number of observations are presented for thermograph deployments from 1990-1993 in the inshore regions of Newfoundland and Labrador. In addition, the temperature time series and location map are presented for the sampling period of each deployment.

RÉSUMÉ

E. B. Colbourne, P. Stead and S. Narayanan. 1995. Long-Term Temperature Monitoring Program 1990-1993, Newfoundland Region. Can. Tech. Rep. Hydrogr. Ocean Sci. 168: x + 482 p.

On présente ici des résumés des statistiques mensuelles de température, y compris des minima, des maxima, des moyennes, des écarts-types, du degré-jour 0, du degré-jour 4 et du nombre d'observations, pour les thermographes mouillés de 1990 à 1993 dans les régions côtières du Terre-Neuve et du Labrador. On et la série chronologique correspondant à la période d'échantillonnage.

INTRODUCTION

Temperature time series have been collected from the inshore regions of Newfoundland since 1967 and since 1978 in the Scotia-Fundy and Gulf of St. Lawrence Regions. The program, referred to as the Long-Term Temperature Monitoring Program (LTTMP) is conducted in support of various fisheries research programs. Instrument calibration, maintenance, and distribution for the Newfoundland region were done at the oceanography section of the Northwest Atlantic Fisheries Center (NAFC) in St. John's Newfoundland.

The quality controlled time series data from the thermographs are now archived at NAFC and the data are available upon request. This report presents a summary of the data from each deployment in the Newfoundland region from 1990 to 1993. Previous LTTMP data and technical reports are listed in the bibliography.

INSTRUMENTATION

The primary instrument used for collecting water temperatures in the near-shore region during the early years of the program was the Ryan model J-180 and J-90 analogue thermographs which recorded data on paper strip charts that were subsequently digitized upon recovery for processing. These instruments had a range of -5 to 25 °C with an accuracy of \pm 2.0 % or 0.6 °C. The Ryan TempMentor Digital thermograph was introduced in the mid 1980s followed by digital Hugrún Seamon thermograph in the late 1980s. The Ryan TempMentor thermographs, are small digital recording instruments, which can record up to 6361 temperature readings at sample intervals ranging from 1 second to 2 hours. This instrument has a range of -32 to 70 °C with an accuracy of \pm 0.3 °C. The Hugrún Seamon thermographs, introduced in the late 1980s are compact microprocessor controlled temperature recorders with the electronics and probe housed in a strong waterproof case. This instrument has a temperature range of -2.0 to 38.0 °C with an accuracy of \pm 0.1 °C and a resolution of 0.05 °C and can store up to 5400 temperature readings with sampling intervals from 1.0 second to 24.0 hours. At present most of the thermographs in use at the Department of Fisheries and Ocean's Northwest Atlantic Fisheries Centre in St. John's are digital, manufactured by Hugrún. The type of instrument is identified on the summary page for each deployment.

CALIBRATION

Each thermograph was calibrated prior to its deployment, by the Northwest Atlantic Fisheries Centre since 1989 and by the Bedford Institute of Oceanography before that. The sensor of each thermograph is submerged in a Guildline Model 5010 constant temperature water bath of 40% ethylene glycol and water where it is subjected to a series of known stable temperatures. The microprocessor bath control system provides constant cooling and heating for any temperature setting in the range -9.9 to 65.0 °C. A controlled temperature is achieved in 10 to 15 minutes and maintained to within 0.002 °C. Several thermographs are loaded at one time and recordings are made at -2.0, 0.0, 10.0, 15.0 and 20.0 °C. Approximately 4 hours are required at each temperature setting to allow for stabilization of the water bath. The digitized data from the analogue temperature charts were corrected by a linear equation determined from a least squares fit to the calibration data. The digital thermographs are calibrated prior to field deployment by entering the calibration data in a factory supplied software package. Data collected by these instruments are then automatically corrected when the data is downloaded to the computer. The calibrated thermographs are deployed to the field and returned to the oceanography section at NAFC after recovery. The strip chart is removed from the analogue thermographs and digitized.

DATA ANALYSIS

All Ryan Model J-180 thermograph data were digitized at NAFC using a 50 cm digitizing tablet model SummaSketch III. The analogue charts are digitized at 1.0 hour intervals except in low gradient regions where four hour intervals were used. The digitized values are then averaged over a four hour sampling interval and interpolated to the mid-point of the sample. Although the temperature values in the summary tables are reported to the nearest 0.01 °C, the previously stated accuracy of the particular instrument still applies.

For the digital thermographs the data translation, calibration and down loading was carried out using the PC software supplied by the manufacturer. All data were then archived into a common digital format on PCs for further processing. Any large spikes in the data were edited and replaced by the average of the adjacent two valid points.

DATA PRODUCTS

The quality controlled time series was used to generate monthly temperature statistics for each deployment. These consisted of minimum and maximum temperature and the day which it occurred, the mean temperature, standard deviation, degree day 0, degree day 4 and the number of samples for the month. It should be noted that although the statistics are generated for each month during the deployment, some months are incomplete so that the statistics only apply to the portion of the month in which there were observations. No attempts were made to extrapolate to the full month in these cases.

In this report we present a one page summary of the deployment, which includes; station name and station number, instrument type and serial number, station position and instrument deployment depth, water depth and sampling interval. This is followed by a table of the monthly statistics for the deployment period. The complete data set for each station is then presented as time series plot on a time scale of 120 days per panel. If the data record was more than 120 days, a second 120 day panel was produced beneath the first.

A station location map is also provided with each time series plot. The boundaries of the unit fishing areas in the inshore regions defined by the Department of Fisheries and Oceans are shown in Figure 1. The data in this report are organized in alphabetical order in each unit area starting in NAFO Division 2H and proceeding counter clockwise around the island of Newfoundland. Data from deployments in various freshwater rivers and ponds around Newfoundland are listed in a separate appendix at the end of the report. For the purpose of processing, deployment sites were given a unique station number starting at 100 for each year. This report contains data from a total of 229 deployments of which 87 were in freshwater. A complete list of deployments during the four years is in the table of contents. Some of the time series actually started in 1989 but the instruments were not recovered until 1990.

Acknowledgements

We thank the fisheries scientists at the Northwest Atlantic Fisheries Center for making the thermograph data available. It is our pleasure to acknowledge C. Hammond and D. Foote for their assistance in compiling this data report and for much of the data analysis.

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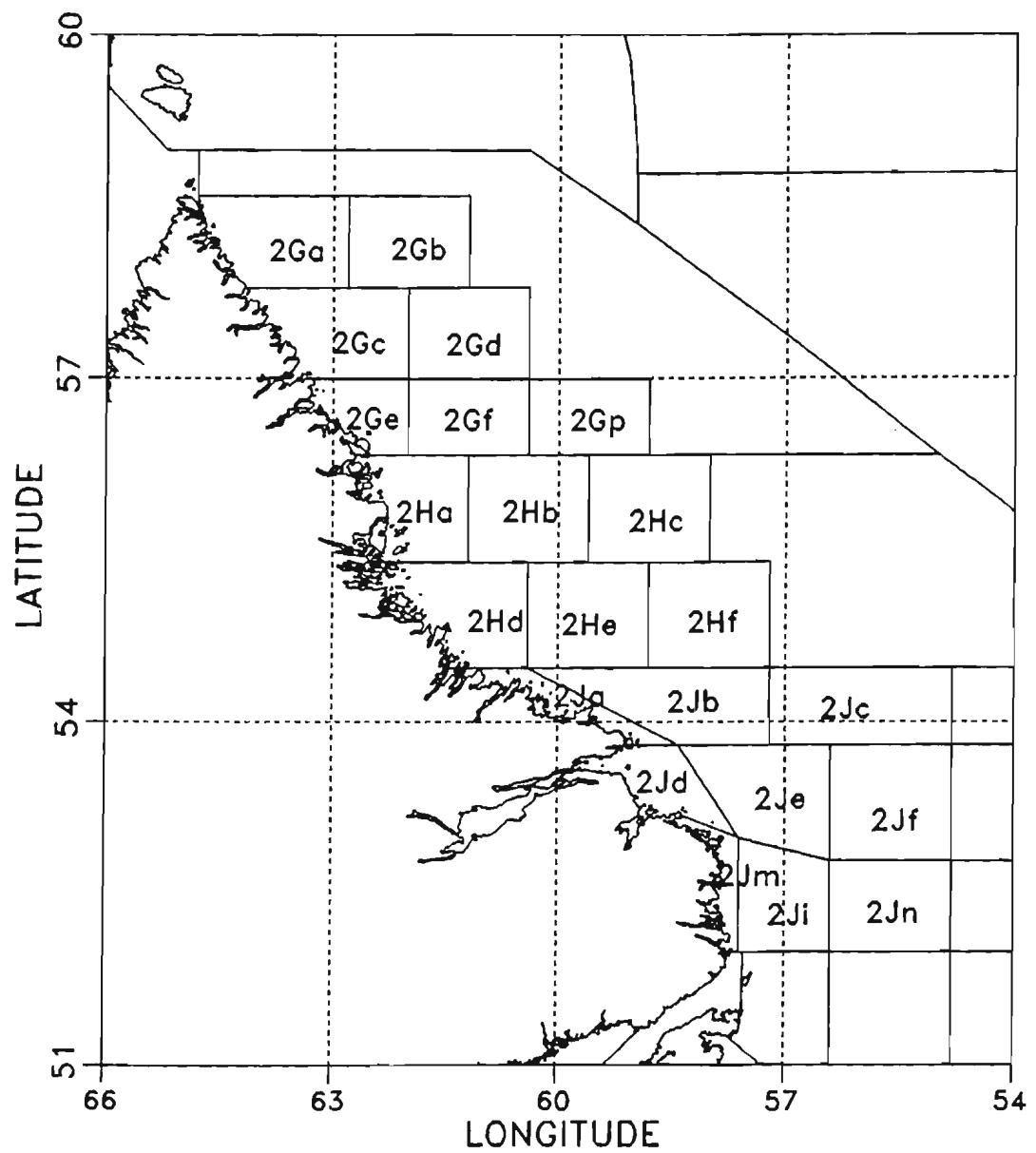


Figure 1b. Labrador inshore Unit Fishing Areas.

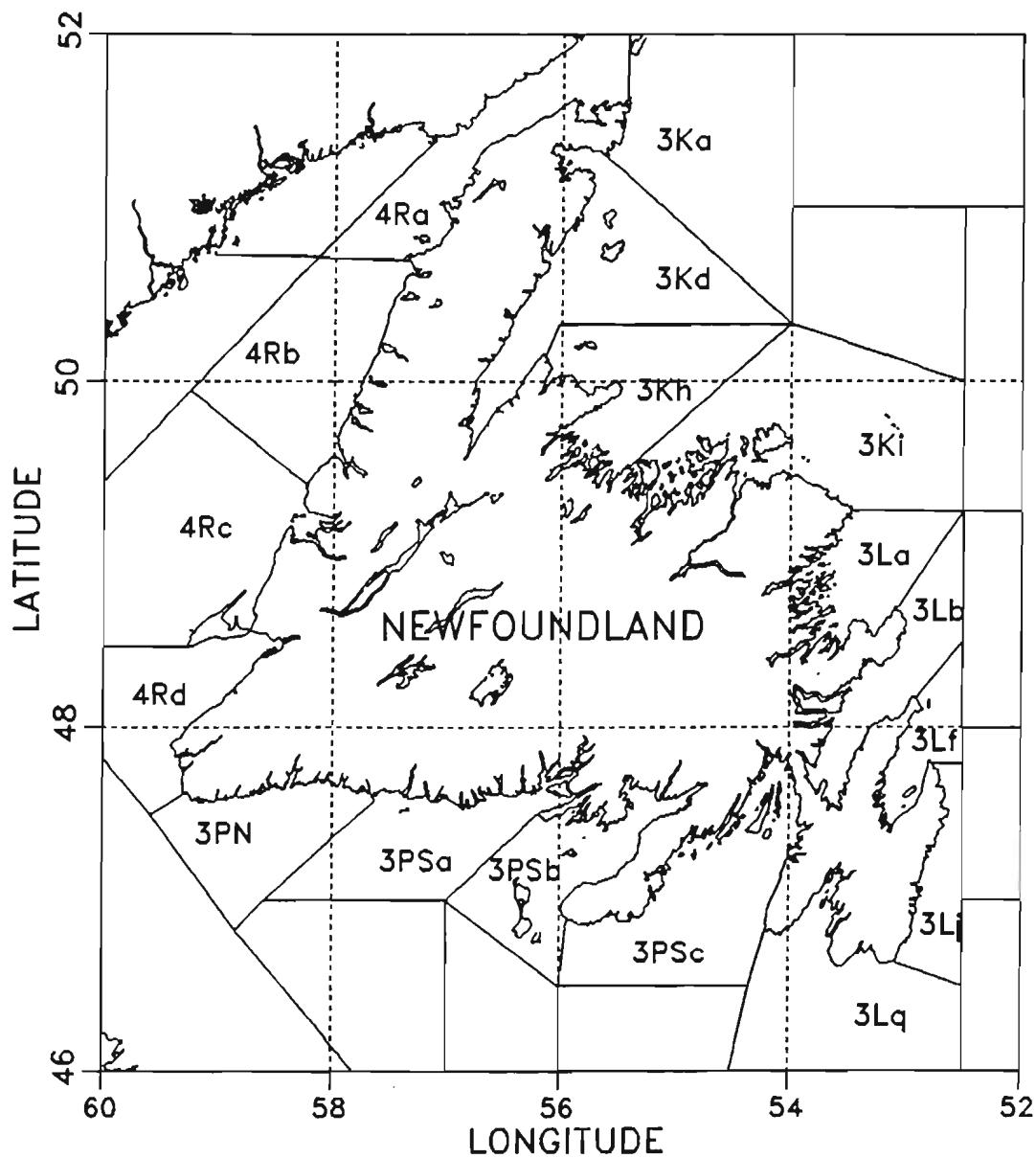


Figure 1a. Newfoundland inshore Unit Fishing Areas.

Appendix 1.

Time Series Plots and Monthly Statistics
from Unit Area 2H.

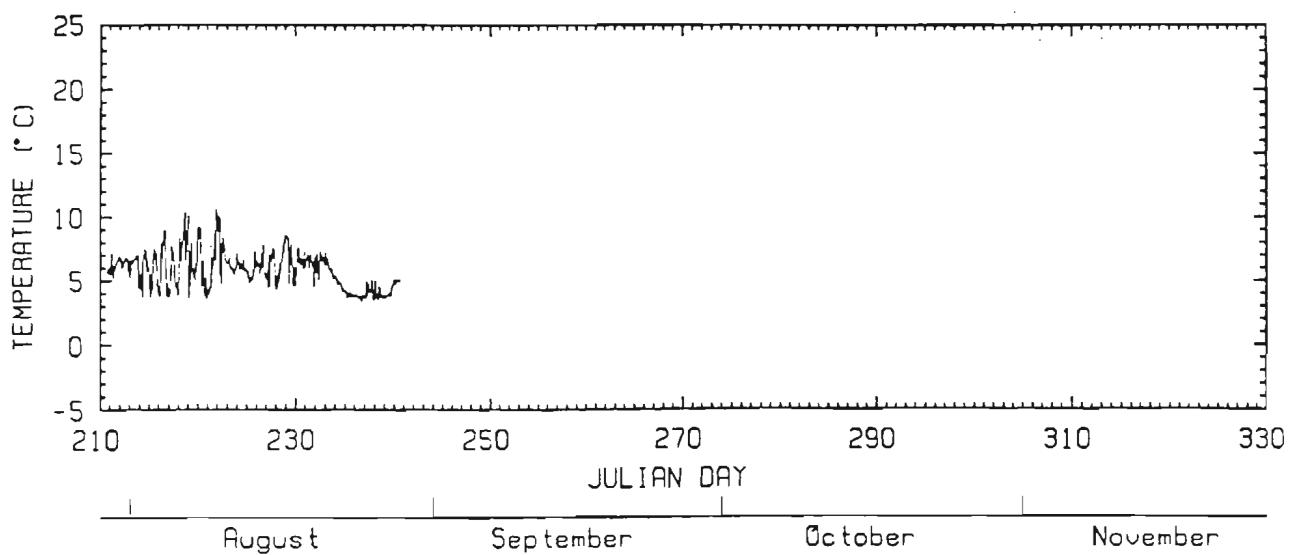
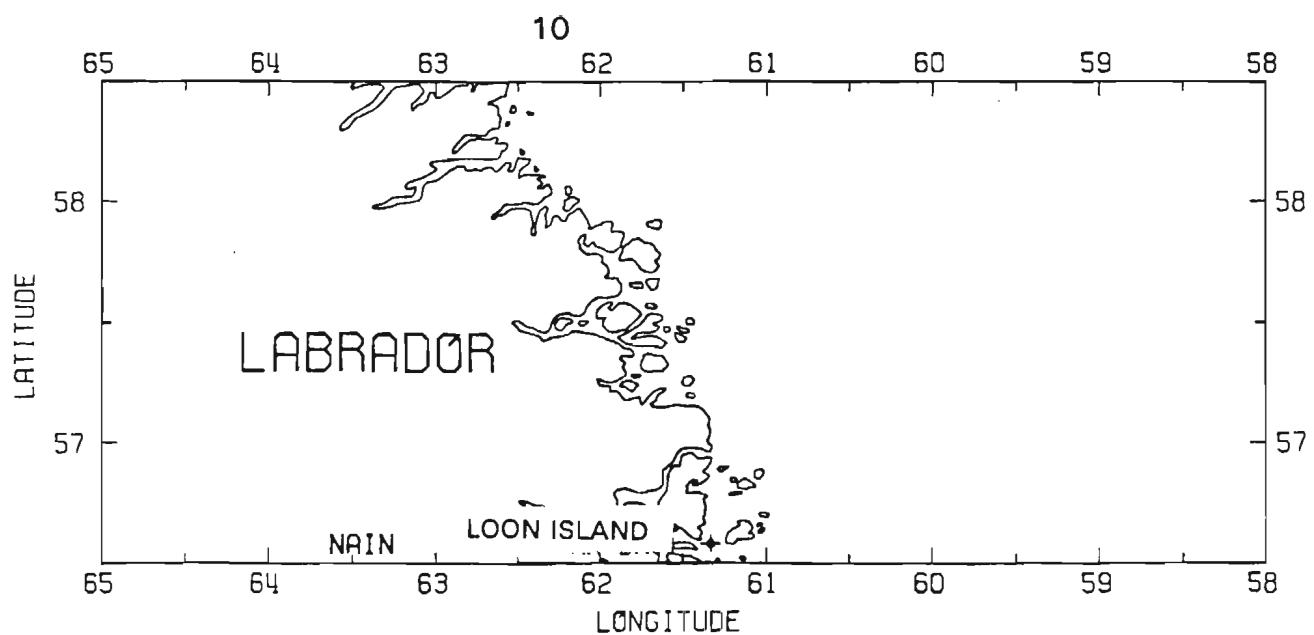


THERMOGRAPH⁹ DATA SUMMARY

STATION NAME: NAIN LOON ISLAND
STATION NUMBER: 154
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5477
LATITUDE: 56.58° N
LONGITUDE: 61.33° W
INSTRUMENT DEPTH: 3 m
WATER DEPTH: 10 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 29-JUL-1990 19:00 GMT
RECOVERY DATE/TIME: 28-AUG-1990 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUL-1990	5.15	211	7.10	211	6.27	0.44	18.4	6.4	53
AUG-1990	3.40	236	10.65	221	5.78	1.49	161.5	49.8	664
Total Period	3.40	236	10.65	221	5.81	1.44	179.9	56.3	717



Start: 29-JUL-1990

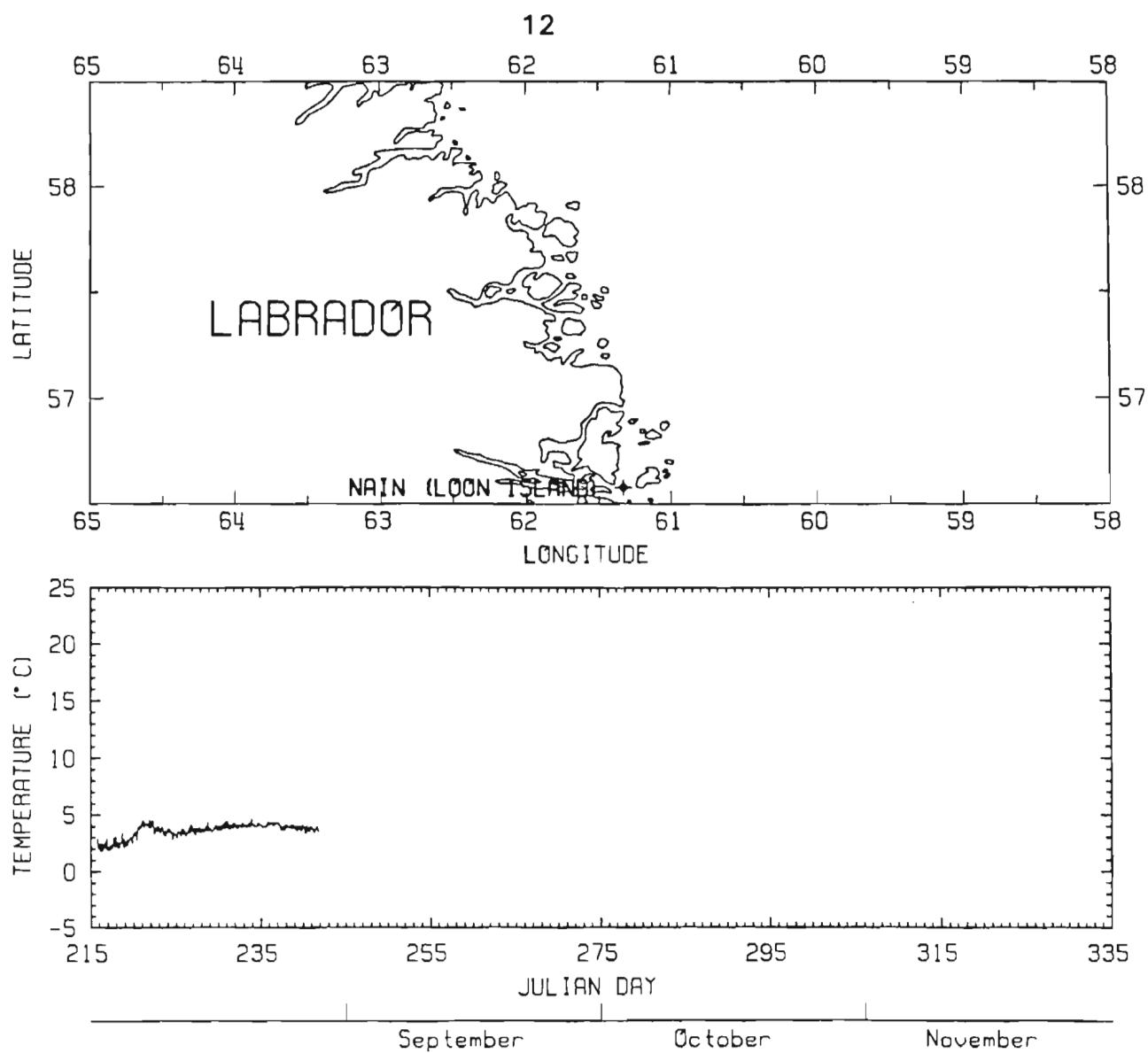
End: 28-AUG-1990

THERMOGRAPH DATA SUMMARY

STATION NAME: NAIN (LOON ISLAND)
STATION NUMBER: 154
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 4325
LATITUDE: 56.58° N
LONGITUDE: 61.33° W
INSTRUMENT DEPTH: 3 m
WATER DEPTH: 16 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 2-AUG-1992 19:00 GMT
RECOVERY DATE/TIME: 28-AUG-1992 21:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
AUG-1992	1.70	216	4.70	233	3.62	0.61	96.8	0.8	627
Total Period	1.70	216	4.70	233	3.62	0.61	96.8	0.8	627



Start: 2-AUG-1992

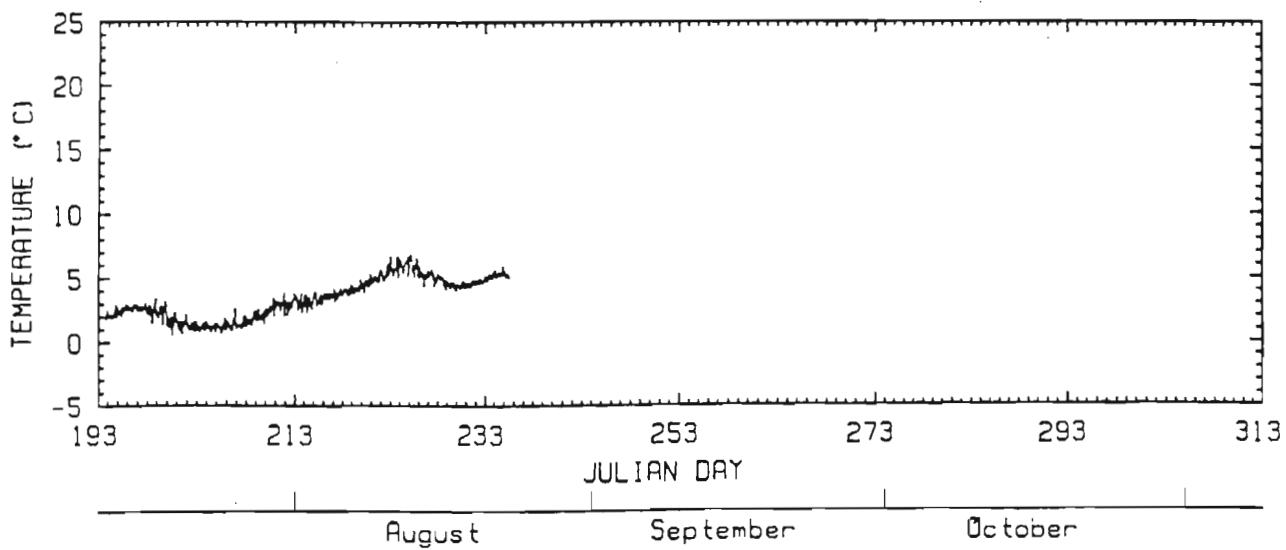
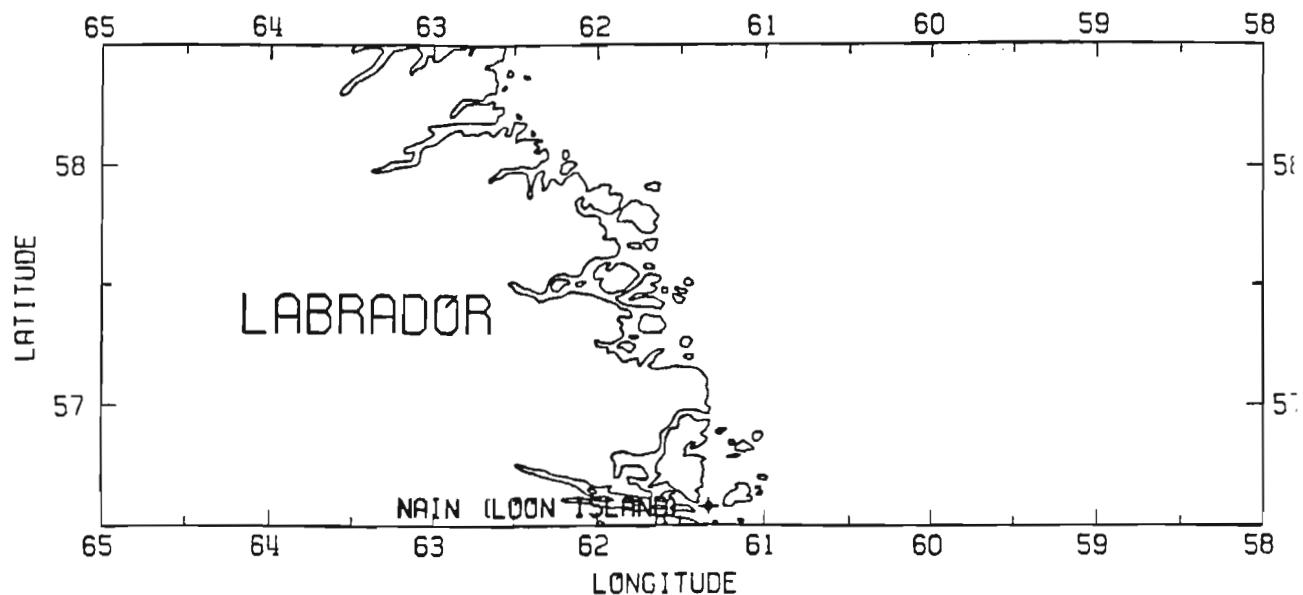
End: 28-AUG-1992

THERMOGRAPH DATA SUMMARY

STATION NAME: NAIN (LOON ISLAND)
STATION NUMBER: 154
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 7932
LATITUDE: 56.58° N
LONGITUDE: 61.33° W
INSTRUMENT DEPTH: 3 m
WATER DEPTH: 14 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 12-JUL-1993 19:00 GMT
RECOVERY DATE/TIME: 23-AUG-1993 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUL-1993	0.55	200	3.85	211	2.01	0.73	40.2	0.0	461
AUG-1993	2.25	213	6.90	225	4.65	0.92	107.1	18.3	543
Total Period	0.55	200	6.90	225	3.43	1.56	147.3	18.3	1004



Start: 12-JUL-1993

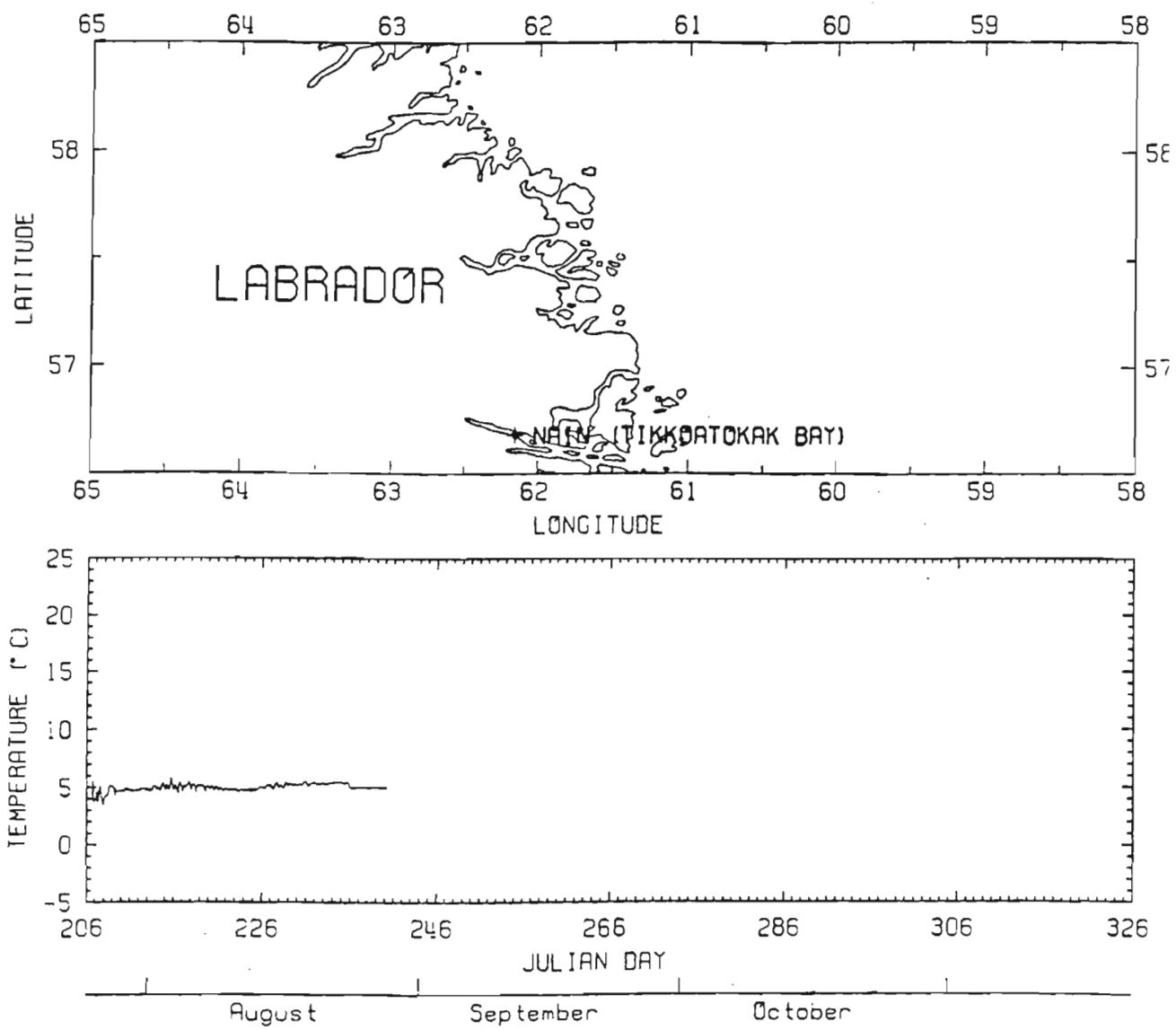
End: 23-AUG-1993

THERMOGRAPH DATA SUMMARY

STATION NAME: NAIN (TIKKOATOKAK BAY)
STATION NUMBER: 139
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 63420
LATITUDE: 56.68° N
LONGITUDE: 62.15° W
INSTRUMENT DEPTH: 3 m
WATER DEPTH: 10 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 25-JUL-1990 18:00 GMT
RECOVERY DATE/TIME: 28-AUG-1990 05:59 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUL-1990	3.47	207	5.57	206	4.62	0.40	32.1	4.1	77
AUG-1990	4.33	216	5.84	215	5.07	0.26	142.0	30.0	330
Total Period	3.47	207	5.84	215	4.98	0.34	174.1	34.1	407



Start: 25-JUL-1990

End: 28-AUG-1990

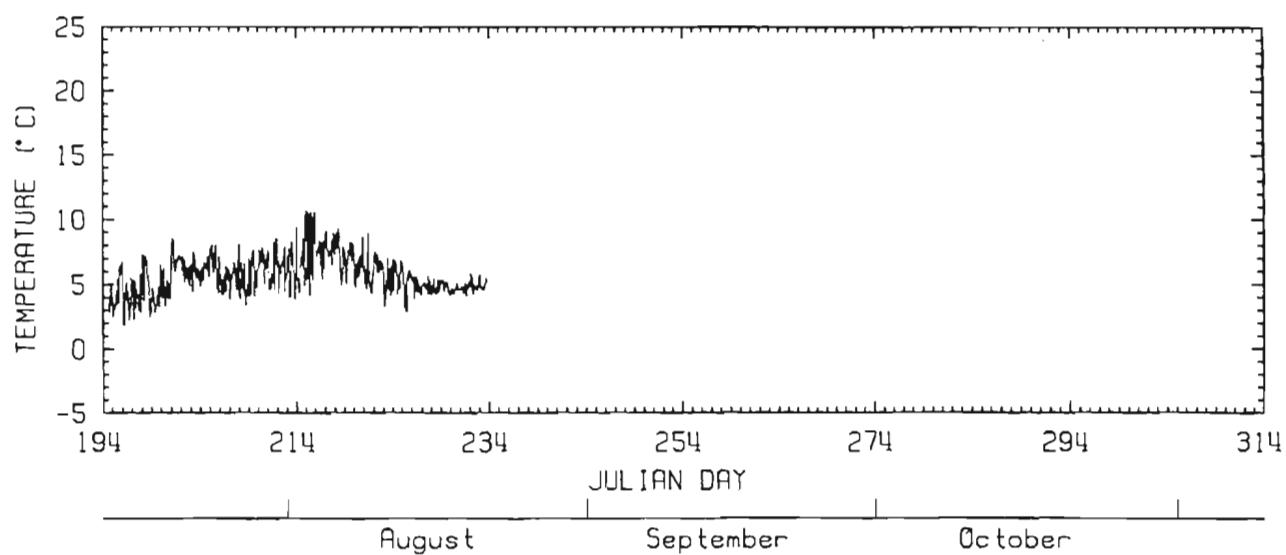
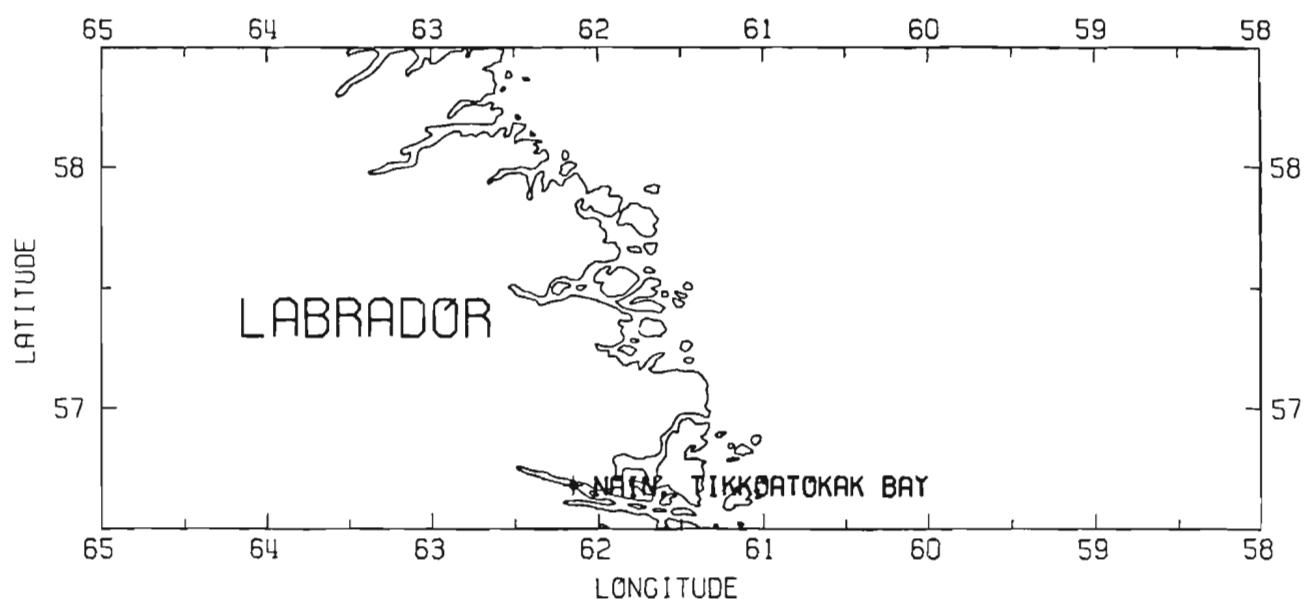
THERMOGRAPH DATA SUMMARY

STATION NAME: NAIN (TIKKOATOKAK BAY)
STATION NUMBER: 139
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3267
LATITUDE: 56.68° N
LONGITUDE: 62.15° W
INSTRUMENT DEPTH: 3 m
WATER DEPTH: 10 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 13-JUL-1991 16:00 GMT
RECOVERY DATE/TIME: 21-AUG-1991 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUL-1991	1.80	196	8.50	211	5.51	1.38	103.7	28.1	440
AUG-1991	2.85	225	10.65	215	5.91	1.51	124.0	40.0	499
Total Period	1.80	196	10.65	215	5.72	1.47	227.7	68.1	939

18



Start: 13-JUL-1991

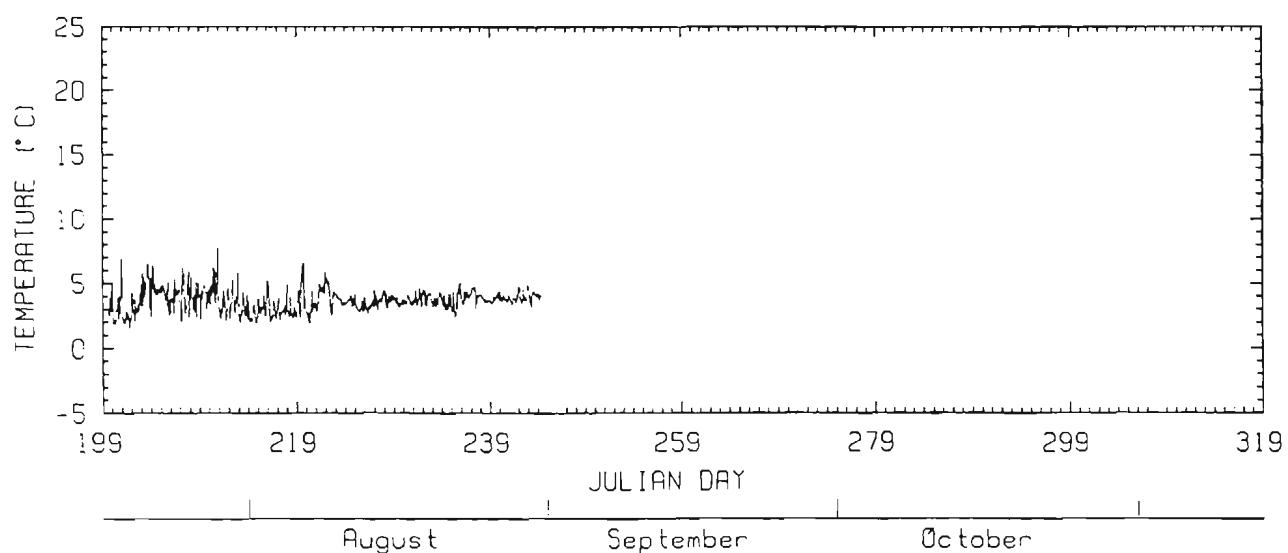
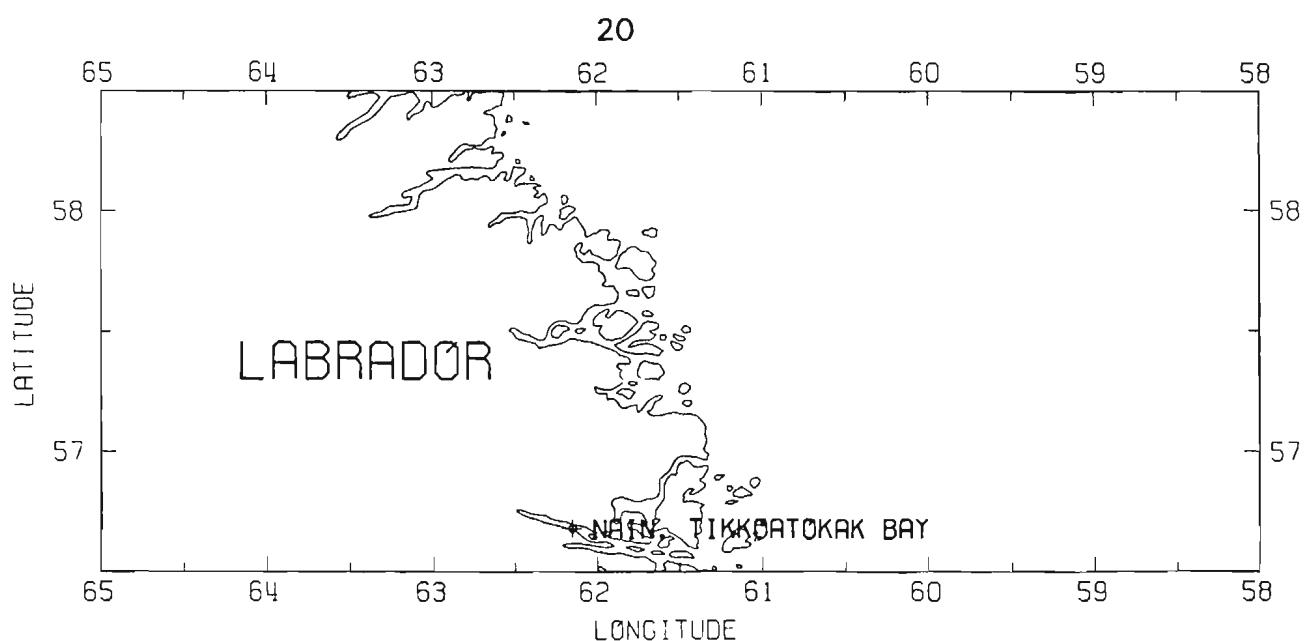
End: 21-AUG-1991

THERMOGRAPH DATA SUMMARY

STATION NAME: NAIN (TIKKOATOKAK BAY)
STATION NUMBER: 139
INSTRUMENT TYPE: Seamon UTR-A (Hugrun)
INSTRUMENT S/N: 4360
LATITUDE: 56.68° N
LONGITUDE: 62.15° W
INSTRUMENT DEPTH: 3 m
WATER DEPTH: 10 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 17-JUL-1992 16:00 GMT
RECOVERY DATE/TIME: 31-AUG-1992 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUL-1992	1.50	201	7.80	210	3.73	1.15	55.7	2.2	344
AUG-1992	1.80	214	6.60	219	3.60	0.70	111.8	0.7	732
Total Period	1.50	201	7.80	210	3.64	0.87	167.4	2.9	1076



Start: 17-JUL-1992

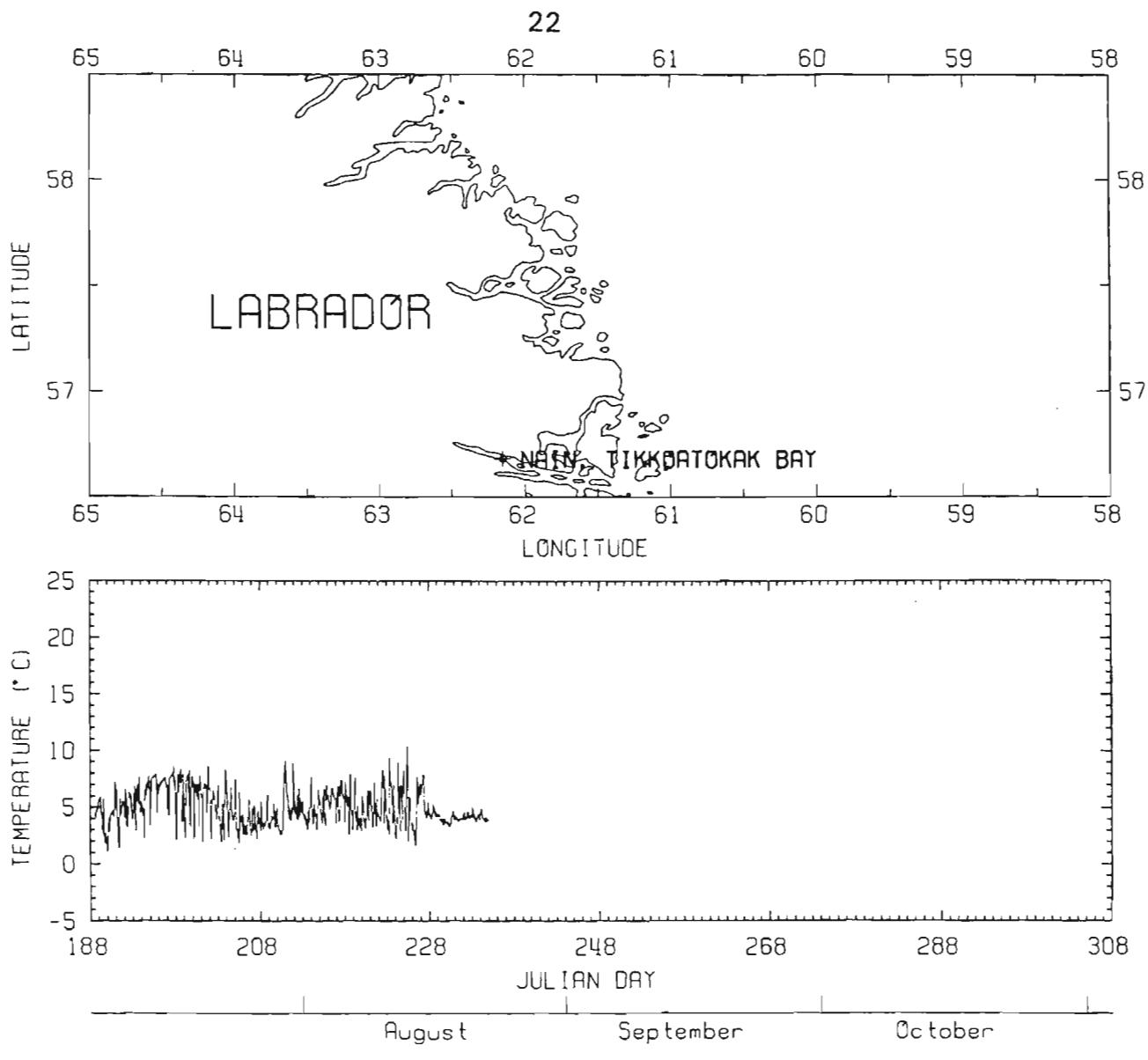
End: 31-AUG-1992

THERMOGRAPH DATA SUMMARY

STATION NAME: NAIN (TIKKOATOKAK BAY)
STATION NUMBER: 139
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 7936
LATITUDE: 56.68° N
LONGITUDE: 62.15° W
INSTRUMENT DEPTH: 3 m
WATER DEPTH: 40 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 7-JUL-1993 14:00 GMT
RECOVERY DATE/TIME: 23-AUG-1993 00:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUL-1993	1.00	190	9.15	211	5.08	1.79	126.8	28.1	586
AUG-1993	1.50	226	10.45	225	4.76	1.38	108.5	16.9	529
Total Period	1.00	190	10.45	225	4.93	1.62	235.4	45.0	1115



Start: 7-JUL-1993

End: 23-AUG-1993

Appendix 2. Time Series Plots and Monthly Statistics
from Unit Area 3Ka.

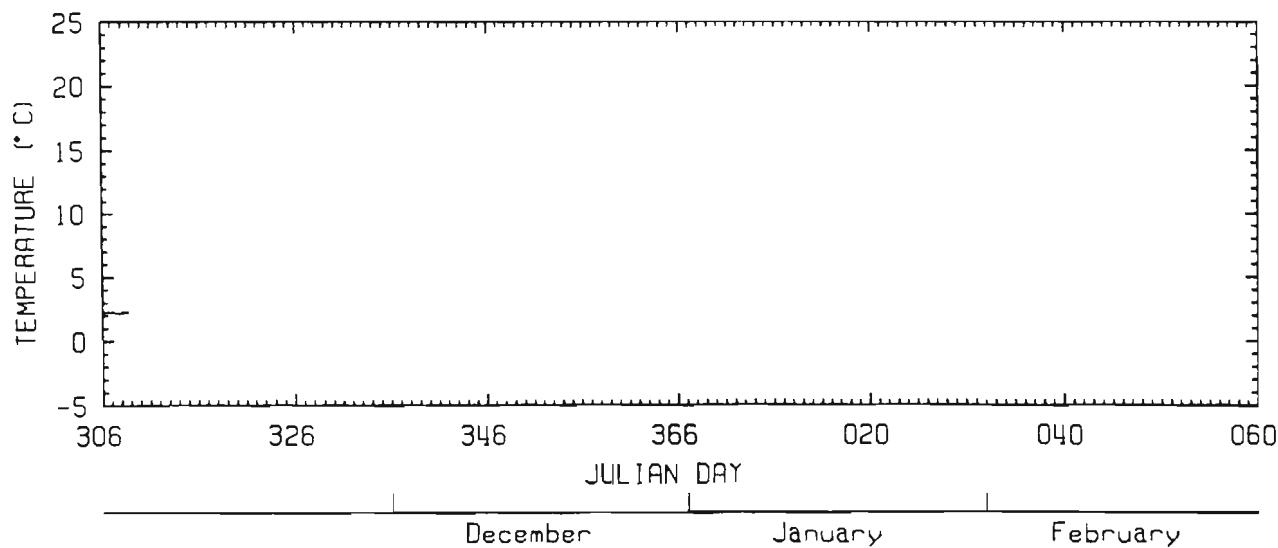
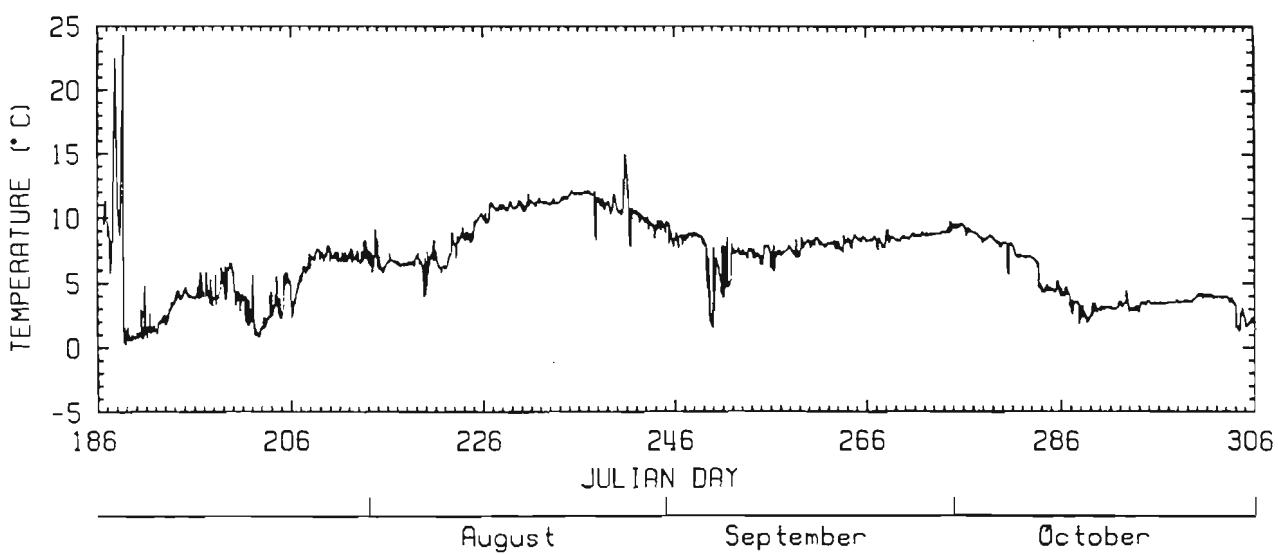
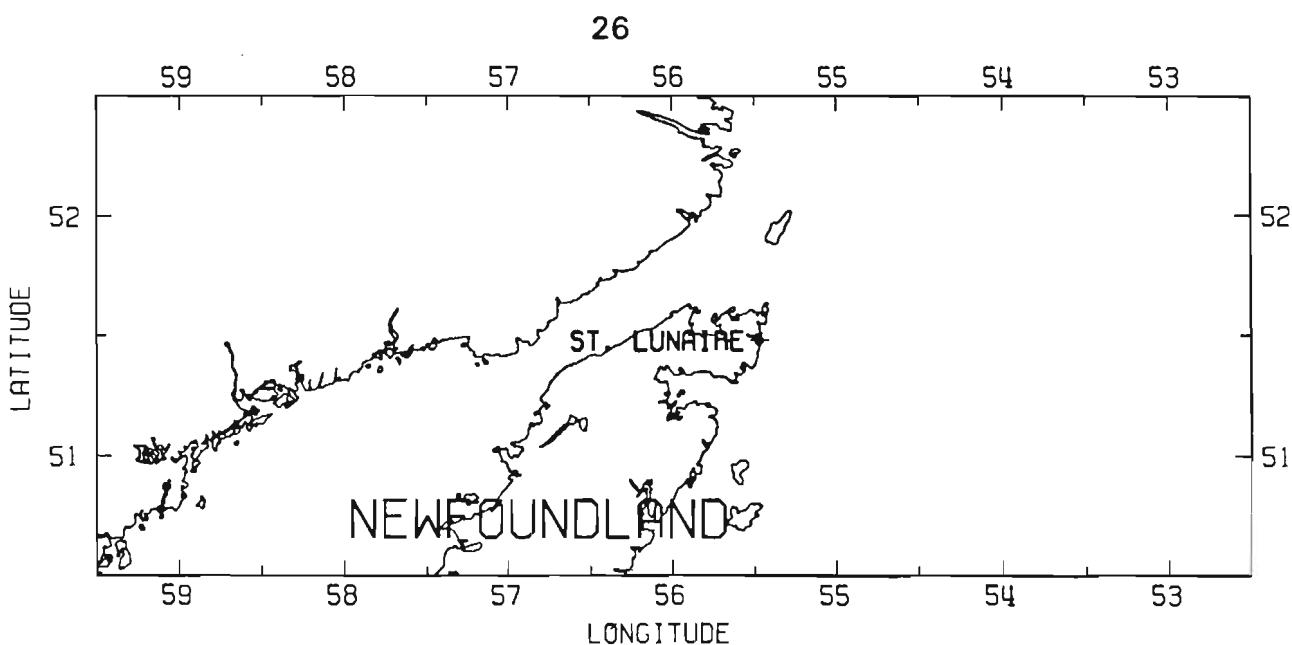


THERMOGRAPH DATA SUMMARY

STATION NAME: ST. LUNAIRE
STATION NUMBER: 176
INSTRUMENT TYPE: Seaman UTR-B (Hugrun)
INSTRUMENT S/N: 3287
LATITUDE: 51.48° N
LONGITUDE: 55.47° W
INSTRUMENT DEPTH: 13 m
WATER DEPTH: 13 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 4-JUL-1992 16:00 GMT
RECOVERY DATE/TIME: 3-NOV-1992 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-1992	0.20	188	24.30	188	4.83	3.29	139.0	44.6	656
AUG-1992	3.90	219	14.90	240	9.50	2.09	294.5	170.5	744
SEP-1992	1.50	250	9.70	245	7.87	1.20	236.1	116.1	720
OCT-1992	1.30	304	9.60	275	4.77	2.23	148.0	37.6	744
NOV-1992	2.20	306	2.30	306	2.27	0.05	6.8	0.0	66
Total Period	0.20	188	24.30	188	6.69	3.11	824.4	368.8	2930



Start: 4-JUL-1992

End: 3-NOV-1992

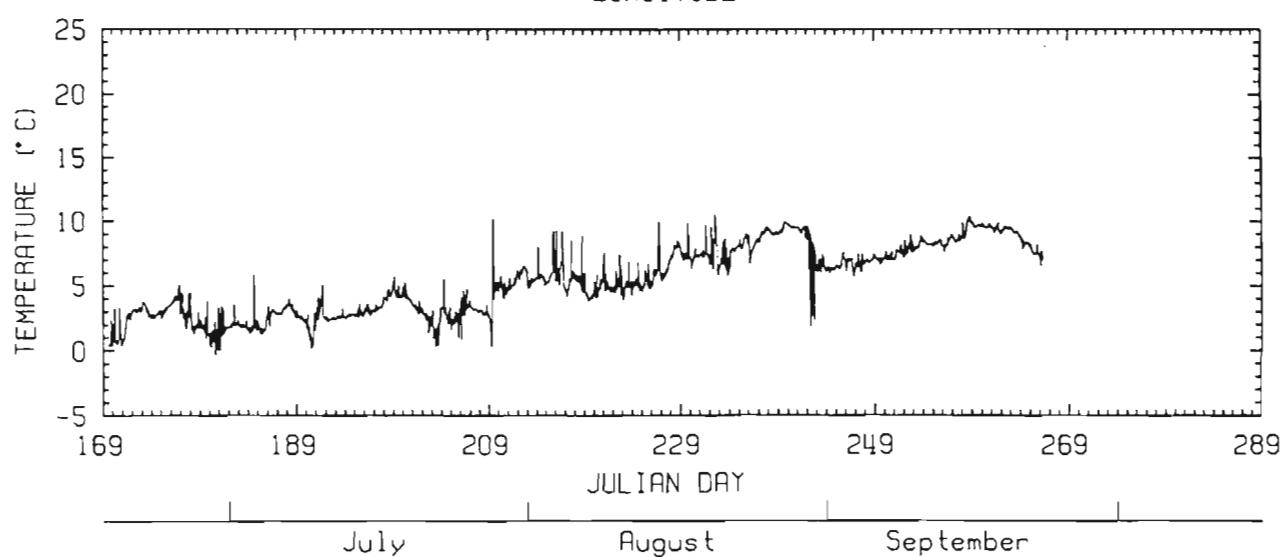
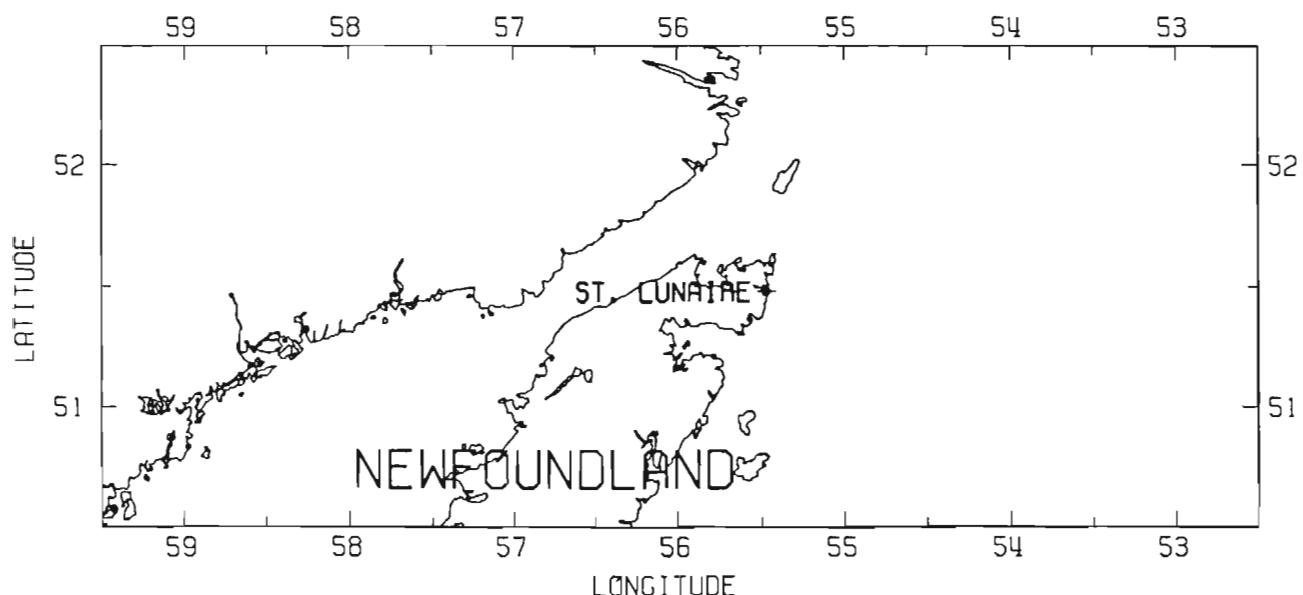
THERMOGRAPH DATA SUMMARY

STATION NAME: ST. LUNAIRE
STATION NUMBER: 176
INSTRUMENT TYPE: Seaman UTR-B (Hugrun)
INSTRUMENT S/N: 7943
LATITUDE: 51.48° N
LONGITUDE: 55.47° W
INSTRUMENT DEPTH: 11 m
WATER DEPTH: 11 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 18-JUN-1993 13:00 GMT
RECOVERY DATE/TIME: 23-SEP-1993 09:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1993	-0.40	180	5.10	176	2.32	1.12	29.2	0.0	299
JUL-1993	0.10	190	10.20	209	3.11	1.25	96.3	5.1	744
AUG-1993	1.90	242	10.50	232	6.80	1.72	210.7	86.7	744
SEP-1993	5.70	246	10.30	258	8.04	1.09	184.5	92.5	538
Total Period	-0.40	180	10.50	232	5.33	2.65	520.8	184.4	2325

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Start: 18-JUN-1993

End: 23-SEP-1993

Appendix 3. Time Series Plots and Monthly Statistics
from Unit Area 3Kd.

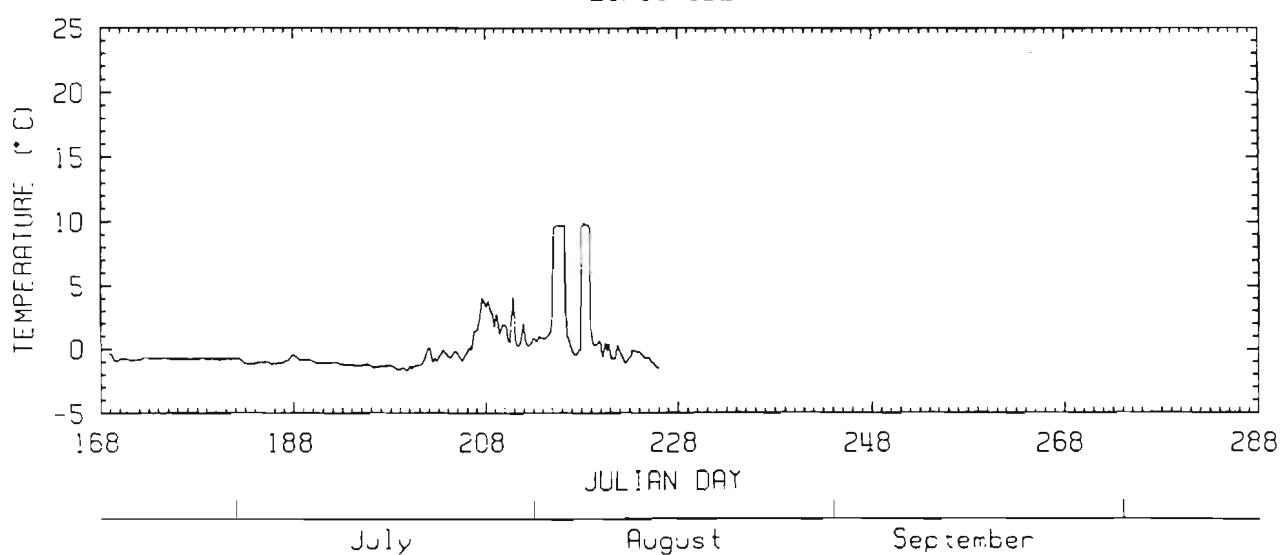
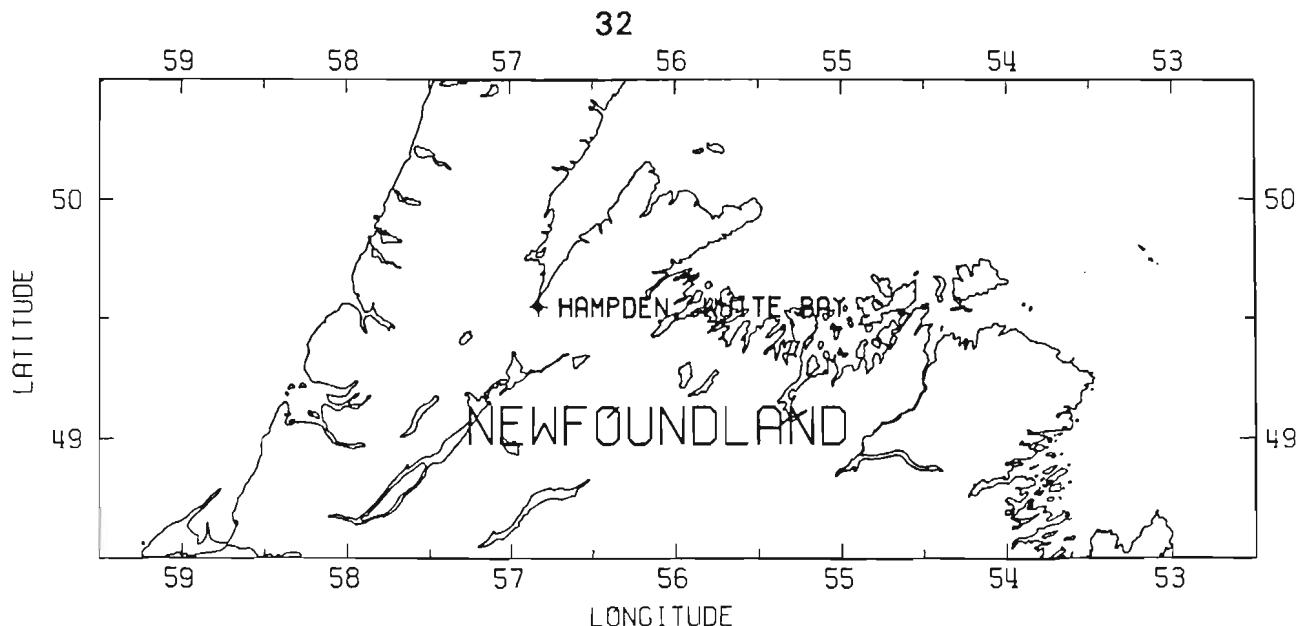


THERMOGRAPH DATA SUMMARY

STATION NAME: HAMPDEN, WHITE BAY
STATION NUMBER: 179
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 63326
LATITUDE: 49.55° N
LONGITUDE: 56.83° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 18 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 17-JUN-1991 19:00 GMT
RECOVERY DATE/TIME: 14-AUG-1991 02:26 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1991	-0.96	169	-0.36	168	-0.76	0.11	0.0	0.0	52
JUL-1991	-1.66	199	4.20	210	-0.04	1.51	11.8	0.0	133
AUG-1991	-1.47	226	9.90	218	2.09	3.82	25.3	10.4	80
Total Period	-1.66	199	9.90	218	0.46	2.60	37.1	10.4	265



Start: 17-JUN-1991

End: 14-AUG-1991

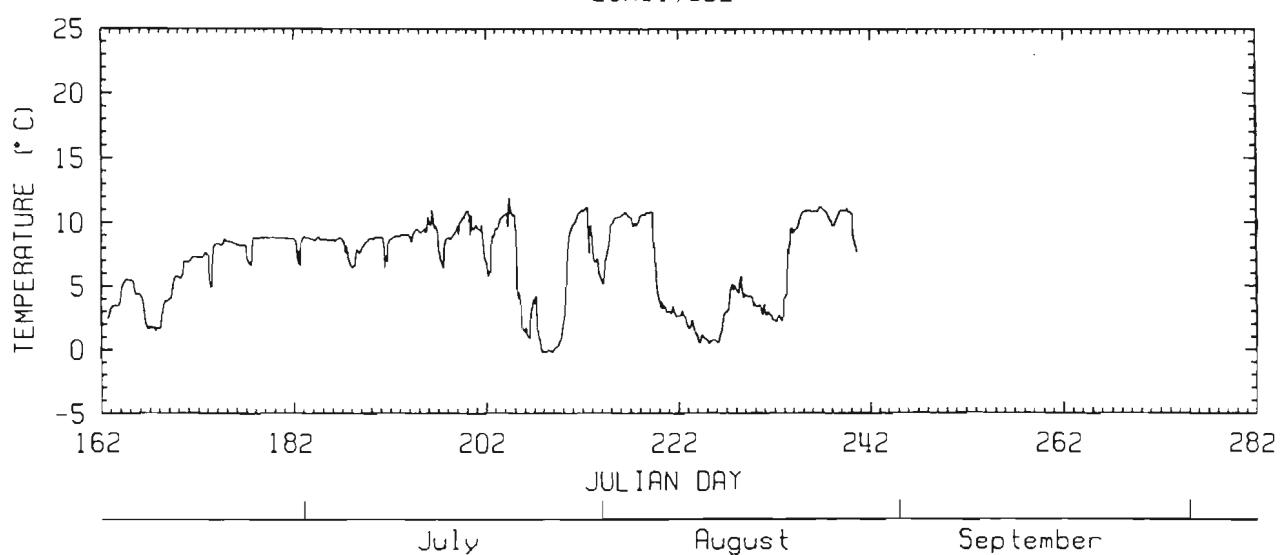
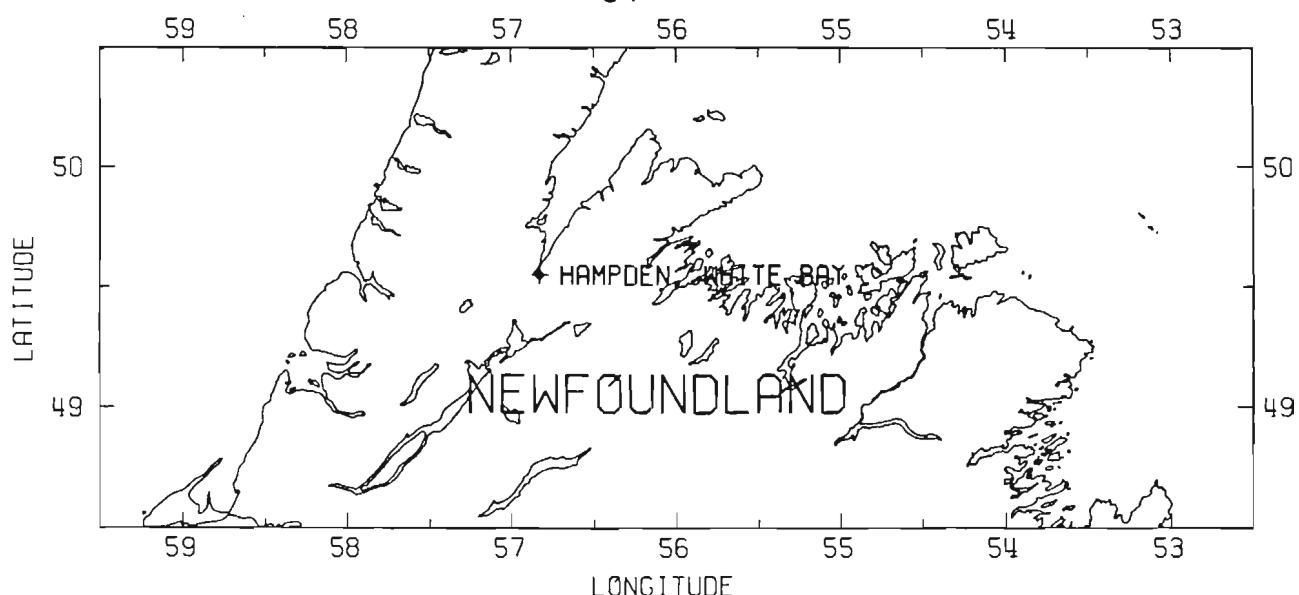
THERMOGRAPH DATA SUMMARY

STATION NAME: HAMPDEN, WHITE BAY
STATION NUMBER: 179
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 62882
LATITUDE: 49.55° N
LONGITUDE: 56.83° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 70 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 10-JUN-1992 15:00 GMT
RECOVERY DATE/TIME: 27-AUG-1992 14:29 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1992	1.49	167	8.87	179	6.31	2.36	131.8	54.4	186
JUL-1992	-0.23	208	11.93	204	7.54	3.00	238.4	125.8	317
AUG-1992	0.47	225	11.21	236	6.47	3.74	171.5	81.4	310
Total Period	-0.23	208	11.93	204	6.85	3.23	541.7	261.6	813

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Start: 10-JUN-1992

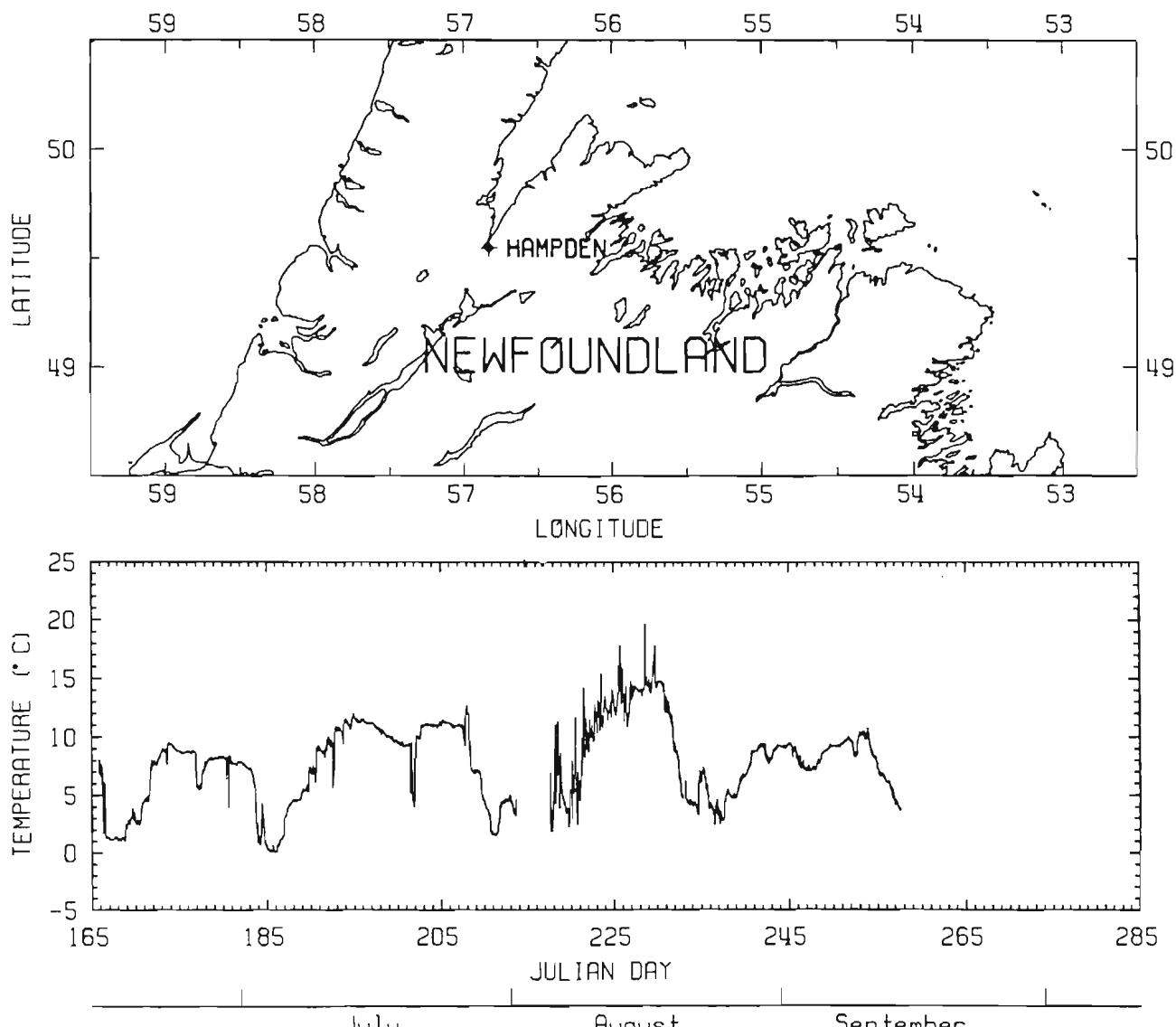
End: 27-AUG-1992

THERMOGRAPH DATA SUMMARY

STATION NAME: HAMPDEN, WHITE BAY
STATION NUMBER: 179
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3260
LATITUDE: 49.55° N
LONGITUDE: 56.83° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 70 m
SAMPLING INTERVAL: 30 min.
DEPLOYMENT DATE/TIME: 14-JUN-1993 21:00 GMT
RECOVERY DATE/TIME: 14-SEP-1993 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-1993	1.00	168	9.60	173	6.22	2.83	106.8	46.5	774
JUL-1993	0.10	185	12.70	207	7.68	3.55	237.9	125.6	1488
AUG-1993	1.90	217		216	10.06	5.27	311.8	188.4	1488
SEP-1993	3.70	257	10.70	253	8.20	1.57	113.3	57.3	655
Total Period	0.10	185		216	8.30	4.17	769.9	417.8	4405



Start: 14-JUN-1993

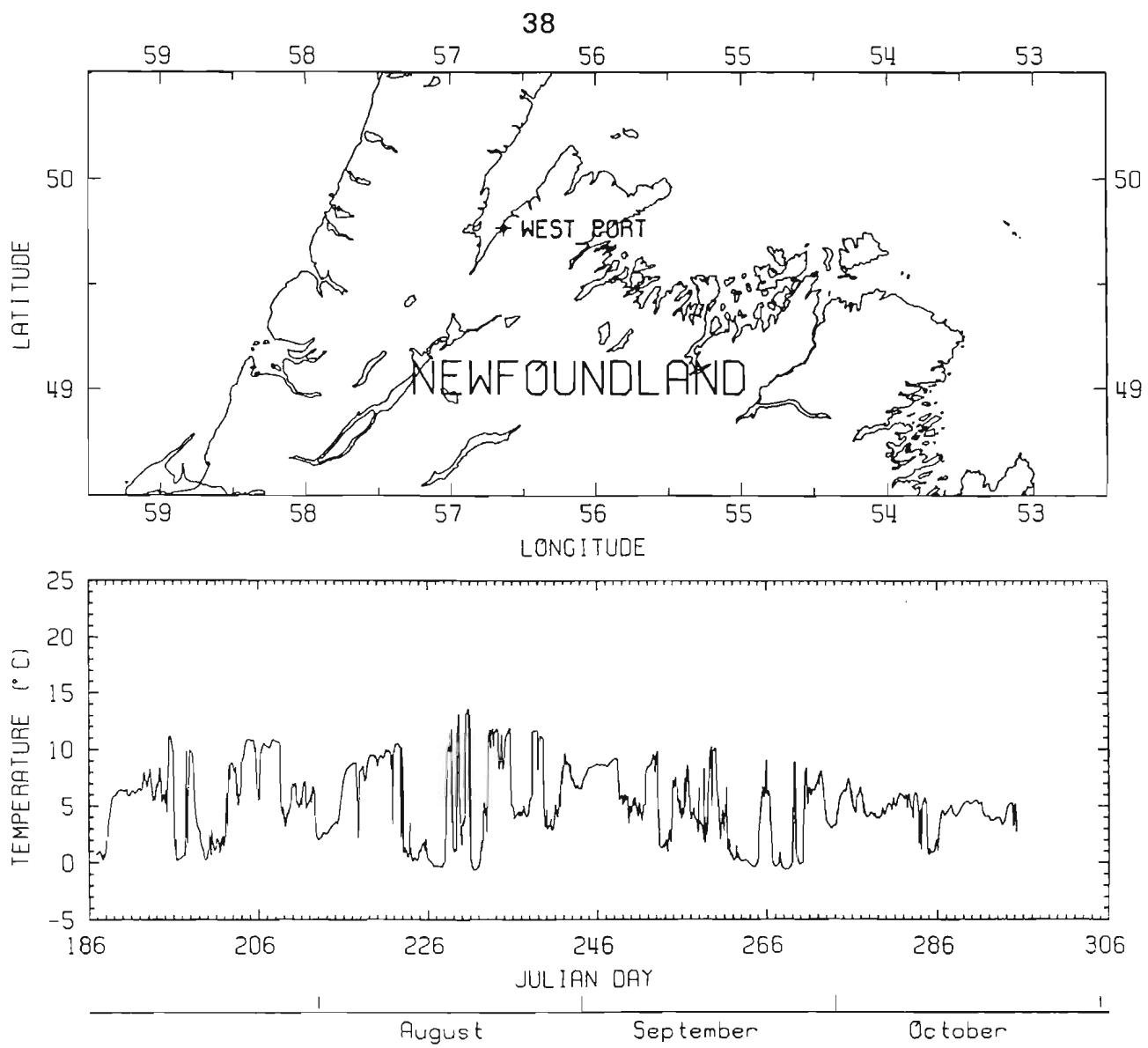
End: 14-SEP-1993

THERMOGRAPH DATA SUMMARY

STATION NAME: WEST PORT
STATION NUMBER: 105
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 61654
LATITUDE: 49.77° N
LONGITUDE: 56.63° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 15 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 5-JUL-1991 21:00 GMT
RECOVERY DATE/TIME: 22-OCT-1991 06:21 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUL-1991	0.18	187	11.24	195	5.70	3.02	150.5	58.7	225
AUG-1991	-0.64	231	13.68	230	5.63	4.10	173.8	74.2	244
SEP-1991	-0.60	268	10.31	259	4.75	2.93	143.8	47.7	228
OCT-1991	0.68	285	7.44	275	4.53	1.38	100.4	16.5	129
Total Period	-0.64	231	13.68	230	5.24	3.22	568.5	197.2	826



Start: 5-JUL-1991

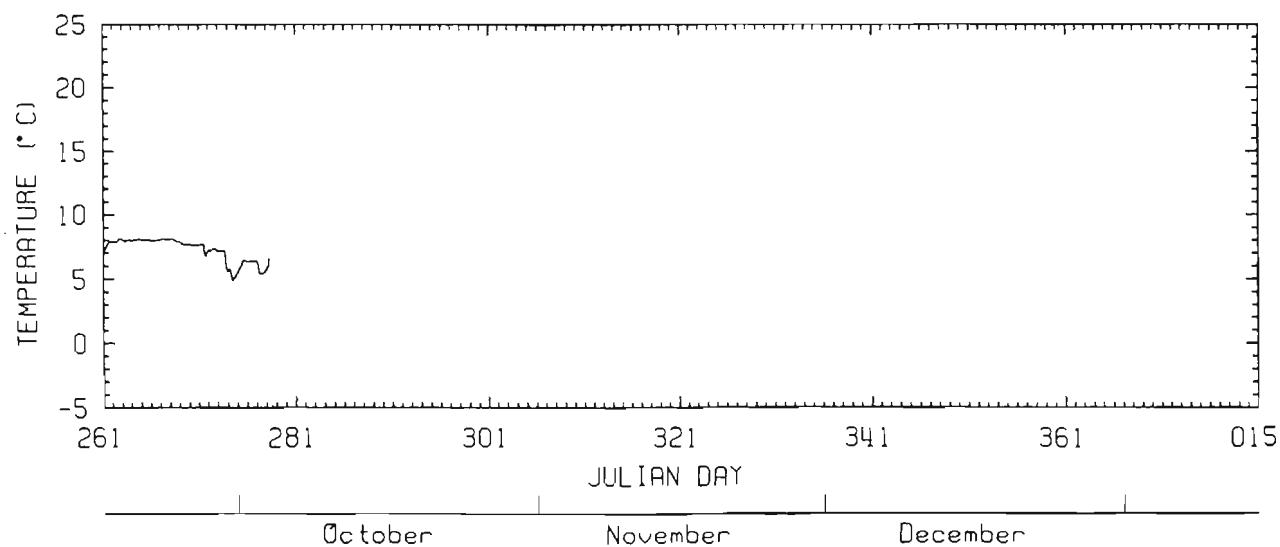
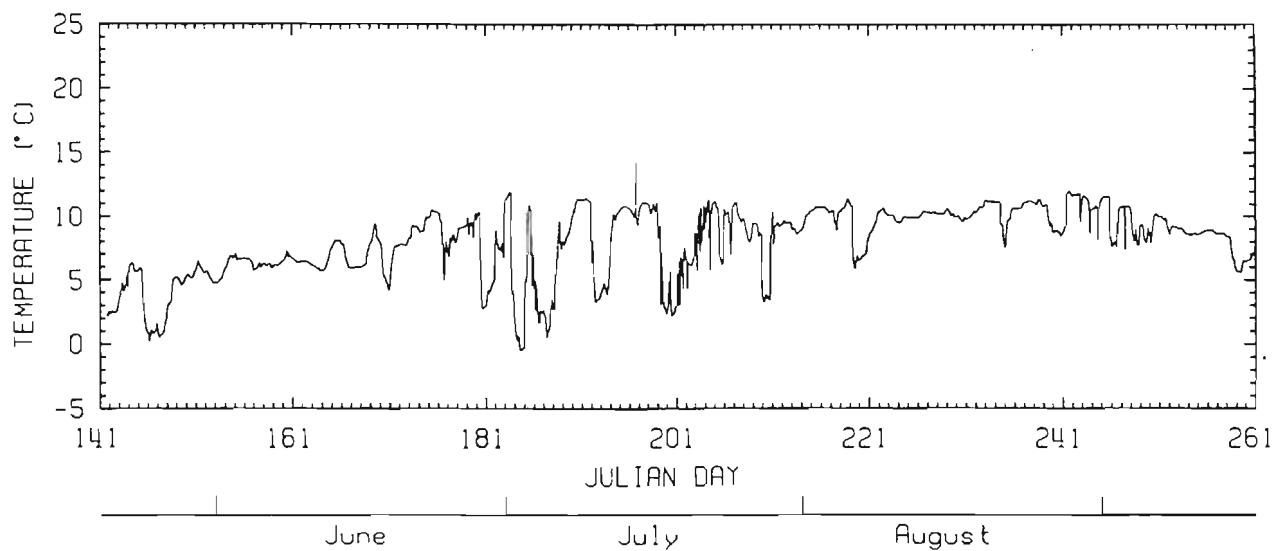
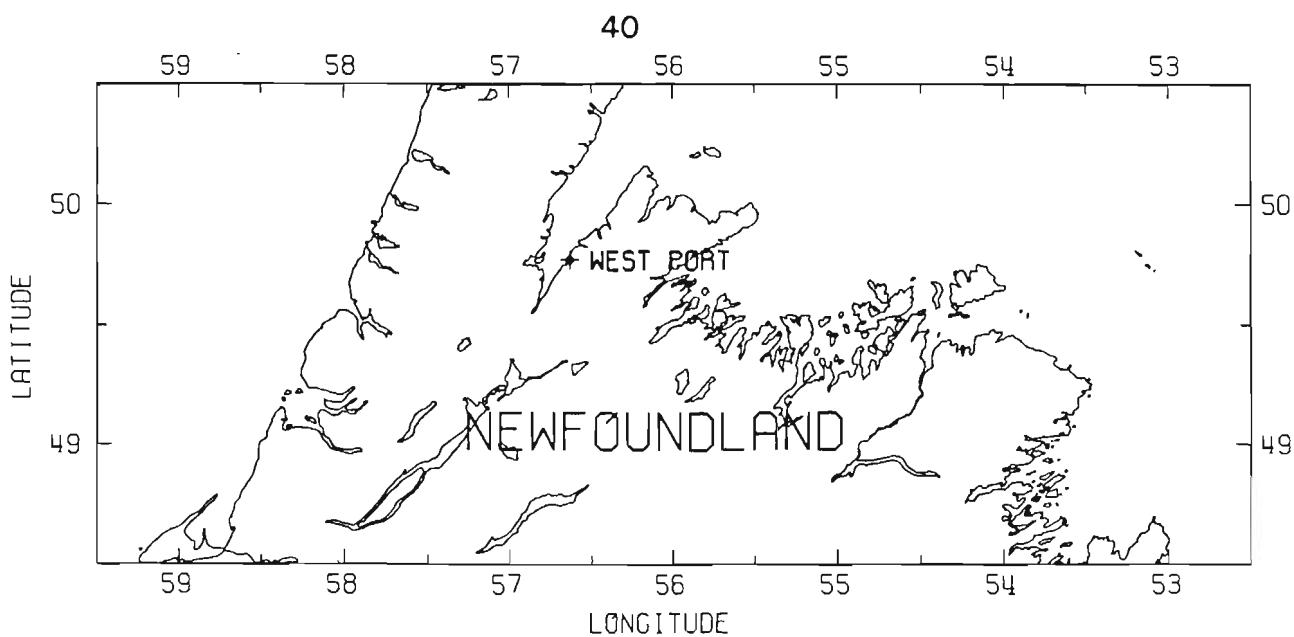
End: 22-OCT-1991

THERMOGRAPH DATA SUMMARY

STATION NAME: WEST PORT
STATION NUMBER: 105
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 63292
LATITUDE: 49.77° N
LONGITUDE: 56.63° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 15 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 20-MAY-1992 18:28 GMT
RECOVERY DATE/TIME: 4-OCT-1992 06:28 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-1992	0.20	146	6.45	151	3.94	1.85	46.4	7.6	140
JUN-1992	2.75	180	11.10	182	7.12	1.59	213.3	93.3	371
JUL-1992	-0.43	184	14.32	196	7.52	3.17	237.6	120.7	452
AUG-1992	5.86	219	12.03	241	10.12	1.12	313.9	189.9	395
SEP-1992	4.85	274	11.64	245	8.25	1.36	245.4	125.4	323
OCT-1992	5.36	277	6.56	278	6.01	0.39	24.0	8.0	41
Total Period	-0.43	184	14.32	196	7.84	2.60	1080.6	544.8	1722



Start: 20-MAY-1992

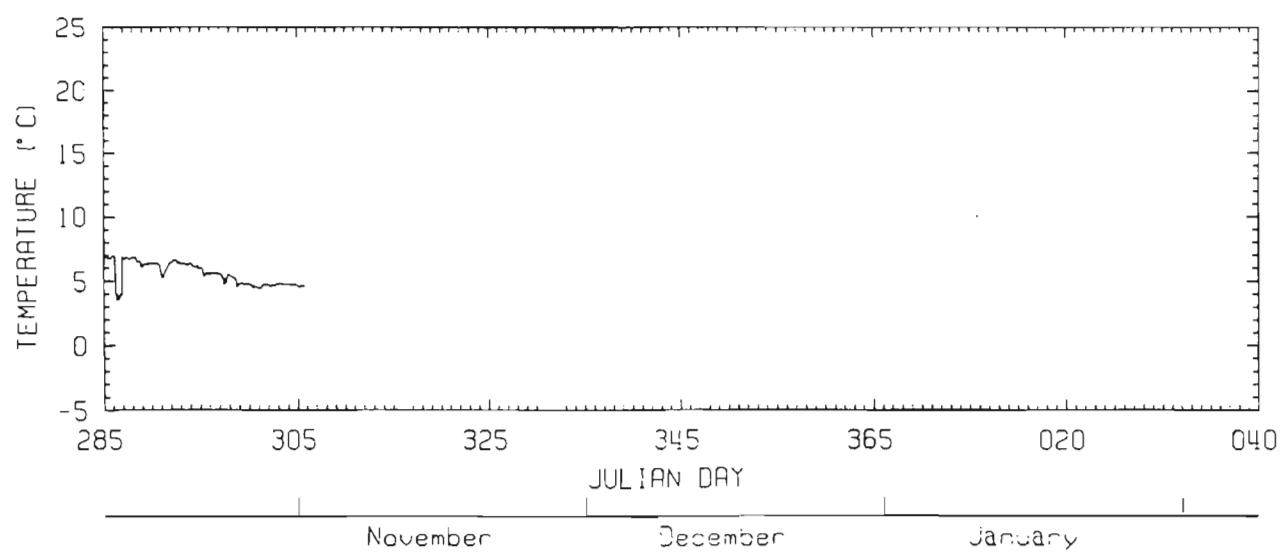
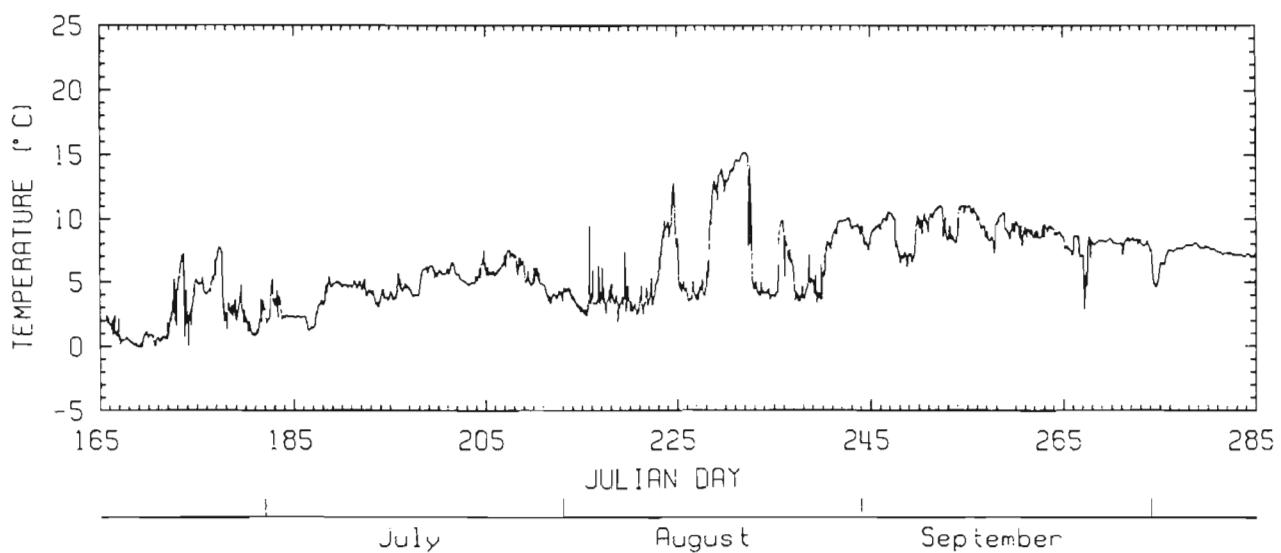
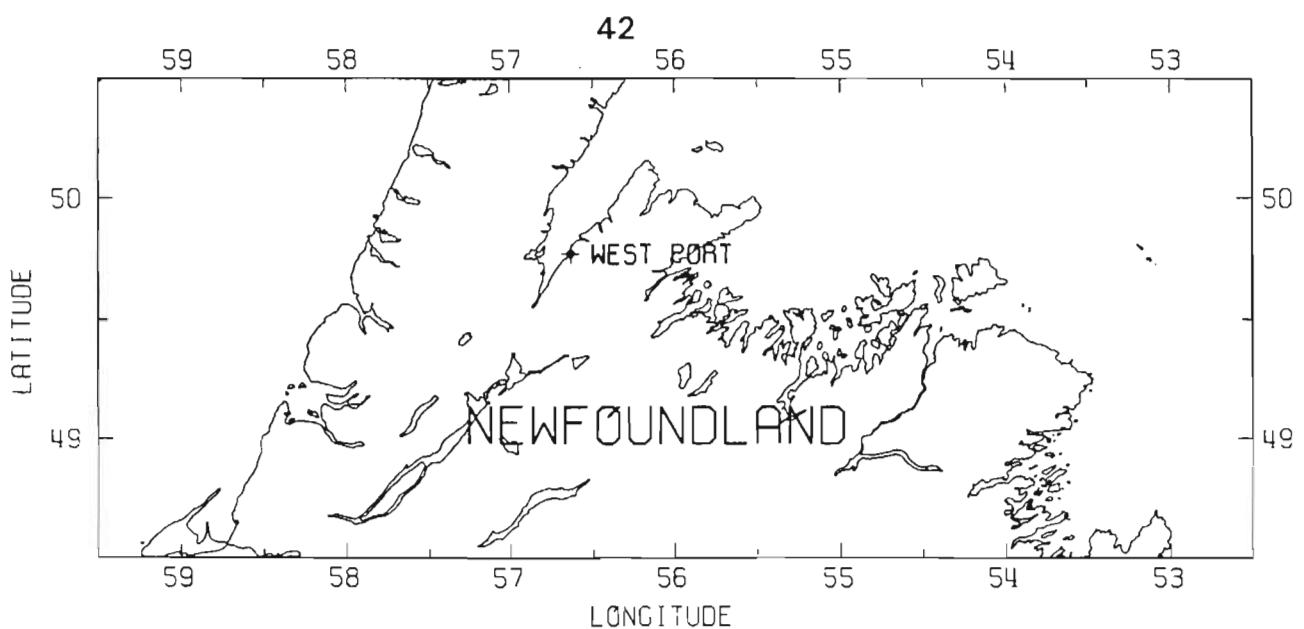
End: 4-OCT-1992

THERMOGRAPH DATA SUMMARY

STATION NAME: WEST PORT
STATION NUMBER: 105
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 7941
LATITUDE: 49.77° N
LONGITUDE: 56.63° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 15 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 14-JUN-1993 16:00 GMT
RECOVERY DATE/TIME: 1-NOV-1993 19:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1993	-0.15	169	7.75	177	2.44	2.03	41.3	4.7	392
JUL-1993	1.20	186	7.60	207	4.60	1.38	142.5	27.8	744
AUG-1993	1.90	218	15.20	232	6.49	3.58	201.1	80.6	744
SEP-1993	2.75	267	11.10	254	8.83	1.17	264.8	144.8	720
OCT-1993	3.45	286	8.15	278	6.19	1.13	191.9	67.9	744
NOV-1993	4.55	305	4.70	305	4.63	0.03	4.6	0.6	20
Total Period	-0.15	169	15.20	232	6.02	2.83	846.2	326.4	3364



Start: 14-JUN-1993

End: 1-NOV-1993

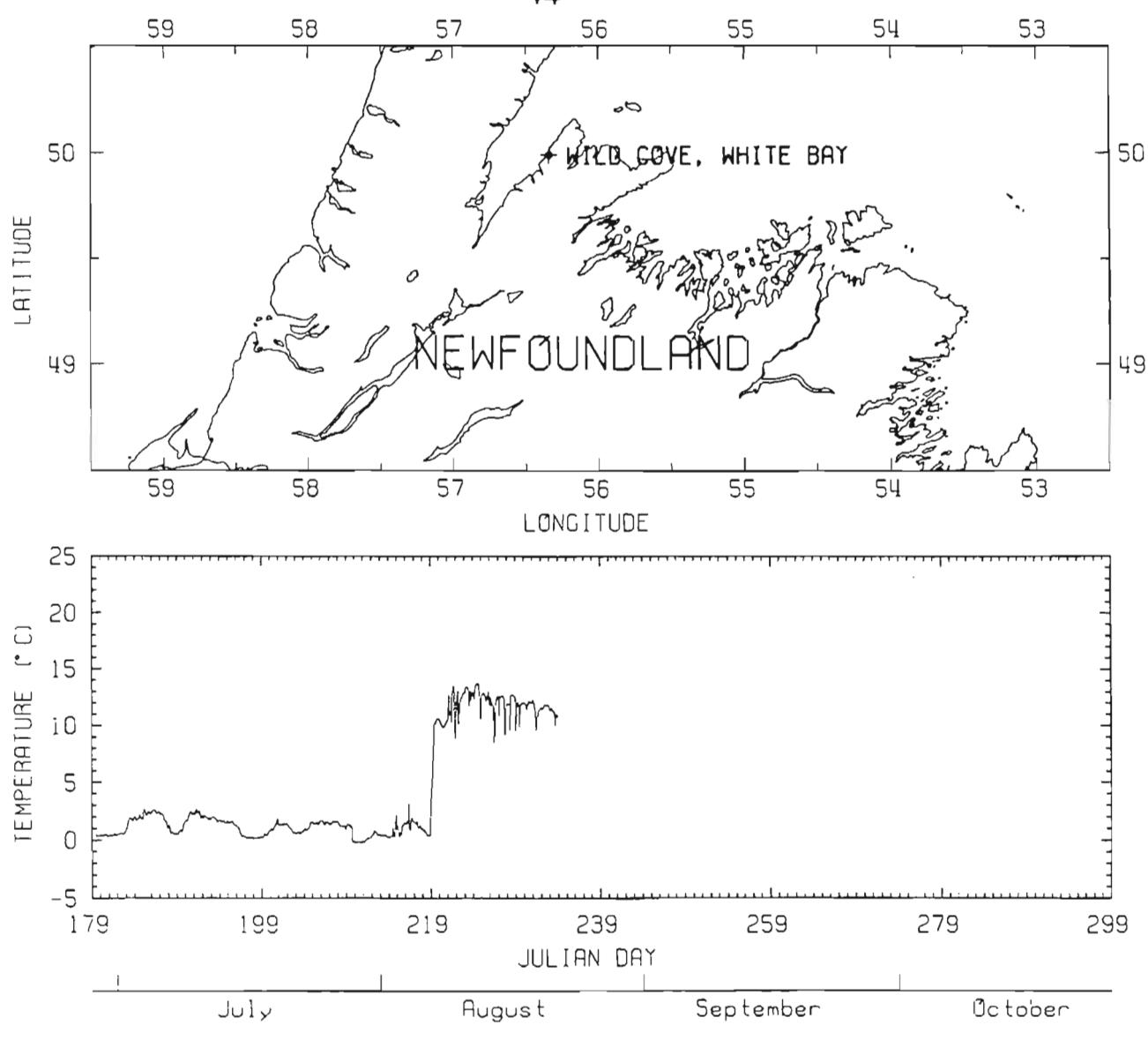
THERMOGRAPH DATA SUMMARY

STATION NAME: WILD COVE, WHITE BAY
STATION NUMBER: 186
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 63424
LATITUDE: 49.99° N
LONGITUDE: 56.34° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 33 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 28-JUN-1990 12:00 GMT
RECOVERY DATE/TIME: 18-AUG-1990 09:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1990	0.30	179	0.58	179	0.41	0.06	1.2	0.0	31
JUL-1990	-0.24	210	2.71	185	1.23	0.71	37.4	0.0	370
AUG-1990	0.19	214	13.73	224	8.93	4.80	190.6	121.2	303
Total Period	-0.24	210	13.73	224	4.51	5.00	229.2	121.2	704

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Start: 28-JUN-1990

End: 18-AUG-1990

Appendix 4.

Time Series Plots and Monthly Statistics
from Unit Area 3Kh.



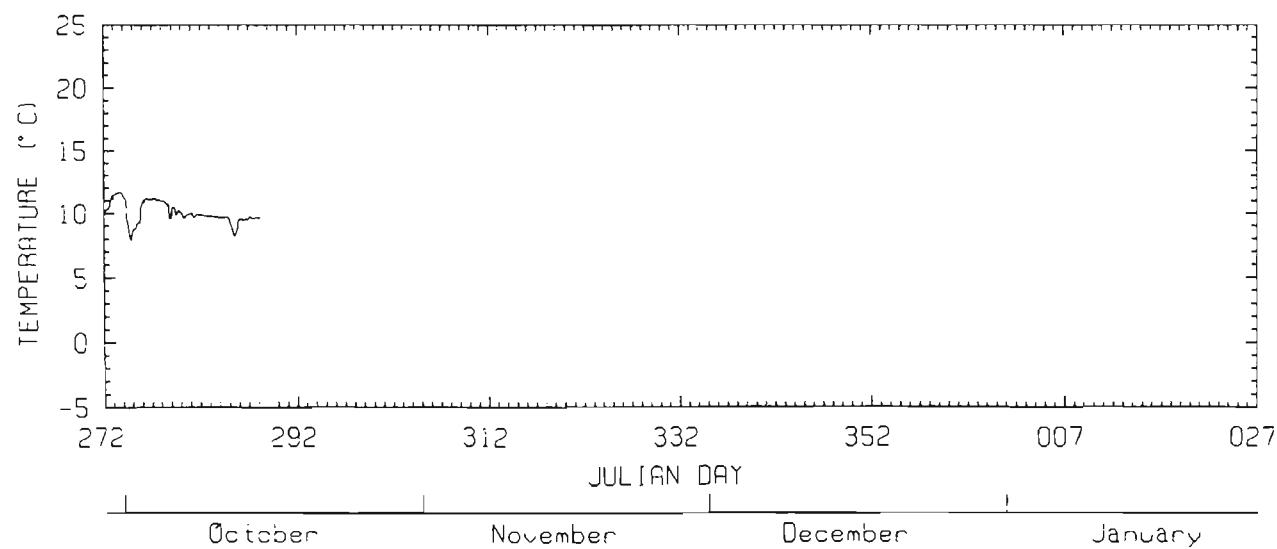
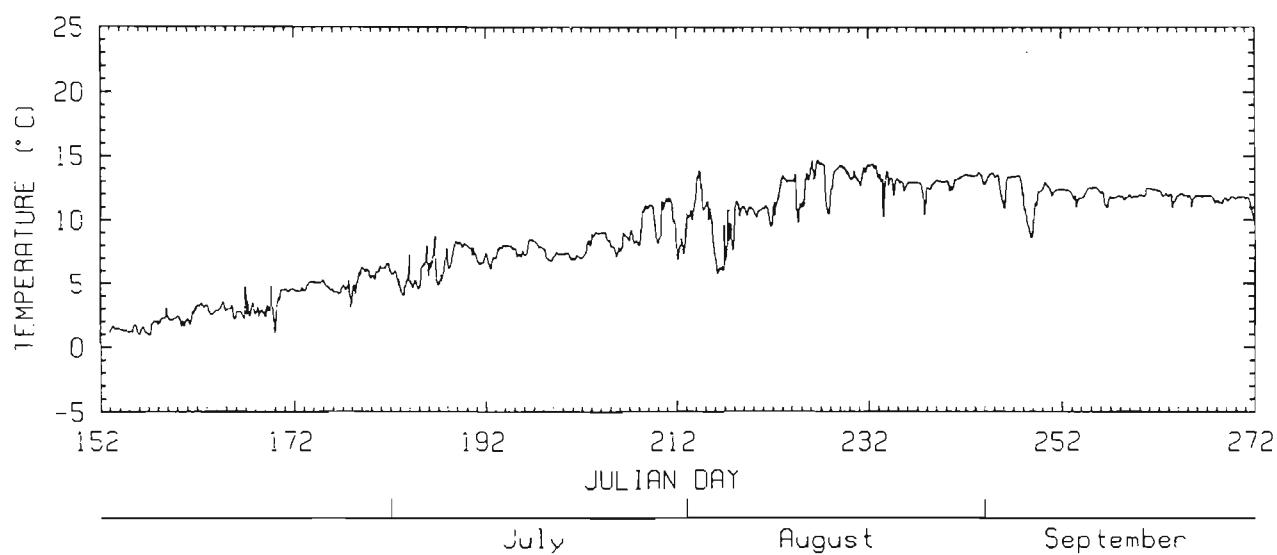
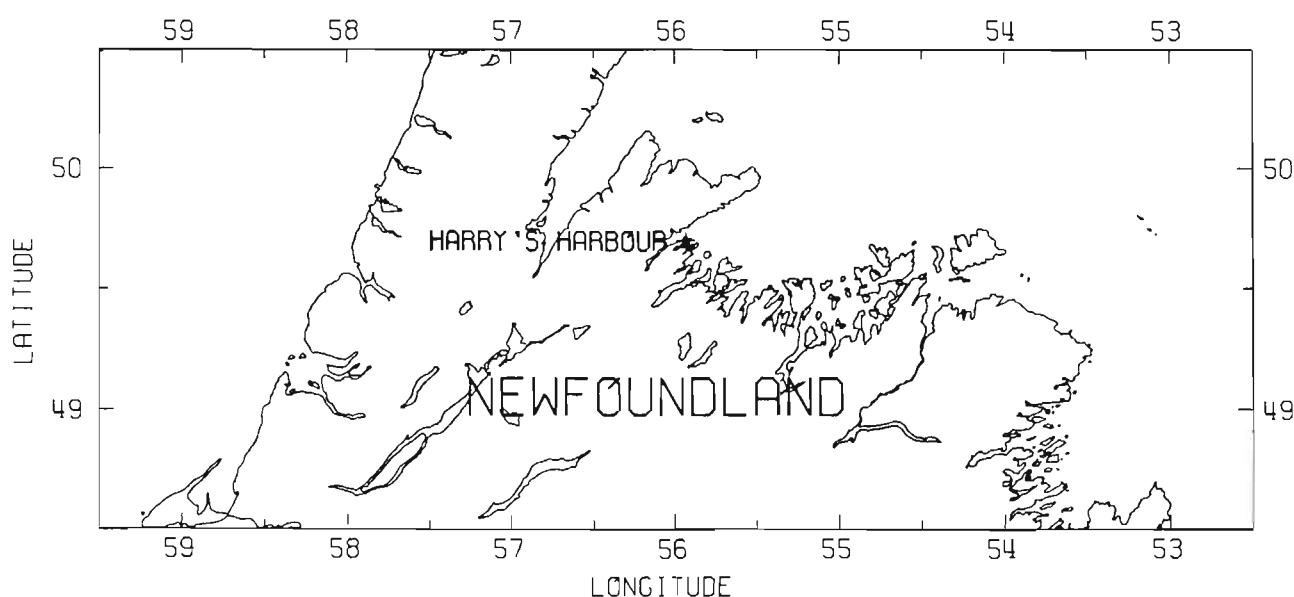
THERMOGRAPH DATA SUMMARY

STATION NAME: HARRY'S HARBOUR
STATION NUMBER: 126
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 62917
LATITUDE: 49.70° N
LONGITUDE: 55.93° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 36 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 1-JUN-1990 23:50 GMT
RECOVERY DATE/TIME: 15-OCT-1990 04:29 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1990	0.92	157	6.67	181	3.44	1.54	100.1	11.5	346
JUL-1990	4.01	183	11.79	211	7.68	1.60	238.9	114.9	421
AUG-1990	5.72	216	14.70	226	11.88	2.00	376.5	252.5	416
SEP-1990	8.62	248	13.71	244	11.86	0.83	357.3	237.3	325
OCT-1990	7.89	274	11.36	274	9.90	0.78	148.2	88.2	161
Total Period	0.92	157	14.70	226	8.88	3.59	1220.9	704.3	1669

48



Start: 1-JUN-1990

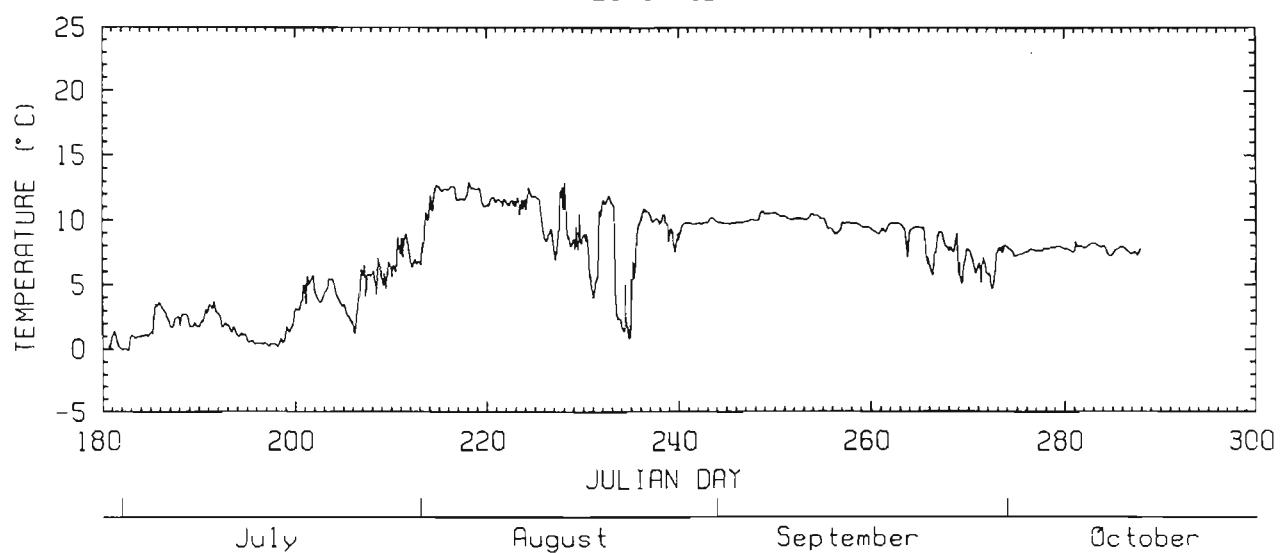
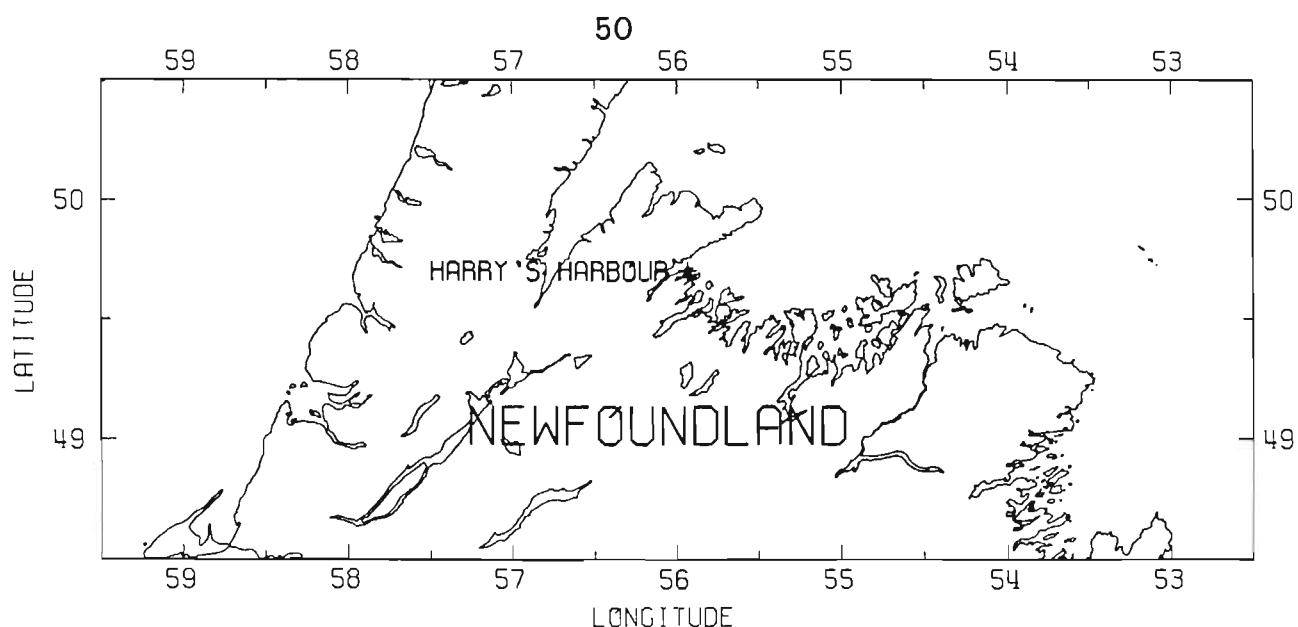
End: 15-OCT-1990

THERMOGRAPH DATA SUMMARY

STATION NAME: HARRY'S HARBOUR
STATION NUMBER: 126
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 63328
LATITUDE: 49.70° N
LONGITUDE: 55.93° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 40 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 29-JUN-1991 16:00 GMT
RECOVERY DATE/TIME: 14-OCT-1991 23:42 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1991	0.00	180	1.45	181	0.58	0.48	1.0	0.0	9
JUL-1991	-0.08	182	8.99	211	3.48	2.24	95.0	16.9	194
AUG-1991	0.82	234	12.99	228	9.57	2.62	303.3	181.4	248
SEP-1991	4.62	272	10.71	248	8.40	1.67	269.5	149.5	140
OCT-1991	7.18	274	8.38	281	7.76	0.26	108.6	52.6	55
Total Period	-0.08	182	12.99	228	7.21	3.47	777.4	400.3	646



Start: 29-JUN-1991

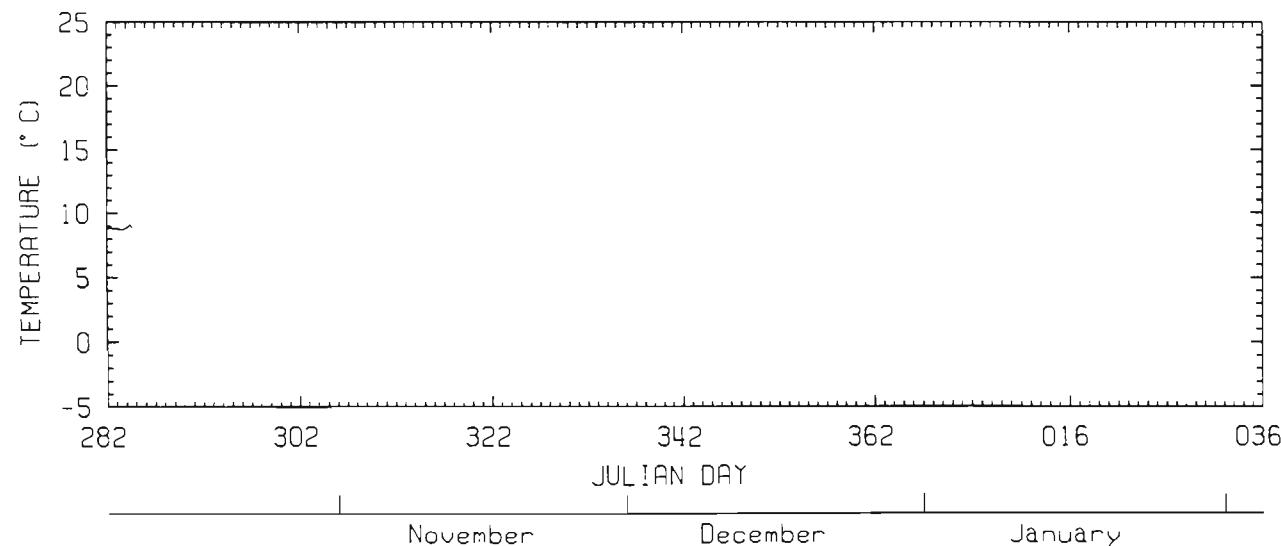
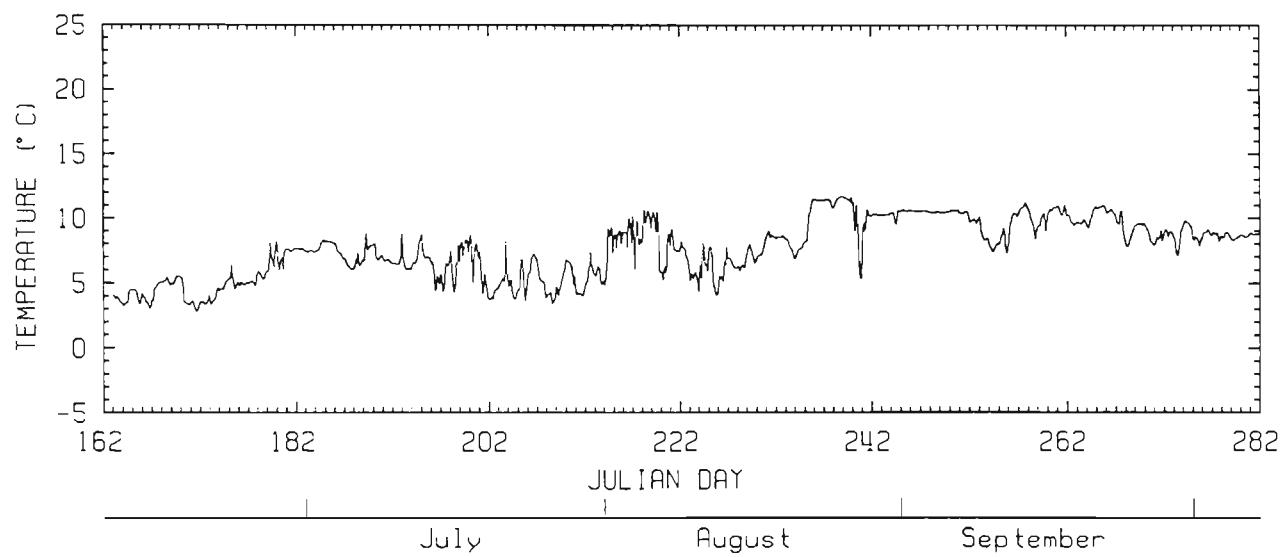
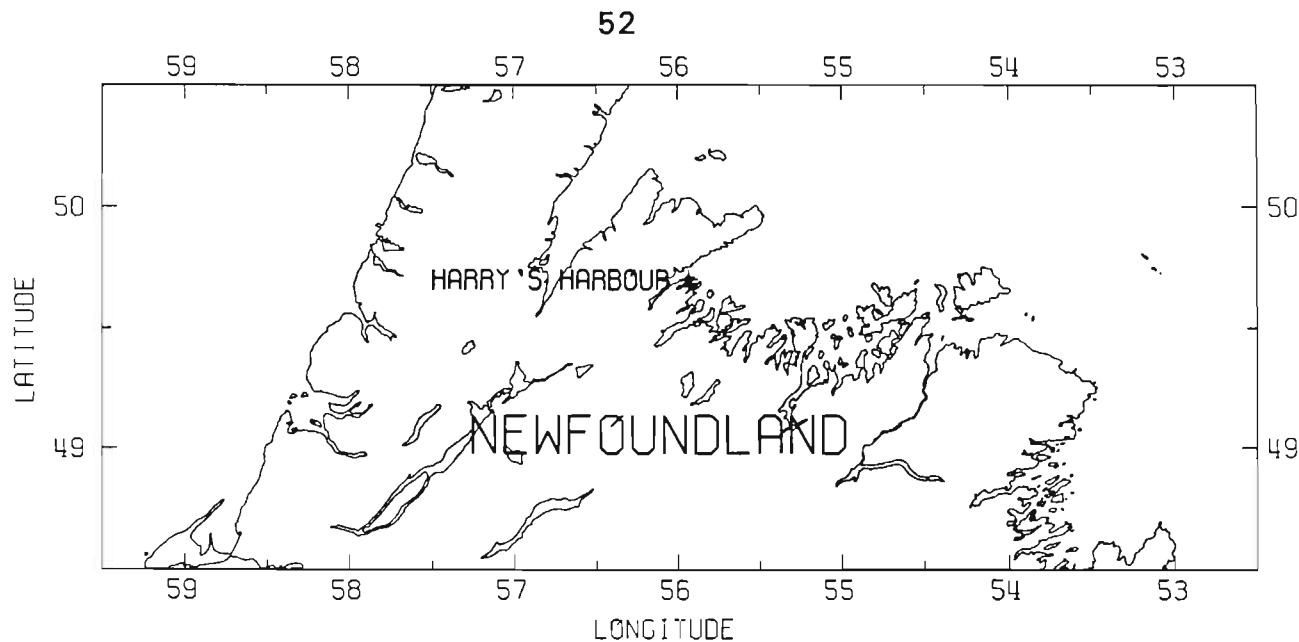
End: 14-OCT-1991

THERMOGRAPH DATA SUMMARY

STATION NAME: HARRY'S HARBOUR
STATION NUMBER: 126
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 62900
LATITUDE: 49.70° N
LONGITUDE: 55.93° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 35 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 10-JUN-1992 23:07 GMT
RECOVERY DATE/TIME: 10-OCT-1992 14:56 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1992	2.78	171	8.15	179	4.99	1.40	103.6	21.7	140
JUL-1992	3.42	208	8.82	189	6.22	1.31	206.4	74.5	238
AUG-1992	4.12	225	11.68	238	8.37	1.88	263.0	139.0	259
SEP-1992	7.09	273	11.19	257	9.67	0.99	290.8	170.8	190
OCT-1992	7.79	275	9.15	276	8.66	0.26	86.9	46.9	61
Total Period	2.78	171	11.68	238	7.56	2.18	950.6	452.8	888



Start: 10-JUN-1992

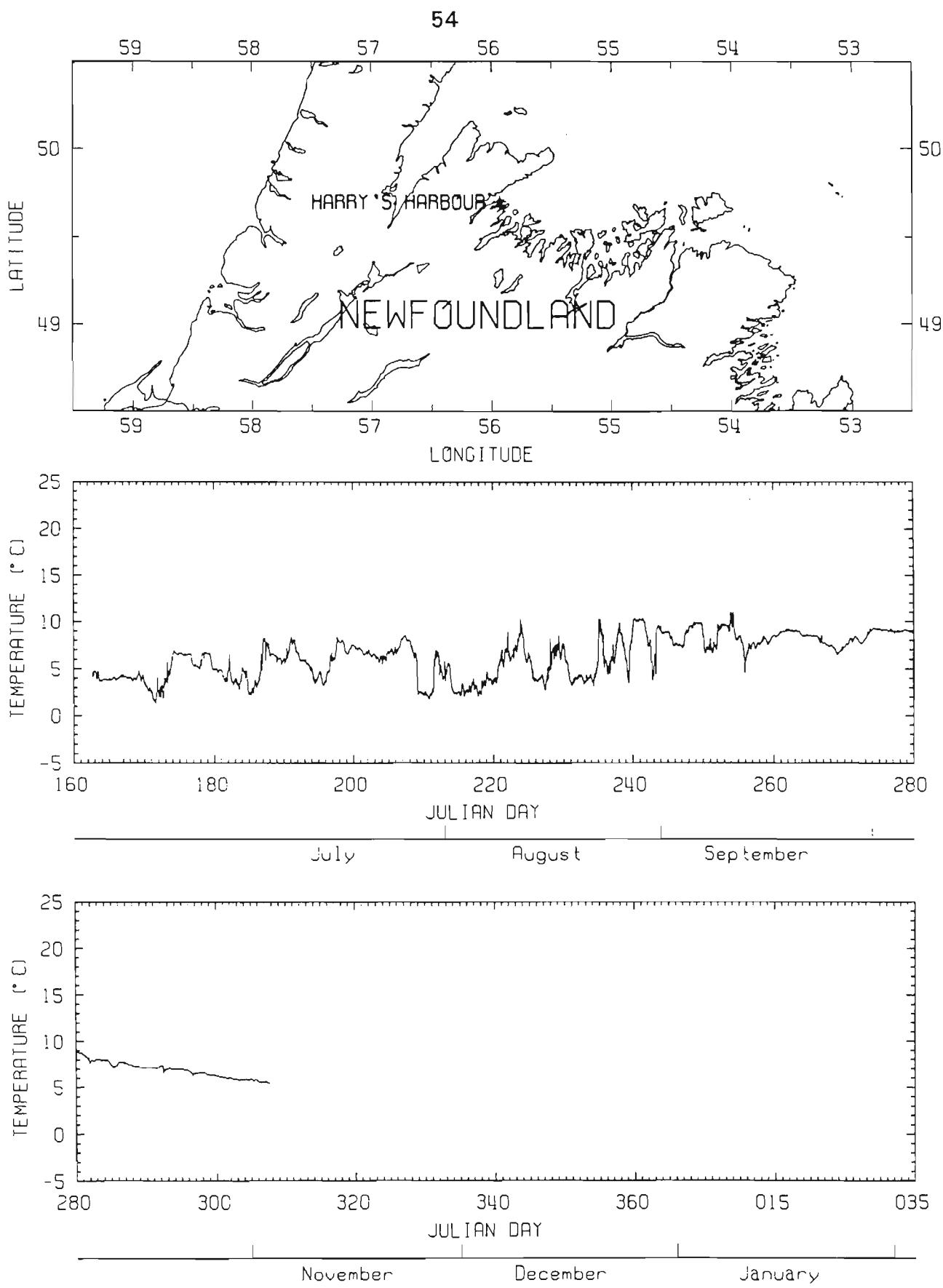
End: 10-OCT-1992

THERMOGRAPH DATA SUMMARY

STATION NAME: HARRY'S HARBOUR
STATION NUMBER: 126
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 7935
LATITUDE: 49.70° N
LONGITUDE: 55.93° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 35 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 9-JUN-1993 23:00 GMT
RECOVERY DATE/TIME: 3-NOV-1993 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-1993	1.30	171	6.95	174	4.57	1.31	91.4	15.8	464
JUL-1993	1.70	210	8.45	207	5.68	1.72	176.0	56.5	744
AUG-1993	2.00	215	10.40	241	5.57	2.26	172.5	55.1	744
SEP-1993	4.60	256	11.05	254	8.24	0.91	247.2	127.2	720
OCT-1993	5.75	303	9.35	274	7.42	1.06	230.0	106.0	744
NOV-1993	5.45	307	5.85	305	5.64	0.13	16.9	4.9	66
Total Period	1.30	171	11.05	254	6.41	2.00	933.9	365.5	3482



Start: 9-JUN-1993

End: 3-NOV-1993

Appendix 5. Time Series Plots and Monthly Statistics
from Unit Area 3Ki.



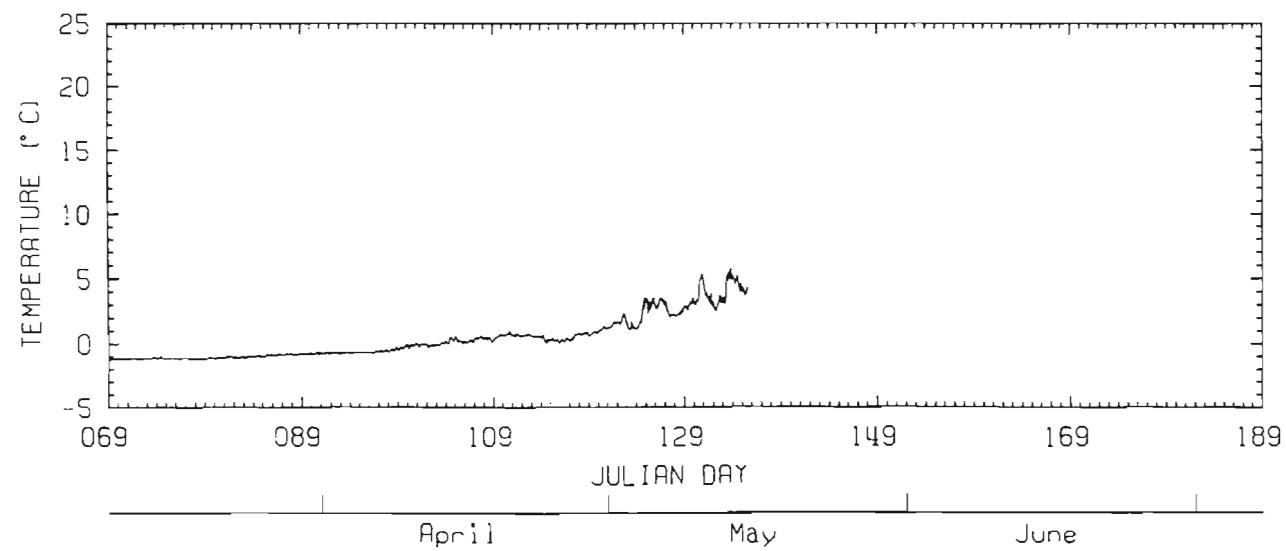
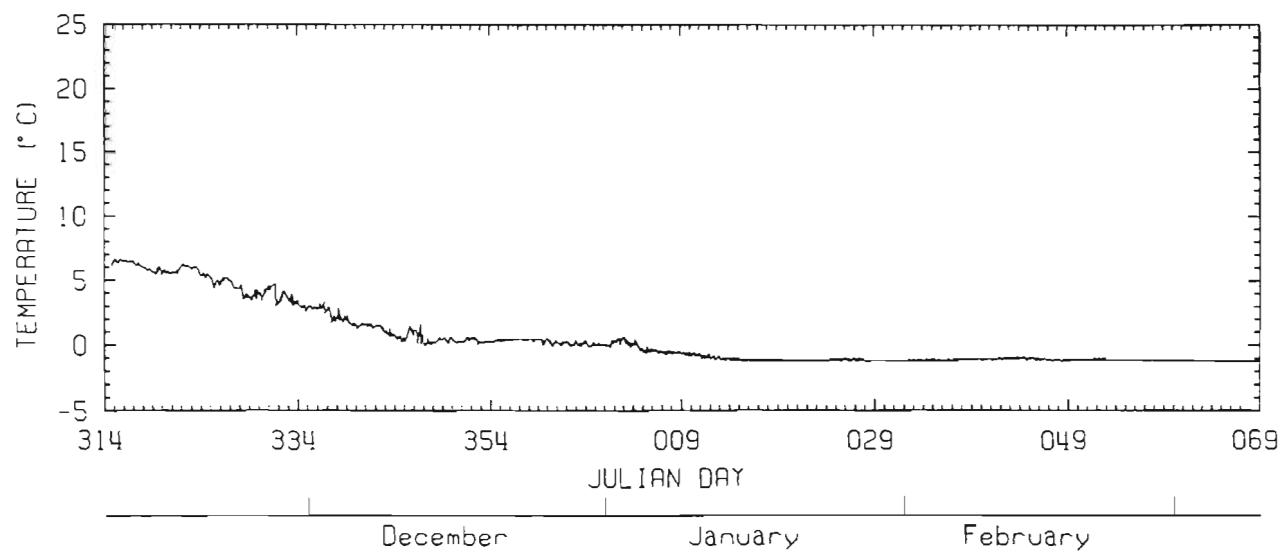
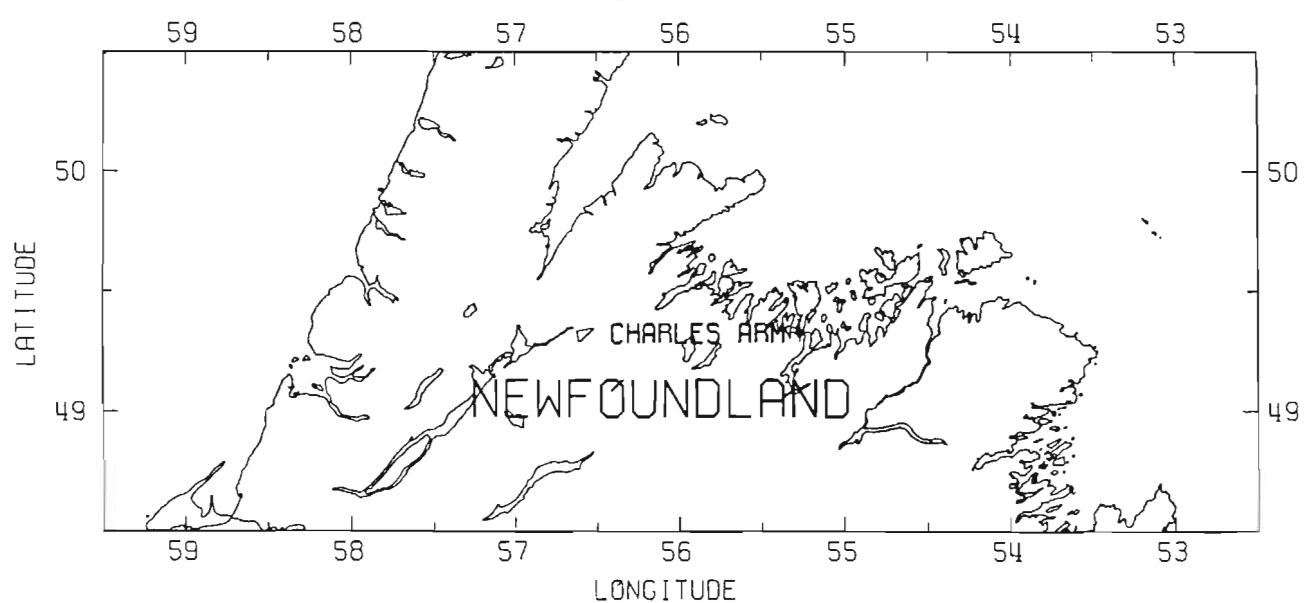
THERMOGRAPH DATA SUMMARY

STATION NAME: CHARLES ARM
STATION NUMBER: 121
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 4325
LATITUDE: 49.33° N
LONGITUDE: 55.27° W
INSTRUMENT DEPTH: 3 m
WATER DEPTH: 17 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 10-NOV-1989 19:00 GMT
RECOVERY DATE/TIME: 15-MAY-1990 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
NOV-1989	2.50	334	6.70	315	5.02	1.10	106.4	24.5	485
DEC-1989	-0.10	347	3.40	336	0.80	0.83	24.7	0.0	744
JAN-1990	-1.30	28	0.60	2	-0.86	0.47	0.6	0.0	744
FEB-1990	-1.20	32	-0.90	41	-1.11	0.07	0.0	0.0	672
MAR-1990	-1.30	60	-0.70	87	-1.08	0.14	0.0	0.0	744
APR-1990	-0.80	91	1.40	120	0.10	0.55	8.8	0.0	720
MAY-1990	1.00	123	5.80	133	2.92	1.12	44.3	1.1	350
Total Period	-1.30	28	6.70	315	0.43	2.07	184.8	25.6	4459

58



Start: 10-NOV-1989

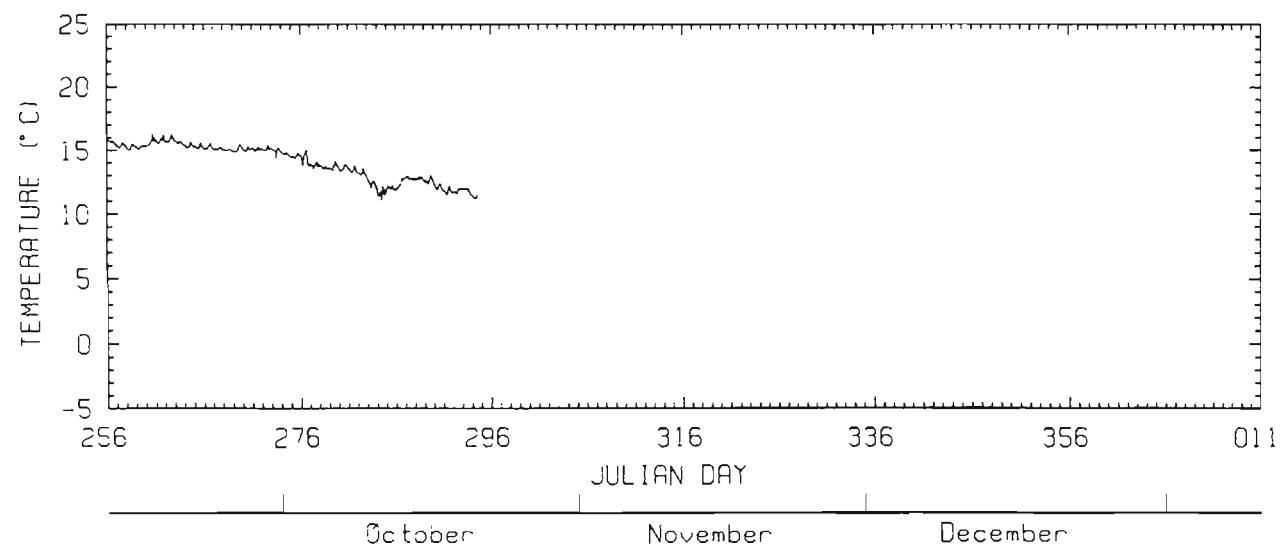
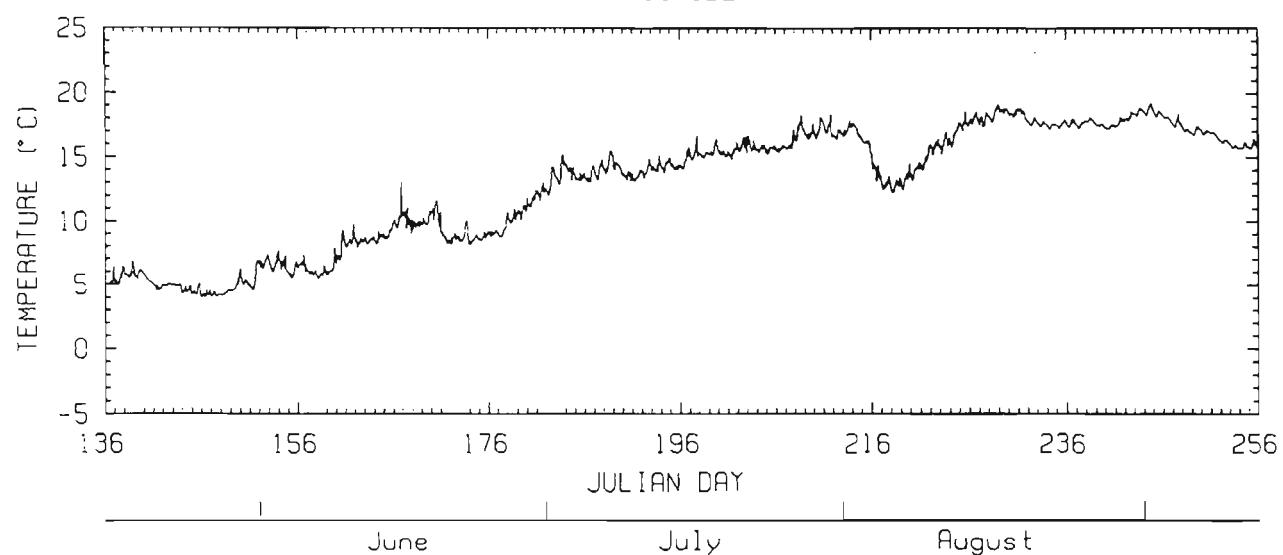
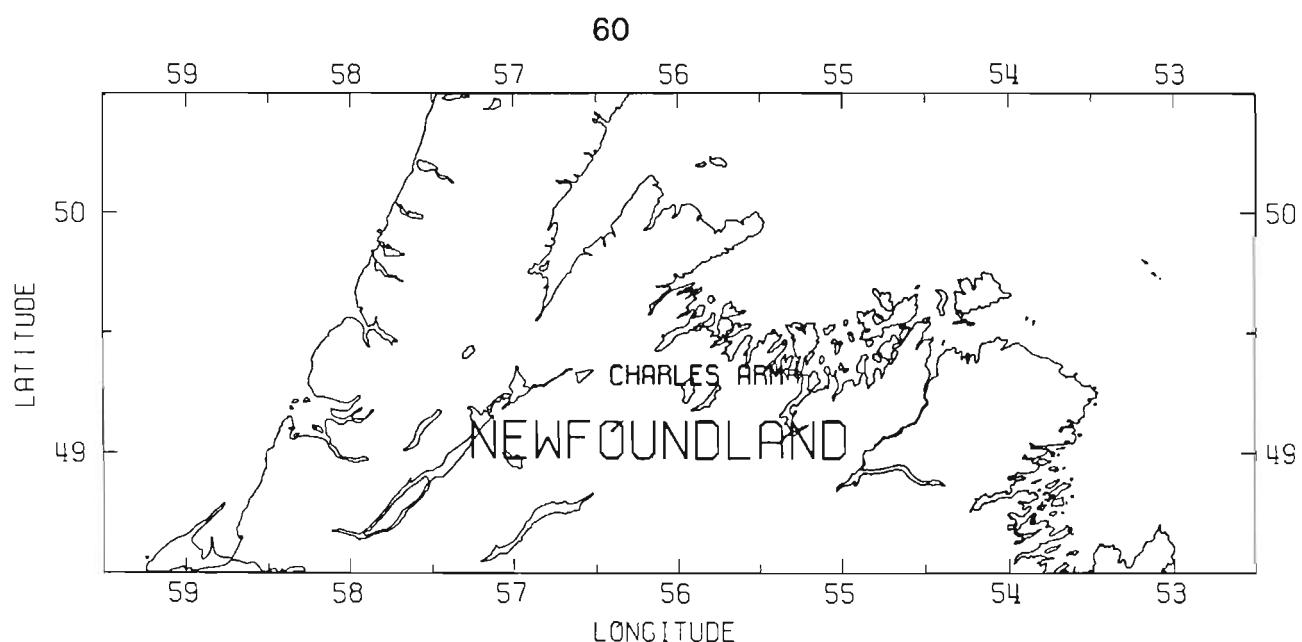
End: 15-MAY-1990

THERMOGRAPH DATA SUMMARY

STATION NAME: CHARLES ARM
STATION NUMBER: 121
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 4333
LATITUDE: 49.33° N
LONGITUDE: 55.27° W
INSTRUMENT DEPTH: 3 m
WATER DEPTH: 17 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 16-MAY-1990 12:00 GMT
RECOVERY DATE/TIME: 21-OCT-1990 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1990	4.00	146	6.90	151	5.00	0.64	80.2	16.2	372
JUN-1990	5.45	158	13.10	166	8.64	1.75	259.1	139.1	720
JUL-1990	11.95	182	18.40	211	15.04	1.28	466.2	342.2	744
AUG-1990	12.25	218	19.10	229	16.79	1.75	520.4	396.4	744
SEP-1990	14.30	273	19.25	244	16.01	1.09	480.3	360.3	720
OCT-1990	11.00	284	15.15	276	12.89	1.00	270.2	186.2	495
Total Period	4.00	146	19.25	244	13.09	4.14	2076.2	1440.2	3795



Start: 16-MAY-1990

End: 21-OCT-1990

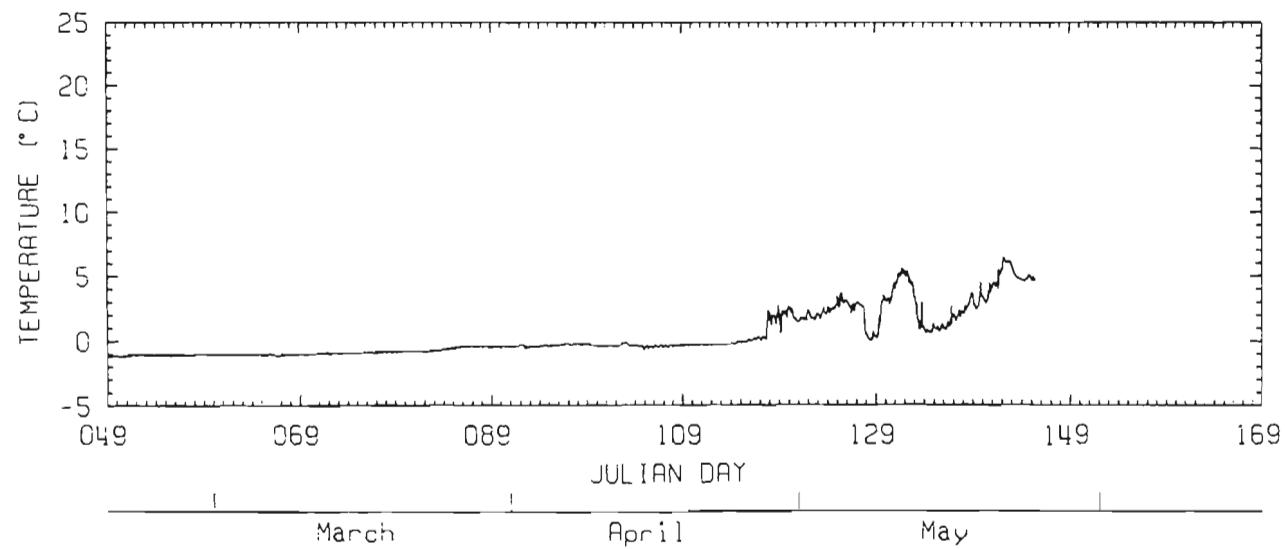
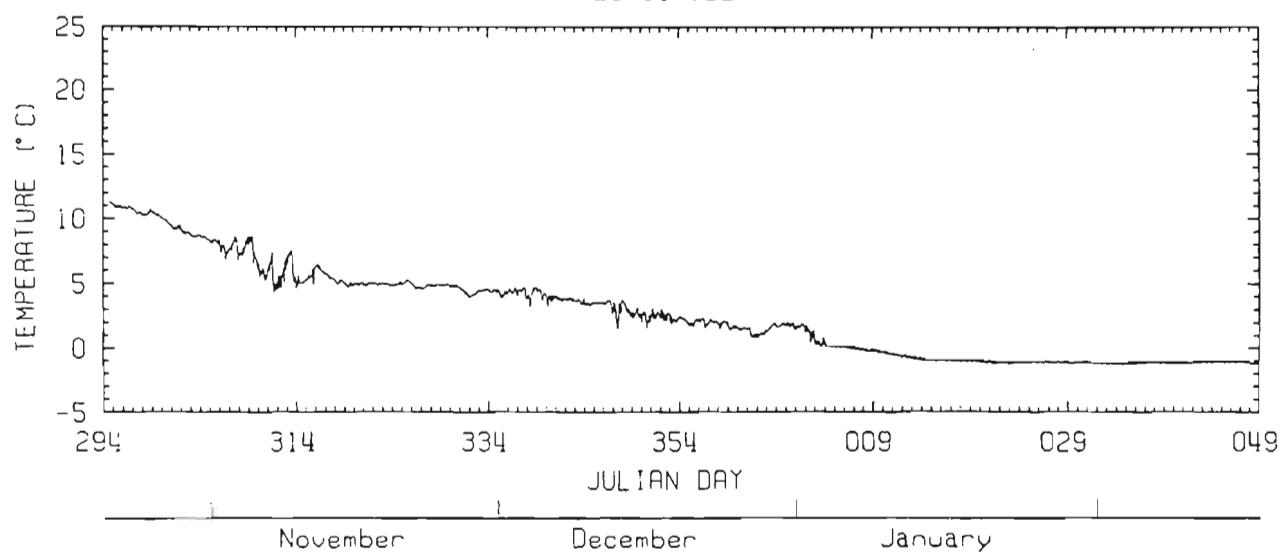
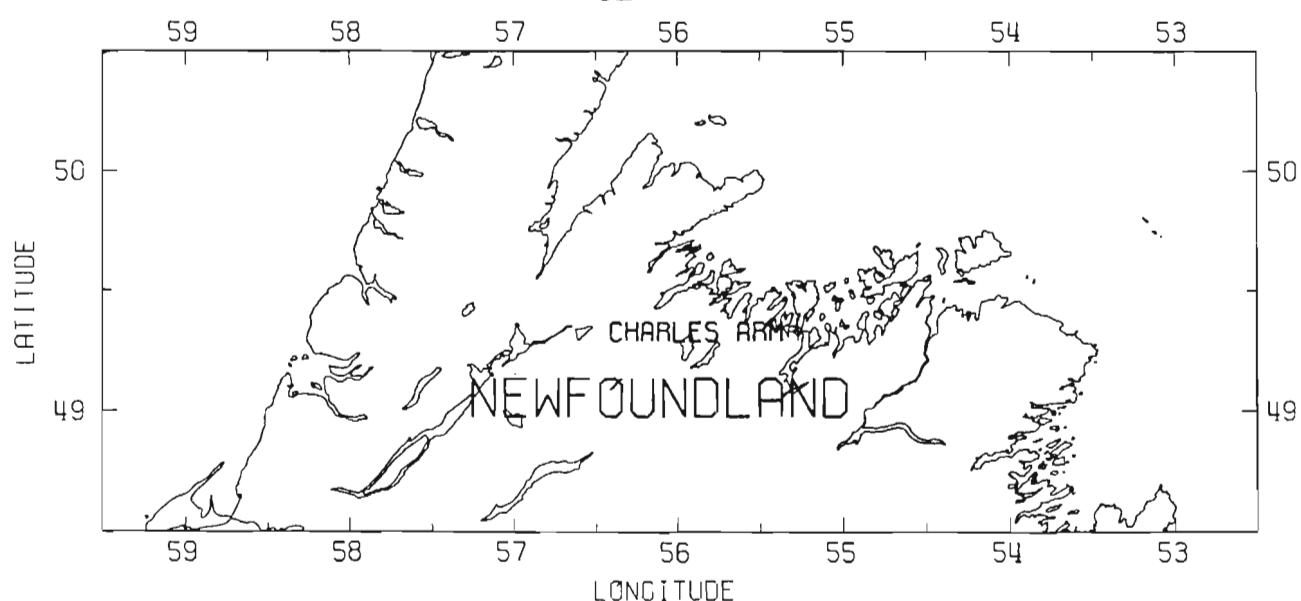
THERMOGRAPH DATA SUMMARY

STATION NAME: CHARLES ARM
STATION NUMBER: 121
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5471
LATITUDE: 49.33° N
LONGITUDE: 55.27° W
INSTRUMENT DEPTH: 3 m
WATER DEPTH: 15 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 21-OCT-1990 16:00 GMT
RECOVERY DATE/TIME: 25-MAY-1991 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
OCT-1990	8.30	304	11.20	294	9.85	0.89	109.3	65.3	248
NOV-1990	3.90	332	8.60	307	5.55	1.18	166.5	46.5	720
DEC-1990	0.80	361	4.80	338	2.78	1.04	86.3	1.5	744
JAN-1991	-1.20	20	1.90	1	-0.57	0.71	3.7	0.0	744
FEB-1991	-1.20	32	-1.00	32	-1.09	0.07	0.0	0.0	672
MAR-1991	-1.10	65	-0.30	87	-0.81	0.22	0.0	0.0	744
APR-1991	-0.70	104	2.70	118	-0.05	0.71	6.4	0.0	720
MAY-1991	0.00	128	6.40	142	2.87	1.58	72.7	6.9	588
Total Period	-1.20	20	11.20	294	1.62	3.08	444.9	120.2	5180

62



Start: 21-OCT-1990

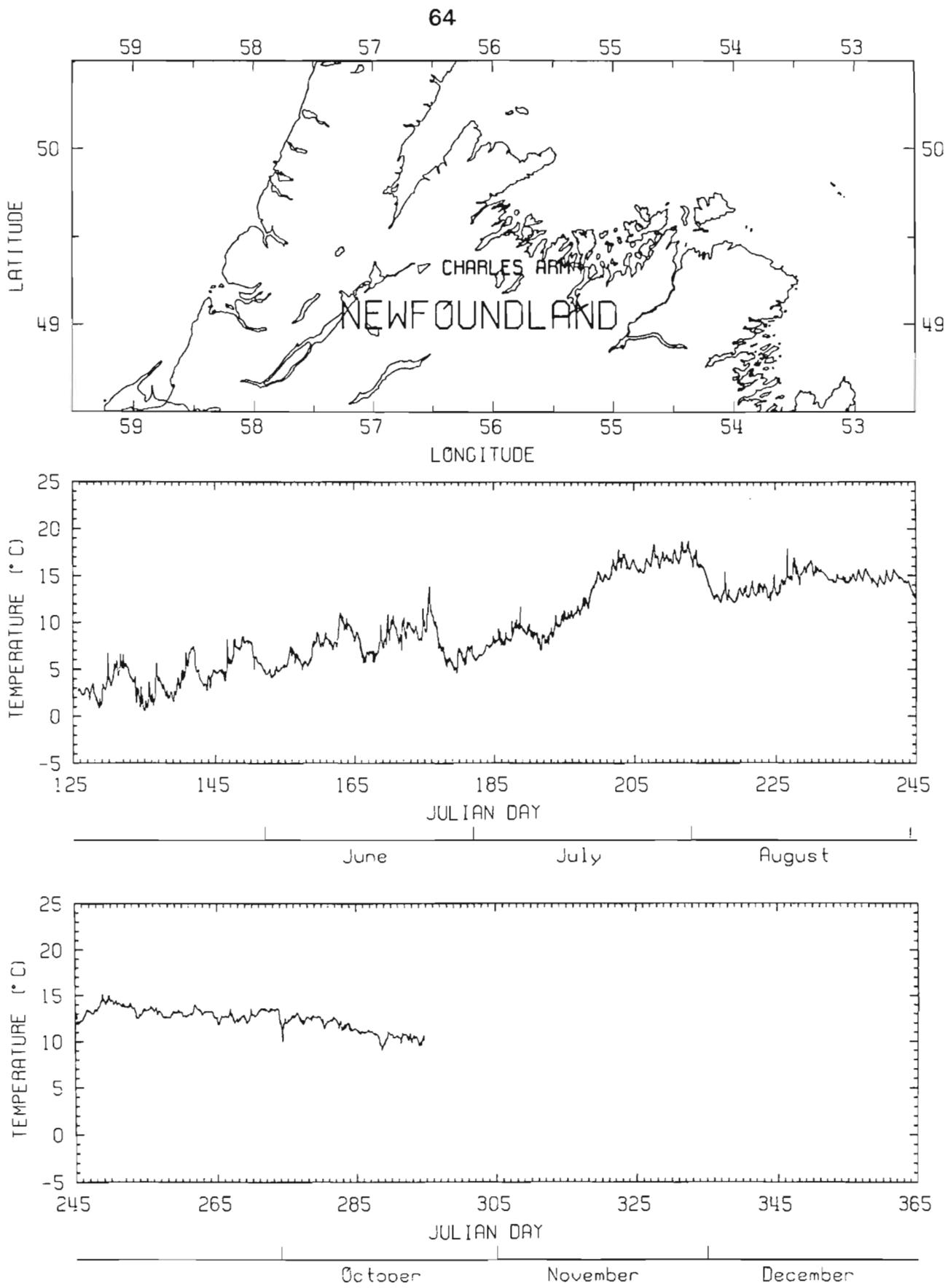
End: 25-MAY-1991

THERMOGRAPH DATA SUMMARY

STATION NAME: CHARLES ARM
STATION NUMBER: 121
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 4333
LATITUDE: 49.33° N
LONGITUDE: 55.27° W
INSTRUMENT DEPTH: 3 m
WATER DEPTH: 15 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 5-MAY-1991 17:00 GMT
RECOVERY DATE/TIME: 21-OCT-1991 19:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1991	0.60	134	8.55	148	4.26	1.92	114.1	23.2	631
JUN-1991	4.05	153	13.90	175	7.54	1.83	226.3	106.3	720
JUL-1991	5.85	182	18.70	211	12.34	3.85	382.6	258.6	744
AUG-1991	12.10	217	18.00	226	14.44	1.15	447.7	323.7	744
SEP-1991	11.75	265	15.15	248	13.17	0.61	395.0	275.0	720
OCT-1991	9.00	288	13.10	276	11.38	0.96	238.8	154.8	500
Total Period	0.60	134	18.70	211	10.65	4.09	1804.5	1141.6	4059



Start: 5-MAY-1991

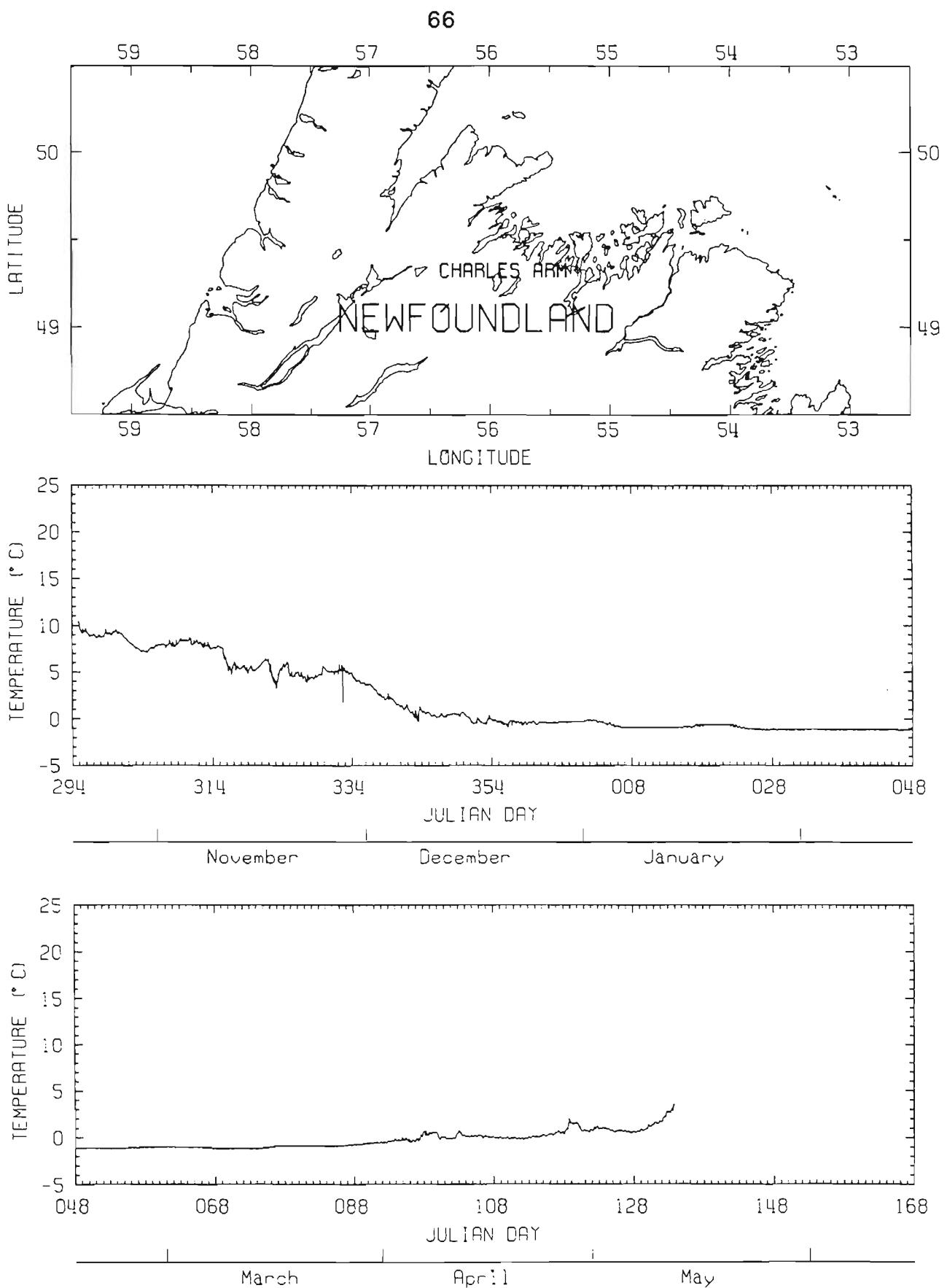
End: 21-OCT-1991

THERMOGRAPH DATA SUMMARY

STATION NAME: CHARLES ARM
STATION NUMBER: 121
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5471
LATITUDE: 49.33° N
LONGITUDE: 55.27° W
INSTRUMENT DEPTH: 4 m
WATER DEPTH: 14 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 21-OCT-1991 20:00 GMT
RECOVERY DATE/TIME: 12-MAY-1992 20:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
OCT-1991	7.00	303	10.40	294	8.62	0.80	96.3	52.3	244
NOV-1991	1.70	332	8.65	310	6.11	1.46	183.2	63.2	720
DEC-1991	-0.90	356	4.20	335	0.55	1.25	22.4	0.0	744
JAN-1992	-1.20	24	-0.10	2	-0.82	0.27	0.0	0.0	744
FEB-1992	-1.25	35	-0.95	59	-1.11	0.05	0.0	0.0	696
MAR-1992	-1.20	67	-0.40	91	-0.95	0.17	0.0	0.0	744
APR-1992	-0.55	92	2.00	118	0.19	0.46	7.8	0.0	720
MAY-1992	0.45	127	3.60	133	1.20	0.70	14.6	0.0	285
Total Period	-1.25	35	10.40	294	1.08	3.04	324.2	115.4	4897



Start: 21-OCT-1991

End: 12-MAY-1992

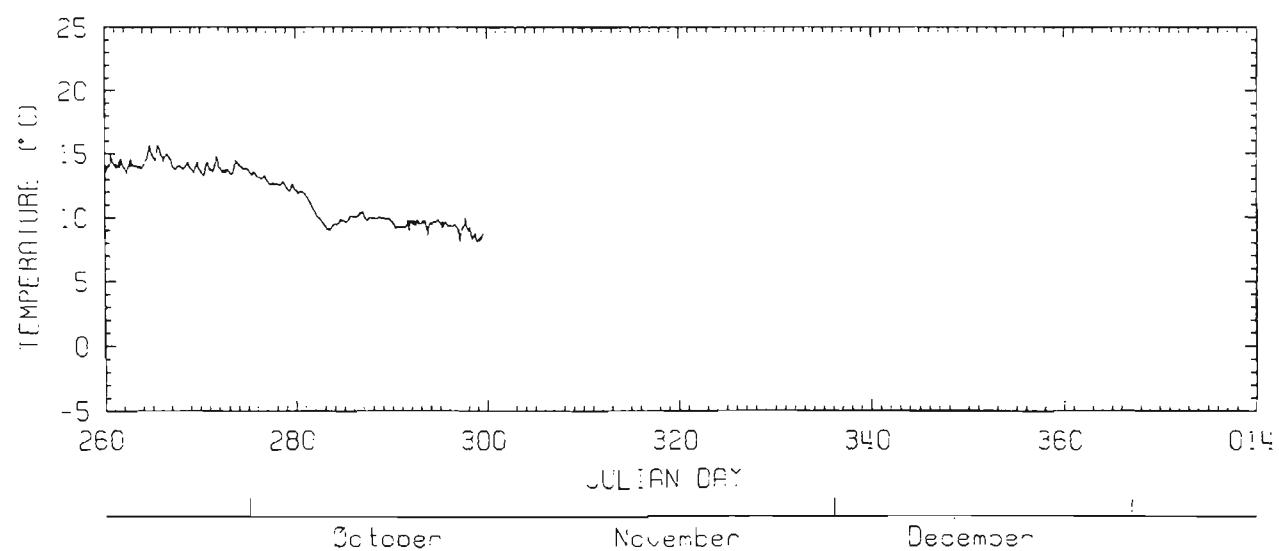
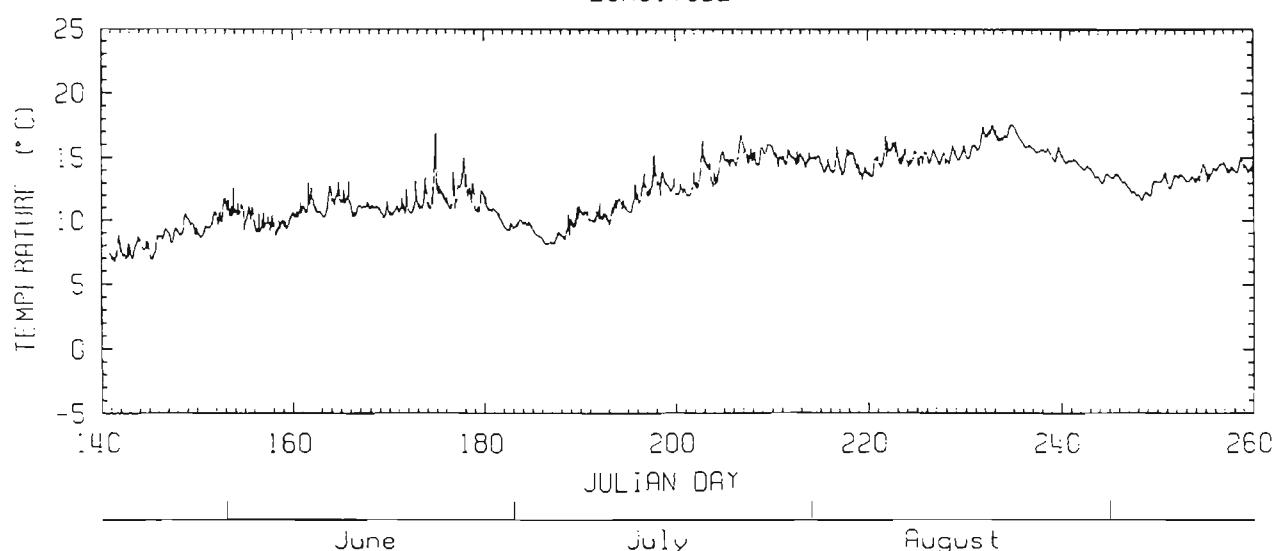
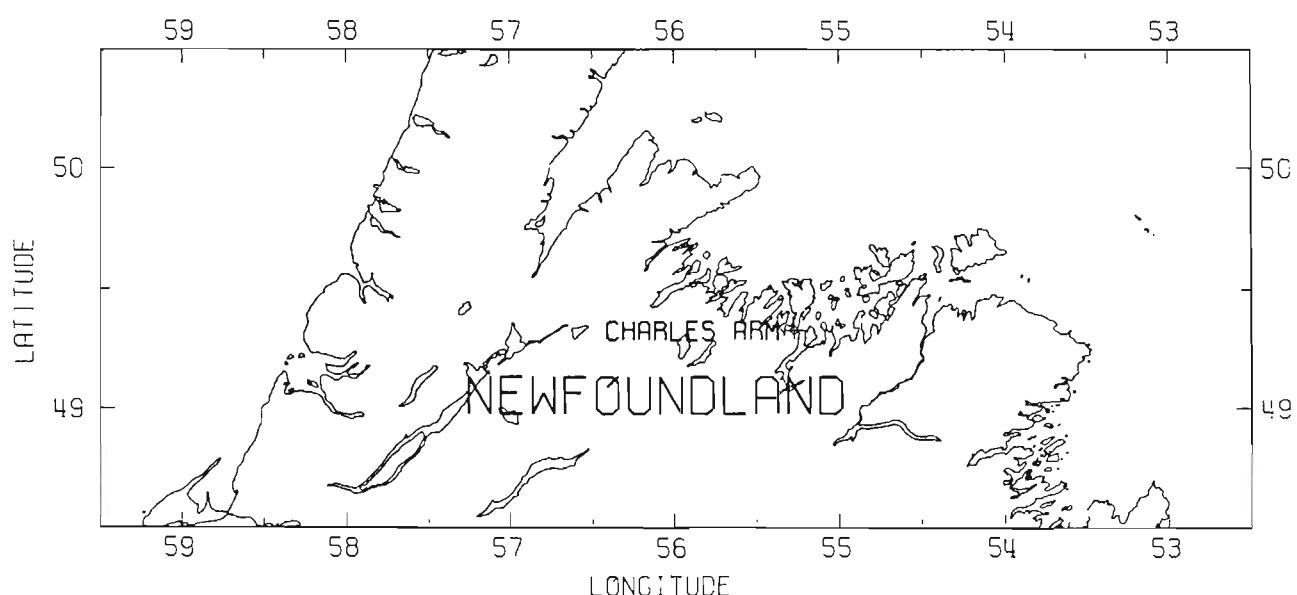
THERMOGRAPH DATA SUMMARY

STATION NAME: CHARLES ARM
STATION NUMBER: 121
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 4333
LATITUDE: 49.33° N
LONGITUDE: 55.27° W
INSTRUMENT DEPTH: 4 m
WATER DEPTH: 14 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 19-MAY-1992 21:00 GMT
RECOVERY DATE/TIME: 25-OCT-1992 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1992	6.65	141	11.75	152	8.70	1.12	111.9	59.9	291
JUN-1992	8.80	158	16.95	174	11.04	1.11	331.2	211.2	720
JUL-1992	8.15	186	16.80	206	12.36	2.38	383.2	259.2	744
AUG-1992	12.90	244	17.70	234	15.14	0.99	469.3	345.3	744
SEP-1992	11.60	248	15.75	264	13.75	0.72	412.4	292.4	720
OCT-1992	8.05	297	13.75	275	10.33	1.45	257.6	157.6	591
Total Period	6.65	141	17.70	234	12.32	2.43	1965.7	1325.7	3810

68



Start: 19-MAY-1992

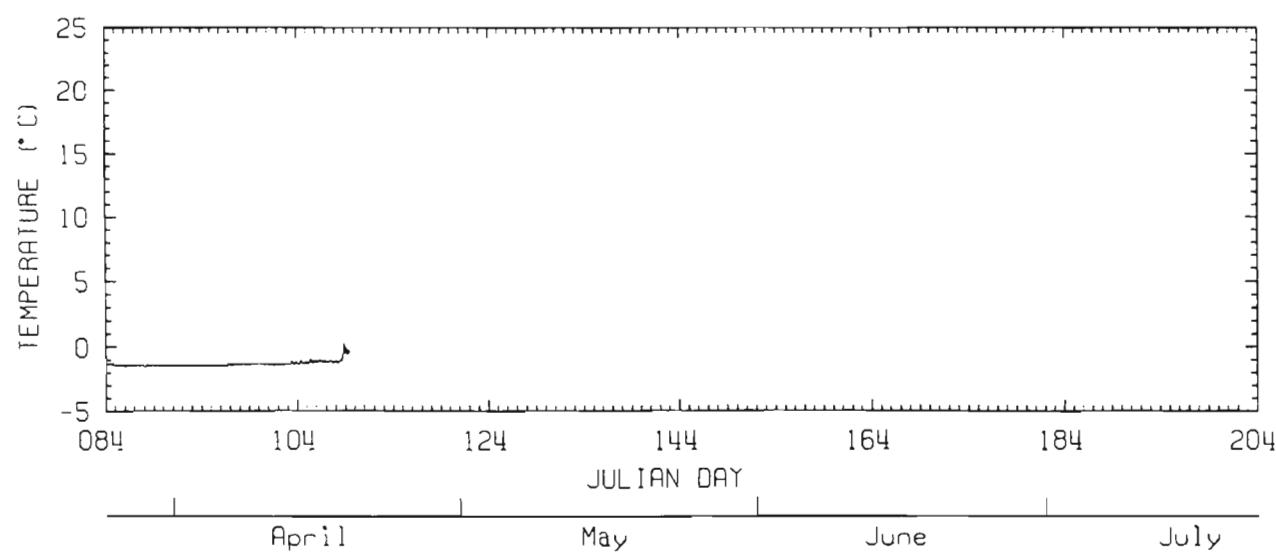
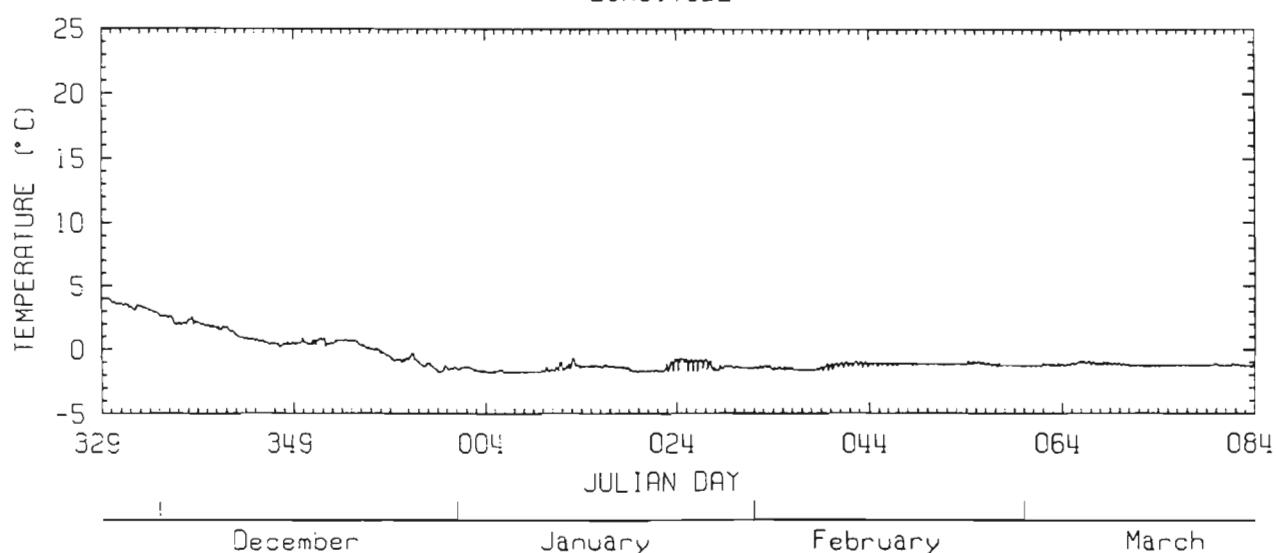
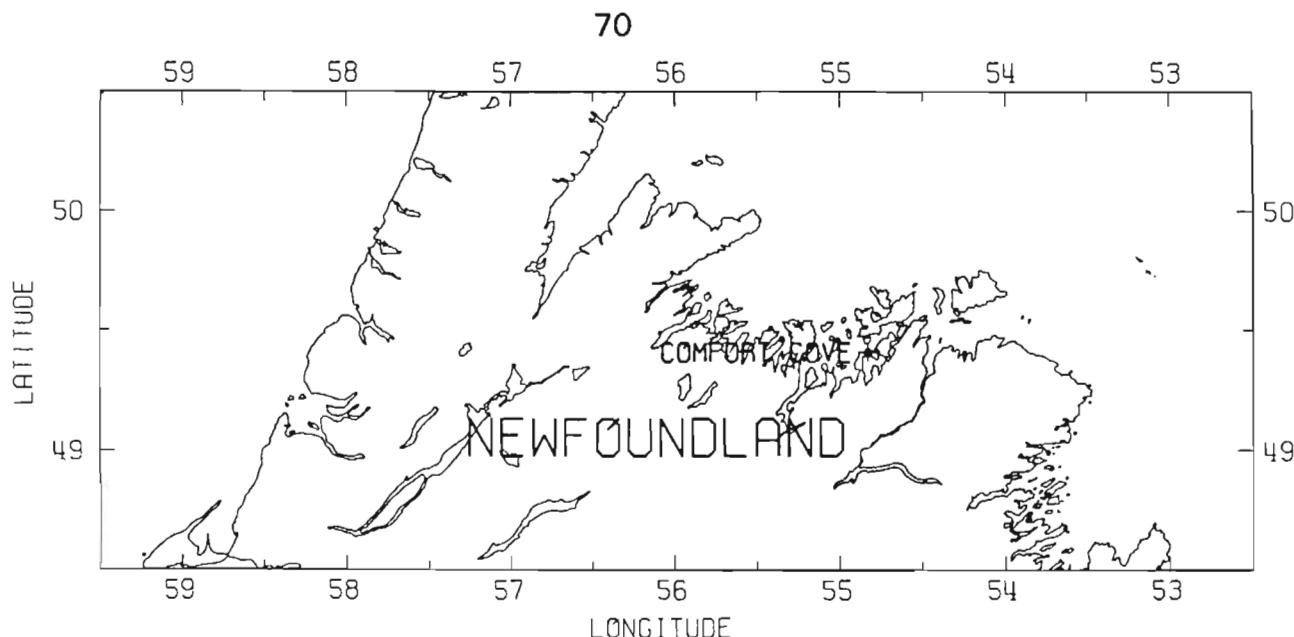
End: 25-OCT-1992

THERMOGRAPH DATA SUMMARY

STATION NAME: COMFORT COVE
STATION NUMBER: 118
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3264
LATITUDE: 49.41° N
LONGITUDE: 54.83° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 25-NOV-1989 15:00 GMT
RECOVERY DATE/TIME: 19-APR-1990 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
NOV-1989	2.85	334	4.10	329	3.40	0.29	20.8	0.0	129
DEC-1989	-1.80	364	2.80	335	0.51	1.15	24.3	0.0	744
JAN-1990	-1.85	6	-0.60	13	-1.46	0.28	0.0	0.0	744
FEB-1990	-1.75	39	-0.90	42	-1.26	0.19	0.0	0.0	672
MAR-1990	-1.50	85	-0.90	65	-1.26	0.13	0.0	0.0	744
APR-1990	-1.50	93	0.30	108	-1.27	0.25	0.0	0.0	445
Total Period	-1.85	6	4.10	329	-0.75	1.24	45.0	0.0	3478



Start: 25-NOV-1989

End: 19-APR-1990

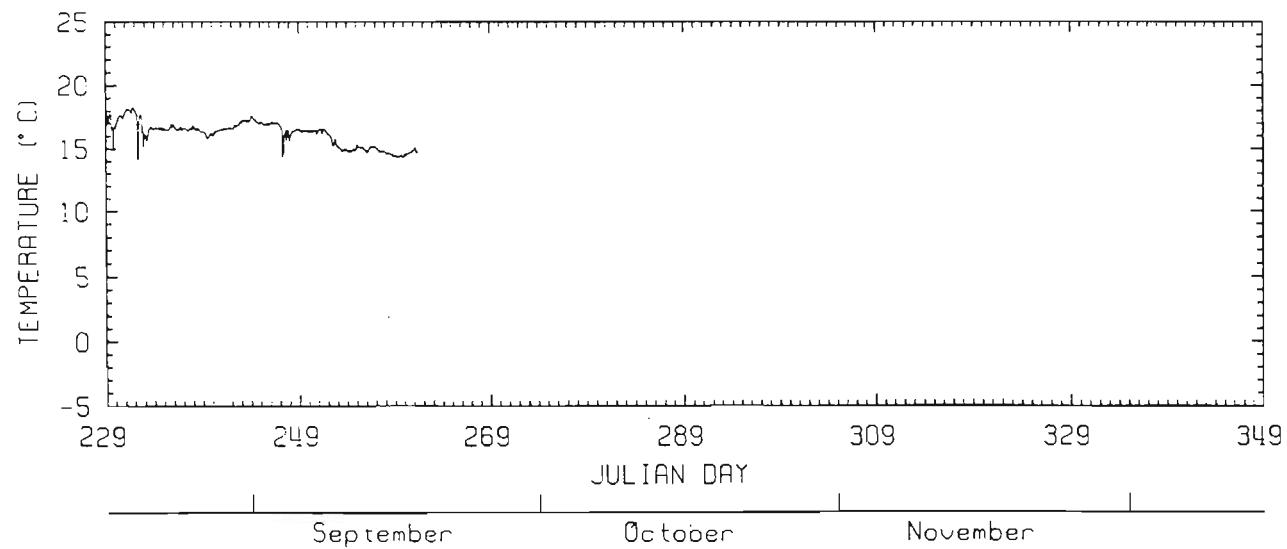
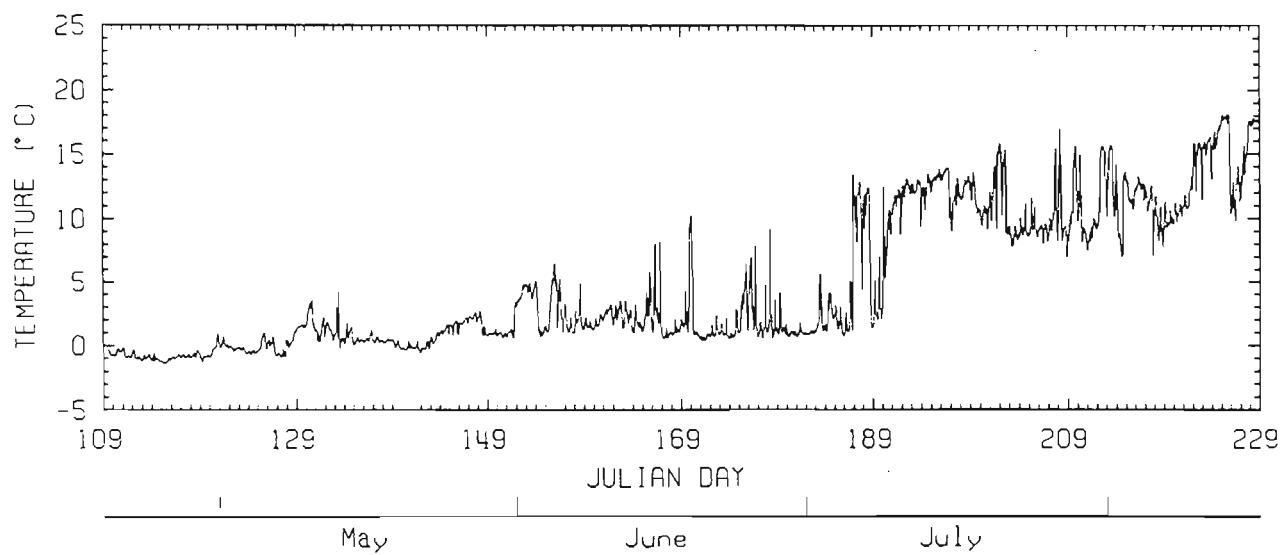
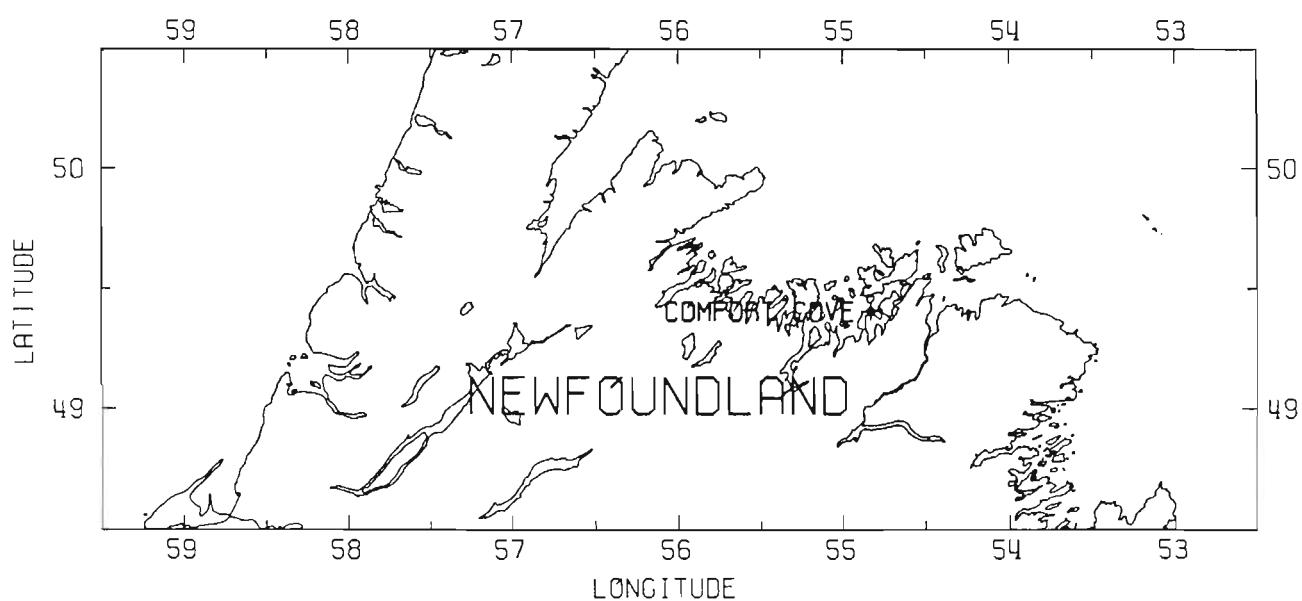
THERMOGRAPH DATA SUMMARY

STATION NAME: COMFORT COVE
STATION NUMBER: 118
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5456
LATITUDE: 49.41° N
LONGITUDE: 54.83° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 19-APR-1990 14:00 GMT
RECOVERY DATE/TIME: 18-SEP-1990 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
APR-1990	-1.40	115	0.95	120	-0.81	0.35	0.0	0.0	274
MAY-1990	-0.95	127	4.15	133	0.66	0.88	22.5	0.0	744
JUN-1990	0.40	171	10.25	170	2.16	1.66	64.8	0.4	720
JUL-1990	0.70	186	16.90	208	9.22	4.11	286.0	173.5	744
AUG-1990	7.00	214	18.30	231	14.79	2.85	458.5	334.5	744
SEP-1990	14.30	247	17.60	244	15.67	0.96	281.7	209.7	420
Total Period	-1.40	115	18.30	231	7.21	6.73	1113.4	718.0	3646

72



Start: 19-APR-1990

End: 18-SEP-1990

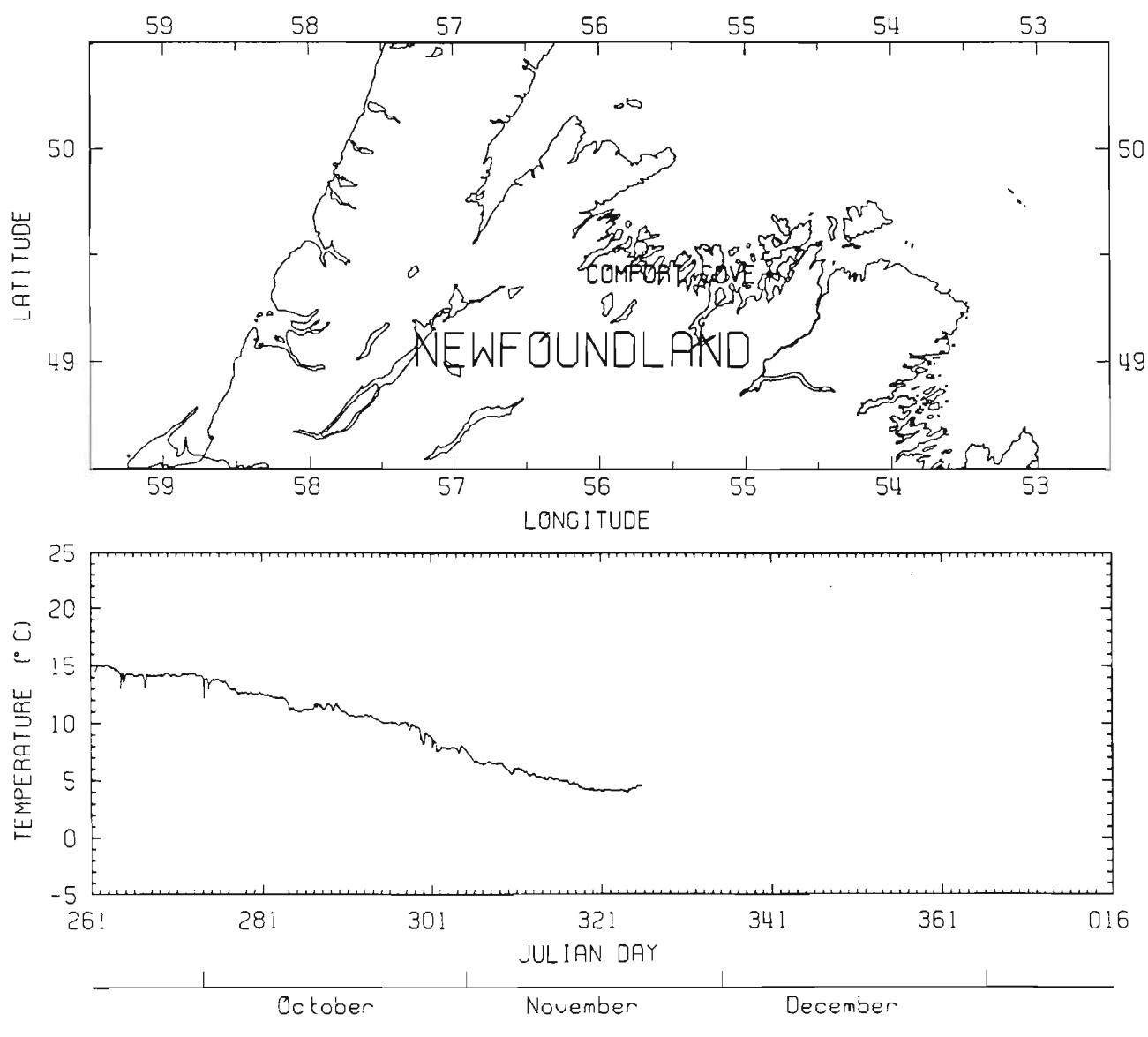
THERMOGRAPH DATA SUMMARY

STATION NAME: COMFORT COVE
STATION NUMBER: 118
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3261
LATITUDE: 49.41° N
LONGITUDE: 54.83° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 10 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 18-SEP-1990 13:00 GMT
RECOVERY DATE/TIME: 21-NOV-1990 19:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
SEP-1990	13.00	264	15.10	261	14.29	0.35	186.1	134.1	299
OCT-1990	7.40	304	14.10	274	10.95	1.70	339.5	215.5	744
NOV-1990	3.90	323	7.80	305	5.24	0.97	110.0	26.0	500
Total Period	3.90	323	15.10	261	9.75	3.61	635.6	375.6	1543

74



Start: 18-SEP-1990

End: 21-NOV-1990

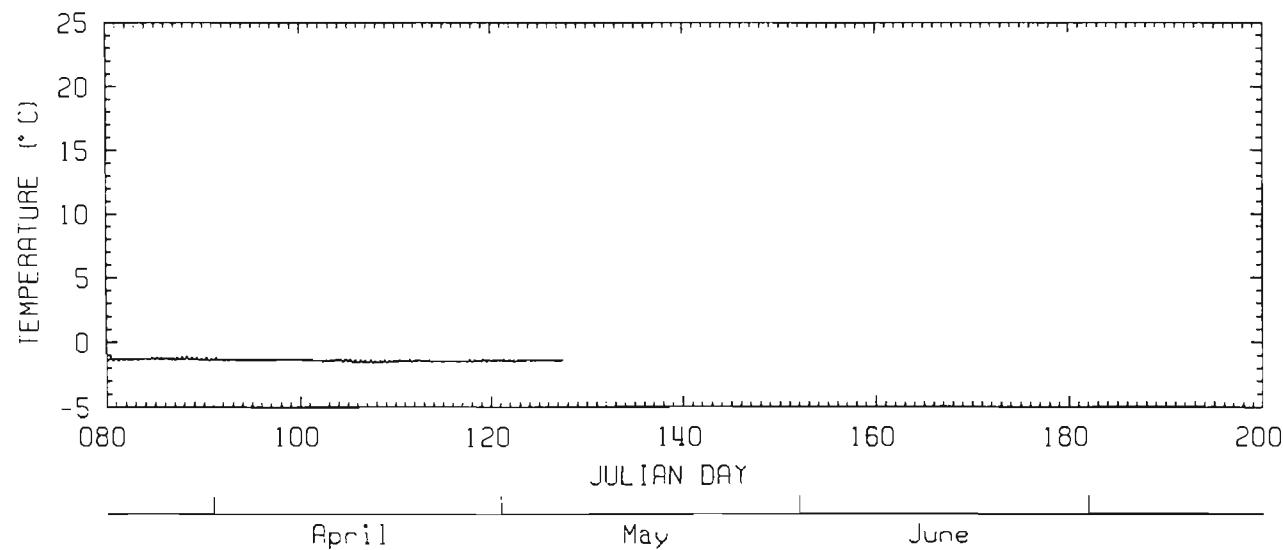
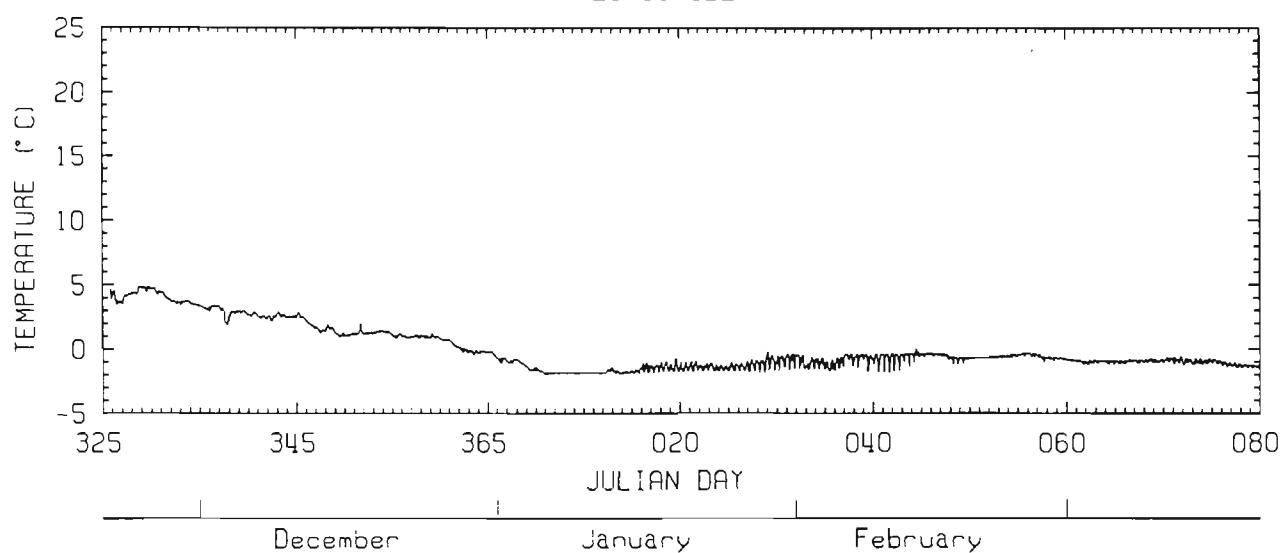
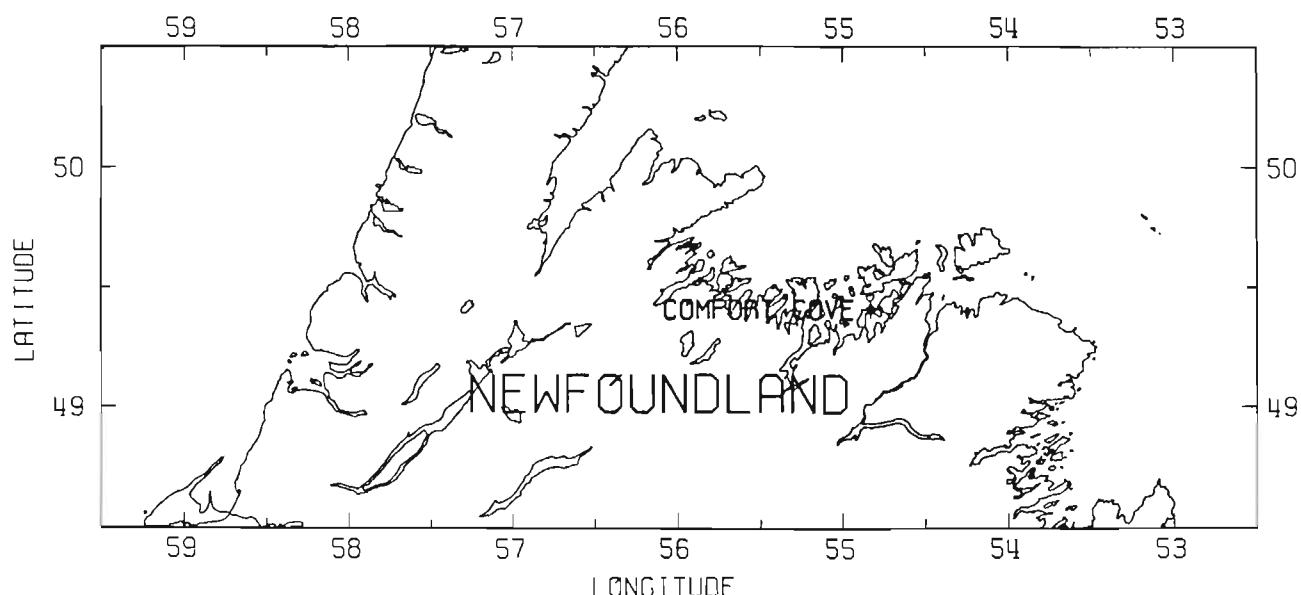
THERMOGRAPH DATA SUMMARY

STATION NAME: COMFORT COVE, NOTRE DAME BAY
STATION NUMBER: 118
INSTRUMENT TYPE: Seamon UTR-A (Hugrun)
INSTRUMENT S/N: 3213
LATITUDE: 49.41° N
LONGITUDE: 54.83° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 21-NOV-1990 20:00 GMT
RECOVERY DATE/TIME: 7-MAY-1991 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
NOV-1990	3.30	334	4.90	328	4.07	0.46	40.9	2.2	220
DEC-1990	-0.70	365	3.40	335	1.55	1.05	49.0	0.0	744
JAN-1991	-1.90	5	-0.20	29	-1.45	0.39	0.0	0.0	744
FEB-1991	-1.80	39	0.00	44	-0.71	0.34	0.0	0.0	672
MAR-1991	-1.50	78	-0.60	71	-1.12	0.20	0.0	0.0	744
APR-1991	-1.60	105	-1.10	91	-1.41	0.09	0.0	0.0	720
MAY-1991	-1.50	121	-1.20	121	-1.39	0.06	0.0	0.0	157
Total Period	-1.90	5	4.90	328	-0.39	1.62	89.8	2.2	4001

76



Start: 21-NOV-1990

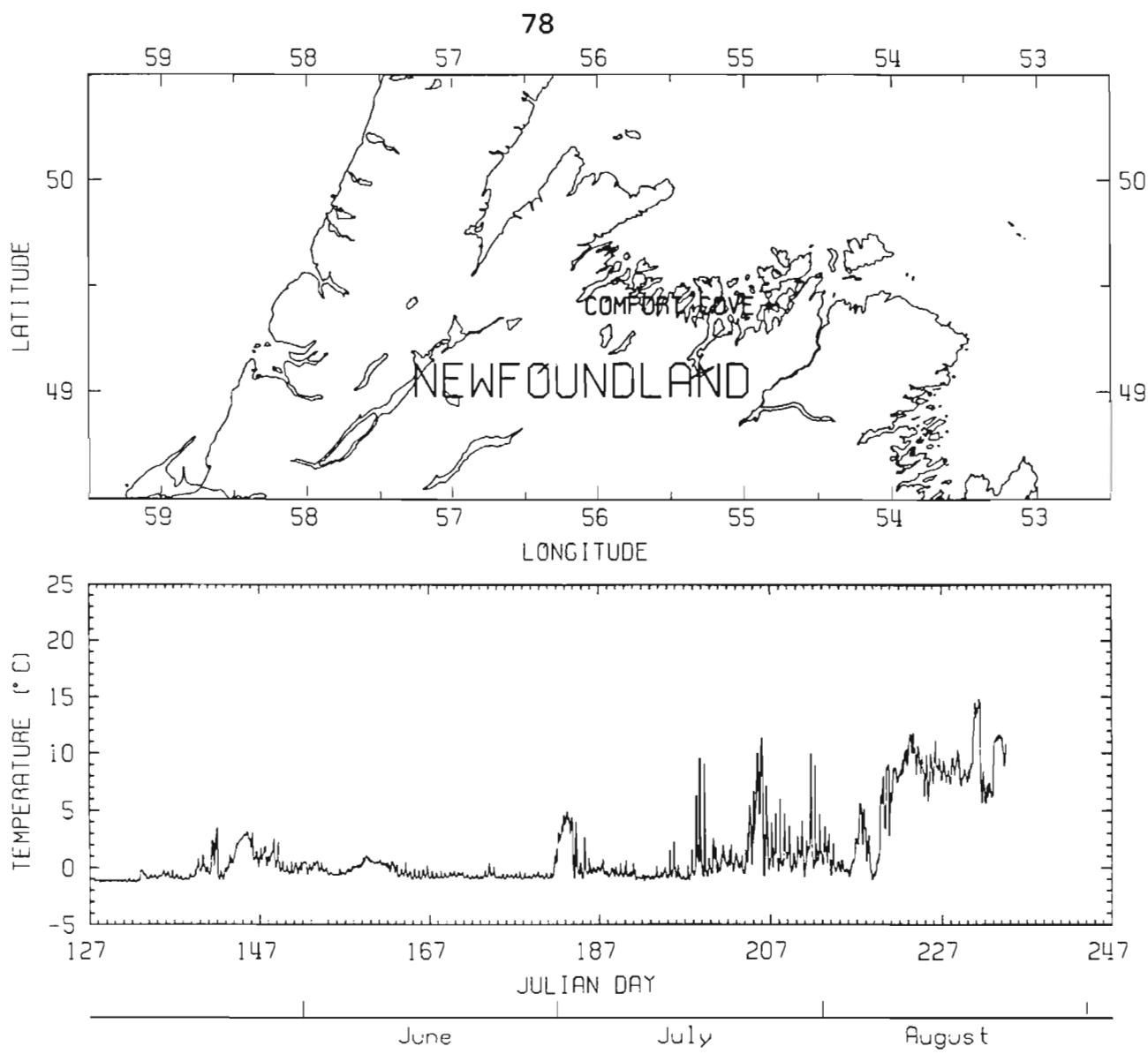
End: 7-MAY-1991

THERMOGRAPH DATA SUMMARY

STATION NAME: COMFORT COVE, NOTRE DAME BAY
STATION NUMBER: 118
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 4323
LATITUDE: 49.41° N
LONGITUDE: 54.83° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 7-MAY-1991 14:00 GMT
RECOVERY DATE/TIME: 22-AUG-1991 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1991	-1.30	131	3.60	142	-0.08	1.17	9.7	0.0	586
JUN-1991	-1.10	180	1.30	181	-0.39	0.51	2.1	0.0	720
JUL-1991	-1.25	192	11.35	206	0.91	2.27	34.5	2.5	744
AUG-1991	-1.10	218	14.85	231	6.41	4.08	142.5	73.8	519
Total Period	-1.30	131	14.85	231	1.43	3.43	188.7	76.3	2569



Start: 7-MAY-1991

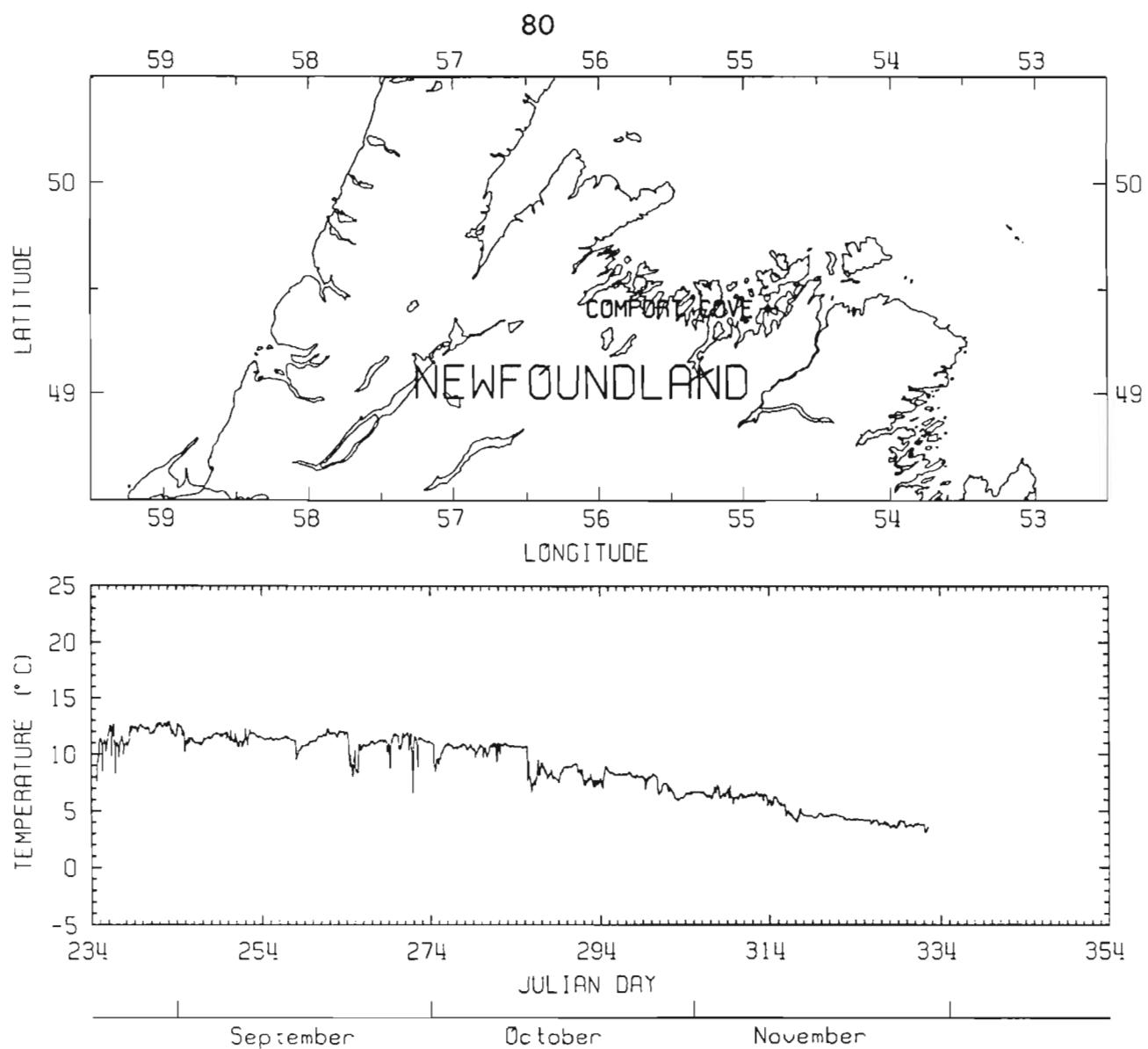
End: 22-AUG-1991

THERMOGRAPH DATA SUMMARY

STATION NAME: COMFORT COVE, NOTRE DAME BAY
STATION NUMBER: 118
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 6596
LATITUDE: 49.41° N
LONGITUDE: 54.83° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 22-AUG-1991 16:00 GMT
RECOVERY DATE/TIME: 28-NOV-1991 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
AUG-1991	7.60	234	12.90	242	11.73	0.93	115.8	75.8	224
SEP-1991	6.50	271	12.70	244	11.21	0.73	336.4	216.4	720
OCT-1991	5.90	303	11.10	274	8.85	1.47	274.3	150.3	744
NOV-1991	3.10	332	7.30	307	5.04	1.11	140.4	30.0	663
Total Period	3.10	332	12.90	242	8.77	2.81	866.9	472.5	2351



Start: 22-AUG-1991

End: 28-NOV-1991

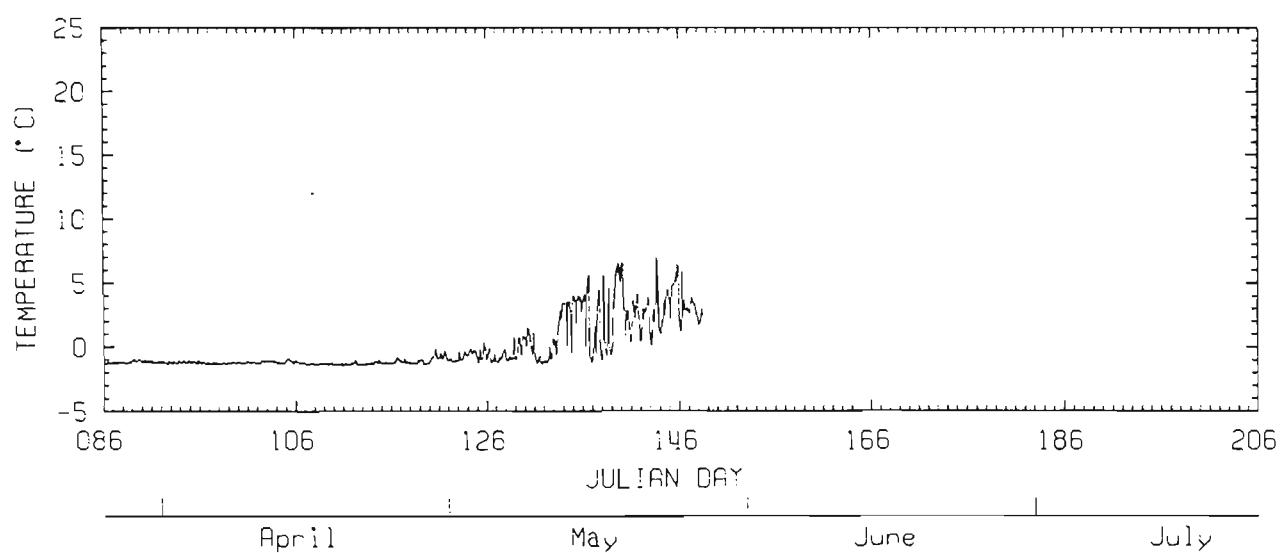
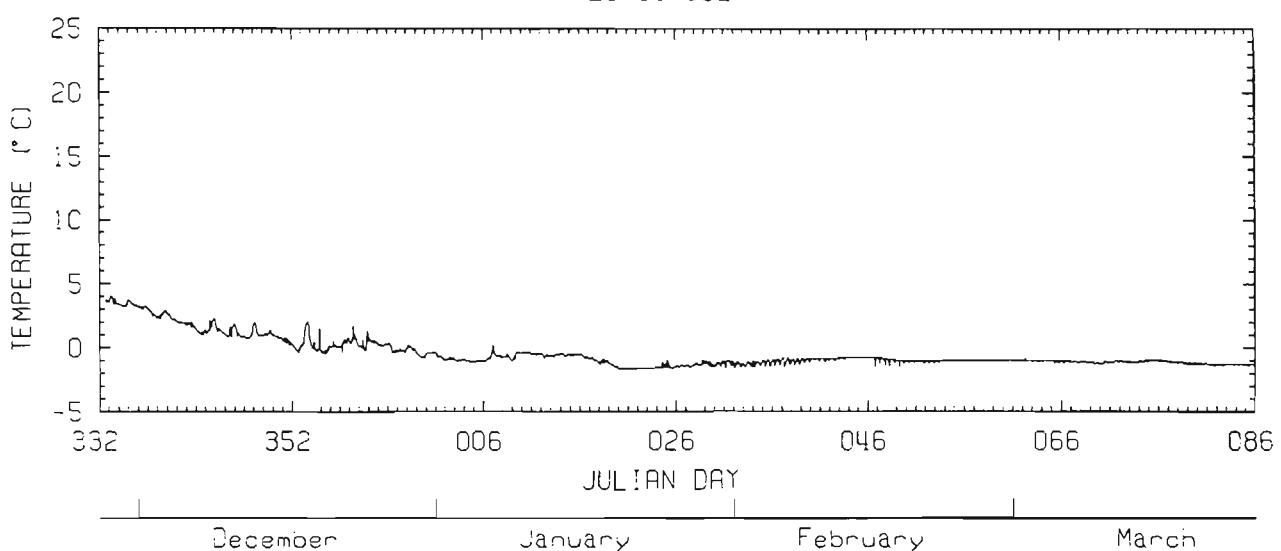
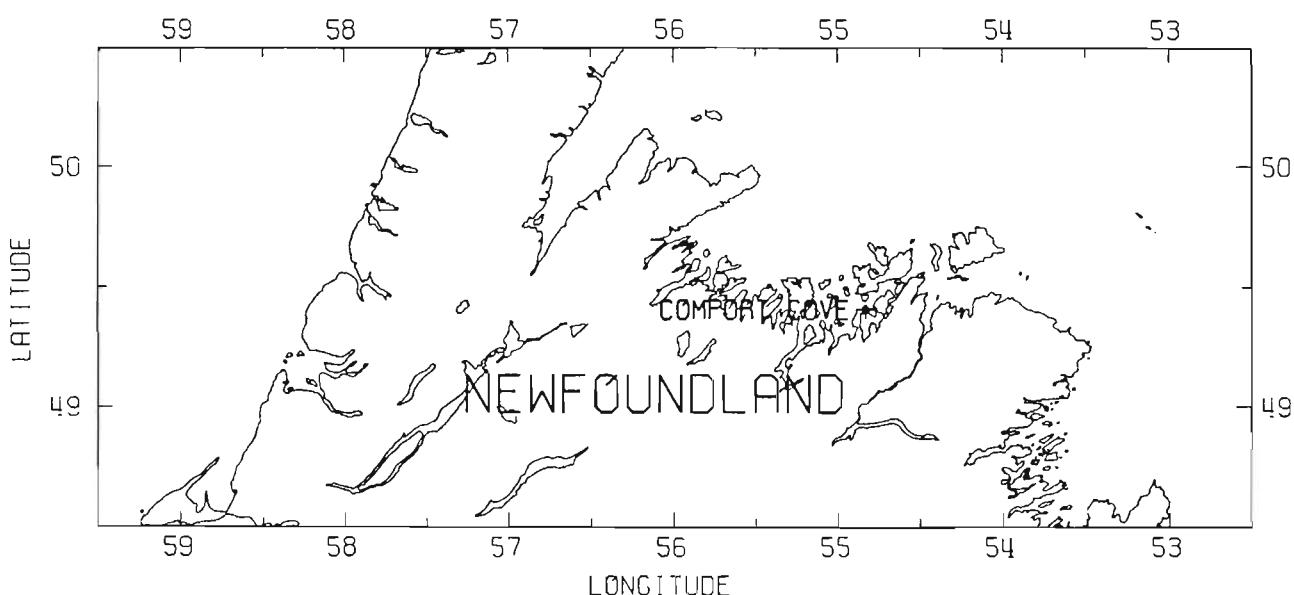
THERMOGRAPH DATA SUMMARY

STATION NAME: COMFORT COVE, NOTRE DAME BAY
STATION NUMBER: 118
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 4325
LATITUDE: 49.41° N
LONGITUDE: 54.83° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 28-NOV-1991 15:00 GMT
RECOVERY DATE/TIME: 27-MAY-1992 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
NOV-1991	3.20	334	4.05	333	3.51	0.23	10.6	0.0	57
DEC-1991	-0.85	365	3.70	335	1.01	1.05	32.6	0.0	744
JAN-1992	-1.65	20	0.20	6	-1.01	0.42	0.0	0.0	744
FEB-1992	-1.60	32	-0.65	46	-0.99	0.19	0.0	0.0	696
MAR-1992	-1.40	81	-0.85	61	-1.14	0.12	0.0	0.0	744
APR-1992	-1.45	96	-0.05	120	-1.23	0.17	0.0	0.0	720
MAY-1992	-1.35	131	7.05	143	1.35	2.21	43.8	1.2	637
Total Period	-1.65	20	7.05	143	-0.31	1.50	87.0	1.2	4342

82



Start: 28-NOV-1991

End: 27-MAY-1992

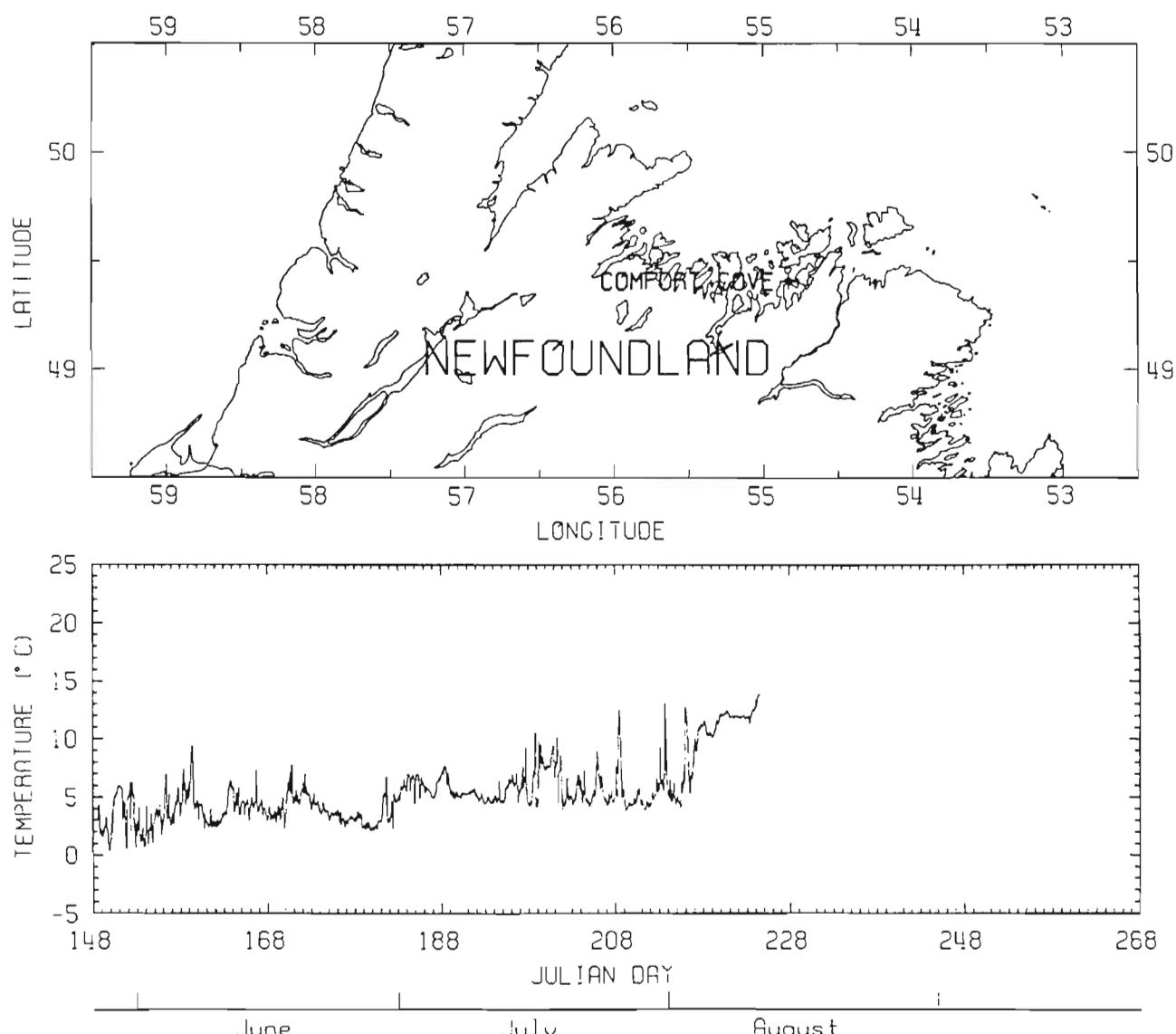
THERMOGRAPH DATA SUMMARY

STATION NAME: COMFORT COVE, NOTRE DAME BAY
STATION NUMBER: 118
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3262
LATITUDE: 49.41° N
LONGITUDE: 54.83° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 27-MAY-1992 13:00 GMT
RECOVERY DATE/TIME: 11-AUG-1992 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1992	0.20	149	6.30	152	3.53	1.82	17.3	0.5	107
JUN-1992	0.60	153	9.30	159	3.84	1.32	115.2	10.3	720
JUL-1992	3.80	201	13.10	213	5.77	1.46	178.9	54.9	744
AUG-1992	4.00	215	13.90	224	10.09	2.76	112.4	68.4	254
Total Period	0.20	149	13.90	224	5.48	2.66	423.9	134.2	1825

84



Start: 27-MAY-1992

End: 11-AUG-1992

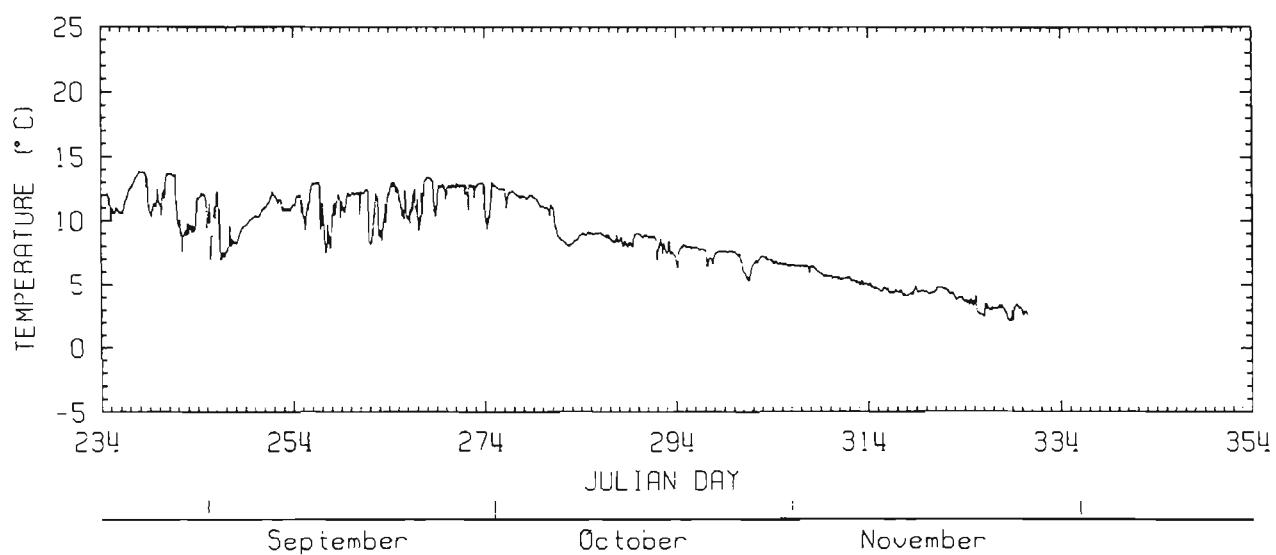
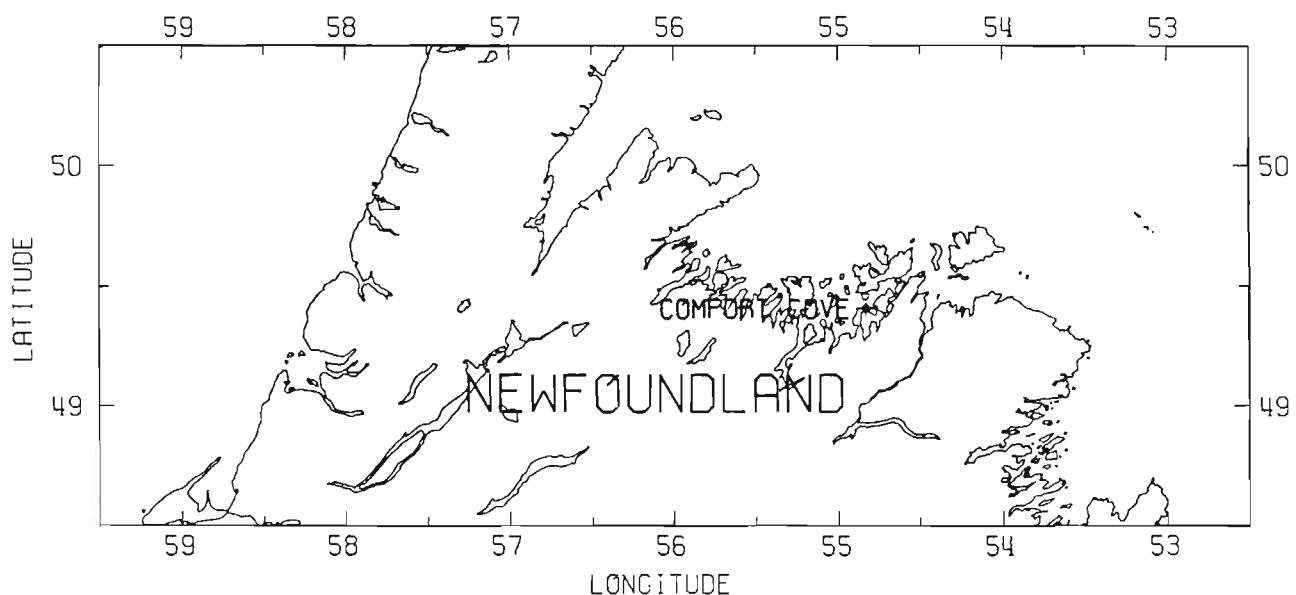
THERMOGRAPH DATA SUMMARY

STATION NAME: COMFORT COVE, NOTRE DAME BAY
STATION NUMBER: 118
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 7880
LATITUDE: 49.41° N
LONGITUDE: 54.83° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 21-AUG-1992 16:00 GMT
RECOVERY DATE/TIME: 25-NOV-1992 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
AUG-1992	7.50	242	13.90	237	11.52	1.53	126.8	82.8	248
SEP-1992	6.70	246	13.50	268	11.11	1.55	333.4	213.4	720
OCT-1992	5.20	301	12.80	275	8.65	1.79	268.0	144.0	744
NOV-1992	2.10	328	6.60	306	4.53	1.12	112.5	19.0	591
Total Period	2.10	328	13.90	237	8.67	3.08	840.8	459.3	2303

86



Start: 21-AUG-1992

End: 25-NOV-1992

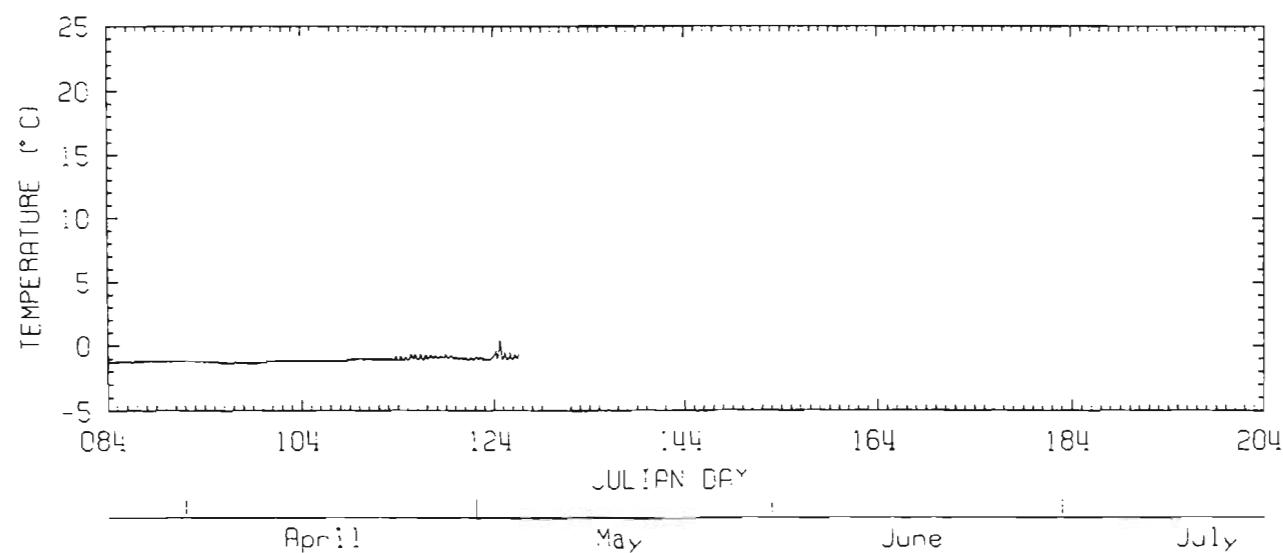
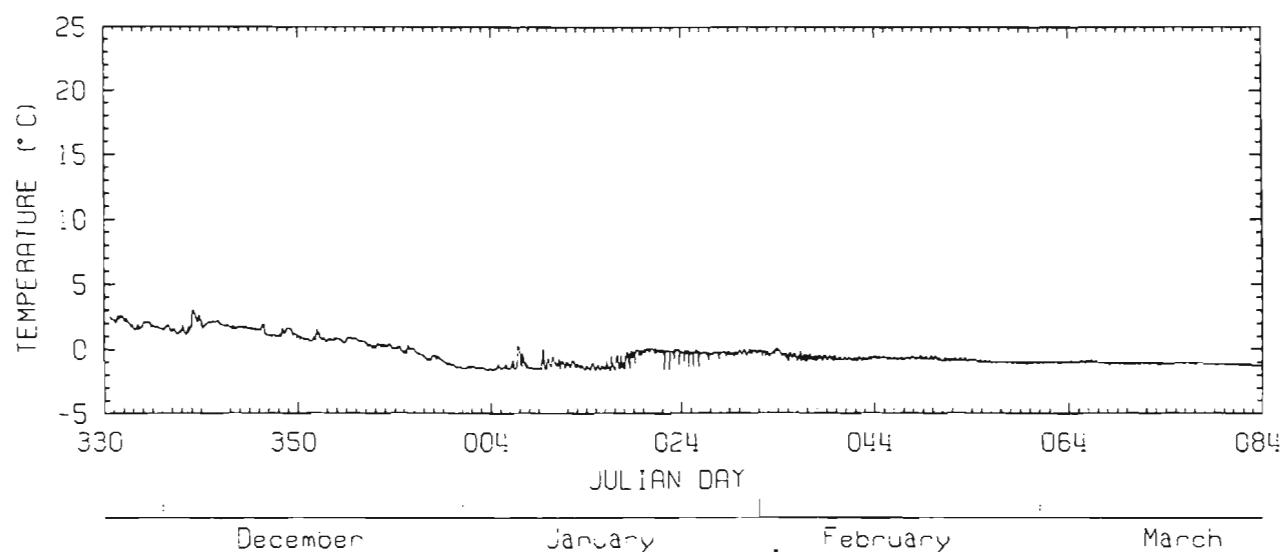
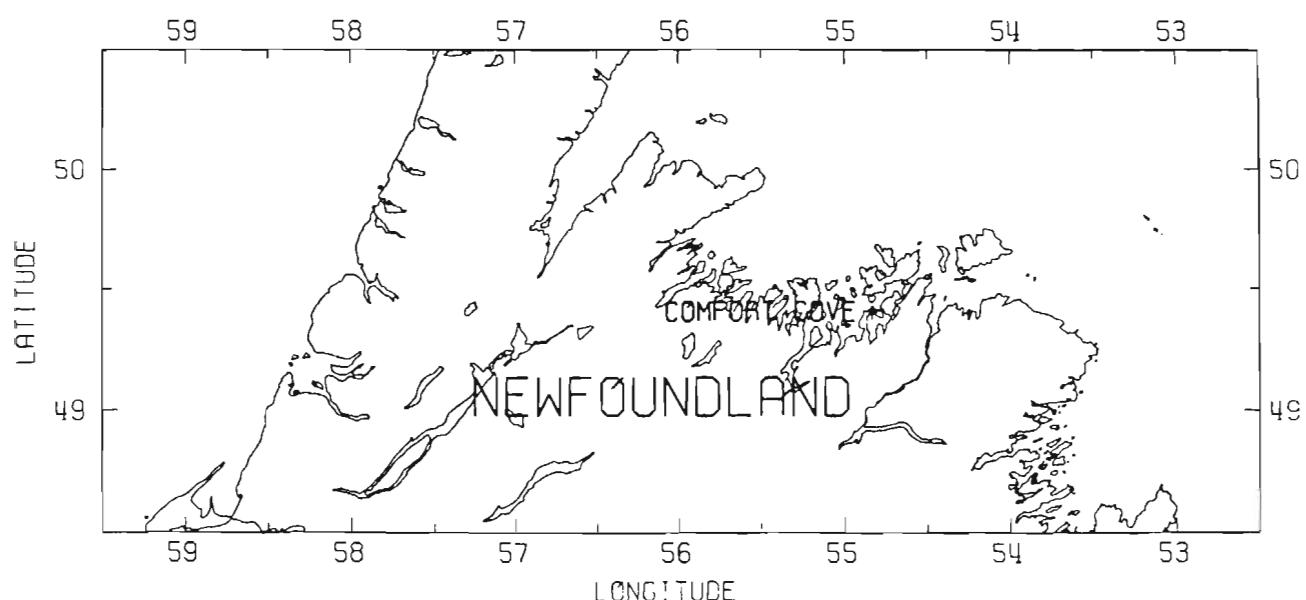
THERMOGRAPH DATA SUMMARY

STATION NAME: COMFORT COVE, NOTRE DAME BAY
STATION NUMBER: 118
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 7818
LATITUDE: 49.41° N
LONGITUDE: 54.83° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 25-NOV-1992 15:00 GMT
RECOVERY DATE/TIME: 6-MAY-1993 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
NOV-1992	1.45	333	2.60	331	1.99	0.32	12.2	0.0	129
DEC-1992	-1.40	366	3.00	339	0.80	0.95	29.0	0.0	744
JAN-1993	-1.70	17	0.30	6	-0.83	0.58	0.0	0.0	744
FEB-1993	-1.15	58	0.05	33	-0.72	0.24	0.0	0.0	672
MAR-1993	-1.35	83	-0.75	66	-1.11	0.11	0.0	0.0	744
APR-1993	-1.45	96	-0.65	115	-1.14	0.15	0.0	0.0	720
MAY-1993	-1.20	122	0.40	124	-0.91	0.28	0.0	0.0	135
Total Period	-1.70	17	3.00	339	-0.52	0.98	41.1	0.0	3888

88



Start: 25-NOV-1992

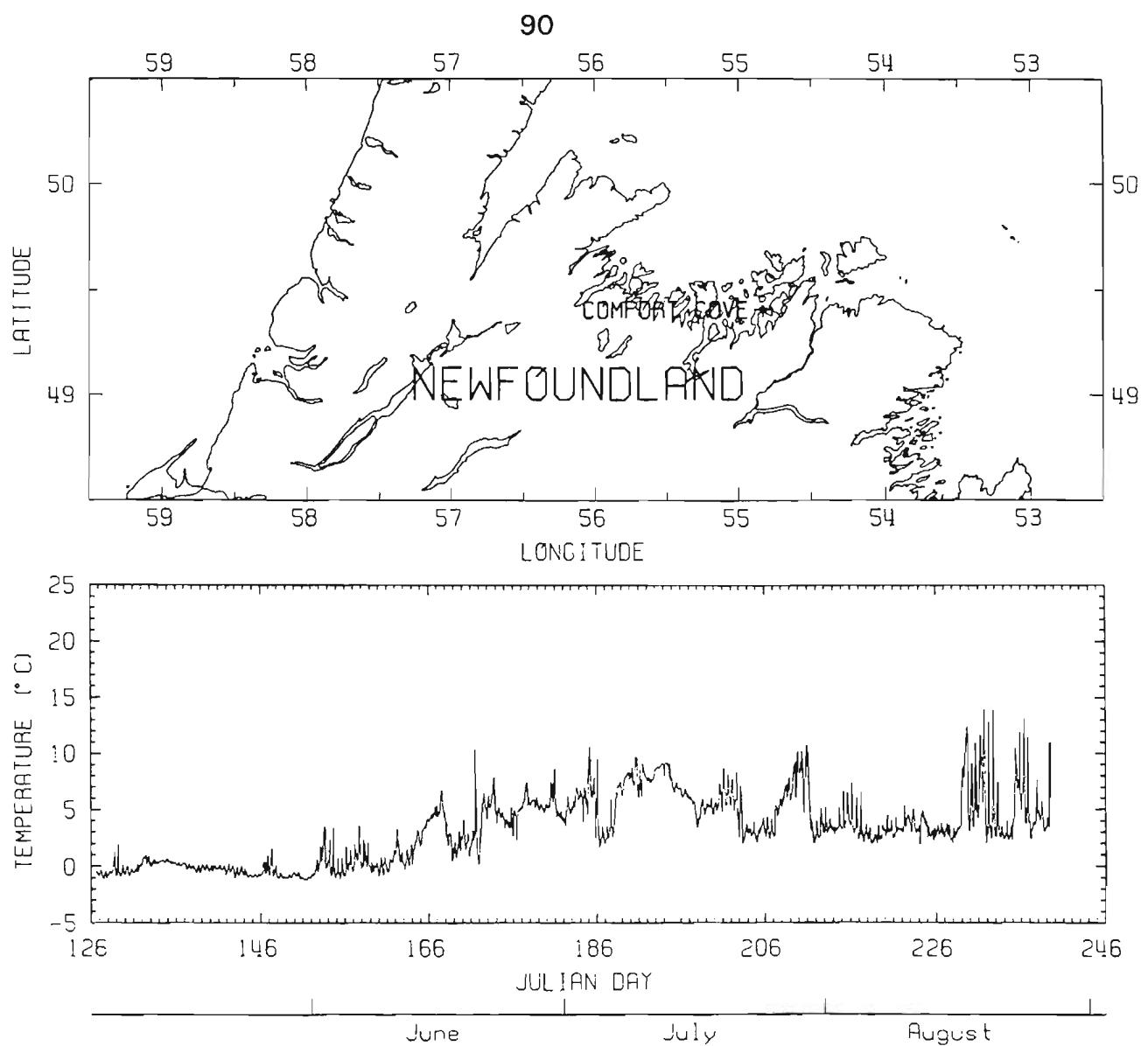
End: 6-MAY-1993

THERMOGRAPH DATA SUMMARY

STATION NAME: COMFORT COVE, NOTRE DAME BAY
STATION NUMBER: 118
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3263
LATITUDE: 49.41° N
LONGITUDE: 54.83° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 6-MAY-1993 15:00 GMT
RECOVERY DATE/TIME: 27-AUG-1993 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1993	-1.20	151	1.90	129	-0.29	0.54	1.8	0.0	609
JUN-1993	-1.10	155	10.35	171	2.65	2.35	80.4	12.8	720
JUL-1993	1.70	186	10.80	210	5.80	2.08	179.8	60.5	744
AUG-1993	1.90	218	13.85	231	4.28	2.36	116.2	20.8	639
Total Period	-1.20	151	13.85	231	3.24	2.99	378.3	94.1	2712



Start: 6-MAY-1993

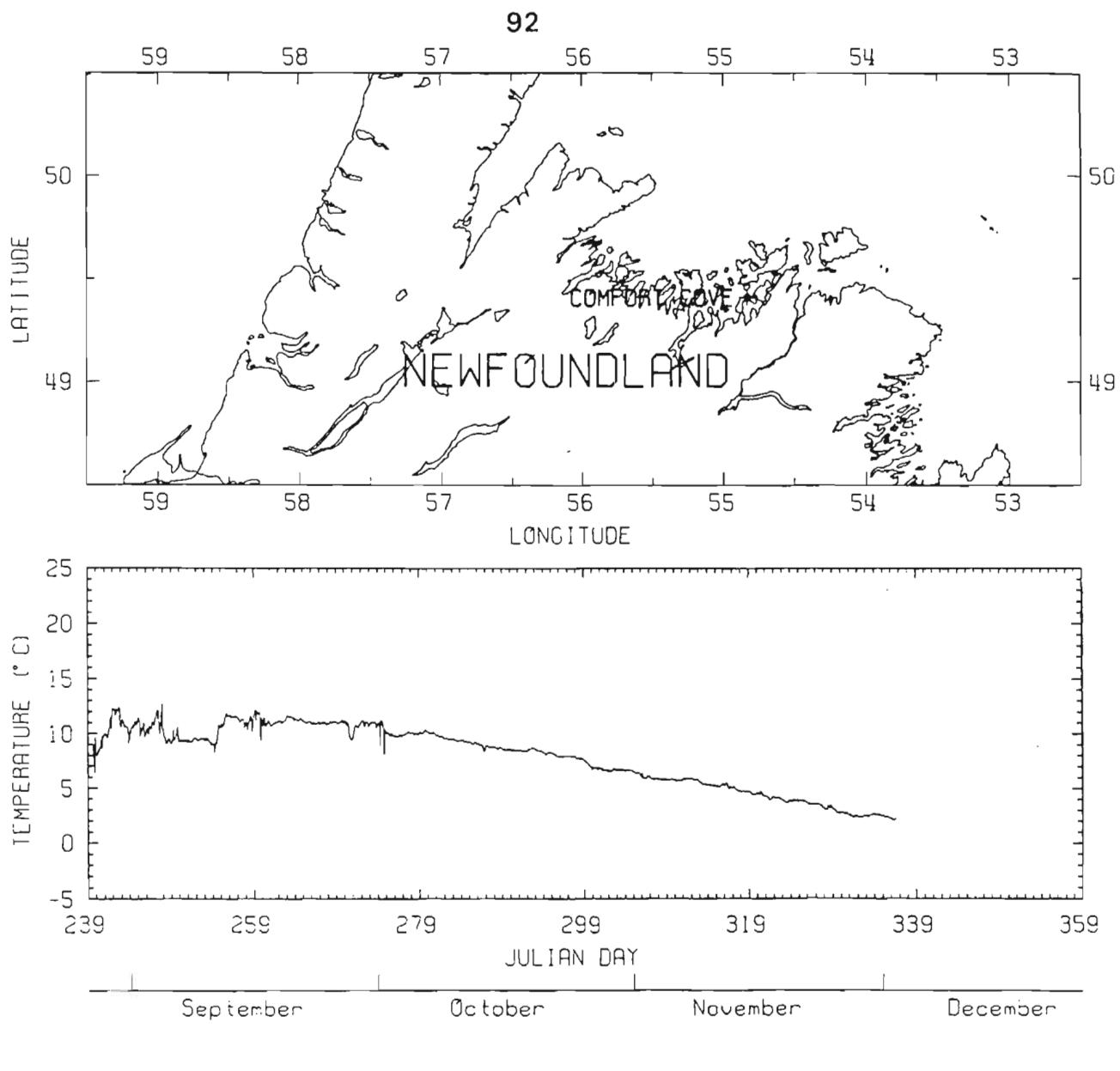
End: 27-AUG-1993

THERMOGRAPH DATA SUMMARY

STATION NAME: COMFORT COVE, NOTRE DAME BAY
STATION NUMBER: 118
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 8962
LATITUDE: 49.41° N
LONGITUDE: 54.83° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 27-AUG-1993 15:00 GMT
RECOVERY DATE/TIME: 2-DEC-1993 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
AUG-1993	6.35	239	12.45	242	10.24	1.39	49.9	29.9	105
SEP-1993	8.25	254	12.70	247	10.64	0.80	319.2	199.2	720
OCT-1993	6.50	301	11.15	274	8.63	1.16	267.5	143.5	744
NOV-1993	2.30	331	6.60	305	4.44	1.25	133.2	23.8	720
DEC-1993	2.05	336	2.55	335	2.31	0.12	4.6	0.0	40
Total Period	2.05	336	12.70	247	7.92	2.86	774.4	396.3	2329



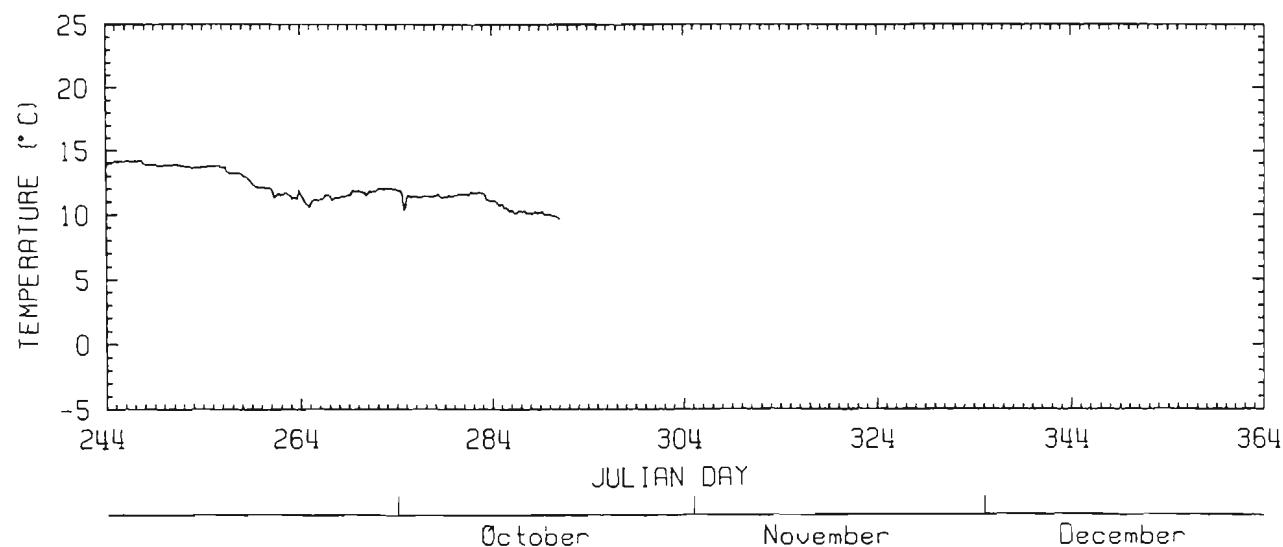
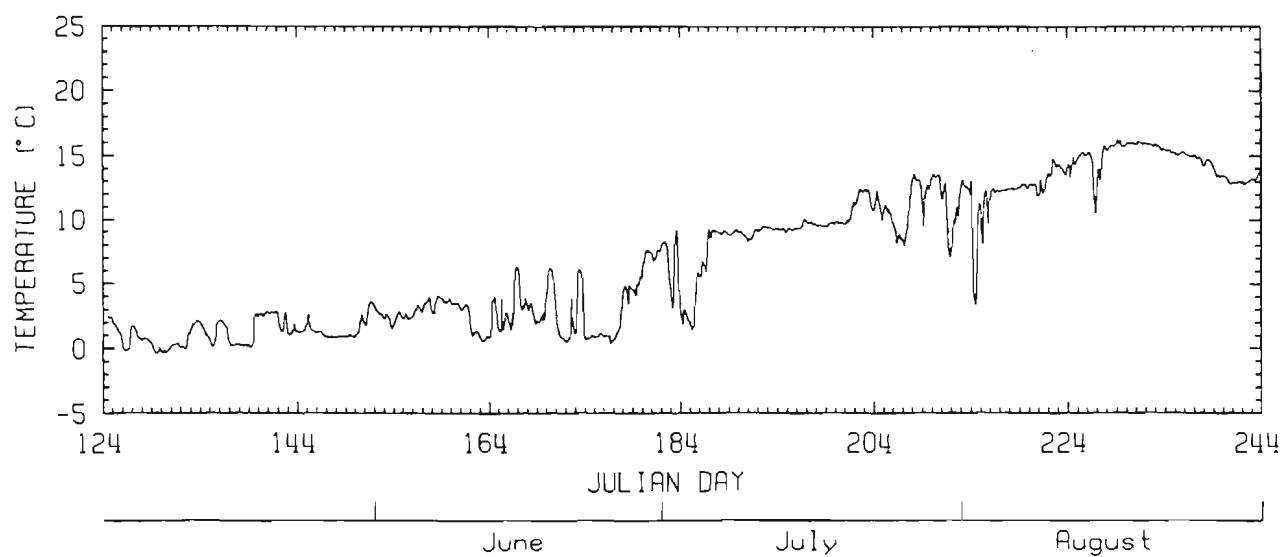
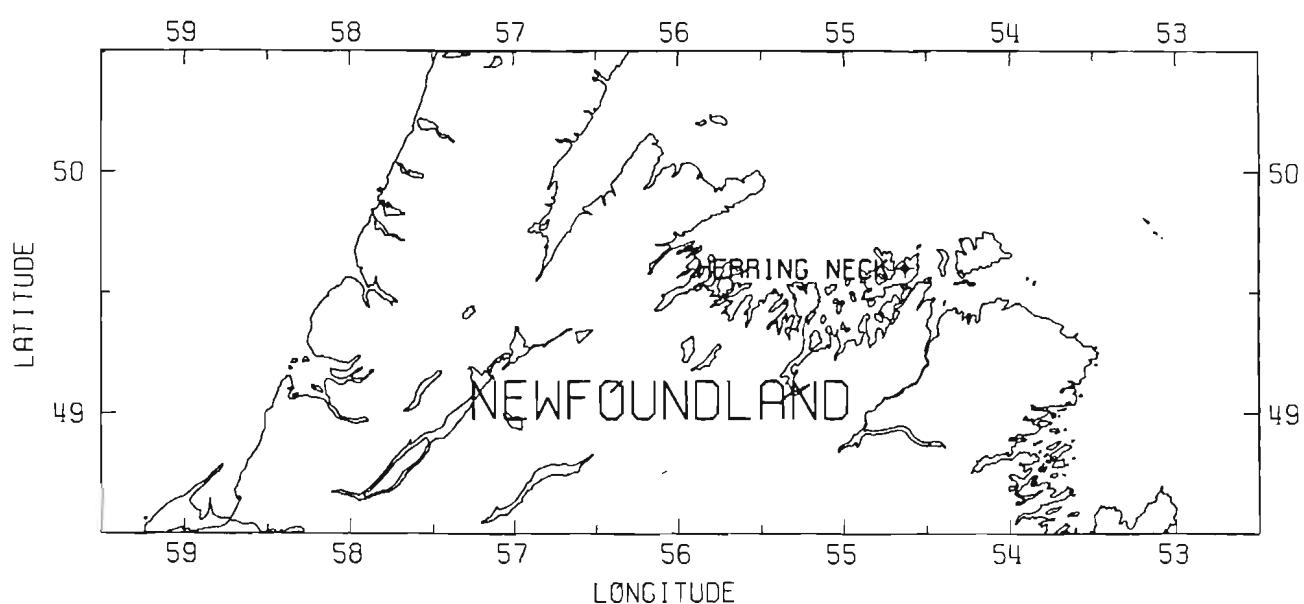
THERMOGRAPH DATA SUMMARY

STATION NAME: HERRING NECK
STATION NUMBER: 125
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 63302
LATITUDE: 49.60° N
LONGITUDE: 54.63° W
INSTRUMENT DEPTH: 13 m
WATER DEPTH: 13 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 4-MAY-1990 13:00 GMT
RECOVERY DATE/TIME: 18-OCT-1990 02:39 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1990	-0.36	129	3.60	151	1.18	0.93	34.9	0.0	325
JUN-1990	0.40	176	7.65	181	3.08	1.83	89.3	8.8	407
JUL-1990	1.42	185	13.62	210	9.15	2.62	289.3	167.1	456
AUG-1990	3.42	214	16.24	229	13.51	2.17	427.2	303.2	434
SEP-1990	10.51	264	14.25	246	12.61	1.14	379.6	259.6	357
OCT-1990	9.62	291	11.89	274	10.93	0.66	195.7	123.7	207
Total Period	-0.36	129	16.24	229	8.43	5.02	1416.0	862.4	2186

94



Start: 4-MAY-1990

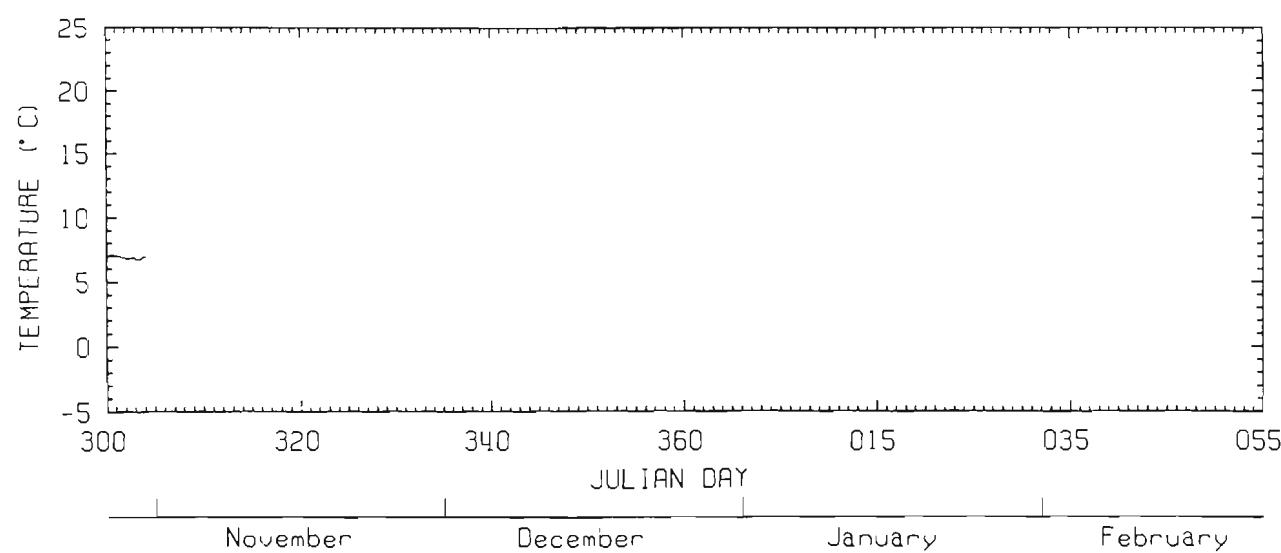
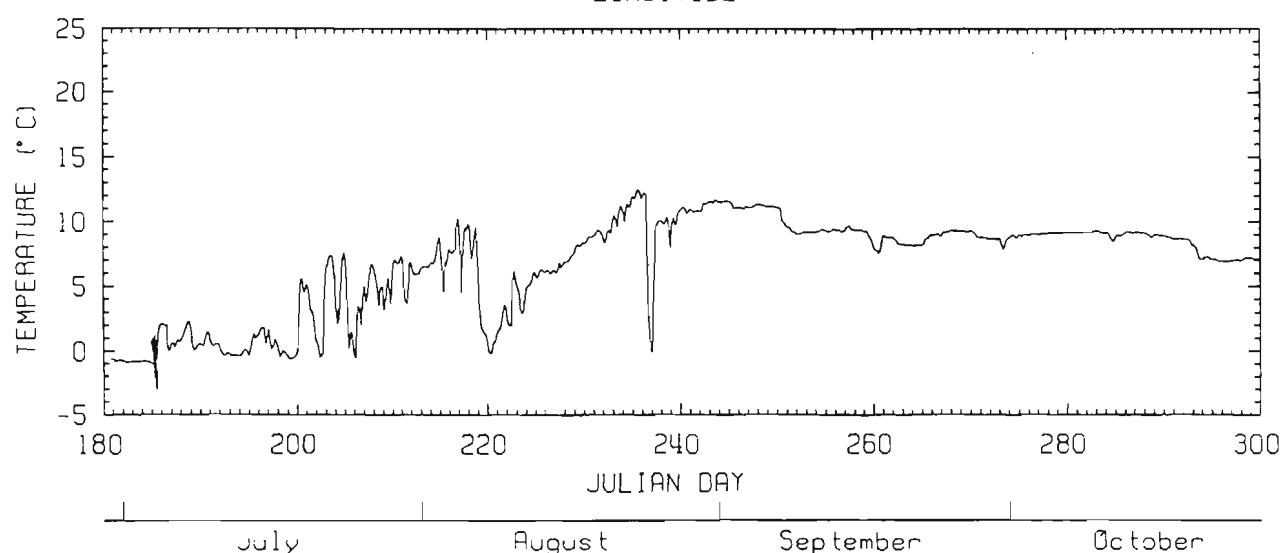
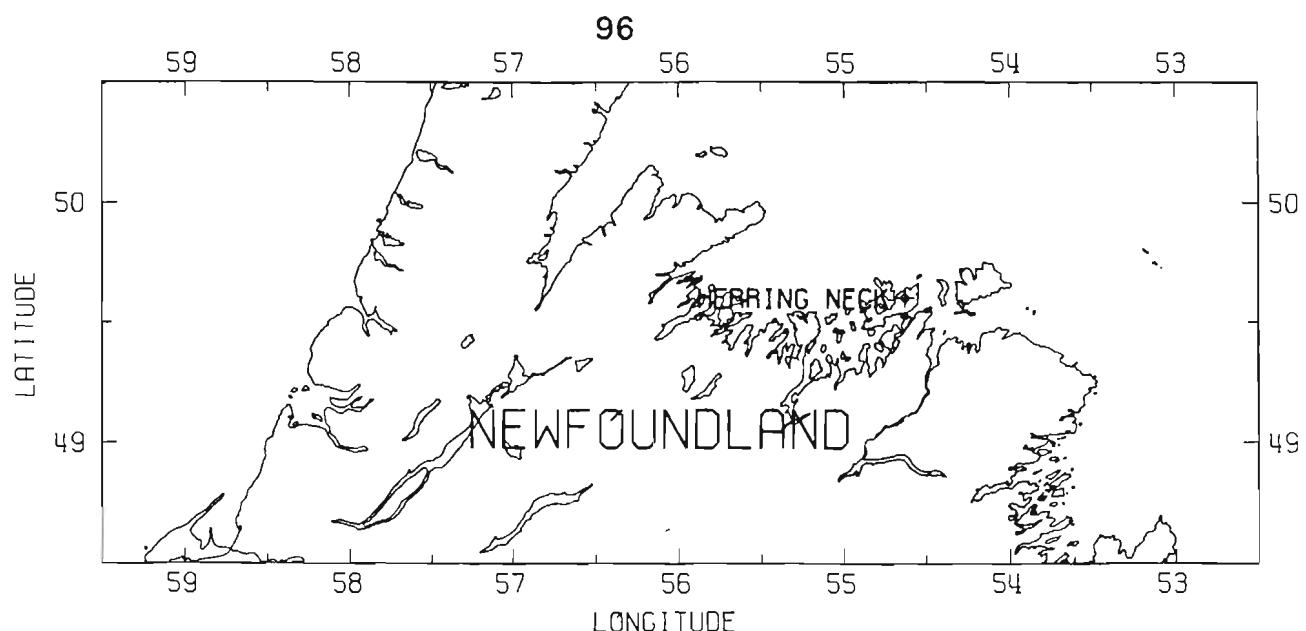
End: 18-OCT-1990

THERMOGRAPH DATA SUMMARY

STATION NAME: HERRING NECK
STATION NUMBER: 125
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 63420
LATITUDE: 49.60° N
LONGITUDE: 54.63° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 13 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 29-JUN-1991 18:39 GMT
RECOVERY DATE/TIME: 31-OCT-1991 03:26 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1991	-0.80	181	-0.61	180	-0.70	0.07	0.0	0.0	8
JUL-1991	-1.02	185	7.68	204	2.03	2.60	65.6	12.5	197
AUG-1991	-0.16	220	12.48	235	7.58	3.21	235.8	119.4	194
SEP-1991	7.57	260	11.60	244	9.28	0.96	283.1	163.1	129
OCT-1991	6.71	303	9.31	283	8.33	0.91	255.3	131.3	113
Total Period	-1.02	185	12.48	235	6.25	3.84	839.7	426.3	641



Start: 29-JUN-1991

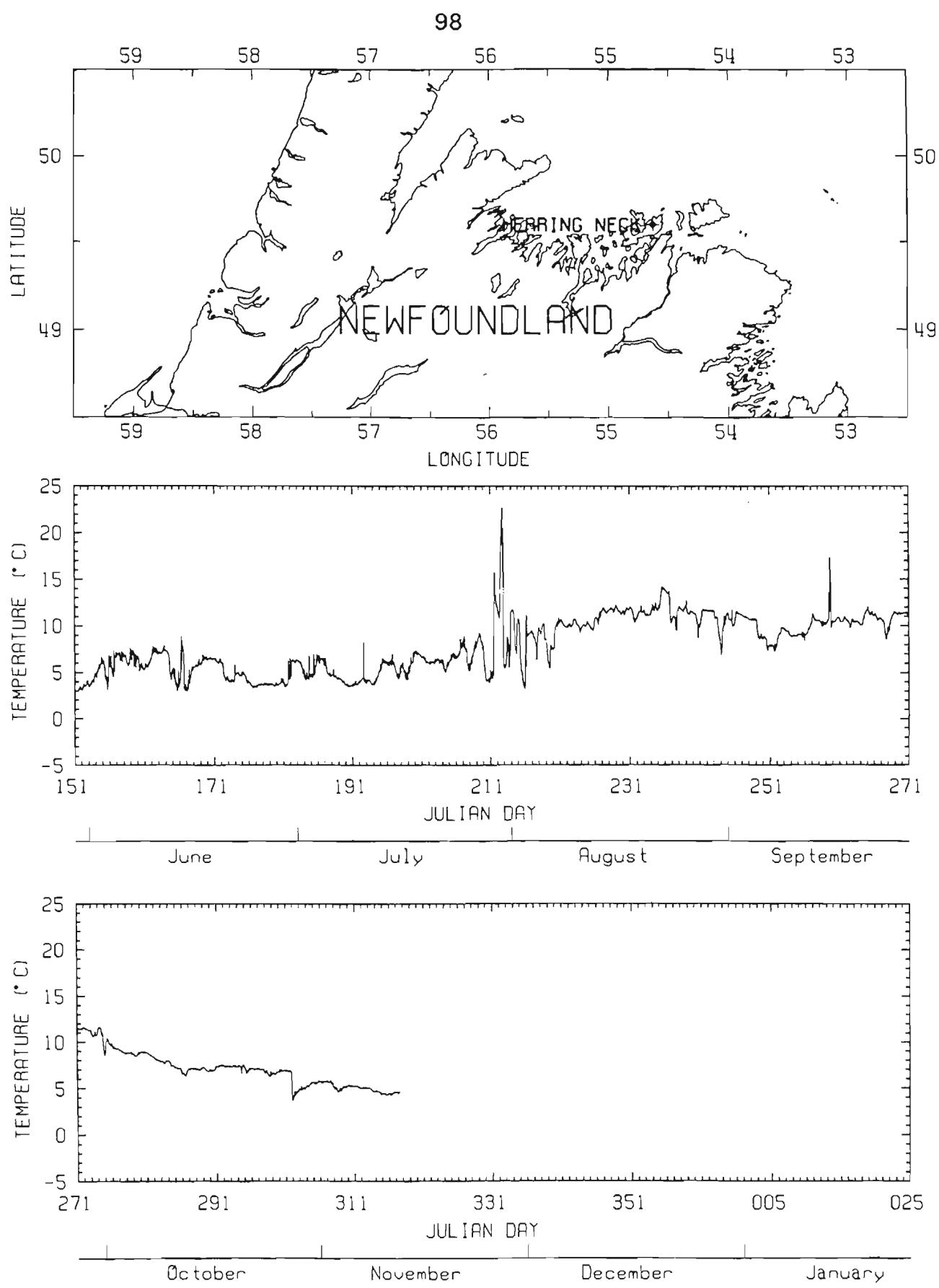
End: 31-OCT-1991

THERMOGRAPH DATA SUMMARY

STATION NAME: HERRING NECK
STATION NUMBER: 125
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 6640
LATITUDE: 49.60° N
LONGITUDE: 54.63° W
INSTRUMENT DEPTH: 13 m
WATER DEPTH: 13 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 30-MAY-1992 13:00 GMT
RECOVERY DATE/TIME: 12-NOV-1992 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1992	3.00	151	4.20	152	3.48	0.29	6.9	0.0	35
JUN-1992	2.90	167	8.90	166	5.27	1.32	158.2	39.8	720
JUL-1992	3.40	190	22.70	212	6.06	2.43	187.9	64.5	744
AUG-1992	3.20	216	14.20	235	10.53	1.73	326.6	202.6	744
SEP-1992	7.20	251	17.30	259	10.35	1.14	310.5	190.5	720
OCT-1992	3.60	302	10.40	275	7.26	1.23	225.2	101.2	744
NOV-1992	4.20	315	5.80	307	4.95	0.43	59.2	11.2	278
Total Period	2.90	167	22.70	212	7.65	2.75	1274.3	609.6	3985

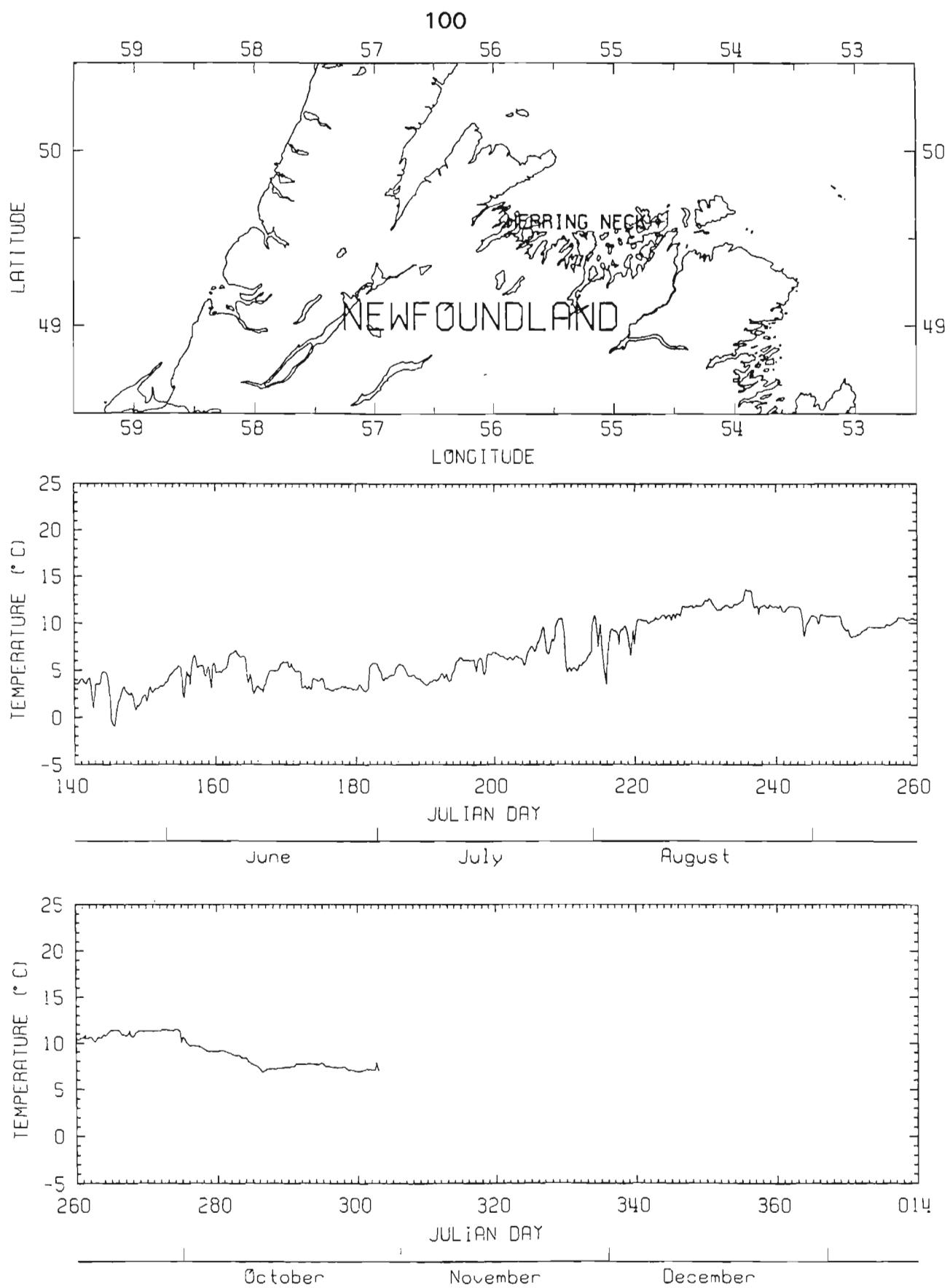


THERMOGRAPH DATA SUMMARY

STATION NAME: HERRING NECK
STATION NUMBER: 125
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 63800
LATITUDE: 49.60° N
LONGITUDE: 54.63° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 13 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 19-MAY-1992 06:10 GMT
RECOVERY DATE/TIME: 29-OCT-1992 01:29 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1992	-0.94	145	4.86	144	2.70	1.29	35.3	0.4	78
JUN-1992	2.03	155	7.08	162	4.43	1.25	132.5	21.8	185
JUL-1992	3.40	190	10.61	209	5.86	1.57	181.6	58.2	190
AUG-1992	3.42	215	13.59	235	10.83	1.59	335.7	211.7	190
SEP-1992	8.46	250	11.55	272	10.48	0.78	314.4	194.4	184
OCT-1992	6.83	286	10.63	275	7.95	0.94	229.5	113.5	165
Total Period	-0.94	145	13.59	235	7.50	3.09	1229.0	600.0	992



Start: 19-MAY-1992

End: 29-OCT-1992

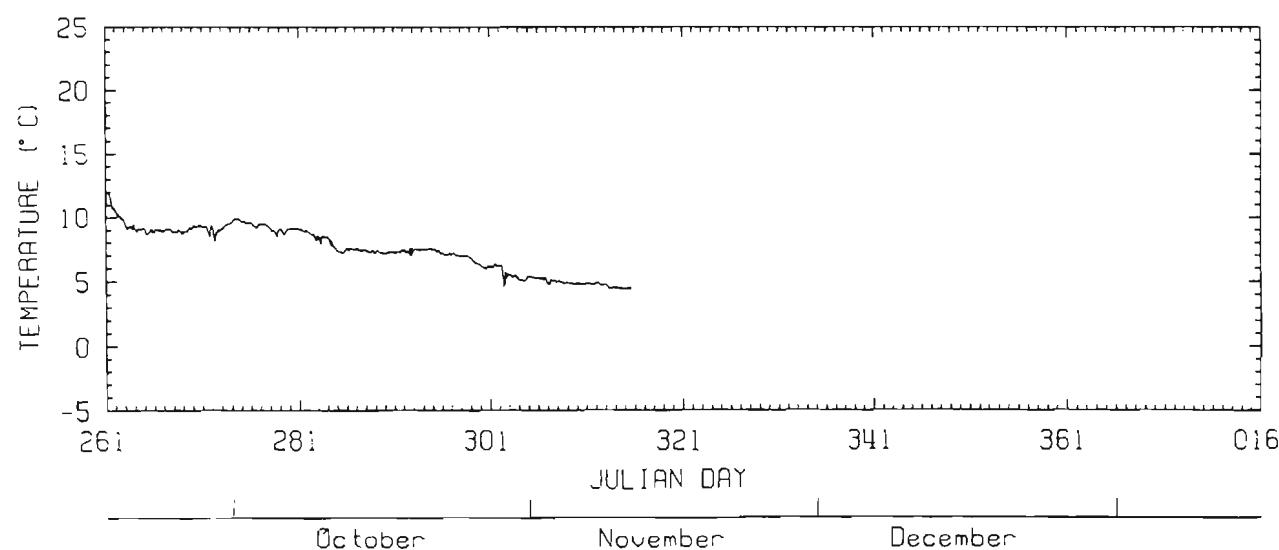
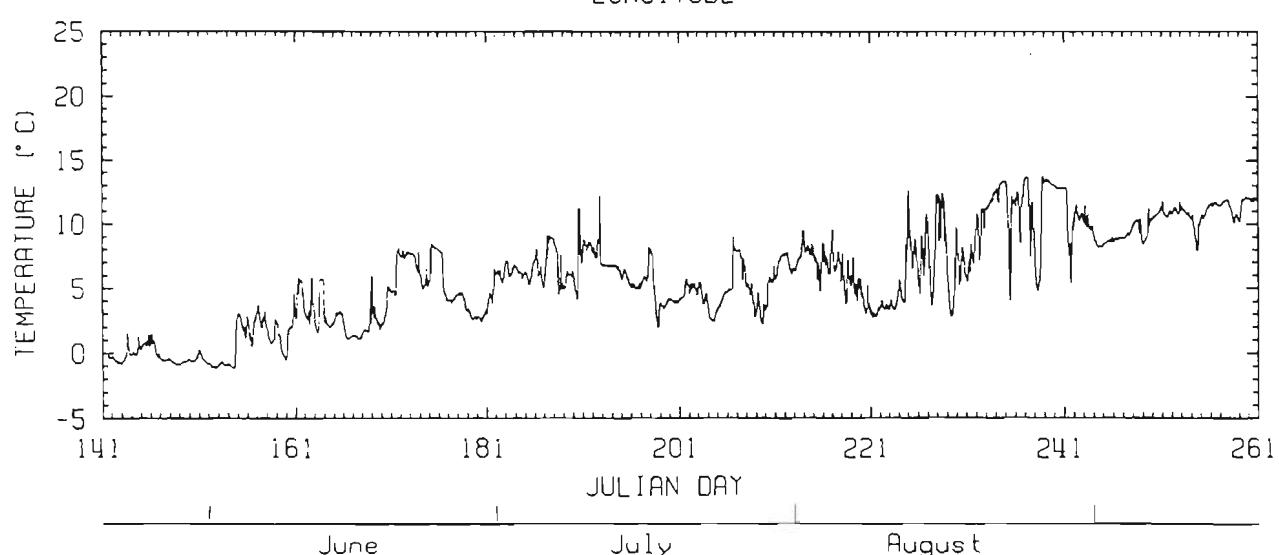
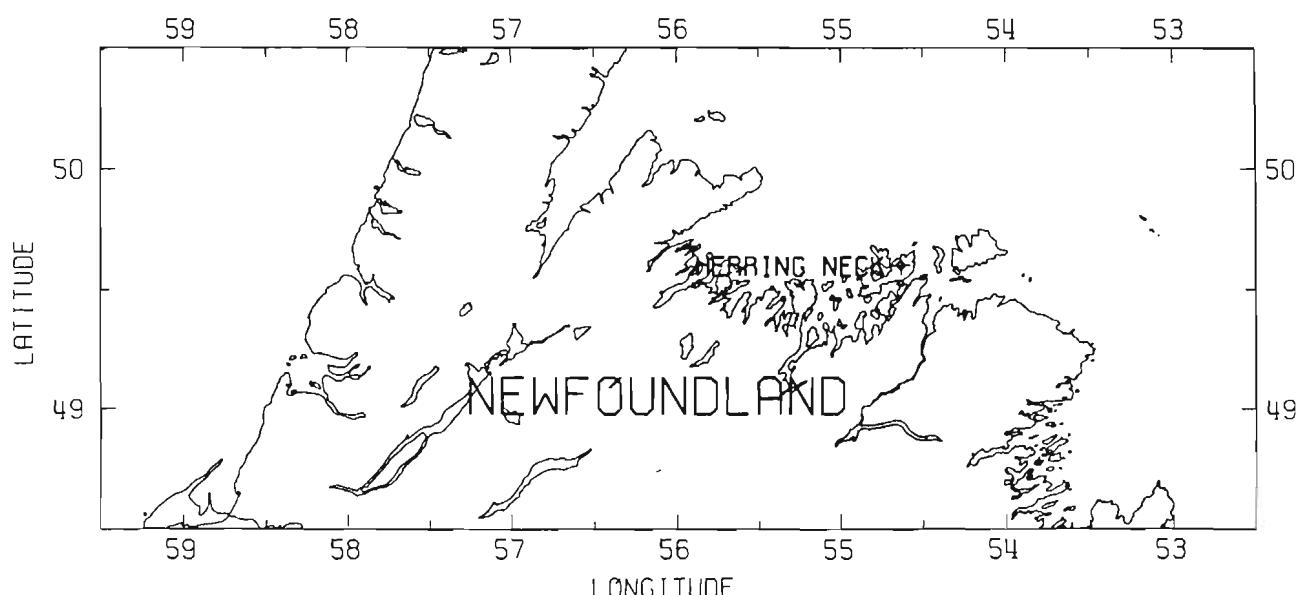
THERMOGRAPH DATA SUMMARY

STATION NAME: HERRING NECK
STATION NUMBER: 125
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 7940
LATITUDE: 49.60° N
LONGITUDE: 54.63° W
INSTRUMENT DEPTH: 13 m
WATER DEPTH: 13 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 21-MAY-1993 13:00 GMT
RECOVERY DATE/TIME: 11-NOV-1993 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1993	-0.90	142	1.55	143	-0.24	0.56	1.3	0.0	251
JUN-1993	-1.20	154	8.50	175	3.20	2.44	98.1	17.7	720
JUL-1993	1.95	198	12.30	192	5.81	1.66	180.0	58.1	744
AUG-1993	2.70	221	13.75	238	8.15	3.23	252.8	130.5	744
SEP-1993	7.90	254	12.10	259	9.88	1.13	296.4	176.4	720
OCT-1993	4.60	302	9.90	274	7.60	1.24	235.5	111.5	744
NOV-1993	4.35	314	5.35	305	4.83	0.26	53.0	9.0	257
Total Period	-1.20	154	13.75	238	6.37	3.38	1117.2	503.2	4180

102



Start: 21-MAY-1993

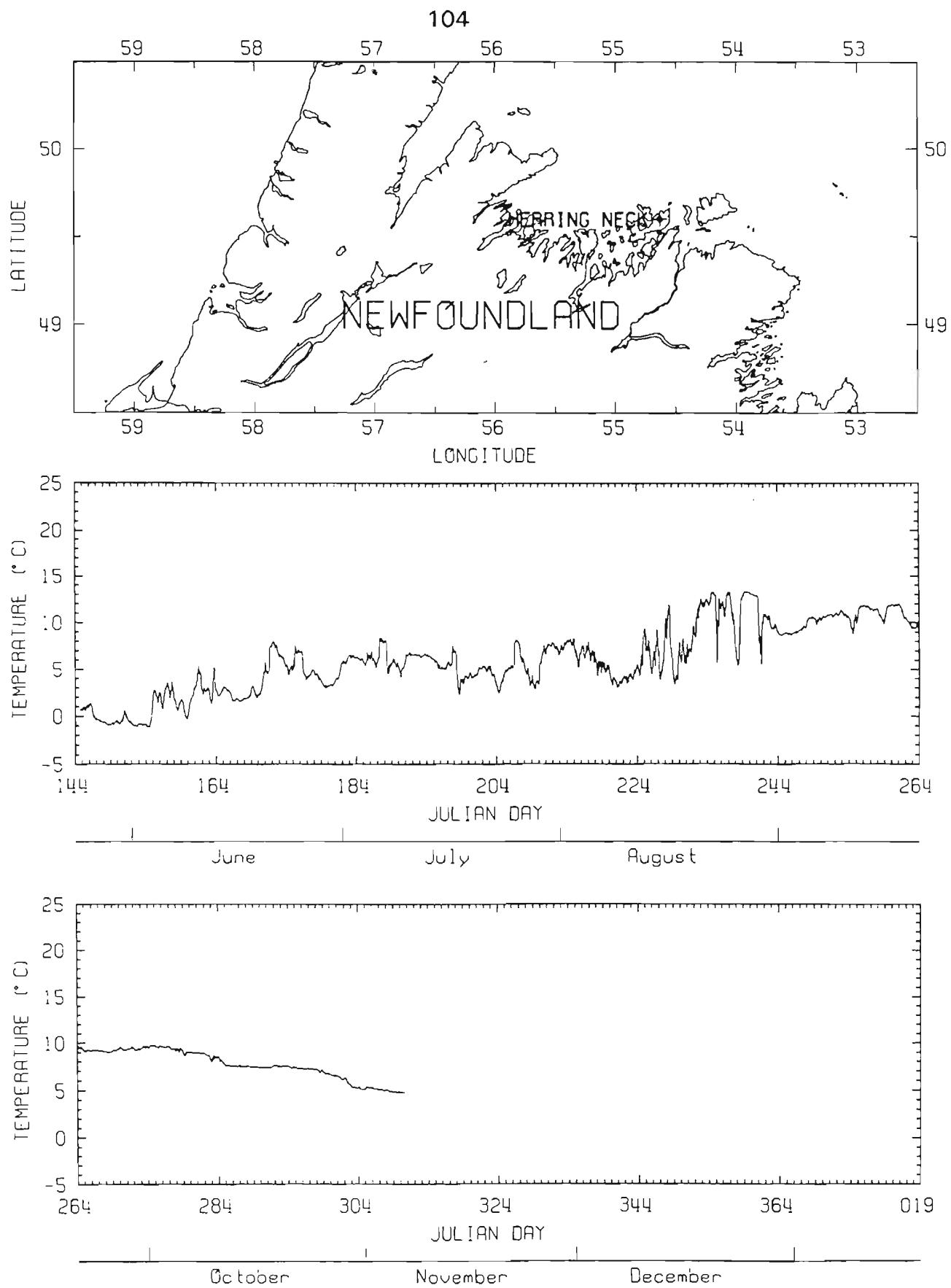
End: 11-NOV-1993

THERMOGRAPH DATA SUMMARY

STATION NAME: HERRING NECK
STATION NUMBER: 125
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 7934
LATITUDE: 49.60° N
LONGITUDE: 54.63° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 13 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 24-MAY-1993 17:00 GMT
RECOVERY DATE/TIME: 6-NOV-1993 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1993	-0.90	148	1.50	146	-0.15	0.67	2.0	0.0	175
JUN-1993	-1.15	154	7.95	172	3.03	2.15	93.3	13.7	720
JUL-1993	2.25	198	8.45	187	5.65	1.27	175.0	52.4	744
AUG-1993	3.00	221	13.30	237	8.03	3.06	249.0	125.5	744
SEP-1993	8.60	244	11.95	260	10.05	0.97	301.4	181.4	720
OCT-1993	5.10	304	9.75	274	7.69	1.18	238.2	114.2	744
NOV-1993	4.75	309	5.35	305	5.00	0.18	29.9	5.9	135
Total Period	-1.15	154	13.30	237	6.52	3.26	1088.8	493.0	3982



Start: 24-MAY-1993

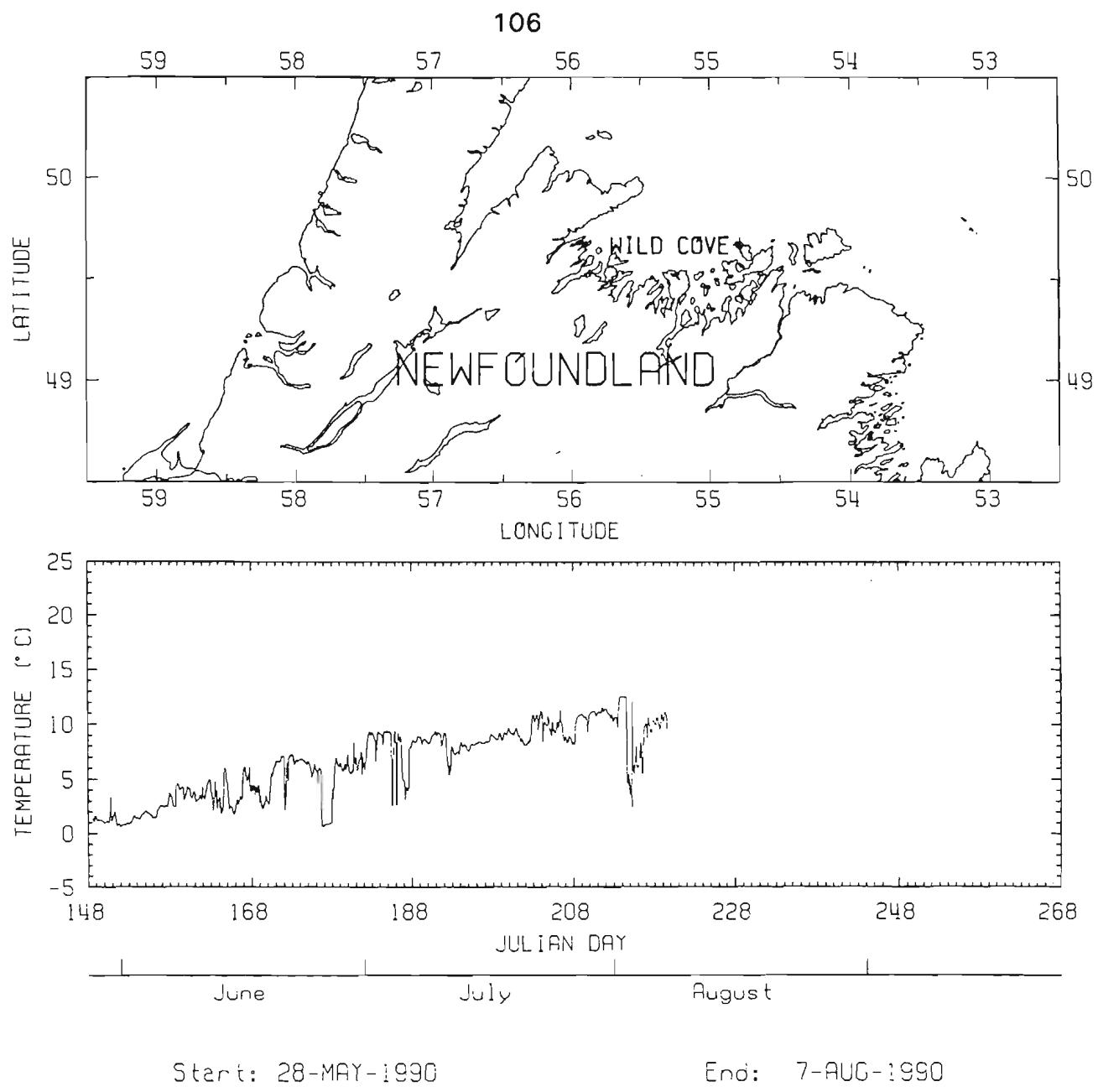
End: 6-NOV-1993

THERMOGRAPH DATA SUMMARY

STATION NAME: WILD COVE, TWILLINGATE
STATION NUMBER: 177
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 63326
LATITUDE: 49.67° N
LONGITUDE: 54.78° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 13 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 28-MAY-1990 14:19 GMT
RECOVERY DATE/TIME: 7-AUG-1990 14:59 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-1990	0.62	151	3.37	150	1.38	0.60	5.5	0.0	44
JUN-1990	0.62	152	8.30	180	4.18	1.92	120.8	22.7	407
JUL-1990	2.56	185	11.50	211	8.78	1.61	274.4	150.4	423
AUG-1990	2.47	215	12.52	213	8.96	2.41	65.0	37.0	126
Total Period	0.62	151	12.52	213	6.61	3.11	465.7	210.1	1000

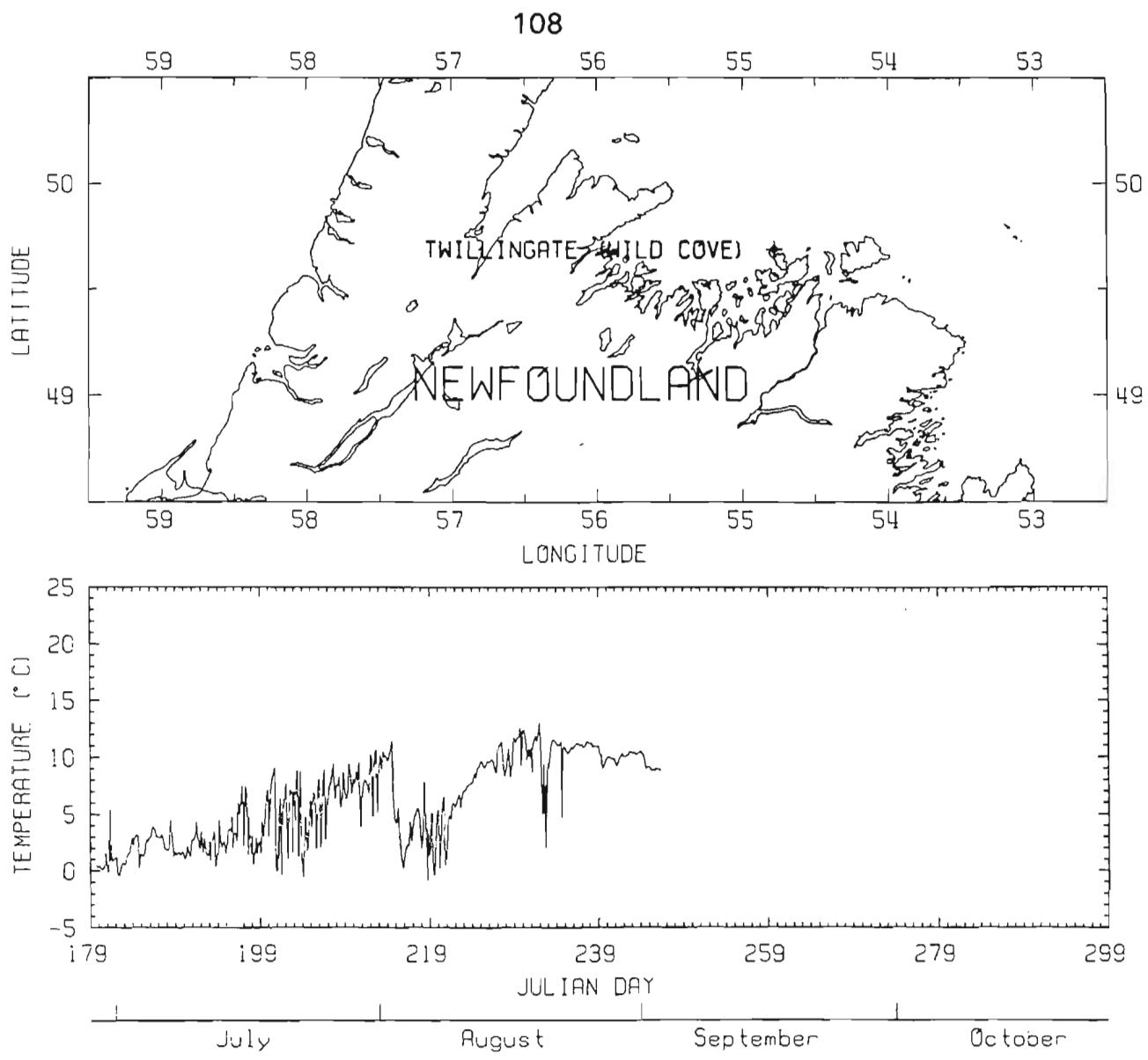


THERMOGRAPH DATA SUMMARY

STATION NAME: TWILLINGATE (WILD COVE)
STATION NUMBER: 177
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 62448
LATITUDE: 49.69° N
LONGITUDE: 54.78° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 33 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 28-JUN-1991 17:50 GMT
RECOVERY DATE/TIME: 3-SEP-1991 09:30 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1991	-0.17	181	5.53	181	1.03	1.26	2.3	0.0	21
JUL-1991	-0.57	204	10.63	212	4.05	2.69	125.3	30.0	214
AUG-1991	-0.83	218	12.97	232	8.10	3.33	258.5	140.0	206
SEP-1991	8.83	245	10.51	244	9.27	0.56	27.6	15.6	15
Total Period	-0.83	218	12.97	232	5.91	3.70	413.7	185.6	456



Start: 28-JUN-1991

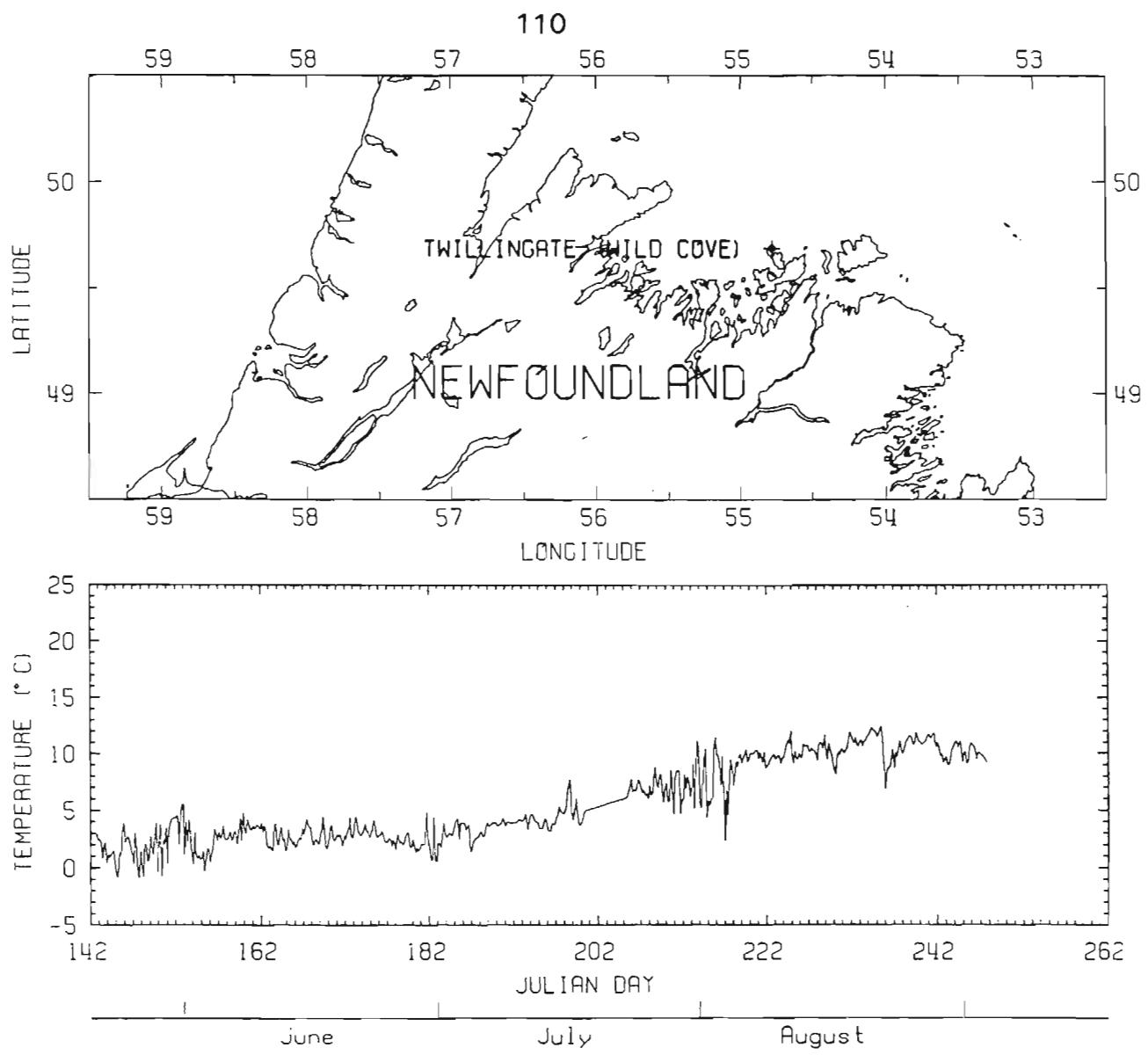
End: 3-SEP-1991

THERMOGRAPH DATA SUMMARY

STATION NAME: TWILLINGATE (WILD COVE)
STATION NUMBER: 177
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 63826
LATITUDE: 49.69° N
LONGITUDE: 54.78° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 32 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 21-MAY-1992 18:20 GMT
RECOVERY DATE/TIME: 3-SEP-1992 18:13 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1992	-0.95	147	5.59	152	1.98	1.63	22.3	0.4	62
JUN-1992	-0.35	155	4.80	181	2.60	0.95	77.9	0.0	183
JUL-1992	1.29	186	11.19	213	4.93	1.90	133.3	32.5	160
AUG-1992	2.28	217	12.45	235	9.96	1.57	308.5	184.5	189
SEP-1992	9.11	245	10.96	245	9.95	0.55	29.8	17.8	17
Total Period	-0.95	147	12.45	235	5.63	3.58	571.8	235.2	611



Start: 21-MAY-1992

End: 3-SEP-1992

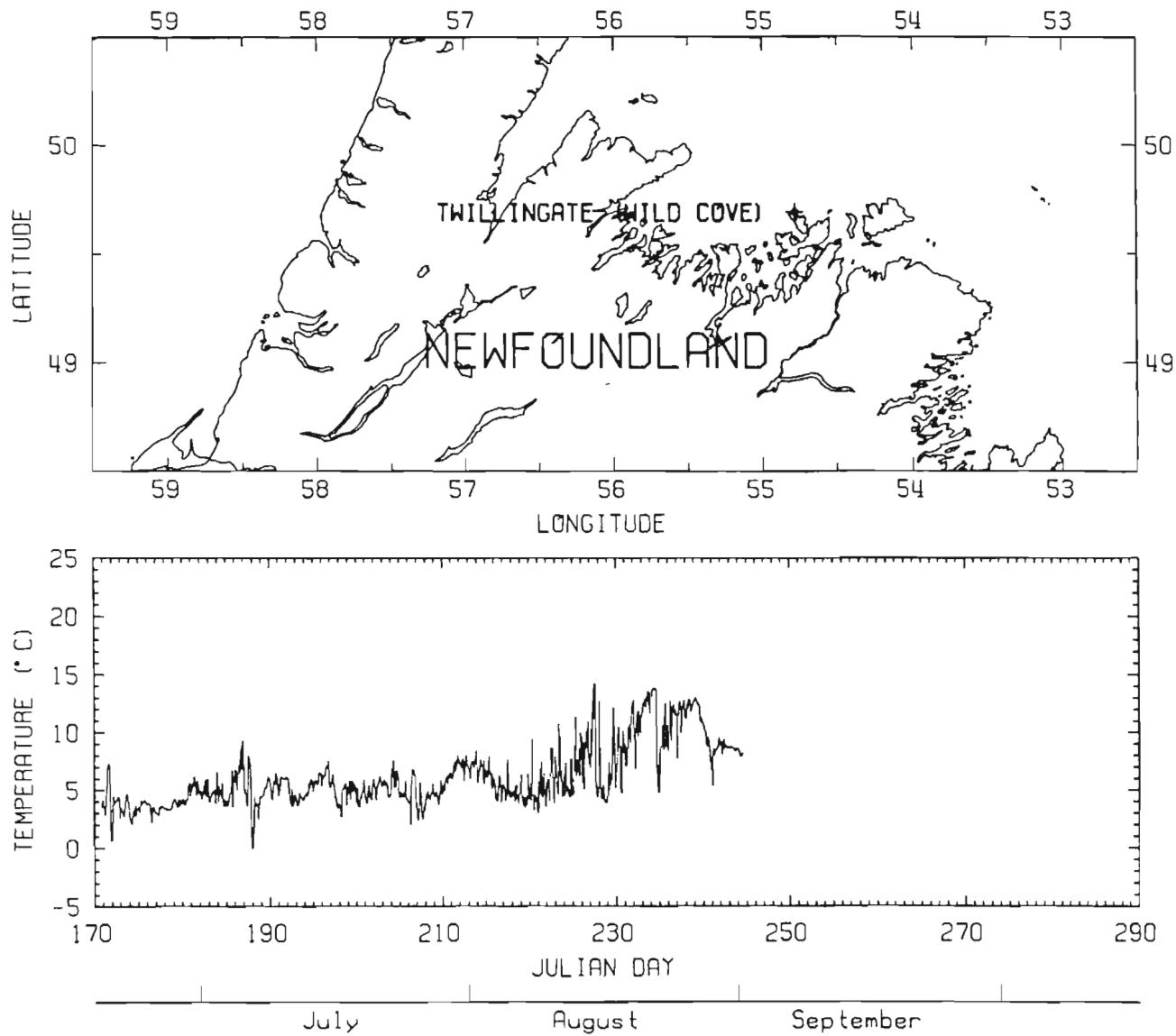
THERMOGRAPH DATA SUMMARY

STATION NAME: TWILLINGATE (WILD COVE)
STATION NUMBER: 177
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 6594
LATITUDE: 49.69° N
LONGITUDE: 54.78° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 32 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 19-JUN-1993 20:00 GMT
RECOVERY DATE/TIME: 1-SEP-1993 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1993	0.60	171	7.30	171	3.82	1.04	45.8	2.3	268
JUL-1993	0.00	187	9.30	186	5.13	1.26	159.1	36.5	744
AUG-1993	3.00	221	14.20	227	7.94	2.92	246.2	122.2	744
SEP-1993	7.90	244	8.60	244	8.20	0.24	8.2	4.2	14
Total Period	0.00	187	14.20	227	6.14	2.66	459.2	165.2	1770

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Start: 19-JUN-1993

End: 1-SEP-1993

Appendix 6. Time Series Plots and Monthly Statistics
from Unit Area 3La.

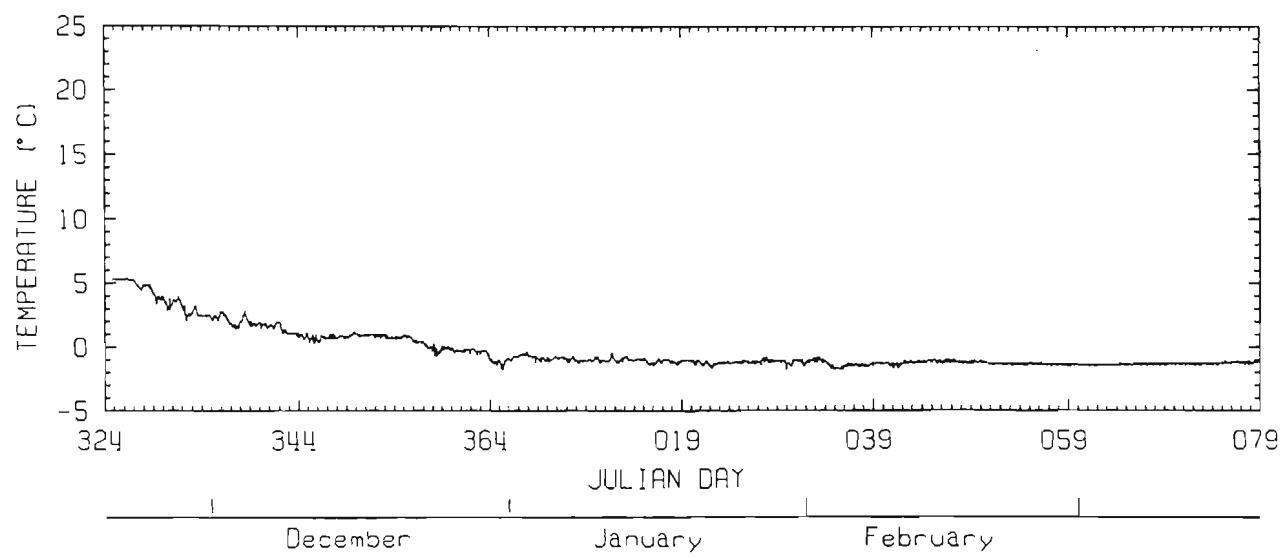
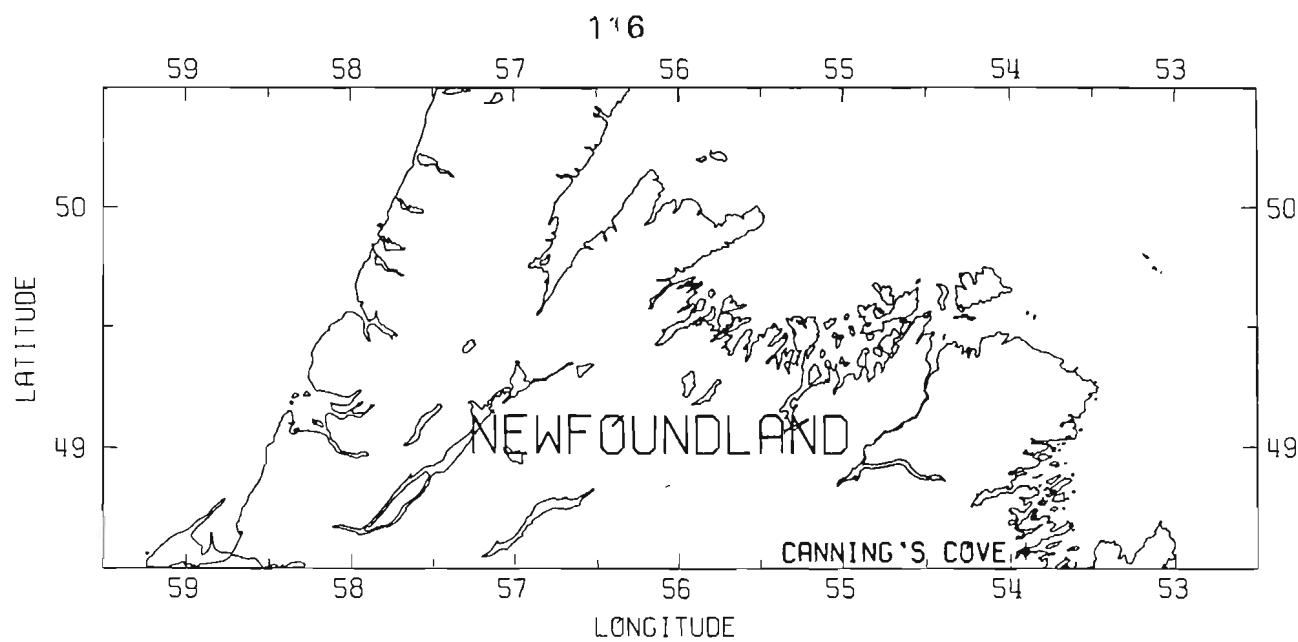


THERMOGRAPH DATA SUMMARY

STATION NAME: CANNING'S COVE
STATION NUMBER: 138
INSTRUMENT TYPE: Ryan TempMentor
INSTRUMENT S/N: 900652
LATITUDE: 48.57° N
LONGITUDE: 53.91° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 20-NOV-1989 19:00 GMT
RECOVERY DATE/TIME: 19-JUN-1990 19:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
NOV-1989	2.00	332	5.50	326	3.90	1.07	44.0	5.4	245
DEC-1989	-6.60	351	2.90	338	0.73	0.97	26.5	0.0	744
JAN-1990	-1.80	29	-0.30	2	-1.05	0.22	0.0	0.0	744
FEB-1990	-1.80	34	-0.80	32	-1.29	0.17	0.0	0.0	672
MAR-1990	-1.50	60	-0.90	77	-1.23	0.13	0.0	0.0	744
APR-1990	-1.30	100	0.70	119	-0.63	0.41	0.2	0.0	720
MAY-1990	-0.20	121	5.30	151	2.57	1.46	79.8	1.4	744
JUN-1990	1.00	154	8.80	168	3.98	1.73	75.9	13.0	452
Total Period	-6.60	351	8.80	168	0.43	2.12	226.4	19.7	5065



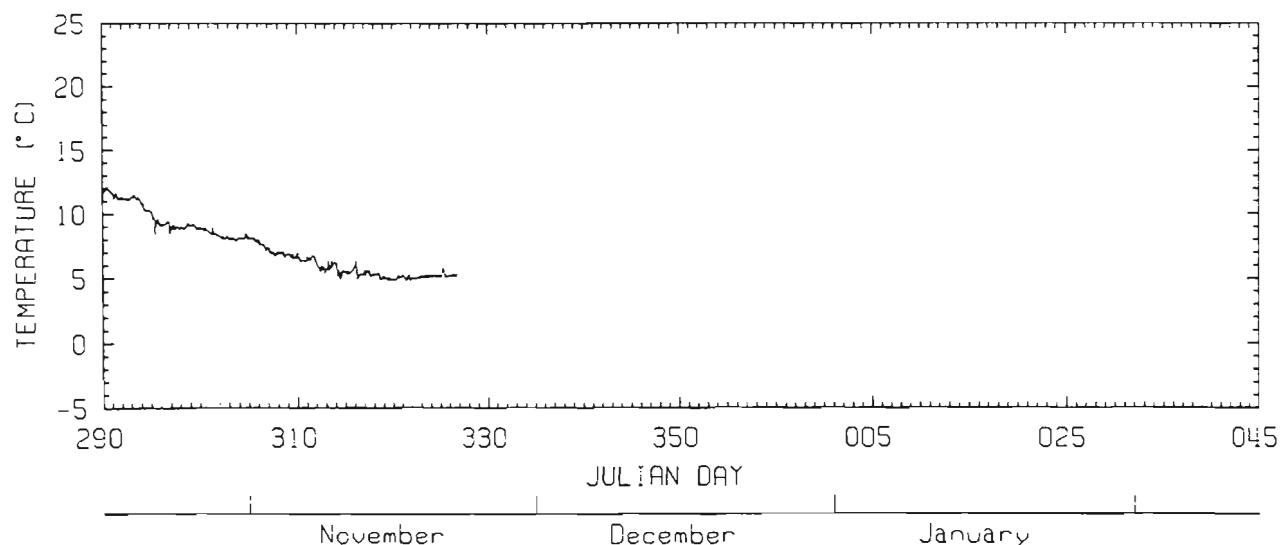
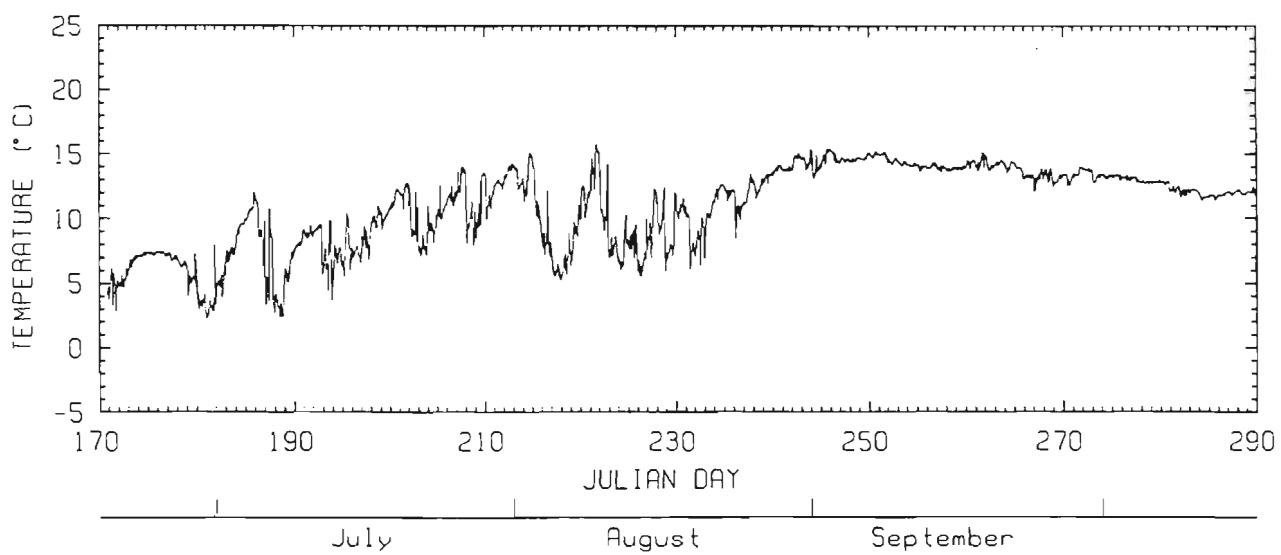
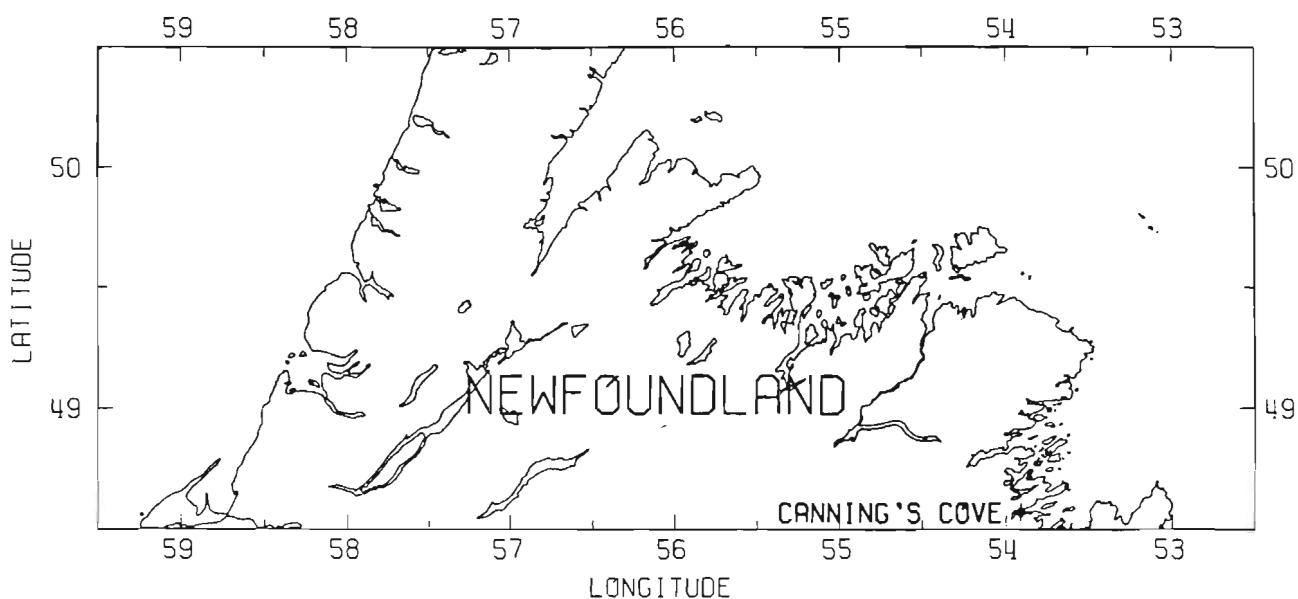
THERMOGRAPH DATA SUMMARY

STATION NAME: CANNING'S COVE
STATION NUMBER: 138
INSTRUMENT TYPE: Ryan TempMentor
INSTRUMENT S/N: 900655
LATITUDE: 48.57° N
LONGITUDE: 53.91° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 19-JUN-1990 19:30 GMT
RECOVERY DATE/TIME: 22-NOV-1990 18:30 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1990	2.30	181	8.00	181	5.87	1.50	69.3	22.0	269
JUL-1990	2.30	188	14.30	212	9.17	2.61	284.2	161.0	744
AUG-1990	5.20	217	15.80	221	10.62	2.72	329.2	205.2	744
SEP-1990	12.00	267	15.40	245	14.01	0.63	420.4	300.4	720
OCT-1990	7.90	303	13.40	274	11.02	1.73	341.6	217.6	744
NOV-1990	4.70	321	8.20	305	5.86	0.90	128.8	40.8	523
Total Period	2.30	181	15.80	221	10.06	3.30	1573.6	947.0	3744

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Start: 19-JUN-1990

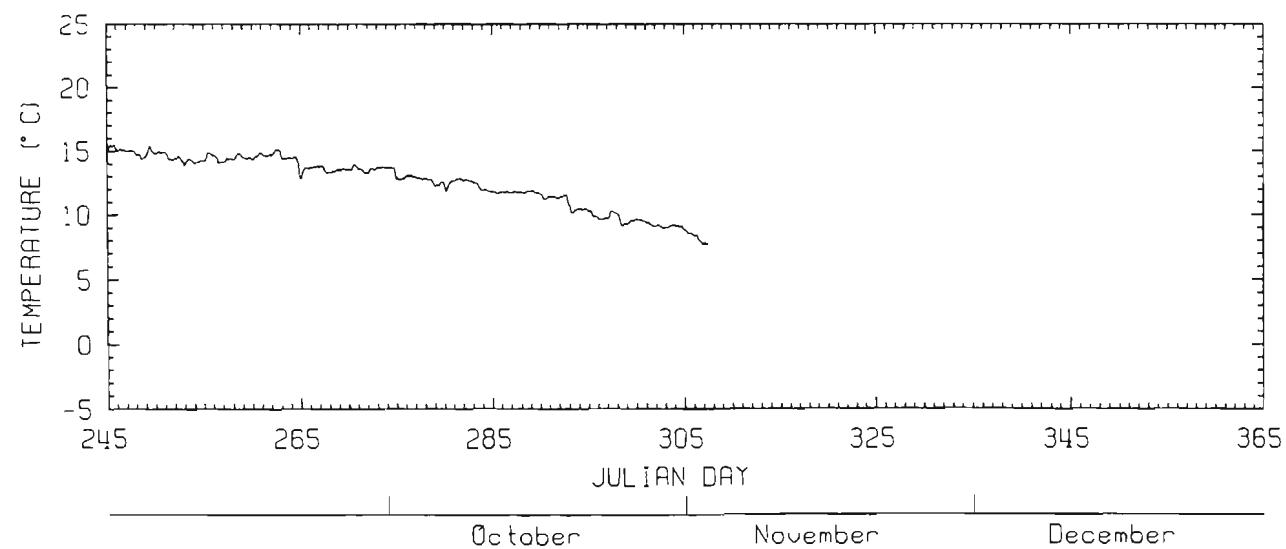
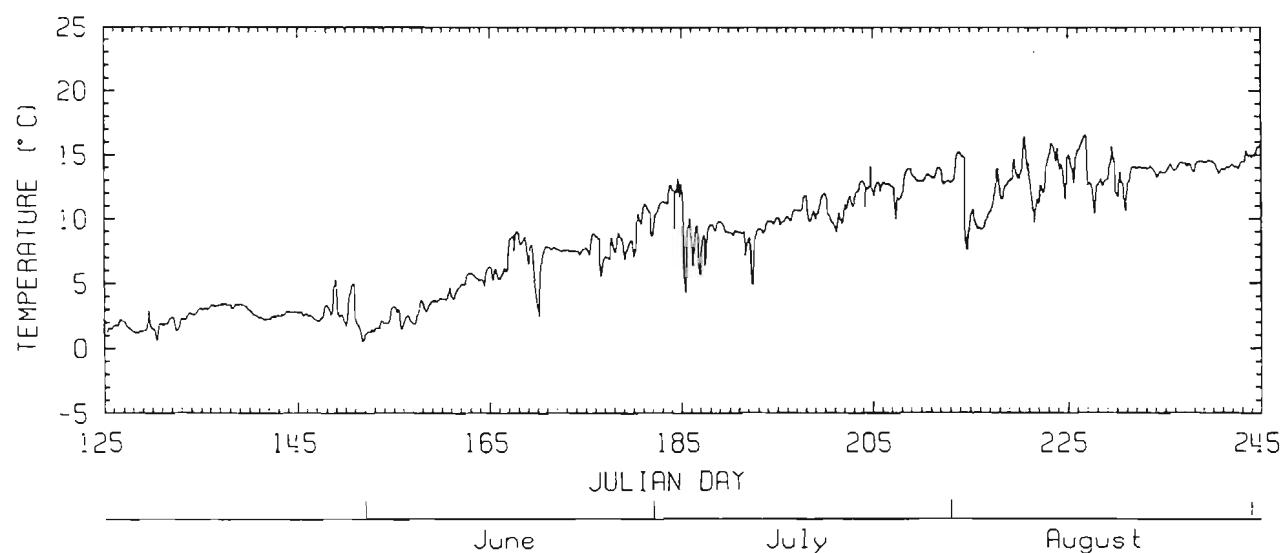
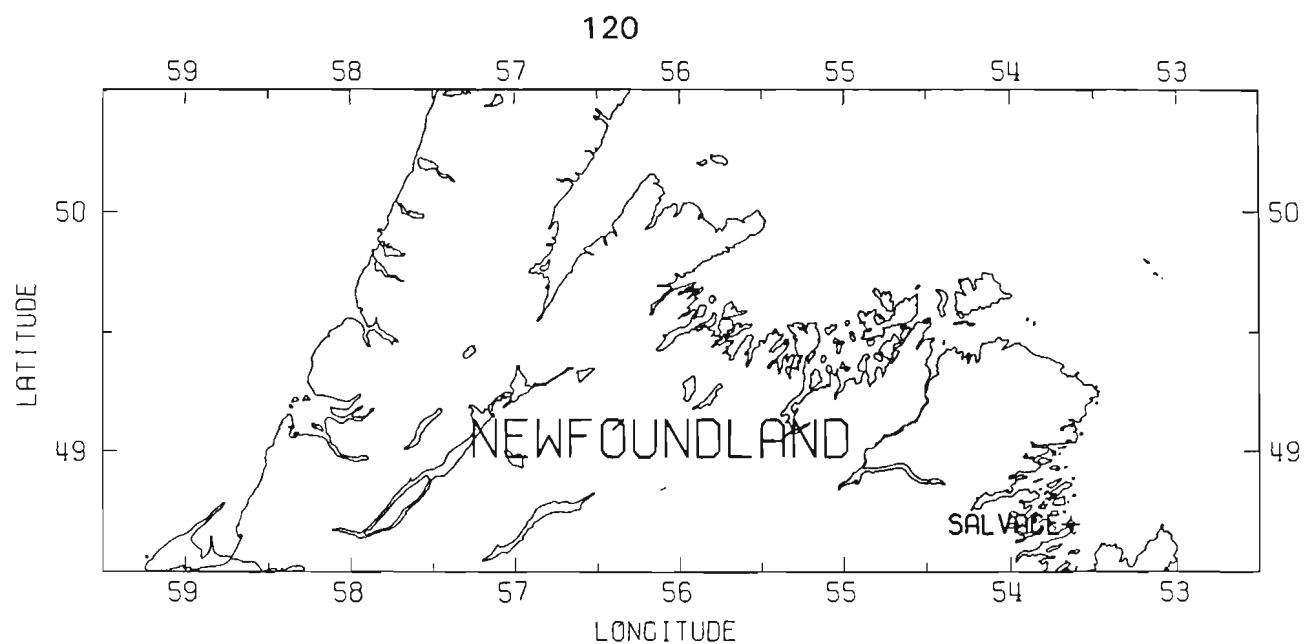
End: 22-NOV-1990

THERMOGRAPH DATA SUMMARY

STATION NAME: SALVAGE
STATION NUMBER: 129
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 64142
LATITUDE: 48.70° N
LONGITUDE: 53.64° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 10 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 5-MAY-1990 08:30 GMT
RECOVERY DATE/TIME: 3-NOV-1990 13:12 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1990	0.53	151	5.32	148	2.50	0.80	66.9	0.0	320
JUN-1990	1.06	152	11.23	181	5.79	2.52	173.1	65.3	367
JUL-1990	4.26	185	14.13	204	10.70	1.99	333.5	209.5	400
AUG-1990	7.53	214	16.57	226	13.38	1.69	414.9	290.9	385
SEP-1990	12.76	265	15.74	244	14.32	0.61	429.4	309.4	361
OCT-1990	8.82	304	13.71	274	11.20	1.39	347.2	223.2	373
NOV-1990	7.65	306	8.82	305	8.19	0.39	24.4	12.4	31
Total Period	0.53	151	16.57	226	9.82	4.36	1789.5	1110.7	2237



Start: 5-MAY-1990

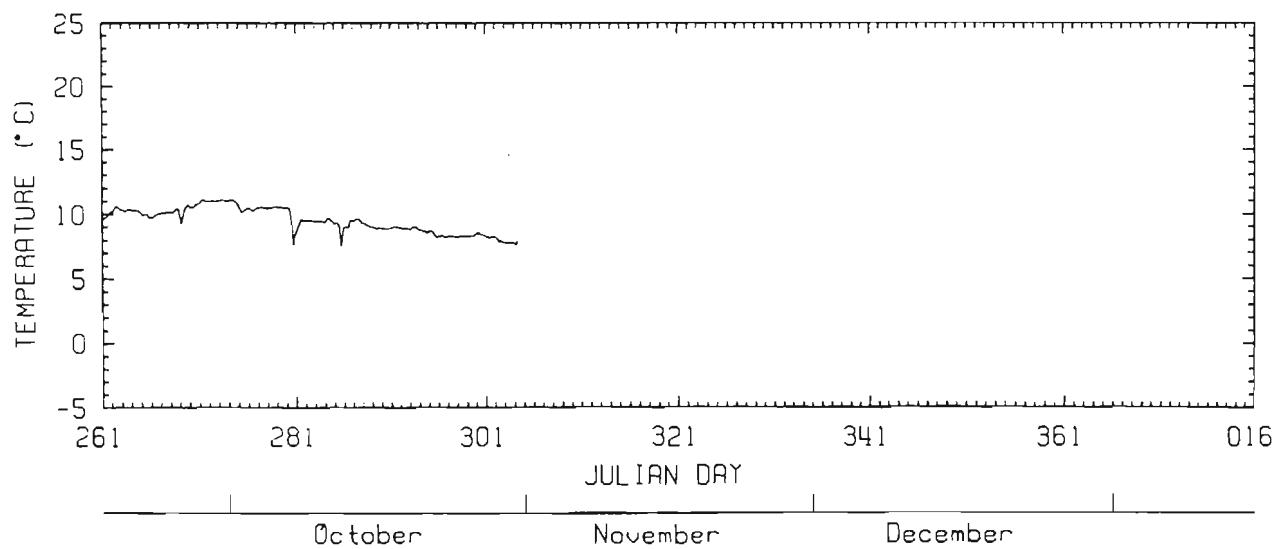
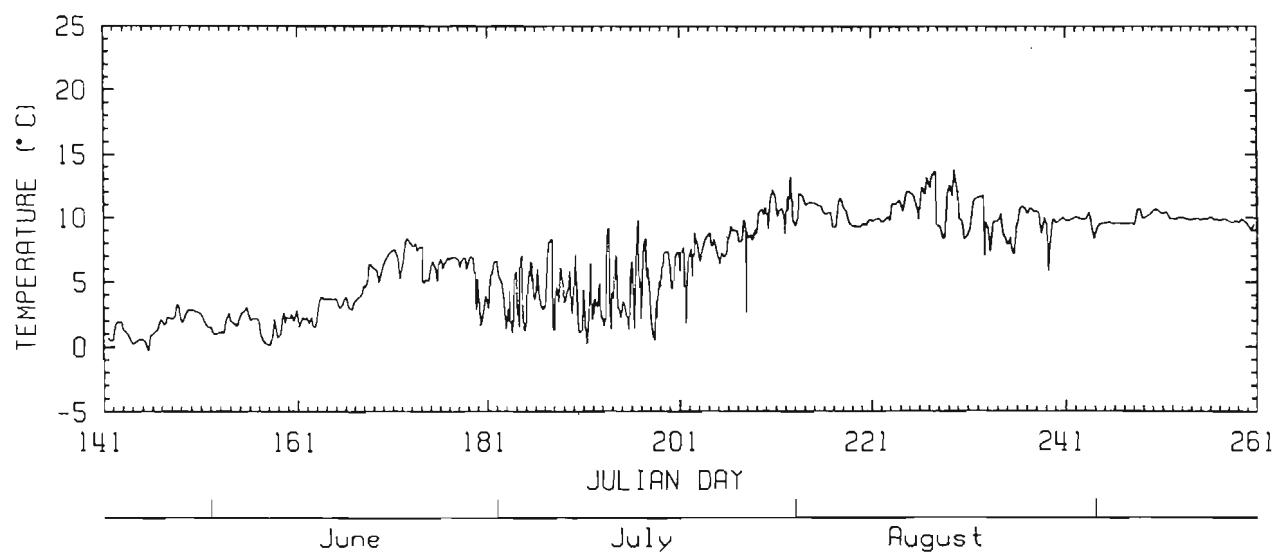
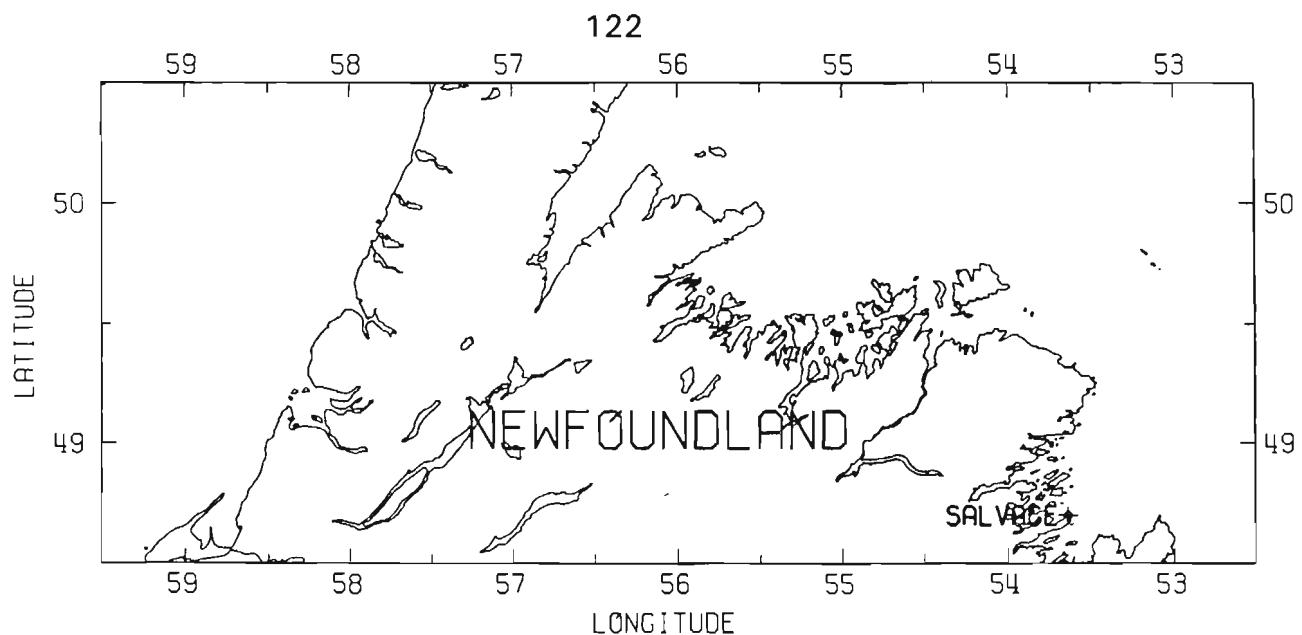
End: 3-NOV-1990

THERMOGRAPH DATA SUMMARY

STATION NAME: SALVAGE
STATION NUMBER: 129
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 62545
LATITUDE: 48.70° N
LONGITUDE: 53.64° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 10 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 21-MAY-1991 10:00 GMT
RECOVERY DATE/TIME: 31-OCT-1991 06:42 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1991	-0.33	145	3.27	148	1.56	0.94	16.9	0.0	49
JUN-1991	0.13	158	8.41	172	4.10	2.22	121.5	29.4	141
JUL-1991	0.18	191	13.20	212	5.48	2.86	183.3	65.4	258
AUG-1991	5.89	239	13.79	229	10.16	1.41	315.1	191.1	129
SEP-1991	9.01	260	11.14	271	10.08	0.47	302.0	182.0	90
OCT-1991	7.45	285	11.10	274	9.06	0.90	280.8	156.8	104
Total Period	-0.33	145	13.79	229	6.78	3.41	1219.6	624.7	771



Start: 21-MAY-1991

End: 31-OCT-1991

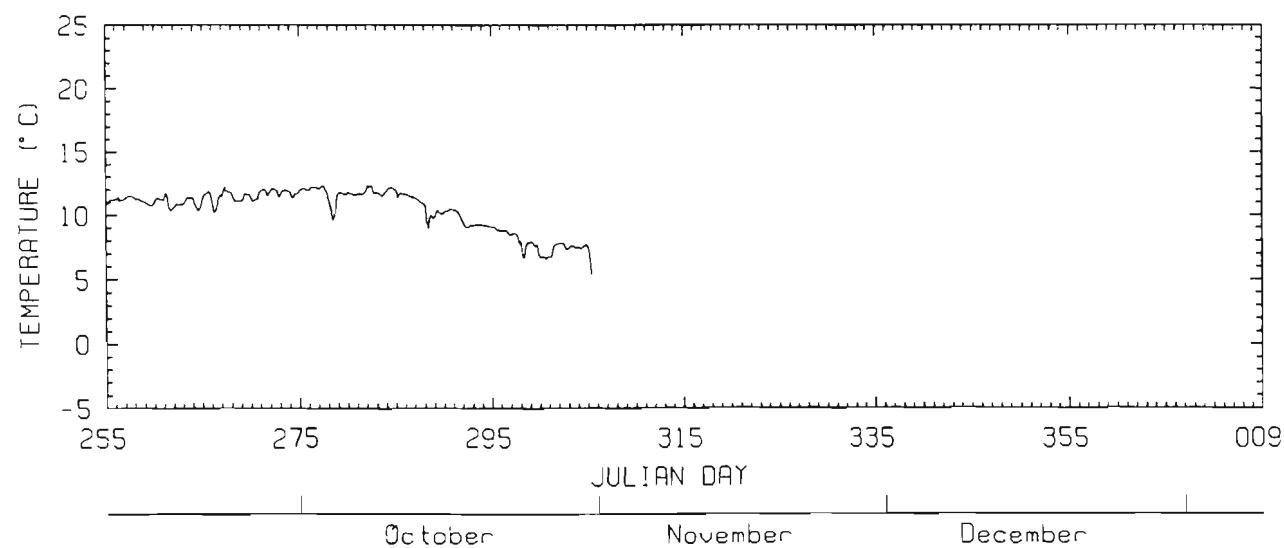
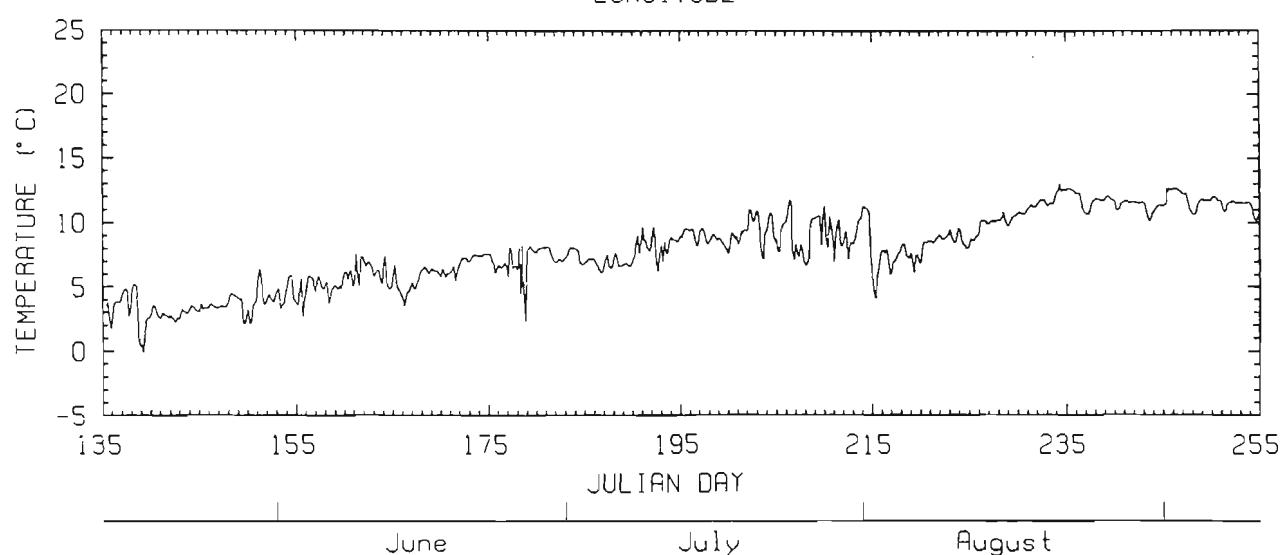
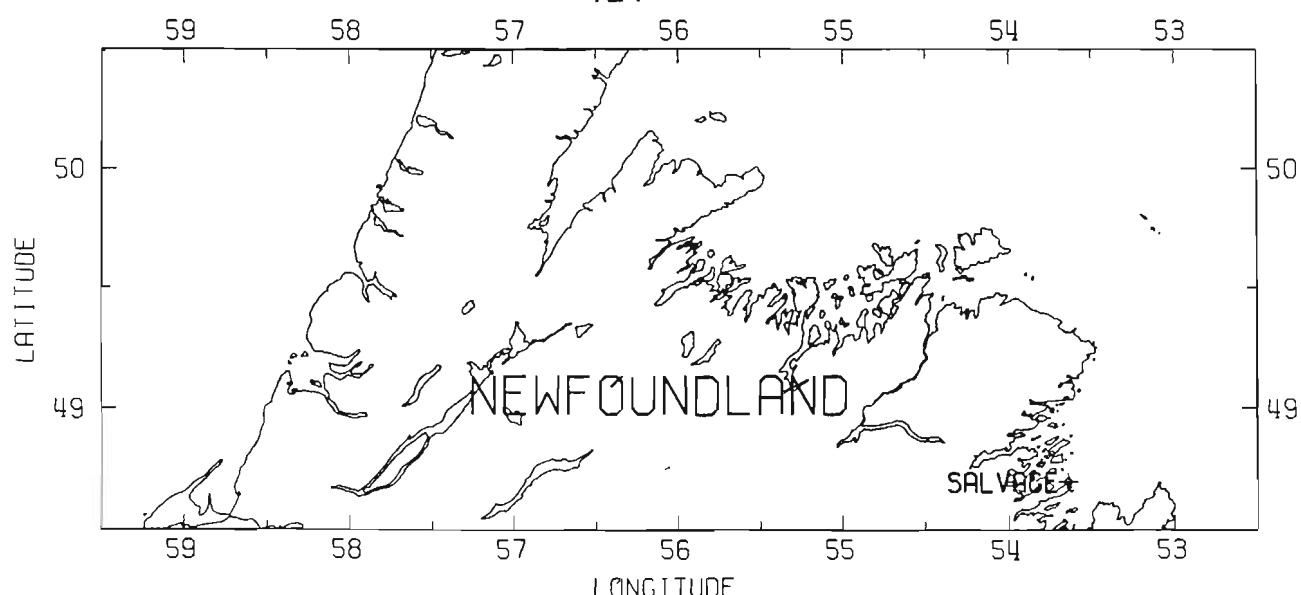
THERMOGRAPH DATA SUMMARY

STATION NAME: SALVAGE
STATION NUMBER: 129
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 62448
LATITUDE: 48.70° N
LONGITUDE: 53.64° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 10 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 14-MAY-1992 09:31 GMT
RECOVERY DATE/TIME: 31-OCT-1992 09:38 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1992	-0.18	139	6.42	151	3.33	1.03	59.8	1.3	106
JUN-1992	2.28	178	8.31	179	6.11	1.28	183.2	63.2	183
JUL-1992	6.13	186	11.78	206	8.51	1.27	263.8	139.8	189
AUG-1992	4.05	215	13.09	234	10.06	1.85	311.8	187.8	188
SEP-1992	10.09	254	12.70	245	11.42	0.52	365.5	237.5	185
OCT-1992	5.32	305	12.34	282	9.83	1.84	303.6	179.6	186
Total Period	-0.18	139	13.09	234	8.60	2.82	1487.6	809.1	1037

124



Start: 14-MAY-1992

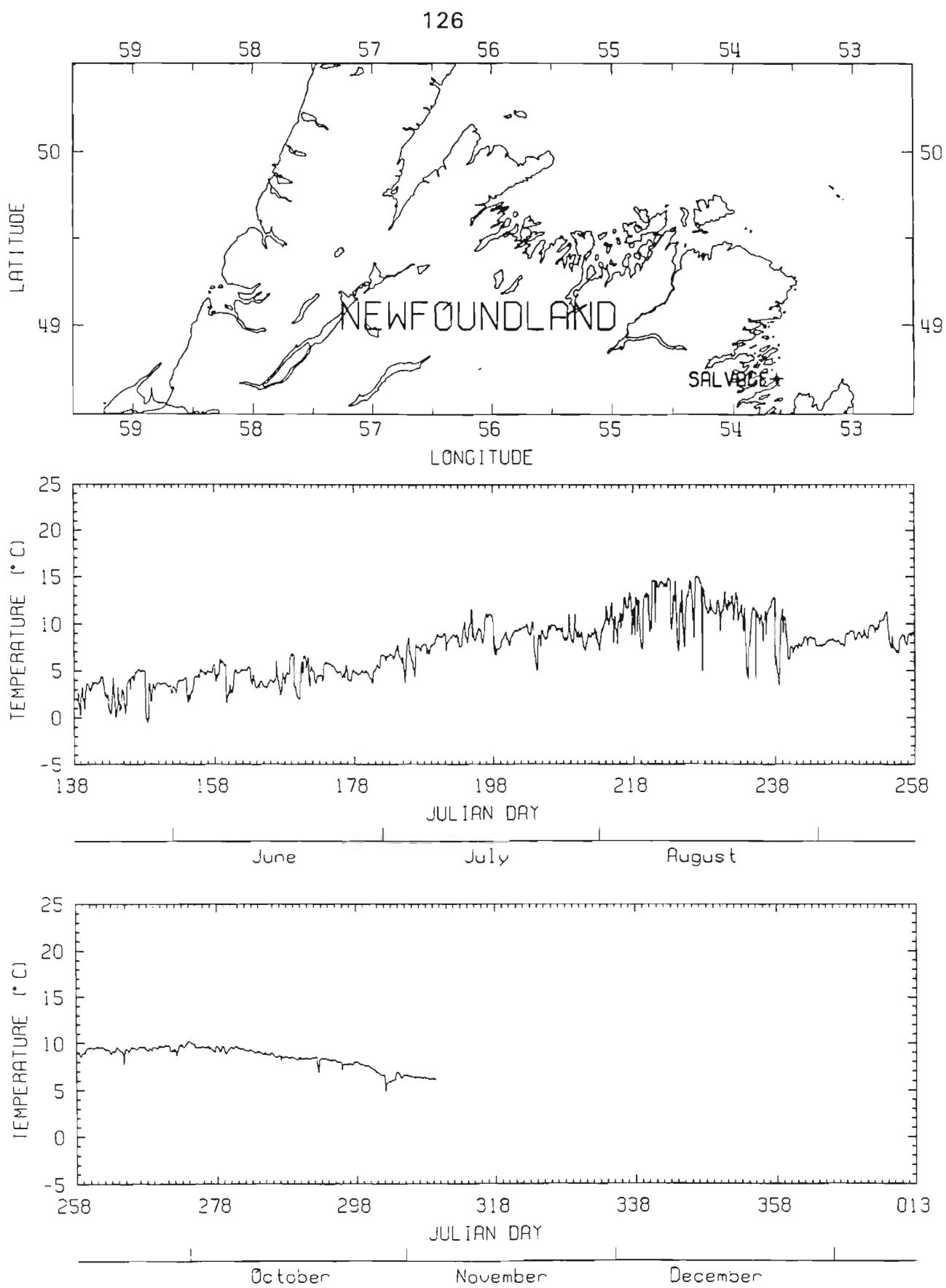
End: 31-OCT-1992

THERMOGRAPH DATA SUMMARY

STATION NAME: SALVAGE
STATION NUMBER: 129
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 7939
LATITUDE: 48.70° N
LONGITUDE: 53.64° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 10 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 18-MAY-1993 11:00 GMT
RECOVERY DATE/TIME: 5-NOV-1993 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1993	-0.50	148	5.20	147	3.00	1.36	41.3	1.4	325
JUN-1993	1.55	154	6.80	169	4.46	1.03	133.8	18.0	720
JUL-1993	3.65	185	11.60	194	8.36	1.30	259.1	135.1	744
AUG-1993	3.45	238	15.10	226	10.73	2.44	332.5	208.5	744
SEP-1993	6.80	255	11.30	253	9.03	0.75	270.8	150.8	720
OCT-1993	4.75	302	10.20	274	8.32	1.04	258.0	134.0	744
NOV-1993	6.10	308	6.70	305	6.33	0.14	31.6	11.6	108
Total Period	-0.50	148	15.10	226	7.74	2.79	1327.1	659.3	4105



Start: 18-MAY-1993

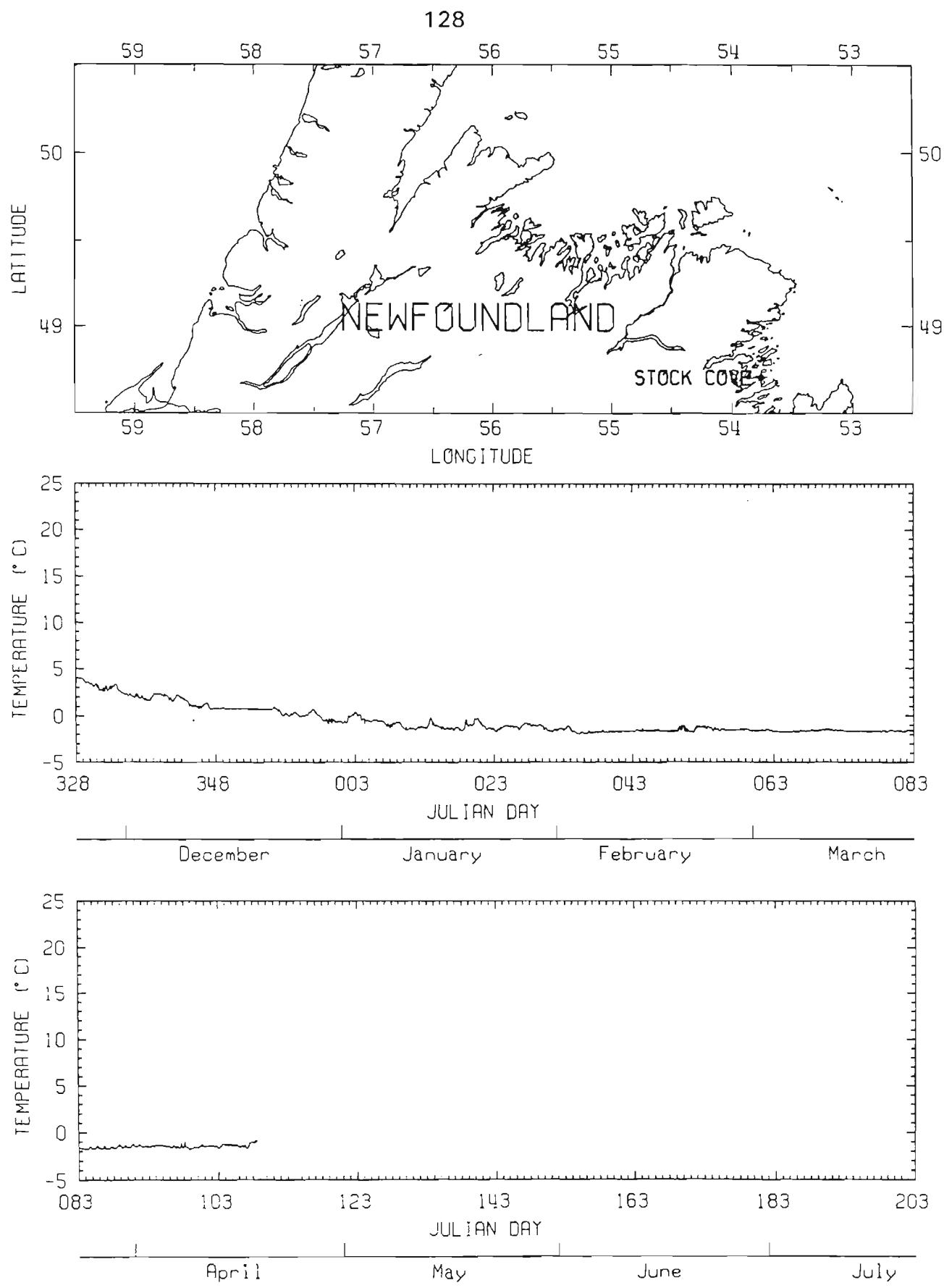
End: 5-NOV-1993

THERMOGRAPH DATA SUMMARY

STATION NAME: STOCK COVE
STATION NUMBER: 110
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 4323
LATITUDE: 48.71° N
LONGITUDE: 53.76° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 24-NOV-1989 12:00 GMT
RECOVERY DATE/TIME: 18-APR-1990 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
NOV-1989	2.30	334	3.95	328	3.12	0.44	22.3	0.0	156
DEC-1989	-0.90	364	2.40	335	0.93	0.82	30.4	0.0	744
JAN-1990	-1.70	31	0.40	3	-0.98	0.45	0.2	0.0	744
FEB-1990	-1.95	35	-1.05	50	-1.56	0.19	0.0	0.0	672
MAR-1990	-1.80	87	-1.20	90	-1.61	0.09	0.0	0.0	744
APR-1990	-1.80	98	-0.85	108	-1.44	0.17	0.0	0.0	424
Total Period	-1.95	35	3.95	328	-0.69	1.35	52.8	0.0	3484



Start: 24-NOV-1989

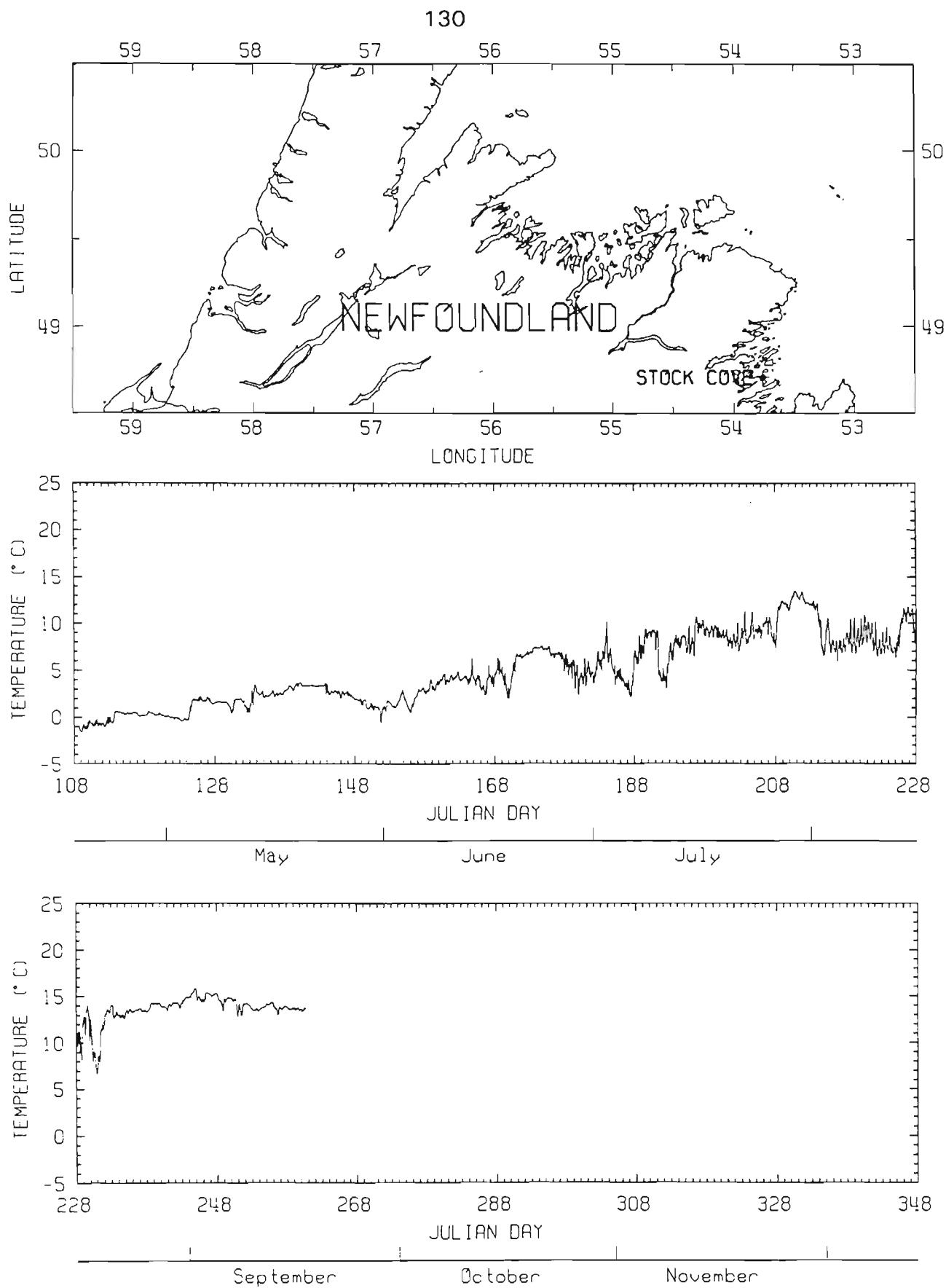
End: 18-APR-1990

THERMOGRAPH DATA SUMMARY

STATION NAME: STOCK COVE
STATION NUMBER: 110
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5458
LATITUDE: 48.71° N
LONGITUDE: 53.76° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 18-APR-1990 17:00 GMT
RECOVERY DATE/TIME: 17-SEP-1990 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
APR-1990	-1.60	109	0.70	118	-0.10	0.61	2.5	0.0	295
MAY-1990	-0.70	151	3.70	139	1.95	1.08	60.8	0.0	744
JUN-1990	0.45	156	7.55	174	4.29	1.85	128.7	25.1	720
JUL-1990	2.10	187	13.45	210	8.25	2.58	255.8	132.6	744
AUG-1990	5.95	216	15.00	243	10.88	2.67	337.1	213.1	744
SEP-1990	12.80	251	15.80	244	14.18	0.65	240.9	172.9	402
Total Period	-1.60	109	15.80	244	6.70	4.85	1025.8	543.8	3649



Start: 18-APR-1990

End: 17-SEP-1990

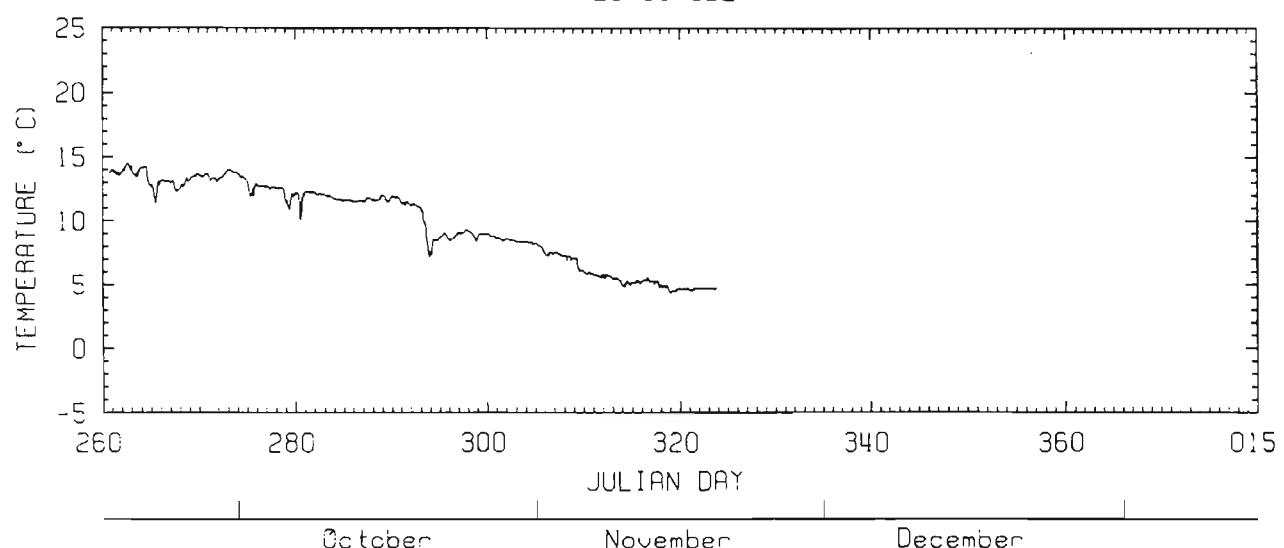
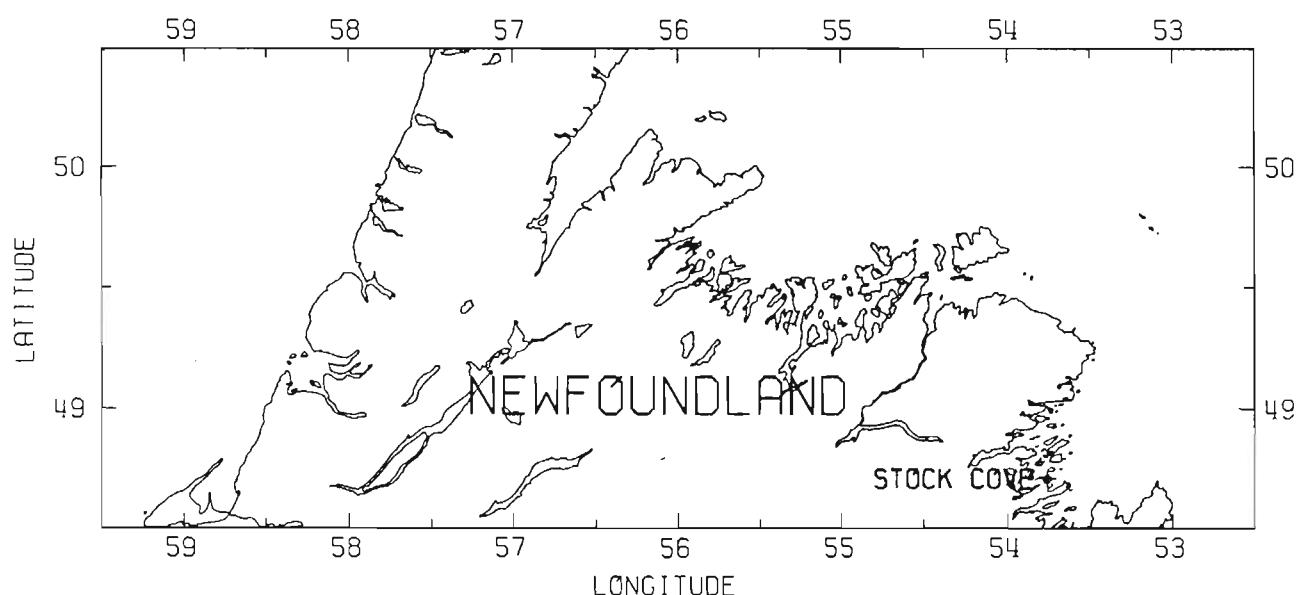
THERMOGRAPH DATA SUMMARY

STATION NAME: STOCK COVE
STATION NUMBER: 110
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3260
LATITUDE: 48.71° N
LONGITUDE: 53.76° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 10 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 17-SEP-1990 18:00 GMT
RECOVERY DATE/TIME: 19-NOV-1990 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
SEP-1990	11.30	265	14.50	262	13.41	0.56	188.1	132.1	318
OCT-1990	7.10	293	13.80	274	10.74	1.68	332.8	208.8	744
NOV-1990	4.40	318	8.30	305	5.71	1.08	108.3	32.3	451
Total Period	4.40	318	14.50	262	9.80	3.16	629.2	373.2	1513

132



Start: 17-SEP-1990

End: 19-NOV-1990

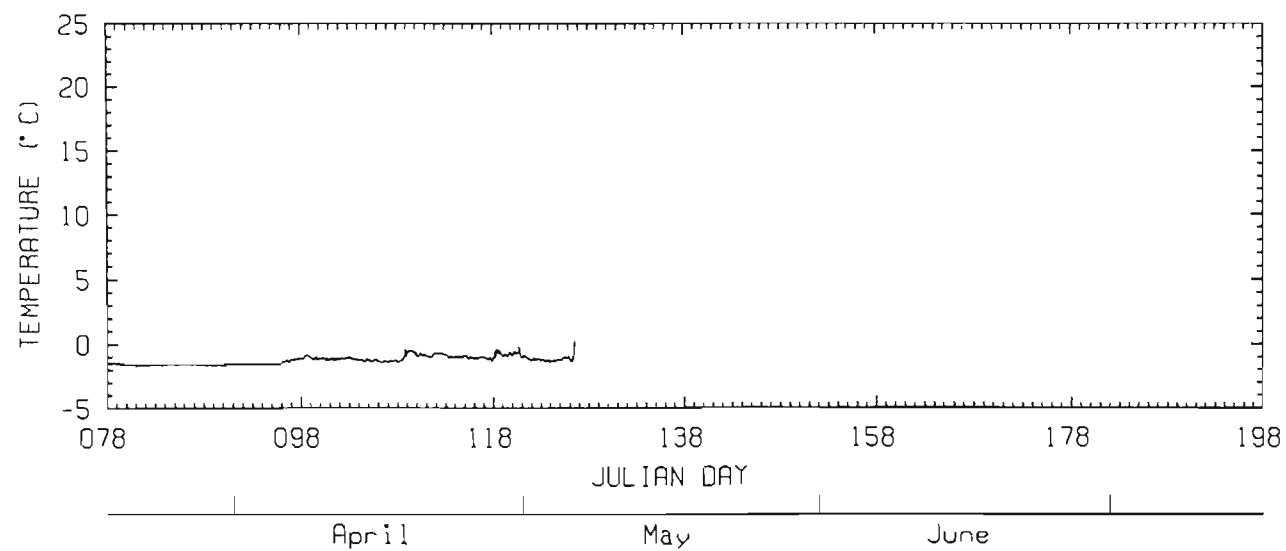
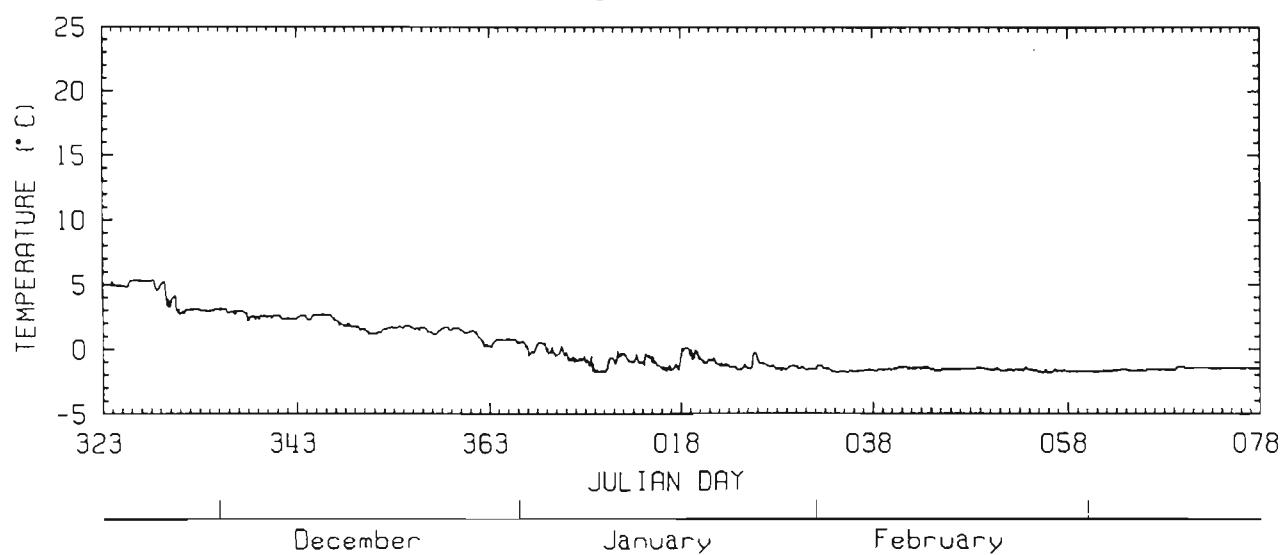
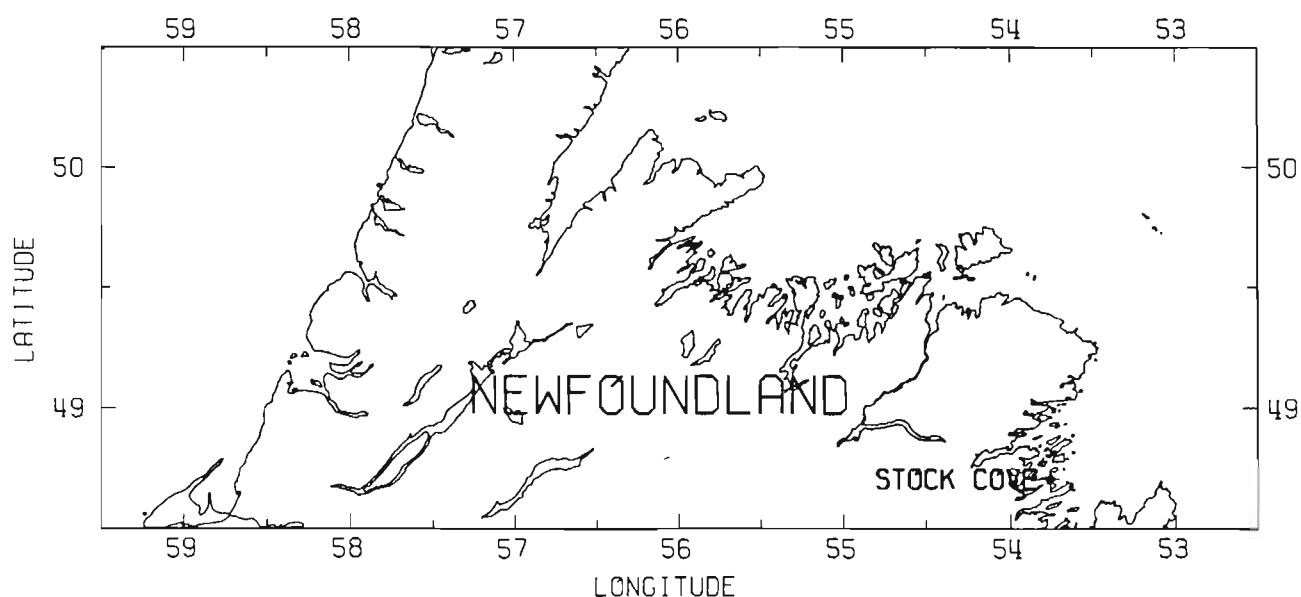
THERMOGRAPH DATA SUMMARY

STATION NAME: STOCK COVE, BONAVISTA BAY
STATION NUMBER: 110
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3262
LATITUDE: 48.71° N
LONGITUDE: 53.76° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 19-NOV-1990 20:00 GMT
RECOVERY DATE/TIME: 6-MAY-1991 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
NOV-1990	2.60	330	5.35	326	4.13	1.03	50.3	6.8	268
DEC-1990	0.05	363	3.15	335	1.82	0.72	56.6	0.0	744
JAN-1991	-1.80	8	0.65	1	-0.90	0.60	0.8	0.0	744
FEB-1991	-1.85	35	-1.20	32	-1.61	0.12	0.0	0.0	672
MAR-1991	-1.75	60	-1.35	69	-1.57	0.09	0.0	0.0	744
APR-1991	-1.65	92	-0.15	120	-1.14	0.29	0.0	0.0	720
MAY-1991	-1.40	123	0.25	126	-1.18	0.18	0.0	0.0	133
Total Period	-1.85	35	5.35	326	-0.36	1.79	107.7	6.8	4025

134



Start: 19-NOV-1990

End: 6-MAY-1991

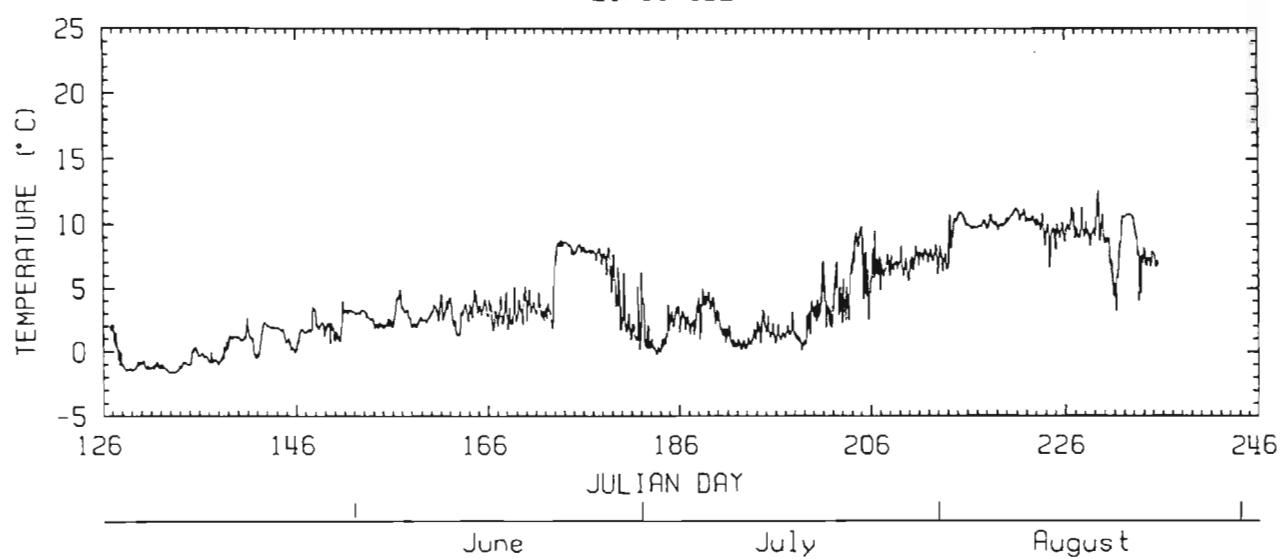
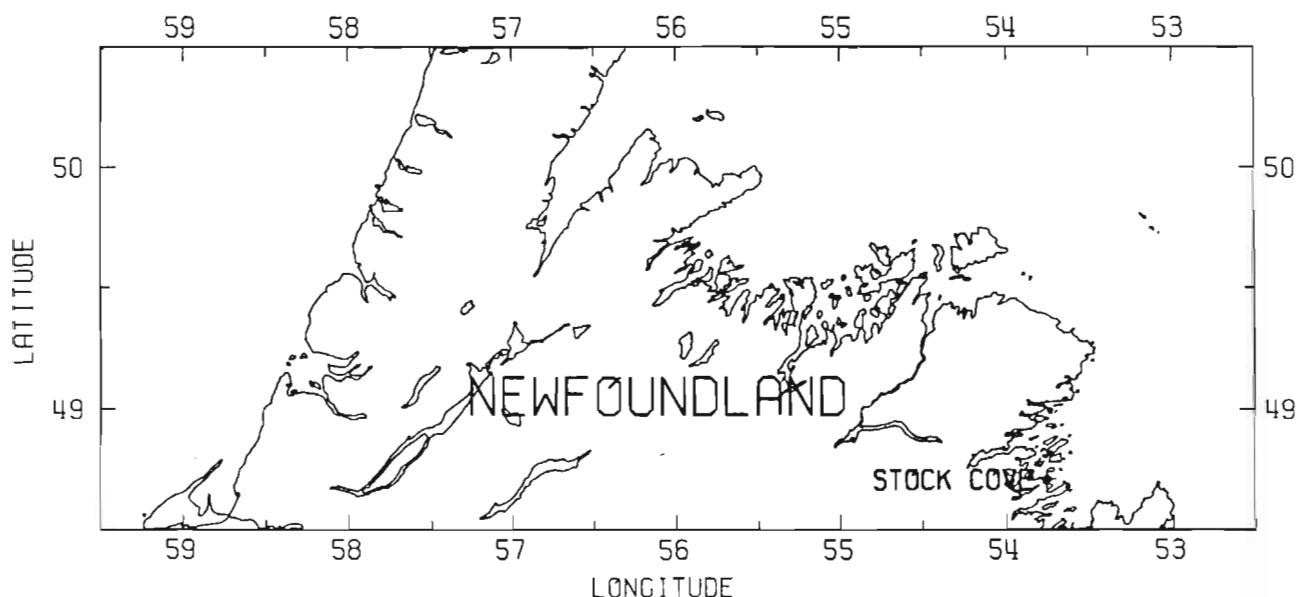
THERMOGRAPH DATA SUMMARY

STATION NAME: STOCK COVE, BONAVISTA BAY
STATION NUMBER: 110
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3287
LATITUDE: 48.71° N
LONGITUDE: 53.76° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 6-MAY-1991 18:00 GMT
RECOVERY DATE/TIME: 23-AUG-1991 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1991	-1.65	133	4.05	150	0.44	1.43	22.6	0.0	606
JUN-1991	0.15	181	8.80	173	3.98	2.18	119.5	24.4	720
JUL-1991	-0.25	183	9.90	205	3.62	2.63	112.2	28.5	744
AUG-1991	3.20	231	12.60	229	9.33	1.48	213.6	121.6	542
Total Period	-1.65	133	12.60	229	4.17	3.61	467.9	174.5	2612

136



Start: 6-MAY-1991

End: 23-AUG-1991

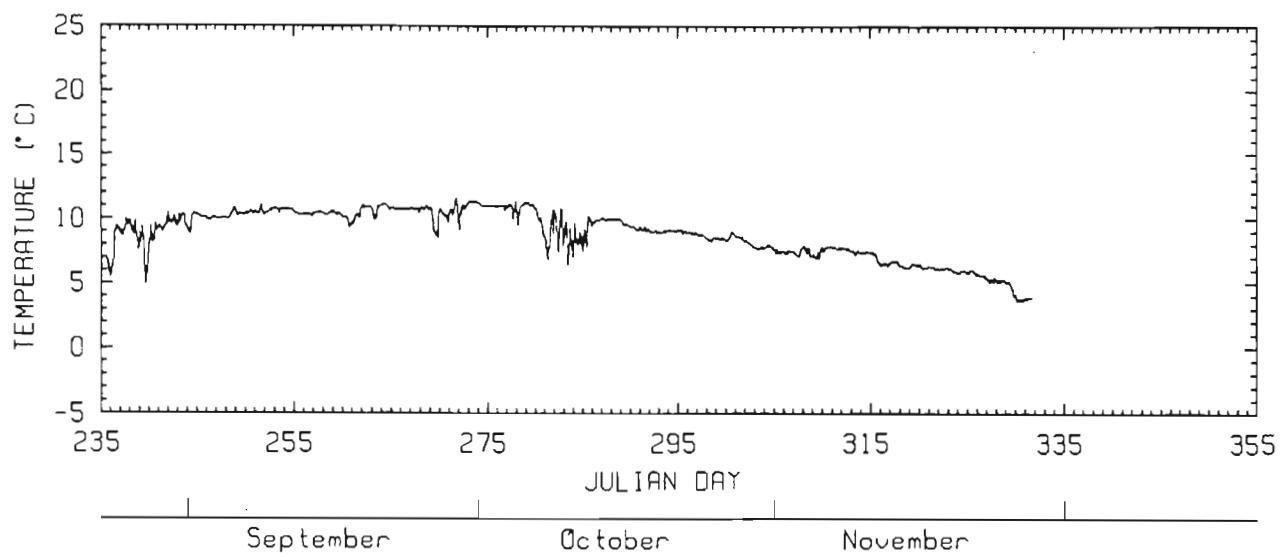
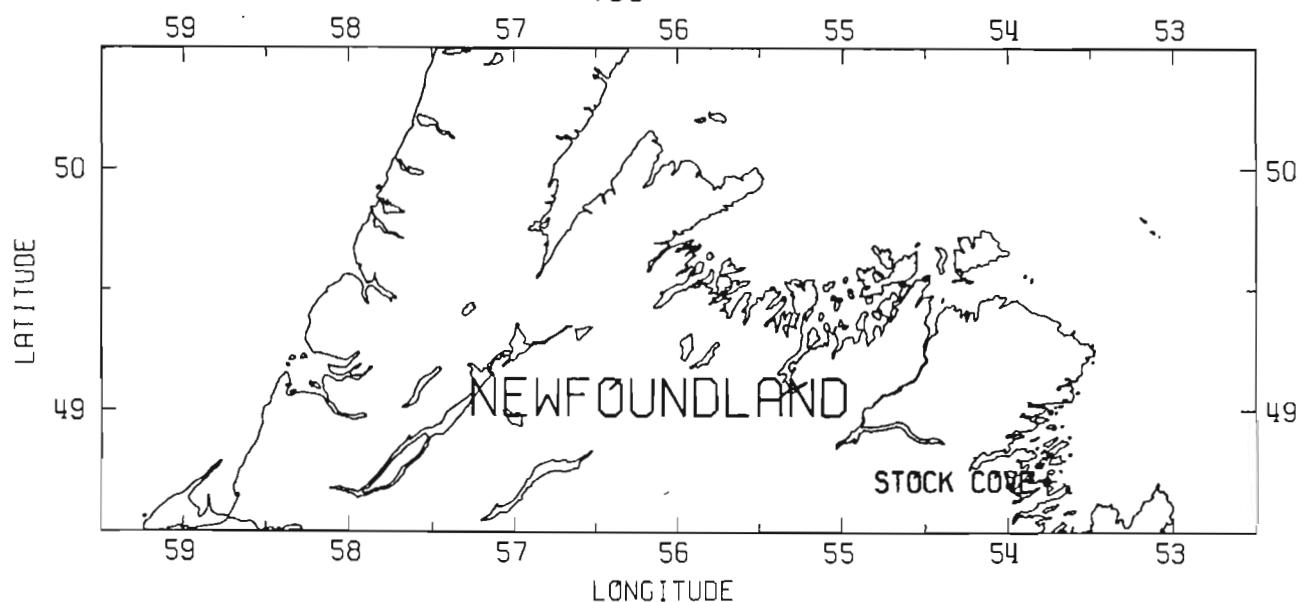
THERMOGRAPH DATA SUMMARY

STATION NAME: STOCK COVE, BONAVISTA BAY
STATION NUMBER: 110
INSTRUMENT TYPE: Seamon UTR-A (Hugrun)
INSTRUMENT S/N: 5516
LATITUDE: 48.71° N
LONGITUDE: 53.76° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 23-AUG-1991 16:00 GMT
RECOVERY DATE/TIME: 27-NOV-1991 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
AUG-1991	4.80	239	10.50	242	8.80	1.26	77.5	41.5	200
SEP-1991	8.50	269	11.60	271	10.43	0.47	313.0	193.0	720
OCT-1991	6.40	283	11.40	278	9.31	1.07	288.6	164.6	744
NOV-1991	3.60	330	7.90	308	6.42	1.09	172.8	65.1	642
Total Period	3.60	330	11.60	271	8.81	1.84	851.9	464.3	2306

138



Start: 23-AUG-1991

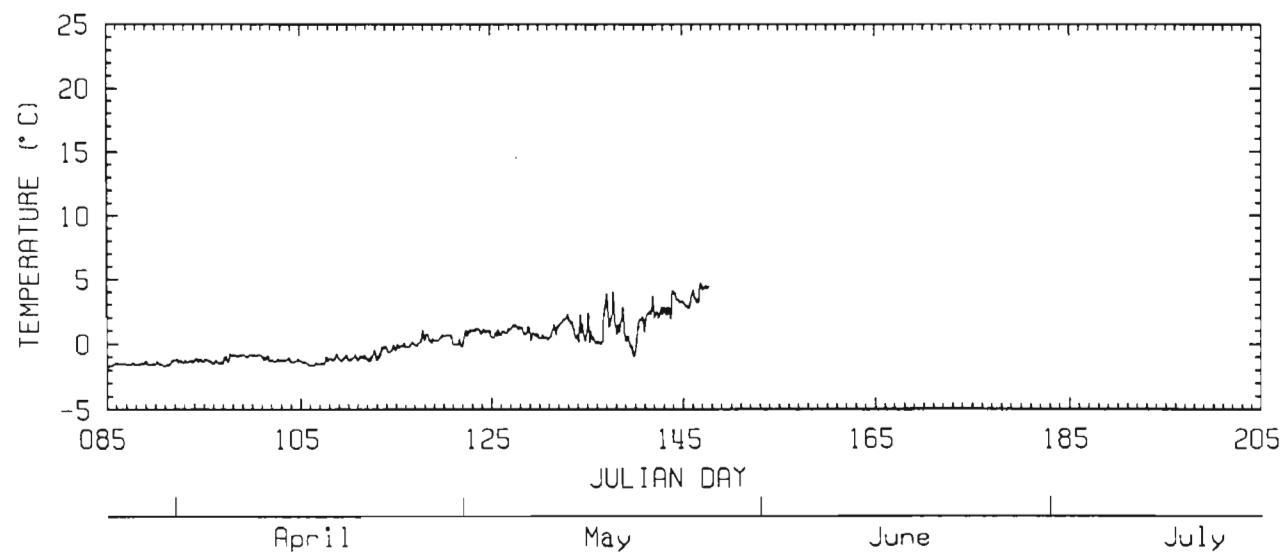
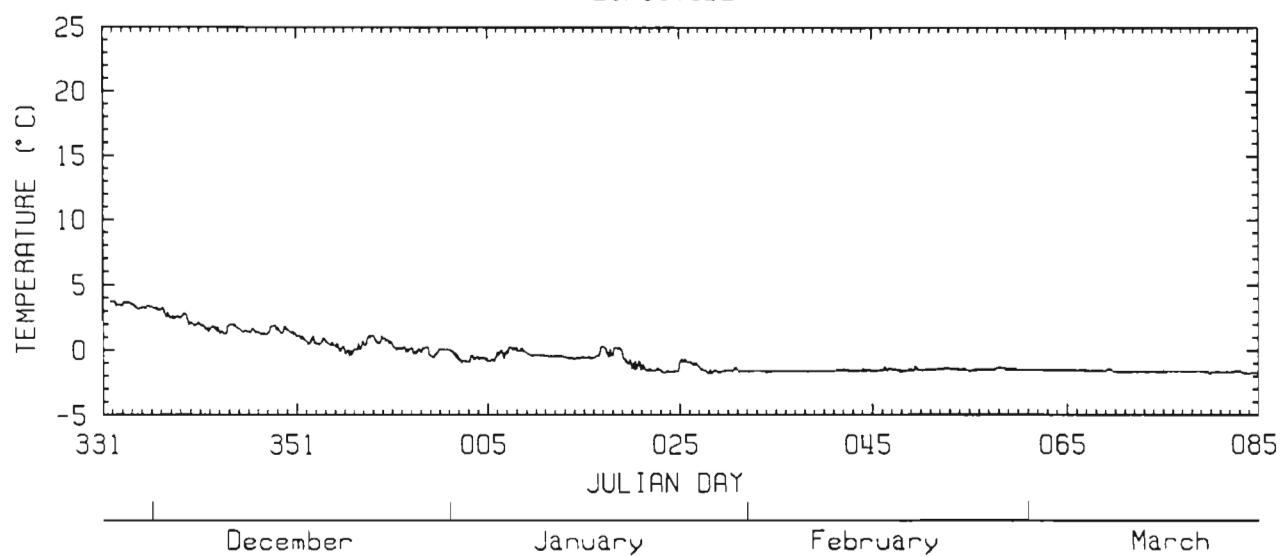
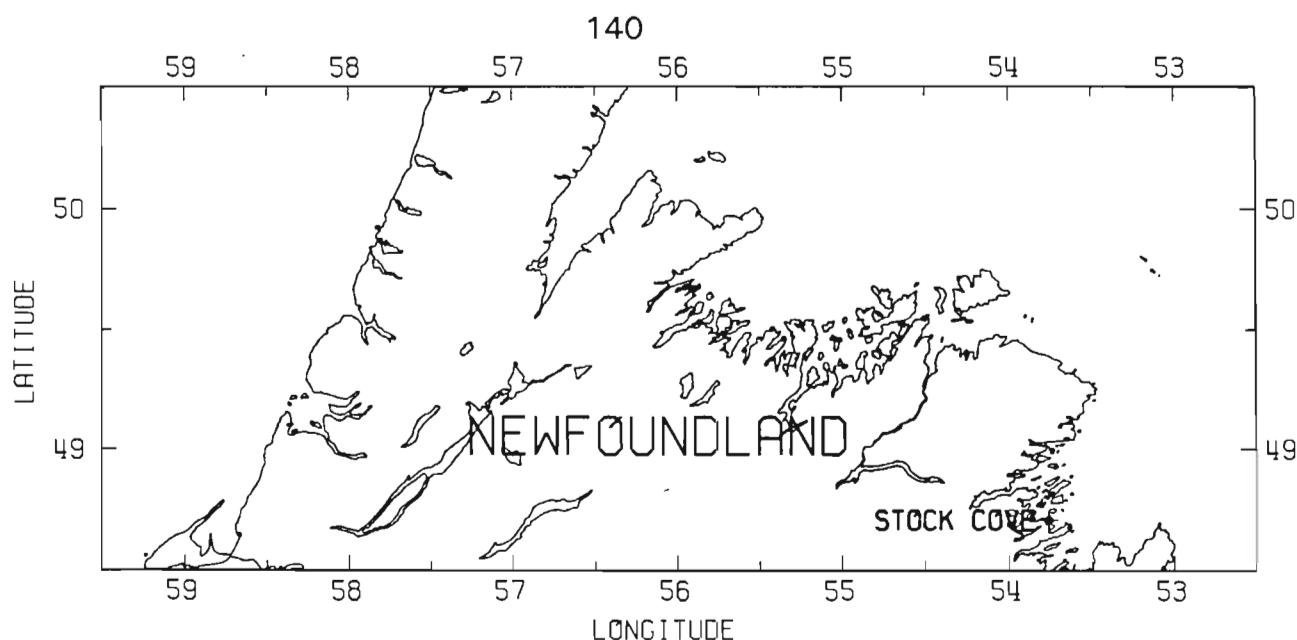
End: 27-NOV-1991

THERMOGRAPH DATA SUMMARY

STATION NAME: STOCK COVE, BONAVISTA BAY
STATION NUMBER: 110
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3287
LATITUDE: 48.71° N
LONGITUDE: 53.76° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 27-NOV-1991 18:00 GMT
RECOVERY DATE/TIME: 26-MAY-1992 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
NOV-1991	3.15	334	3.75	331	3.51	0.18	14.2	0.0	78
DEC-1991	-0.55	356	3.45	335	1.23	0.99	38.4	0.0	744
JAN-1992	-1.75	23	0.30	7	-0.78	0.59	0.2	0.0	744
FEB-1992	-1.70	33	-1.25	46	-1.54	0.07	0.0	0.0	696
MAR-1992	-1.80	79	-1.20	91	-1.61	0.08	0.0	0.0	744
APR-1992	-1.65	105	1.05	117	-0.84	0.63	1.5	0.0	720
MAY-1992	-1.05	139	4.75	146	1.53	1.19	40.6	0.3	618
Total Period	-1.80	79	4.75	146	-0.31	1.50	95.0	0.3	4344



Start: 27-NOV-1991

End: 26-MAY-1992

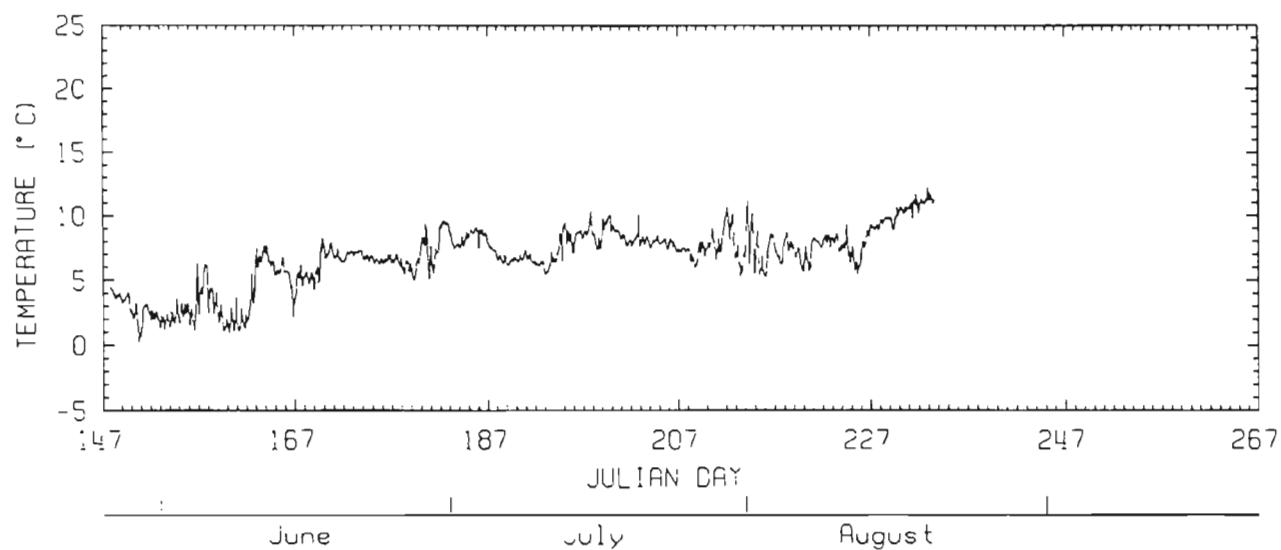
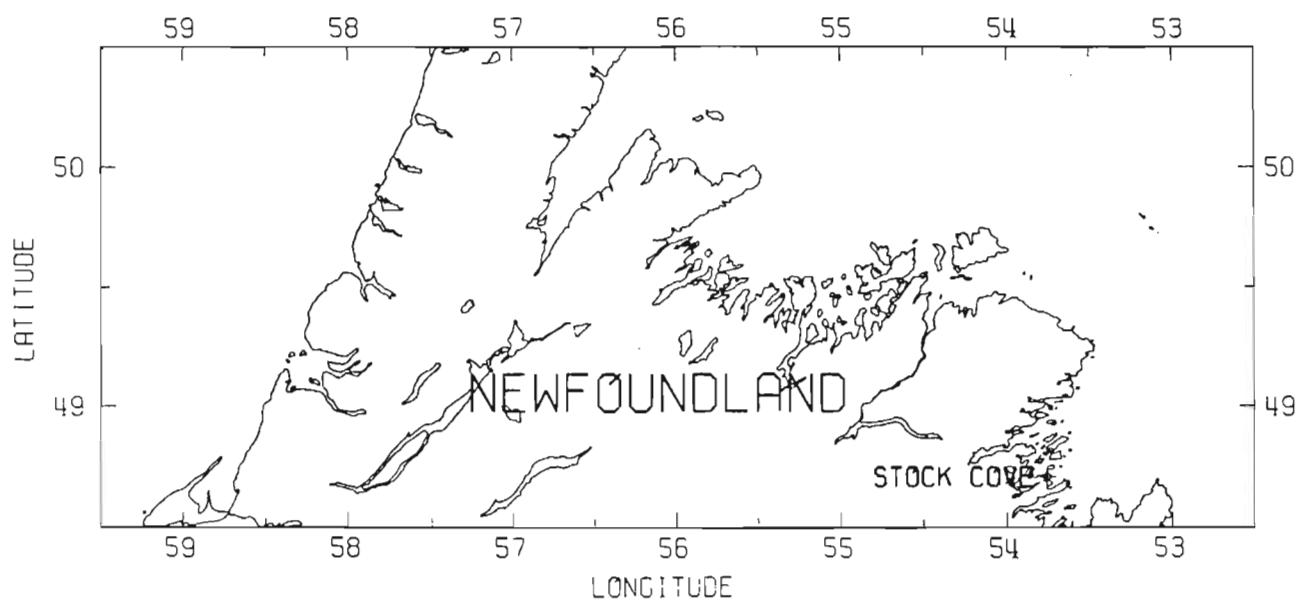
THERMOGRAPH DATA SUMMARY

STATION NAME: STOCK COVE, BONAVISTA BAY
STATION NUMBER: 110
INSTRUMENT TYPE: Seamon UTR-A (Hugrun)
INSTRUMENT S/N: 3213
LATITUDE: 48.71° N
LONGITUDE: 53.76° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 26-MAY-1992 19:00 GMT
RECOVERY DATE/TIME: 20-AUG-1992 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1992	0.20	150	4.40	147	2.86	0.93	18.3	0.3	125
JUN-1992	0.90	160	9.60	182	5.22	2.17	156.7	51.0	720
JUL-1992	5.30	213	10.70	212	7.76	1.03	240.6	116.6	744
AUG-1992	5.20	216	12.20	232	8.41	1.66	169.1	89.1	472
Total Period	0.20	150	12.20	232	6.73	2.33	584.7	257.0	2061

142



Start: 26-MAY-1992

End: 20-AUG-1992

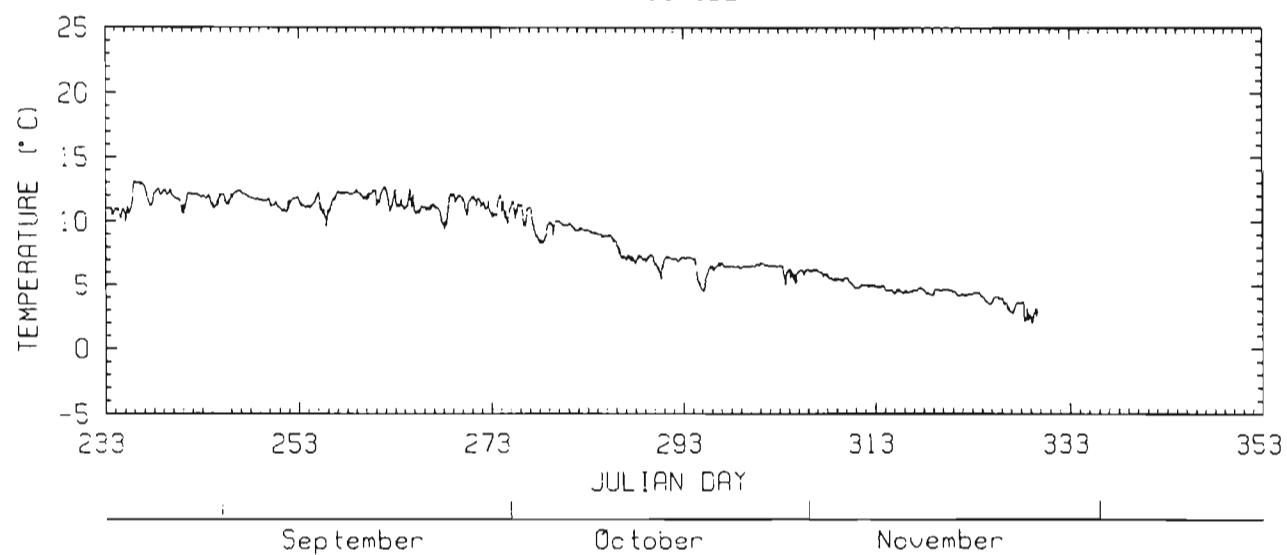
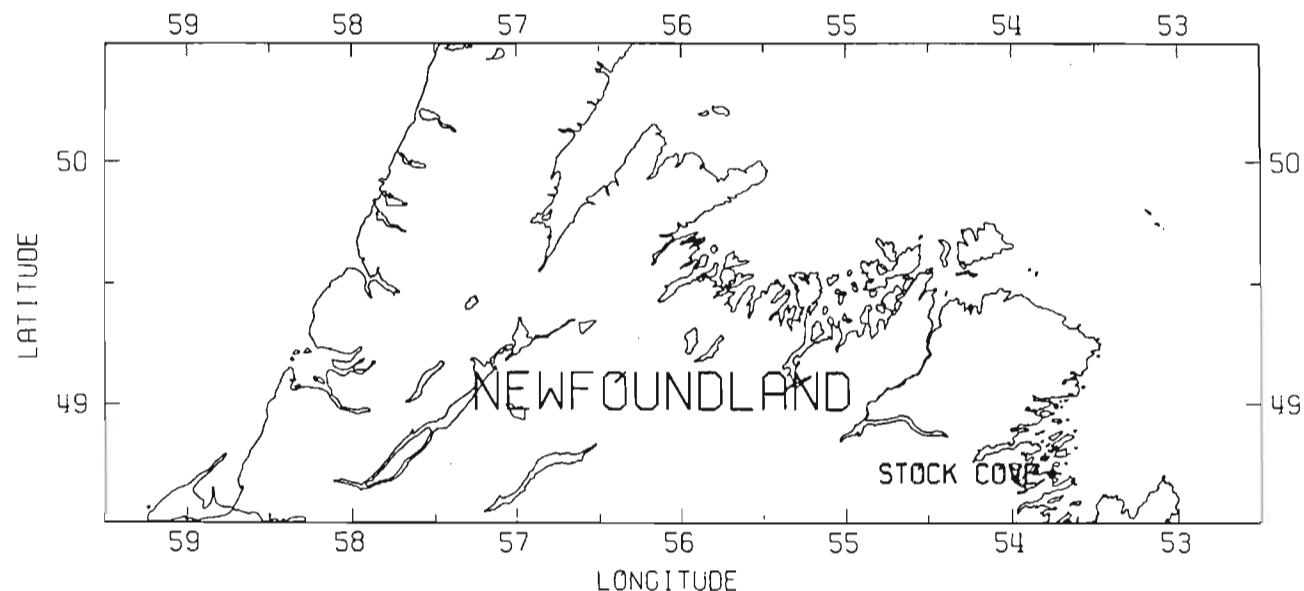
THERMOGRAPH DATA SUMMARY

STATION NAME: STOCK COVE, BONAVISTA BAY
STATION NUMBER: 110
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 7873
LATITUDE: 48.71° N
LONGITUDE: 53.76° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 20-AUG-1992 16:00 GMT
RECOVERY DATE/TIME: 24-NOV-1992 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
AUG-1992	9.90	235	13.10	235	11.75	0.71	140.3	92.3	272
SEP-1992	9.40	268	12.70	261	11.49	0.60	344.7	224.7	720
OCT-1992	4.40	295	11.60	275	7.64	1.60	237.0	113.0	744
NOV-1992	1.90	329	6.20	306	4.51	0.87	107.7	15.8	570
Total Period	1.90	329	13.10	235	8.55	3.07	829.7	445.8	2306

144



Start: 20-AUG-1992

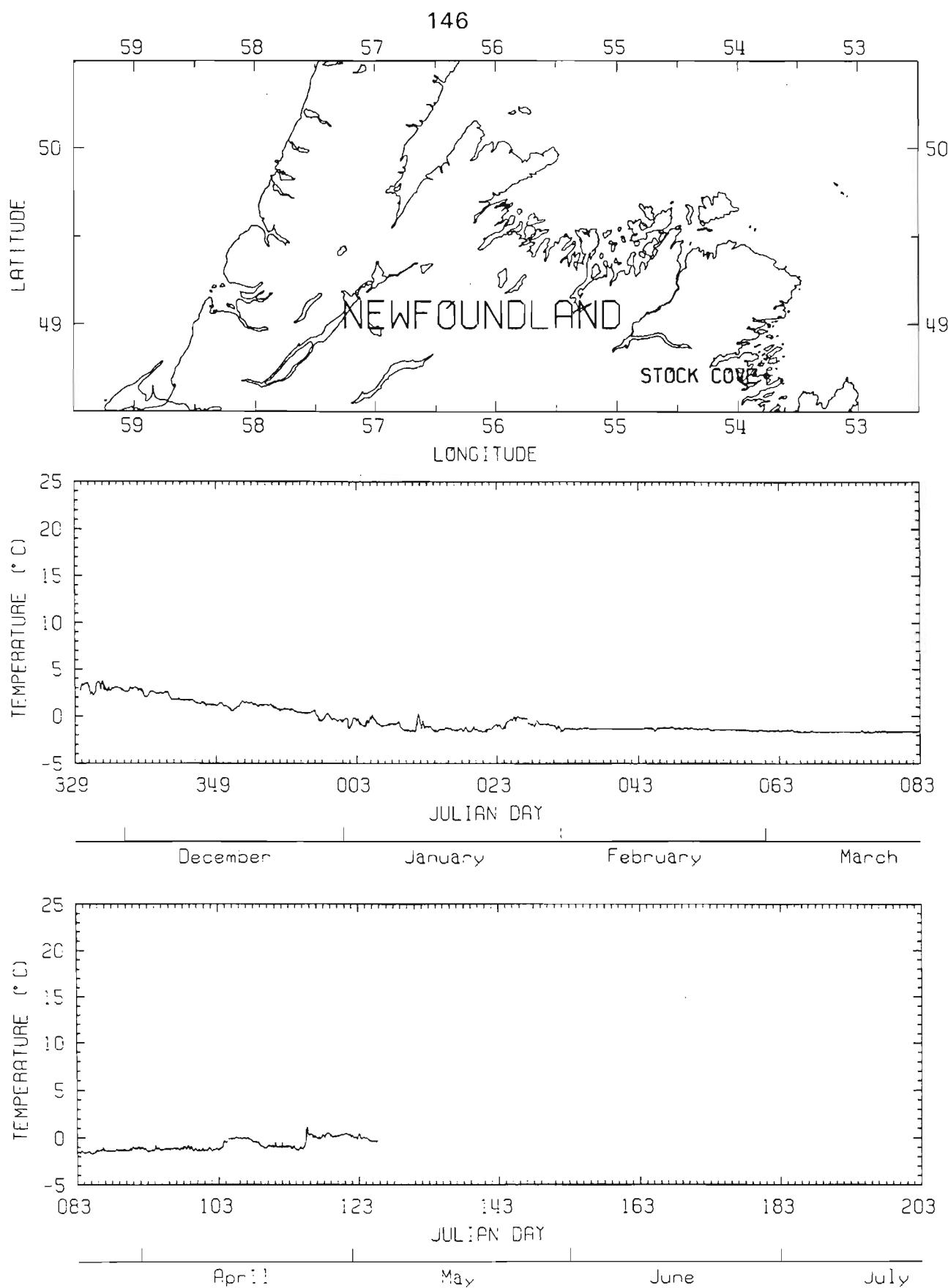
End: 24-NOV-1992

THERMOGRAPH DATA SUMMARY

STATION NAME: STOCK COVE, BONAVISTA BAY
STATION NUMBER: 110
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 7819
LATITUDE: 48.71° N
LONGITUDE: 53.76° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 10 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 24-NOV-1992 18:00 GMT
RECOVERY DATE/TIME: 5-MAY-1993 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
NOV-1992	2.15	331	3.80	333	3.02	0.38	21.0	0.0	150
DEC-1992	-0.65	366	3.10	336	1.23	0.90	39.1	0.0	744
JAN-1993	-1.70	21	0.25	11	-1.00	0.45	0.0	0.0	744
FEB-1993	-1.80	32	-1.05	47	-1.39	0.09	0.0	0.0	672
MAR-1993	-1.85	75	-0.95	86	-1.58	0.14	0.0	0.0	744
APR-1993	-1.50	93	1.20	115	-0.73	0.60	0.9	0.0	720
MAY-1993	-0.50	125	0.45	121	-0.03	0.28	0.4	0.0	114
Total Period	-1.85	75	3.80	333	-0.52	1.32	61.4	0.0	3888



Start: 24-NOV-1992

End: 5-MAY-1993

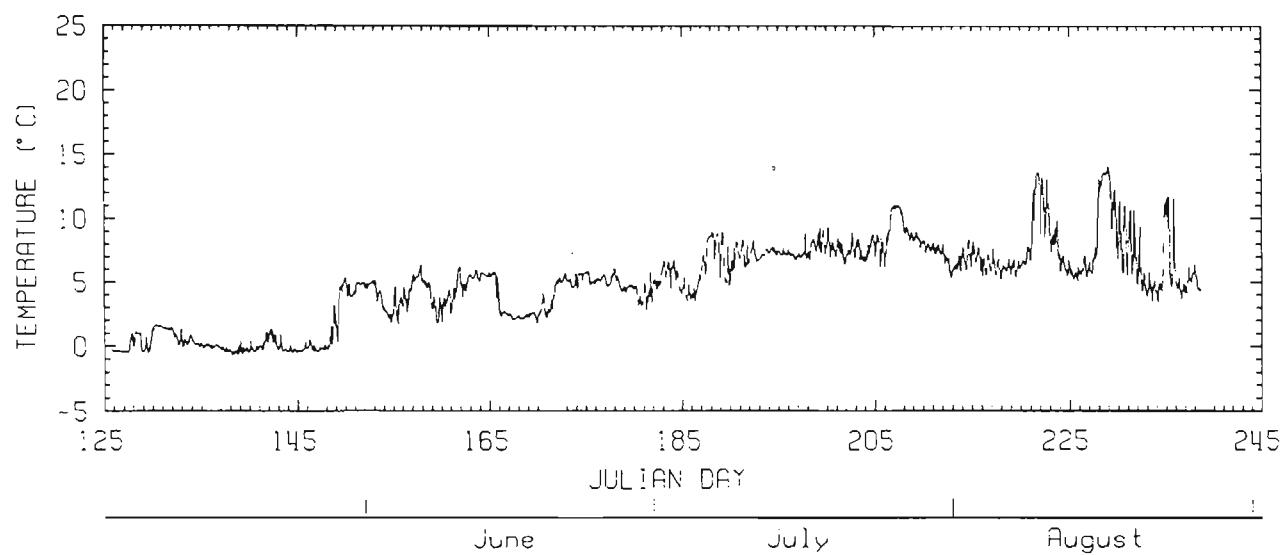
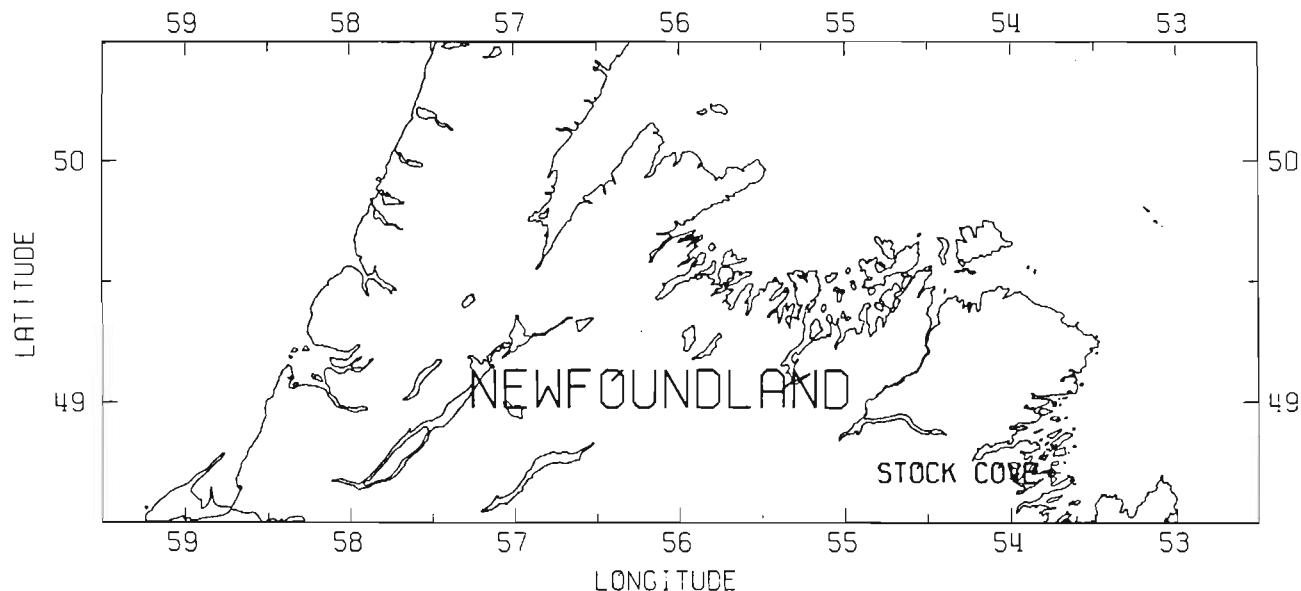
THERMOGRAPH DATA SUMMARY

STATION NAME: STOCK COVE, BONAVISTA BAY
STATION NUMBER: 110
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3267
LATITUDE: 48.71° N
LONGITUDE: 53.76° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 10 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 5-MAY-1993 18:00 GMT
RECOVERY DATE/TIME: 26-AUG-1993 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1993	-0.70	138	5.40	149	0.63	1.49	19.3	1.1	630
JUN-1993	1.70	154	6.40	157	4.19	1.23	125.6	18.0	720
JUL-1993	3.45	185	11.00	207	7.27	1.44	225.3	101.3	744
AUG-1993	3.35	234	14.05	229	7.23	2.52	187.4	83.4	617
Total Period	-0.70	138	14.05	229	4.90	3.18	557.6	203.8	2711

148



Start: 5-MAY-1993

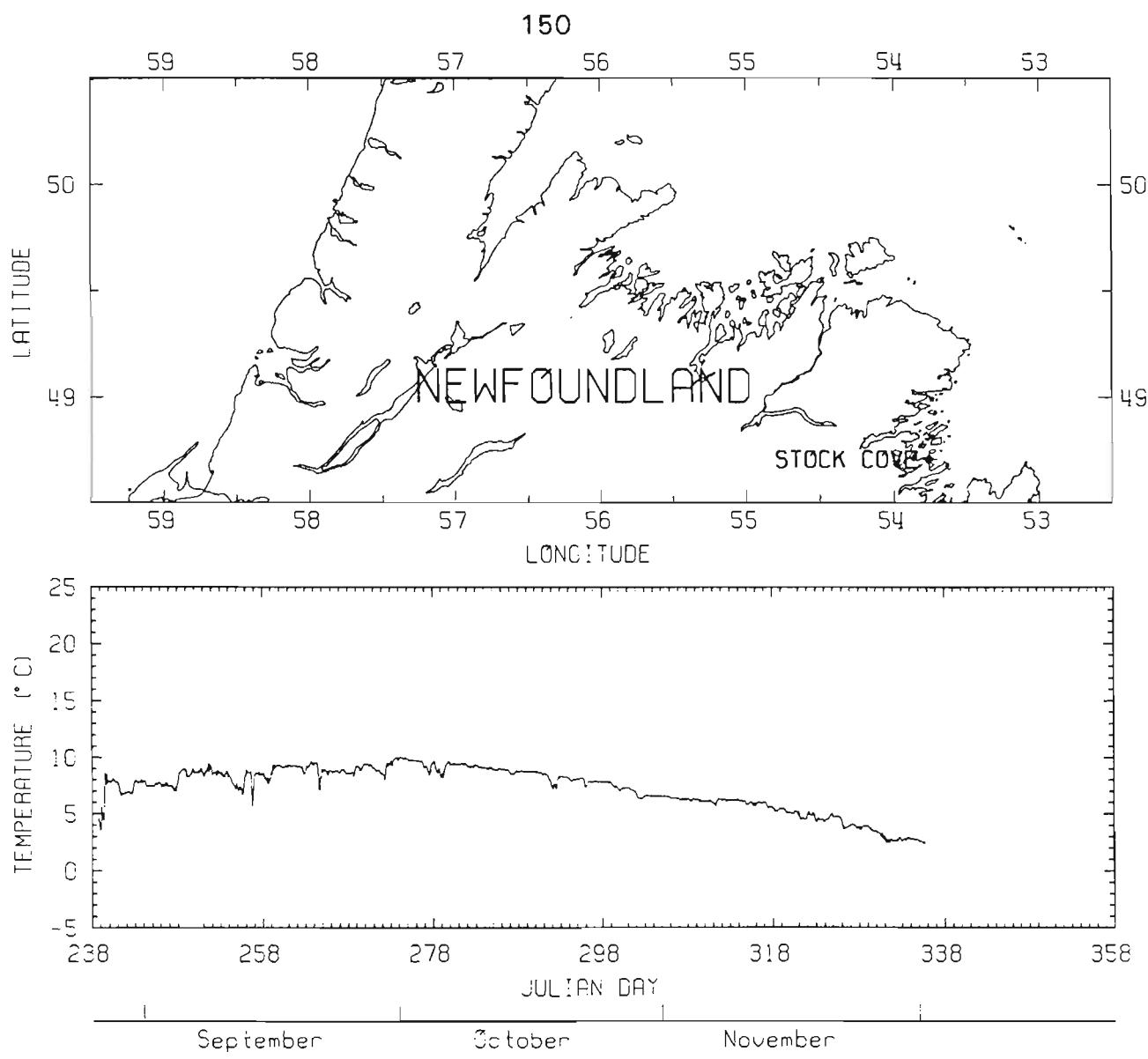
End: 26-AUG-1993

THERMOGRAPH DATA SUMMARY

STATION NAME: STOCK COVE, BONAVISTA BAY
STATION NUMBER: 110
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 7938
LATITUDE: 48.71° N
LONGITUDE: 53.76° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 10 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 26-AUG-1993 17:00 GMT
RECOVERY DATE/TIME: 1-DEC-1993 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
AUG-1993	3.40	238	8.70	239	7.05	1.22	40.3	16.3	127
SEP-1993	5.80	256	9.95	273	8.59	0.70	257.7	137.7	720
OCT-1993	6.35	302	10.05	274	8.44	0.95	261.8	137.8	744
NOV-1993	2.55	331	6.65	305	5.01	1.25	150.3	36.2	720
DEC-1993	2.55	335	2.70	335	2.60	0.05	2.6	0.0	19
Total Period	2.55	331	10.05	274	7.31	1.93	712.8	328.1	2330



Start: 26-AUG-1993

End: 1-DEC-1993

Appendix 7. Time Series Plots and Monthly Statistics
from Unit Area 3Lb.



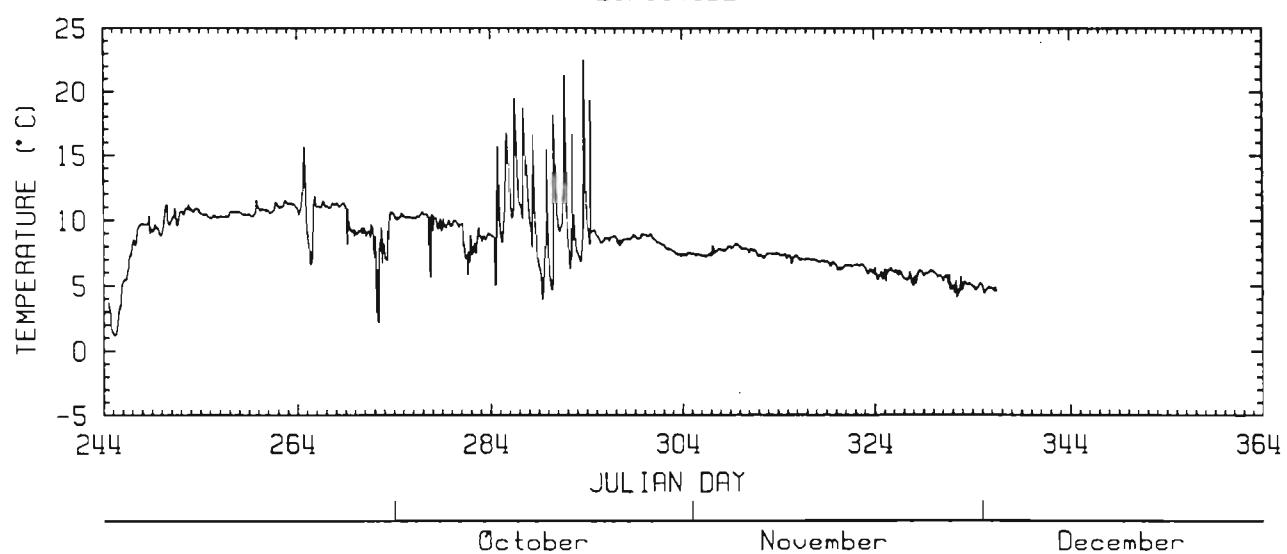
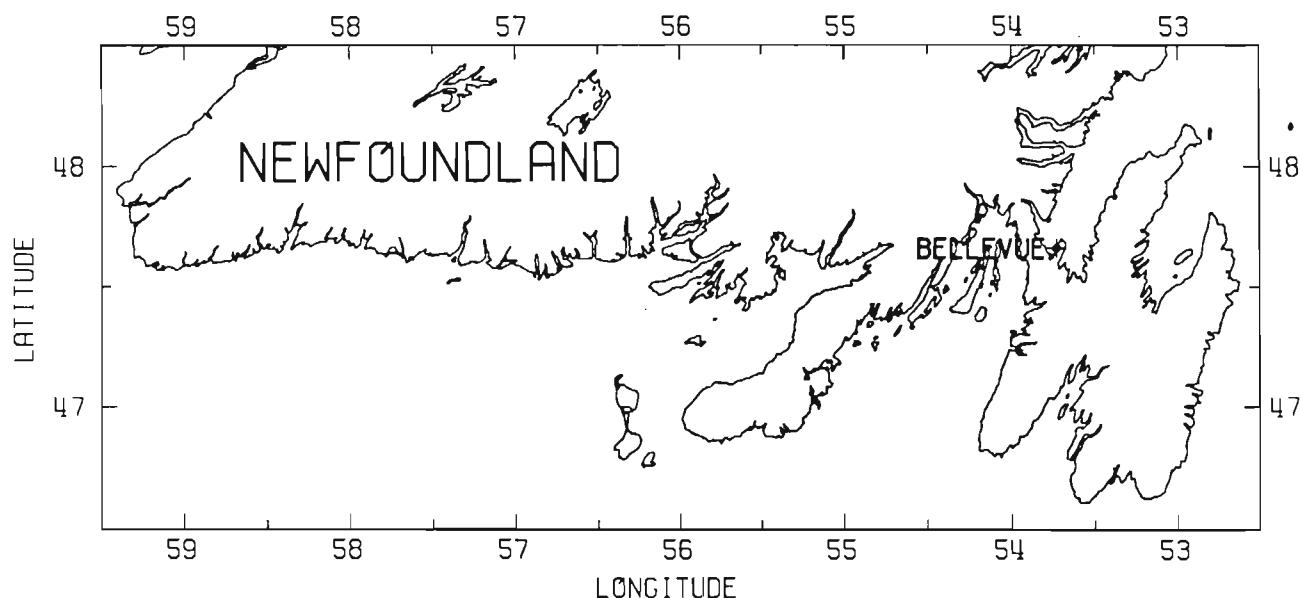
THERMOGRAPH DATA SUMMARY

STATION NAME: BELLEVUE
STATION NUMBER: 146
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3262
LATITUDE: 47.66° N
LONGITUDE: 53.73° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 11 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 1-SEP-1991 12:00 GMT
RECOVERY DATE/TIME: 2-DEC-1991 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
SEP-1991	1.20	245	15.65	264	9.61	2.22	284.8	167.7	708
OCT-1991	3.90	289	22.45	293	9.38	2.40	290.9	166.9	744
NOV-1991	4.10	332	8.25	309	6.57	0.93	197.2	77.2	720
DEC-1991	4.35	335	5.10	335	4.74	0.16	9.5	1.5	37
Total Period	1.20	245	22.45	293	8.46	2.43	782.4	413.3	2209

154



Start: 1-SEP-1991

End: 2-DEC-1991

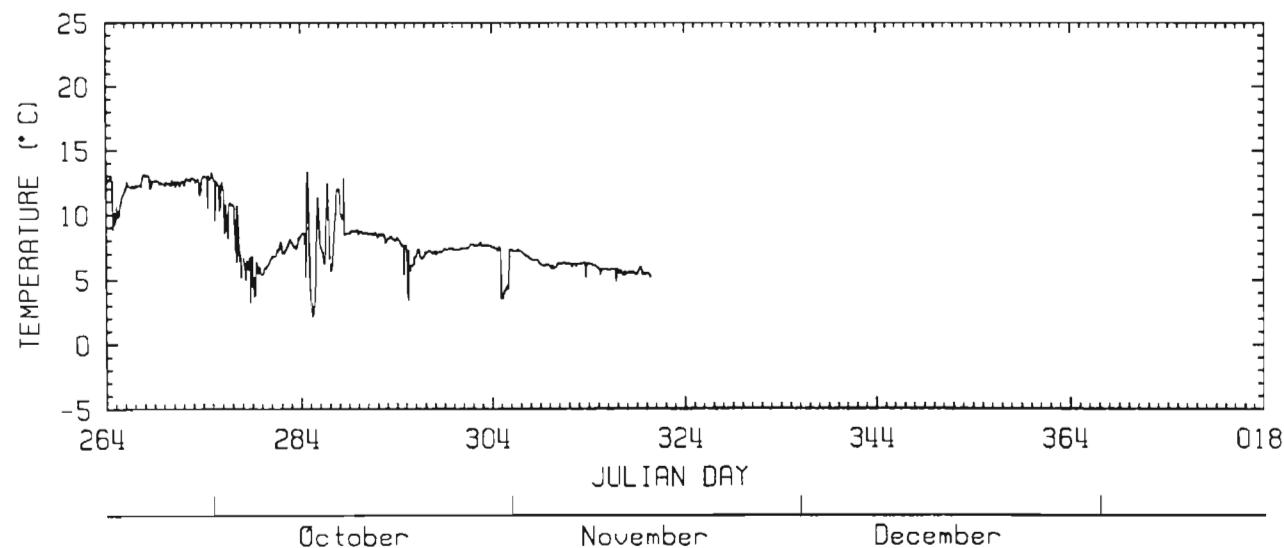
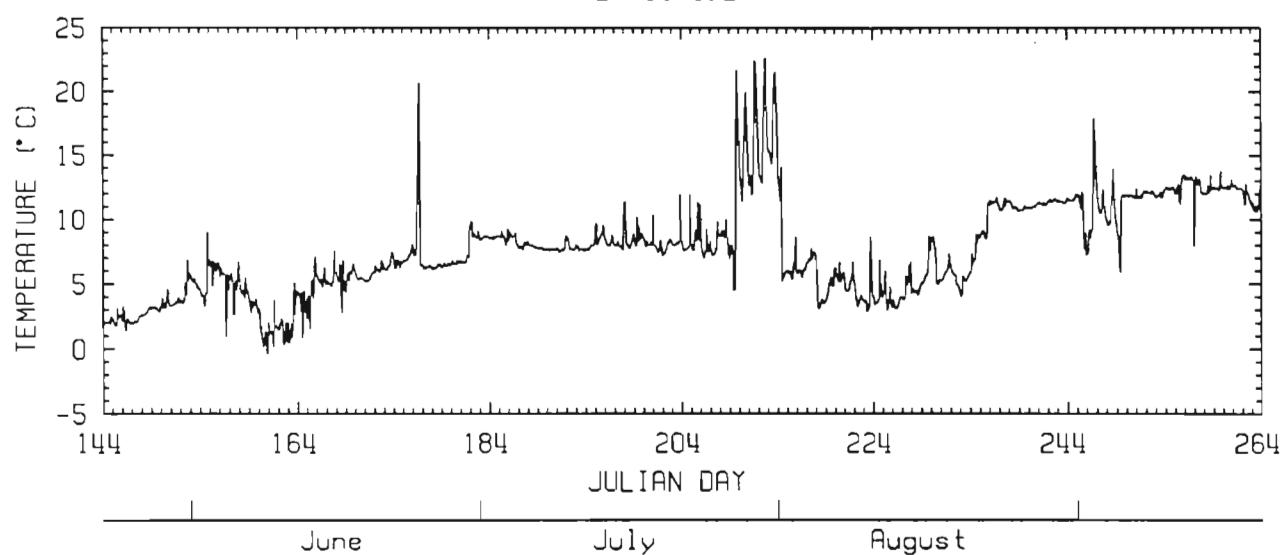
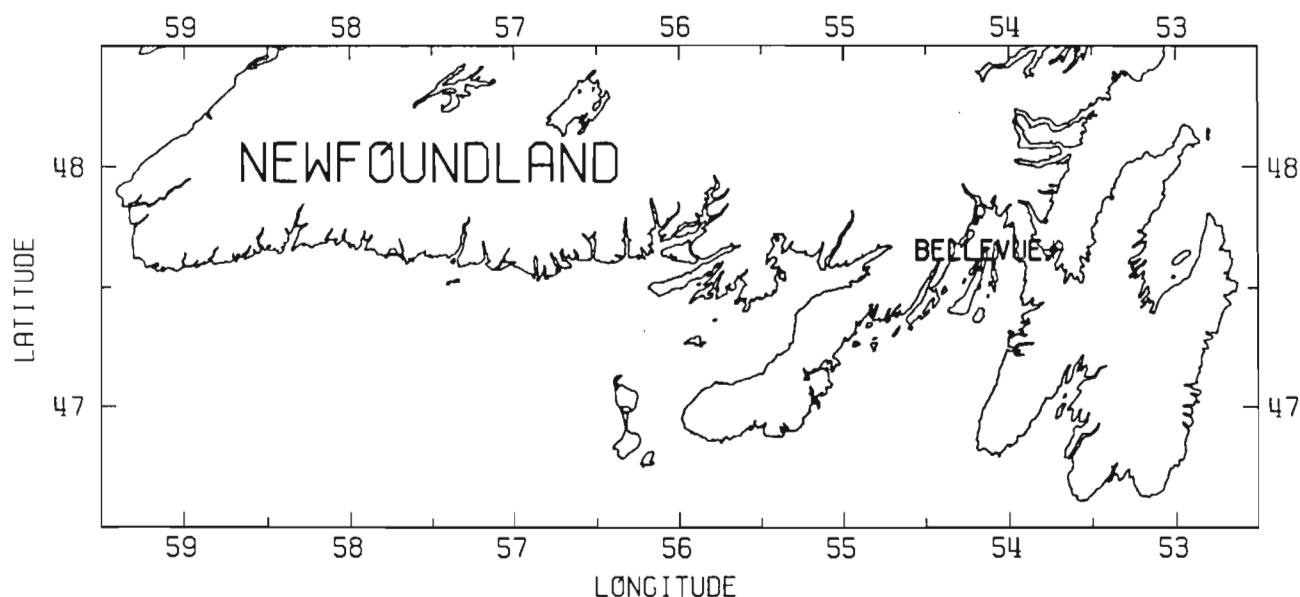
THERMOGRAPH DATA SUMMARY

STATION NAME: BELLEVUE
STATION NUMBER: 146
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5455
LATITUDE: 47.66° N
LONGITUDE: 53.73° W
INSTRUMENT DEPTH: 13 m
WATER DEPTH: 13 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 23-MAY-1992 15:00 GMT
RECOVERY DATE/TIME: 15-NOV-1992 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1992	1.40	146	6.80	152	2.96	0.89	26.1	0.5	201
JUN-1992	-0.40	160	20.70	176	5.30	2.26	159.1	50.1	720
JUL-1992	4.50	209	22.60	212	9.34	3.19	289.4	165.4	744
AUG-1992	2.90	223	15.10	214	7.21	3.03	223.6	100.3	744
SEP-1992	5.90	249	17.90	246	11.96	1.23	358.7	238.7	720
OCT-1992	2.10	285	13.30	284	7.66	1.82	237.6	113.6	744
NOV-1992	4.80	316	7.30	306	6.08	0.51	90.8	30.8	348
Total Period	-0.40	160	22.60	212	7.85	3.32	1385.4	699.5	4221

156



Start: 23-MAY-1992

End: 15-NOV-1992

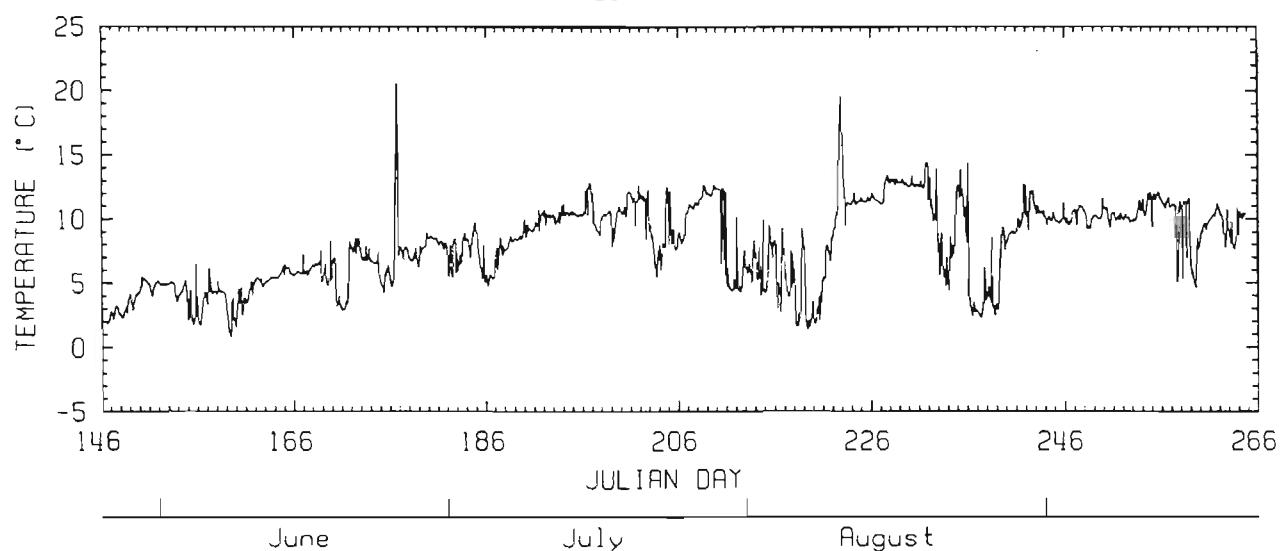
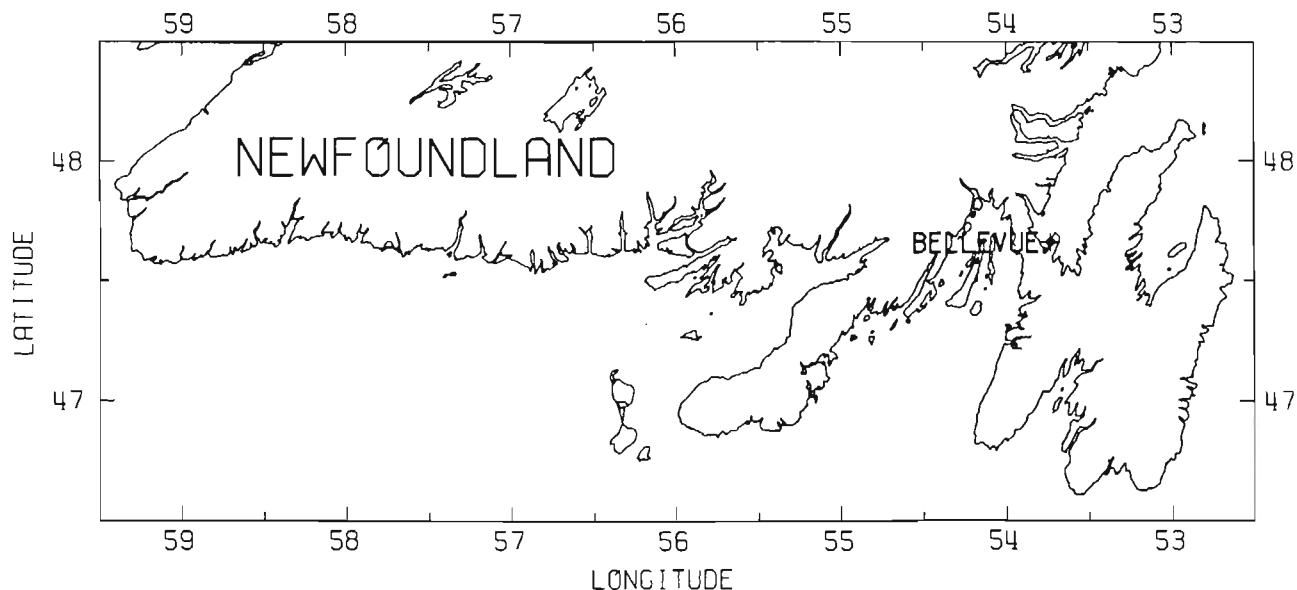
THERMOGRAPH DATA SUMMARY

STATION NAME: BELLEVUE
STATION NUMBER: 146
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 7944
LATITUDE: 47.66° N
LONGITUDE: 53.73° W
INSTRUMENT DEPTH: 13 m
WATER DEPTH: 13 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 26-MAY-1993 13:00 GMT
RECOVERY DATE/TIME: 21-SEP-1993 20:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1993	1.80	146	5.55	150	3.70	1.09	21.3	1.8	131
JUN-1993	0.75	159	20.60	176	5.63	2.09	168.8	53.4	720
JUL-1993	4.30	212	12.85	196	9.24	2.15	286.3	162.3	744
AUG-1993	1.35	219	19.60	222	8.64	3.78	267.8	146.5	744
SEP-1993	4.55	259	12.10	254	9.98	1.40	209.6	125.6	501
Total Period	0.75	159	20.60	176	8.04	3.15	953.9	489.6	2840

158



Start: 26-MAY-1993

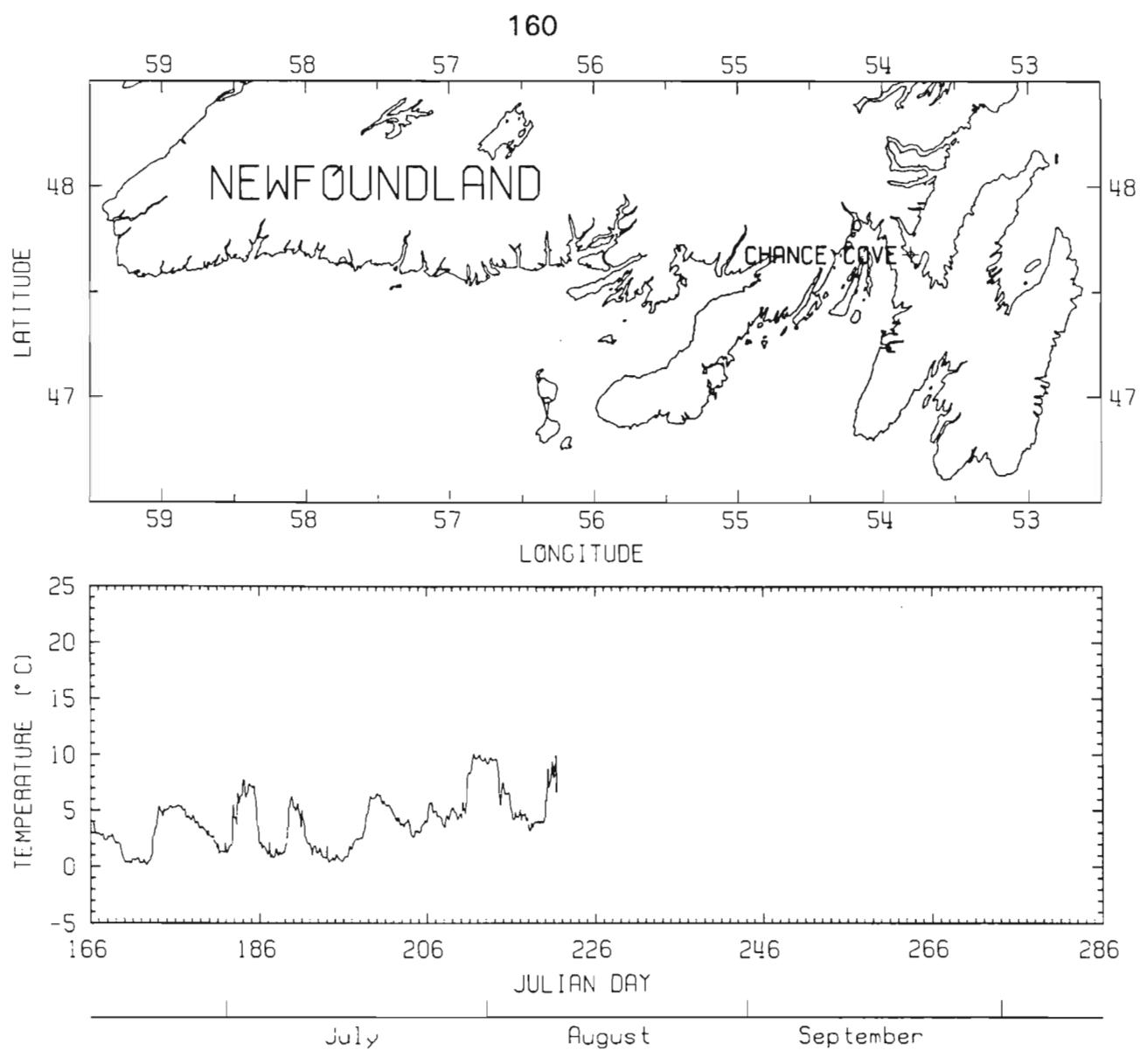
End: 21-SEP-1993

THERMOGRAPH DATA SUMMARY

STATION NAME: CHANCE COVE
STATION NUMBER: 149
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 61690
LATITUDE: 47.68° N
LONGITUDE: 53.80° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 18 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 15-JUN-1990 09:10 GMT
RECOVERY DATE/TIME: 9-AUG-1990 08:57 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1990	0.08	172	5.43	176	2.69	1.66	44.4	3.9	216
JUL-1990	0.39	194	10.18	211	4.05	2.31	123.6	27.7	433
AUG-1990	3.15	218	9.98	221	6.15	2.10	56.5	20.8	128
Total Period	0.08	172	10.18	211	4.01	2.39	224.5	52.4	777



Start: 15-JUN-1990

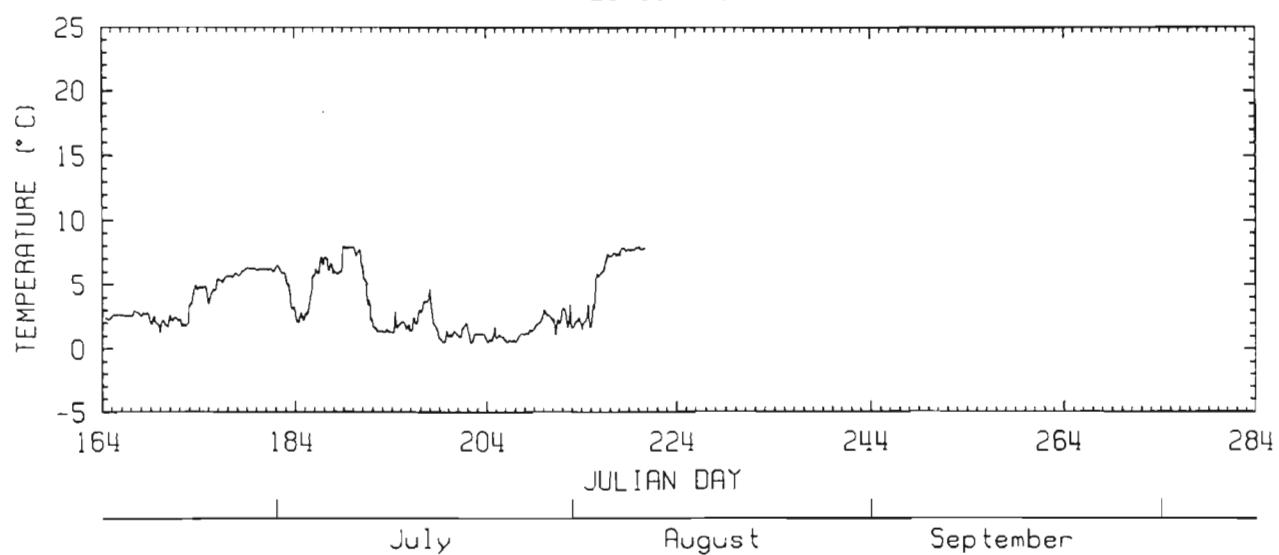
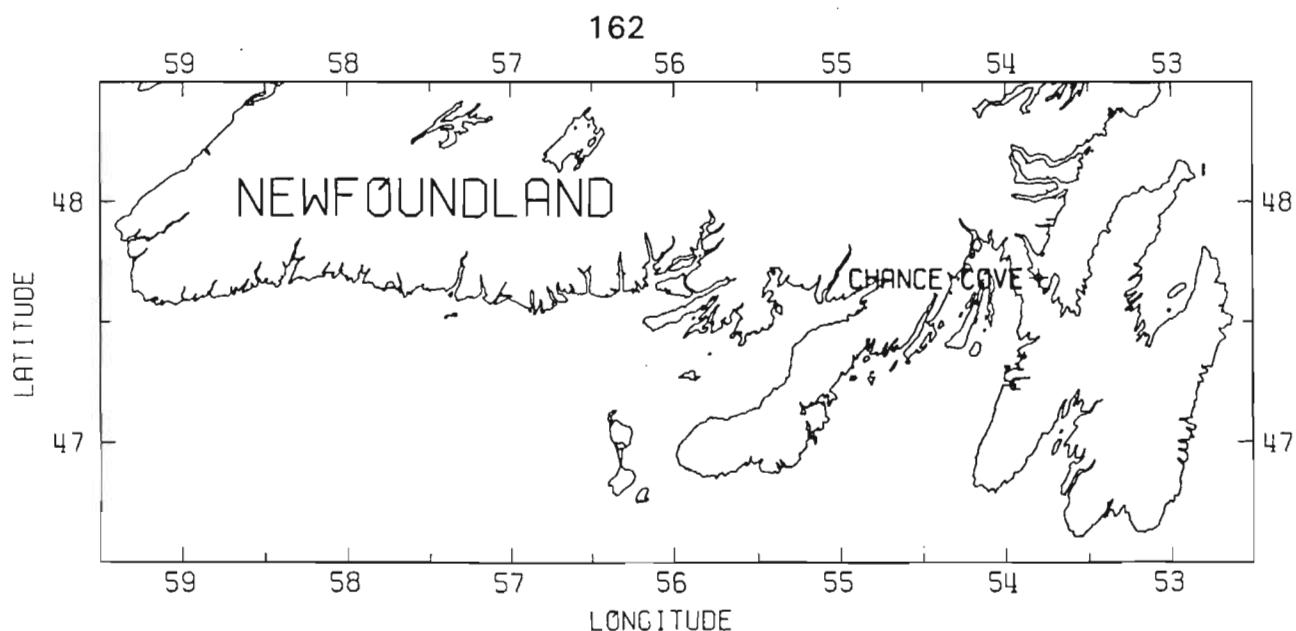
End: 9-AUG-1990

THERMOGRAPH DATA SUMMARY

STATION NAME: CHANCE COVE
STATION NUMBER: 149
INSTRUMENT TYPE: Ryan Thermograph (J-90)
INSTRUMENT S/N: 64263
LATITUDE: 47.68° N
LONGITUDE: 53.80° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 18 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 13-JUN-1991 09:00 GMT
RECOVERY DATE/TIME: 8-AUG-1991 18:42 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1991	1.28	170	6.30	179	3.90	1.65	70.0	12.7	209
JUL-1991	0.44	202	7.98	189	2.87	2.18	89.0	16.6	369
AUG-1991	1.50	214	8.03	220	5.65	2.43	45.7	17.5	93
Total Period	0.44	202	8.03	220	3.58	2.28	204.7	46.7	671



Start: 13-JUN-1991

End: 8-AUG-1991

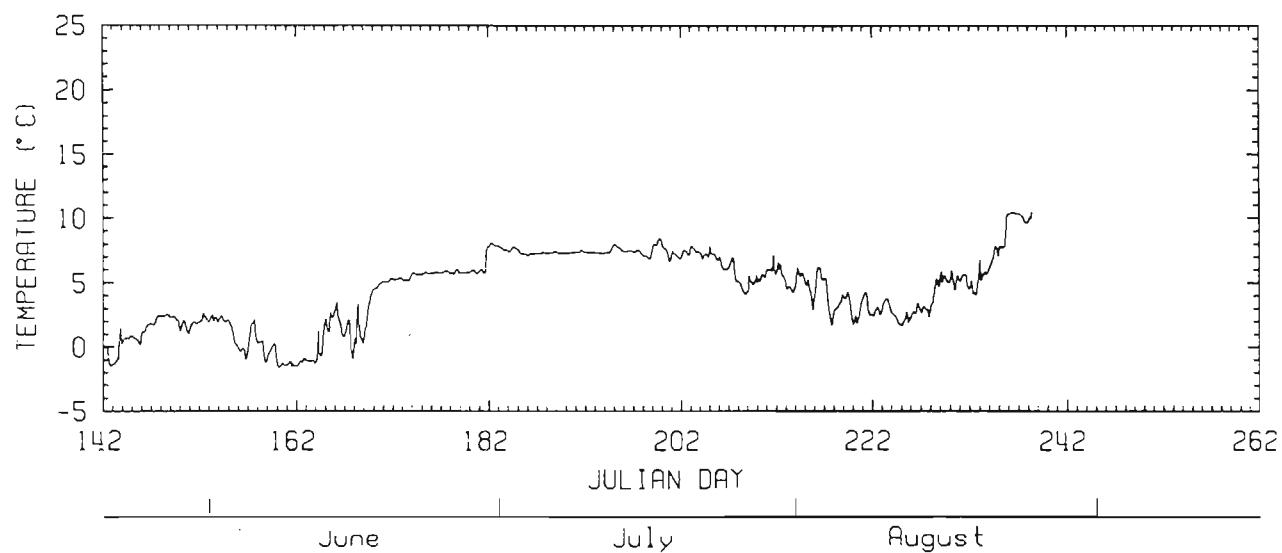
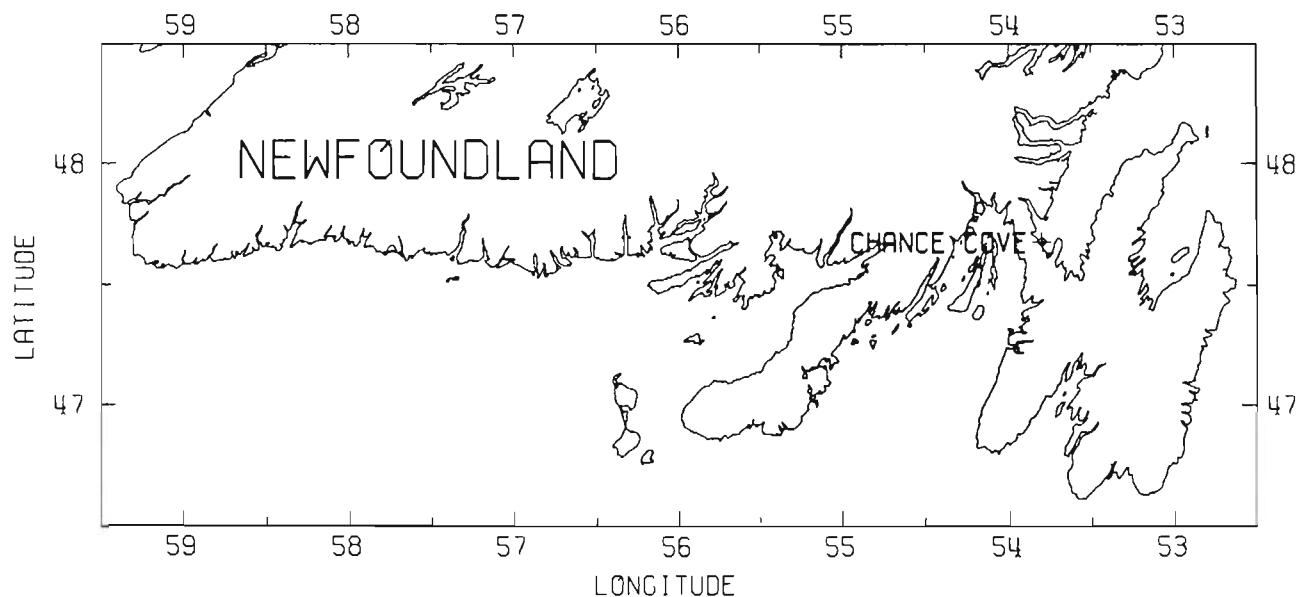
THERMOGRAPH DATA SUMMARY

STATION NAME: CHANCE COVE
STATION NUMBER: 149
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 61690
LATITUDE: 47.68° N
LONGITUDE: 53.80° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 18 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 21-MAY-1992 11:00 GMT
RECOVERY DATE/TIME: 25-AUG-1992 10:57 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1992	-1.51	142	2.65	152	1.25	1.09	14.8	0.0	71
JUN-1992	-1.58	160	8.08	182	2.50	2.75	91.0	23.4	232
JUL-1992	4.10	208	8.49	199	6.82	1.00	214.8	90.8	208
AUG-1992	1.68	225	10.46	238	4.83	2.31	124.1	35.9	189
Total Period	-1.58	160	10.46	238	4.28	2.89	444.7	150.2	700

164



Start: 21-MAY-1992

End: 25-AUG-1992

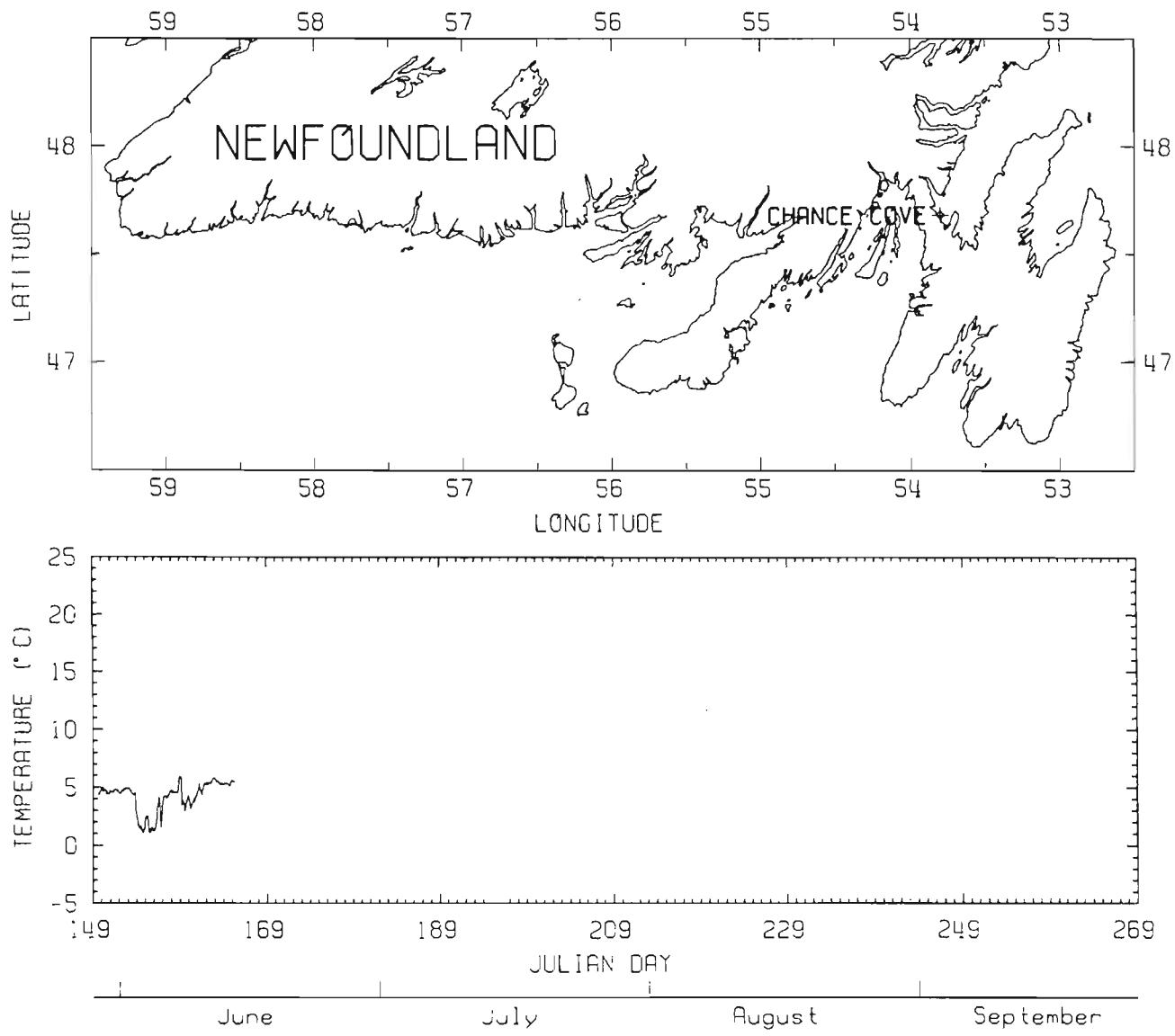
THERMOGRAPH DATA SUMMARY

STATION NAME: CHANCE COVE
STATION NUMBER: 149
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5474
LATITUDE: 47.68° N
LONGITUDE: 53.80° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 18 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 29-MAY-1993 14:00 GMT
RECOVERY DATE/TIME: 14-JUN-1993 10:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1993	4.30	149	4.90	150	4.63	0.15	13.8	1.8	58
JUN-1993	1.00	154	5.90	159	4.11	1.38	58.3	8.8	323
Total Period	1.00	154	5.90	159	4.19	1.28	72.1	10.6	381

166



Start: 29-MAY-1993

End: 14-JUN-1993

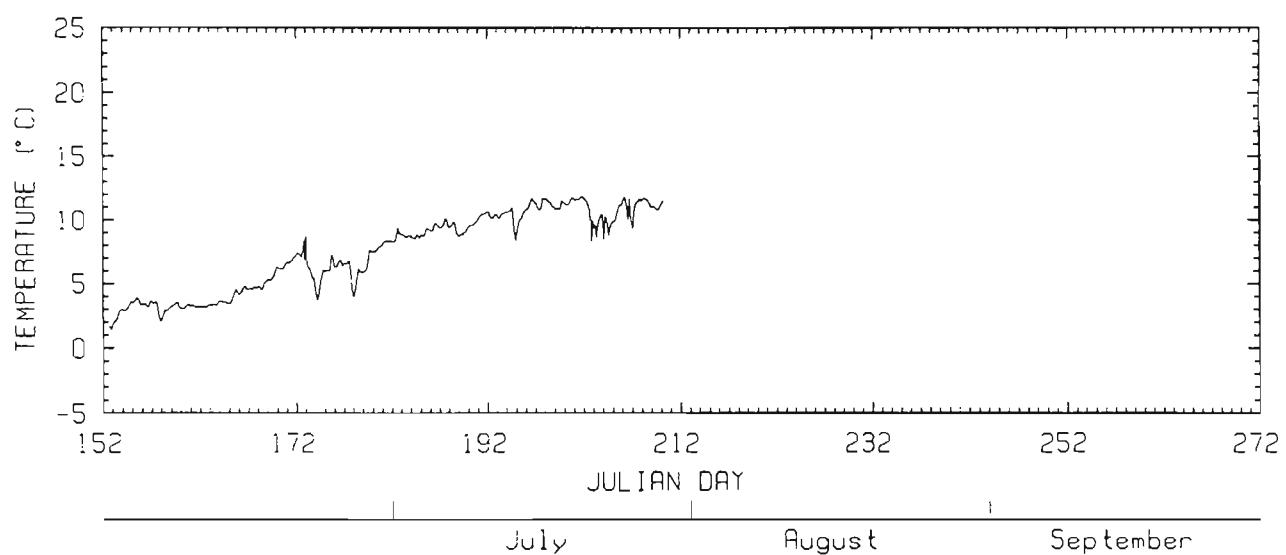
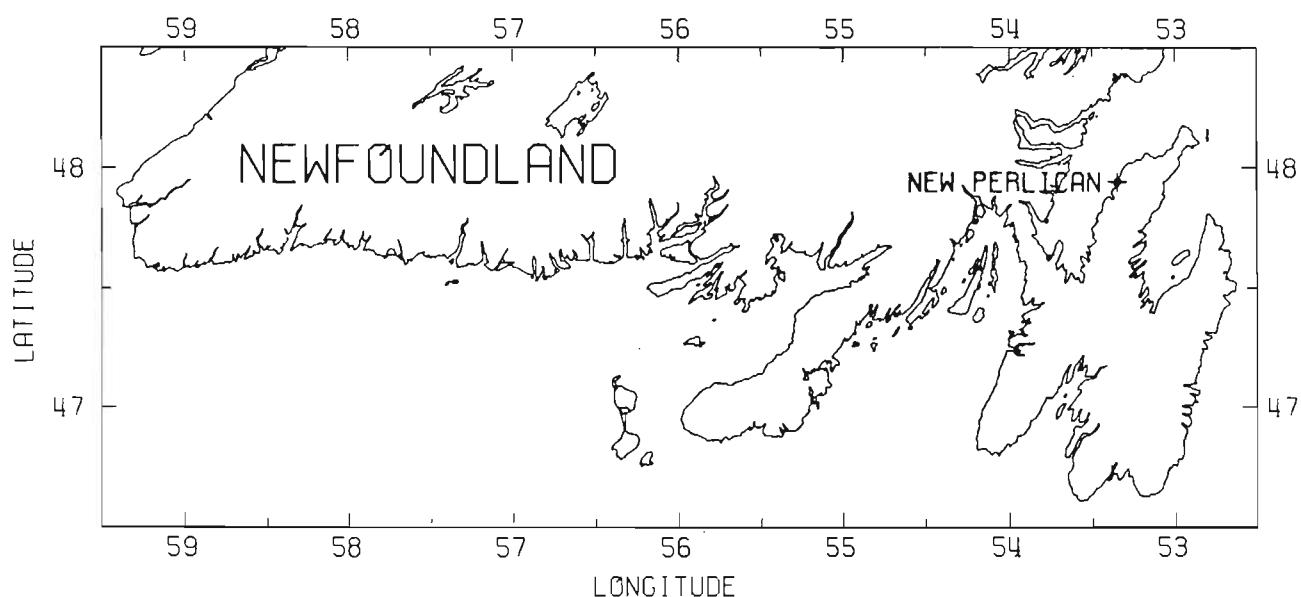
THERMOGRAPH DATA SUMMARY

STATION NAME: NEW PERLICAN
STATION NUMBER: 178
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 63347
LATITUDE: 47.94° N
LONGITUDE: 53.35° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 18 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 1-JUN-1991 16:30 GMT
RECOVERY DATE/TIME: 29-JUL-1991 06:10 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1991	1.42	152	8.75	173	4.85	1.78	142.3	34.6	178
JUL-1991	8.25	202	11.85	201	10.25	1.04	298.3	182.3	173
Total Period	1.42	152	11.85	201	7.51	3.07	440.7	216.9	351

168



Start: 1-JUN-1991

End: 29-JUL-1991

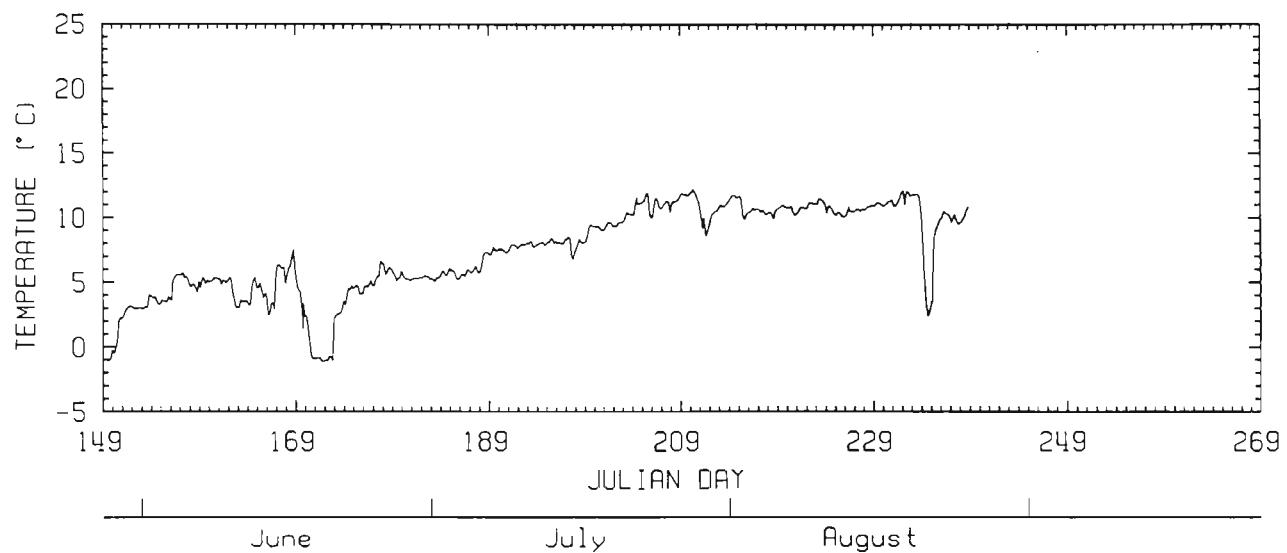
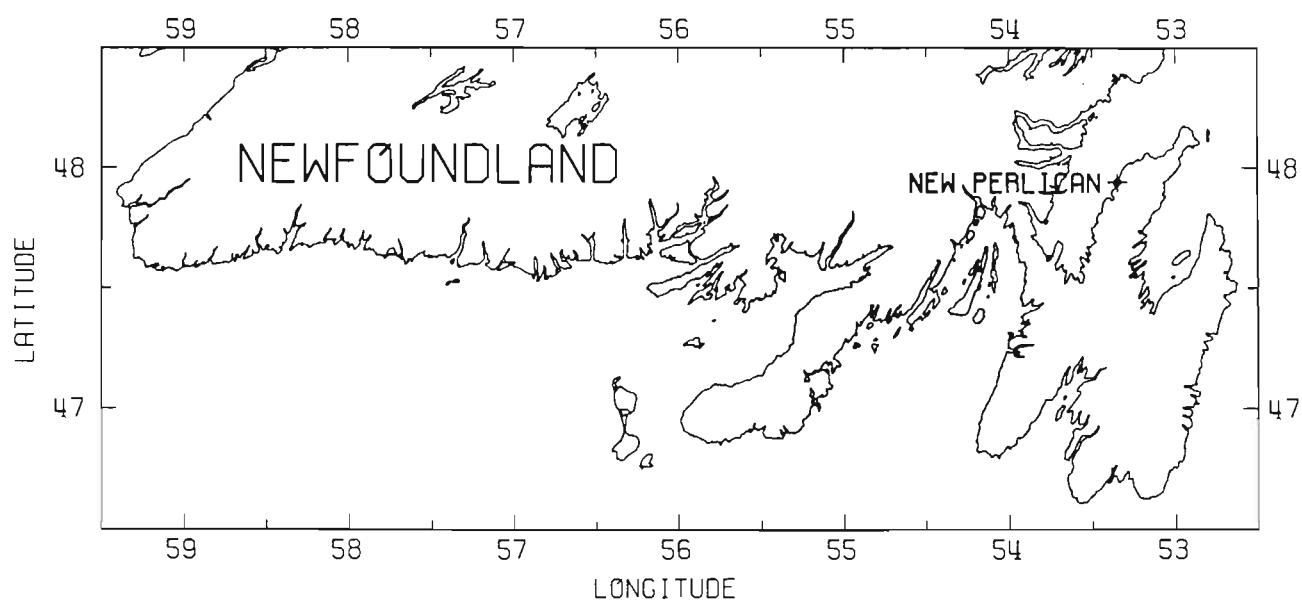
THERMOGRAPH DATA SUMMARY

STATION NAME: NEW PERLICAN
STATION NUMBER: 178
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 61654
LATITUDE: 47.94° N
LONGITUDE: 53.35° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 18 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 28-MAY-1992 12:00 GMT
RECOVERY DATE/TIME: 25-AUG-1992 23:55 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1992	-1.11	149	3.16	151	1.74	1.61	6.9	0.0	22
JUN-1992	-1.15	171	7.53	168	4.13	1.87	125.9	22.0	186
JUL-1992	5.06	183	12.24	210	8.75	1.97	270.5	146.5	190
AUG-1992	2.35	234	12.13	232	10.42	1.55	260.2	160.2	154
Total Period	-1.15	171	12.24	210	7.38	3.37	663.5	328.7	552

170



Start: 28-MAY-1992

End: 25-AUG-1992

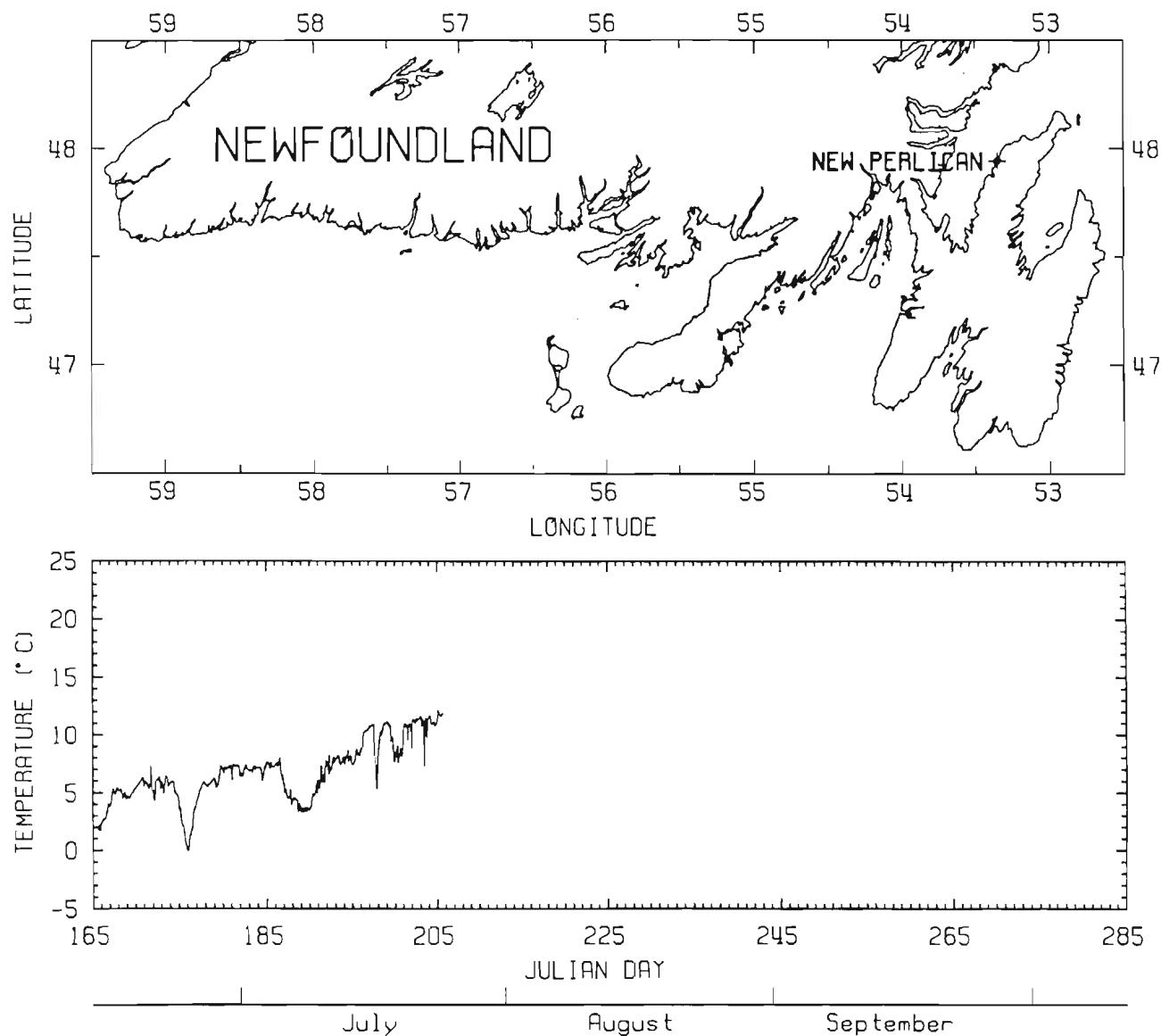
THERMOGRAPH DATA SUMMARY

STATION NAME: NEW PERLICAN
STATION NUMBER: 178
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 6744
LATITUDE: 47.94° N
LONGITUDE: 53.35° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 18 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 14-JUN-1993 16:00 GMT
RECOVERY DATE/TIME: 24-JUL-1993 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1993	-0.10	176	7.40	181	5.02	1.66	83.3	22.4	392
JUL-1993	3.25	188	12.20	205	8.01	2.39	193.4	97.9	569
Total Period	-0.10	176	12.20	205	6.79	2.58	276.7	120.2	961

172



Start: 14-JUN-1993

End: 24-JUL-1993

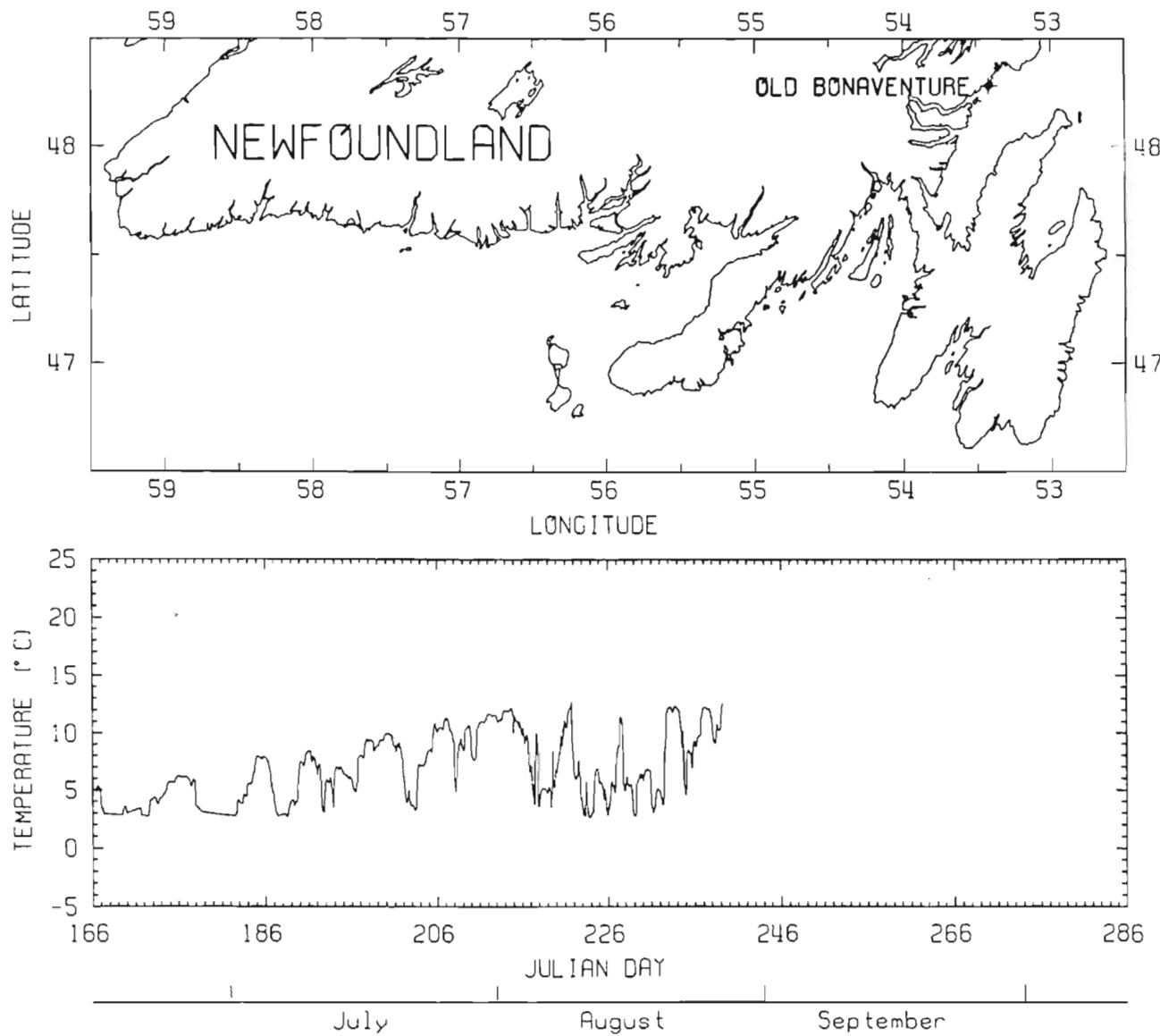
THERMOGRAPH DATA SUMMARY

STATION NAME: OLD BONAVVENTURE
STATION NUMBER: 100
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 63282
LATITUDE: 48.28° N
LONGITUDE: 53.42° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 22 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 15-JUN-1990 10:30 GMT
RECOVERY DATE/TIME: 27-AUG-1990 06:14 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1990	2.69	172	6.21	176	4.59	1.17	51.1	7.9	114
JUL-1990	2.65	188	11.74	212	7.40	2.40	226.3	104.5	392
AUG-1990	2.65	223	12.78	221	7.81	2.91	215.6	107.6	442
Total Period	2.65	188	12.78	221	7.25	2.74	493.1	220.0	948

174



Start: 15-JUN-1990

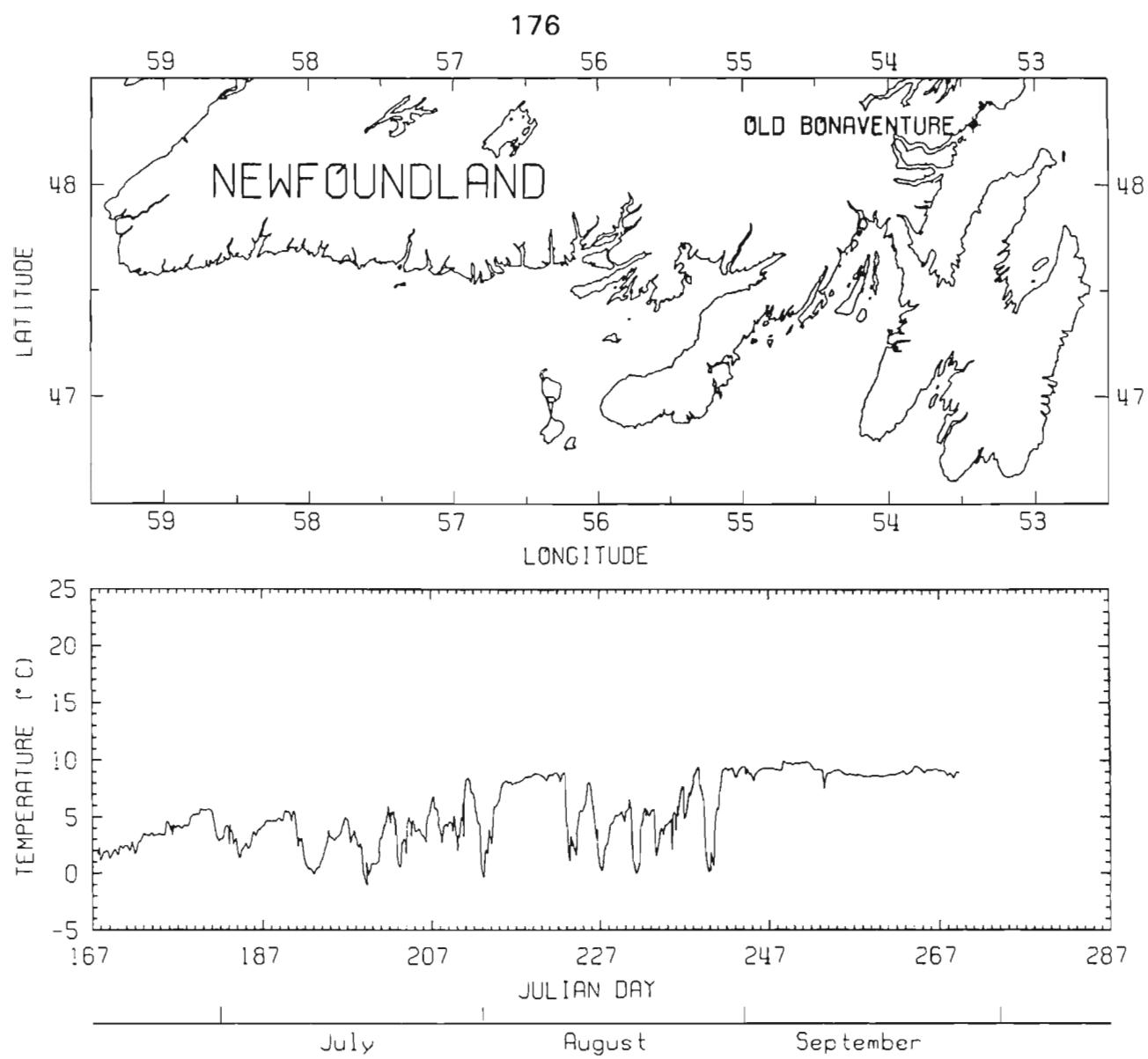
End: 27-AUG-1990

THERMOGRAPH DATA SUMMARY

STATION NAME: OLD BONAVVENTURE
STATION NUMBER: 100
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 61524
LATITUDE: 48.28° N
LONGITUDE: 53.42° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 22 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 16-JUN-1991 13:00 GMT
RECOVERY DATE/TIME: 26-SEP-1991 07:39 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1991	1.05	167	5.74	179	3.36	1.26	50.7	3.8	89
JUL-1991	-1.04	199	8.45	211	3.53	1.76	108.3	11.2	221
AUG-1991	-0.34	213	9.44	243	5.54	2.70	178.7	65.8	215
SEP-1991	7.42	253	9.96	248	9.10	0.45	235.3	131.3	97
Total Period	-1.04	199	9.96	248	5.07	2.78	573.1	212.0	622



Start: 16-JUN-1991

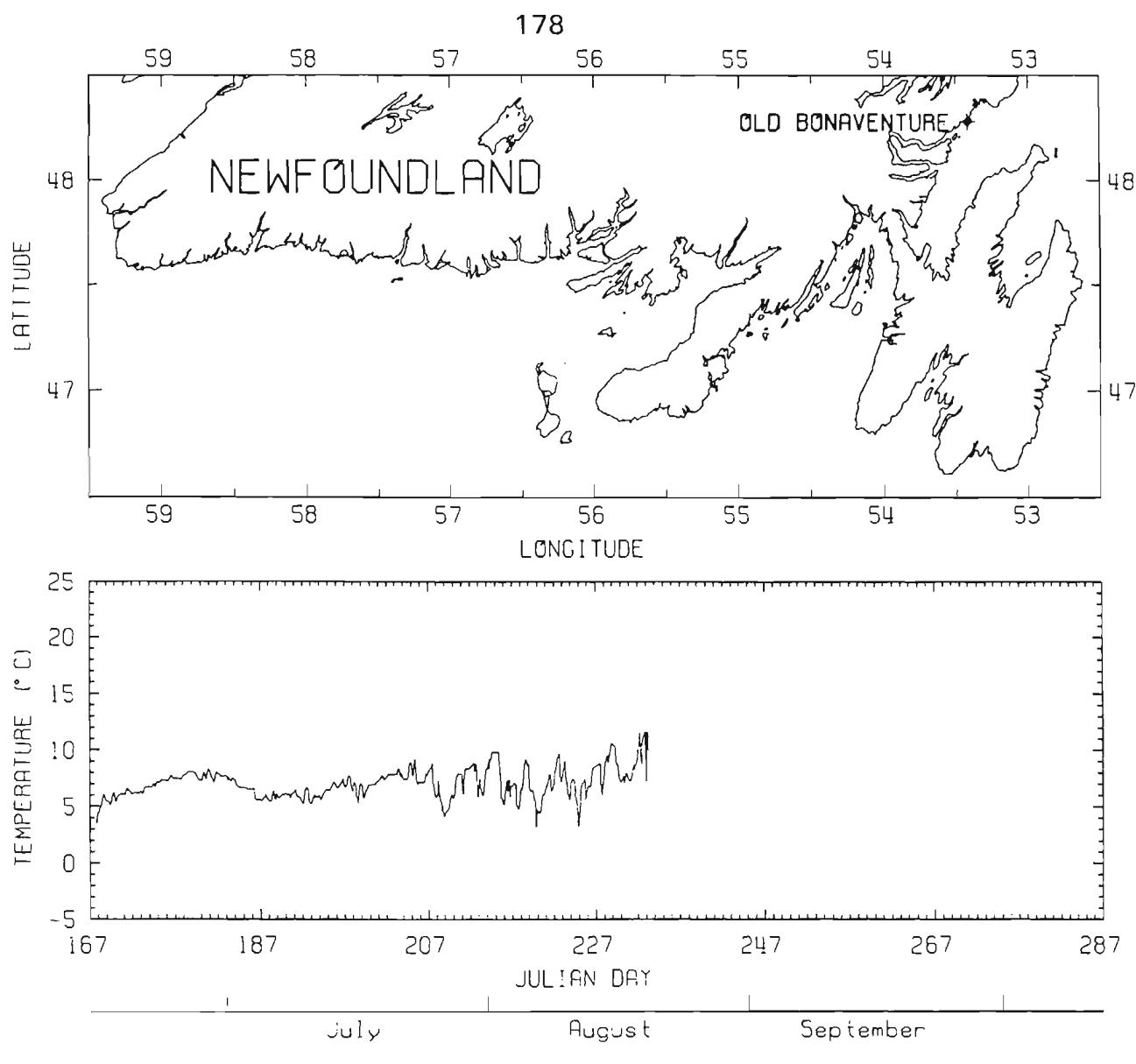
End: 26-SEP-1991

THERMOGRAPH DATA SUMMARY

STATION NAME: OLD BONAVVENTURE
STATION NUMBER: 100
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 63424
LATITUDE: 48.28° N
LONGITUDE: 53.42° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 22 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 15-JUN-1992 17:35 GMT
RECOVERY DATE/TIME: 20-AUG-1992 06:50 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-1992	3.49	167	8.34	180	6.79	1.09	107.3	43.4	126
JUL-1992	4.09	208	9.27	205	6.77	1.01	209.3	85.3	426
AUG-1992	3.11	219	11.63	233	7.56	1.78	152.4	72.4	285
Total Period	3.11	219	11.63	233	7.04	1.38	469.0	201.1	837



Start: 15-JUN-1992

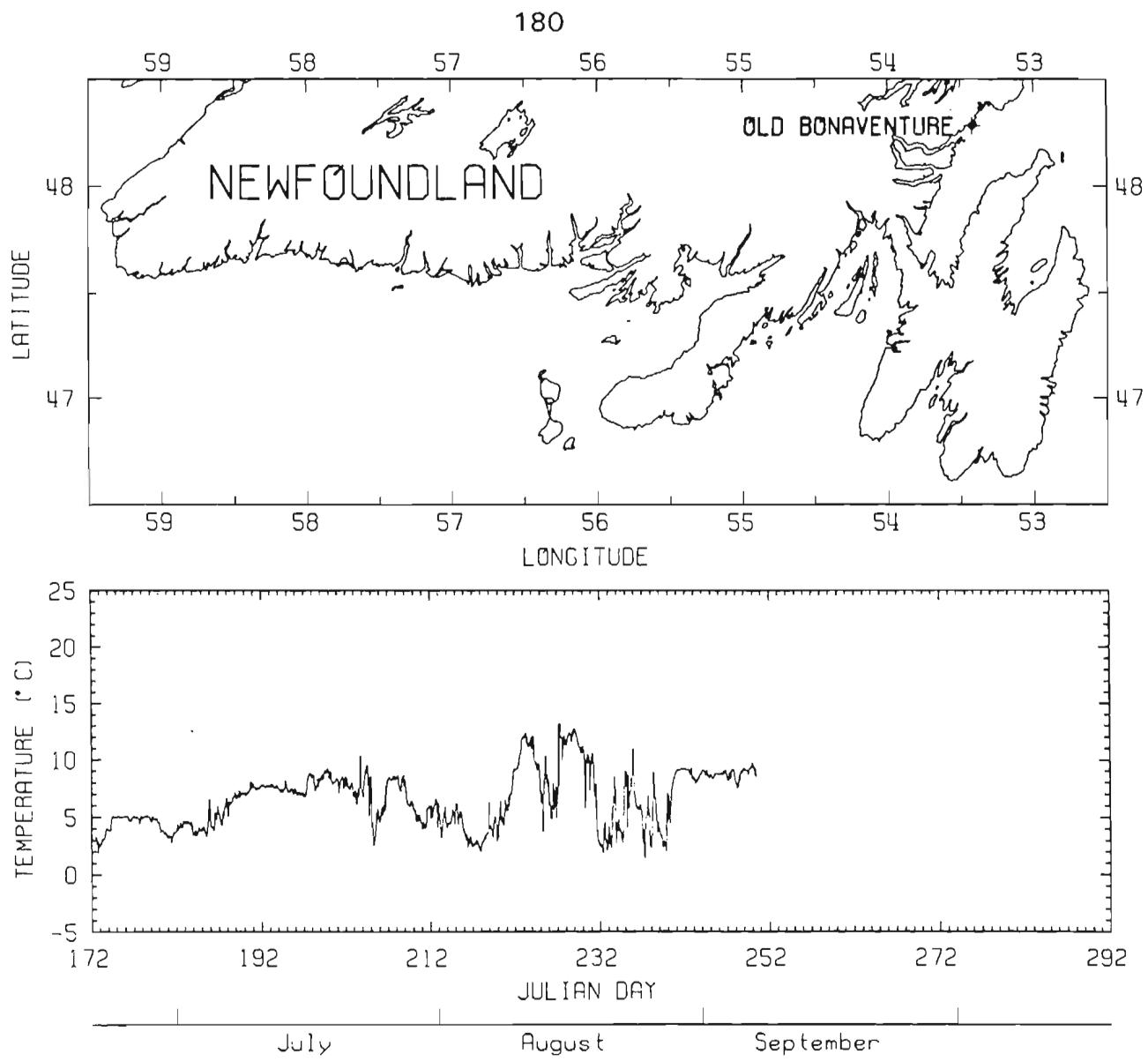
End: 20-AUG-1992

THERMOGRAPH DATA SUMMARY

STATION NAME: OLD BONAVVENTURE
STATION NUMBER: 100
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 6741
LATITUDE: 48.28° N
LONGITUDE: 53.42° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 22 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 21-JUN-1993 11:00 GMT
RECOVERY DATE/TIME: 7-SEP-1993 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1993	1.80	172	5.10	175	4.30	0.81	42.3	5.1	229
JUL-1993	2.45	205	10.35	203	6.60	1.61	204.7	81.0	744
AUG-1993	1.40	237	13.15	227	6.74	3.10	208.8	89.7	744
SEP-1993	7.50	248	9.70	250	8.79	0.41	61.7	33.7	156
Total Period	1.40	237	13.15	227	6.56	2.45	517.5	209.5	1873



Start: 21-JUN-1993

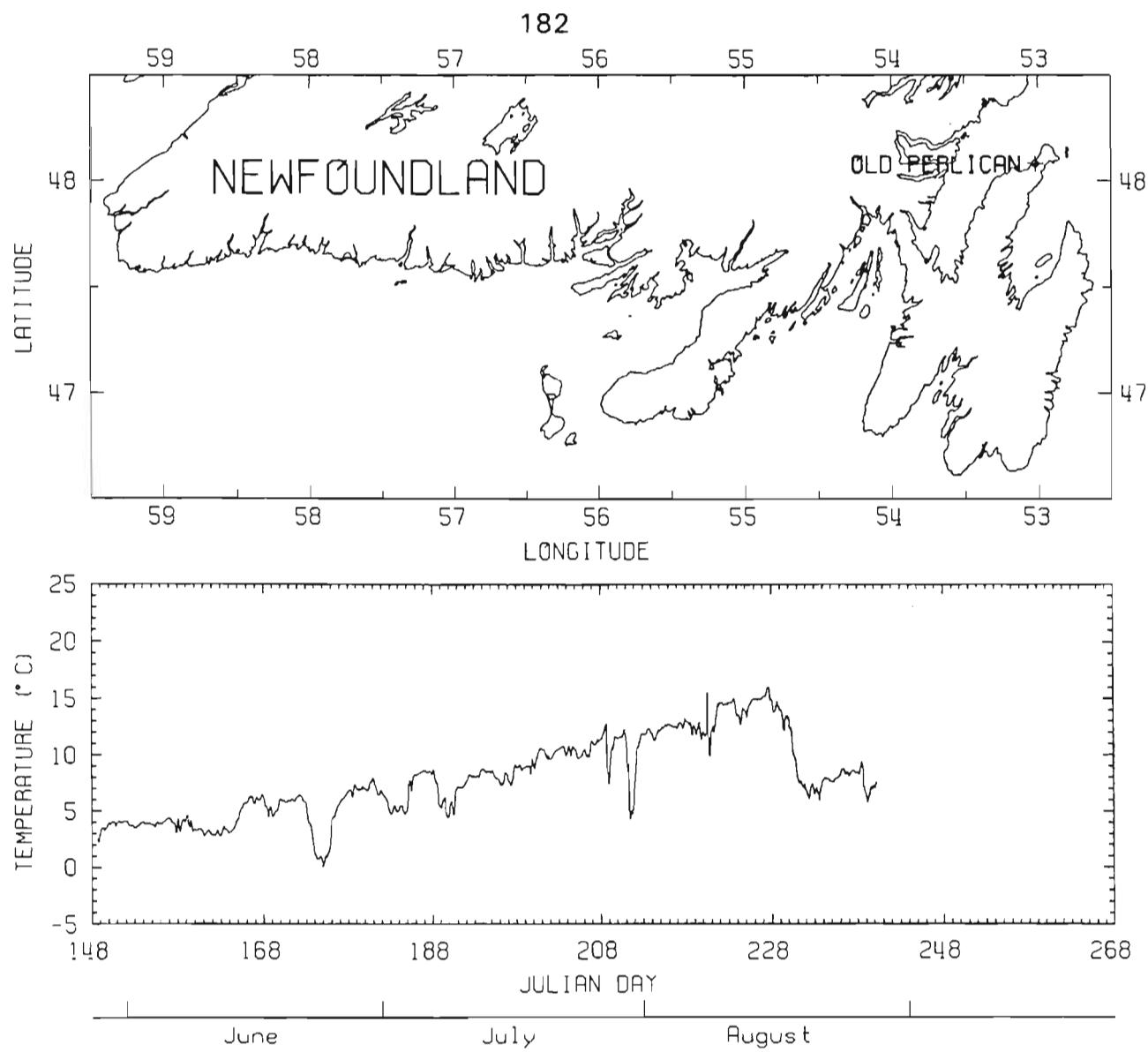
End: 7-SEP-1993

THERMOGRAPH DATA SUMMARY

STATION NAME: OLD PERLICAN
STATION NUMBER: 103
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 63328
LATITUDE: 48.08° N
LONGITUDE: 53.02° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 15 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 28-MAY-1990 18:00 GMT
RECOVERY DATE/TIME: 28-AUG-1990 05:43 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-1990	2.25	148	4.11	151	3.67	0.51	13.8	0.0	39
JUN-1990	0.02	174	7.97	180	4.58	1.69	137.8	29.1	366
JUL-1990	4.26	211	12.77	208	8.55	2.04	265.1	141.1	403
AUG-1990	5.71	239	16.03	227	11.27	2.88	312.9	200.9	353
Total Period	0.02	174	16.03	227	7.96	3.54	729.5	371.1	1161



Start: 28-MAY-1990

End: 28-AUG-1990

Appendix 8. Time Series Plots and Monthly Statistics
from Unit Area 3Lf.



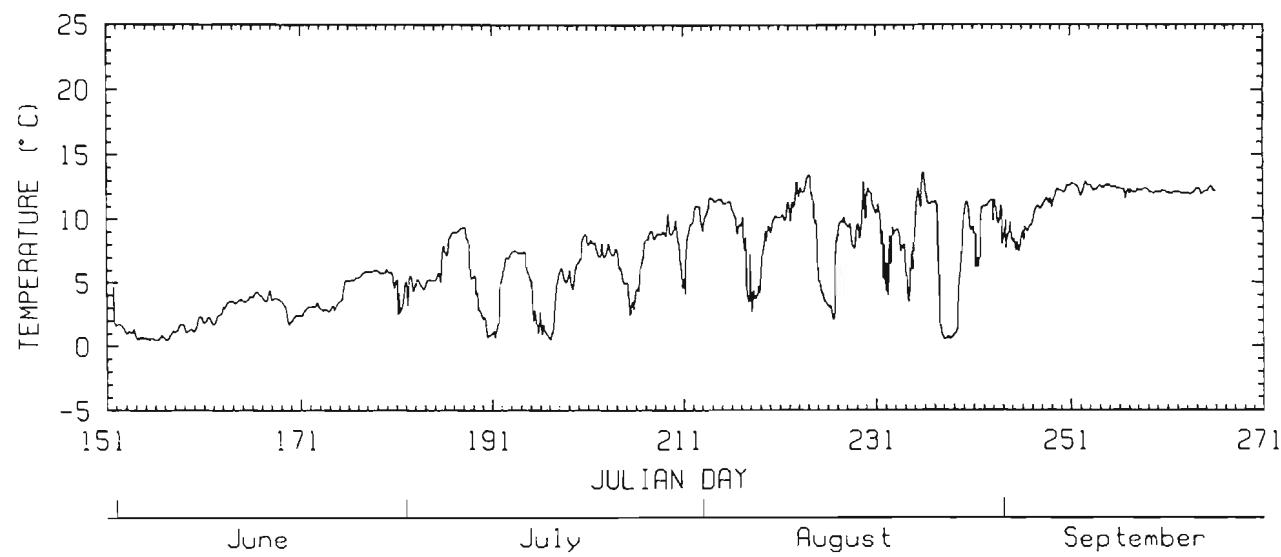
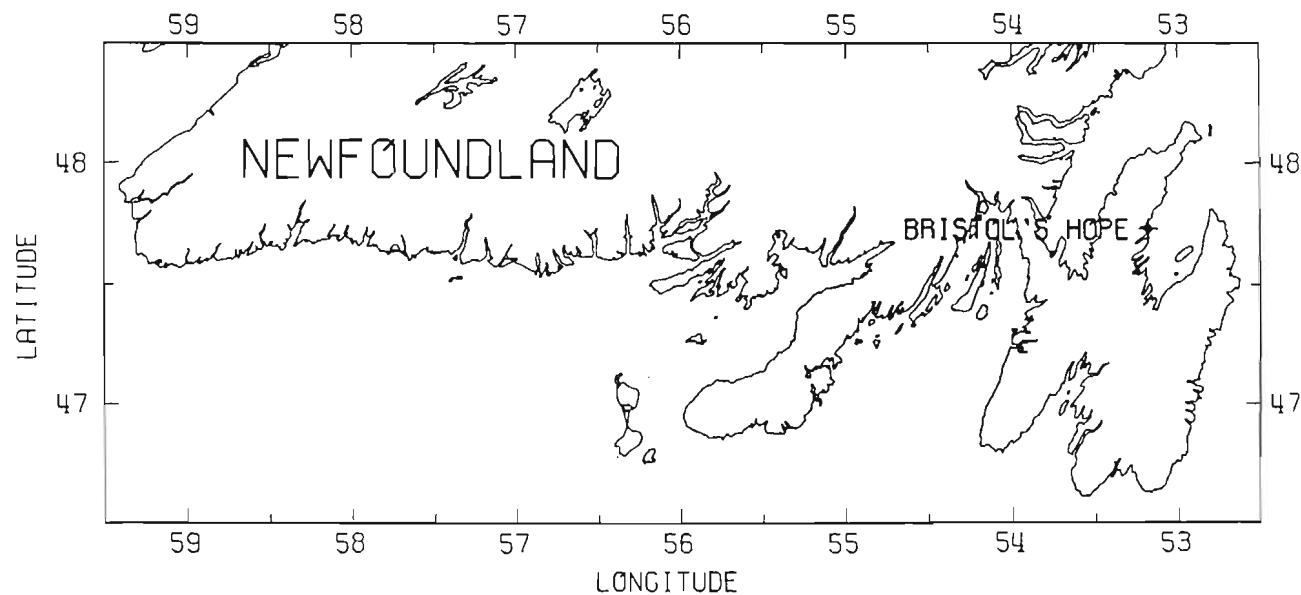
THERMOGRAPH DATA SUMMARY

STATION NAME: BRISTOL'S HOPE
STATION NUMBER: 101
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 63800
LATITUDE: 47.73° N
LONGITUDE: 53.18° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 16 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 31-MAY-1990 18:05 GMT
RECOVERY DATE/TIME: 23-SEP-1990 02:47 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-1990	1.65	151	4.67	151	2.60	1.09	2.6	0.0	5
JUN-1990	0.46	155	6.13	179	3.03	1.63	89.3	8.6	358
JUL-1990	0.49	197	11.05	212	6.28	2.42	191.1	76.6	375
AUG-1990	0.52	238	13.64	235	8.61	3.13	268.7	148.1	409
SEP-1990	7.41	245	12.98	252	11.54	1.40	268.8	176.8	279
Total Period	0.46	155	13.64	235	7.15	3.79	820.5	410.2	1426

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Start: 31-MAY-1990

End: 23-SEP-1990

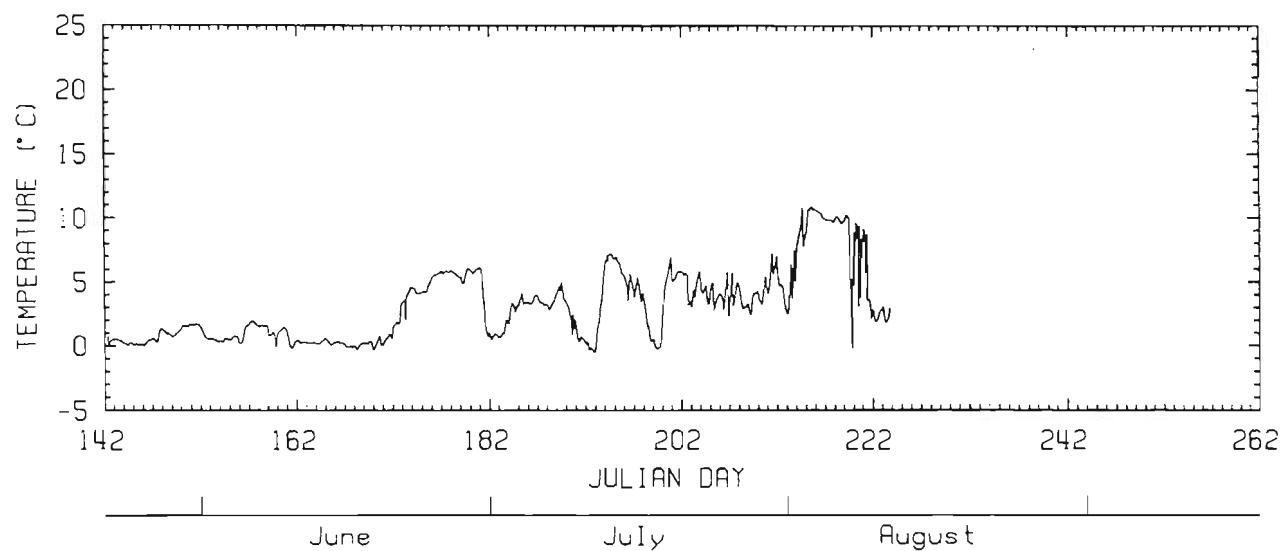
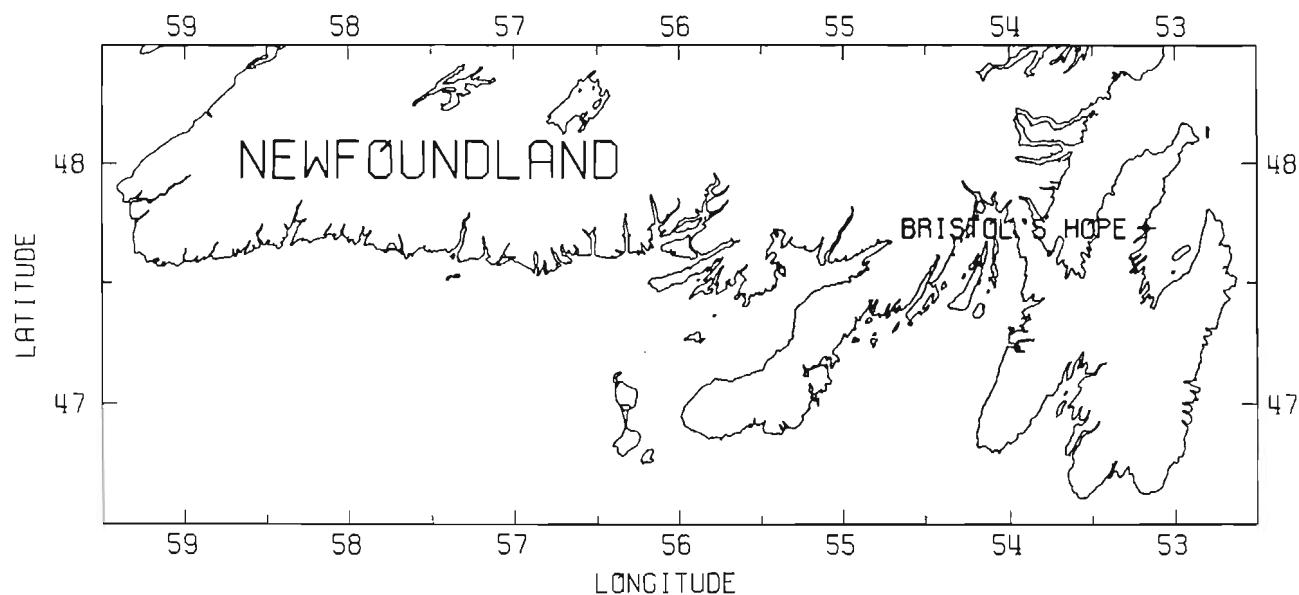
THERMOGRAPH DATA SUMMARY

STATION NAME: BRISTOL'S HOPE
STATION NUMBER: 101
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 62900
LATITUDE: 47.73° N
LONGITUDE: 53.18° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 16 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 22-MAY-1991 08:34 GMT
RECOVERY DATE/TIME: 11-AUG-1991 18:54 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1991	-0.02	145	1.74	151	0.76	0.57	7.4	0.0	58
JUN-1991	-0.35	169	6.18	181	1.90	2.13	56.9	8.9	181
JUL-1991	-0.53	192	7.25	211	3.57	1.91	109.9	13.5	191
AUG-1991	-0.22	219	10.88	215	7.14	3.29	78.9	38.2	74
Total Period	-0.53	192	10.88	215	3.17	2.87	253.2	60.6	504

188



Start: 22-MAY-1991

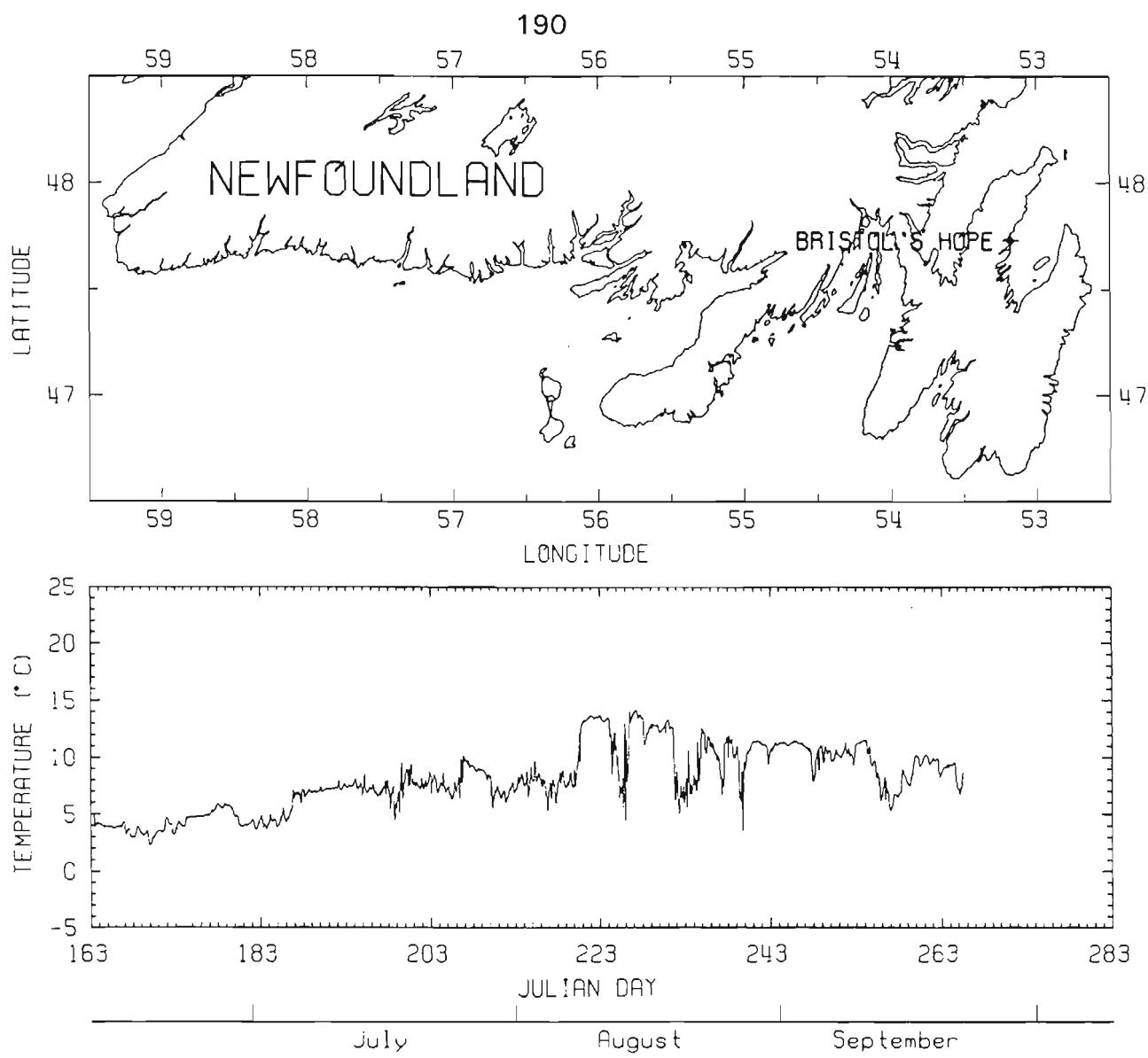
End: 11-AUG-1991

THERMOGRAPH DATA SUMMARY

STATION NAME: BRISTOL'S HOPE
STATION NUMBER: 101
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 6742
LATITUDE: 47.73° N
LONGITUDE: 53.18° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 16 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 12-JUN-1993 09:00 GMT
RECOVERY DATE/TIME: 22-SEP-1993 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1993	2.30	169	6.00	178	4.20	0.81	79.8	7.4	447
JUL-1993	3.60	183	10.35	206	7.00	1.39	216.9	92.9	744
AUG-1993	3.55	239	14.20	227	10.18	2.43	315.5	191.5	744
SEP-1993	5.30	257	11.60	254	9.57	1.53	209.5	121.5	517
Total Period	2.30	169	14.20	227	7.99	2.81	821.7	413.3	2452



Start: 12-JUN-1993

End: 22-SEP-1993

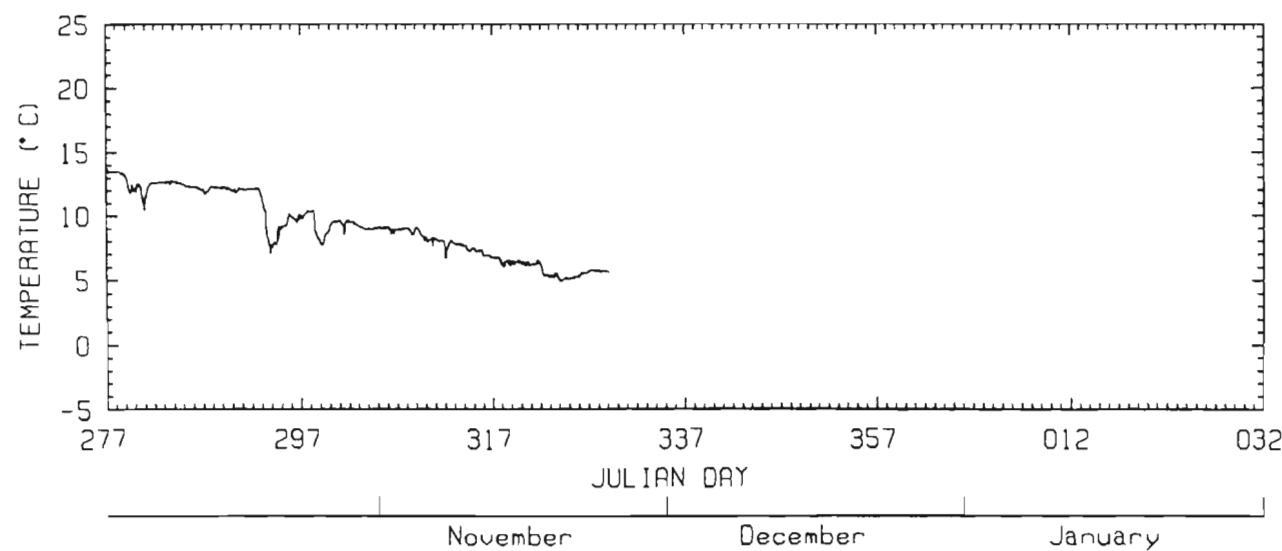
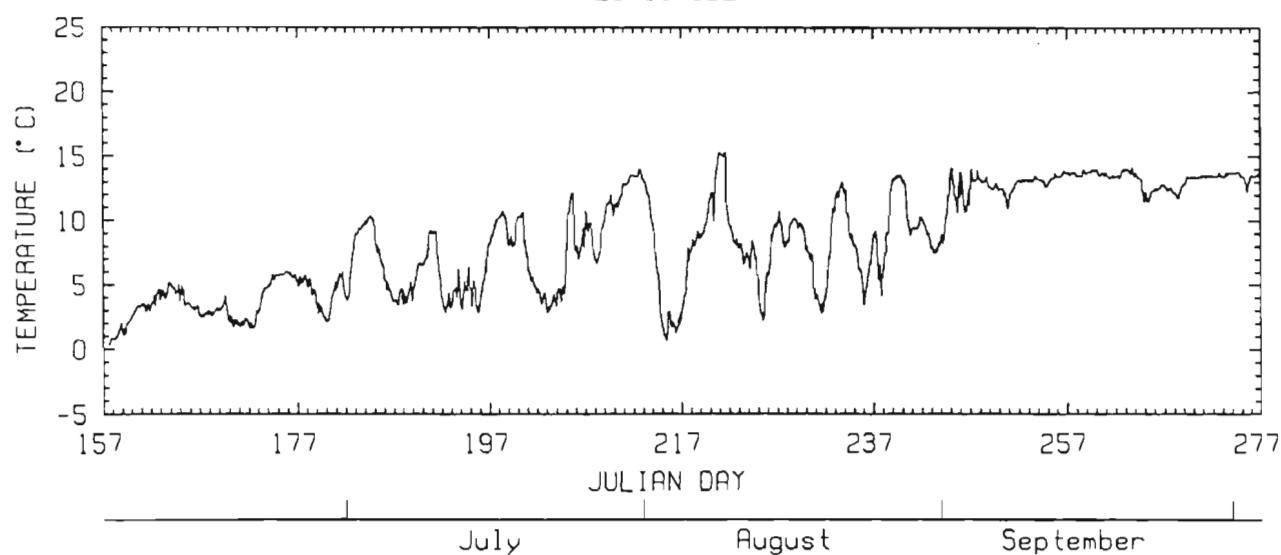
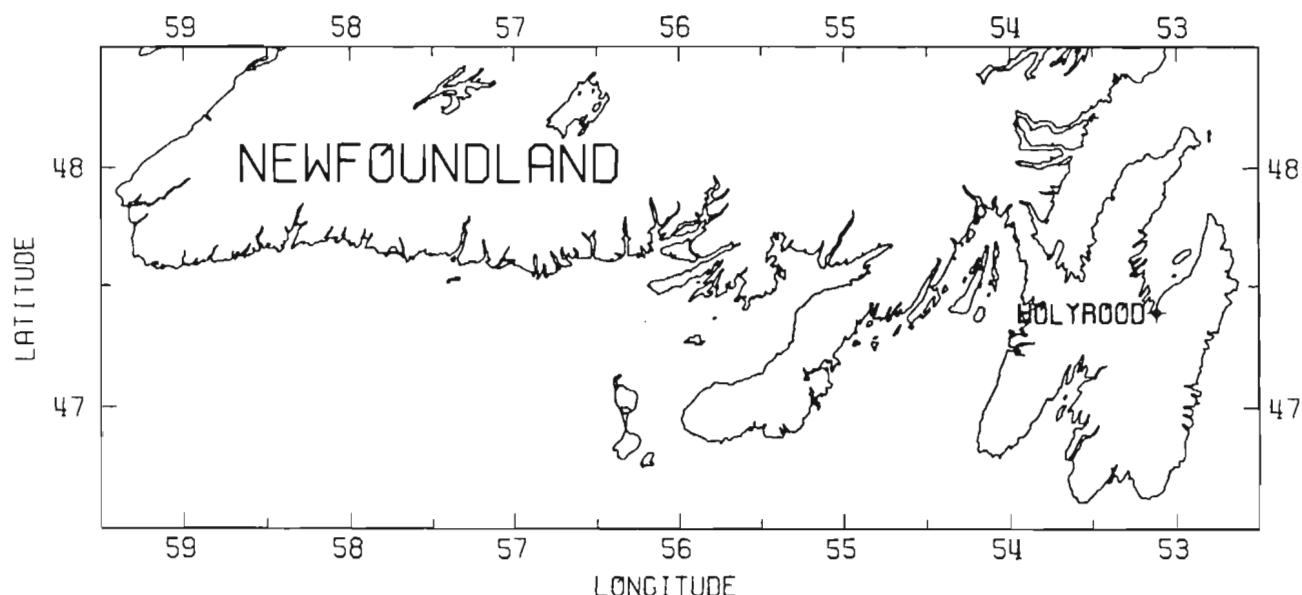
THERMOGRAPH DATA SUMMARY

STATION NAME: HOLYROOD
STATION NUMBER: 145
INSTRUMENT TYPE: Seamon UTR-A (Hugrun)
INSTRUMENT S/N: 3214
LATITUDE: 47.39° N
LONGITUDE: 53.12° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 10 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 6-JUN-1990 14:00 GMT
RECOVERY DATE/TIME: 25-NOV-1990 02:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1990	0.30	157	6.00	175	3.58	1.41	87.8	9.5	586
JUL-1990	2.80	192	14.00	212	7.38	3.02	228.9	106.0	744
AUG-1990	0.60	215	15.30	221	8.23	3.25	255.1	136.2	744
SEP-1990	8.20	244	14.20	263	12.97	0.89	389.2	269.2	720
OCT-1990	7.00	293	13.80	274	11.25	1.78	348.8	224.8	744
NOV-1990	4.90	324	9.10	305	6.94	1.31	172.3	72.3	579
Total Period	0.30	157	15.30	221	8.61	3.70	1482.1	818.1	4117

192



Start: 6-JUN-1990

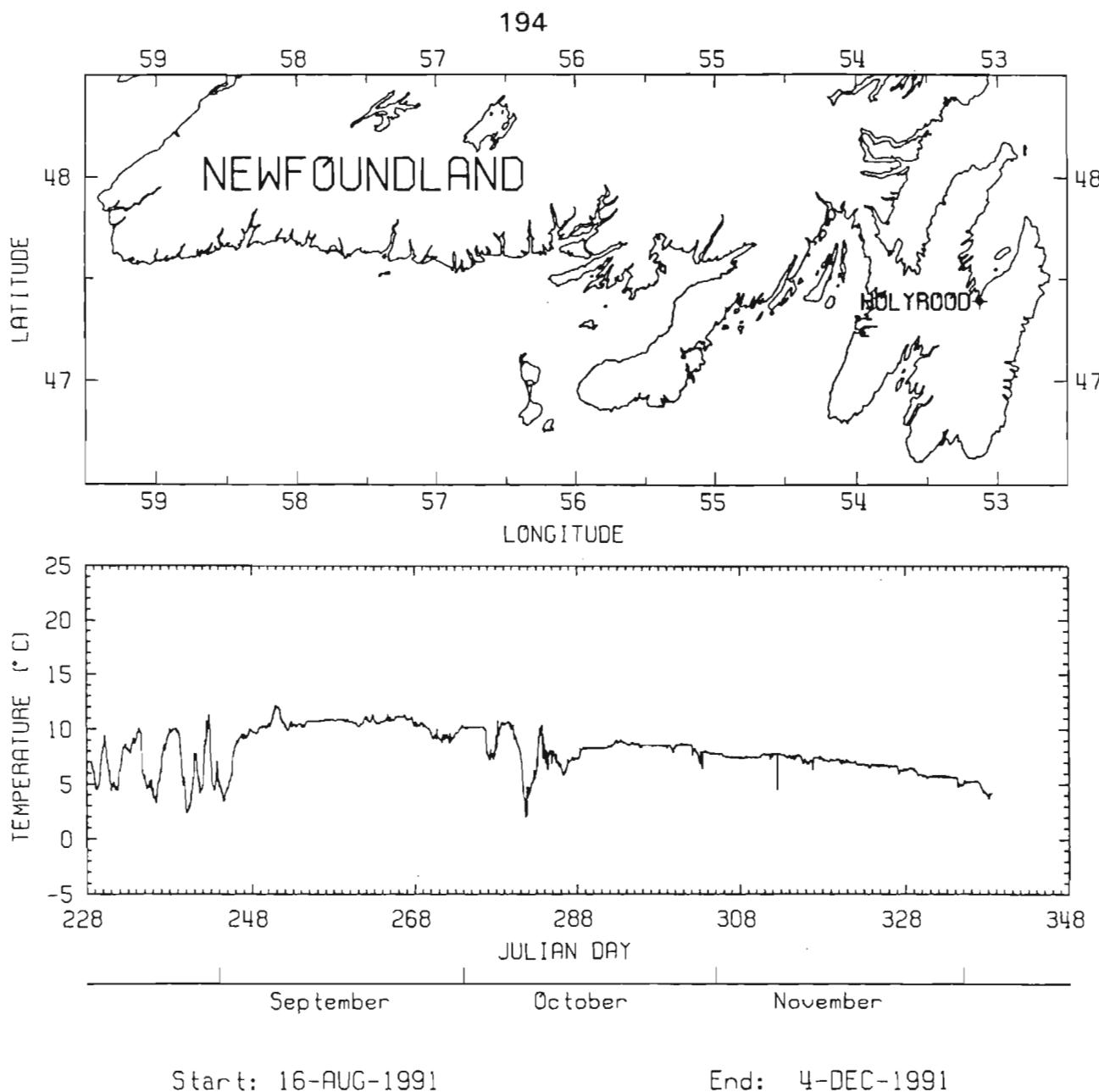
End: 25-NOV-1990

THERMOGRAPH DATA SUMMARY

STATION NAME: HOLYROOD
STATION NUMBER: 145
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5457
LATITUDE: 47.39° N
LONGITUDE: 53.13° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 11 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 16-AUG-1991 14:00 GMT
RECOVERY DATE/TIME: 4-DEC-1991 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
AUG-1991	2.30	240	11.30	242	6.71	2.15	107.0	43.4	370
SEP-1991	3.40	244	12.10	250	10.04	1.48	301.2	181.2	720
OCT-1991	2.00	281	10.80	278	8.26	1.38	256.2	132.2	744
NOV-1991	4.50	312	7.80	305	6.88	0.73	206.5	86.5	720
DEC-1991	3.70	338	5.40	335	4.82	0.53	18.9	3.0	86
Total Period	2.00	281	12.10	250	8.04	2.00	889.9	446.3	2640



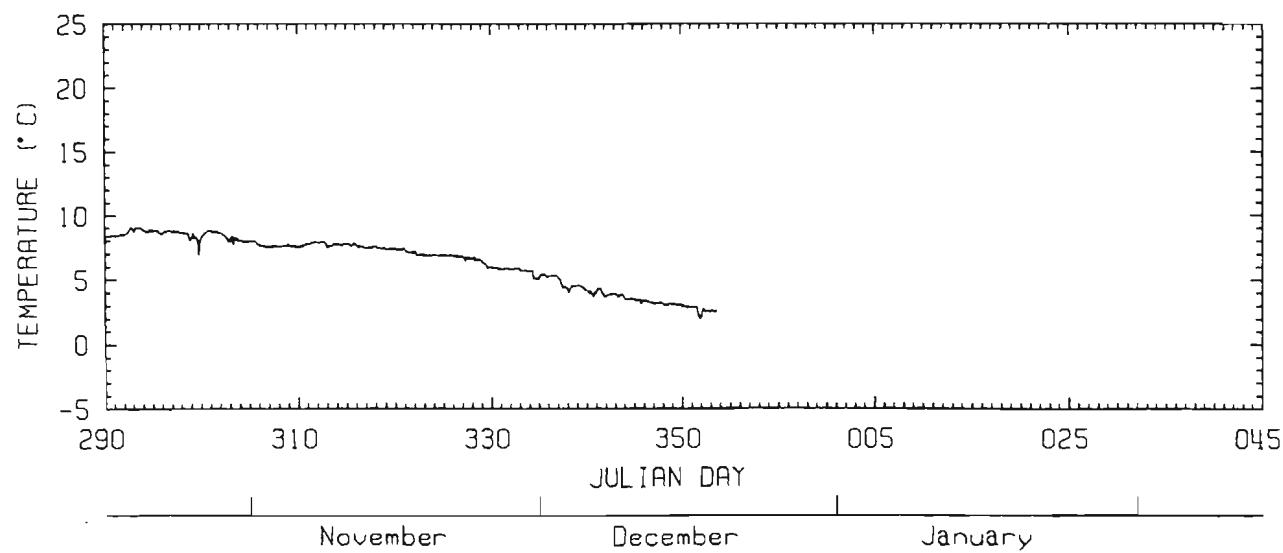
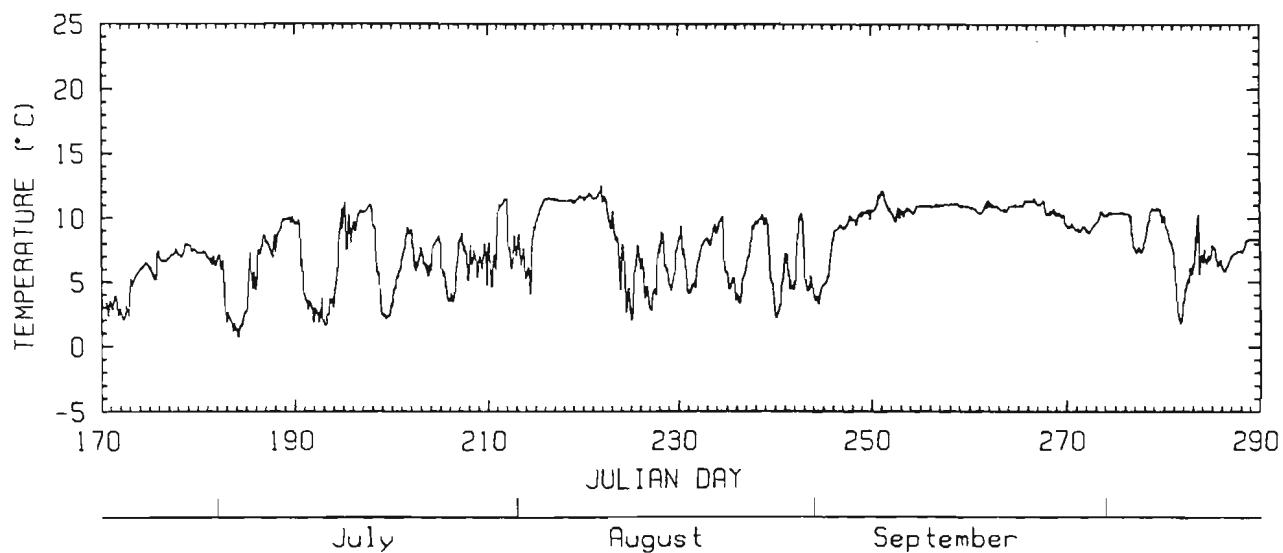
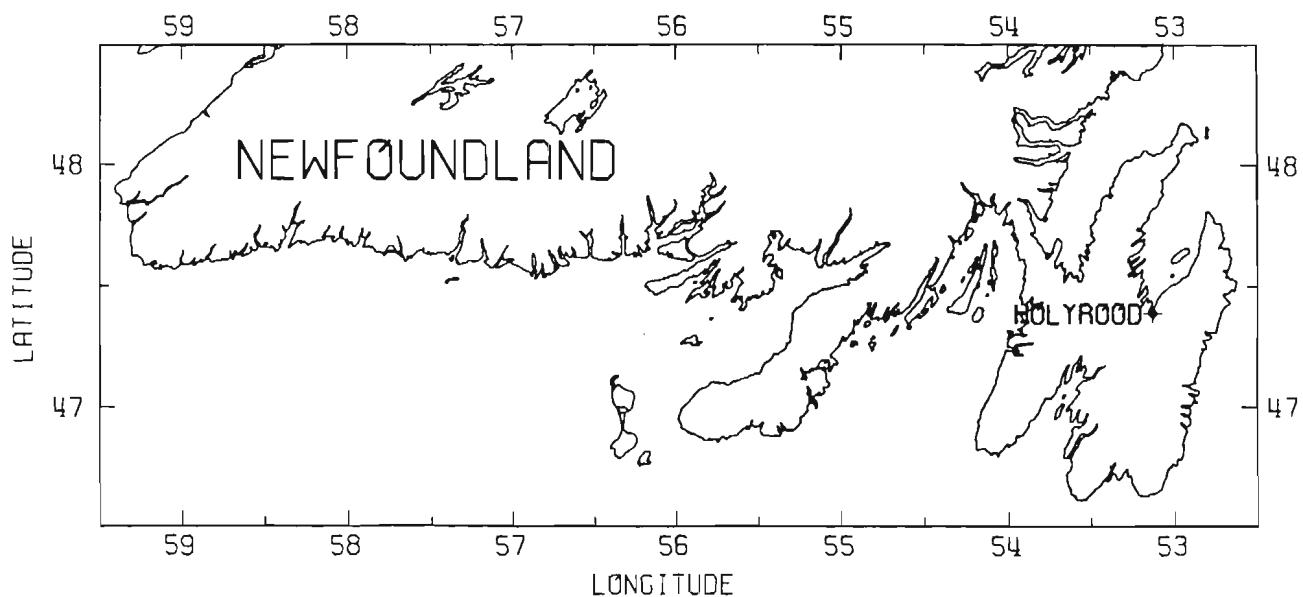
THERMOGRAPH DATA SUMMARY

STATION NAME: HOLYROOD
STATION NUMBER: 145
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3266
LATITUDE: 47.39° N
LONGITUDE: 53.13° W
INSTRUMENT DEPTH: 11 m
WATER DEPTH: 11 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 19-JUN-1991 12:00 GMT
RECOVERY DATE/TIME: 19-DEC-1991 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1991	2.00	172	8.00	178	5.89	1.73	69.2	24.4	276
JUL-1991	0.70	184	11.55	211	6.49	2.78	201.3	87.1	744
AUG-1991	2.05	225	12.60	221	7.71	2.82	239.0	115.4	744
SEP-1991	3.25	244	12.15	251	10.08	1.58	302.5	182.6	720
OCT-1991	1.70	281	10.80	278	8.19	1.53	254.0	130.3	744
NOV-1991	5.00	334	8.00	305	7.02	0.72	210.7	90.7	720
DEC-1991	1.95	351	5.45	335	3.68	0.84	69.5	4.1	448
Total Period	0.70	184	12.60	221	7.34	2.61	1346.3	634.6	4396

196



Start: 19-JUN-1991

End: 19-DEC-1991

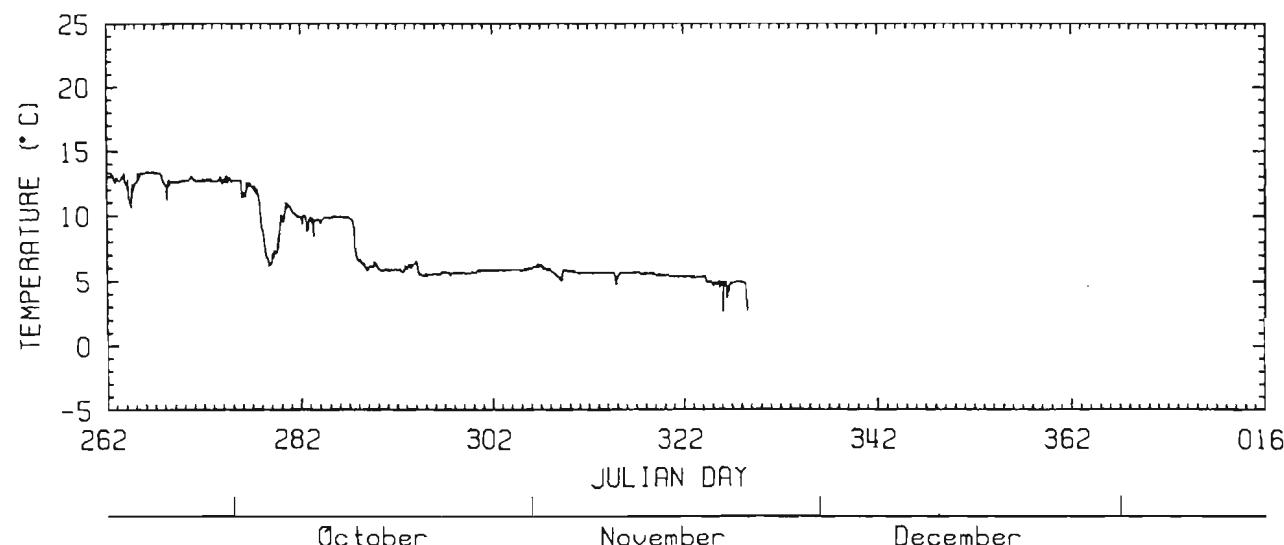
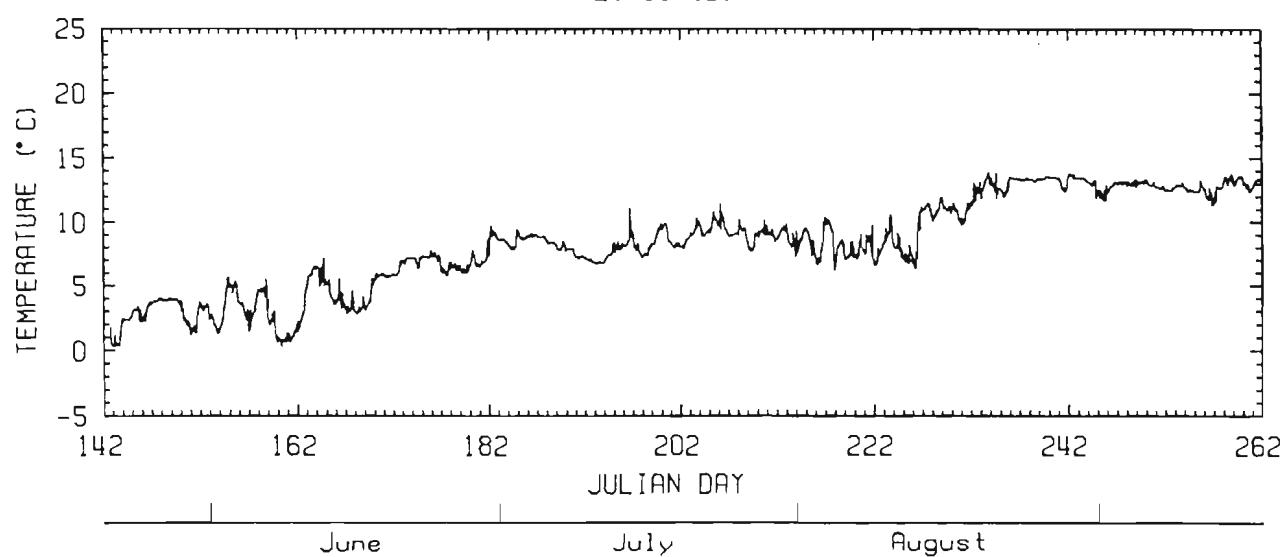
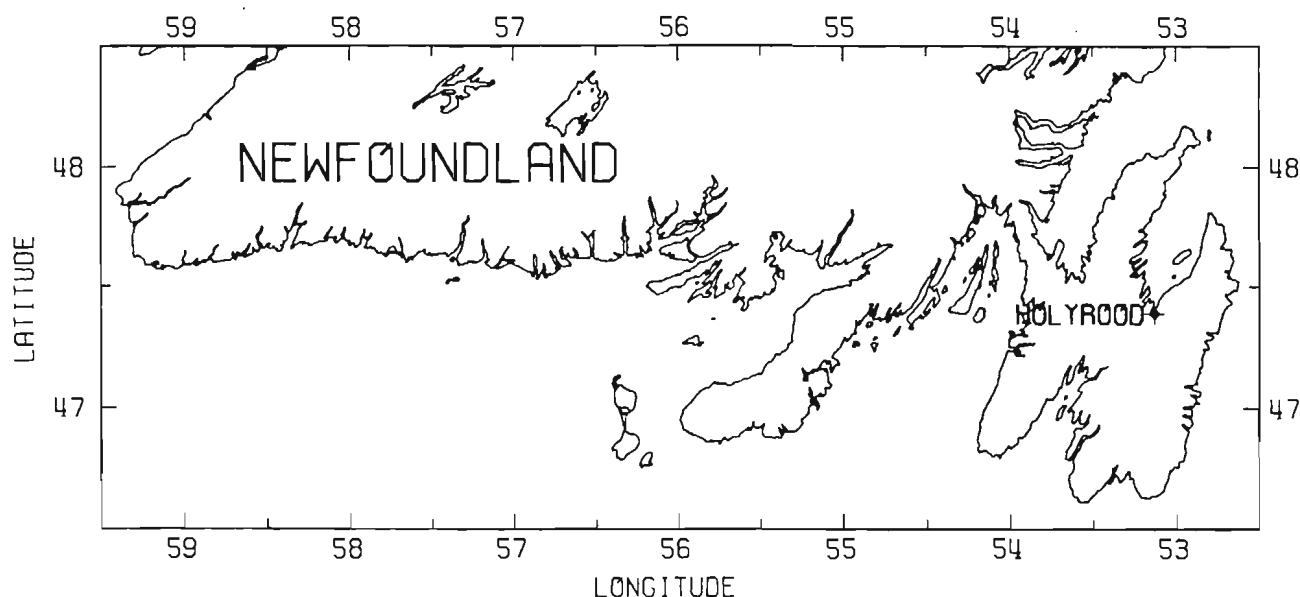
THERMOGRAPH DATA SUMMARY

STATION NAME: HOLYROOD
STATION NUMBER: 145
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5472
LATITUDE: 47.39° N
LONGITUDE: 53.13° W
INSTRUMENT DEPTH: 13 m
WATER DEPTH: 13 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 21-MAY-1992 18:00 GMT
RECOVERY DATE/TIME: 23-NOV-1992 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-1992	0.30	143	4.05	147	2.79	1.06	29.1	0.0	246
JUN-1992	0.25	160	9.70	182	4.88	2.13	146.3	41.7	720
JUL-1992	6.70	193	11.45	206	8.49	0.86	263.1	139.1	744
AUG-1992	6.25	218	13.90	233	10.67	2.40	330.7	206.7	744
SEP-1992	10.55	264	13.80	258	12.76	0.45	382.9	262.9	720
OCT-1992	5.25	294	12.70	275	7.50	2.28	232.4	108.4	744
NOV-1992	2.55	326	6.25	306	5.38	0.47	123.5	31.5	545
Total Period	0.25	160	13.90	233	8.10	3.41	1508.1	790.4	4463

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Start: 21-MAY-1992

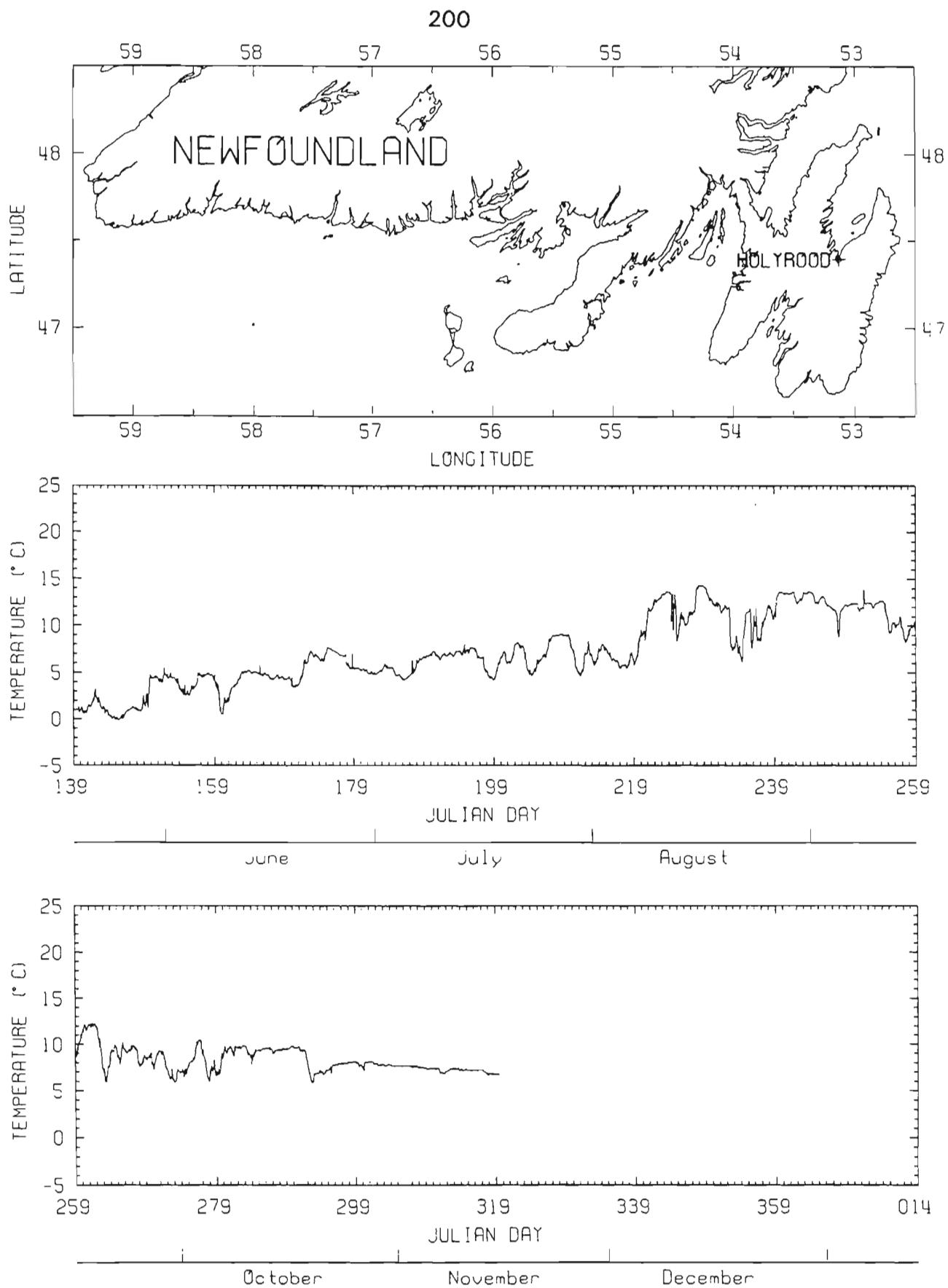
End: 23-NOV-1992

THERMOGRAPH DATA SUMMARY

STATION NAME: HOLYROOD
STATION NUMBER: 145
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 7927
LATITUDE: 47.39° N
LONGITUDE: 53.13° W
INSTRUMENT DEPTH: 13 m
WATER DEPTH: 13 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 19-MAY-1993 17:00 GMT
RECOVERY DATE/TIME: 15-NOV-1993 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1993	-0.15	145	5.50	151	1.64	1.44	20.8	0.7	295
JUN-1993	0.50	160	7.65	175	4.80	1.41	144.0	30.8	720
JUL-1993	4.20	186	9.15	208	6.48	1.28	200.9	76.9	744
AUG-1993	5.45	217	14.35	228	10.48	2.71	324.8	200.8	744
SEP-1993	5.85	273	13.85	251	10.25	2.00	307.5	187.5	720
OCT-1993	5.75	292	10.45	276	8.33	1.06	258.1	134.1	744
NOV-1993	6.60	318	7.65	305	7.23	0.28	108.2	48.2	350
Total Period	-0.15	145	14.35	228	7.57	3.09	1364.2	679.0	4317



Start: 19-MAY-1993

End: 15-NOV-1993

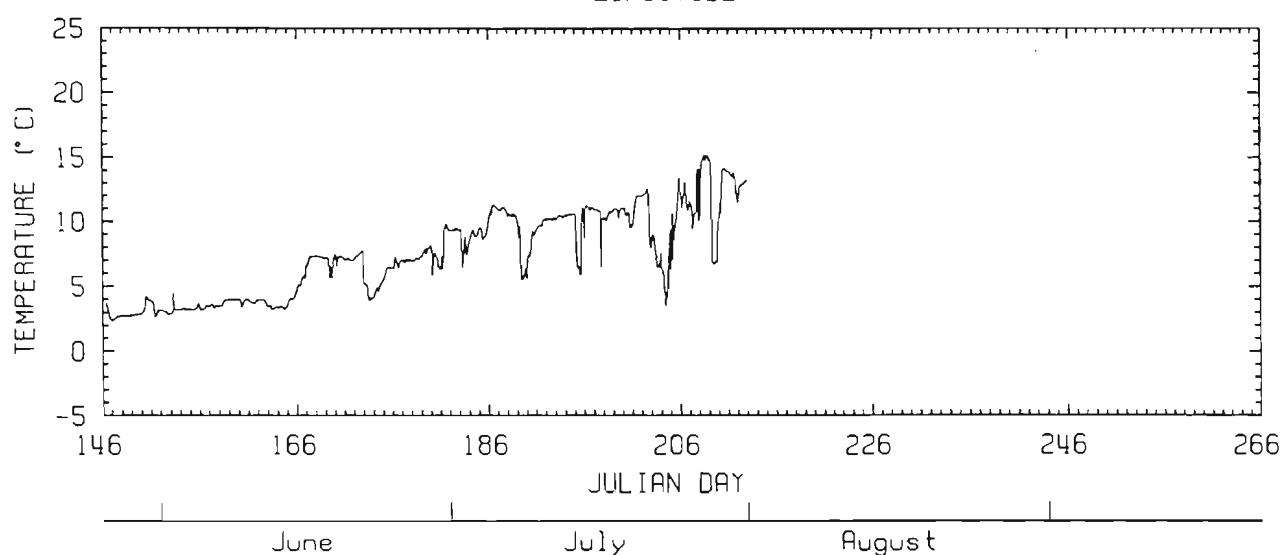
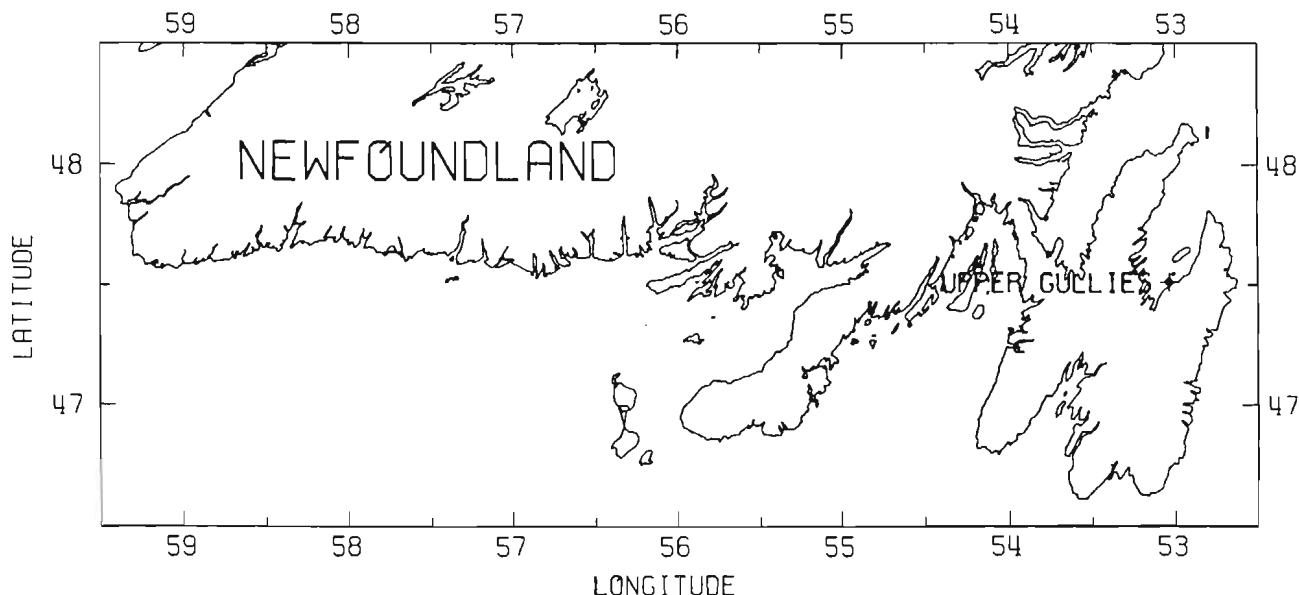
THERMOGRAPH DATA SUMMARY

STATION NAME: UPPER GULLIES
STATION NUMBER: 106
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 62448
LATITUDE: 47.51° N
LONGITUDE: 53.04° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 20 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 26-MAY-1990 09:30 GMT
RECOVERY DATE/TIME: 31-JUL-1990 23:17 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1990	2.39	146	4.22	150	3.10	0.52	18.1	0.0	50
JUN-1990	2.83	152	9.87	181	5.48	1.78	156.2	42.6	276
JUL-1990	3.45	204	15.21	208	9.91	2.22	315.0	191.0	467
Total Period	2.39	146	15.21	208	7.94	3.15	489.3	233.5	793

202



Start: 26-MAY-1990

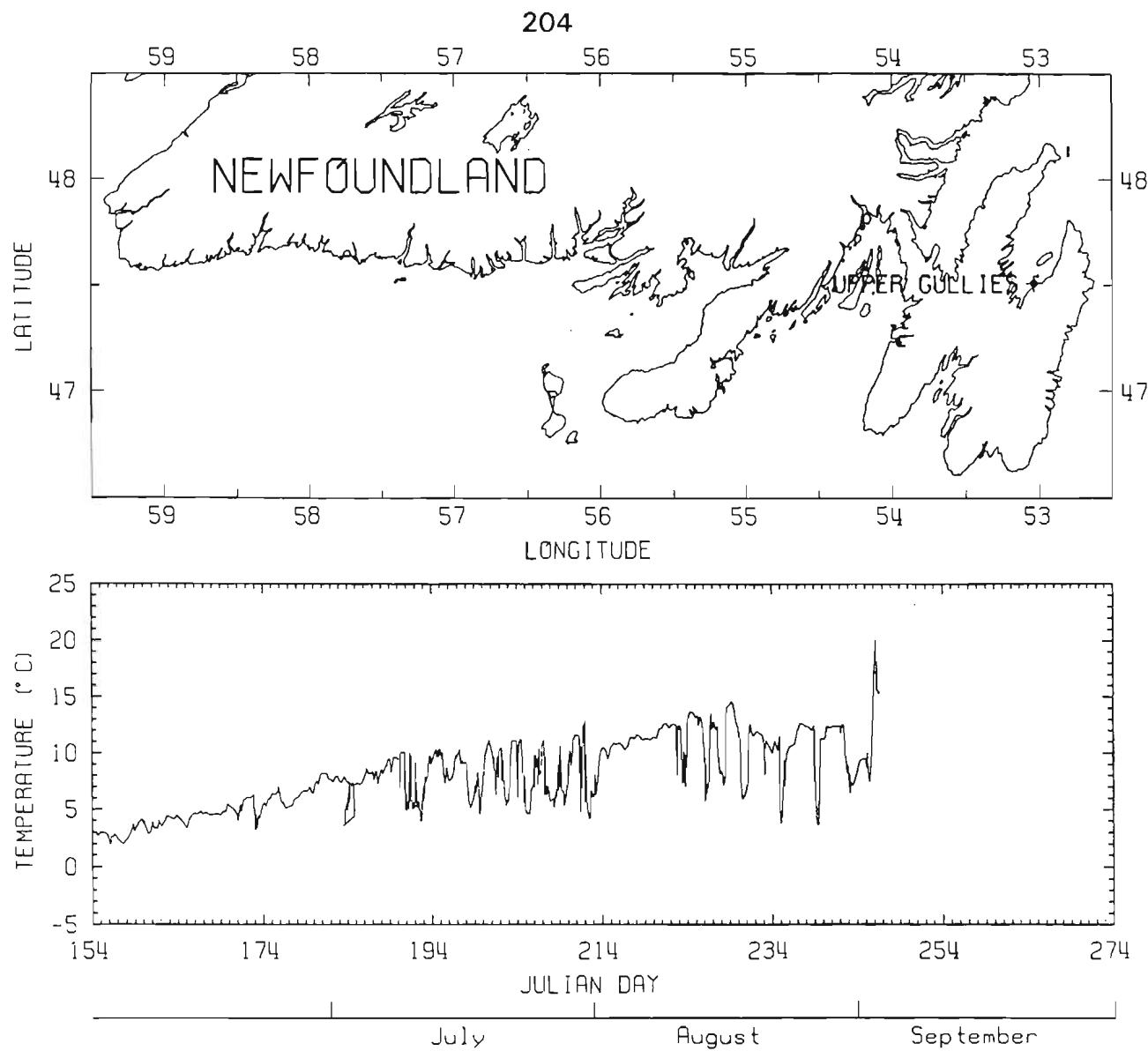
End: 31-JUL-1990

THERMOGRAPH DATA SUMMARY

STATION NAME: UPPER GULLIES
STATION NUMBER: 106
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 63282
LATITUDE: 47.51° N
LONGITUDE: 53.04° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 20 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 3-JUN-1991 11:30 GMT
RECOVERY DATE/TIME: 3-SEP-1991 16:32 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1991	1.92	156	8.19	181	4.62	1.54	131.2	27.4	123
JUL-1991	3.57	183	12.90	212	7.89	1.91	258.8	126.8	262
AUG-1991	3.60	239	14.62	229	10.28	2.34	329.8	205.8	178
SEP-1991	7.42	245	20.14	246	12.33	3.93	35.5	23.5	15
Total Period	1.92	156	20.14	246	8.04	2.96	755.3	383.5	578



Start: 3-JUN-1991

End: 3-SEP-1991

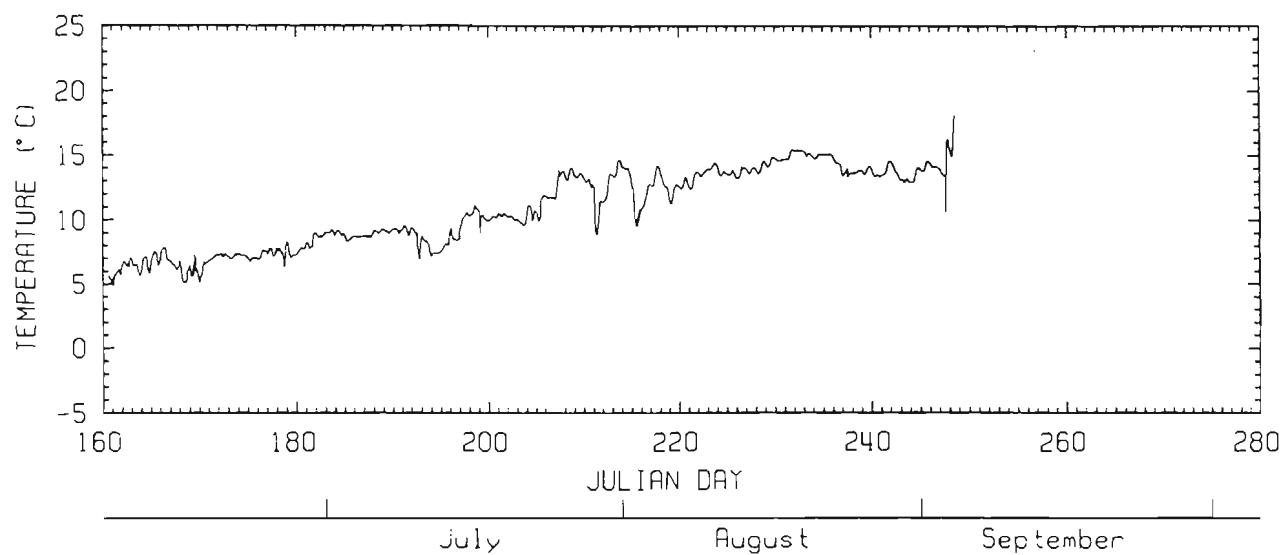
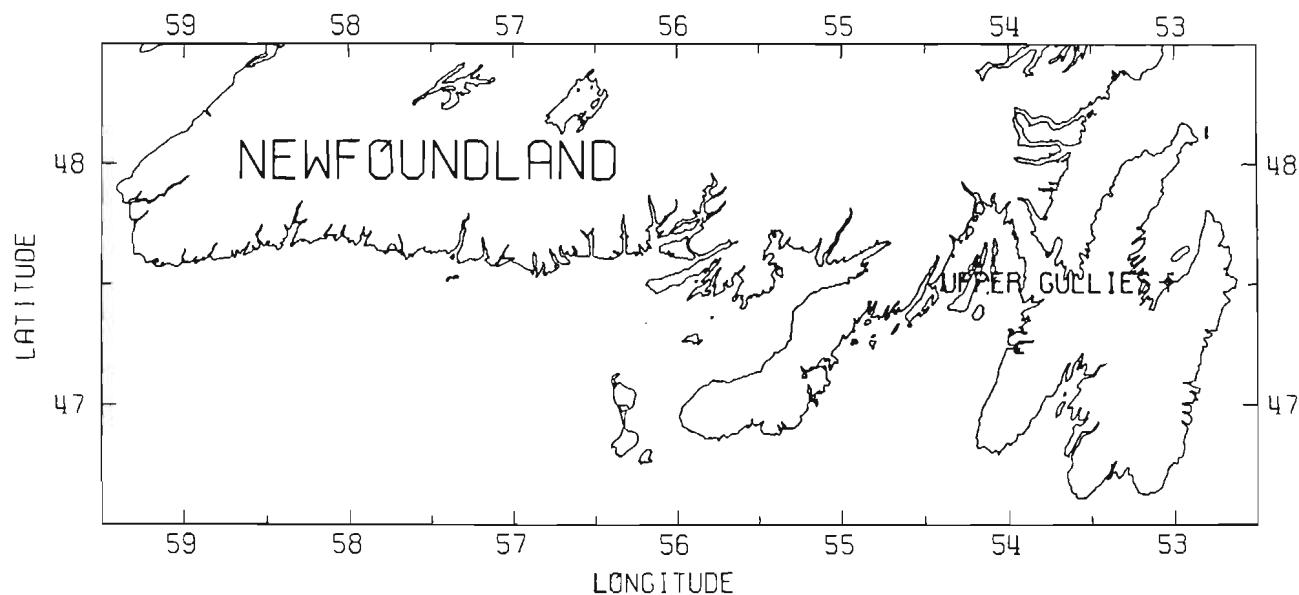
THERMOGRAPH DATA SUMMARY

STATION NAME: UPPER GULLIES
STATION NUMBER: 106
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 62545
LATITUDE: 47.51° N
LONGITUDE: 53.04° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 20 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 8-JUN-1992 14:28 GMT
RECOVERY DATE/TIME: 4-SEP-1992 14:36 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-1992	4.80	161	9.05	182	6.96	0.86	159.5	67.5	277
JUL-1992	6.92	192	14.65	213	10.20	1.80	316.6	192.6	388
AUG-1992	9.49	215	15.43	231	13.67	1.11	424.9	300.9	380
SEP-1992	10.59	247	18.12	248	14.37	1.35	58.2	42.2	52
Total Period	4.80	161	18.12	248	10.78	3.03	959.1	603.1	1097

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Start: 8-JUN-1992

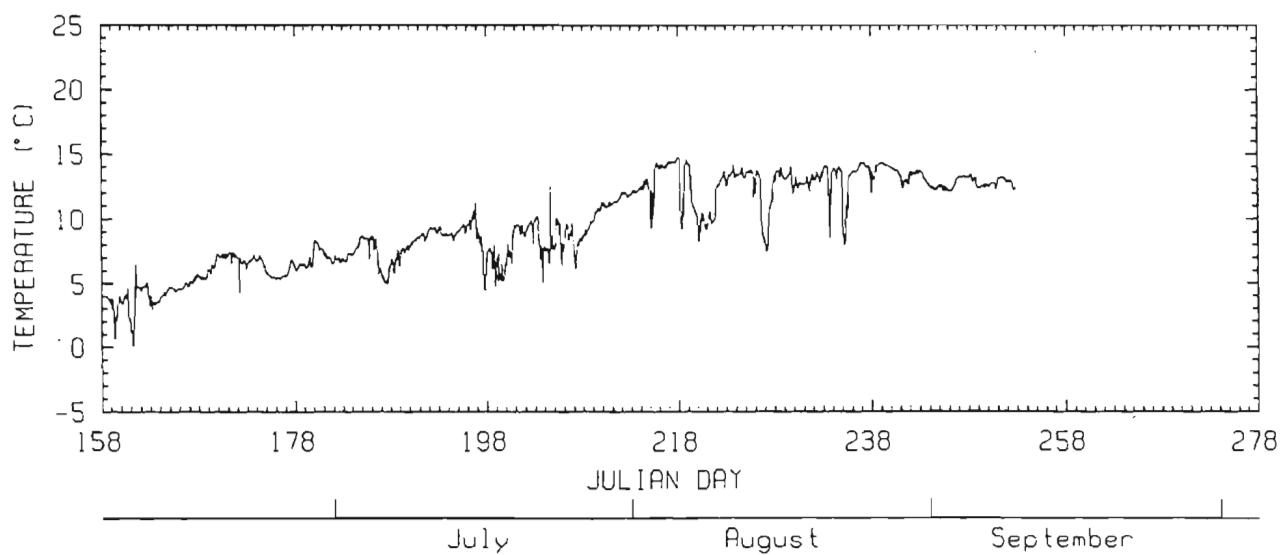
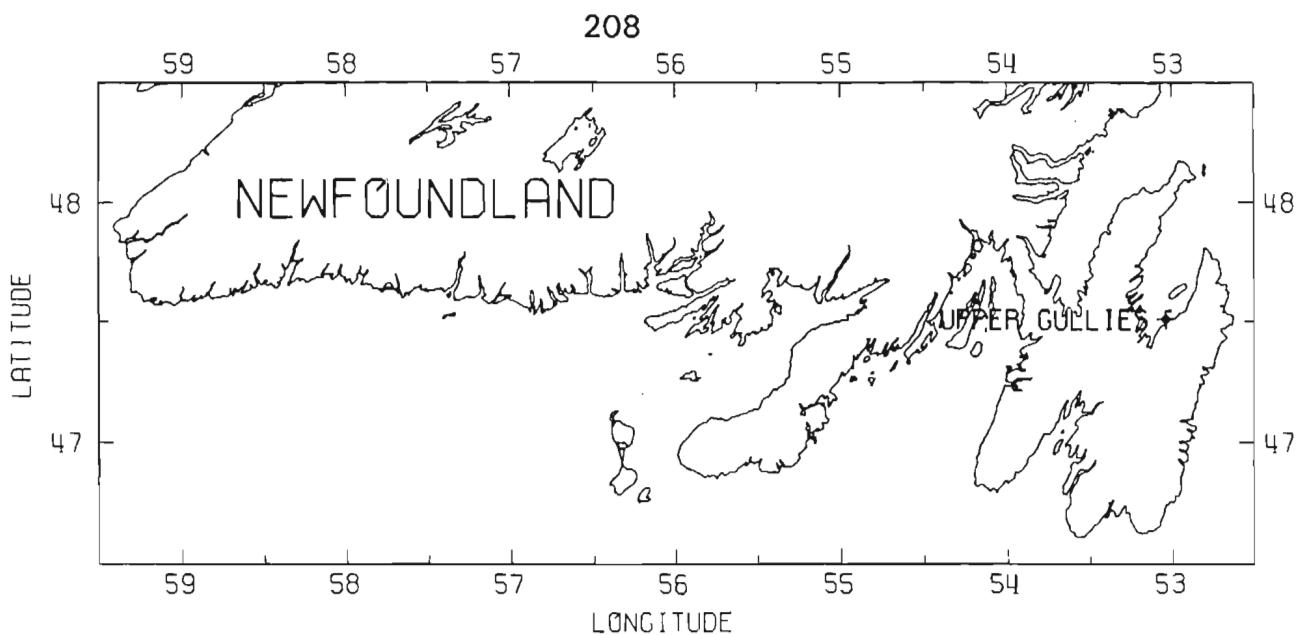
End: 4-SEP-1992

THERMOGRAPH DATA SUMMARY

STATION NAME: UPPER GULLIES
STATION NUMBER: 106
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 7872
LATITUDE: 47.51° N
LONGITUDE: 53.04° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 20 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 7-JUN-1993 14:00 GMT
RECOVERY DATE/TIME: 9-SEP-1993 21:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-1993	-0.05	161	8.35	180	5.52	1.53	131.4	38.7	562
JUL-1993	4.35	197	12.60	204	8.44	1.65	261.7	137.7	744
AUG-1993	7.40	227	14.80	218	12.77	1.55	396.0	272.0	744
SEP-1993	12.05	245	13.45	248	12.70	0.37	114.3	78.3	214
Total Period	-0.05	161	14.80	218	9.54	3.33	903.4	526.8	2264



Start: 7-JUN-1993

End: 9-SEP-1993

Appendix 9. Time Series Plots and Monthly Statistics
from Unit Area 3Lq.



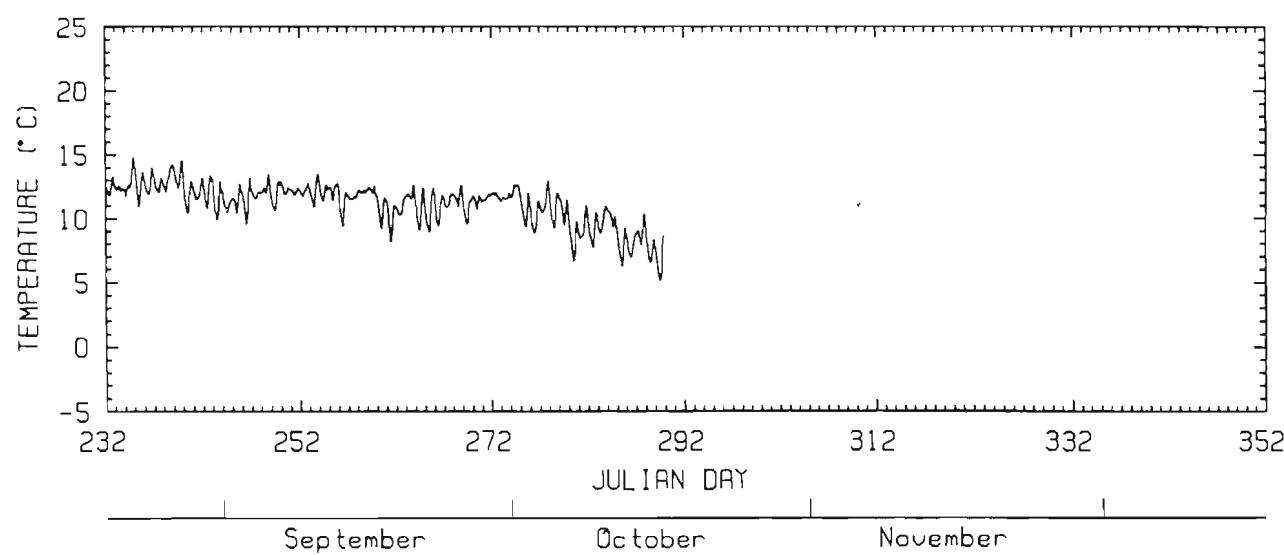
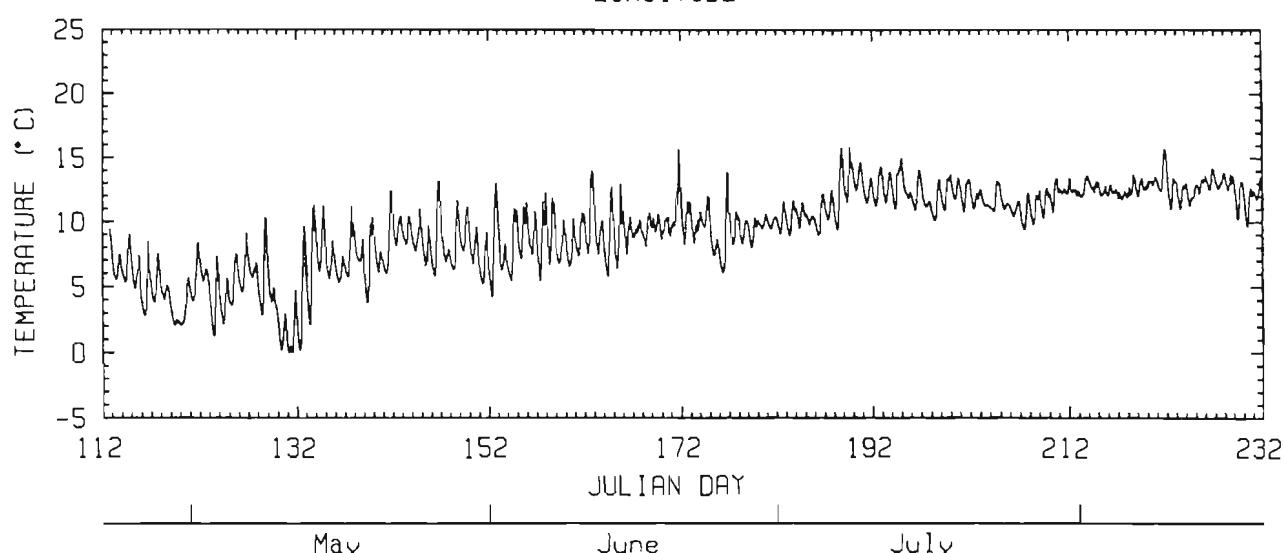
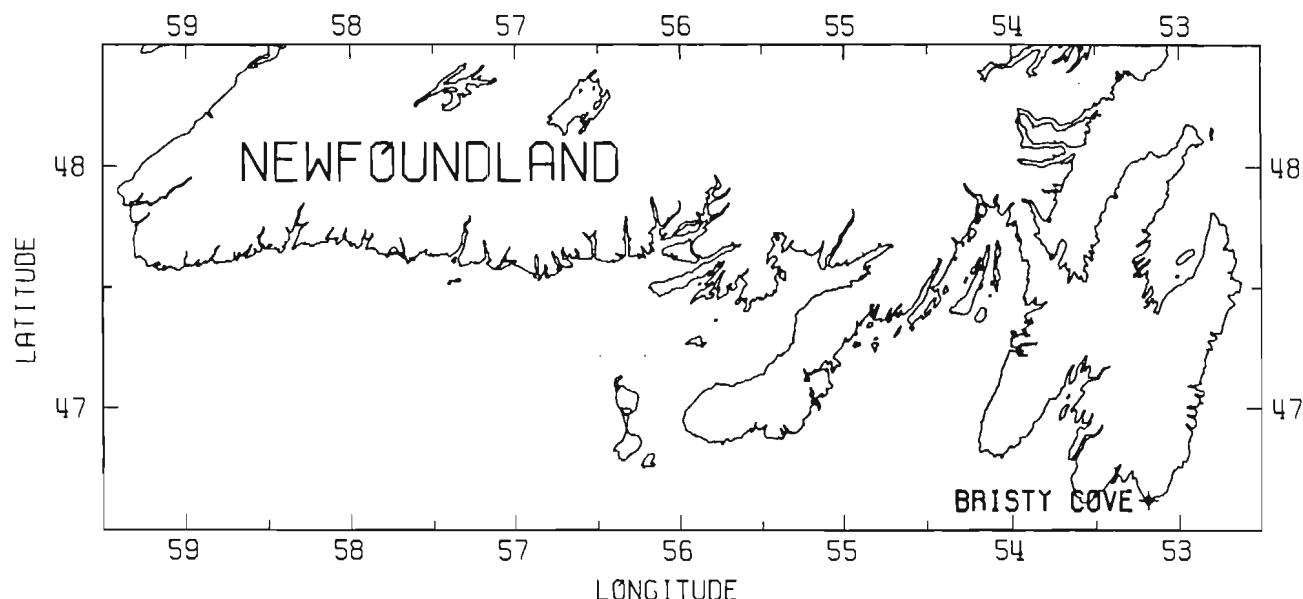
THERMOGRAPH DATA SUMMARY

STATION NAME: BRISTY COVE
STATION NUMBER: 182
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5459
LATITUDE: 46.62° N
LONGITUDE: 53.19° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 22-APR-1993 19:00 GMT
RECOVERY DATE/TIME: 16-OCT-1993 21:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
APR-1993	2.10	119	9.40	112	5.06	1.86	48.4	14.5	197
MAY-1993	0.00	131	13.20	146	6.57	2.68	203.6	85.1	744
JUN-1993	4.20	152	15.70	171	9.21	1.75	276.4	156.4	720
JUL-1993	8.90	183	15.90	189	11.77	1.31	365.0	241.0	744
AUG-1993	9.60	230	15.70	221	12.54	0.87	388.7	264.7	744
SEP-1993	8.10	261	13.50	253	11.49	0.90	344.8	224.8	720
OCT-1993	5.10	289	12.90	277	9.40	1.72	150.2	86.2	382
Total Period	0.00	131	15.90	189	9.99	2.86	1777.1	1072.6	4251

212



Start: 22-APR-1993

End: 16-OCT-1993

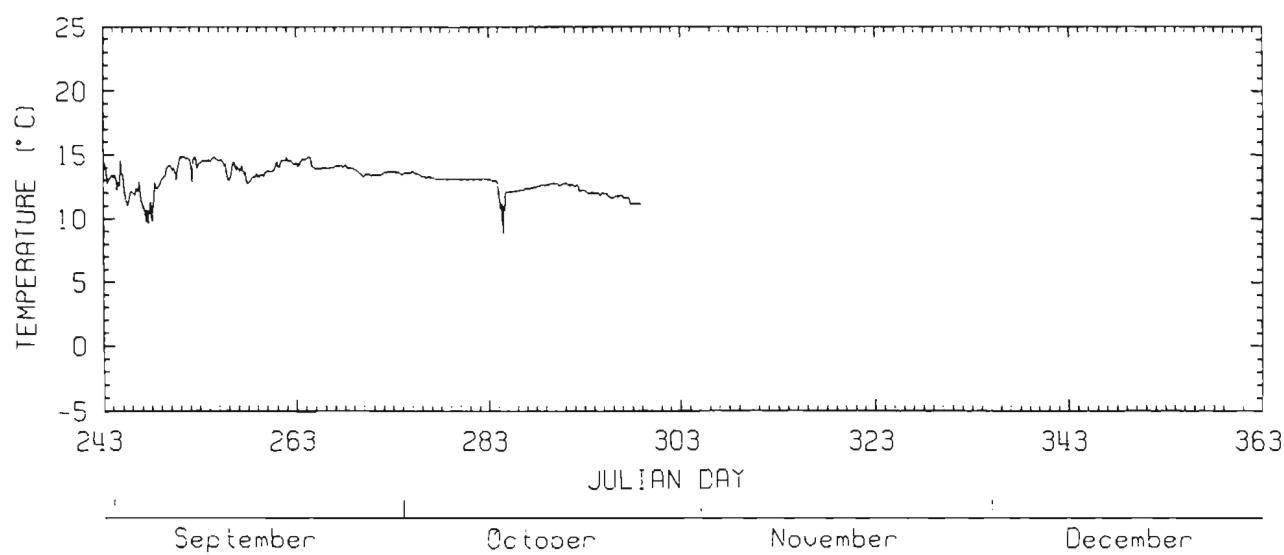
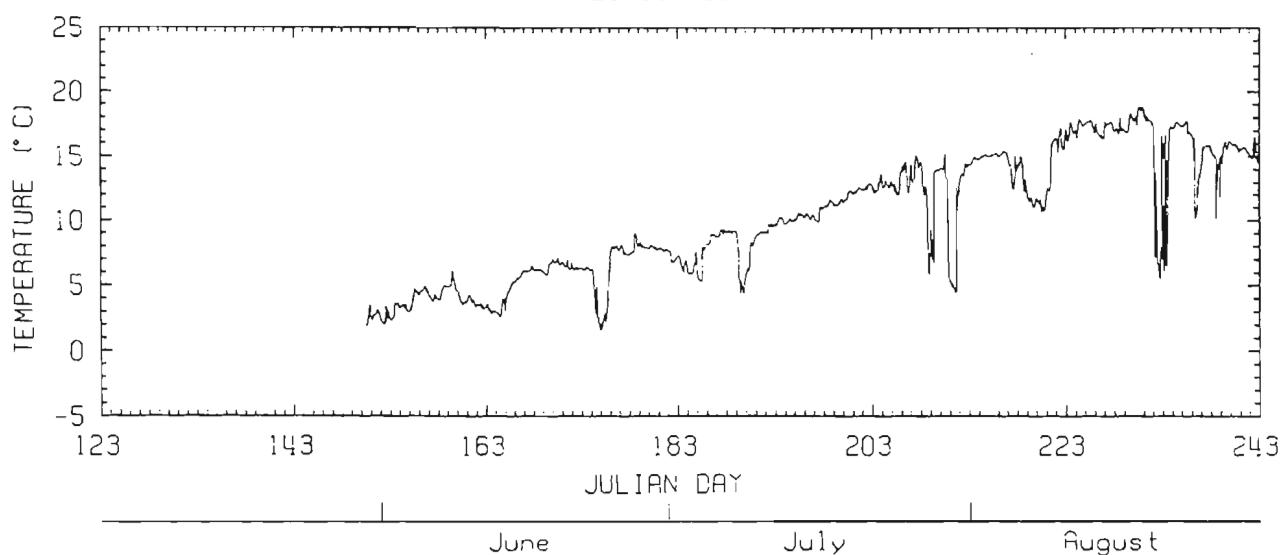
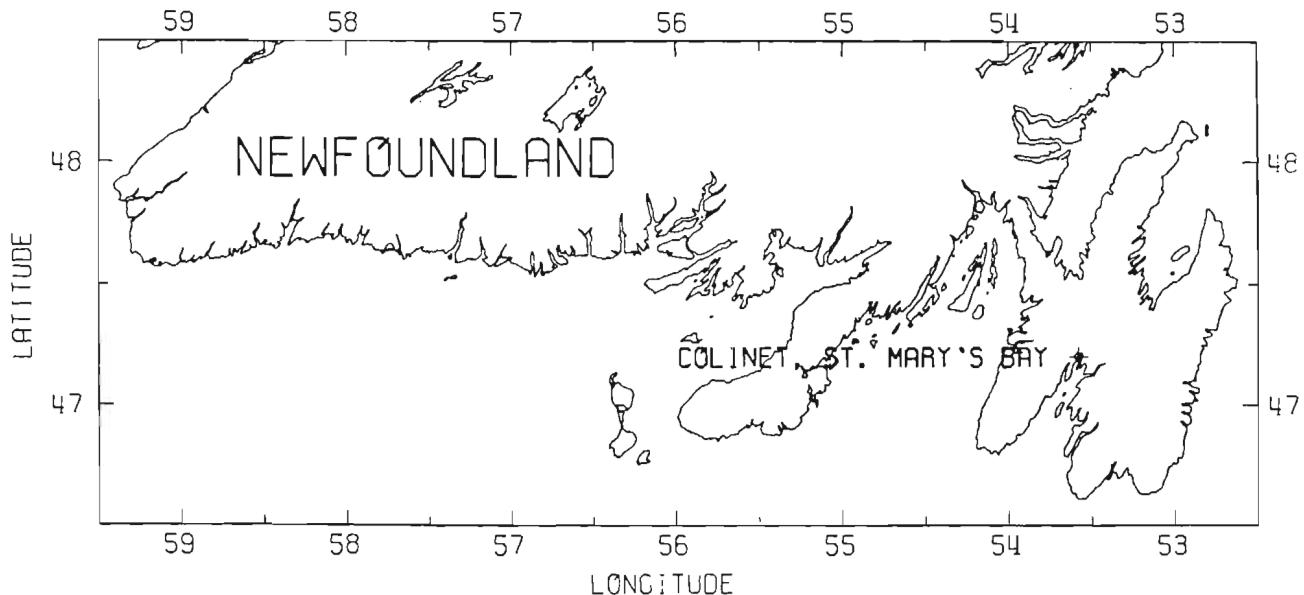
THERMOGRAPH DATA SUMMARY

STATION NAME: COLINET, S.M.B.
STATION NUMBER: 109
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 63331
LATITUDE: 47.20° N
LONGITUDE: 53.58° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 20 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 3-MAY-1990 10:00 GMT
RECOVERY DATE/TIME: 25-OCT-1990 22:40 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-1990		127	3.51	150	-1.81	2.36	10.7	0.0	351
JUN-1990	1.58	174	9.02	178	5.15	1.86	158.1	44.3	403
JUL-1990	4.37	189	15.27	210	10.22	2.78	315.8	191.8	436
AUG-1990	5.46	232	18.79	230	14.71	2.85	499.9	367.9	490
SEP-1990	9.56	247	14.88	251	13.49	1.07	407.6	287.6	389
OCT-1990	8.81	284	13.66	275	12.45	0.81	312.6	212.6	311
Total Period		127	18.79	230	9.34	6.02	1704.6	1104.2	2380

214



Start: 3-MAY-1990

End: 25-OCT-1990

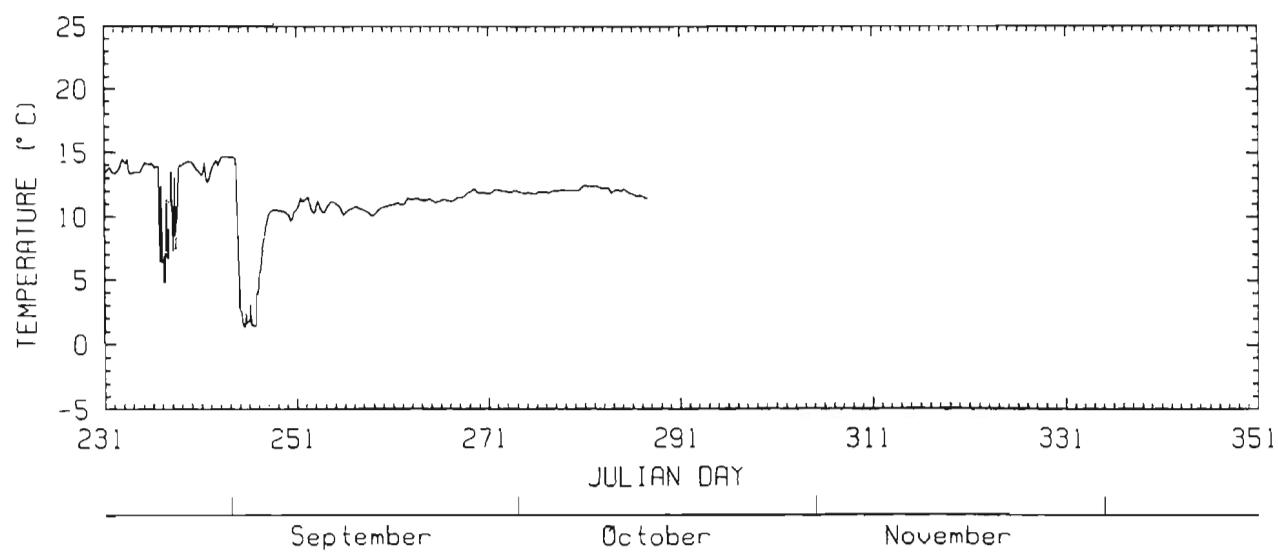
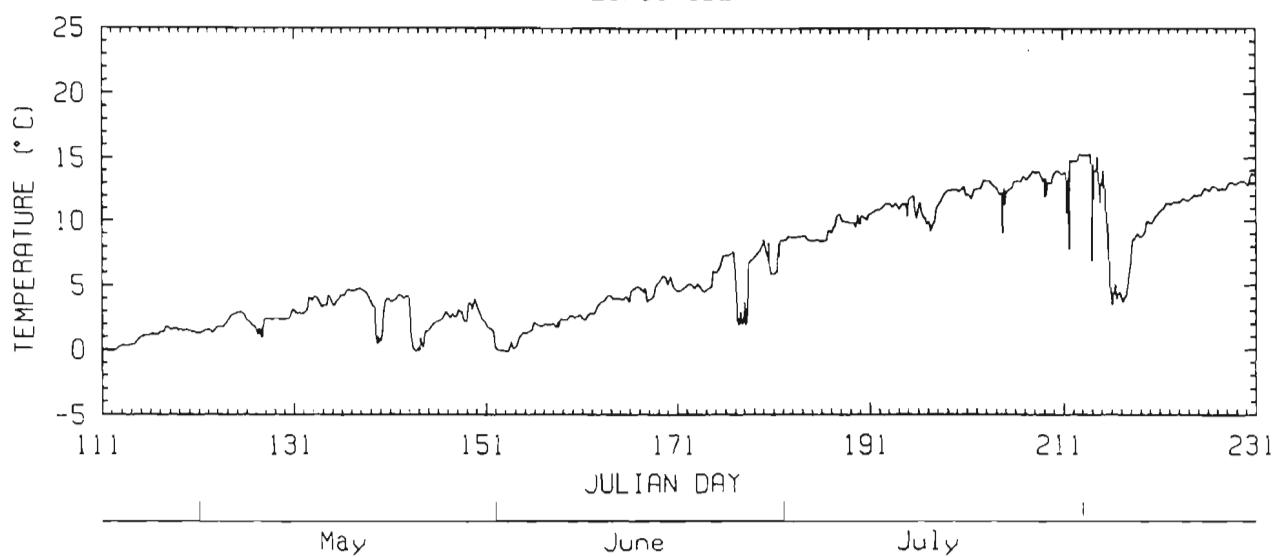
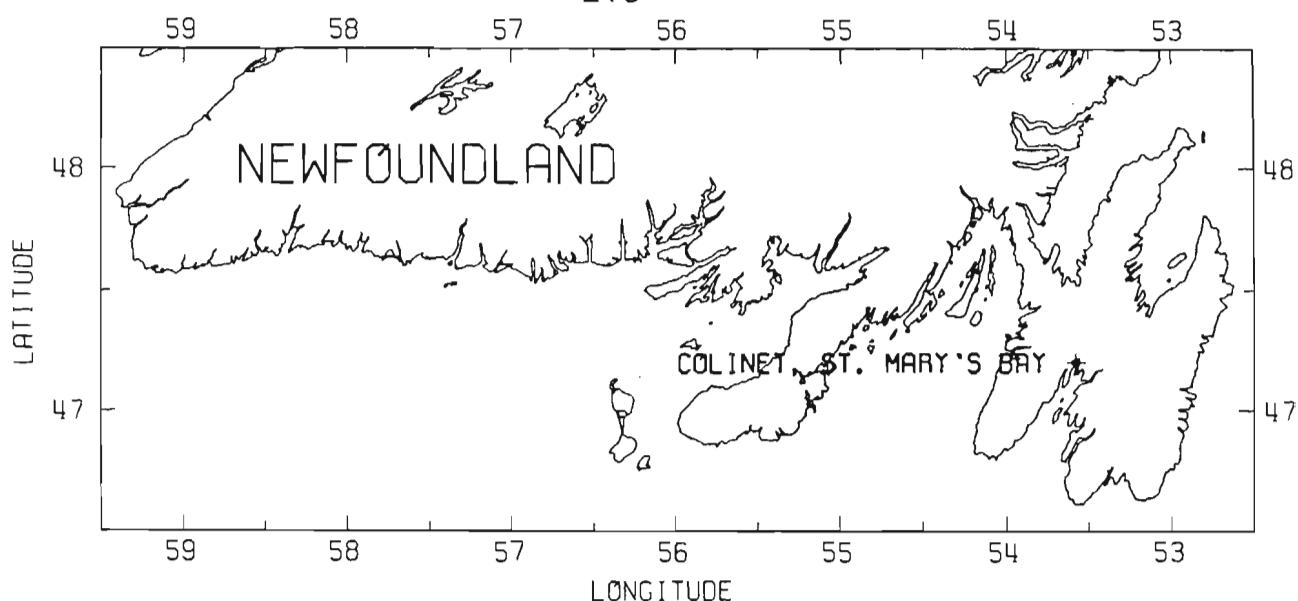
THERMOGRAPH DATA SUMMARY

STATION NAME: COLINET
STATION NUMBER: 109
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 64142
LATITUDE: 47.20° N
LONGITUDE: 53.58° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 20 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 21-APR-1991 14:17 GMT
RECOVERY DATE/TIME: 14-OCT-1991 19:57 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
APR-1991	-0.15	111	1.85	117	0.99	0.63	9.2	0.0	34
MAY-1991	-0.12	143	4.74	137	2.54	1.21	82.4	1.4	147
JUN-1991	-0.16	153	8.55	180	4.01	2.22	118.4	24.6	118
JUL-1991	7.74	211	15.32	212	11.43	1.82	351.9	227.9	145
AUG-1991	3.48	216	15.35	213	11.30	3.10	367.3	243.3	172
SEP-1991	1.31	245	14.67	244	9.47	3.37	311.4	194.3	114
OCT-1991	11.43	287	12.44	281	11.97	0.24	167.6	111.6	43
Total Period	-0.16	153	15.35	213	7.86	4.64	1408.2	803.1	773

216



Start: 21-APR-1991

End: 14-OCT-1991

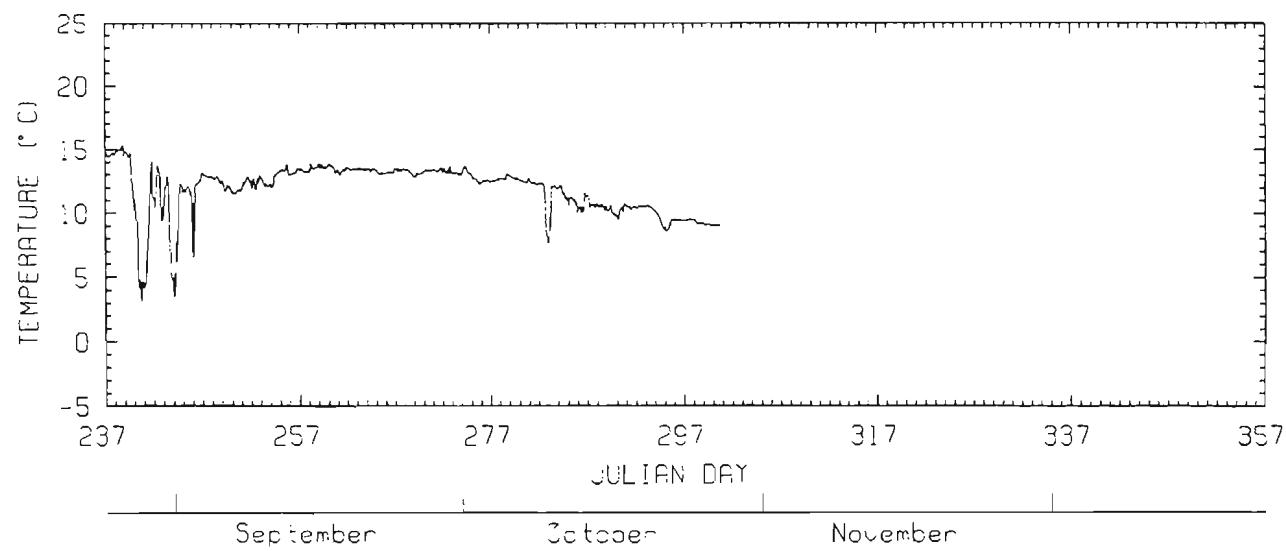
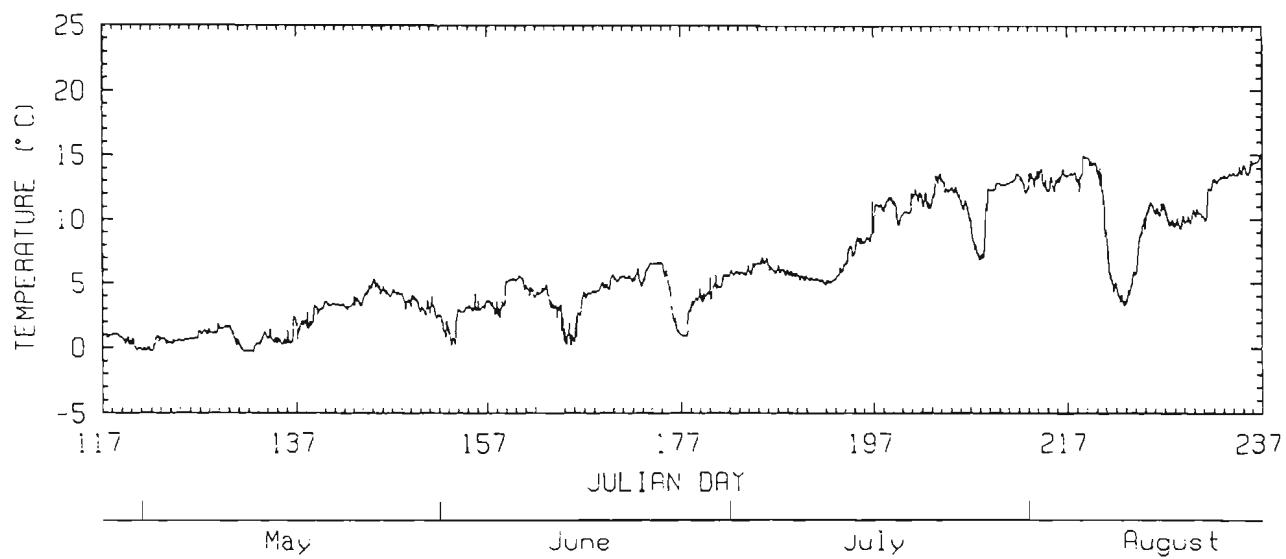
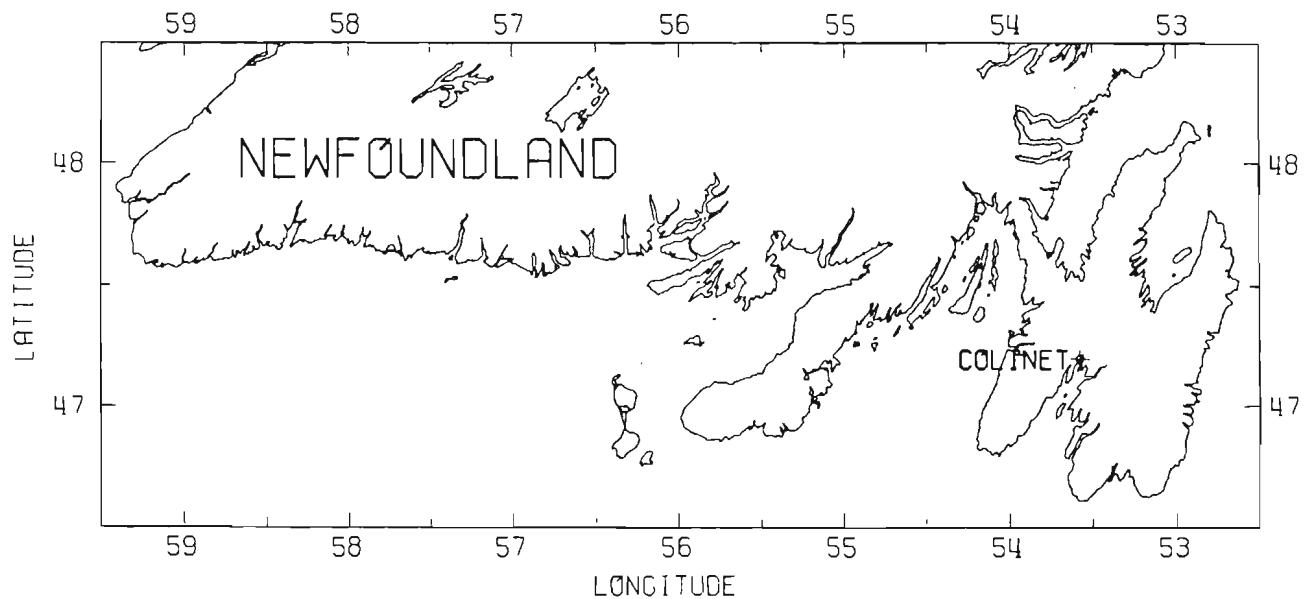
THERMOGRAPH DATA SUMMARY

STATION NAME: COLINET, ST. MARY'S BAY
STATION NUMBER: 109
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 6643
LATITUDE: 47.20° N
LONGITUDE: 53.58° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 20 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 27-APR-1993 10:00 GMT
RECOVERY DATE/TIME: 27-OCT-1993 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
APR-1993	-0.25	120	1.10	118	0.60	0.40	2.5	0.0	86
MAY-1993	-0.30	121	5.35	145	1.98	1.55	61.8	1.6	744
JUN-1993	0.15	153	6.75	174	3.87	1.58	116.1	16.9	720
JUL-1993	4.90	192	13.55	203	8.92	2.92	276.5	152.5	744
AUG-1993	3.20	222	15.45	238	11.28	3.21	349.6	225.7	744
SEP-1993	3.40	244	13.95	259	12.79	1.25	383.7	263.7	720
OCT-1993	7.55	283	13.70	274	10.92	1.42	294.5	186.5	643
Total Period	-0.30	121	15.45	238	8.08	4.64	1484.8	847.0	4401

218



Start: 27-APR-1993

End: 27-OCT-1993

Appendix 10. Time Series Plots and Monthly Statistics
from Unit Area 3PSc.

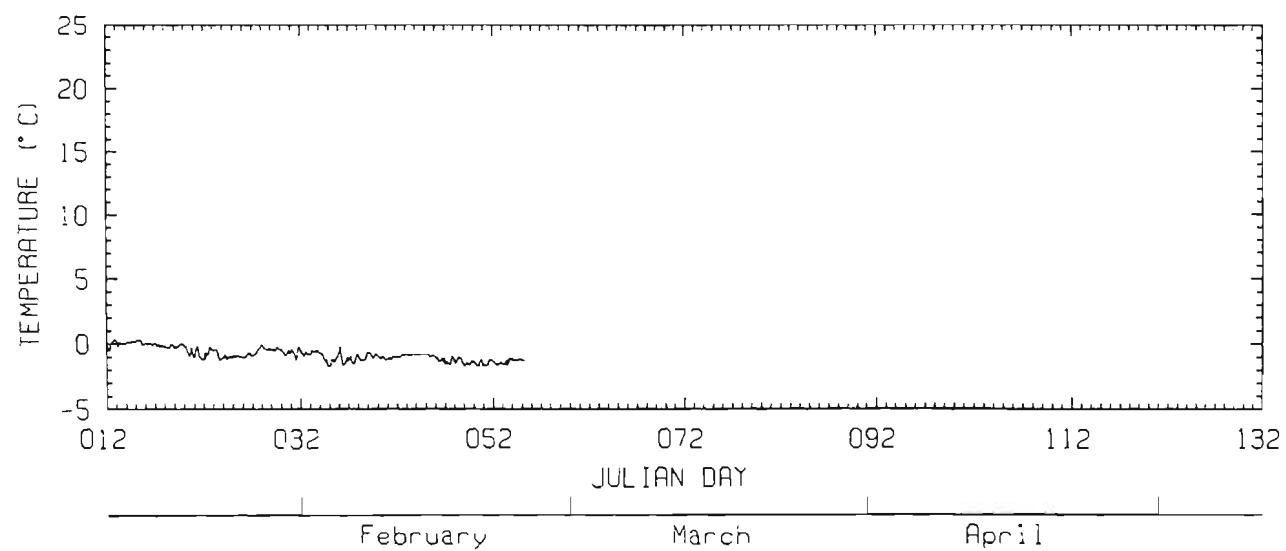
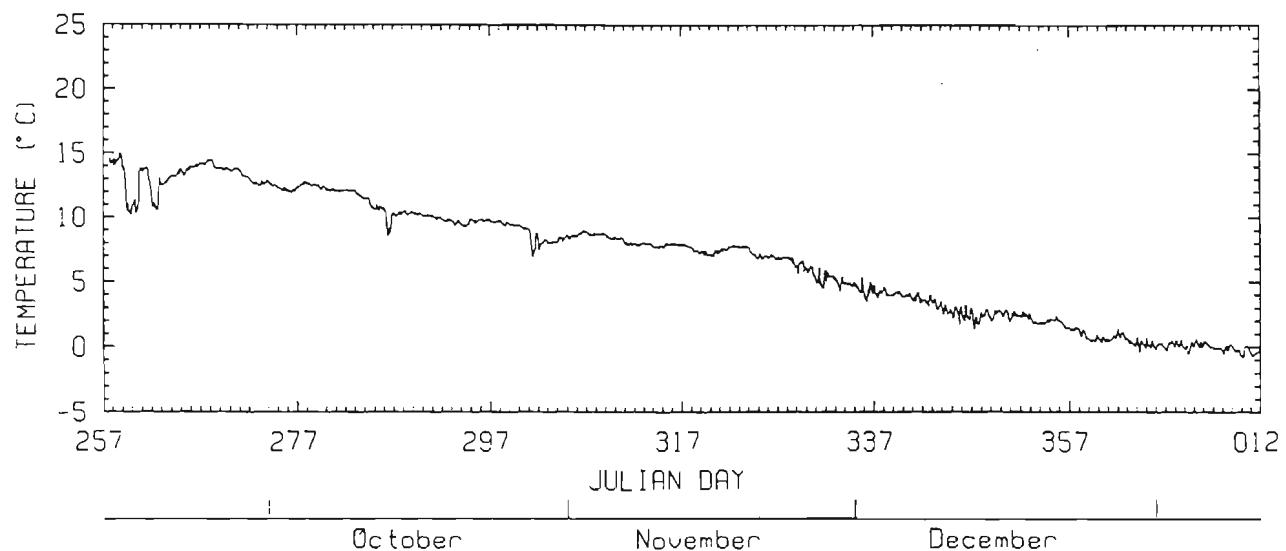
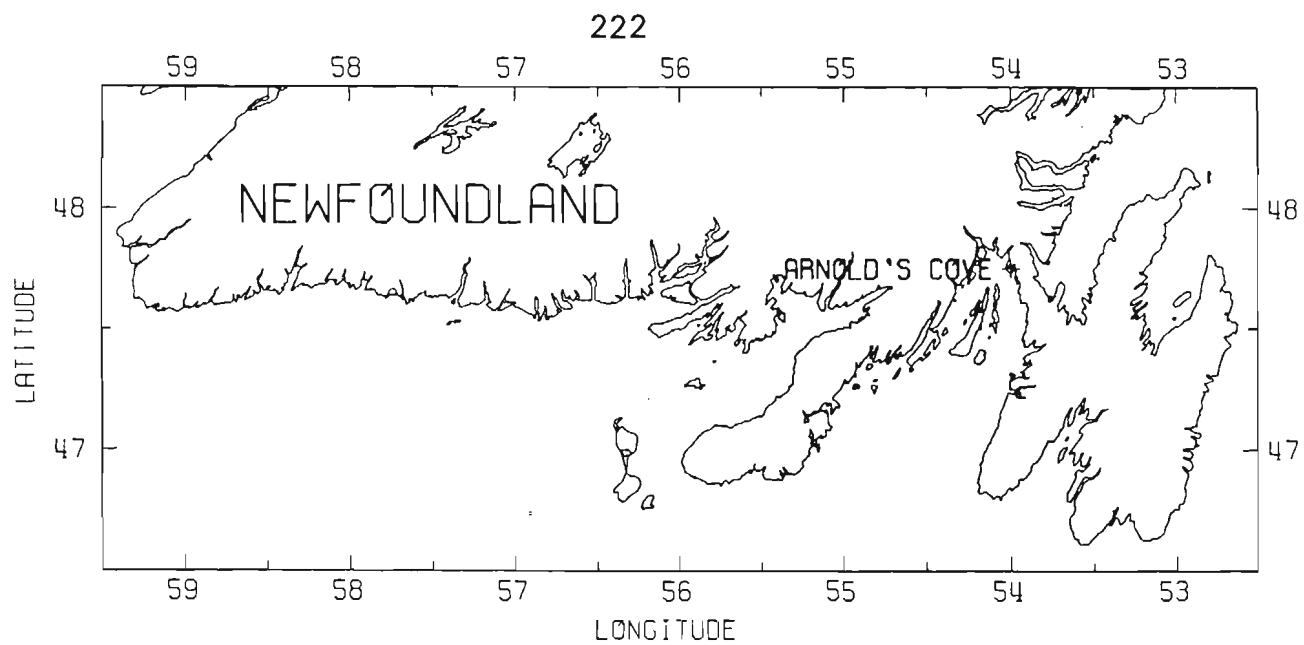


THERMOGRAPH DATA SUMMARY

STATION NAME: ARNOLD'S COVE
STATION NUMBER: 127
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3267
LATITUDE: 47.75° N
LONGITUDE: 54.00° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 14-SEP-1989 16:00 GMT
RECOVERY DATE/TIME: 24-FEB-1990 07:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
SEP-1989	10.10	259	15.00	258	13.19	1.10	225.0	157.0	392
OCT-1989	6.90	301	12.90	274	10.44	1.44	323.8	199.8	744
NOV-1989	4.30	333	9.00	306	7.29	1.13	218.7	98.7	720
DEC-1989	-0.40	364	5.40	335	2.30	1.33	71.3	1.2	744
JAN-1990	-1.30	23	0.60	2	-0.30	0.43	1.2	0.0	744
FEB-1990	-1.80	50	-0.20	36	-1.16	0.32	0.0	0.0	560
Total Period	-1.80	50	15.00	258	4.88	5.16	840.0	456.6	3904



Start: 14-SEP-1989

End: 24-FEB-1990

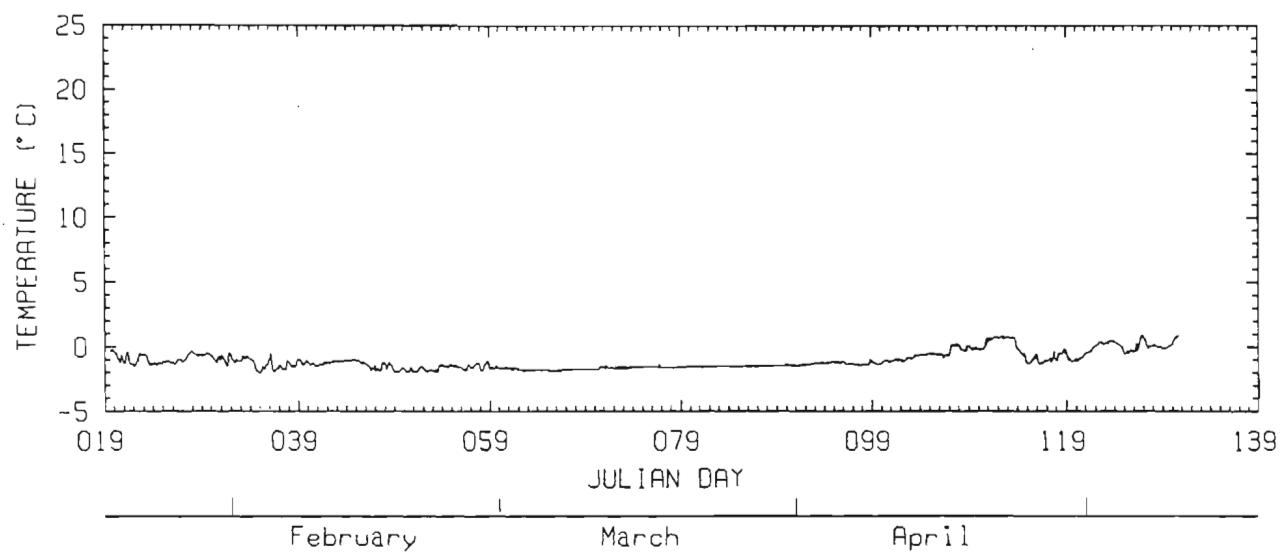
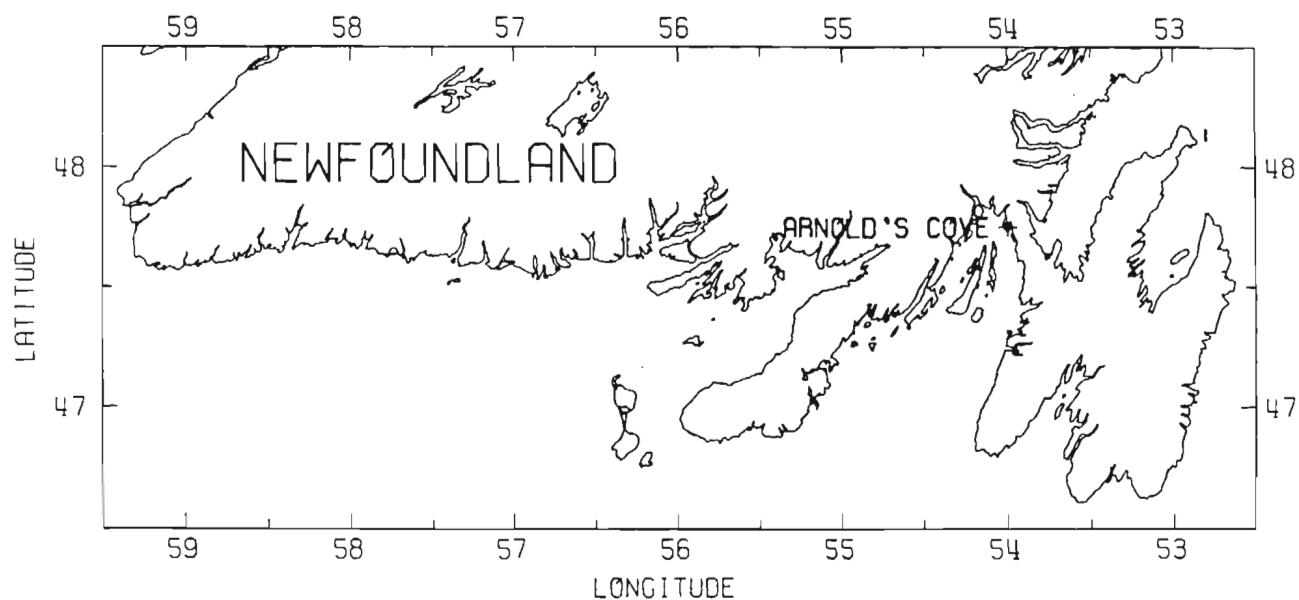
THERMOGRAPH DATA SUMMARY

STATION NAME: ARNOLD'S COVE
STATION NUMBER: 127
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3260
LATITUDE: 47.75° N
LONGITUDE: 54.00° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 19-JAN-1990 14:00 GMT
RECOVERY DATE/TIME: 10-MAY-1990 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JAN-1990	-1.50	22	-0.20	19	-0.94	0.34	0.0	0.0	298
FEB-1990	-2.00	34	-0.50	36	-1.45	0.31	0.0	0.0	672
MAR-1990	-1.90	65	-1.35	90	-1.61	0.13	0.0	0.0	744
APR-1990	-1.50	91	0.85	112	-0.73	0.64	2.0	0.0	720
MAY-1990	-0.55	124	0.95	126	0.10	0.37	1.9	0.0	233
Total Period	-2.00	34	0.95	126	-1.11	0.66	3.9	0.0	2667

224



Start: 19-JAN-1990

End: 10-MAY-1990

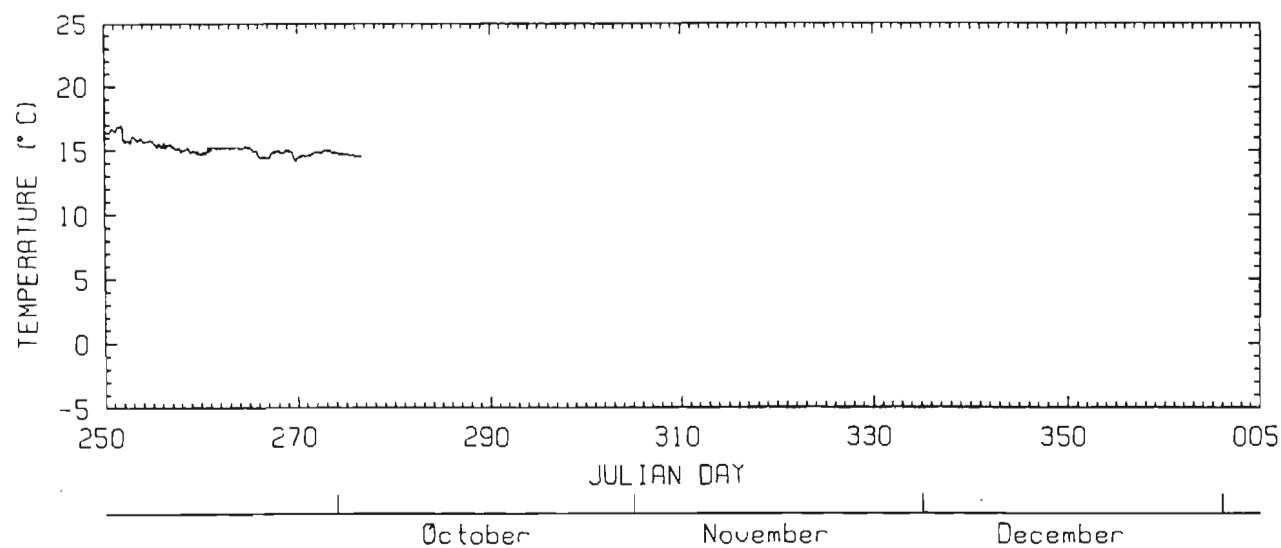
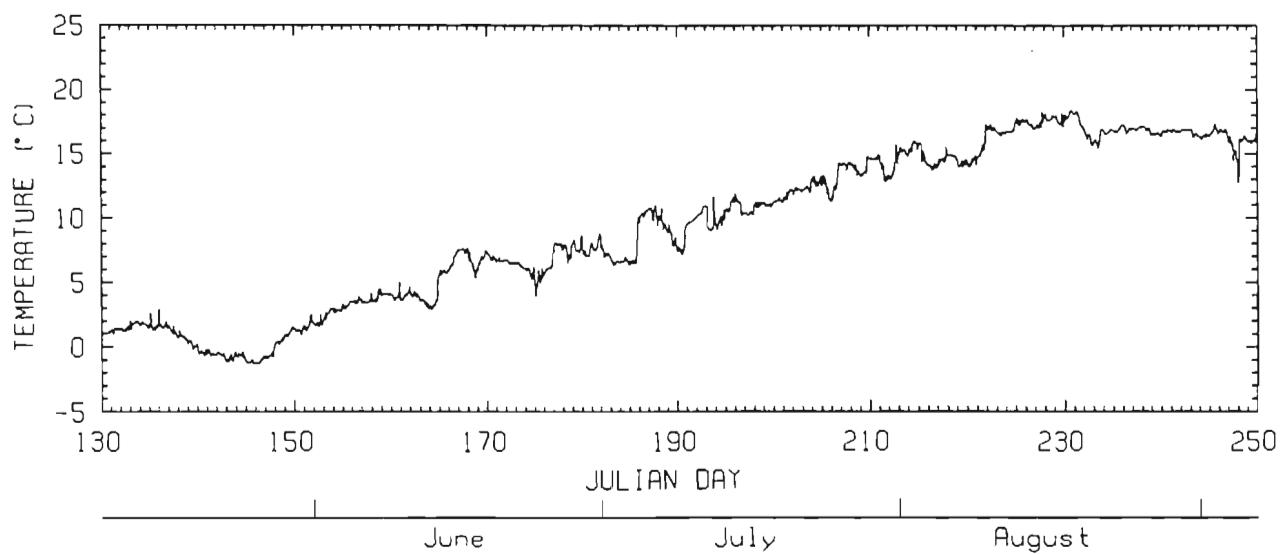
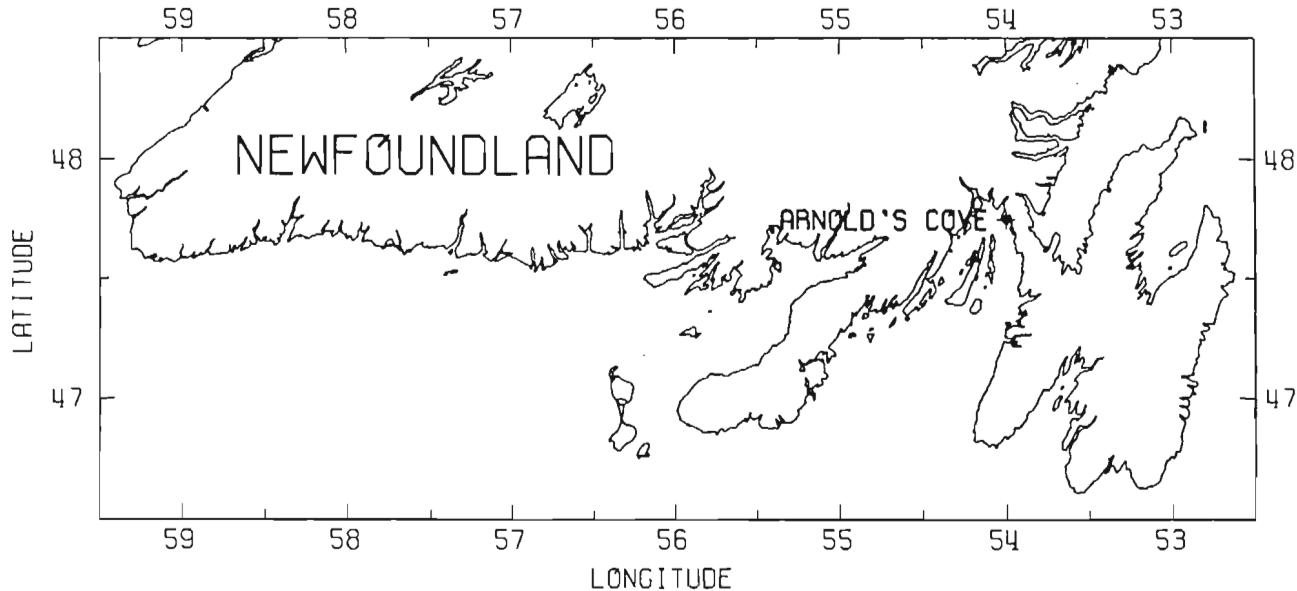
THERMOGRAPH DATA SUMMARY

STATION NAME: ARNOLD'S COVE
STATION NUMBER: 127
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3213
LATITUDE: 47.75° N
LONGITUDE: 54.00° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 10-MAY-1990 17:00 GMT
RECOVERY DATE/TIME: 3-OCT-1990 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-1990	-1.30	145	2.90	136	0.49	1.08	17.4	0.0	511
JUN-1990	1.60	152	8.80	181	5.32	1.85	159.6	47.3	720
JUL-1990	6.40	183	15.70	212	10.91	2.31	338.1	214.1	744
AUG-1990	13.70	216	18.40	230	16.34	1.17	506.6	382.6	744
SEP-1990	12.70	248	17.30	245	15.38	0.72	461.4	341.4	720
OCT-1990	14.50	276	14.80	274	14.64	0.10	43.9	31.9	65
Total Period	-1.30	145	18.40	230	10.38	5.92	1526.9	1017.3	3504

226



Start: 10-MAY-1990

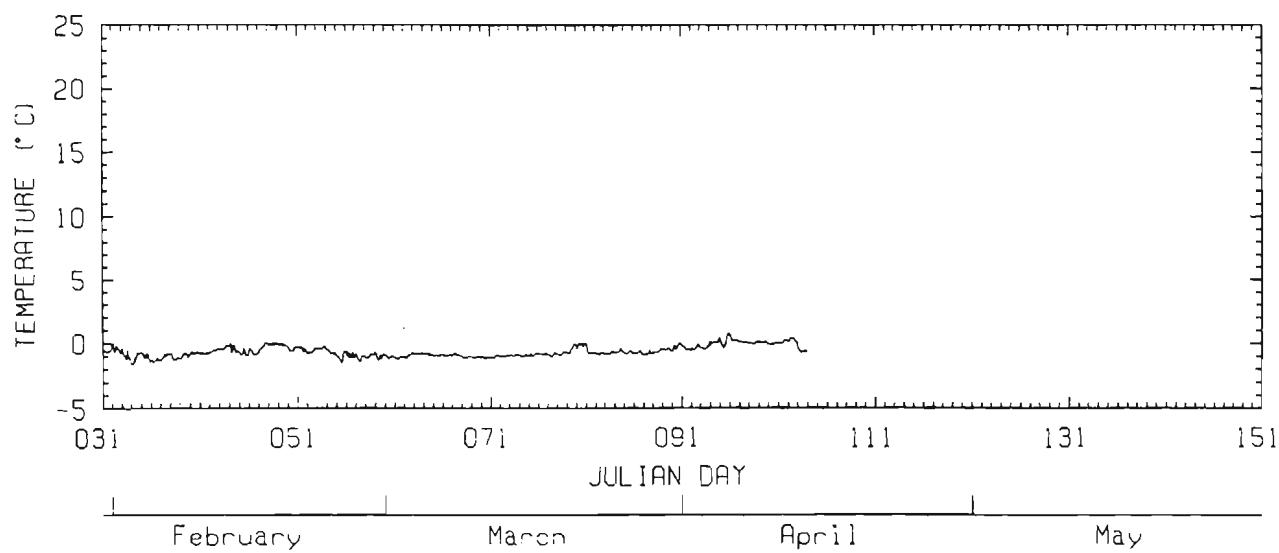
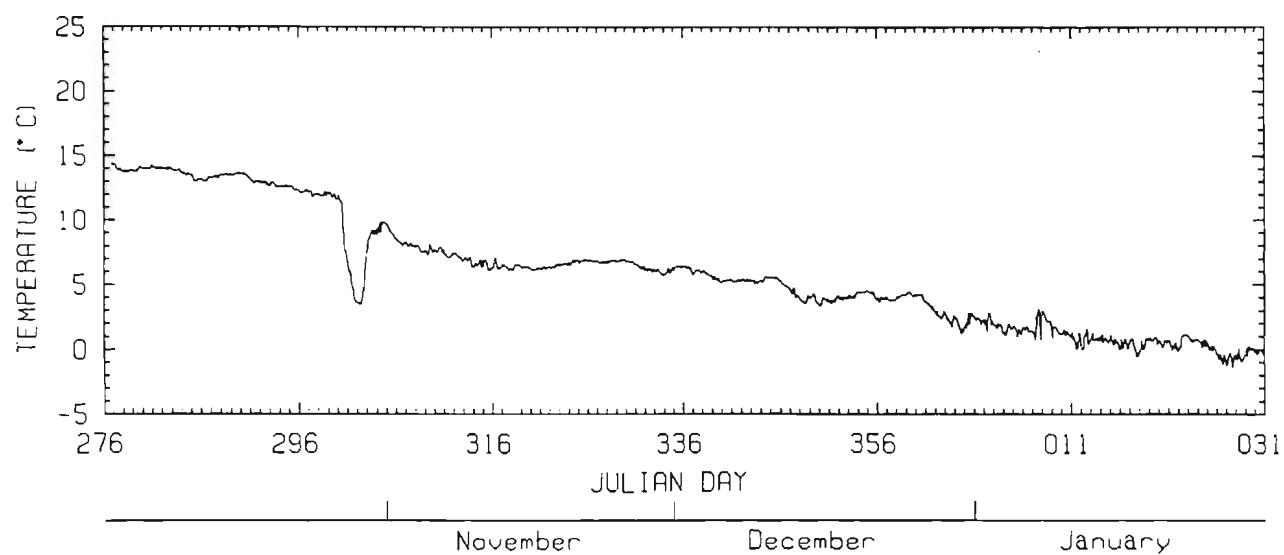
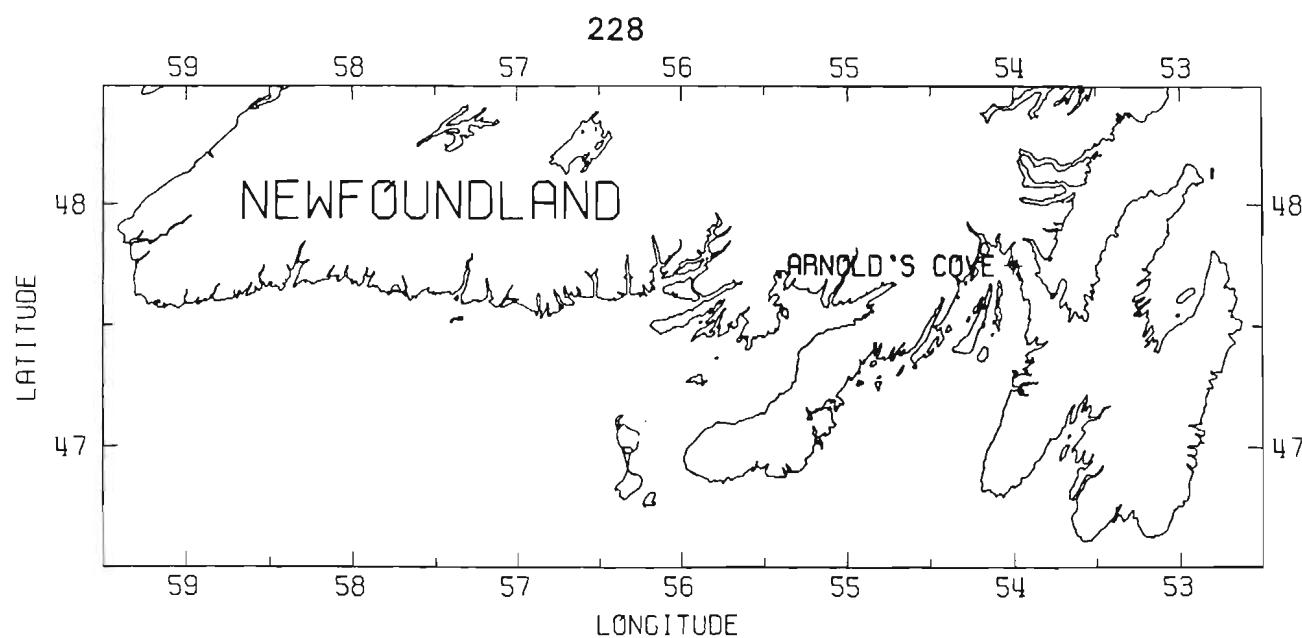
End: 3-OCT-1990

THERMOGRAPH DATA SUMMARY

STATION NAME: ARNOLD'S COVE
STATION NUMBER: 127
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3287
LATITUDE: 47.75° N
LONGITUDE: 54.00° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 3-OCT-1990 18:00 GMT
RECOVERY DATE/TIME: 13-APR-1991 23:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
OCT-1990	3.40	302	14.40	276	12.20	2.51	355.5	239.5	678
NOV-1990	5.70	333	9.70	305	6.86	0.73	205.9	85.9	720
DEC-1990	1.20	364	6.40	335	4.37	1.17	135.3	20.3	744
JAN-1991	-1.40	27	3.10	7	0.74	0.91	25.7	0.0	744
FEB-1991	-1.60	33	0.00	32	-0.73	0.37	0.0	0.0	672
MAR-1991	-1.20	60	0.00	79	-0.82	0.25	0.0	0.0	744
APR-1991	-0.80	103	0.70	95	-0.09	0.29	0.7	0.0	312
Total Period	-1.60	33	14.40	276	3.44	4.70	723.2	345.7	4614



Start: 3-OCT-1990

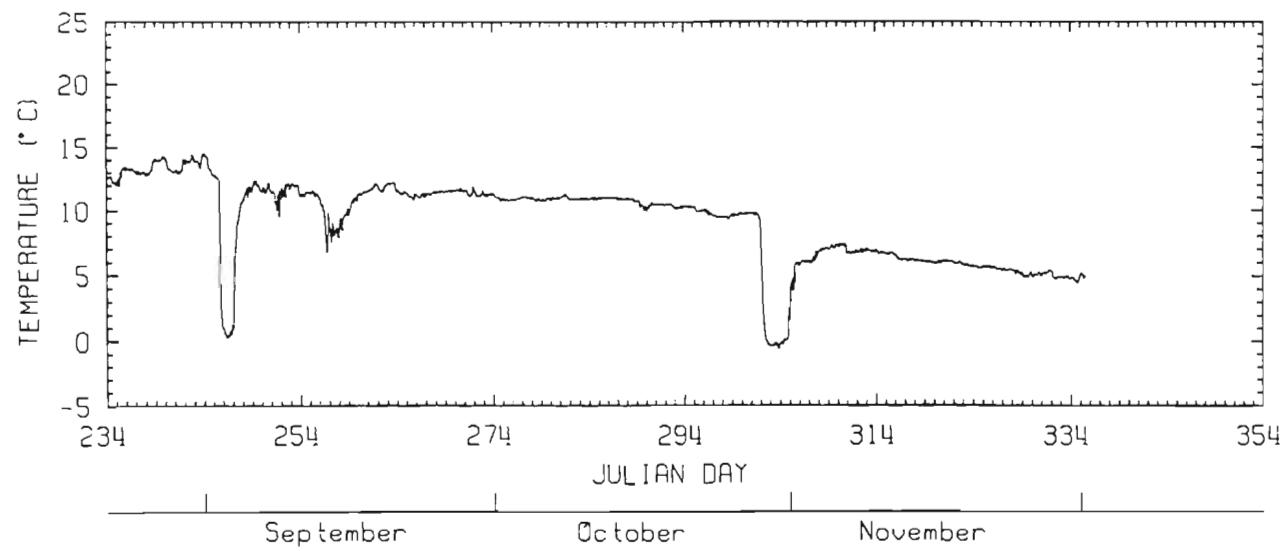
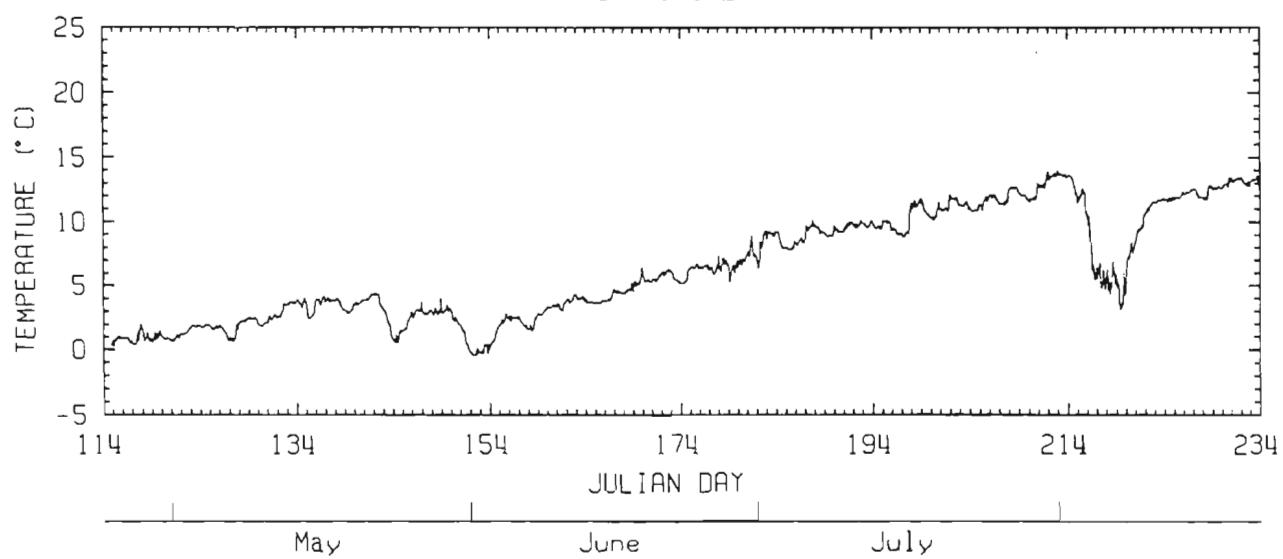
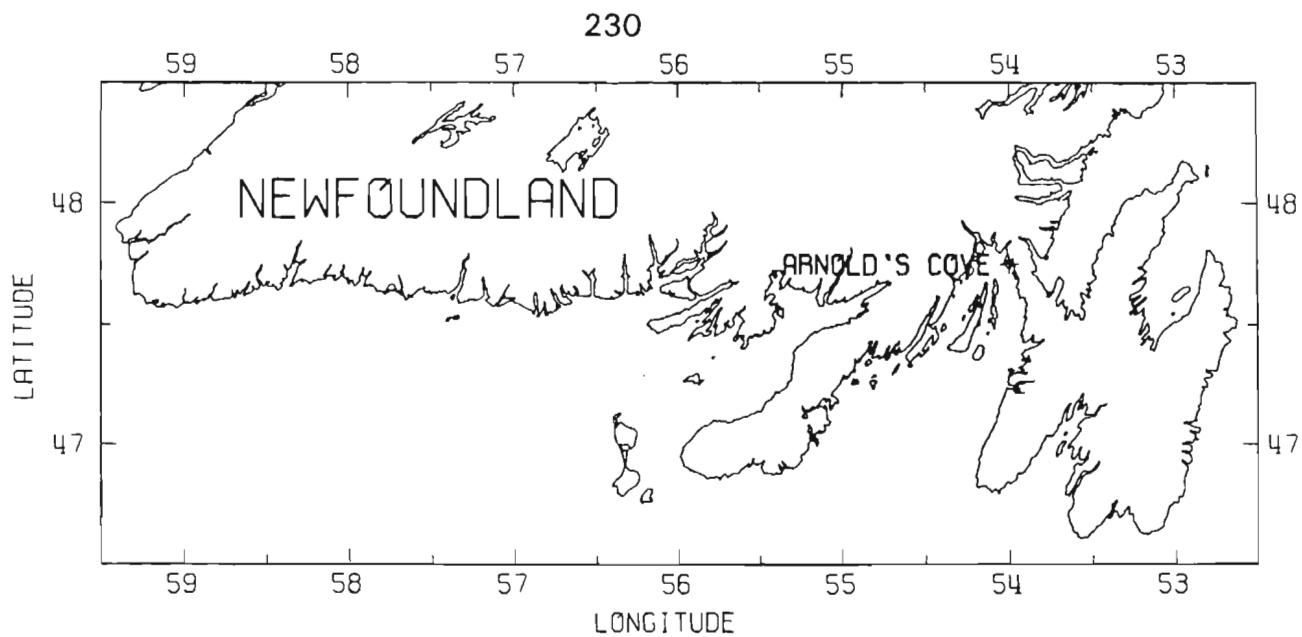
End: 13-APR-1991

THERMOGRAPH DATA SUMMARY

STATION NAME: ARNOLD'S COVE
STATION NUMBER: 127
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3263
LATITUDE: 47.75° N
LONGITUDE: 54.00° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 24-APR-1991 18:00 GMT
RECOVERY DATE/TIME: 1-DEC-1991 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
APR-1991	0.20	115	2.00	117	0.87	0.31	5.8	0.0	150
MAY-1991	-0.20	151	4.40	142	2.54	1.02	78.8	0.1	744
JUN-1991	-0.50	152	8.90	181	4.27	2.06	128.4	29.6	720
JUL-1991	6.30	182	13.90	212	10.40	1.48	322.4	198.4	744
AUG-1991	3.10	219	14.50	242	11.61	2.68	359.9	235.9	744
SEP-1991	0.20	246	14.50	244	10.72	2.48	321.6	205.0	720
OCT-1991	-0.70	303	11.30	274	9.55	3.04	296.3	182.2	744
NOV-1991	1.70	305	7.30	309	5.93	0.77	178.0	58.0	720
DEC-1991	4.80	335	5.20	335	5.05	0.12	5.0	1.0	13
Total Period	-0.70	303	14.50	242	7.67	4.03	1696.2	910.2	5299



Start: 24-APR-1991

End: 1-DEC-1991

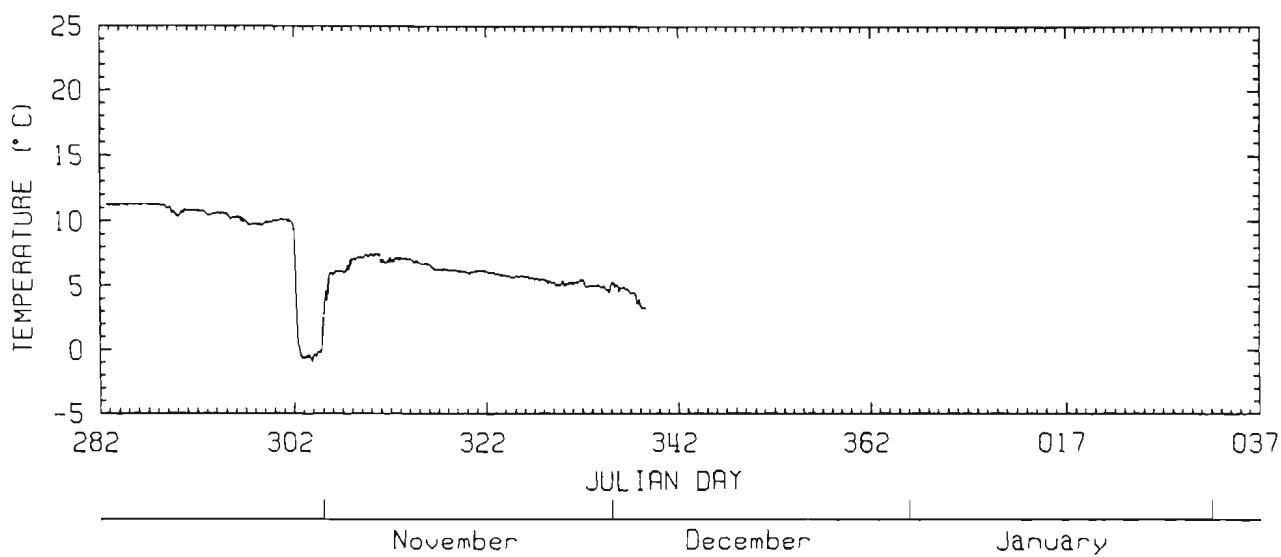
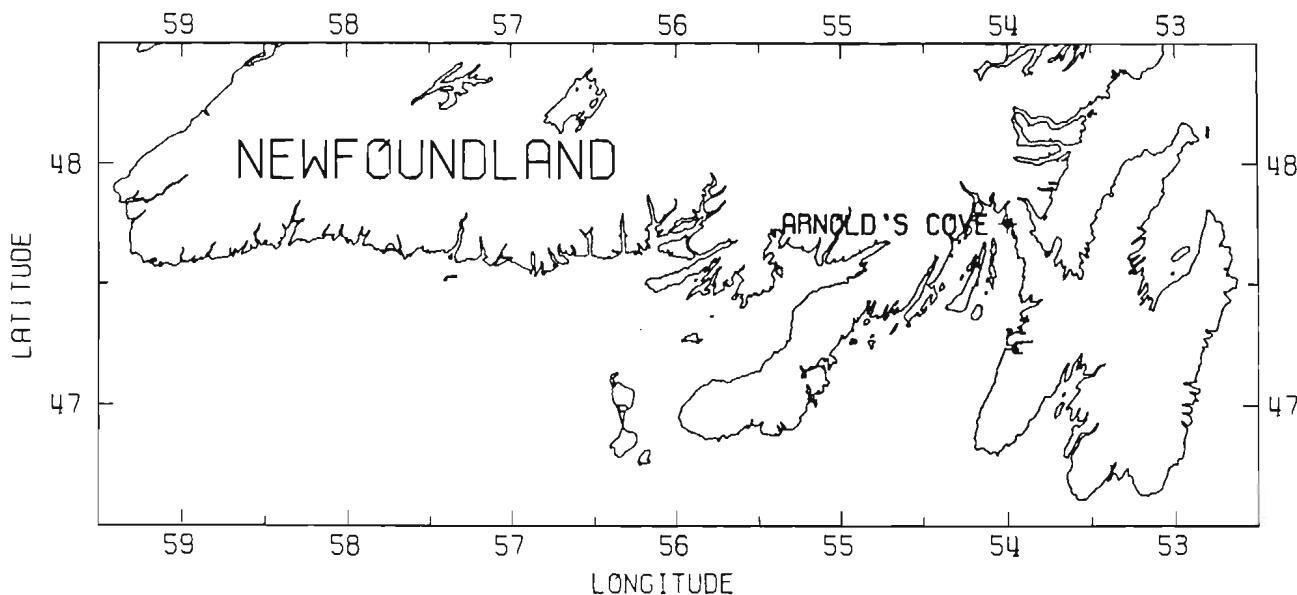
THERMOGRAPH DATA SUMMARY

STATION NAME: ARNOLD'S COVE
STATION NUMBER: 127
INSTRUMENT TYPE: Seamon UTR-A (Hugrun)
INSTRUMENT S/N: 3213
LATITUDE: 47.75° N
LONGITUDE: 54.00° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 9-OCT-1991 17:00 GMT
RECOVERY DATE/TIME: 4-DEC-1991 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
OCT-1991	-1.00	303	11.40	282	9.23	3.62	214.3	132.6	535
NOV-1991	1.40	305	7.50	309	6.04	0.81	181.3	61.3	720
DEC-1991	3.20	338	5.30	335	4.38	0.65	17.1	1.9	88
Total Period	-1.00	303	11.40	282	7.20	2.91	412.8	195.9	1343

232



Start: 9-OCT-1991

End: 4-DEC-1991

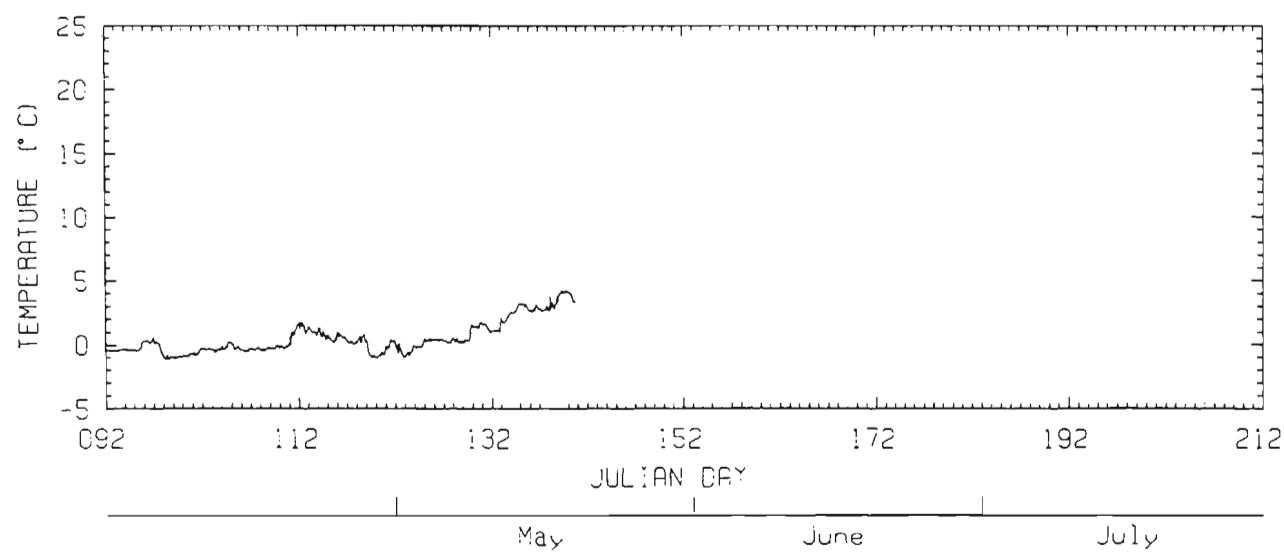
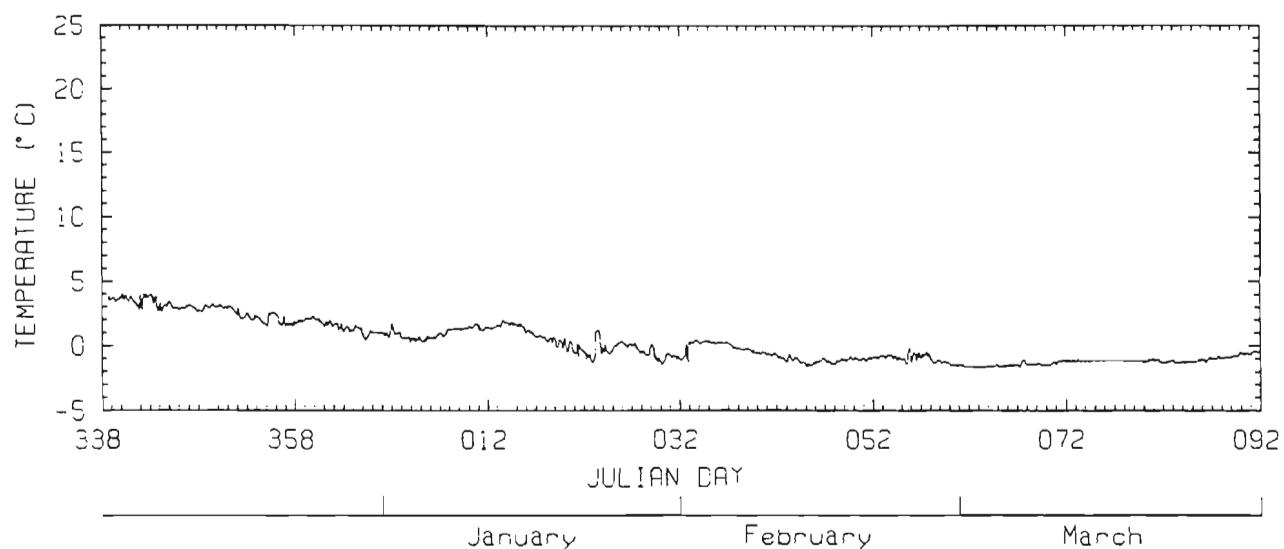
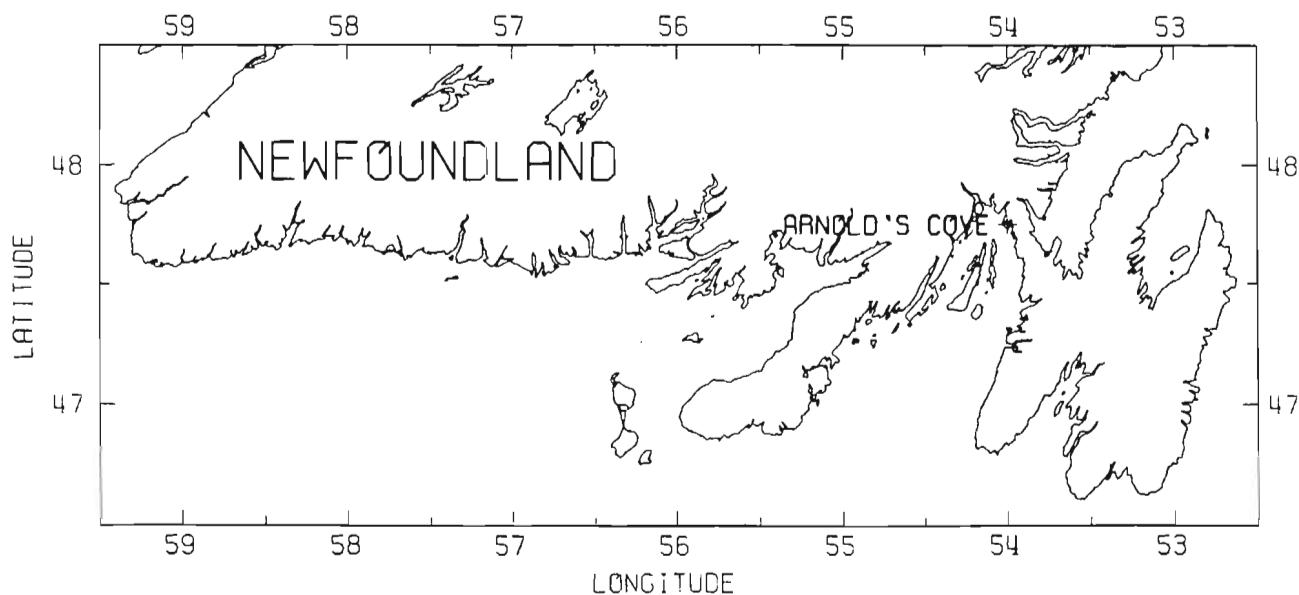
THERMOGRAPH DATA SUMMARY

STATION NAME: ARNOLD'S COVE
STATION NUMBER: 127
INSTRUMENT TYPE: Seamon UTR-A (Hugrun)
INSTRUMENT S/N: 4360
LATITUDE: 47.75° N
LONGITUDE: 54.00° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 4-DEC-1991 16:00 GMT
RECOVERY DATE/TIME: 19-MAY-1992 19:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN DAY (°C)	MAX DAY (°C)	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.		
DEC-1991	0.40	365	4.10	340	2.45	0.83	69.4	0.0	656
JAN-1992	-1.50	30	2.00	13	0.49	0.85	20.0	0.0	744
FEB-1992	-1.70	45	0.40	33	-0.78	0.54	1.0	0.0	696
MAR-1992	-1.70	62	-0.40	91	-1.22	0.28	0.0	0.0	744
APR-1992	-1.20	98	1.80	112	-0.10	0.63	6.2	0.0	720
MAY-1992	-1.00	122	4.30	139	1.51	1.44	30.1	0.1	452
Total									
Period	-1.70	45	4.30	139	0.28	1.48	126.7	0.1	4012

234



Start: 04-DEC-1991

End: 19-MAY-1992

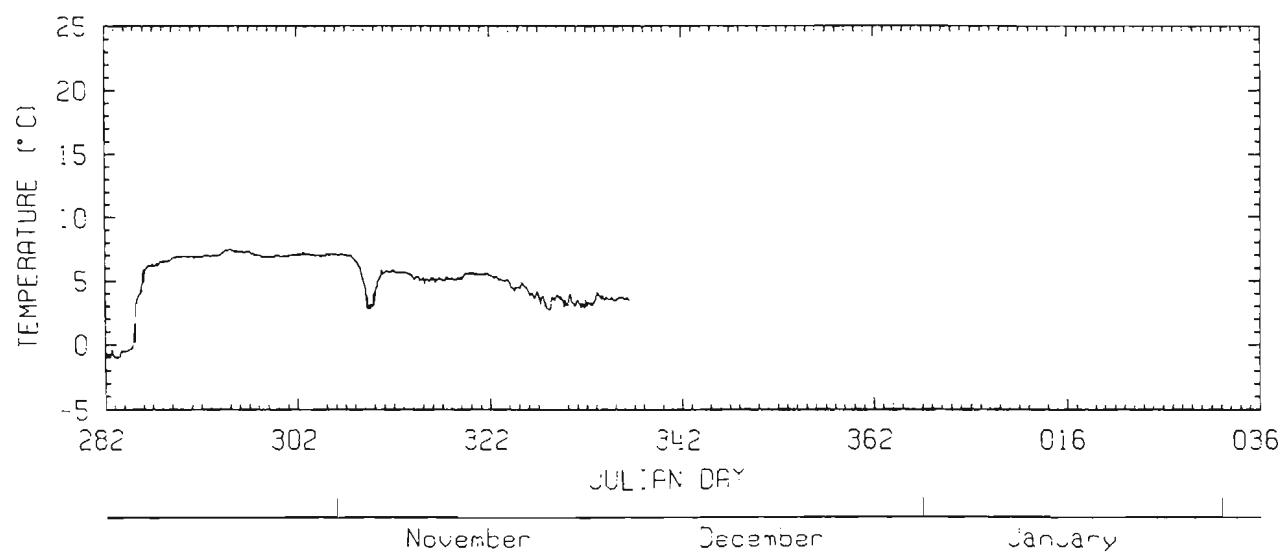
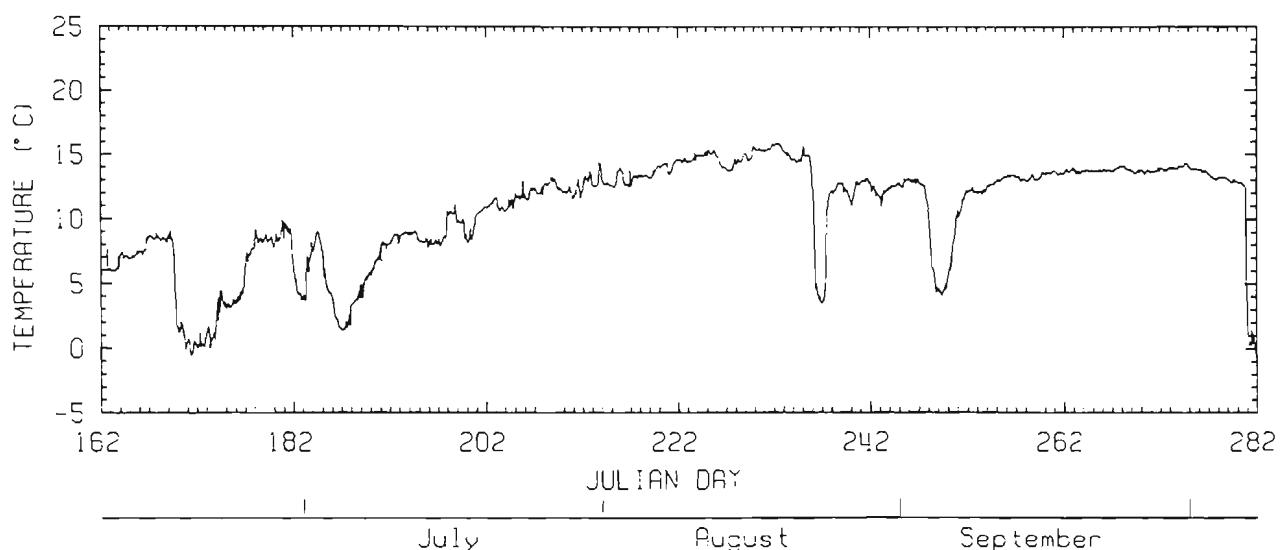
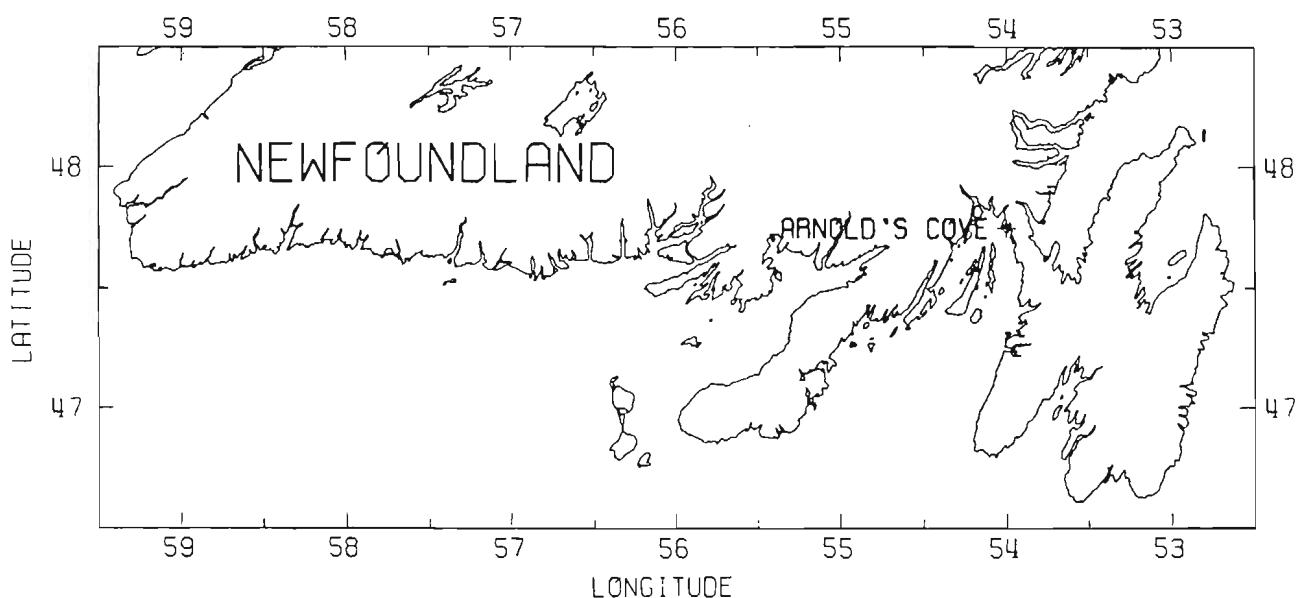
THERMOGRAPH DATA SUMMARY

STATION NAME: ARNOLD'S COVE
STATION NUMBER: 127
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3266
LATITUDE: 47.75° N
LONGITUDE: 54.00° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 10-JUN-1992 16:00 GMT
RECOVERY DATE/TIME: 1-DEC-1992 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-1992	-0.60	171	9.90	180	5.58	3.04	117.6	48.3	488
JUL-1992	1.40	187	14.40	213	9.09	3.13	281.8	161.8	744
AUG-1992	3.40	236	15.90	232	13.40	2.19	415.6	291.6	744
SEP-1992	4.00	249	14.30	274	12.58	2.30	377.4	257.4	720
OCT-1992	-1.00	283	14.00	275	7.10	3.88	222.1	113.8	744
NOV-1992	2.70	309	7.10	306	4.71	1.11	141.2	27.2	720
DEC-1992	3.40	336	3.70	336	3.57	0.07	3.6	0.0	13
Total Period	-1.00	283	15.90	232	8.92	4.29	1559.2	900.0	4173

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Start: 10-JUN-1992

End: 1-DEC-1992

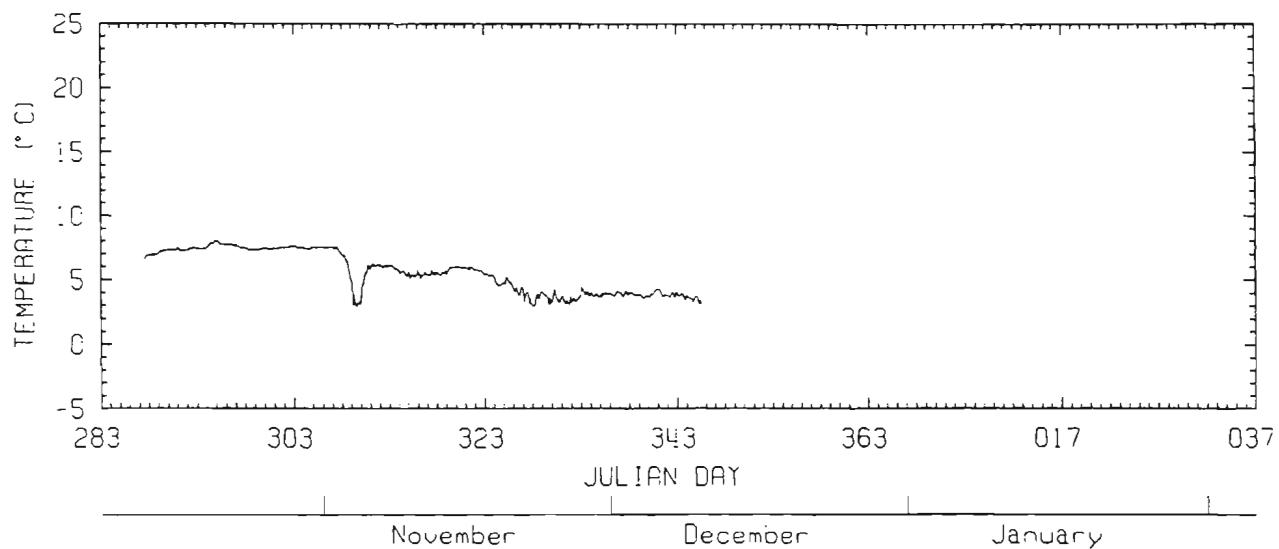
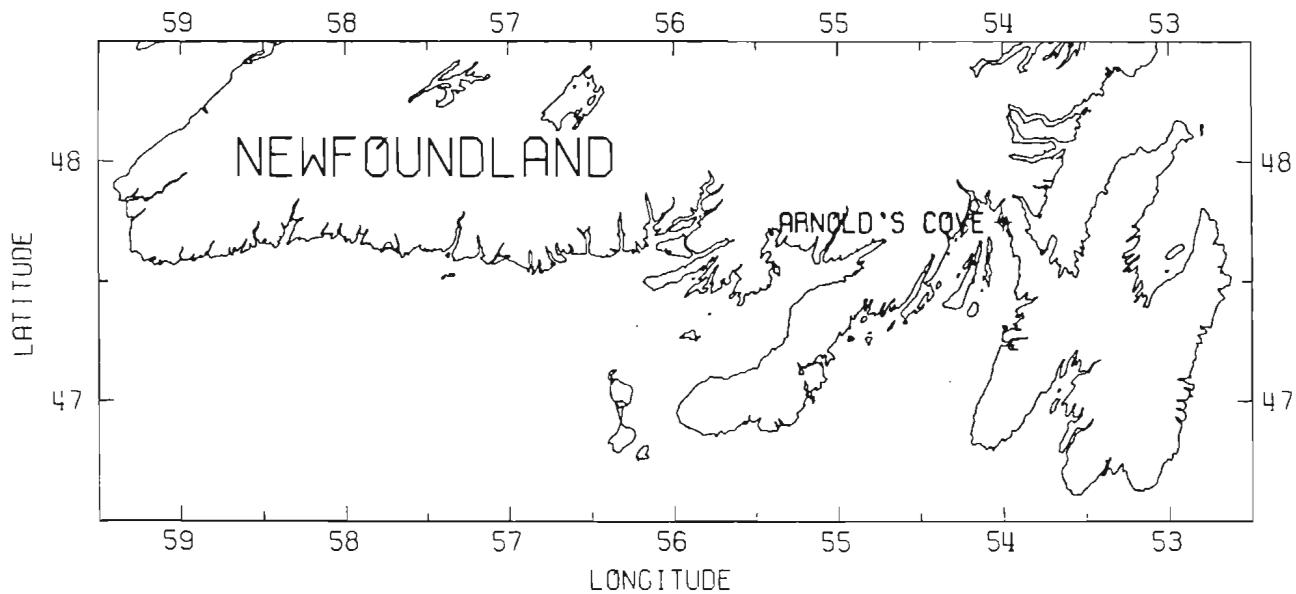
THERMOGRAPH DATA SUMMARY

STATION NAME: ARNOLD'S COVE
STATION NUMBER: 127
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 6744
LATITUDE: 47.75° N
LONGITUDE: 54.00° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 9-OCT-1992 14:00 GMT
RECOVERY DATE/TIME: 10-DEC-1992 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
OCT-1992	6.55	287	8.05	294	7.42	0.23	140.7	64.7	444
NOV-1992	2.85	309	7.60	306	5.01	1.19	150.3	34.0	720
DEC-1992	3.10	345	4.25	340	3.80	0.23	37.8	0.0	231
Total Period	2.85	309	8.05	294	5.58	1.59	328.9	98.7	1395

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Start: 9-OCT-1992

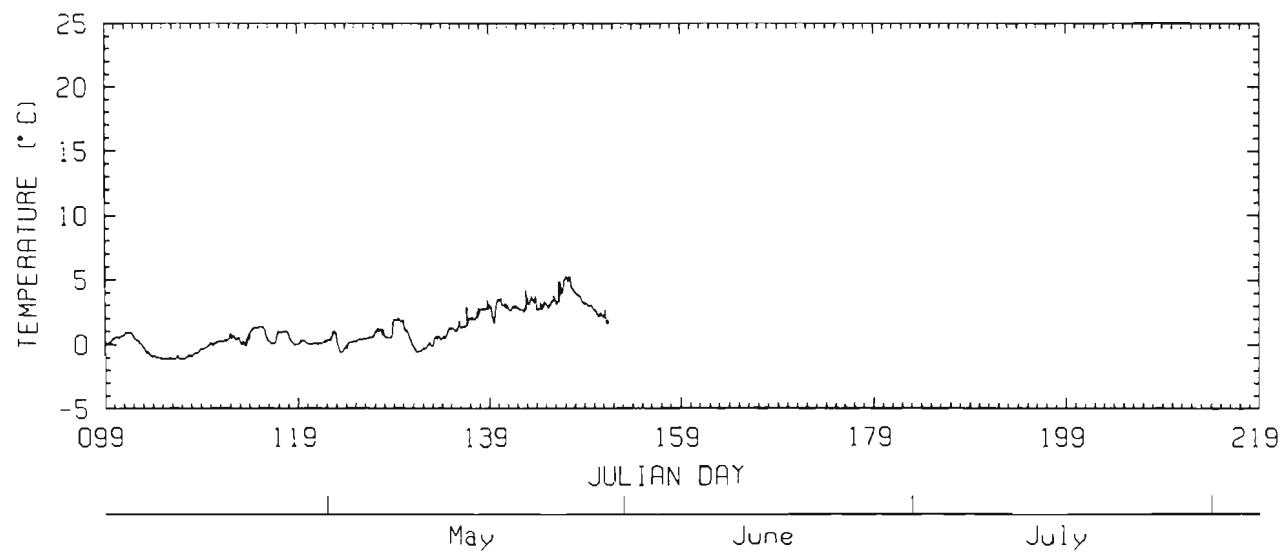
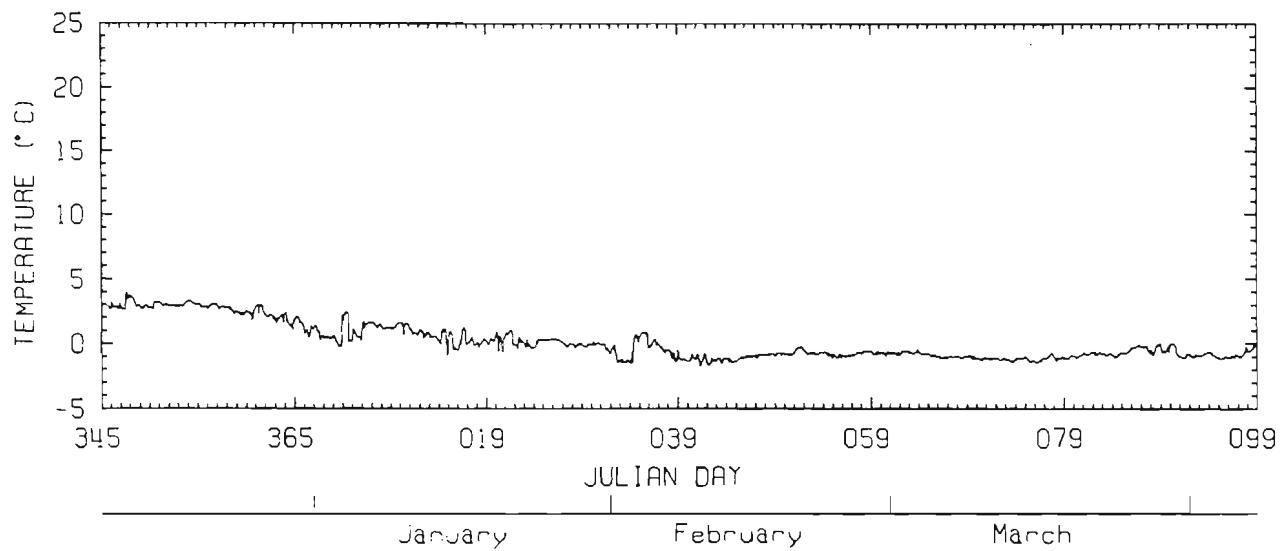
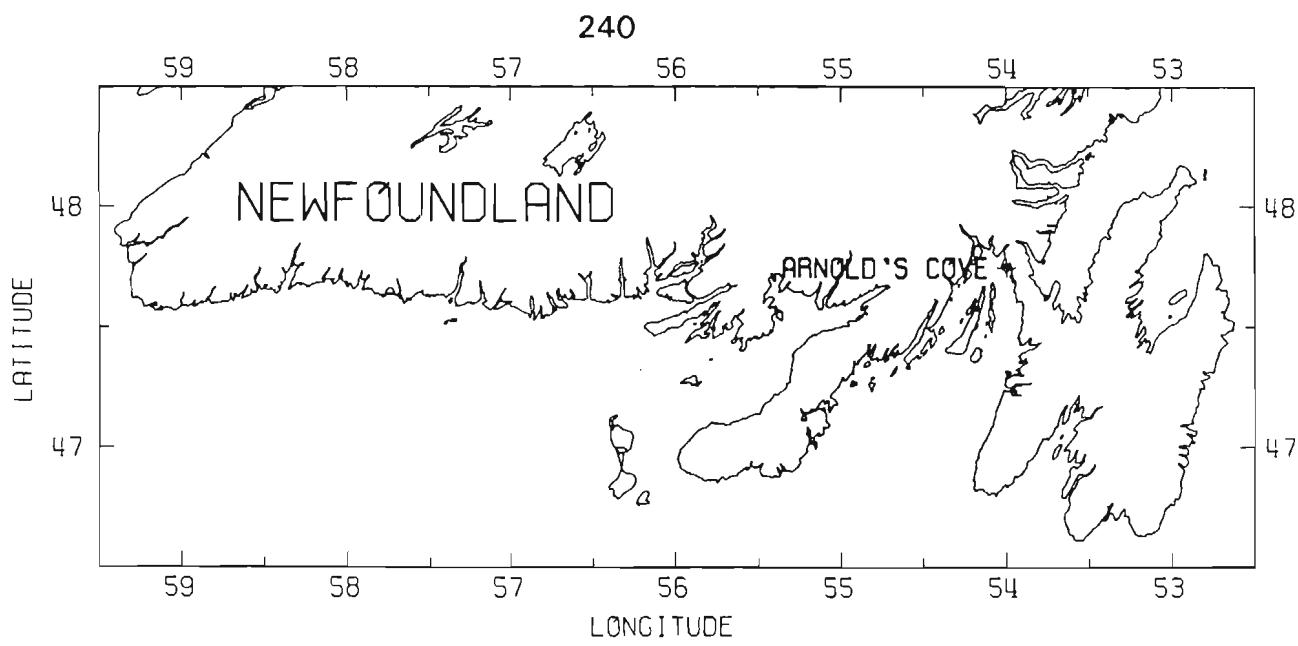
End: 10-DEC-1992

THERMOGRAPH DATA SUMMARY

STATION NAME: ARNOLD'S COVE
STATION NUMBER: 127
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5457
LATITUDE: 47.75° N
LONGITUDE: 54.00° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 10-DEC-1992 17:00 GMT
RECOVERY DATE/TIME: 31-MAY-1993 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
DEC-1992	0.45	366	3.95	347	2.57	0.61	56.6	0.0	511
JAN-1993	-0.95	14	2.45	4	0.48	0.64	15.6	0.0	744
FEB-1993	-1.80	41	0.90	35	-0.83	0.50	0.7	0.0	672
MAR-1993	-1.45	73	0.00	90	-0.89	0.31	0.0	0.0	744
APR-1993	-1.15	91	1.40	115	-0.20	0.74	6.8	0.0	720
MAY-1993	-0.60	123	5.25	147	1.75	1.43	55.4	0.8	733
Total Period	-1.80	41	5.25	147	0.39	1.47	135.1	0.8	4124



Start: 10-DEC-1992

End: 31-MAY-1993

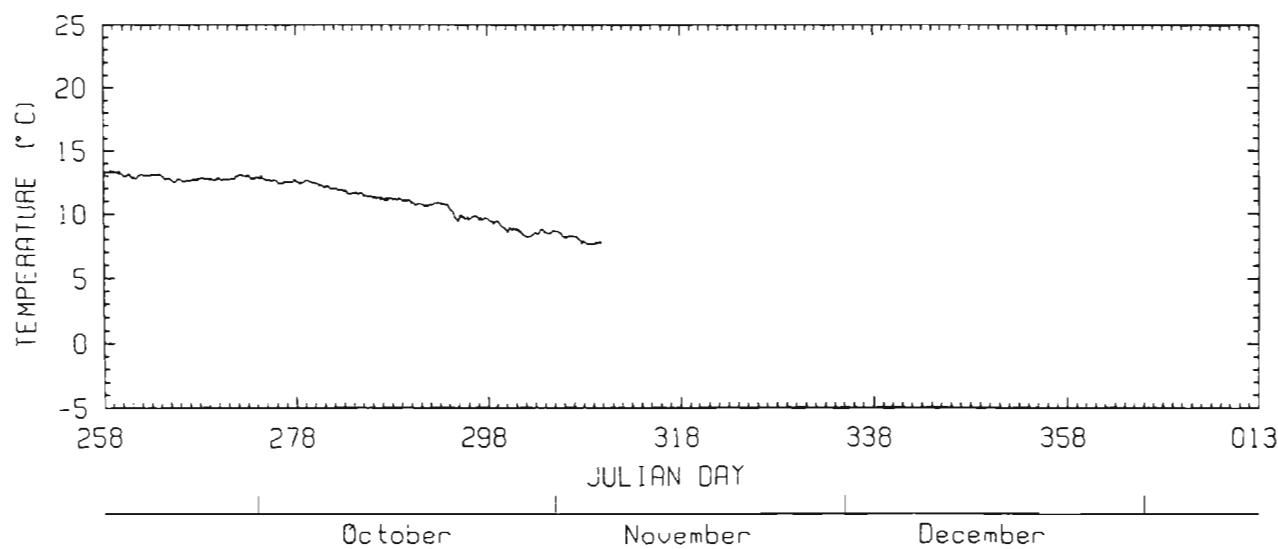
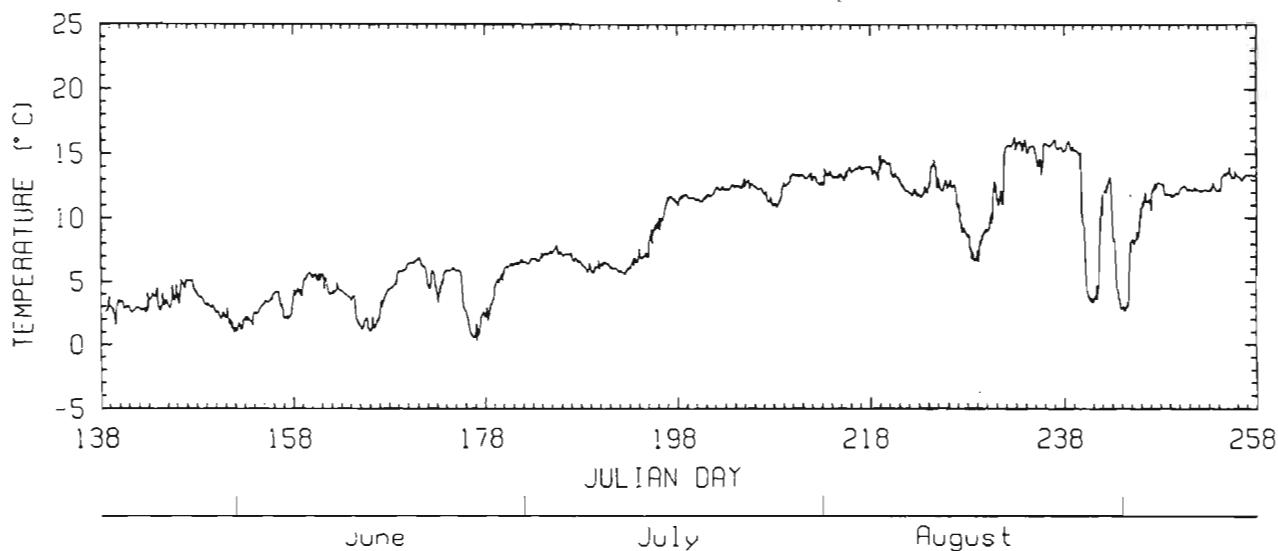
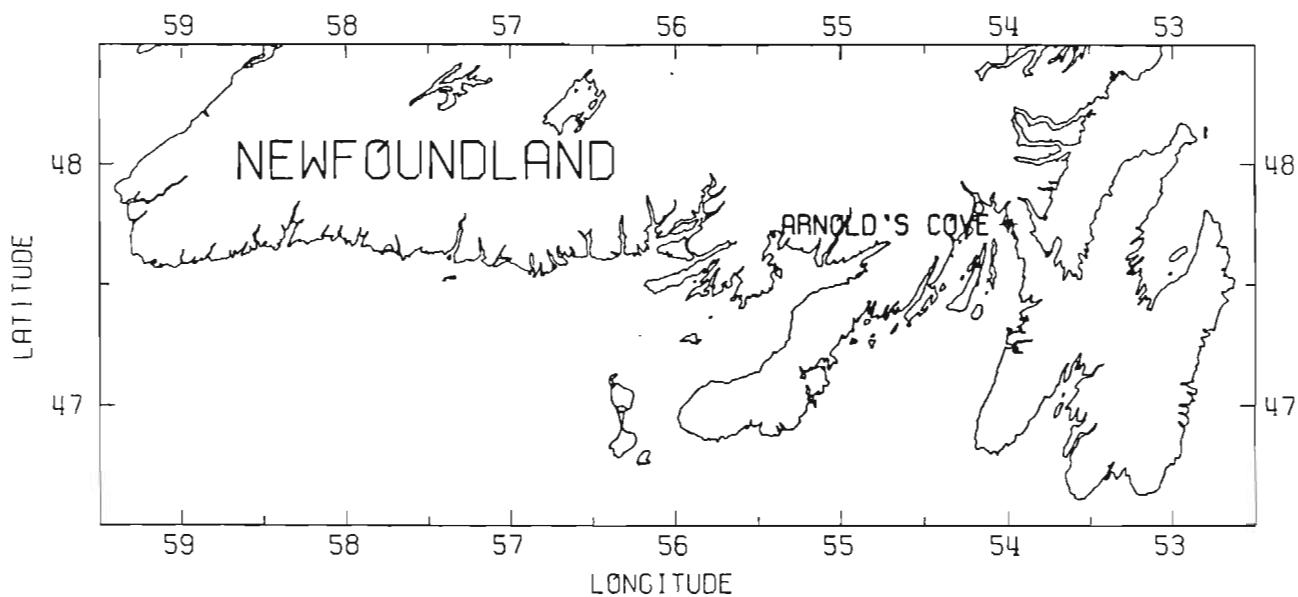
THERMOGRAPH DATA SUMMARY

STATION NAME: ARNOLD'S COVE
STATION NUMBER: 127
INSTRUMENT TYPE: Seamon UTR-A (Hugrun)
INSTRUMENT S/N: 3213
LATITUDE: 47.75° N
LONGITUDE: 54.00° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 18-MAY-1993 12:00 GMT
RECOVERY DATE/TIME: 5-NOV-1993 20:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1993	1.00	151	5.20	146	3.23	0.87	45.1	1.2	324
JUN-1993	0.20	177	6.90	171	4.03	1.73	121.0	21.8	720
JUL-1993	5.60	192	13.60	211	9.70	2.77	300.7	176.7	744
AUG-1993	2.80	243	16.30	232	12.35	3.18	382.9	258.9	744
SEP-1993	2.60	244	14.00	255	12.29	1.80	368.8	248.8	720
OCT-1993	8.20	301	13.10	274	10.78	1.43	334.1	210.1	744
NOV-1993	7.60	307	8.60	305	8.01	0.32	40.0	20.0	117
Total Period	0.20	177	16.30	232	9.28	4.03	1592.6	937.5	4113

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Start: 18-MAY-1993

End: 5-NOV-1993

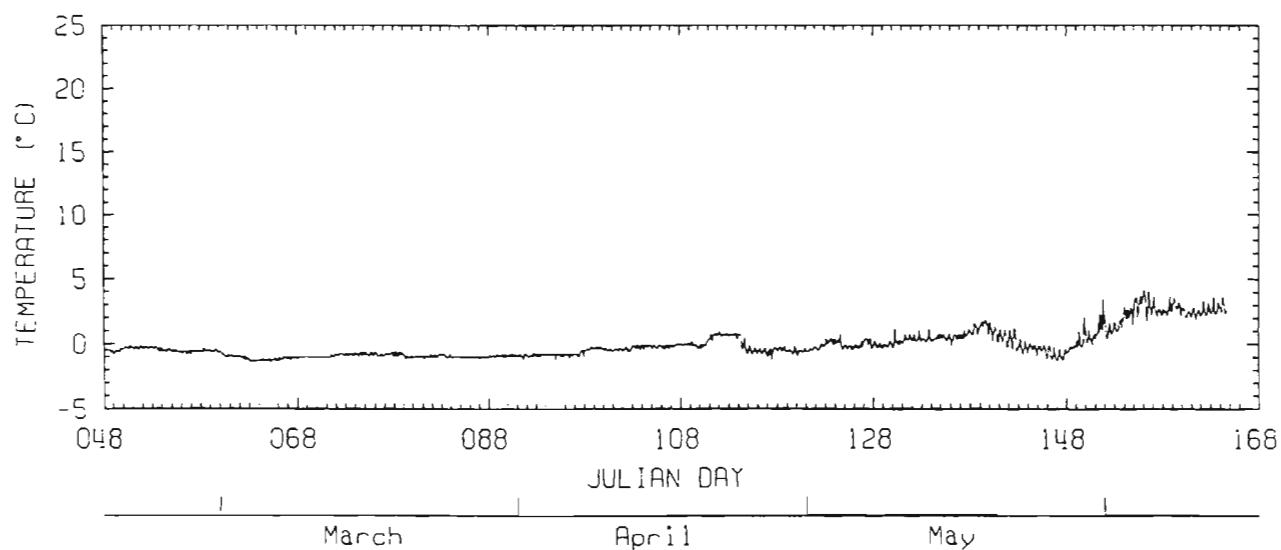
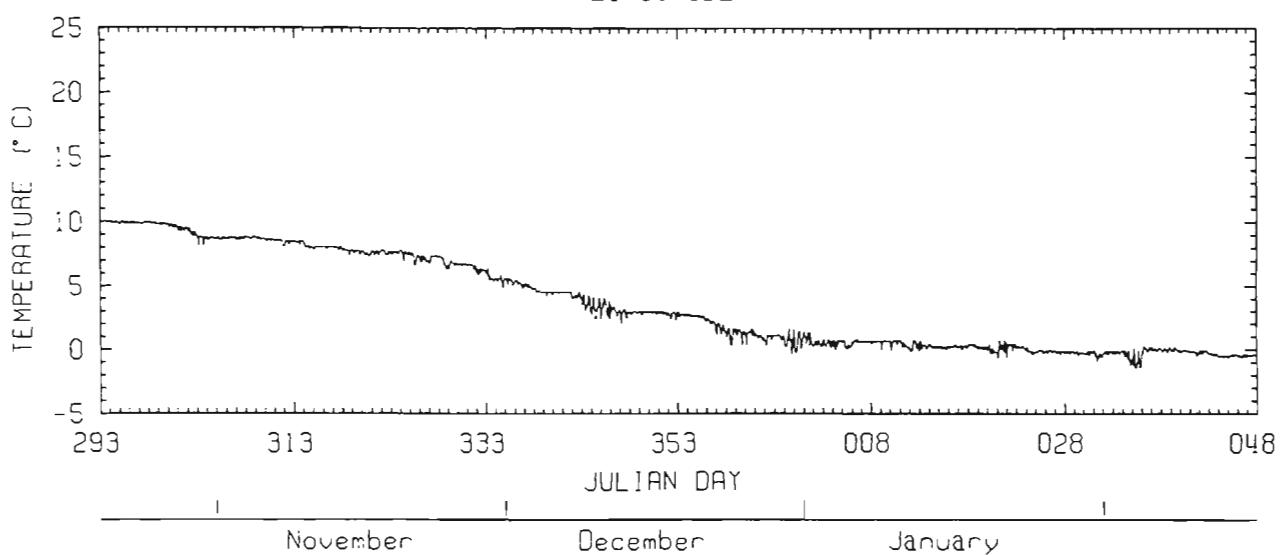
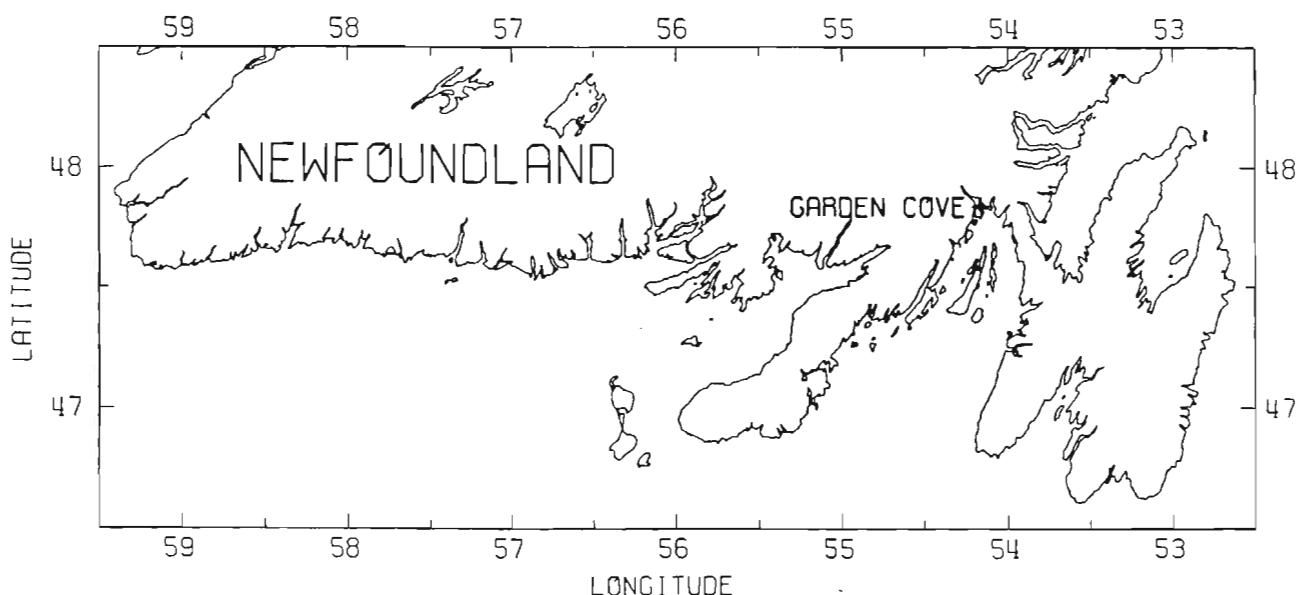
THERMOGRAPH DATA SUMMARY

STATION NAME: GARDEN COVE
STATION NUMBER: 137
INSTRUMENT TYPE: Ryan TempMentor
INSTRUMENT S/N: 900287
LATITUDE: 47.84° N
LONGITUDE: 54.16° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 10 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 20-OCT-1989 16:00 GMT
RECOVERY DATE/TIME: 13-JUN-1990 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
OCT-1989	8.10	303	10.10	293	9.57	0.48	115.1	67.1	272
NOV-1989	4.90	334	8.90	305	7.65	0.89	229.4	109.4	720
DEC-1989	-0.30	364	5.60	335	2.85	1.46	88.4	6.2	744
JAN-1990	-1.00	31	1.40	1	0.22	0.37	8.6	0.0	744
FEB-1990	-1.50	35	0.30	37	-0.38	0.27	0.0	0.0	672
MAR-1990	-1.40	65	-0.60	60	-0.97	0.15	0.0	0.0	744
APR-1990	-1.30	91	1.00	112	-0.35	0.46	1.9	0.0	720
MAY-1990	-1.30	147	3.60	151	0.19	0.64	10.1	0.0	744
JUN-1990	0.40	152	4.10	156	2.48	0.71	32.4	0.0	304
Total Period	-1.50	35	10.10	293	1.77	3.28	485.9	182.7	5664

244



Start: 20-OCT-1989

End: 13-JUN-1990

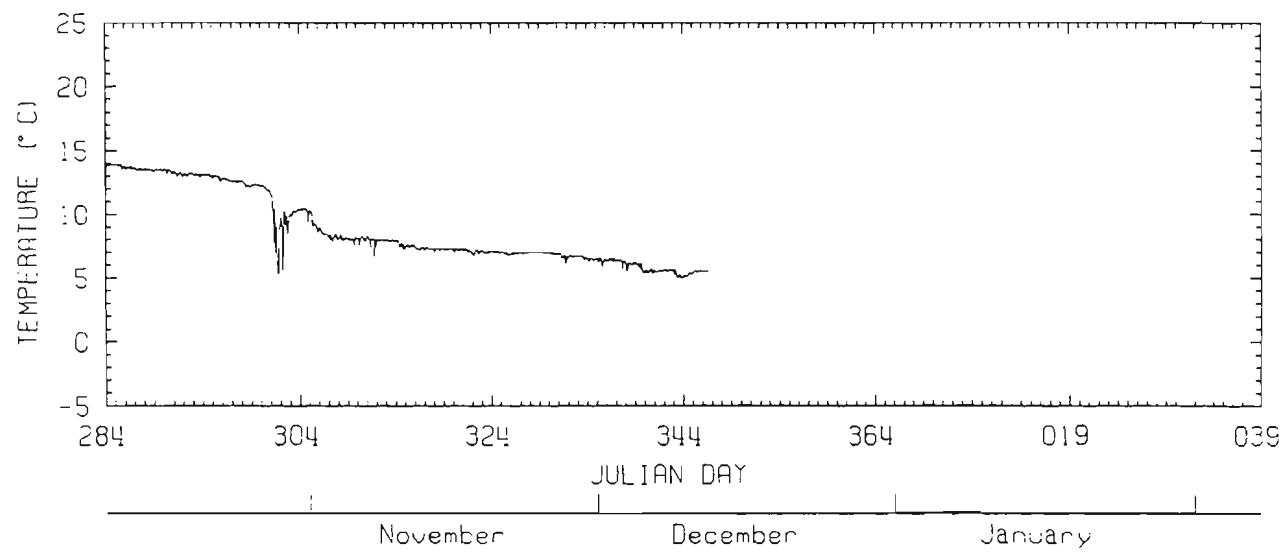
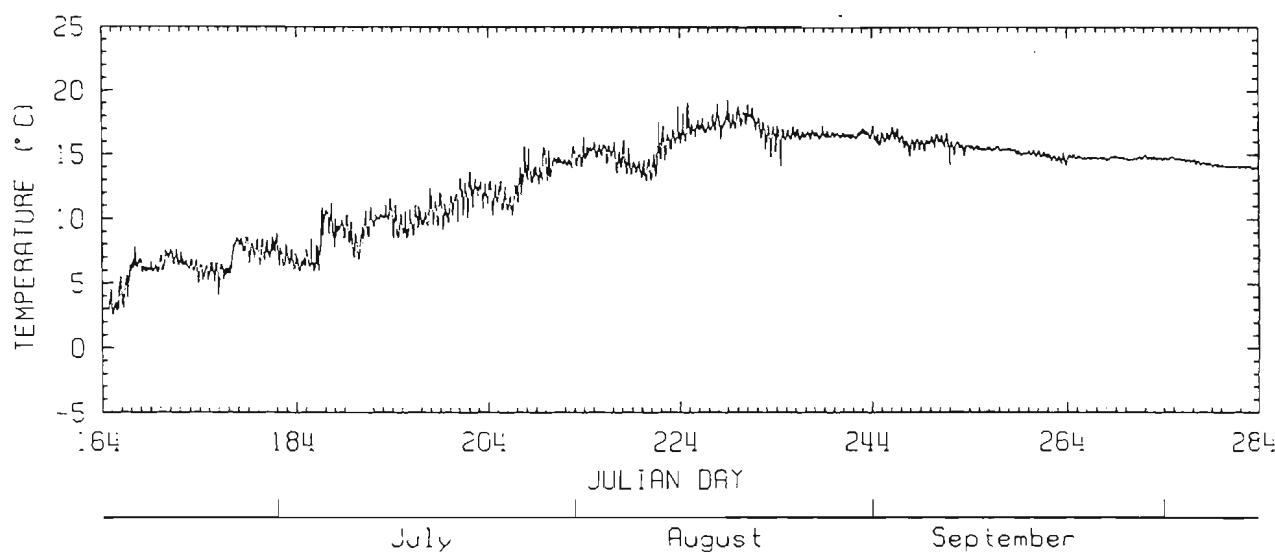
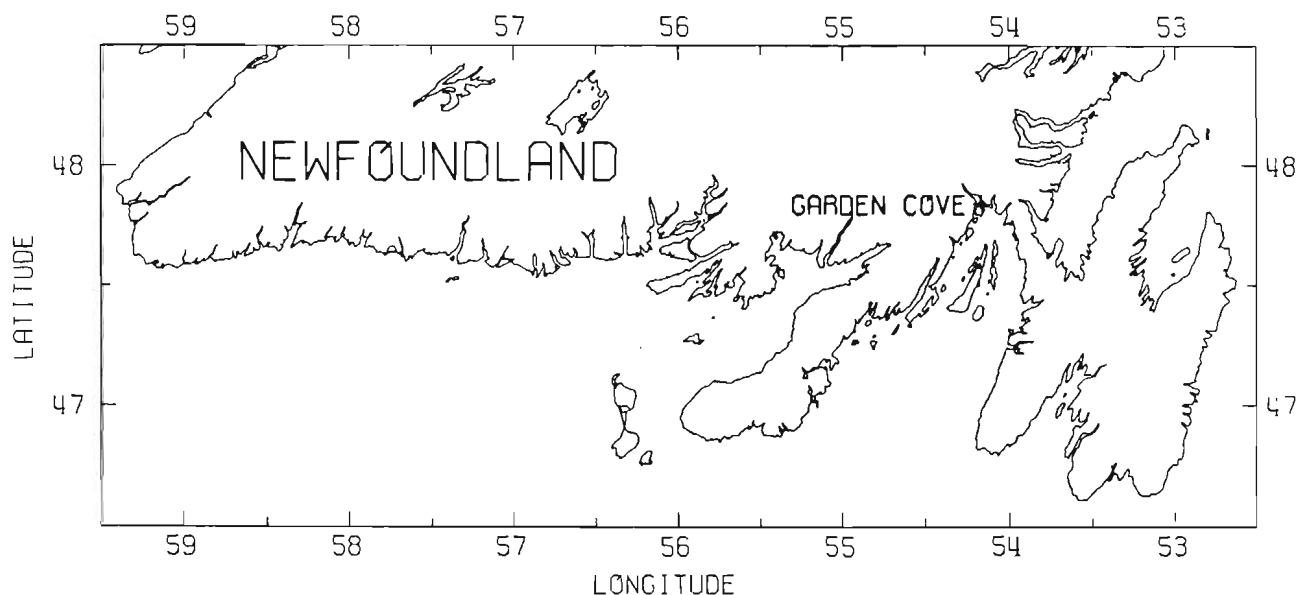
THERMOGRAPH DATA SUMMARY

STATION NAME: GARDEN COVE
STATION NUMBER: 137
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5475
LATITUDE: 47.84° N
LONGITUDE: 54.16° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 13-JUN-1990 17:00 GMT
RECOVERY DATE/TIME: 16-DEC-1990 07:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-1990	2.50	165	8.90	181	6.43	1.27	113.9	42.5	415
JUL-1990	5.90	184	15.70	207	10.58	2.38	327.9	203.9	744
AUG-1990	12.90	220	19.30	229	16.24	1.25	503.3	379.3	744
SEP-1990	14.10	263	17.40	244	15.32	0.64	459.7	339.7	720
OCT-1990	5.30	301	14.80	274	13.02	1.60	403.7	279.7	744
NOV-1990	6.10	331	10.30	305	7.40	0.67	221.9	101.9	720
DEC-1990	4.00	349	6.60	335	5.61	0.49	89.3	25.3	368
Total Period	2.50	165	19.30	229	11.39	4.07	2119.8	1372.4	4455

246



Start: 13-JUN-1990

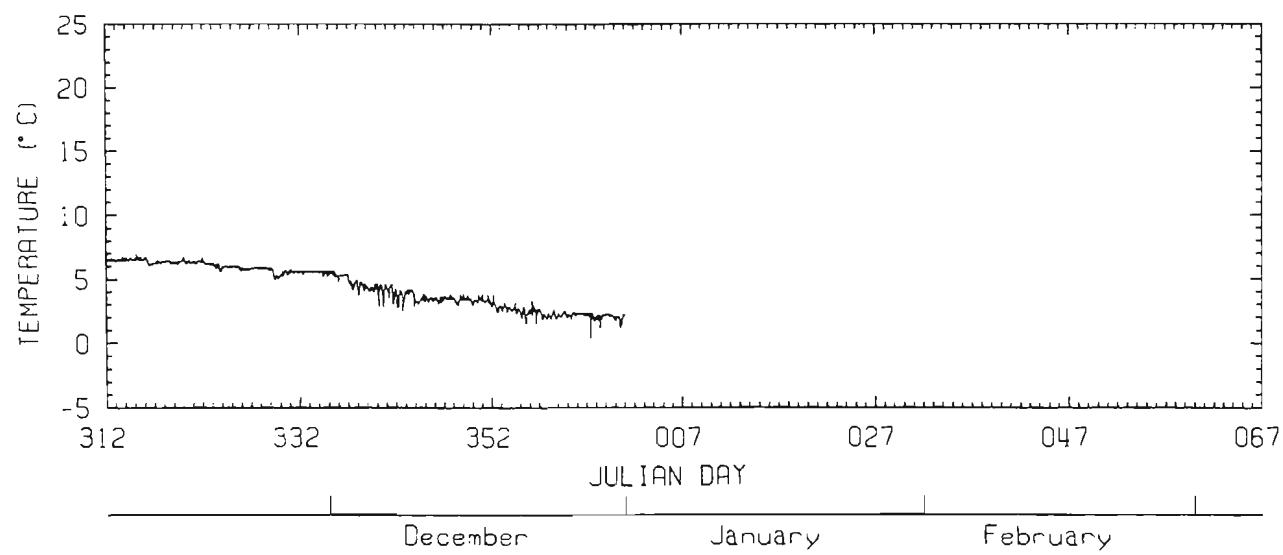
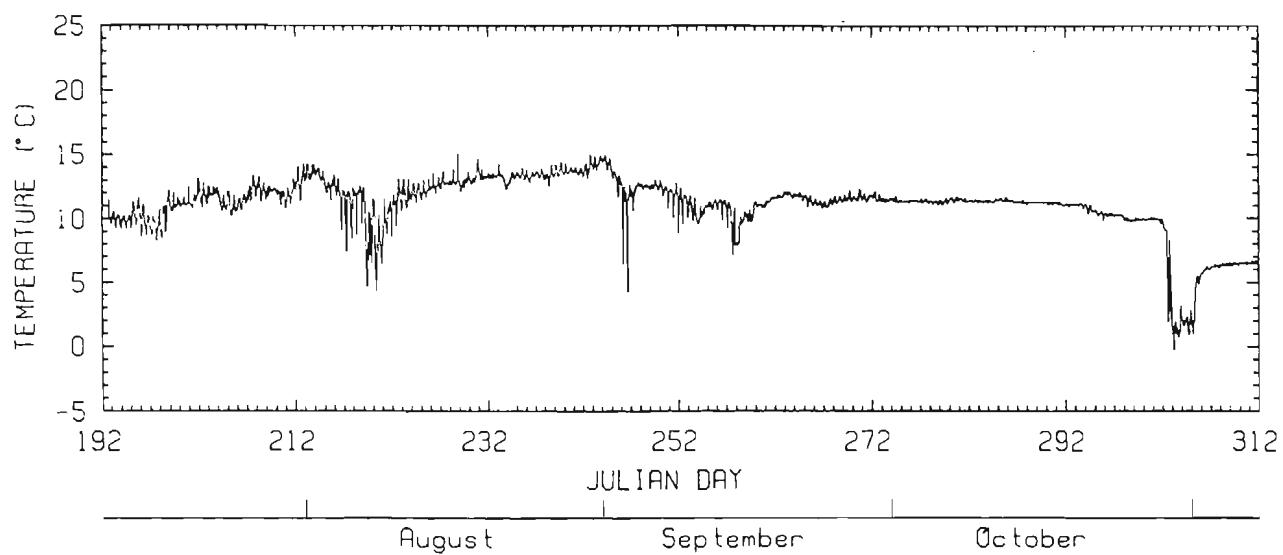
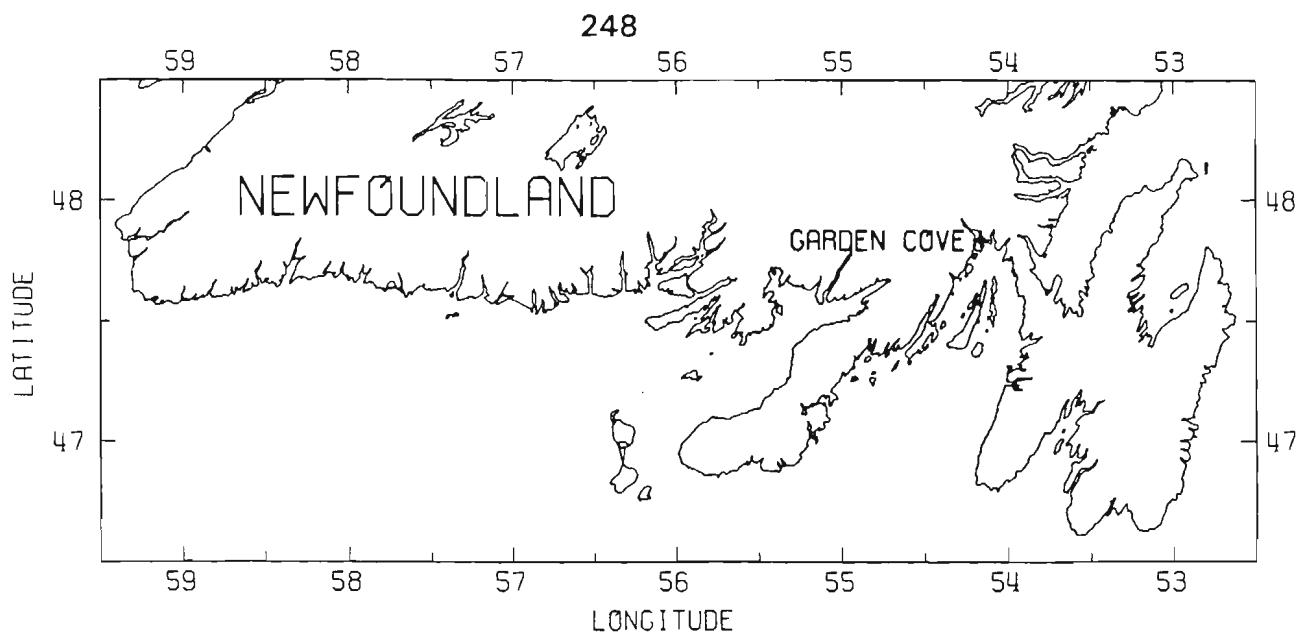
End: 12-DEC-1990

THERMOGRAPH DATA SUMMARY

STATION NAME: GARDEN COVE
STATION NUMBER: 137
INSTRUMENT TYPE: Ryan TempMentor
INSTRUMENT S/N: 900652
LATITUDE: 47.84° N
LONGITUDE: 54.16° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 10 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 11-JUL-1991 17:24 GMT
RECOVERY DATE/TIME: 31-DEC-1991 23:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUL-1991	8.20	197	14.30	212	11.16	1.13	233.7	149.7	487
AUG-1991	4.30	220	15.10	228	12.54	1.61	388.9	264.9	744
SEP-1991	4.20	246	15.00	244	11.48	1.19	344.5	224.5	720
OCT-1991	-0.20	303	11.80	274	10.25	2.51	317.6	198.4	744
NOV-1991	1.00	305	7.00	315	6.01	0.65	180.2	60.4	720
DEC-1991	0.30	362	5.70	335	3.15	1.01	97.6	3.9	744
Total Period	-0.20	303	15.10	228	8.98	3.75	1562.5	901.8	4159



Start: 11-JUL-1991

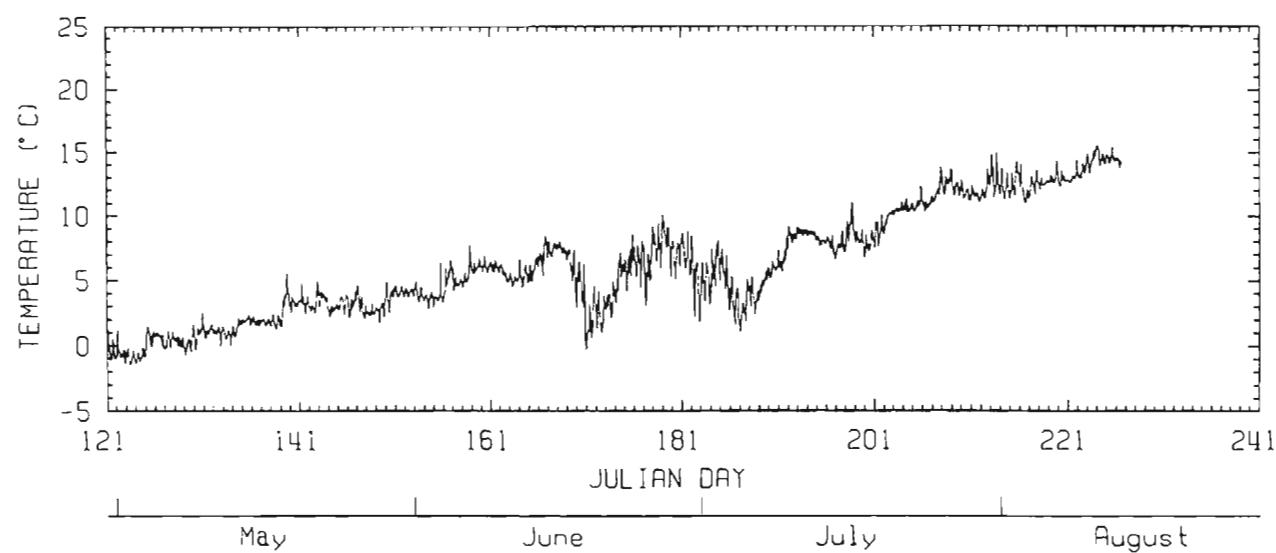
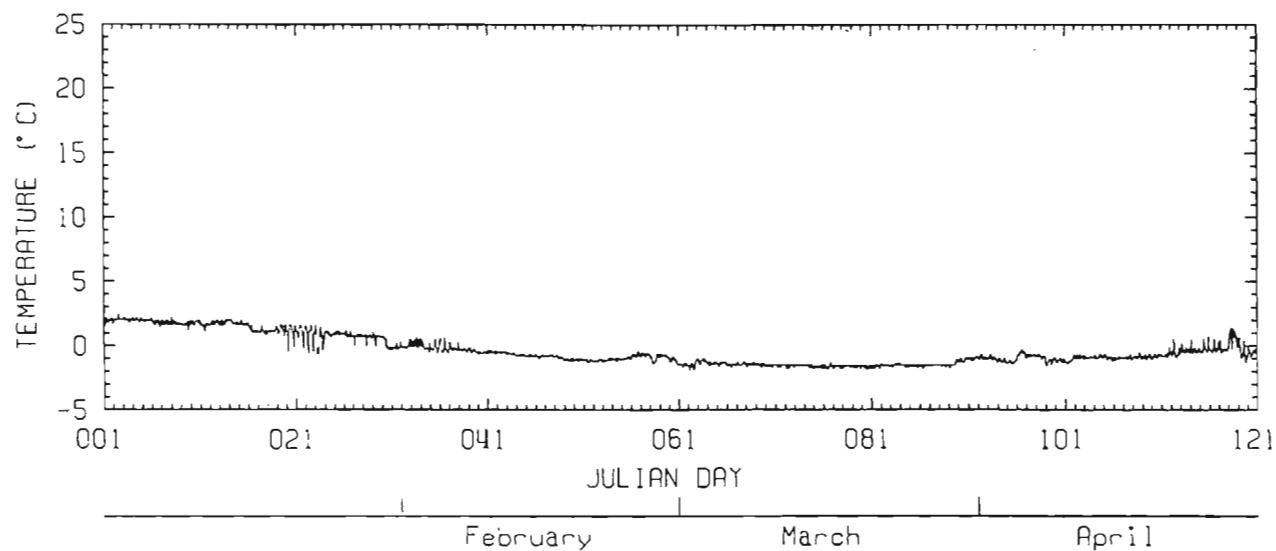
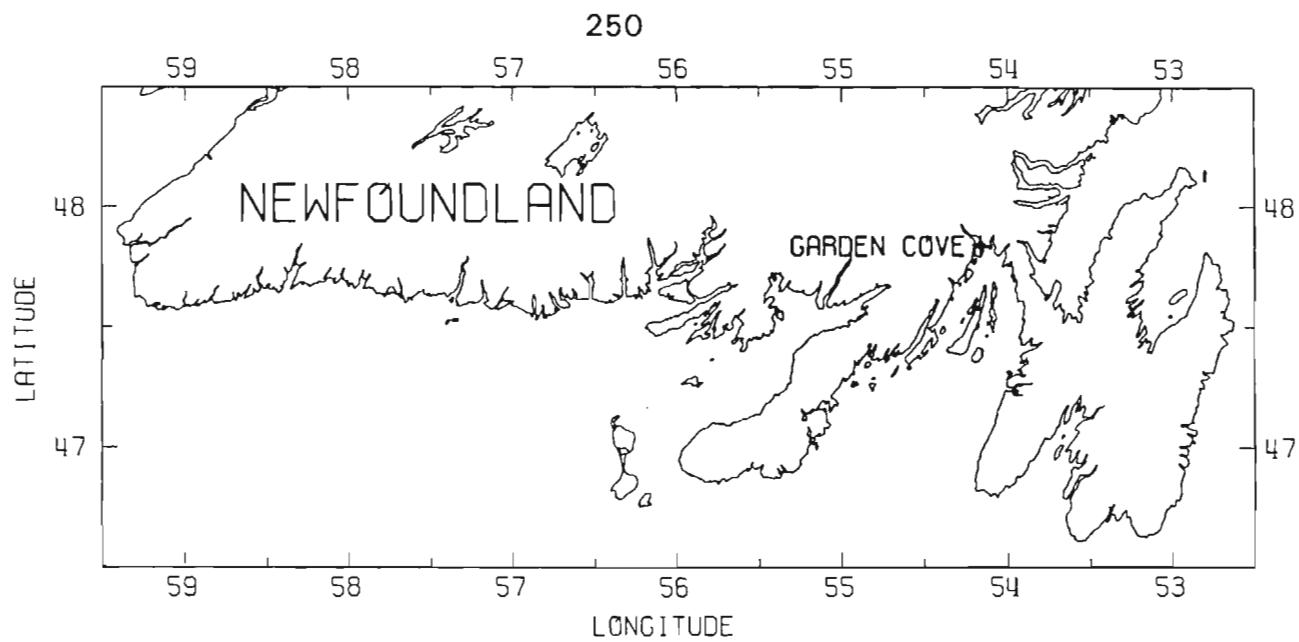
End: 31-DEC-1991

THERMOGRAPH DATA SUMMARY

STATION NAME: GARDEN COVE
STATION NUMBER: 137
INSTRUMENT TYPE: Ryan TempMentor
INSTRUMENT S/N: 900655
LATITUDE: 47.84° N
LONGITUDE: 54.16° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 10 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 1-JAN-1992 00:00 GMT
RECOVERY DATE/TIME: 13-AUG-1992 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JAN-1992	-0.70	23	2.50	2	1.29	0.65	40.0	0.0	744
FEB-1992	-1.50	60	0.70	33	-0.67	0.42	0.2	0.0	696
MAR-1992	-1.90	62	-0.90	62	-1.50	0.18	0.0	0.0	744
APR-1992	-1.60	99	1.40	118	-0.72	0.47	0.7	0.0	720
MAY-1992	-1.50	123	5.60	139	1.88	1.54	60.7	0.1	744
JUN-1992	-0.30	170	10.10	179	5.52	1.79	165.6	50.5	720
JUL-1992	1.10	187	15.00	213	8.53	2.93	264.4	142.3	744
AUG-1992	11.10	216	15.60	224	13.22	1.04	172.2	120.2	304
Total Period	-1.90	62	15.60	224	2.70	4.45	703.8	313.1	5416



Start: 1-JAN-1992

End: 13-AUG-1992

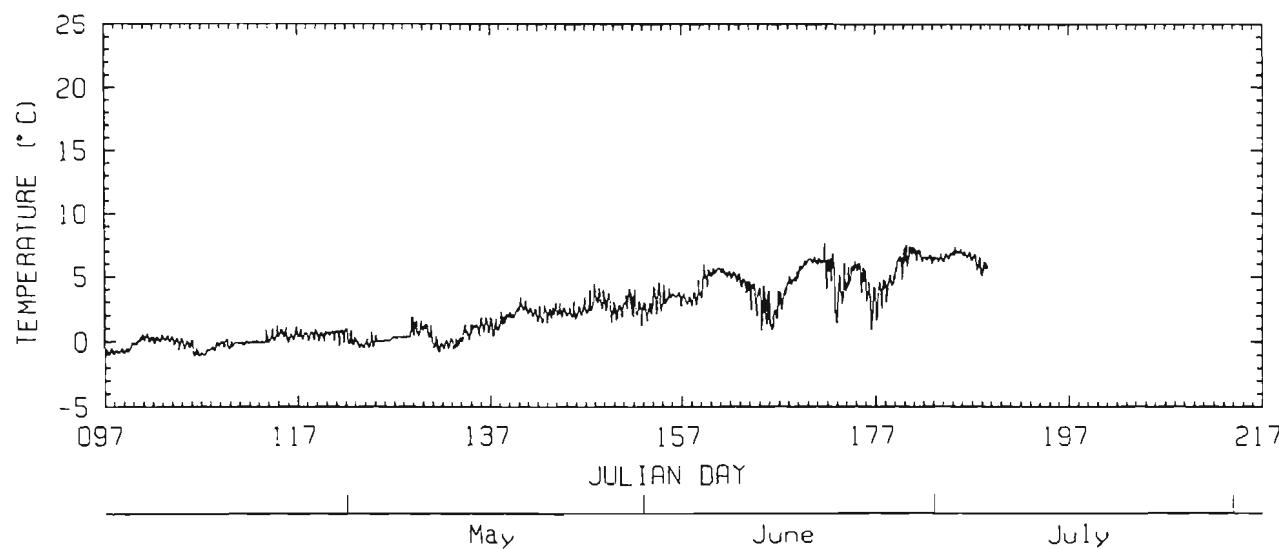
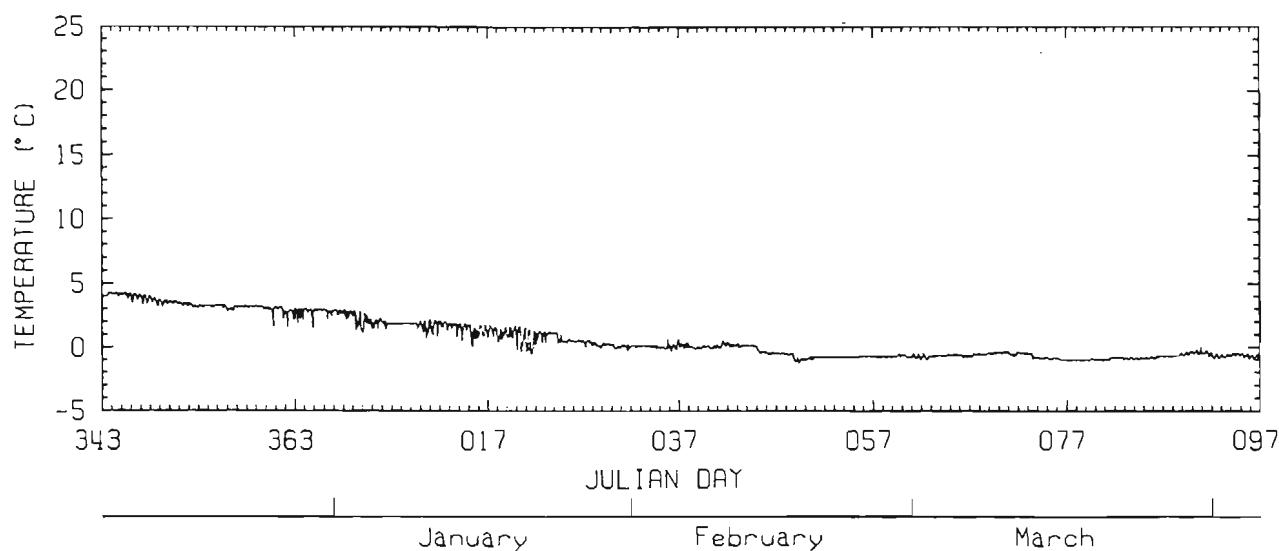
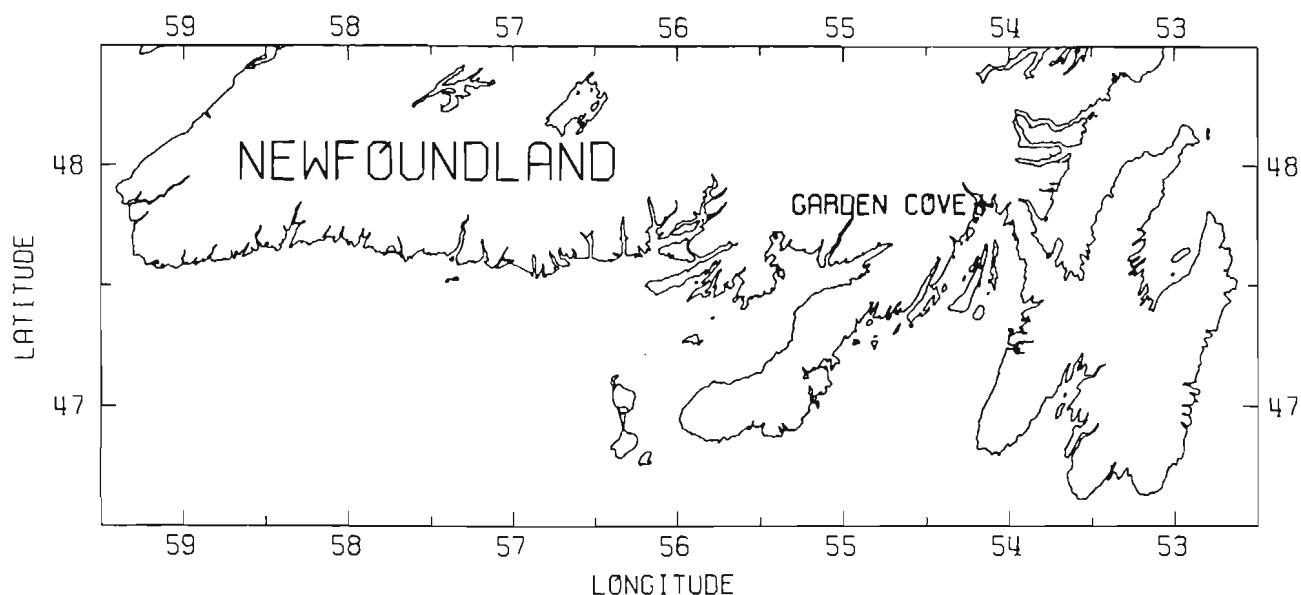
THERMOGRAPH DATA SUMMARY

STATION NAME: GARDEN COVE
STATION NUMBER: 137
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 6743
LATITUDE: 47.84° N
LONGITUDE: 54.16° W
INSTRUMENT DEPTH: 8 m
WATER DEPTH: 10 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 8-DEC-1992 16:00 GMT
RECOVERY DATE/TIME: 7-JUL-1993 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
DEC-1992	1.45	364	4.25	343	3.28	0.48	79.4	0.5	560
JAN-1993	-0.55	21	2.90	1	1.26	0.80	38.9	0.0	744
FEB-1993	-1.25	49	0.75	36	-0.34	0.44	1.3	0.0	672
MAR-1993	-1.05	76	-0.05	90	-0.74	0.19	0.0	0.0	744
APR-1993	-1.10	106	1.25	114	-0.16	0.52	4.0	0.0	720
MAY-1993	-0.85	131	4.50	147	1.32	1.19	42.1	0.0	744
JUN-1993	0.85	165	7.60	171	4.36	1.50	130.8	23.1	720
JUL-1993	5.00	188	7.35	185	6.43	0.42	44.7	16.7	160
Total Period	-1.25	49	7.60	171	1.39	2.14	341.2	40.3	5064

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Start: 8-DEC-1992

End: 7-JUL-1993

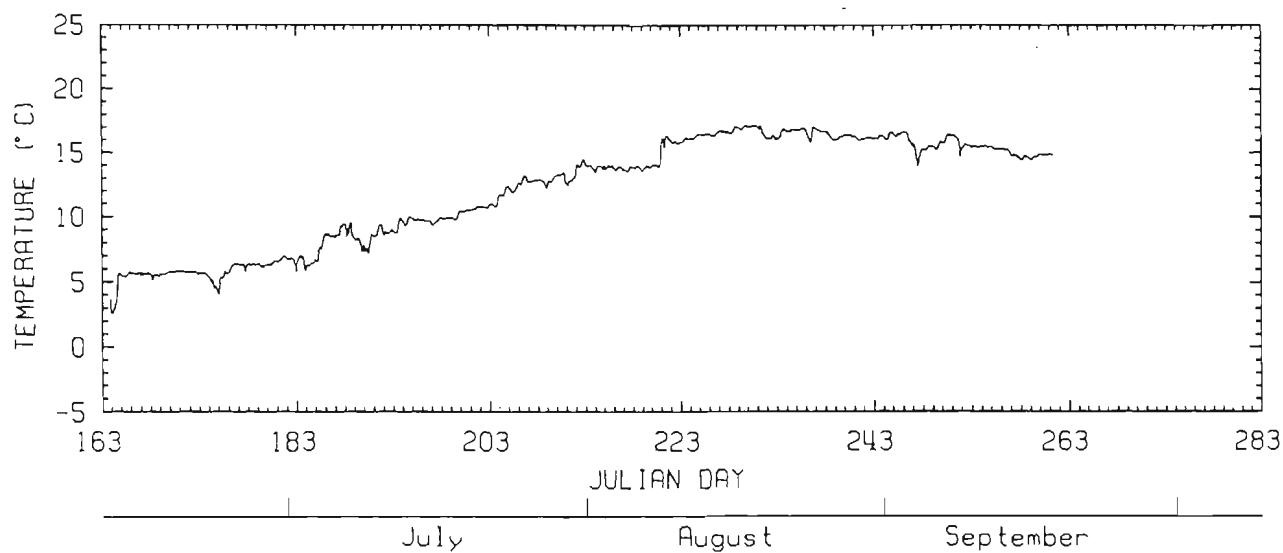
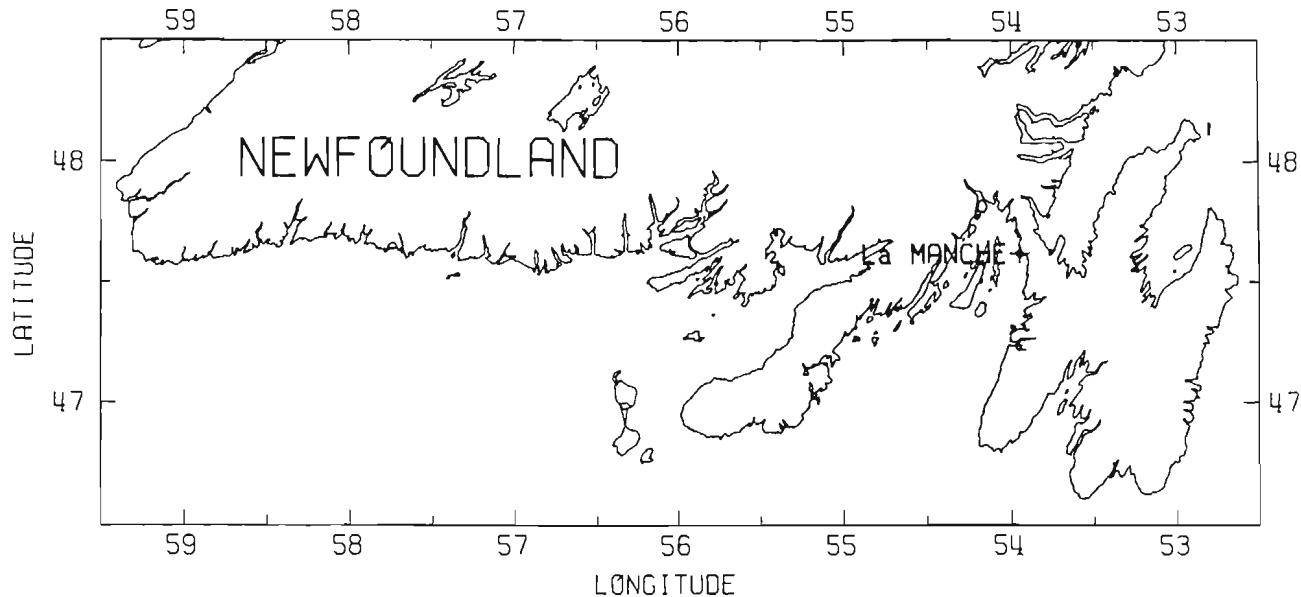
THERMOGRAPH DATA SUMMARY

STATION NAME: LA MANCHE
STATION NUMBER: 104
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 61654
LATITUDE: 47.62° N
LONGITUDE: 53.95° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 33 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 12-JUN-1990 21:30 GMT
RECOVERY DATE/TIME: 18-SEP-1990 09:28 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1990	2.60	164	7.06	181	5.55	0.86	106.1	30.9	139
JUL-1990	5.80	182	14.52	212	10.07	2.19	312.9	188.9	308
AUG-1990	13.46	214	17.19	230	15.71	1.19	489.4	365.4	322
SEP-1990	13.86	247	16.64	244	15.42	0.65	277.2	205.2	163
Total Period	2.60	164	17.19	230	12.28	4.05	1185.5	790.3	932

254



Start: 12-JUN-1990

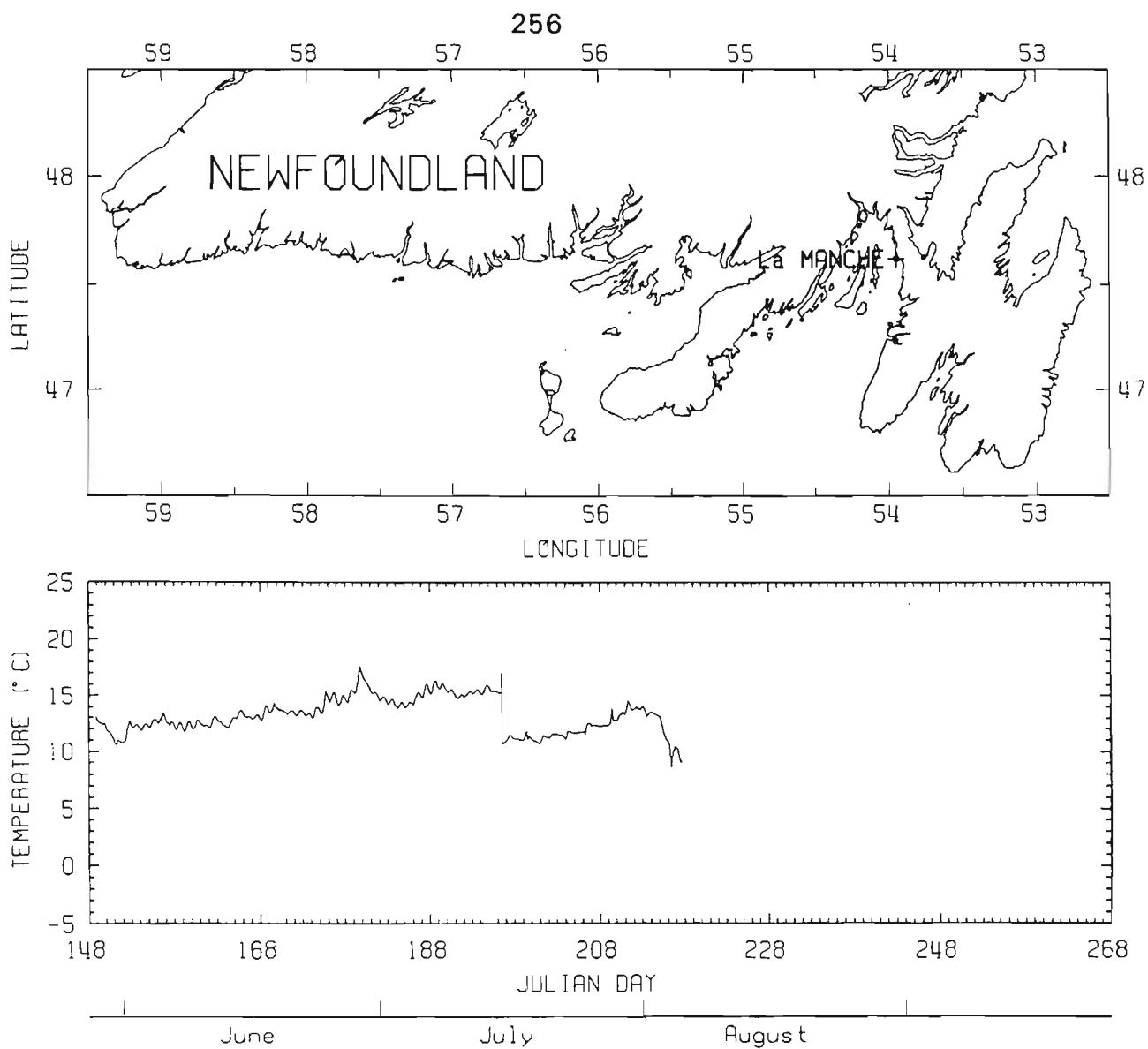
End: 18-SEP-1990

THERMOGRAPH DATA SUMMARY

STATION NAME: LA MANCHE
STATION NUMBER: 104
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 63800
LATITUDE: 47.62° N
LONGITUDE: 53.95° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 33 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 28-MAY-1991 21:00 GMT
RECOVERY DATE/TIME: 5-AUG-1991 16:39 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1991	10.57	151	13.07	148	11.71	0.84	47.9	31.9	15
JUN-1991	10.73	152	17.68	179	13.23	1.23	401.1	281.1	150
JUL-1991	10.62	196	17.01	196	13.62	1.75	417.2	293.2	143
AUG-1991	8.54	216	14.10	213	11.35	1.72	58.6	38.6	28
Total Period	8.54	216	17.68	179	13.17	1.65	924.8	644.8	336



Start: 28-MAY-1991

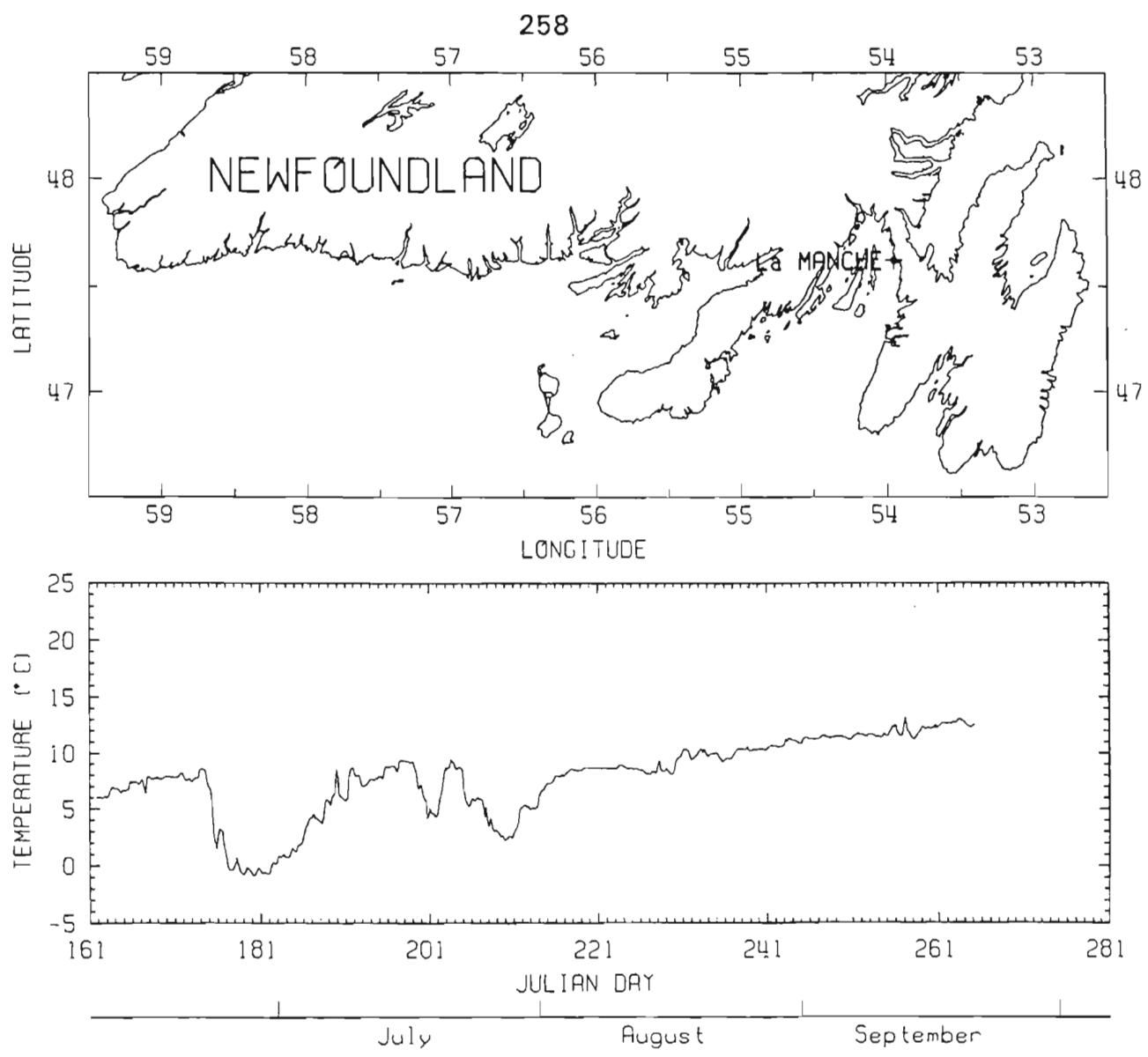
End: 5-AUG-1991

THERMOGRAPH DATA SUMMARY

STATION NAME: La MANCHE
STATION NUMBER: 104
INSTRUMENT TYPE: Ryan Thermograph (J-90)
INSTRUMENT S/N: 62584
LATITUDE: 47.62° N
LONGITUDE: 53.95° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 18 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 9-JUN-1992 18:14 GMT
RECOVERY DATE/TIME: 21-SEP-1992 10:12 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-1992	-0.89	180	8.54	174	4.81	3.48	108.0	45.5	129
JUL-1992	0.75	183	9.49	203	5.68	2.48	176.6	64.9	189
AUG-1992	6.28	214	11.34	243	9.24	1.09	286.6	162.6	189
SEP-1992	10.85	245	13.24	257	11.90	0.54	250.3	166.3	125
Total Period	-0.89	180	13.24	257	7.80	3.44	821.5	439.2	632



Start: 9-JUN-1992

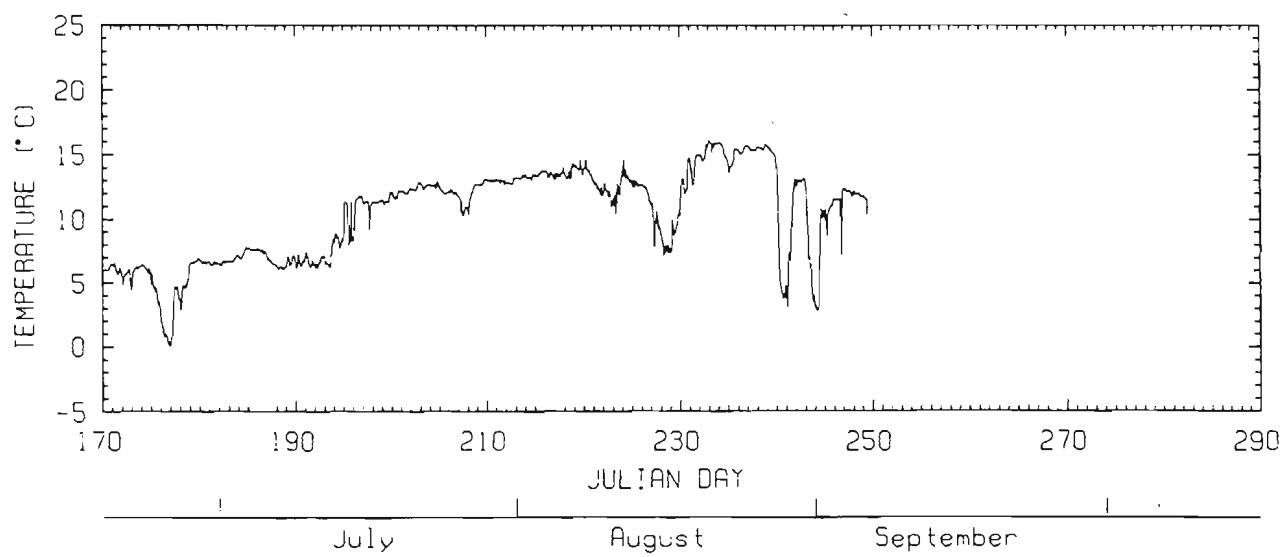
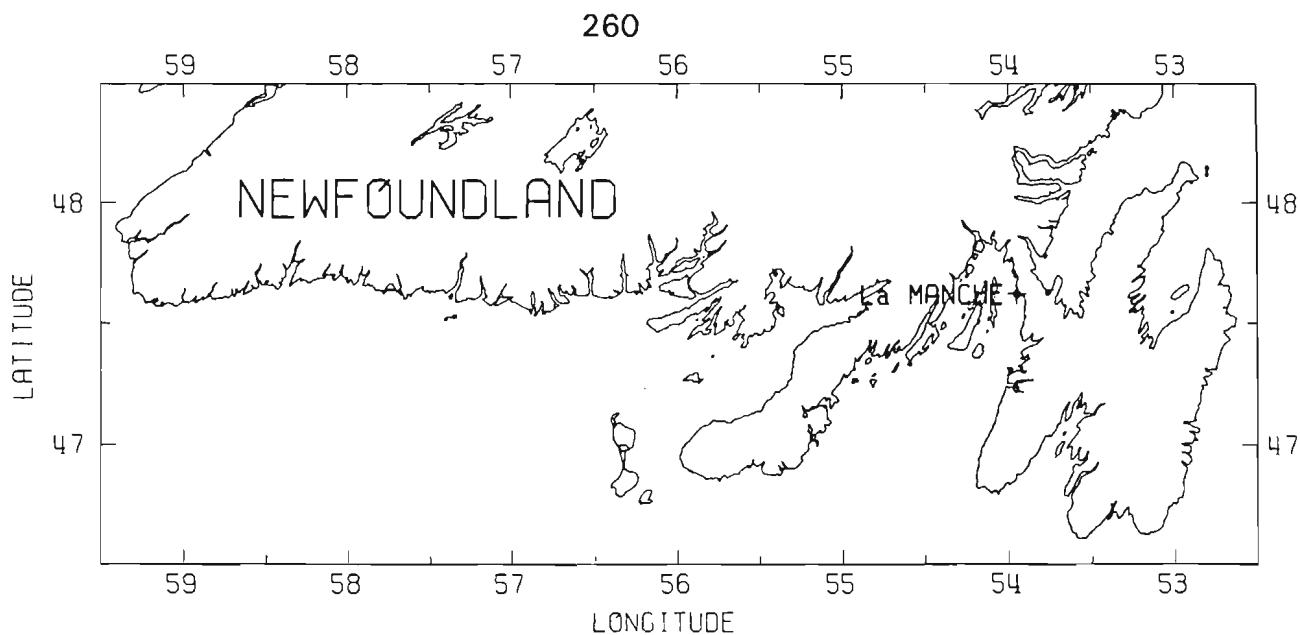
End: 21-SEP-1992

THERMOGRAPH DATA SUMMARY

STATION NAME: La MANCHE
STATION NUMBER: 104
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5454
LATITUDE: 47.62° N
LONGITUDE: 53.95° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 30 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 19-JUN-1993 15:00 GMT
RECOVERY DATE/TIME: 6-SEP-1993 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-1993	0.00	176	6.90	179	5.19	1.81	63.0	18.9	273
JUL-1993	6.10	188	13.30	212	9.88	2.59	306.2	182.2	744
AUG-1993	3.10	241	16.10	233	12.71	2.77	394.0	270.1	744
SEP-1993	2.80	244	12.40	247	10.60	2.49	64.0	40.0	133
Total Period	0.00	176	16.10	233	10.37	3.56	827.2	511.1	1894



Start: 19-JUN-1993

End: 6-SEP-1993

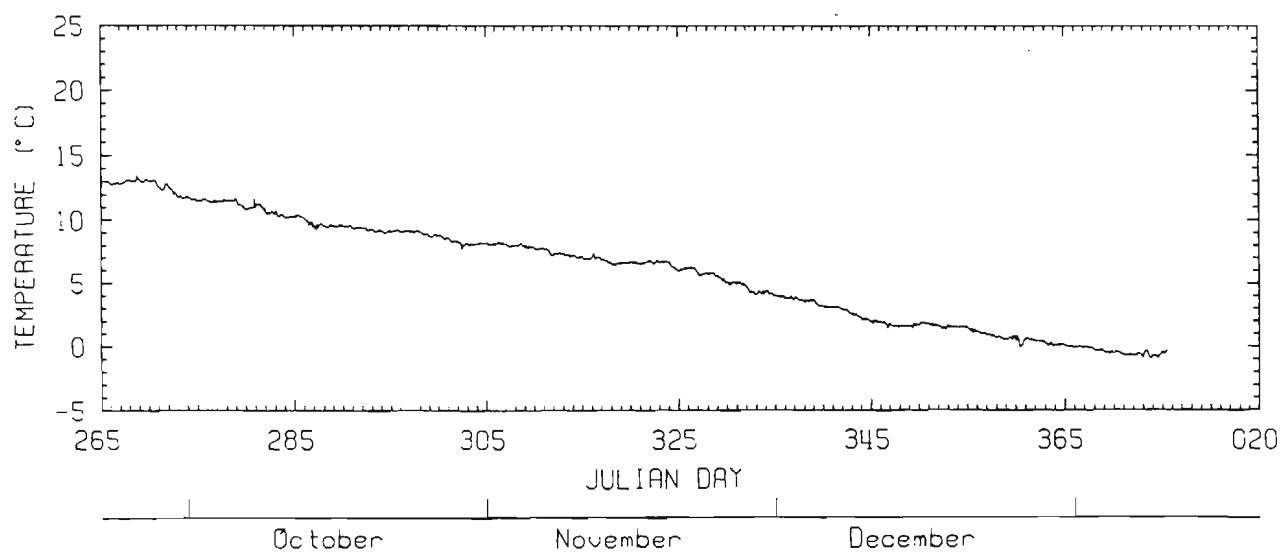
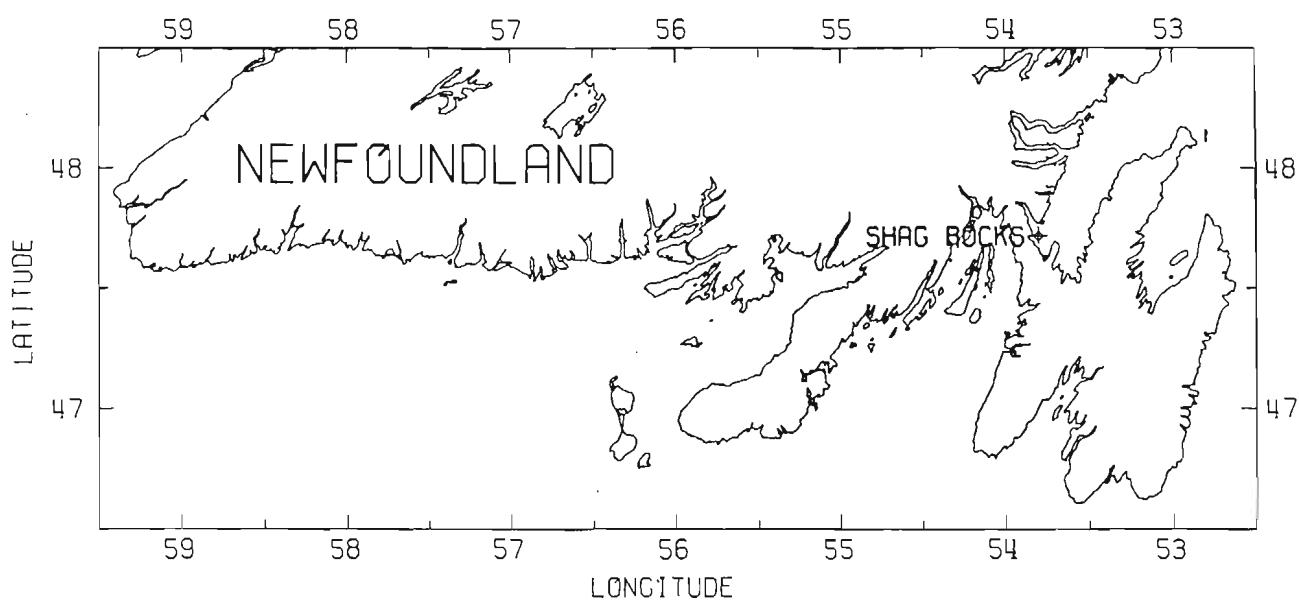
THERMOGRAPH DATA SUMMARY

STATION NAME: SHAG ROCKS
STATION NUMBER: 111
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3260
LATITUDE: 47.72° N
LONGITUDE: 53.80° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 10 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 22-SEP-1989 14:00 GMT
RECOVERY DATE/TIME: 10-JAN-1990 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
SEP-1989	11.70	273	13.40	268	12.70	0.44	114.4	78.4	202
OCT-1989	7.70	302	11.80	274	9.81	1.11	304.1	180.1	744
NOV-1989	4.00	334	8.30	306	6.54	1.15	196.1	76.1	720
DEC-1989	-0.10	365	4.00	335	1.76	1.17	54.6	0.0	744
JAN-1990	-1.00	8	0.00	1	-0.47	0.26	0.0	0.0	229
Total Period	-1.00	8	13.40	268	5.98	4.17	669.1	334.6	2639

262



Start: 22-SEP-1989

End: 10-JAN-1990

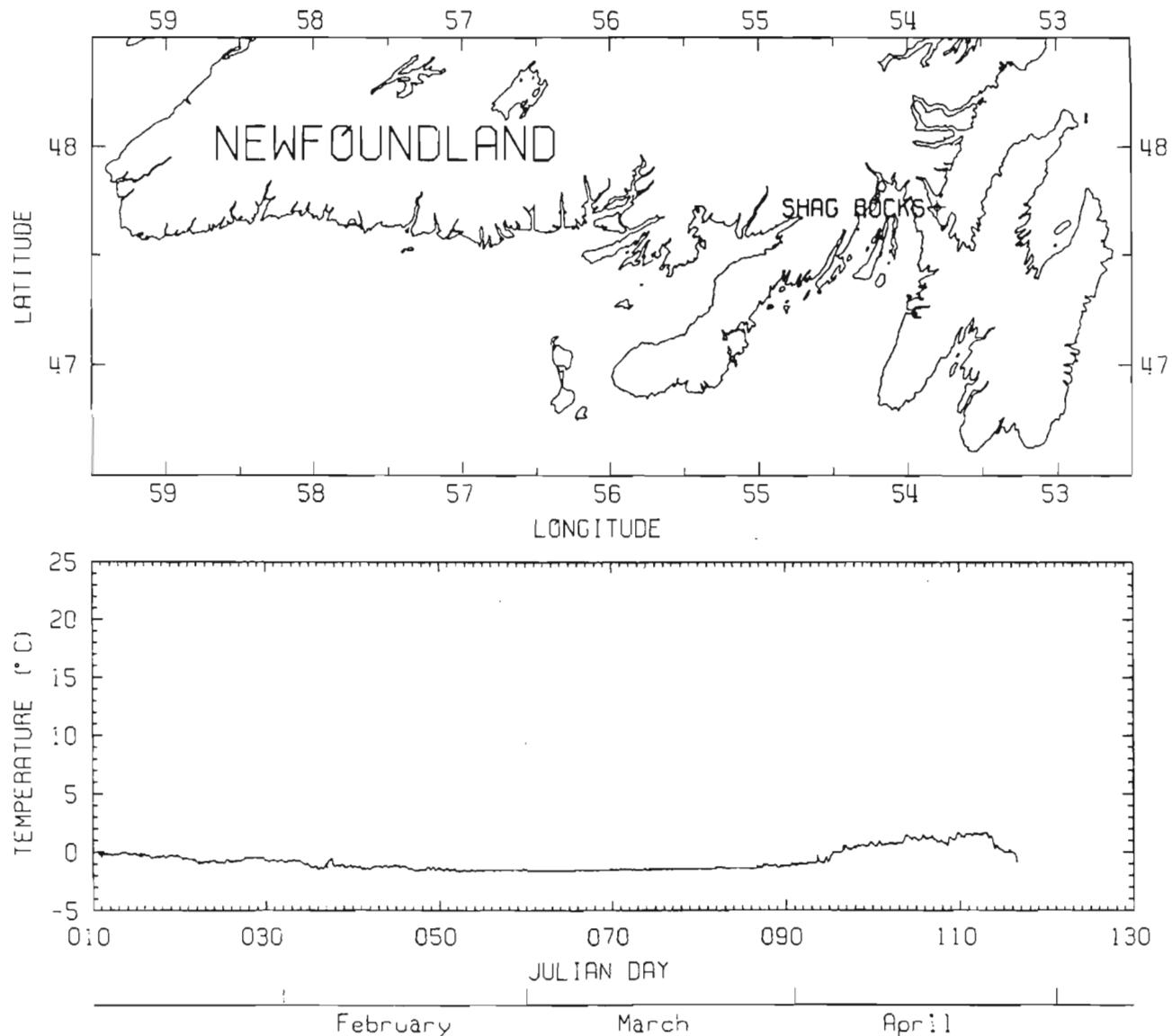
THERMOGRAPH DATA SUMMARY

STATION NAME: SHAG ROCKS
STATION NUMBER: 111
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3263
LATITUDE: 47.72° N
LONGITUDE: 53.80° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 10 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 10-JAN-1990 14:00 GMT
RECOVERY DATE/TIME: 26-APR-1990 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JAN-1990	-1.10	22	0.20	10	-0.49	0.26	0.0	0.0	514
FEB-1990	-1.70	52	-0.50	37	-1.31	0.26	0.0	0.0	672
MAR-1990	-1.70	60	-0.90	90	-1.42	0.15	0.0	0.0	744
APR-1990	-1.10	91	1.70	109	0.55	0.81	18.0	0.0	616
Total Period	-1.70	52	1.70	109	-0.73	0.91	18.0	0.0	2546

264



Start: 10-JAN-1990

End: 26-APR-1990

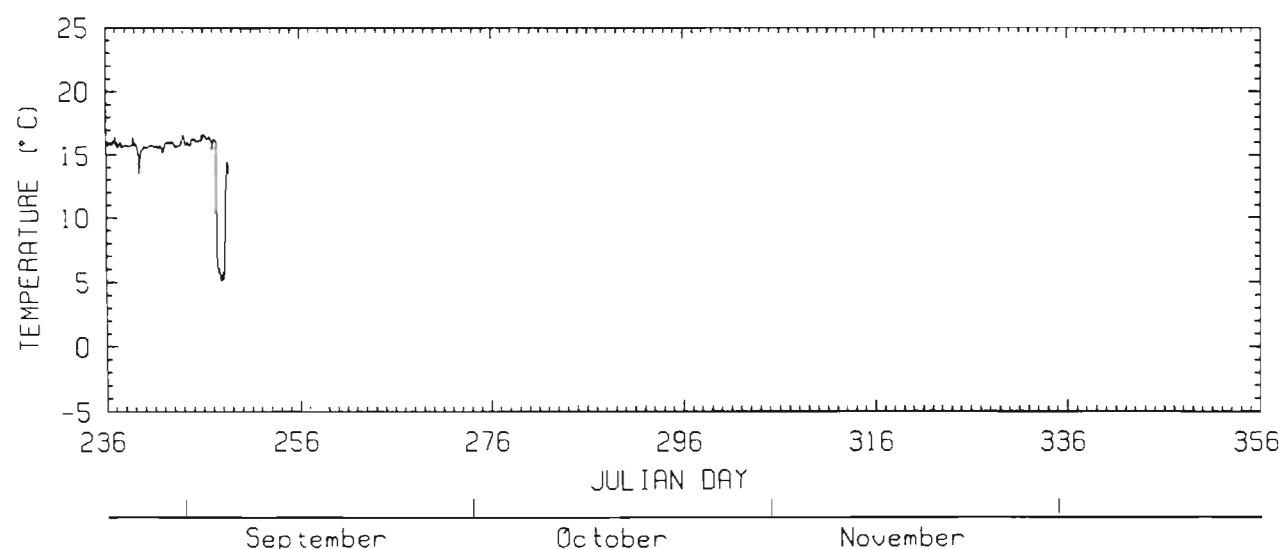
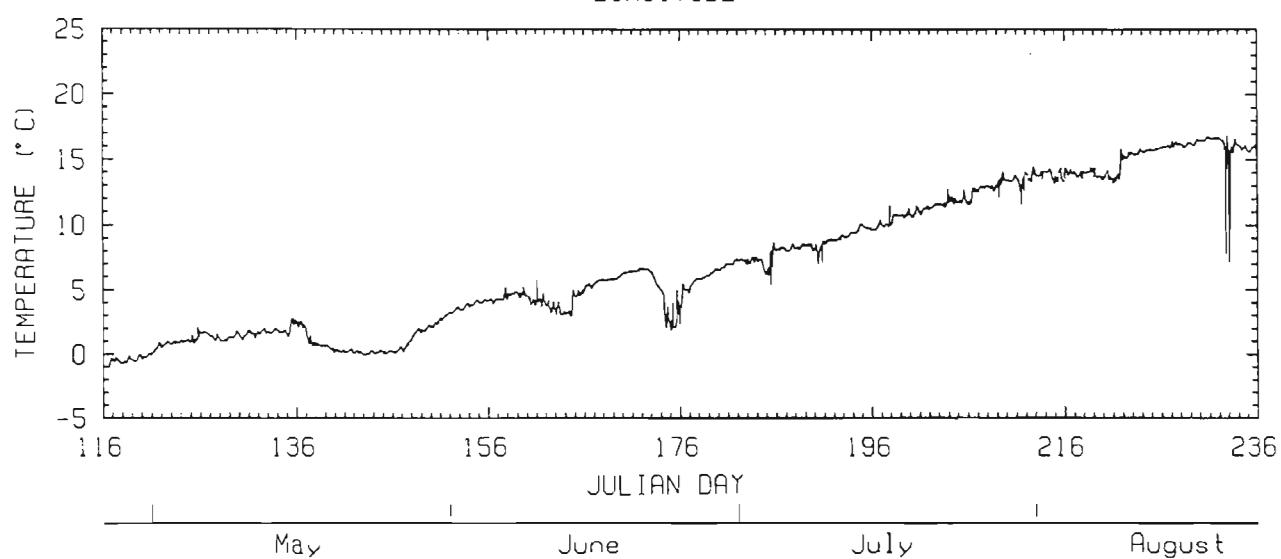
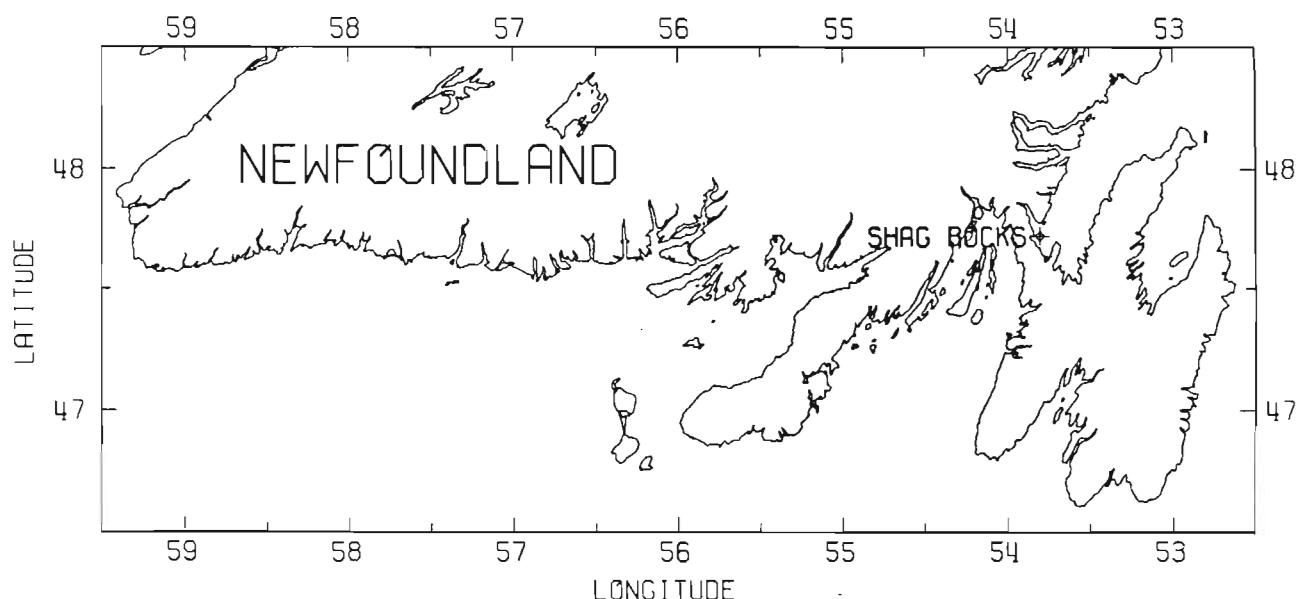
THERMOGRAPH DATA SUMMARY

STATION NAME: SHAG ROCKS
STATION NUMBER: 111
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5457
LATITUDE: 47.72° N
LONGITUDE: 53.80° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 10 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 26-APR-1990 16:00 GMT
RECOVERY DATE/TIME: 5-SEP-1990 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
APR-1990	-0.95	116	0.10	120	-0.38	0.23	0.0	0.0	104
MAY-1990	-0.05	121	3.20	151	1.16	0.78	35.8	0.0	744
JUN-1990	1.80	175	7.50	181	4.93	1.24	147.8	31.7	720
JUL-1990	5.30	185	14.45	212	10.28	2.08	318.7	194.7	744
AUG-1990	7.15	233	16.85	232	15.25	1.14	472.7	348.7	744
SEP-1990	5.00	247	16.60	245	14.00	4.01	68.7	48.7	112
Total Period	-0.95	116	16.85	232	7.87	5.71	1043.8	623.8	3168

266



Start: 26-APR-1990

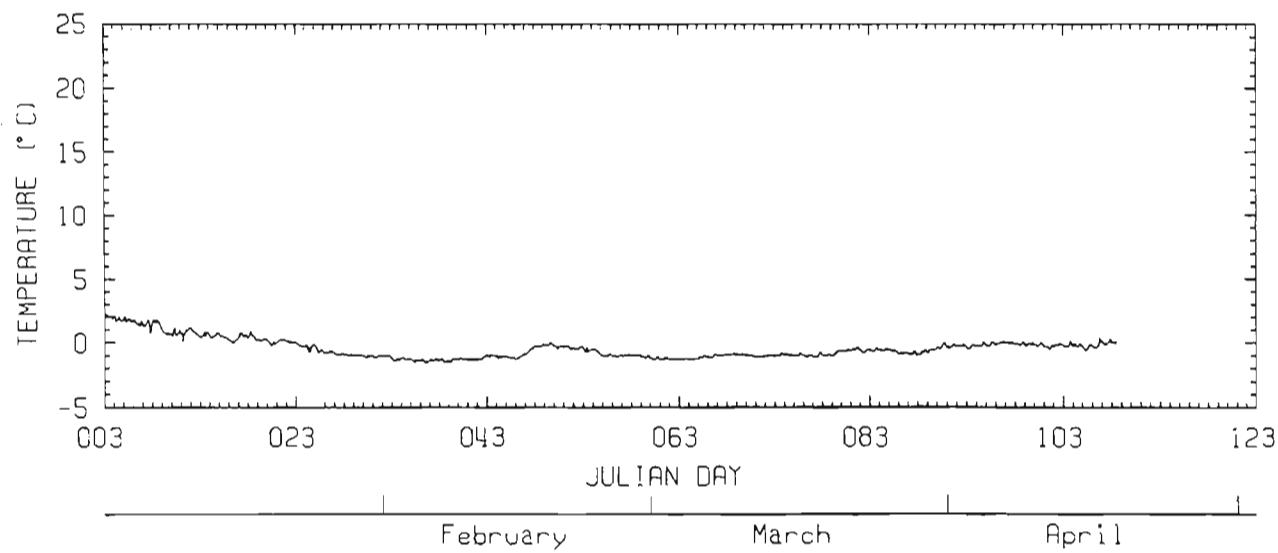
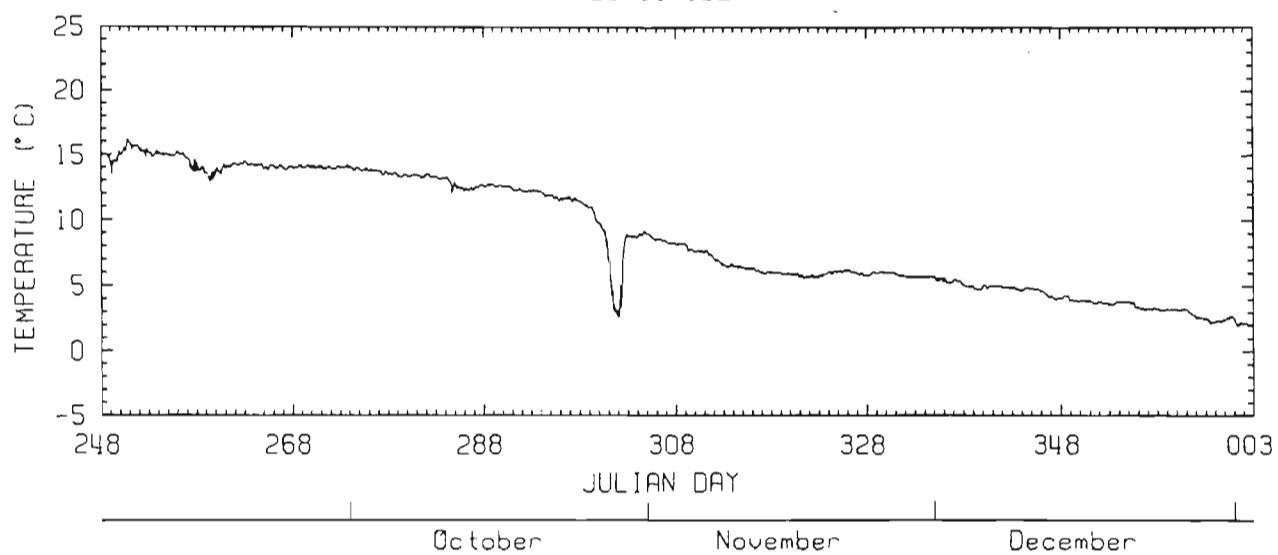
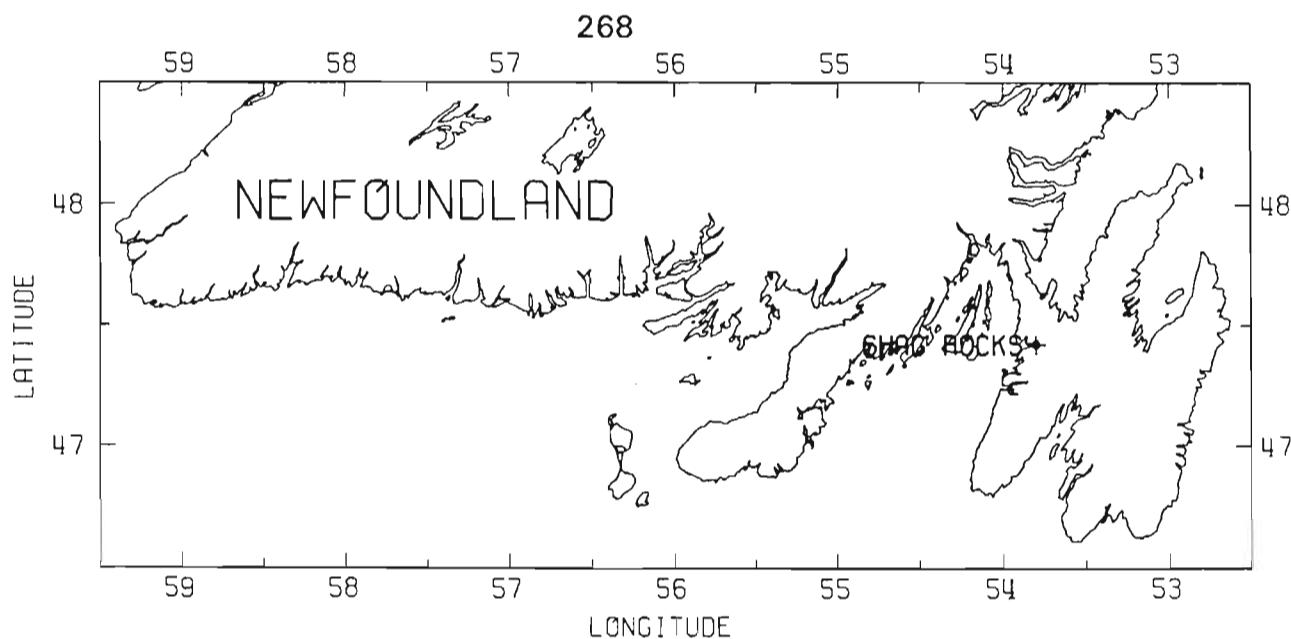
End: 5-SEP-1990

THERMOGRAPH DATA SUMMARY

STATION NAME: SHAG ROCKS, PLACENTIA BAY
STATION NUMBER: 111
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3267
LATITUDE: 47.42° N
LONGITUDE: 53.80° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 10 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 5-SEP-1990 15:00 GMT
RECOVERY DATE/TIME: 18-APR-1991 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
SEP-1990	12.90	259	16.20	250	14.38	0.58	374.1	270.1	609
OCT-1990	2.50	302	14.10	274	11.81	2.27	366.2	242.2	744
NOV-1990	5.60	321	9.00	305	6.52	0.94	195.5	75.5	720
DEC-1990	2.20	363	5.70	335	3.98	0.92	123.4	11.9	744
JAN-1991	-1.20	30	2.50	1	0.45	1.00	20.7	0.0	744
FEB-1991	-1.70	35	0.00	49	-0.98	0.39	0.0	0.0	672
MAR-1991	-1.40	61	0.00	90	-0.92	0.25	0.0	0.0	744
APR-1991	-0.60	105	0.40	106	-0.20	0.16	0.0	0.0	421
Total Period	-1.70	35	16.20	250	4.47	5.65	1080.0	599.7	5398



Start: 5-SEP-1990

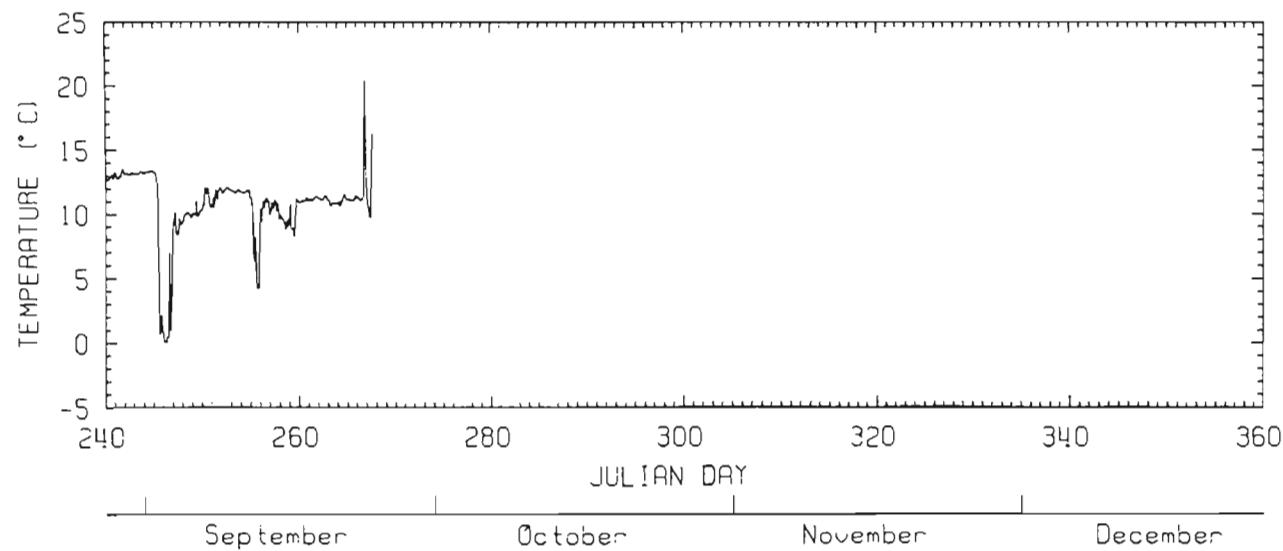
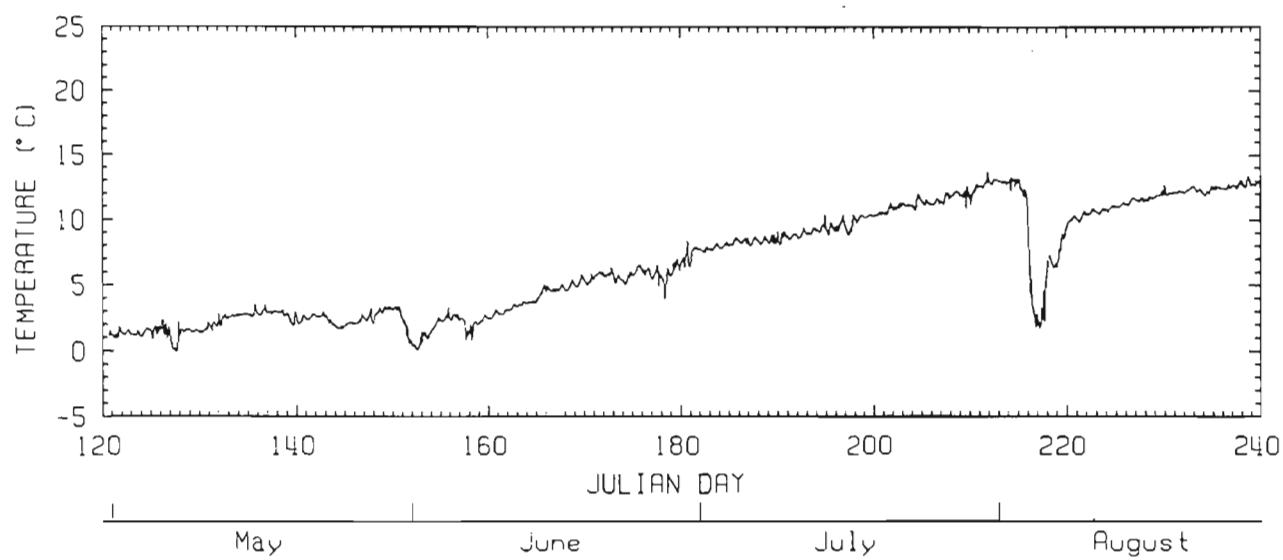
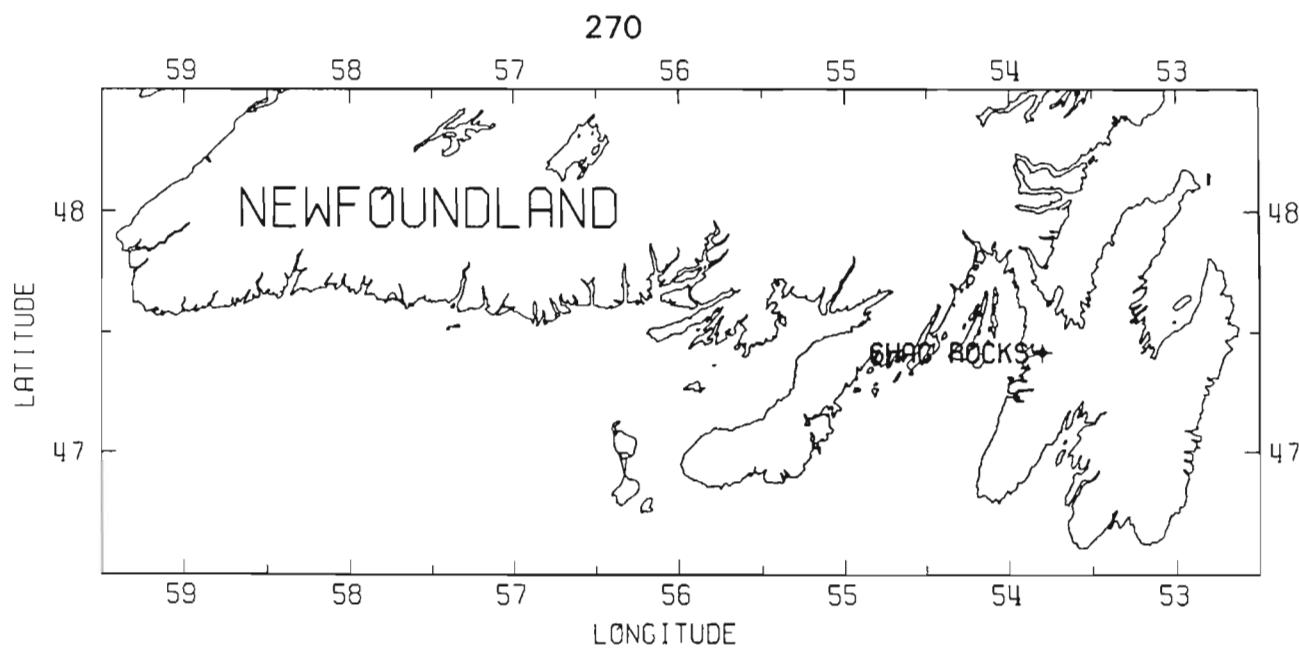
End: 18-APR-1991

THERMOGRAPH DATA SUMMARY

STATION NAME: SHAG ROCKS, PLACENTIA BAY
STATION NUMBER: 111
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3260
LATITUDE: 47.42° N
LONGITUDE: 53.80° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 10 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 30-APR-1991 16:00 GMT
RECOVERY DATE/TIME: 24-SEP-1991 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
APR-1991	1.15	120	1.65	120	1.29	0.14	1.3	0.0	8
MAY-1991	-0.05	127	3.60	135	2.14	0.72	66.4	0.0	744
JUN-1991	0.10	152	8.40	180	4.26	1.87	127.8	28.7	720
JUL-1991	7.50	182	13.70	211	10.00	1.57	310.1	186.1	744
AUG-1991	1.60	217	13.60	241	11.21	2.50	347.5	224.5	744
SEP-1991	0.05	246	20.45	266	10.34	2.77	248.5	155.0	568
Total Period	-0.05	127	20.45	266	7.46	4.21	1101.7	594.4	3528



Start: 30-APR-1991

End: 24-SEP-1991

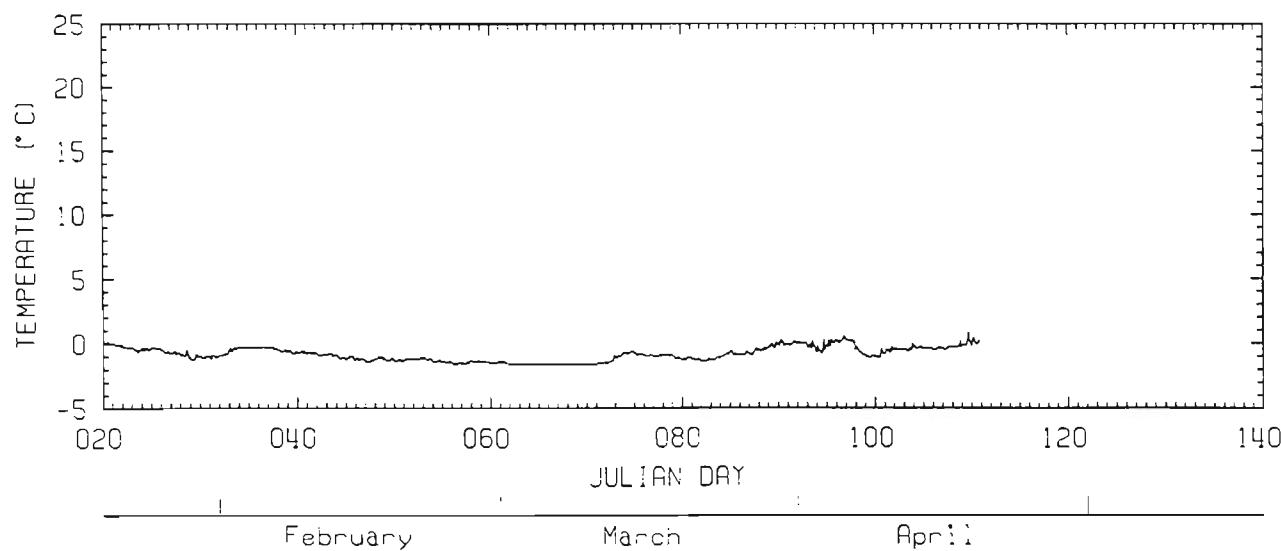
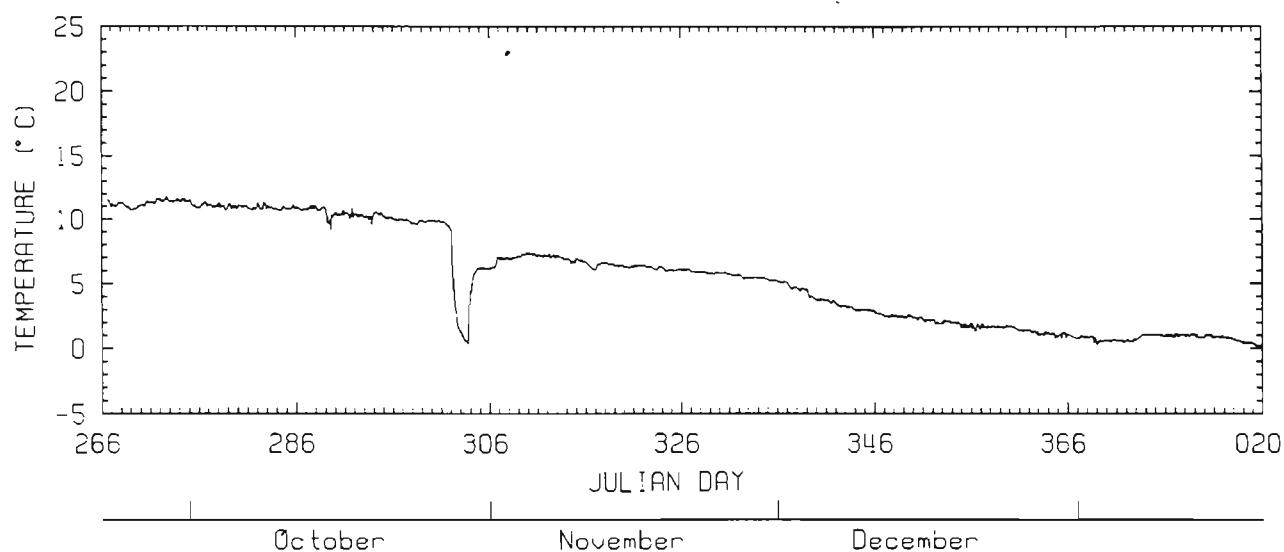
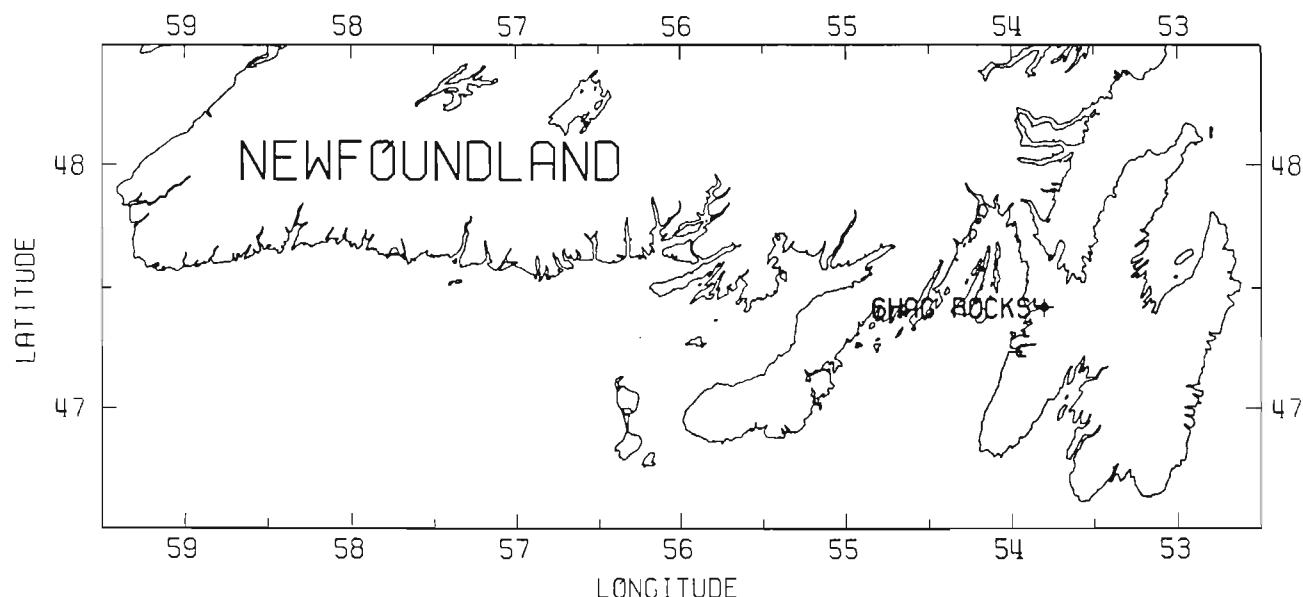
THERMOGRAPH DATA SUMMARY

STATION NAME: SHAG ROCKS, PLACENTIA BAY
STATION NUMBER: 111
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5475
LATITUDE: 47.42° N
LONGITUDE: 53.80° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 23-SEP-1991 16:00 GMT
RECOVERY DATE/TIME: 19-APR-1992 20:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
SEP-1991	10.70	269	11.80	272	11.23	0.25	89.9	57.9	176
OCT-1991	0.30	303	11.60	274	9.86	2.26	305.6	184.6	744
NOV-1991	5.30	332	7.40	309	6.34	0.56	190.2	70.2	720
DEC-1991	0.70	364	5.30	335	2.57	1.20	79.8	3.7	744
JAN-1992	-1.30	29	1.10	11	0.24	0.71	14.2	0.0	744
FEB-1992	-1.60	56	-0.20	34	-1.00	0.40	0.0	0.0	696
MAR-1992	-1.70	64	0.20	90	-1.11	0.47	0.0	0.0	744
APR-1992	-1.10	99	0.80	109	-0.33	0.37	0.5	0.0	453
Total Period	-1.70	64	11.80	272	2.85	4.35	680.1	316.3	5021

272



Start: 23-SEP-1991

End: 19-APR-1992

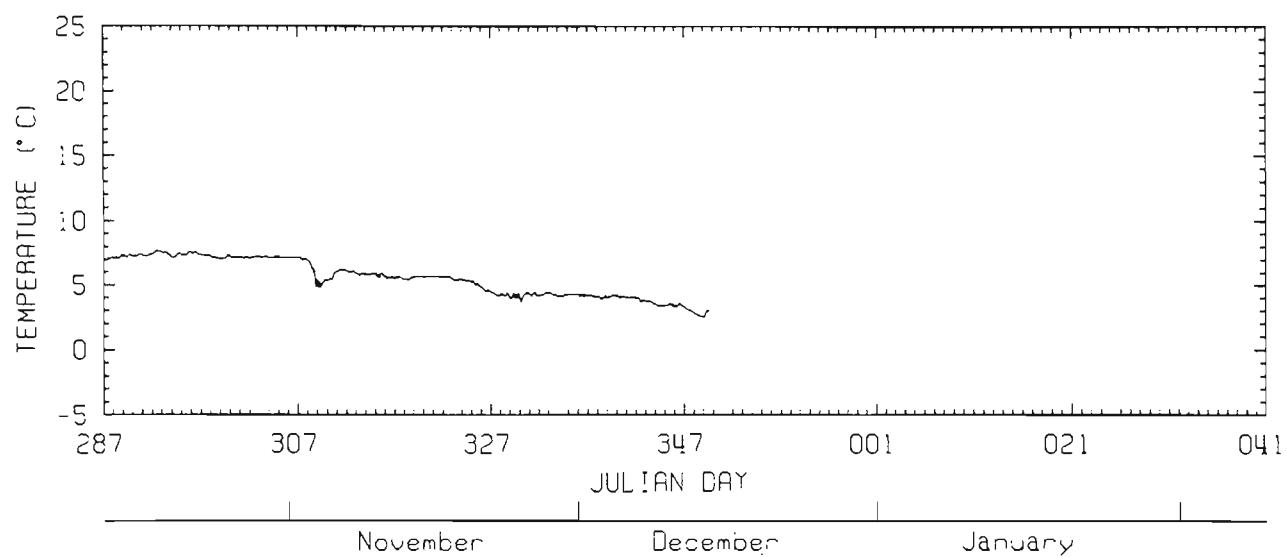
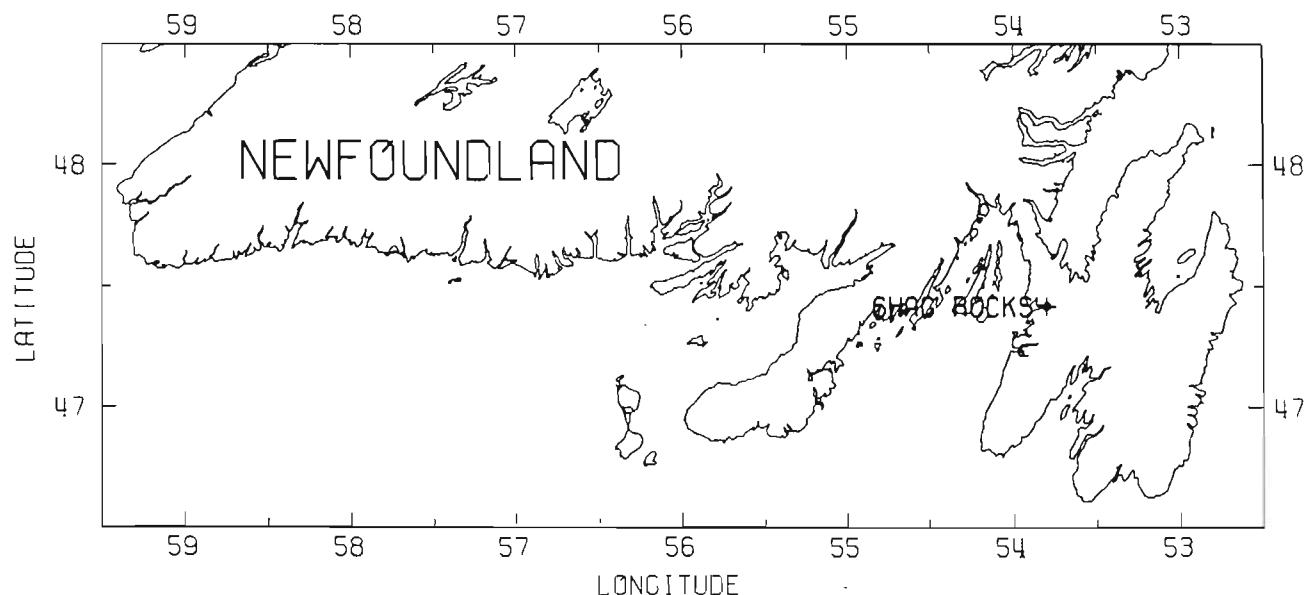
THERMOGRAPH DATA SUMMARY

STATION NAME: SHAG ROCKS, PLACENTIA BAY
STATION NUMBER: 111
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3262
LATITUDE: 47.42° N
LONGITUDE: 53.80° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 13-OCT-1992 12:00 GMT
RECOVERY DATE/TIME: 14-DEC-1992 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
OCT-1992	7.00	299	7.70	292	7.27	0.15	138.0	62.0	444
NOV-1992	3.70	330	7.20	306	5.31	0.85	159.3	39.3	720
DEC-1992	2.45	349	4.30	336	3.66	0.50	50.9	0.6	327
Total Period	2.45	349	7.70	292	5.53	1.45	348.2	101.9	1491

274



Start: 13-OCT-1992

End: 14-DEC-1992

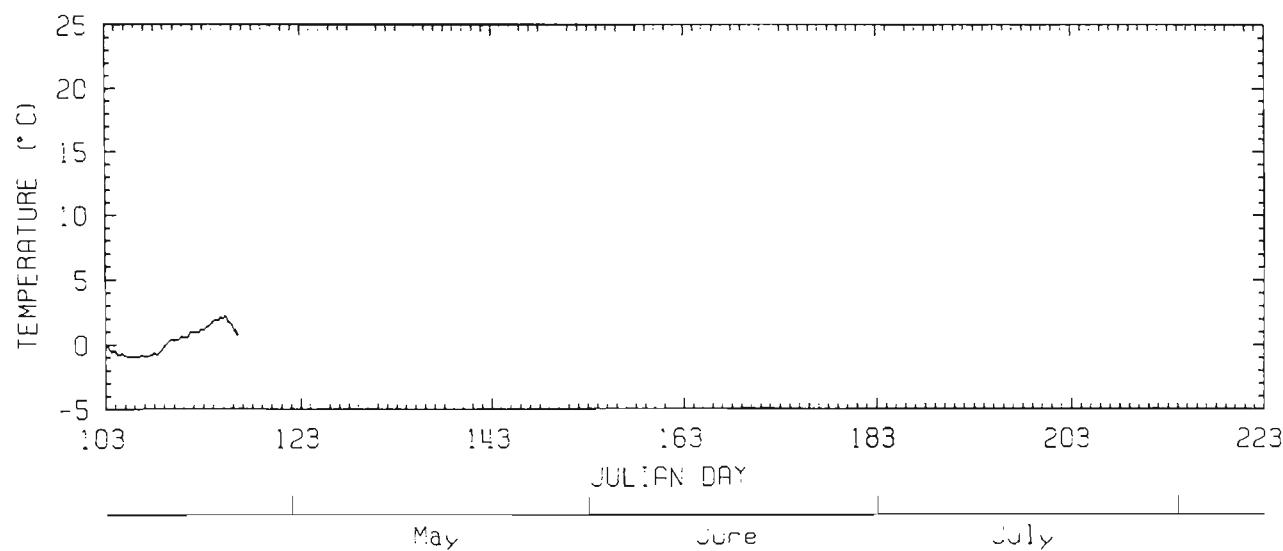
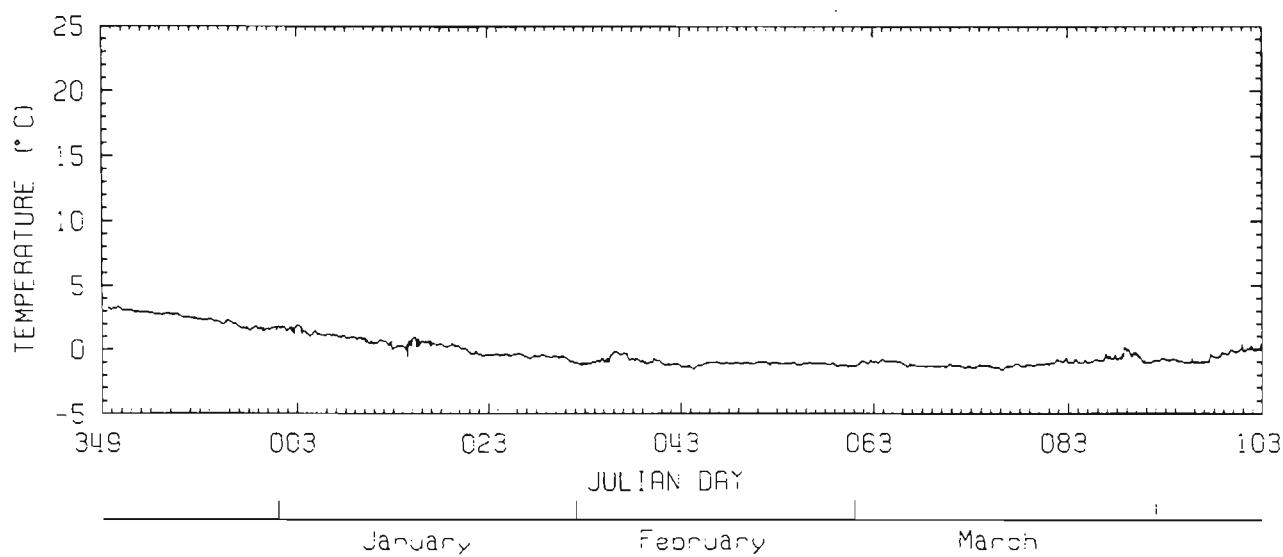
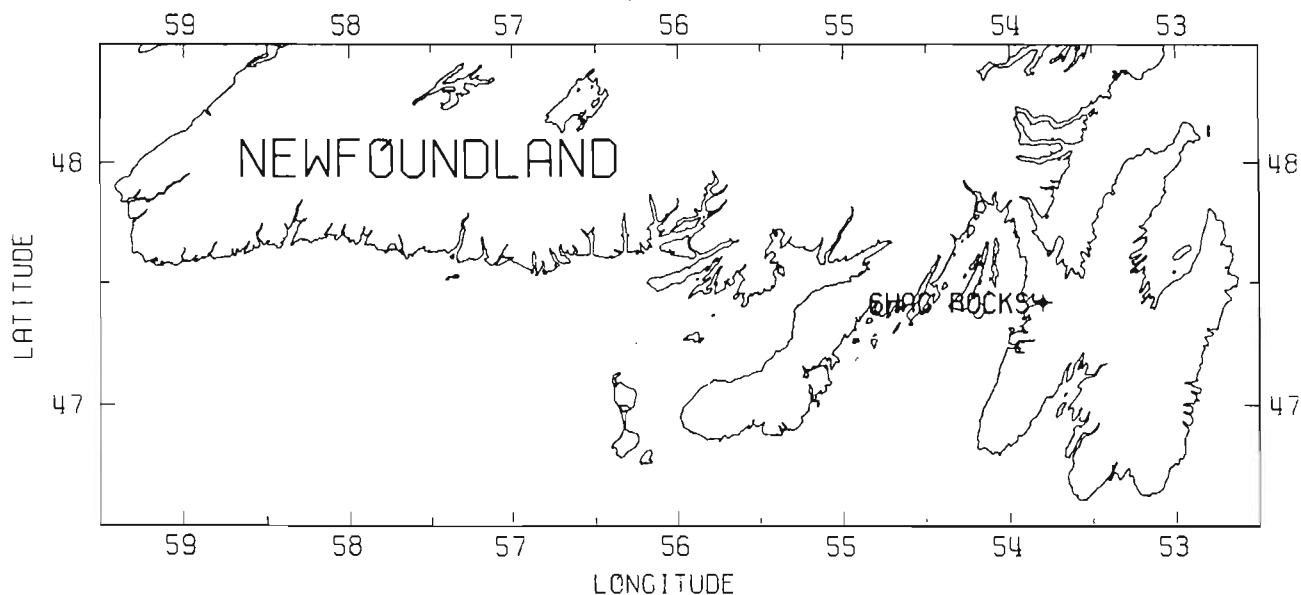
THERMOGRAPH DATA SUMMARY

STATION NAME: SHAG ROCKS, PLACENTIA BAY
STATION NUMBER: 111
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 6645
LATITUDE: 47.42° N
LONGITUDE: 53.80° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 14-DEC-1992 16:00 GMT
RECOVERY DATE/TIME: 26-APR-1993 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
DEC-1992	1.35	365	3.35	350	2.42	0.54	44.1	0.0	416
JAN-1993	-1.05	31	1.90	3	0.33	0.74	15.6	0.0	744
FEB-1993	-1.55	44	-0.15	36	-1.04	0.24	0.0	0.0	672
MAR-1993	-1.65	76	0.15	88	-1.09	0.30	0.0	0.0	744
APR-1993	-1.15	91	2.25	115	-0.13	0.92	8.6	0.0	615
Total Period	-1.65	76	3.35	350	-0.11	1.28	68.3	0.0	3191

276



Start: 14-DEC-1992

End: 26-APR-1993

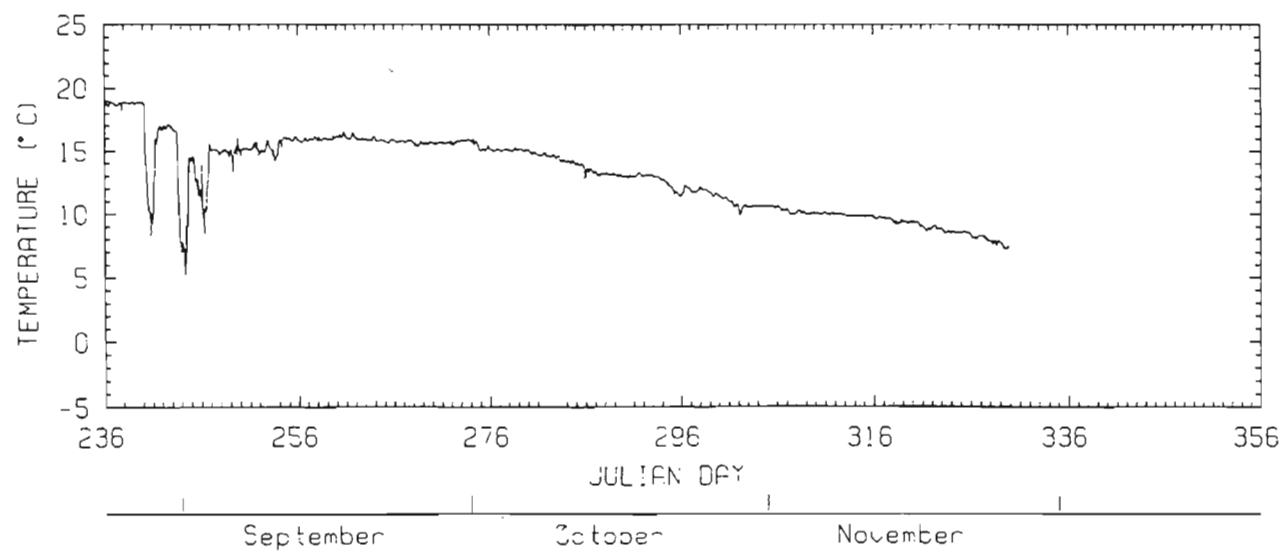
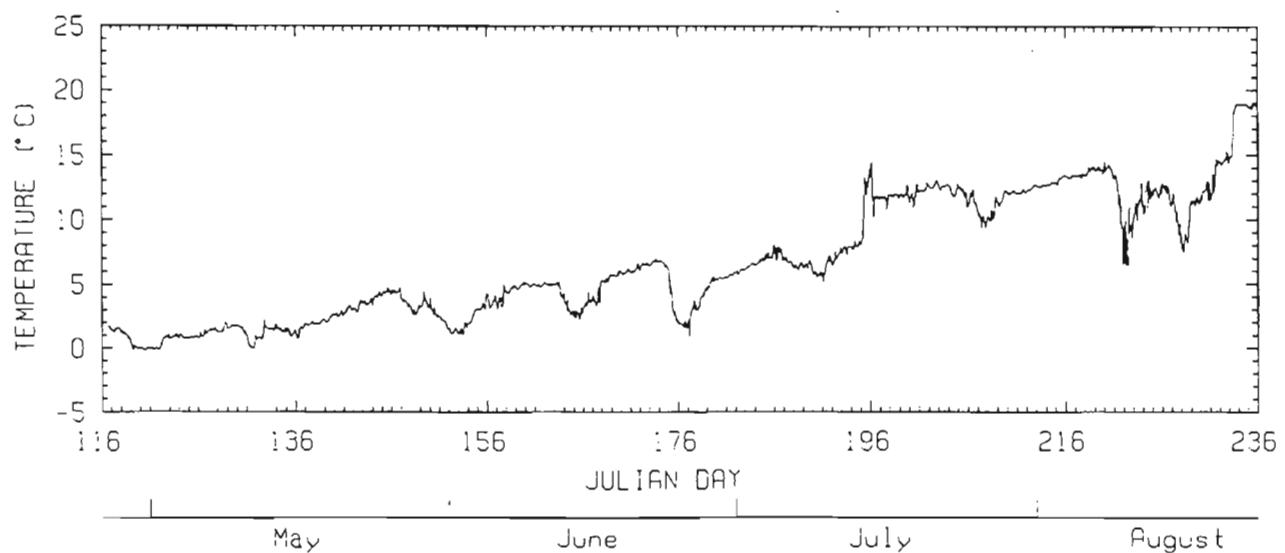
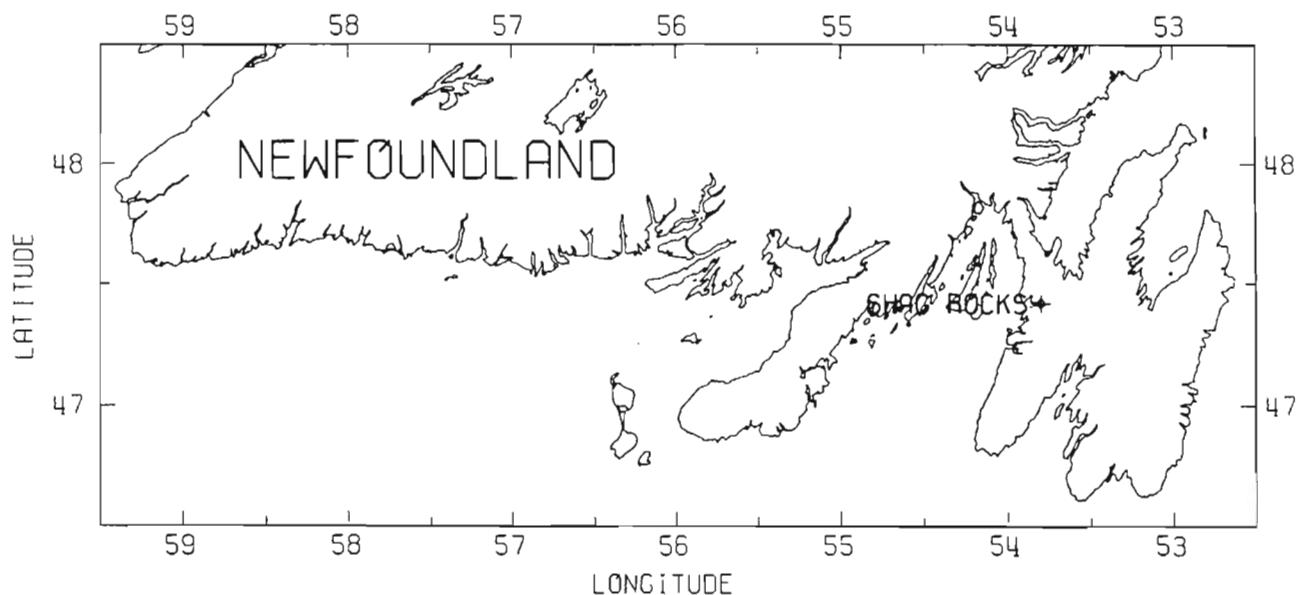
THERMOGRAPH DATA SUMMARY

STATION NAME: SHAG ROCKS, PLACENTIA BAY
STATION NUMBER: 111
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3262
LATITUDE: 47.42° N
LONGITUDE: 53.80° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 9 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 26-APR-1993 16:00 GMT
RECOVERY DATE/TIME: 25-NOV-1993 22:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
APR-1993	-0.20	119	1.80	116	0.71	0.68	4.2	0.0	104
MAY-1993	-0.10	121	4.75	146	2.07	1.22	64.3	0.9	744
JUN-1993	0.90	177	7.00	173	4.34	1.54	130.2	24.5	720
JUL-1993	5.10	191	14.50	196	9.72	2.61	301.2	177.2	744
AUG-1993	6.30	222	18.90	233	13.95	3.21	432.6	308.6	744
SEP-1993	5.20	244	16.55	260	15.22	1.60	456.7	336.7	720
OCT-1993	9.85	302	15.95	274	13.17	1.57	408.3	284.3	744
NOV-1993	7.30	329	10.65	305	9.31	0.86	232.7	132.7	599
Total Period	-0.20	119	18.90	233	9.51	5.16	2030.1	1264.9	5119

278



Start: 26-APR-1993

End: 25-NOV-1993

Appendix 11. Time Series Plots and Monthly Statistics
from Unit Area 3PSb.



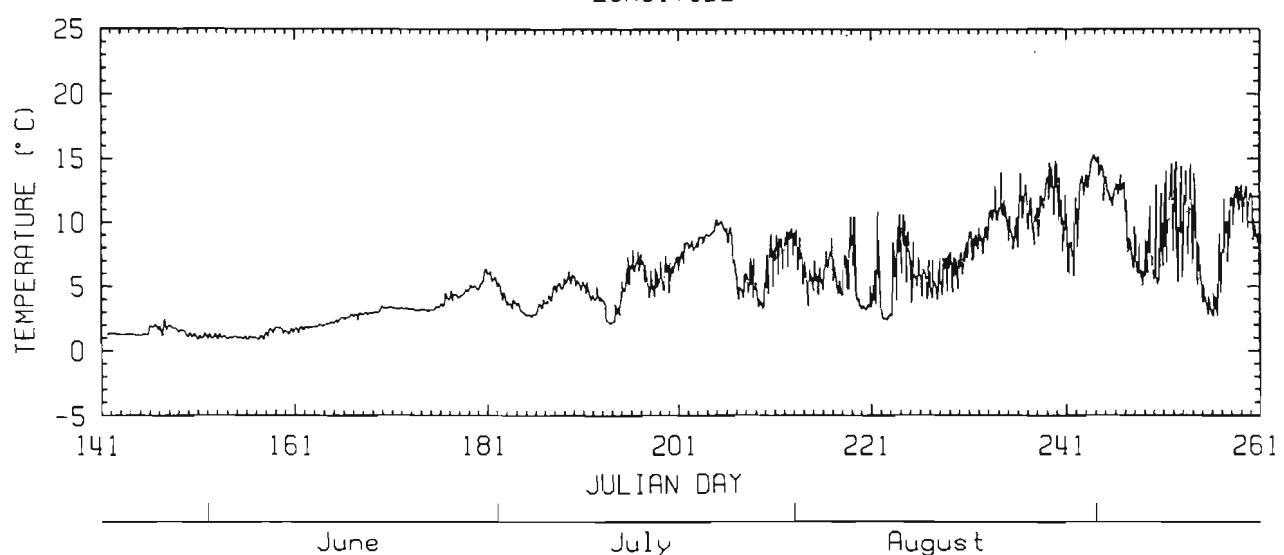
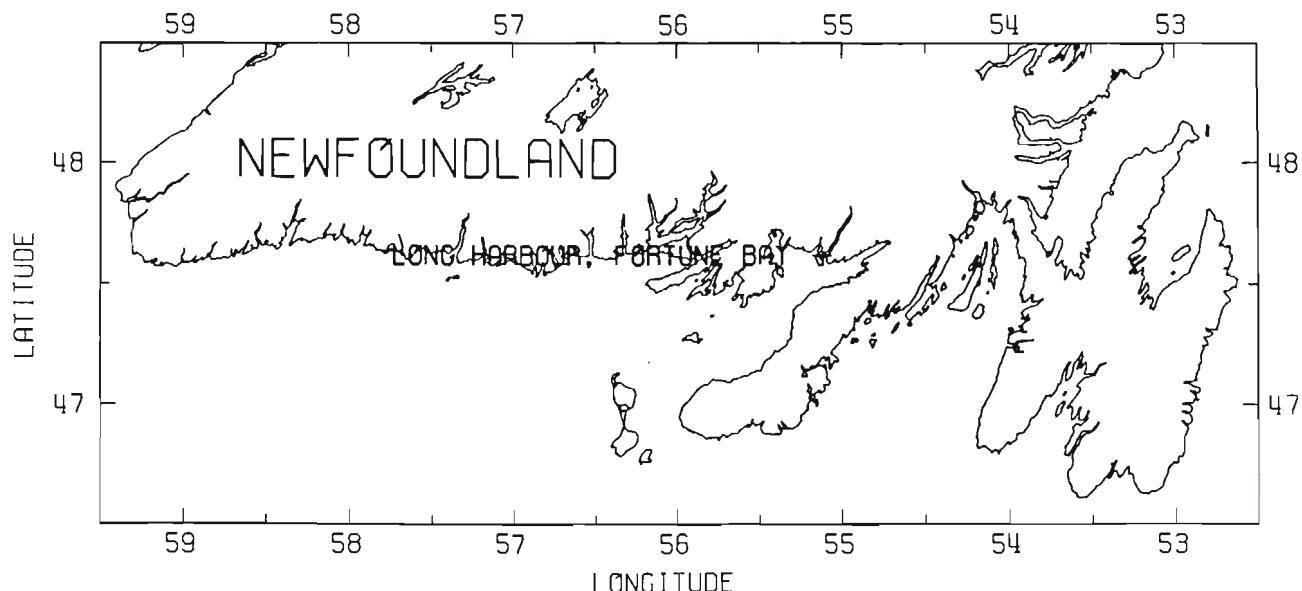
THERMOGRAPH DATA SUMMARY

STATION NAME: LONG HARBOUR, FORTUNE BAY
STATION NUMBER: 107
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 62900
LATITUDE: 47.62° N
LONGITUDE: 55.12° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 10 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 21-MAY-1990 16:00 GMT
RECOVERY DATE/TIME: 17-SEP-1990 19:41 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1990	0.87	151	2.46	147	1.51	0.35	15.8	0.0	91
JUN-1990	0.85	156	6.45	180	2.90	1.36	81.0	5.0	315
JUL-1990	2.15	193	10.21	205	5.89	1.96	179.2	59.8	494
AUG-1990	2.44	222	15.33	243	8.00	2.93	247.9	125.6	614
SEP-1990	2.68	256	15.21	244	9.30	3.06	161.0	93.2	406
Total Period	0.85	156	15.33	243	6.59	3.43	684.9	283.7	1920

282



Start: 21-MAY-1990

End: 17-SEP-1990

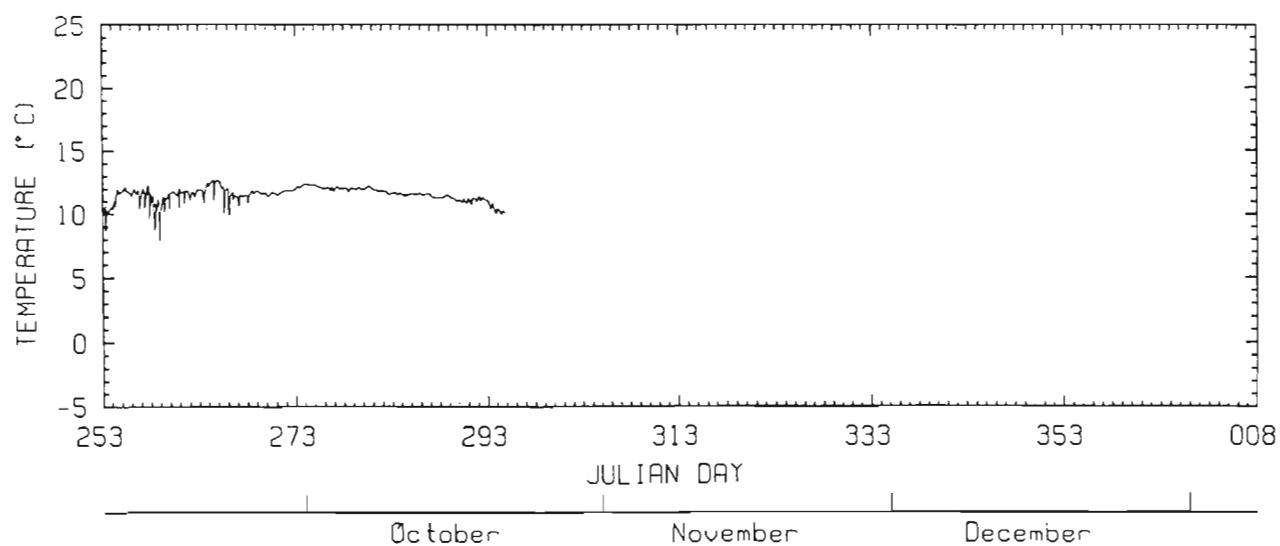
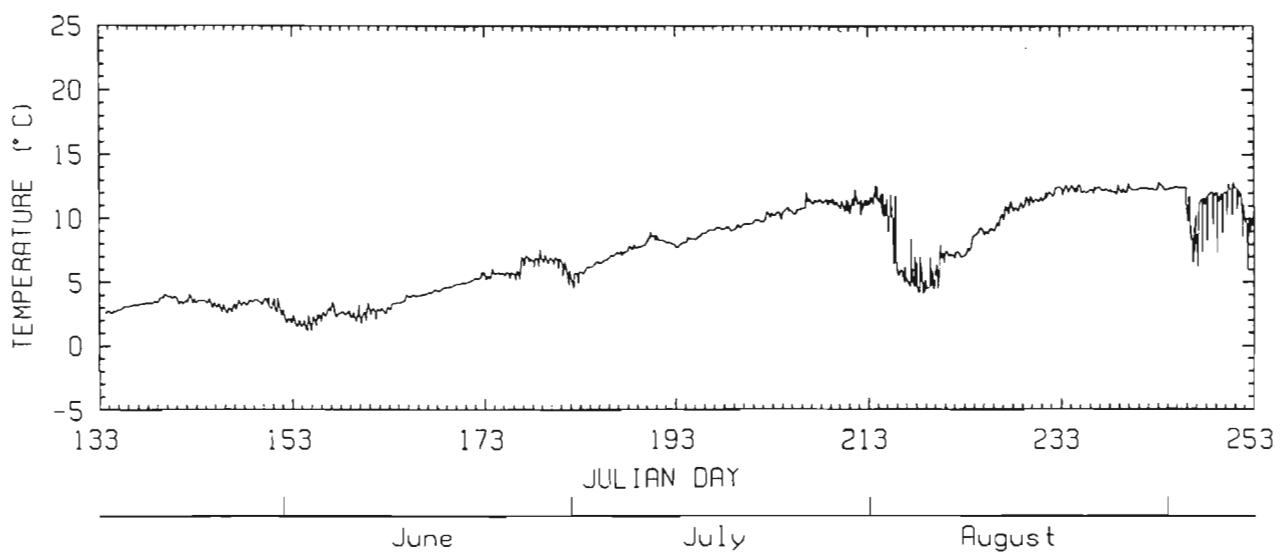
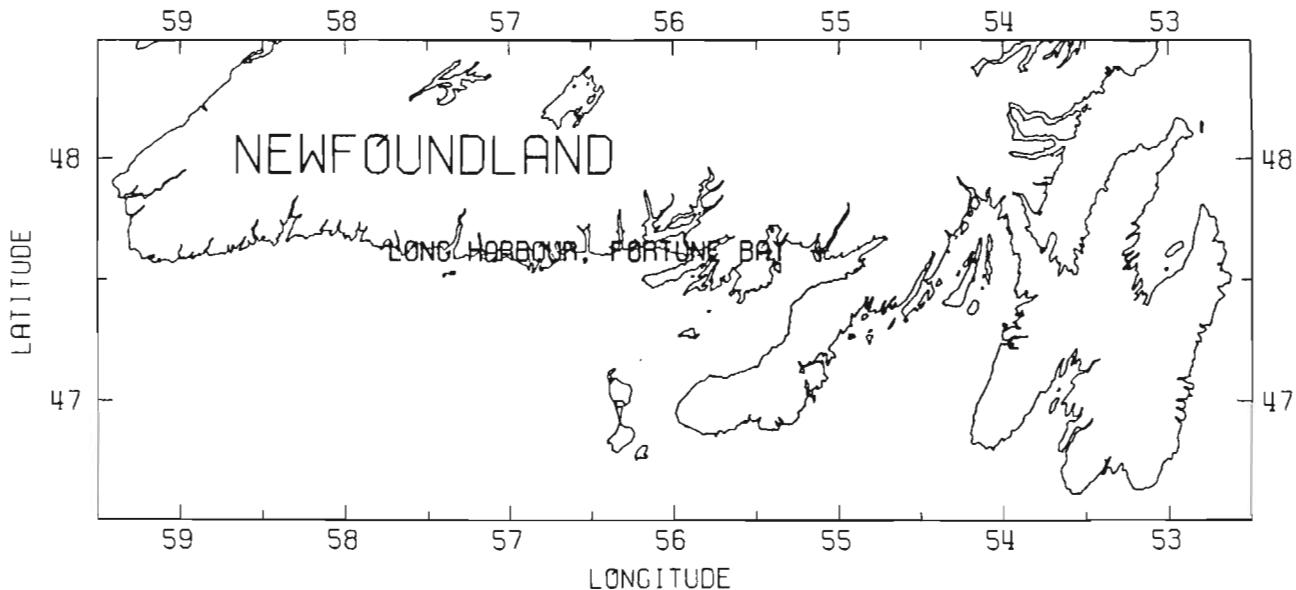
THERMOGRAPH DATA SUMMARY

STATION NAME: LONG HARBOUR, FORTUNE BAY
STATION NUMBER: 107
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 63350
LATITUDE: 47.62° N
LONGITUDE: 55.12° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 10 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 13-MAY-1991 15:00 GMT
RECOVERY DATE/TIME: 21-OCT-1991 20:39 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1991	2.37	151	4.10	142	3.33	0.40	62.5	0.0	99
JUN-1991	1.10	154	7.55	178	4.26	1.83	125.5	24.6	180
JUL-1991	4.53	182	12.29	211	9.30	1.86	281.1	157.1	158
AUG-1991	4.12	218	12.84	243	9.53	2.82	323.4	191.4	252
SEP-1991	6.13	252	12.84	250	11.06	1.30	338.9	218.9	233
OCT-1991	9.95	294	12.34	274	11.44	0.57	242.6	158.6	81
Total Period	1.10	154	12.84	243	8.44	3.47	1374.0	750.6	1003

284



Start: 13-MAY-1991

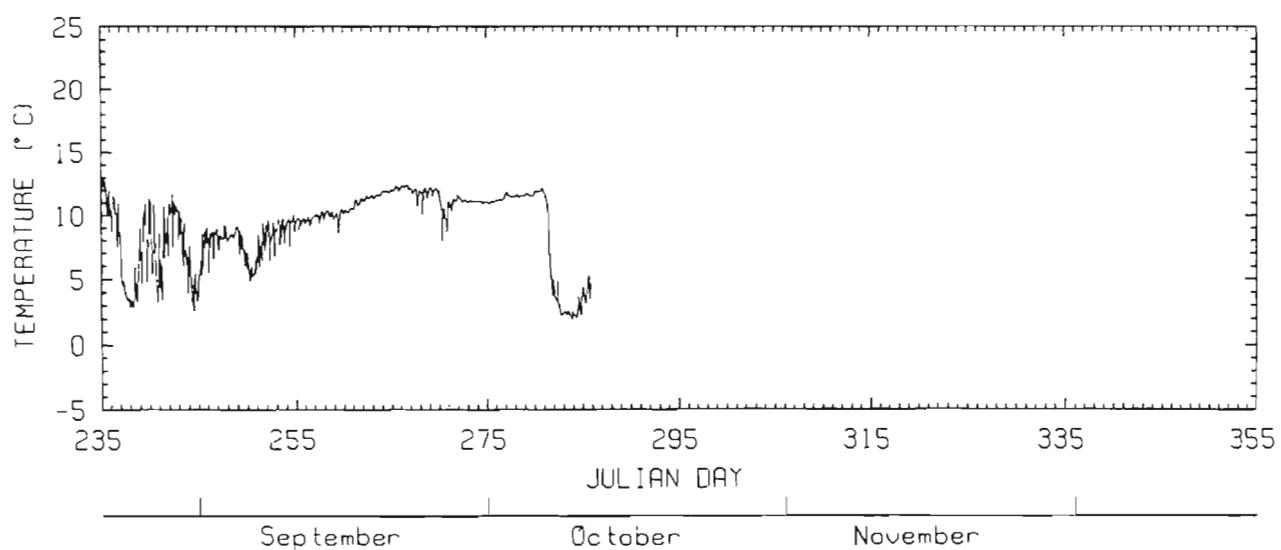
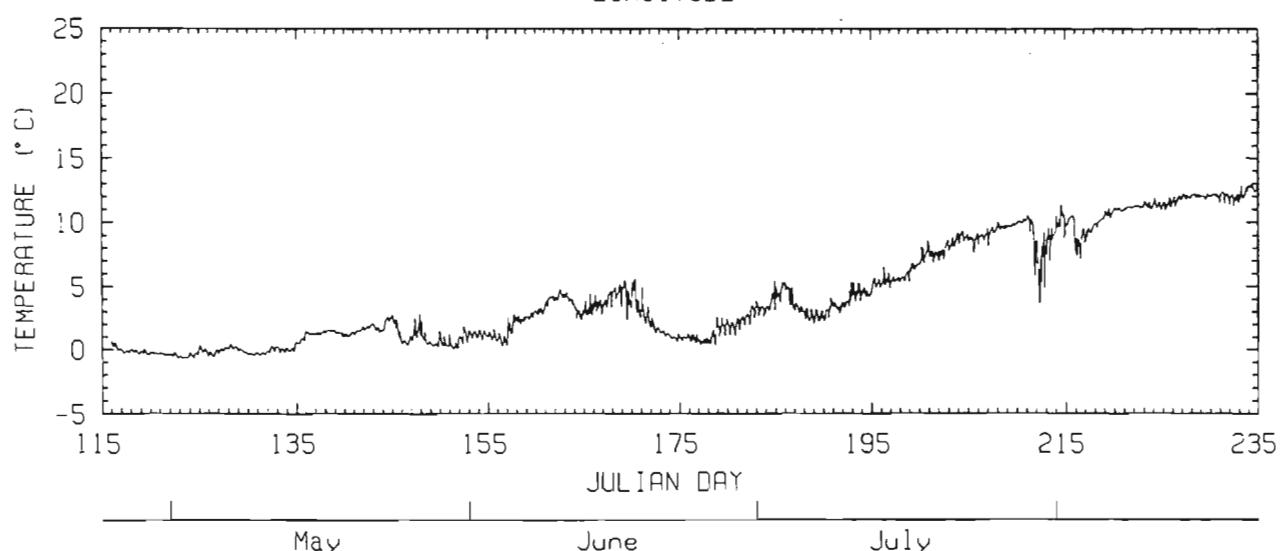
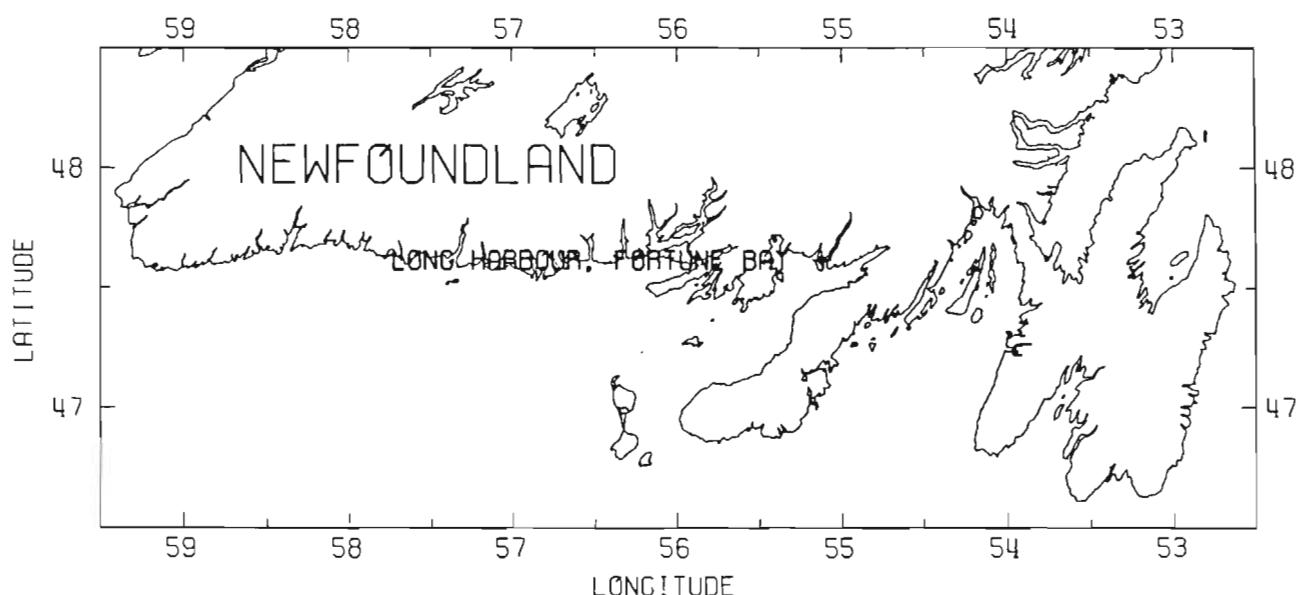
End: 21-OCT-1991

THERMOGRAPH DATA SUMMARY

STATION NAME: LONG HARBOUR, FORTUNE BAY
STATION NUMBER: 107
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 61524
LATITUDE: 47.62° N
LONGITUDE: 55.12° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 10 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 24-APR-1992 21:36 GMT
RECOVERY DATE/TIME: 11-OCT-1992 21:42 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
APR-1992	-0.47	121	0.65	115	-0.15	0.26	0.9	0.0	76
MAY-1992	-0.68	123	2.85	147	0.70	0.85	22.7	0.0	399
JUN-1992	0.30	178	5.72	170	2.57	1.30	73.3	1.1	389
JUL-1992	2.10	189	10.55	211	6.09	2.34	210.7	84.0	484
AUG-1992	2.58	244	12.99	234	9.50	2.67	310.5	186.5	547
SEP-1992	3.91	245	12.45	266	9.51	1.90	297.4	177.4	444
OCT-1992	1.88	283	12.16	280	7.83	4.04	89.7	49.3	150
Total Period	-0.68	123	12.99	234	5.95	4.15	1005.2	498.4	2489



Start: 24-APR-1992

End: 11-OCT-1992

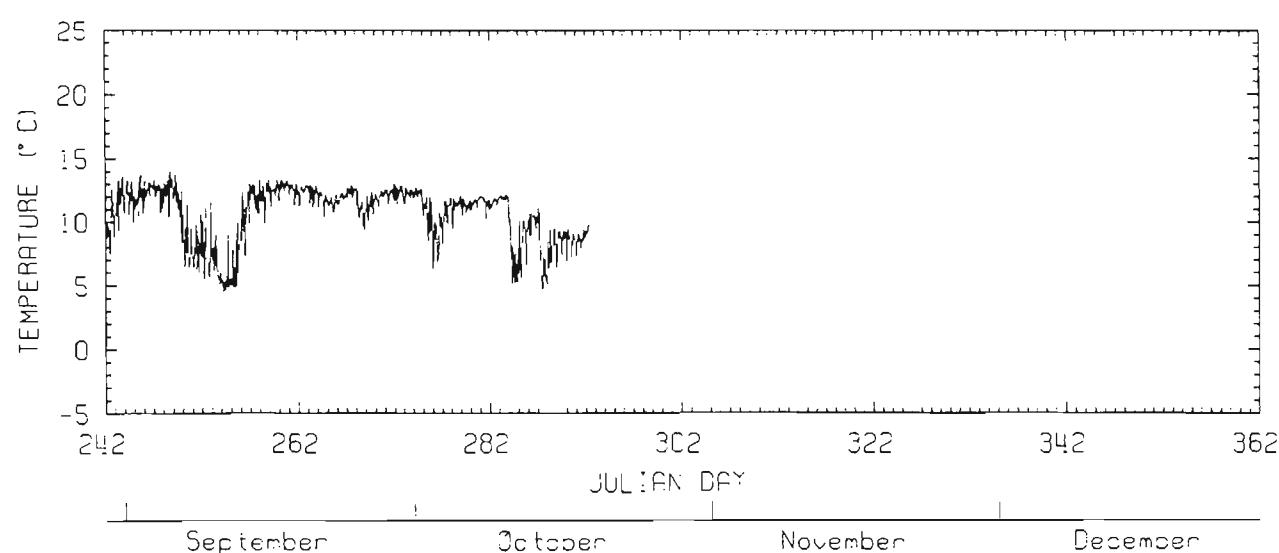
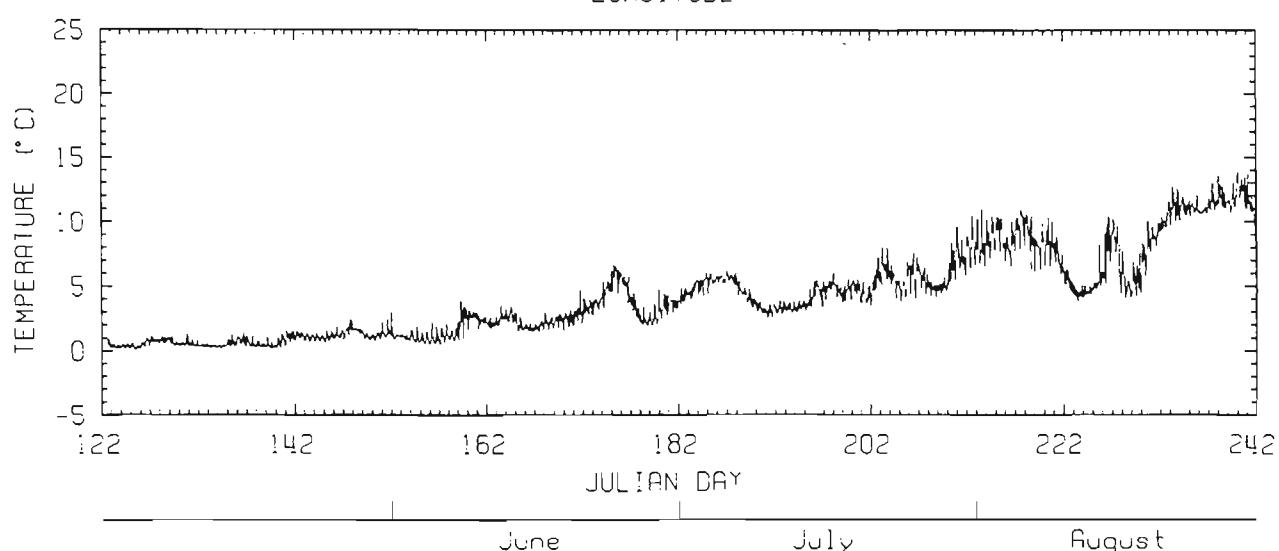
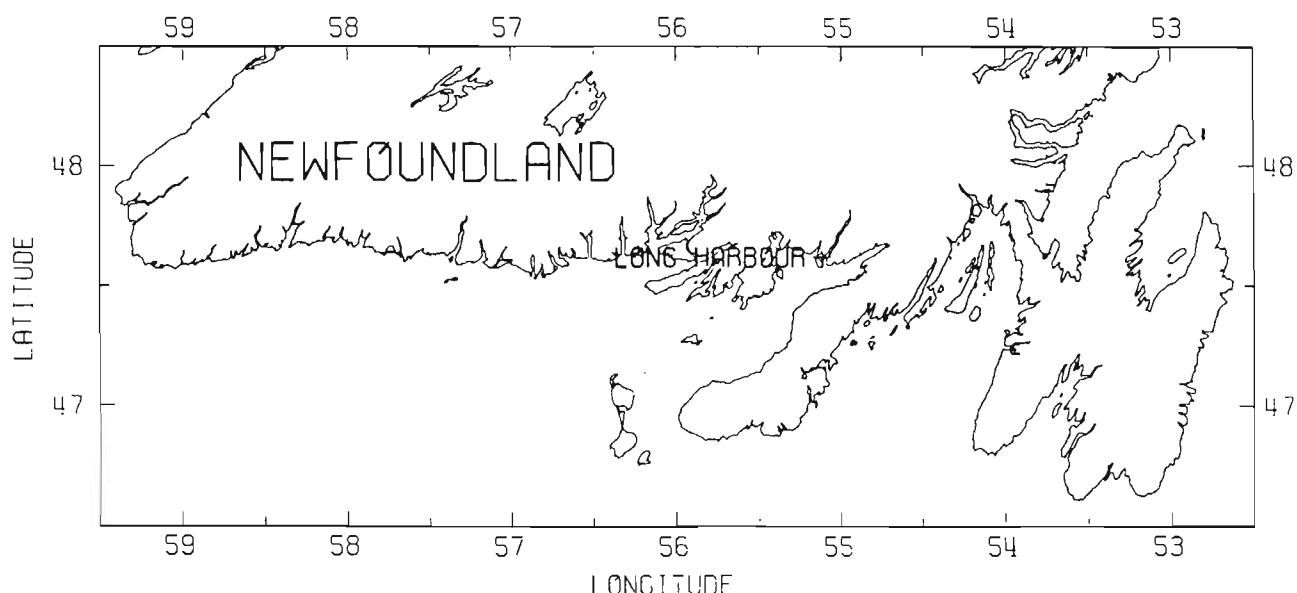
THERMOGRAPH DATA SUMMARY

STATION NAME: LONG HARBOUR, FORTUNE BAY
STATION NUMBER: 107
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 6641
LATITUDE: 47.62° N
LONGITUDE: 55.12° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 10 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 2-MAY-1993 15:00 GMT
RECOVERY DATE/TIME: 19-OCT-1993 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1993	0.15	123	2.50	147	0.78	0.45	23.3	0.0	705
JUN-1993	0.45	156	6.65	175	2.53	1.28	75.8	3.6	720
JUL-1993	2.50	191	10.50	212	4.95	1.31	153.3	33.5	744
AUG-1993	3.85	223	13.95	241	8.84	2.51	274.2	150.2	744
SEP-1993	4.45	254	14.05	248	11.05	2.28	331.5	211.5	720
OCT-1993	4.65	287	12.70	274	9.90	1.92	187.8	111.8	444
Total Period	0.15	123	14.05	248	6.13	4.22	1045.8	510.5	4077

288



Start: 2-MAY-1993

End: 19-OCT-1993

Appendix 12. Time Series Plots and Monthly Statistics
from Unit Area 4Rd.



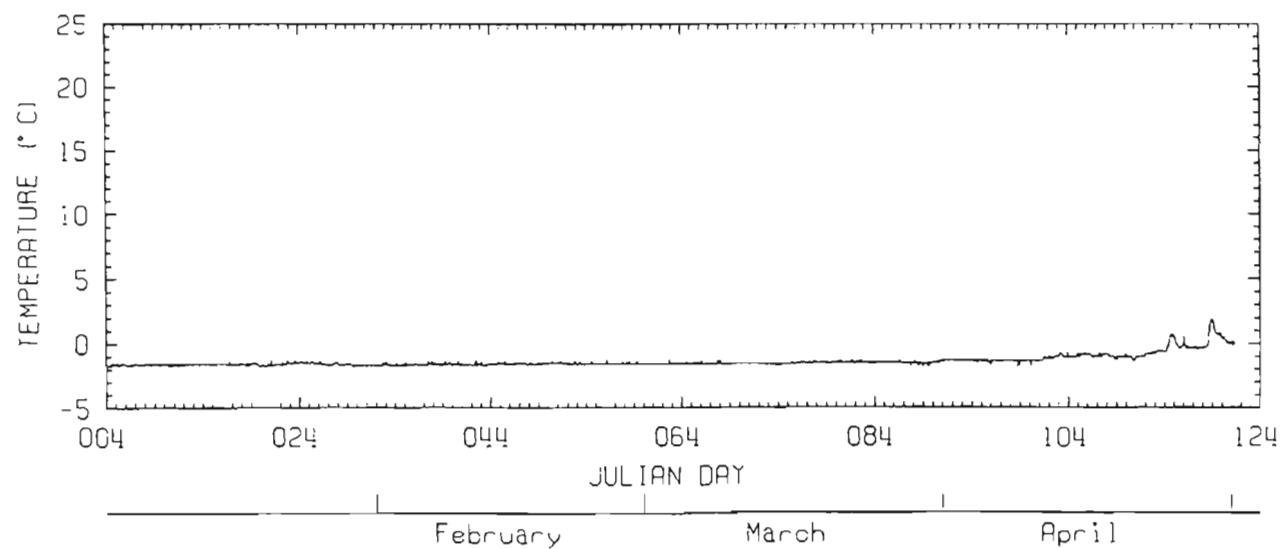
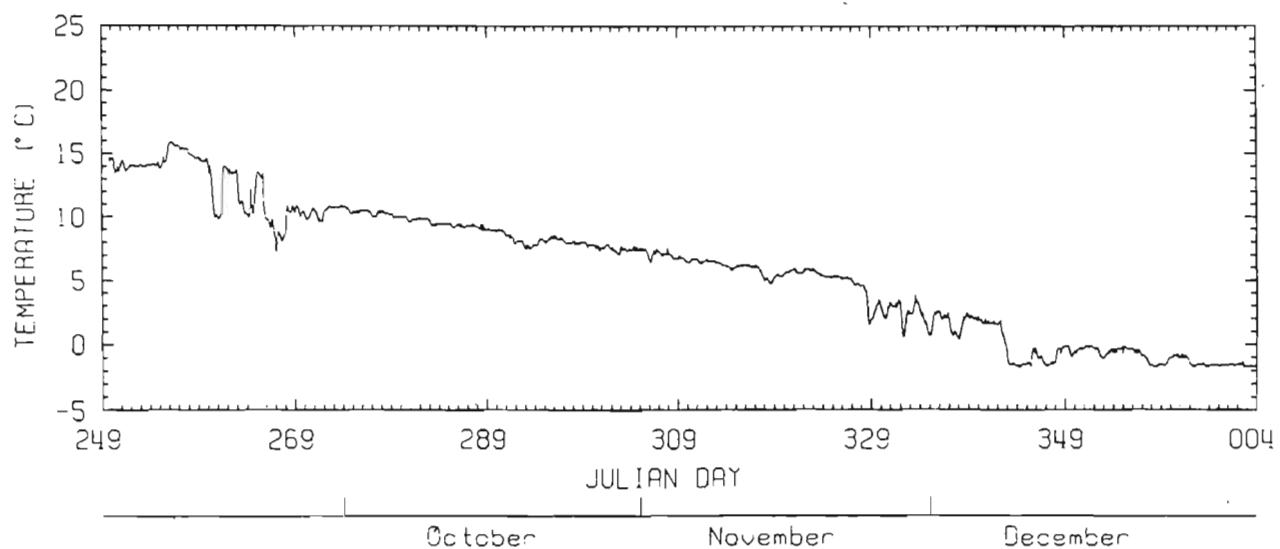
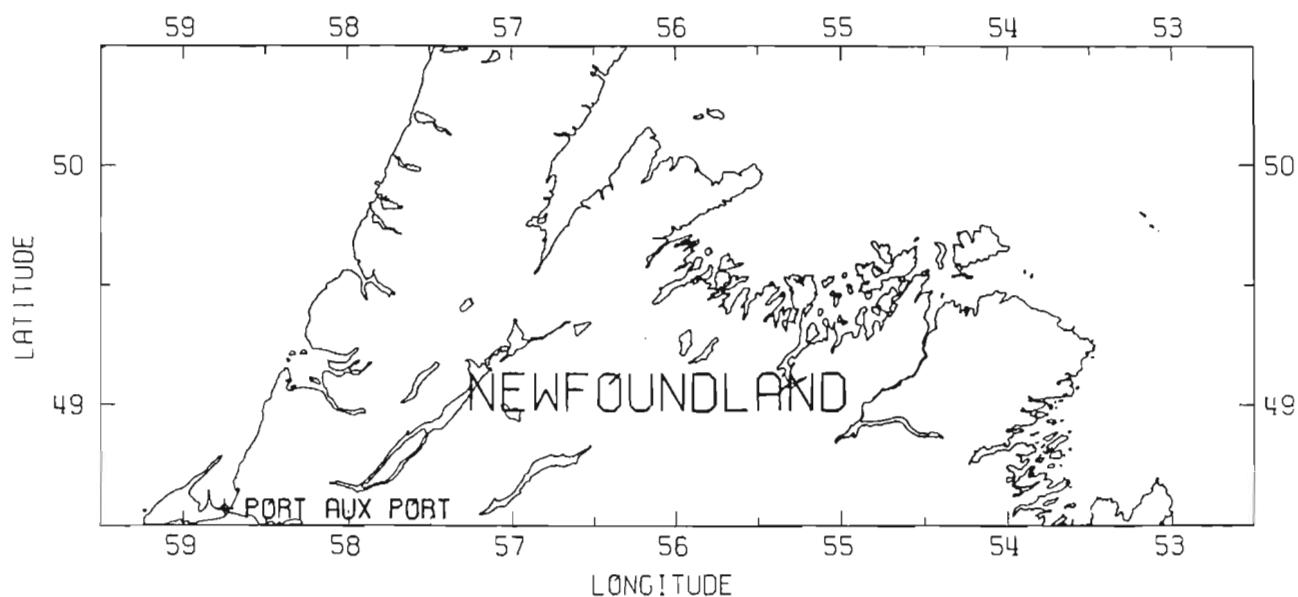
THERMOGRAPH DATA SUMMARY

STATION NAME: PORT AUX PORT
STATION NUMBER: 113
INSTRUMENT TYPE: Ryan TempMentor
INSTRUMENT S/N: 900654
LATITUDE: 48.57° N
LONGITUDE: 58.75° W
INSTRUMENT DEPTH: 11 m
WATER DEPTH: 11 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 6-SEP-1989 18:15 GMT
RECOVERY DATE/TIME: 1-MAY-1990 11:15 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
SEP-1989	7.20	267	15.90	256	12.39	2.18	311.3	211.3	582
OCT-1989	7.00	302	10.90	274	8.87	1.04	274.9	150.9	744
NOV-1989	0.50	332	7.60	305	5.22	1.63	156.7	46.4	720
DEC-1989	-1.80	345	2.60	335	-0.32	1.28	12.9	0.0	744
JAN-1990	-1.80	27	-1.20	2	-1.59	0.09	0.0	0.0	744
FEB-1990	-1.80	33	-1.20	56	-1.58	0.09	0.0	0.0	672
MAR-1990	-1.80	63	-1.20	62	-1.53	0.07	0.0	0.0	744
APR-1990	-1.80	95	1.90	118	-0.81	0.64	1.7	0.0	720
MAY-1990	-0.20	121	0.30	121	0.08	0.11	0.1	0.0	12
Total Period	-1.80	345	15.90	256	2.35	5.12	757.6	408.7	5682

292



Start: 6-SEP-1989

End: 1-MAY-1990

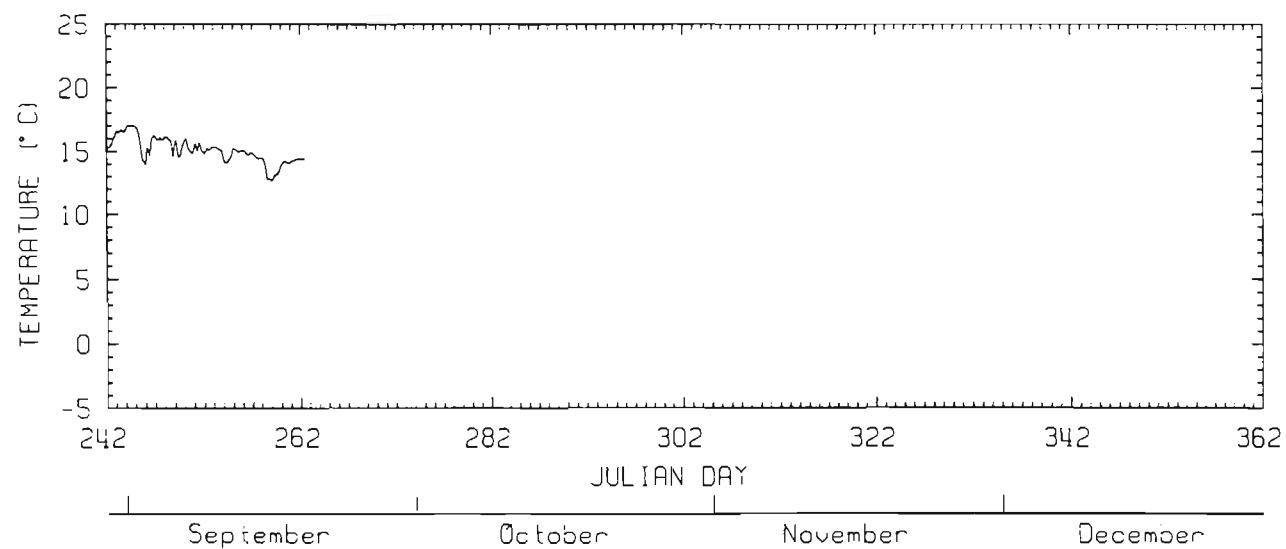
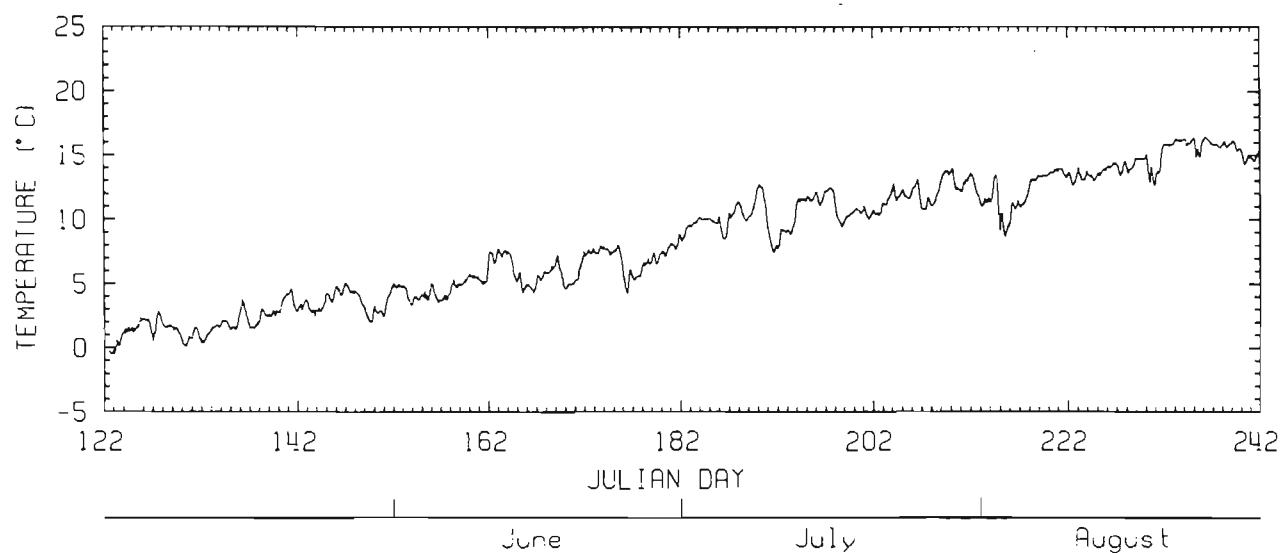
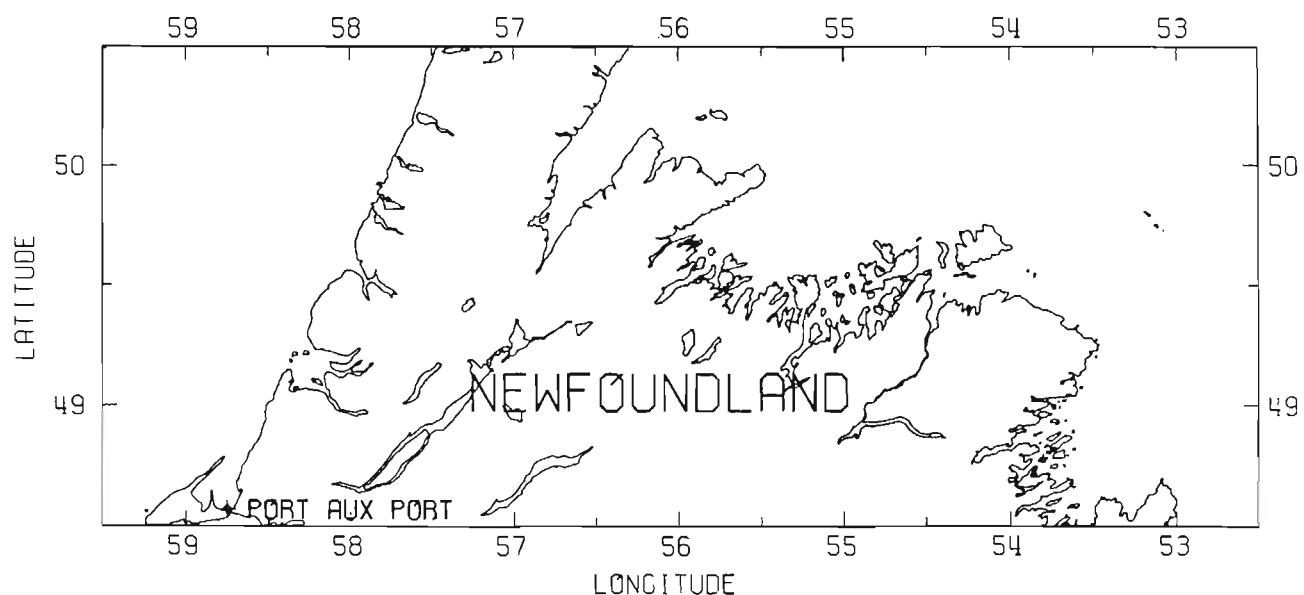
THERMOGRAPH DATA SUMMARY

STATION NAME: PORT AUX PORT
STATION NUMBER: 113
INSTRUMENT TYPE: Ryan TempMentor
INSTRUMENT S/N: 900285
LATITUDE: 48.57° N
LONGITUDE: 58.75° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 11 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 2-MAY-1990 12:30 GMT
RECOVERY DATE/TIME: 19-SEP-1990 12:30 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1990	-0.50	122	5.10	146	2.37	1.27	70.0	1.1	708
JUN-1990	3.30	153	8.90	181	5.85	1.35	175.6	55.9	720
JUL-1990	7.50	191	13.90	210	10.96	1.37	339.6	215.6	744
AUG-1990	8.60	215	16.70	243	14.05	1.76	435.6	311.6	744
SEP-1990	12.60	258	17.10	244	14.94	0.96	283.7	207.7	445
Total Period	-0.50	122	17.10	244	9.27	4.94	1304.6	792.0	3361

294



Start: 2-MAY-1990

End: 19-SEP-1990

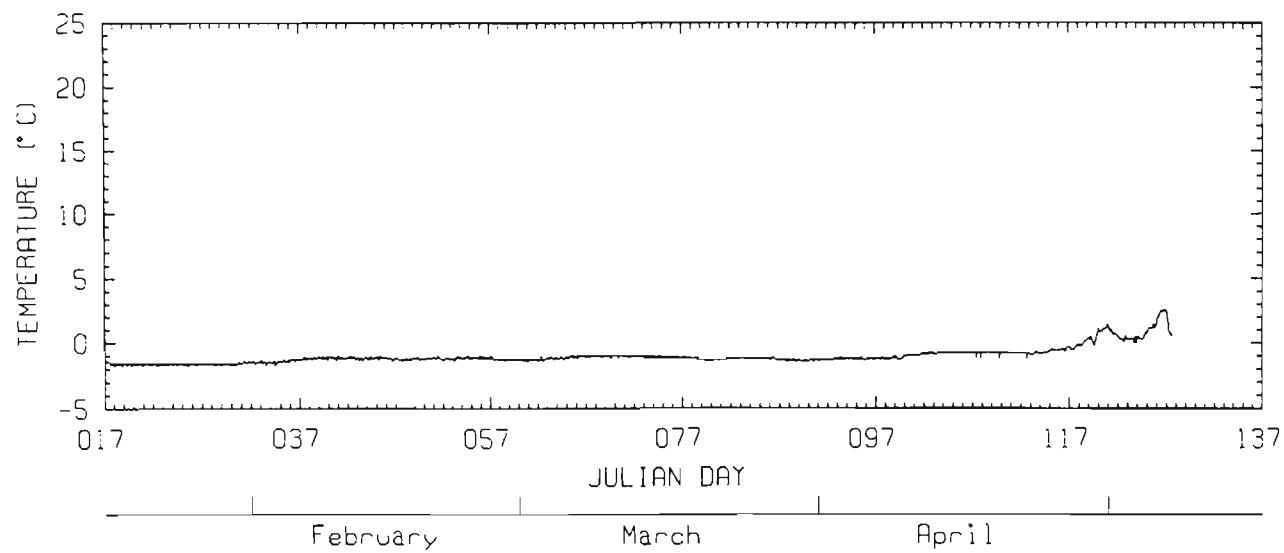
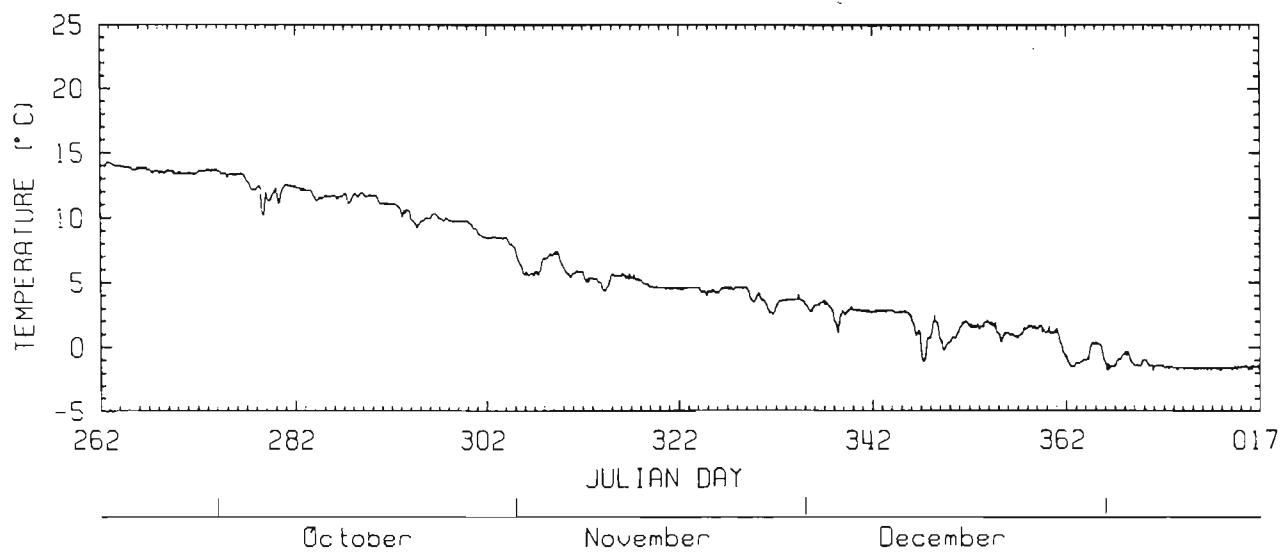
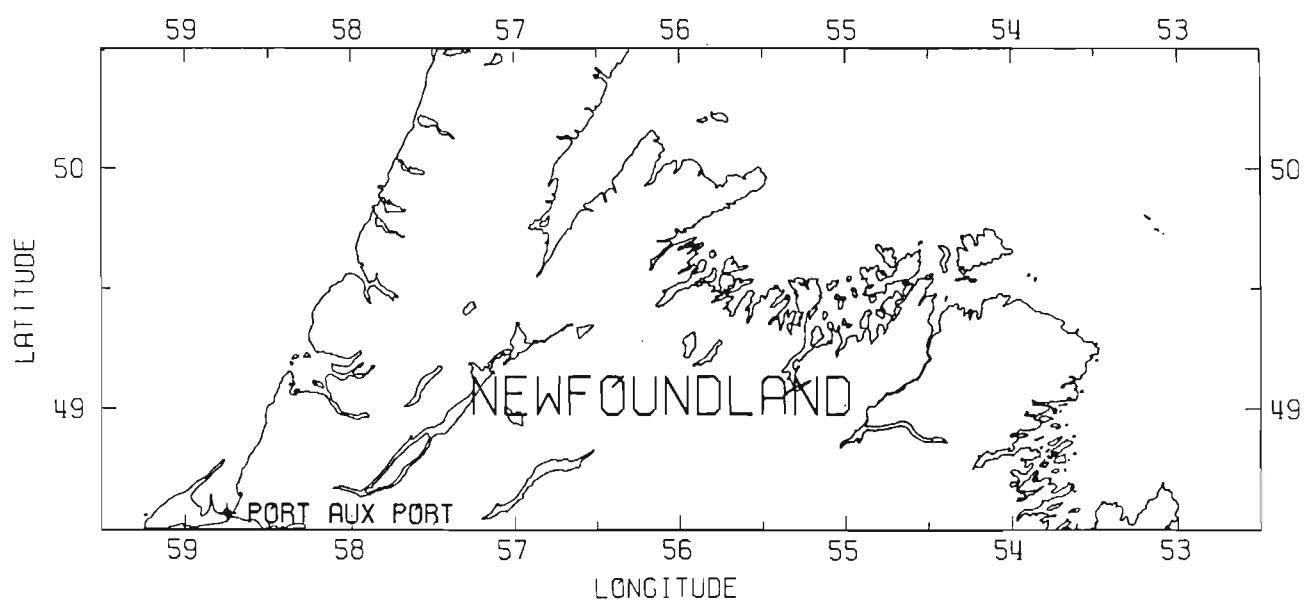
THERMOGRAPH DATA SUMMARY

STATION NAME: PORT AUX PORT
STATION NUMBER: 113
INSTRUMENT TYPE: Ryan TempMentor
INSTRUMENT S/N: 900652
LATITUDE: 48.57° N
LONGITUDE: 58.75° W
INSTRUMENT DEPTH: 10 m
WATER DEPTH: 10 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 19-SEP-1990 13:30 GMT
RECOVERY DATE/TIME: 7-MAY-1991 16:30 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
SEP-1990	13.30	271	14.30	262	13.68	0.24	164.4	116.4	275
OCT-1990	7.80	304	13.60	274	10.97	1.46	340.2	216.2	744
NOV-1990	2.50	331	7.60	305	4.89	1.02	146.6	29.3	720
DEC-1990	-1.50	362	3.70	337	1.49	1.30	49.3	0.0	744
JAN-1991	-1.90	5	-0.30	3	-1.53	0.23	0.0	0.0	744
FEB-1991	-1.80	33	-0.90	39	-1.25	0.13	0.0	0.0	672
MAR-1991	-1.50	60	-0.90	68	-1.20	0.12	0.0	0.0	744
APR-1991	-1.40	91	1.40	120	-0.79	0.50	1.3	0.0	720
MAY-1991	-0.10	122	2.60	126	0.90	0.73	6.4	0.0	161
Total Period	-1.90	5	14.30	262	2.40	4.97	708.2	361.9	5524

296



Start: 19-SEP-1990

End: 7-MAY-1991

Appendix 13. Time Series Plots and Monthly Statistics
from Unit Area 4Rc.

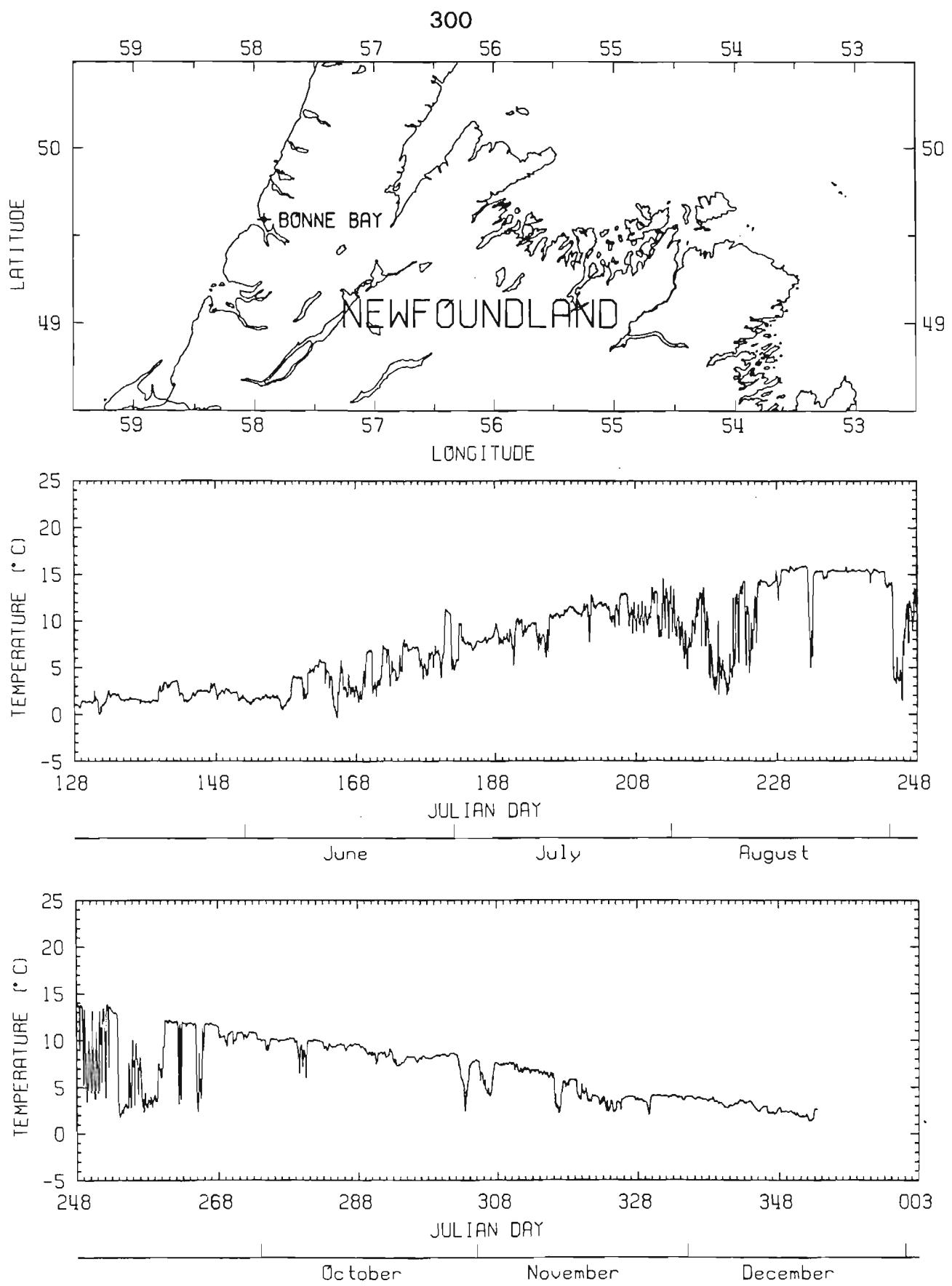


THERMOGRAPH DATA SUMMARY

STATION NAME: BONNE BAY
STATION NUMBER: 180
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 4330
LATITUDE: 49.59° N
LONGITUDE: 57.92° W
INSTRUMENT DEPTH: 22 m
WATER DEPTH: 22 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 8-MAY-1991 15:00 GMT
RECOVERY DATE/TIME: 19-DEC-1991 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-1991	0.05	131	3.60	142	1.98	0.70	46.8	0.0	561
JUN-1991	-0.35	165	11.25	180	4.13	2.38	123.8	29.1	720
JUL-1991	4.65	182	14.65	211	9.81	1.84	304.2	180.2	744
AUG-1991	2.05	219	15.95	229	12.29	3.96	381.1	257.1	744
SEP-1991	1.45	245	14.20	244	8.95	3.57	268.6	150.7	720
OCT-1991	2.35	303	10.25	278	8.72	1.19	270.3	146.3	744
NOV-1991	2.05	329	7.90	305	4.92	1.58	147.7	33.1	720
DEC-1991	1.35	352	4.05	335	2.89	0.69	54.7	0.0	444
Total Period	-0.35	165	15.95	229	7.09	4.15	1597.0	796.4	5397



Start: 8-MAY-1991

End: 19-DEC-1991

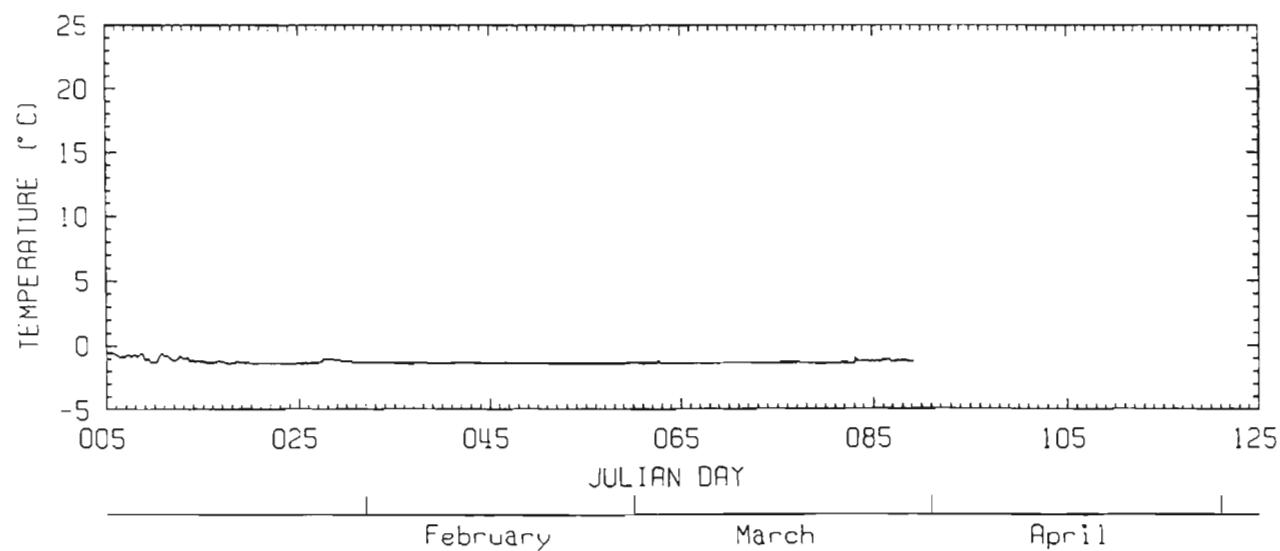
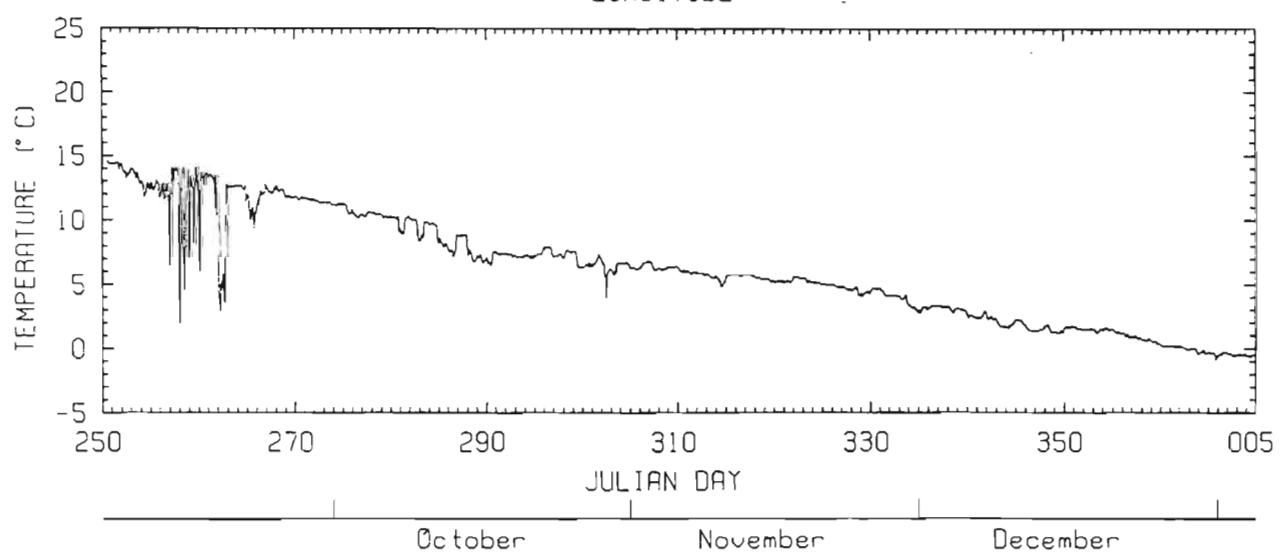
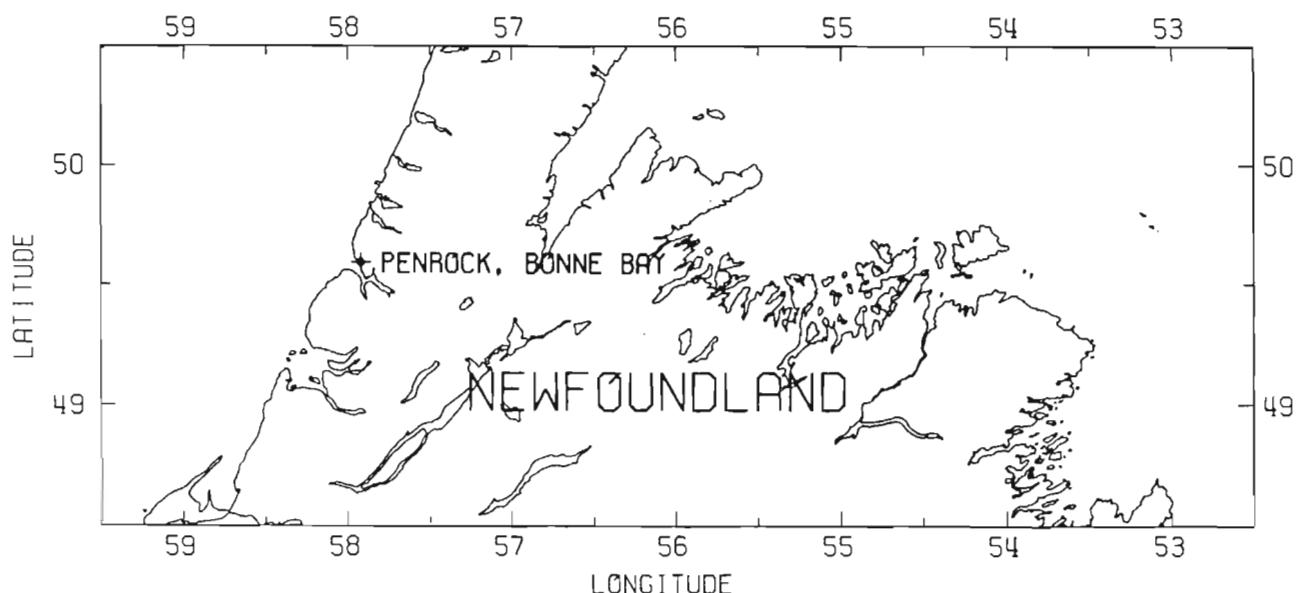
THERMOGRAPH DATA SUMMARY

STATION NAME: PENROCK, BONNE BAY
STATION NUMBER: 119
INSTRUMENT TYPE: Seamon UTR-A (Hugrun)
INSTRUMENT S/N: 3216
LATITUDE: 49.59° N
LONGITUDE: 57.92° W
INSTRUMENT DEPTH: 20 m
WATER DEPTH: 28 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 7-SEP-1989 13:30 GMT
RECOVERY DATE/TIME: 30-MAR-1990 04:30 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN DAY (°C)	MAX DAY (°C)	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.		
SEP-1989	1.90	258	14.60	250	12.01	2.10	289.6	193.6	563
OCT-1989	3.90	302	11.30	274	8.27	1.57	256.5	132.5	744
NOV-1989	2.80	334	6.90	306	5.31	0.83	159.2	40.2	720
DEC-1989	-0.90	365	3.30	336	1.49	1.06	47.1	0.0	744
JAN-1990	-1.40	15	-0.30	1	-1.07	0.33	0.0	0.0	744
FEB-1990	-1.50	45	-1.30	32	-1.38	0.04	0.0	0.0	672
MAR-1990	-1.50	79	-0.90	83	-1.35	0.09	0.0	0.0	701
Total Period	-1.50	45	14.60	250	3.10	4.87	752.3	366.2	4888

302



Start: 7-SEP-1989

End: 30-MAR-1990

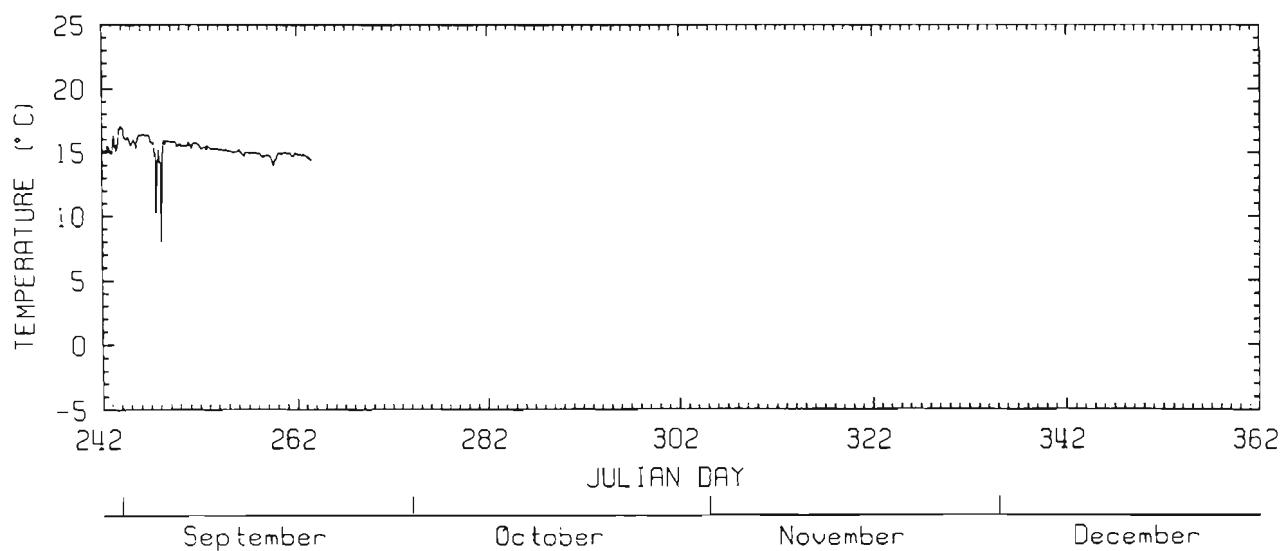
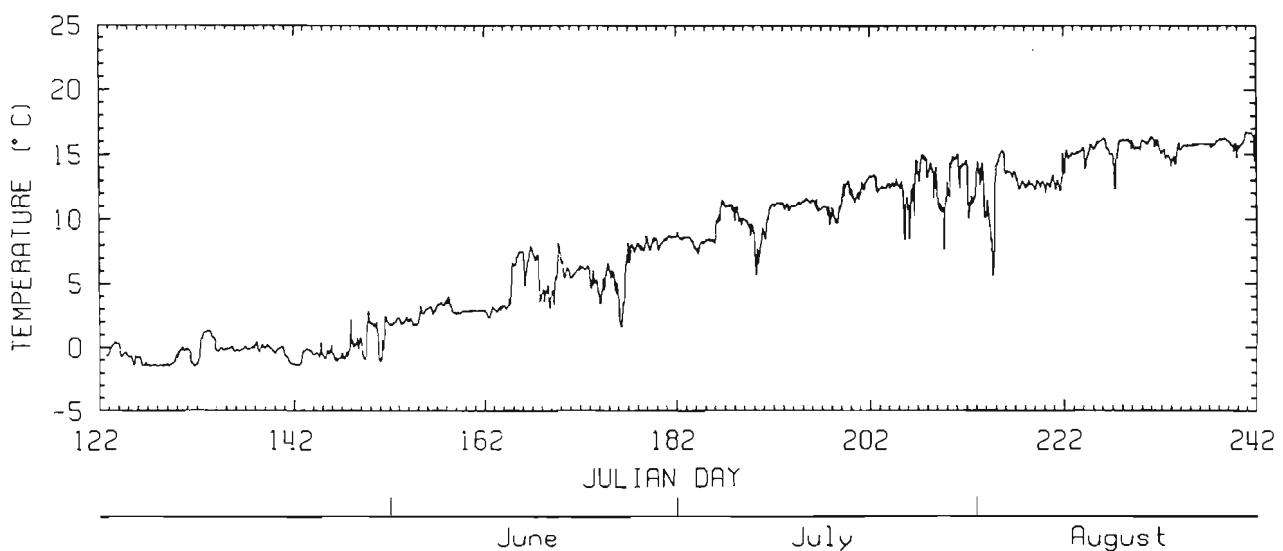
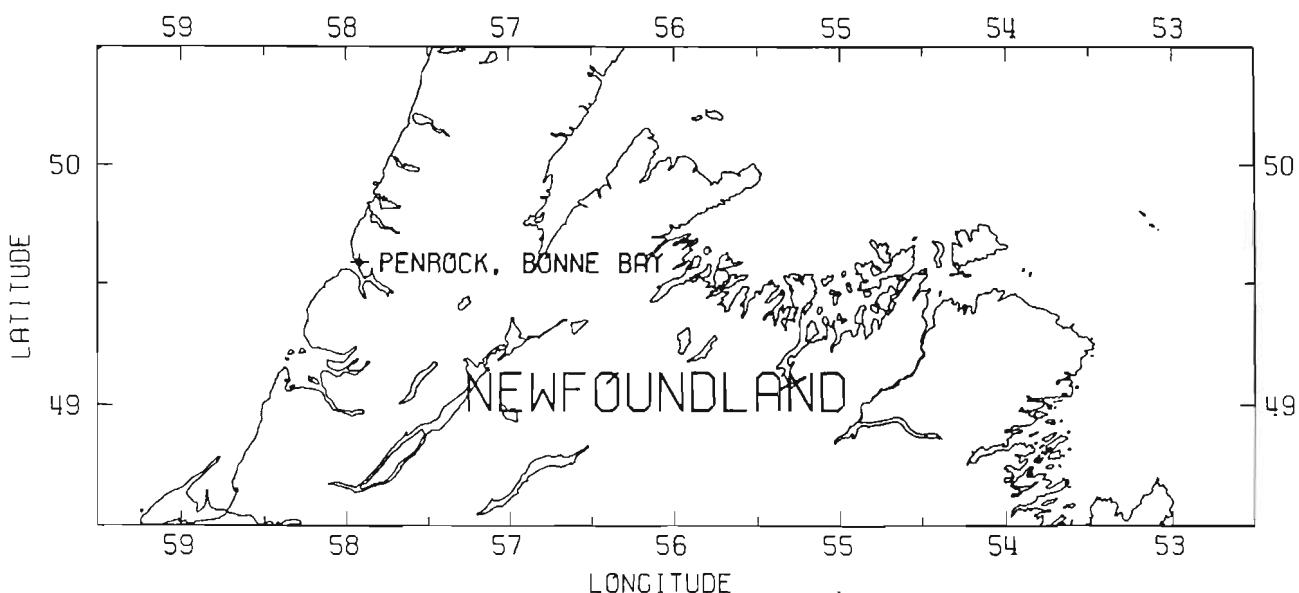
THERMOGRAPH DATA SUMMARY

STATION NAME: PENROCK, BONNE BAY
STATION NUMBER: 119
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5459
LATITUDE: 49.59° N
LONGITUDE: 57.92° W
INSTRUMENT DEPTH: 20 m
WATER DEPTH: 28 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 2-MAY-1990 17:00 GMT
RECOVERY DATE/TIME: 20-SEP-1990 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1990	-1.50	125	2.90	149	-0.30	0.87	4.4	0.0	703
JUN-1990	1.55	176	8.75	178	4.83	2.18	144.8	40.0	720
JUL-1990	5.65	190	15.10	211	11.15	1.89	345.7	221.7	744
AUG-1990	5.60	214	17.00	243	14.74	1.67	456.9	332.9	744
SEP-1990	7.90	248	16.95	244	15.18	0.85	303.3	223.3	470
Total Period	-1.50	125	17.00	243	8.77	6.15	1255.1	817.9	3381

304



Start: 2-MAY-1990

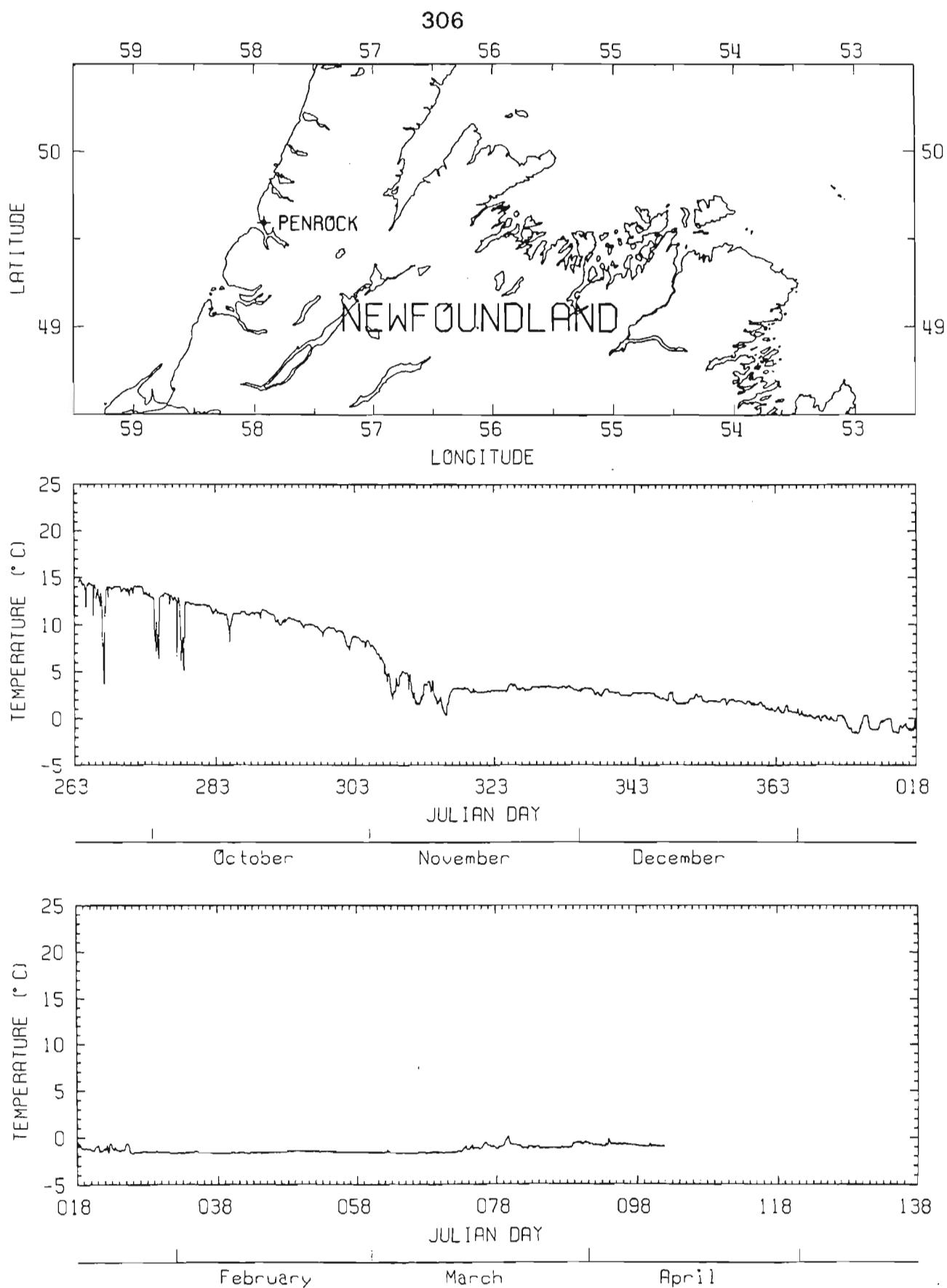
End: 20-SEP-1990

THERMOGRAPH DATA SUMMARY

STATION NAME: PENROCK, BONNE BAY
STATION NUMBER: 119
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 4325
LATITUDE: 49.59° N
LONGITUDE: 57.92° W
INSTRUMENT DEPTH: 28 m
WATER DEPTH: 28 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 20-SEP-1990 15:00 GMT
RECOVERY DATE/TIME: 11-APR-1991 20:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
SEP-1990	3.60	267	14.80	263	13.42	1.57	148.3	104.3	249
OCT-1990	5.10	278	13.30	275	10.57	1.50	327.8	203.8	744
NOV-1990	0.30	316	8.20	305	3.41	1.30	102.2	8.4	720
DEC-1990	0.50	365	3.30	335	2.06	0.68	64.0	0.0	744
JAN-1991	-1.80	25	1.10	1	-0.86	0.71	1.1	0.0	744
FEB-1991	-1.70	32	-1.30	48	-1.59	0.08	0.0	0.0	672
MAR-1991	-1.80	63	0.10	79	-1.25	0.38	0.0	0.0	744
APR-1991	-1.00	92	-0.20	93	-0.84	0.13	0.0	0.0	261
Total Period	-1.80	25	14.80	263	2.53	4.88	643.5	316.5	4878



Start: 20-SEP-1990

End: 11-APR-1991

Appendix 14. Time Series Plots and Monthly Statistics
from Freshwater Sites around Newfoundland.



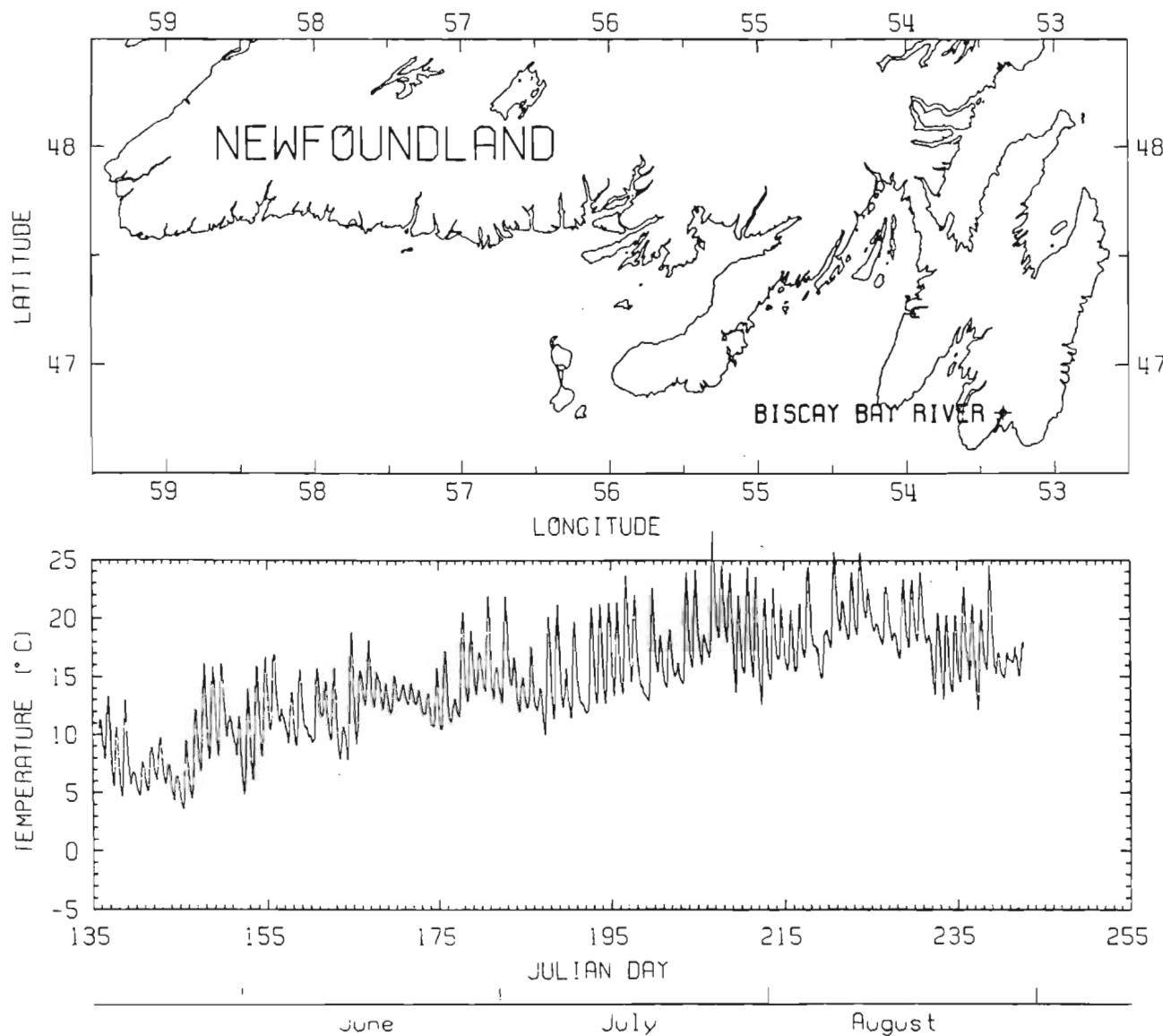
THERMOGRAPH DATA SUMMARY

STATION NAME: BISCAY BAY RIVER
STATION NUMBER: 112
INSTRUMENT TYPE: Ryan TempMentor
INSTRUMENT S/N: 900653
LATITUDE: 46.78° N
LONGITUDE: 53.35° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 15-MAY-1990 18:20 GMT
RECOVERY DATE/TIME: 30-AUG-1990 16:20 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1990	3.50	145	16.20	147	8.52	2.88	146.7	78.7	390
JUN-1990	4.80	152	22.00	180	12.90	2.72	386.9	266.9	720
JUL-1990	9.90	187	27.60	206	16.69	3.37	517.4	393.4	744
AUG-1990	12.10	237	25.80	220	18.49	2.62	554.0	434.0	713
Total Period	3.50	145	27.60	206	14.88	4.51	1605.1	1173.1	2567

310



Start: 15-MAY-1990

End: 30-AUG-1990

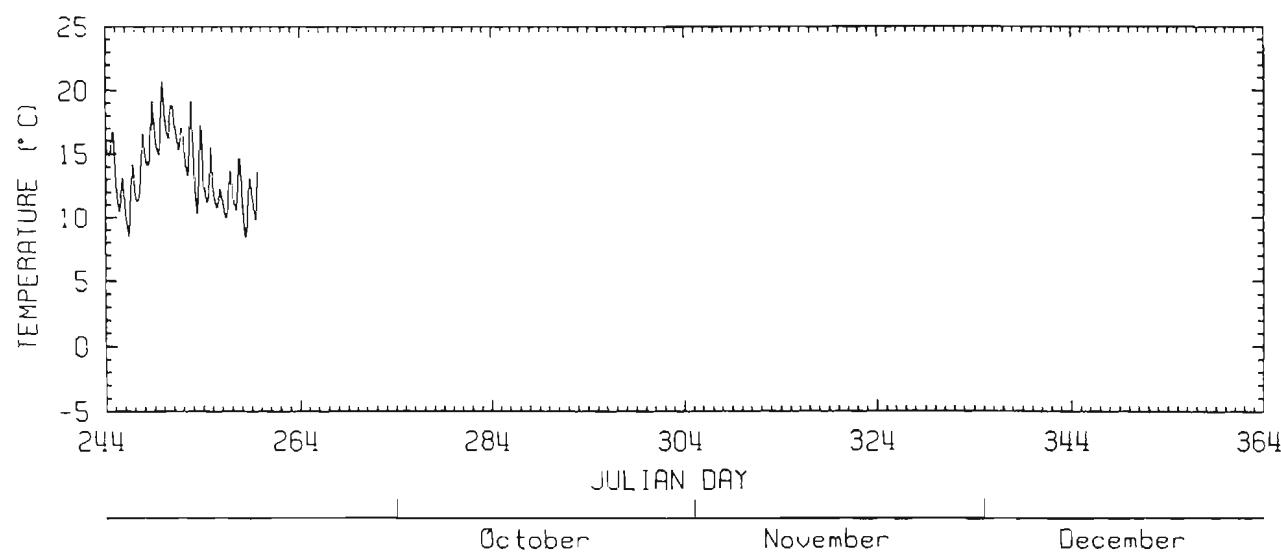
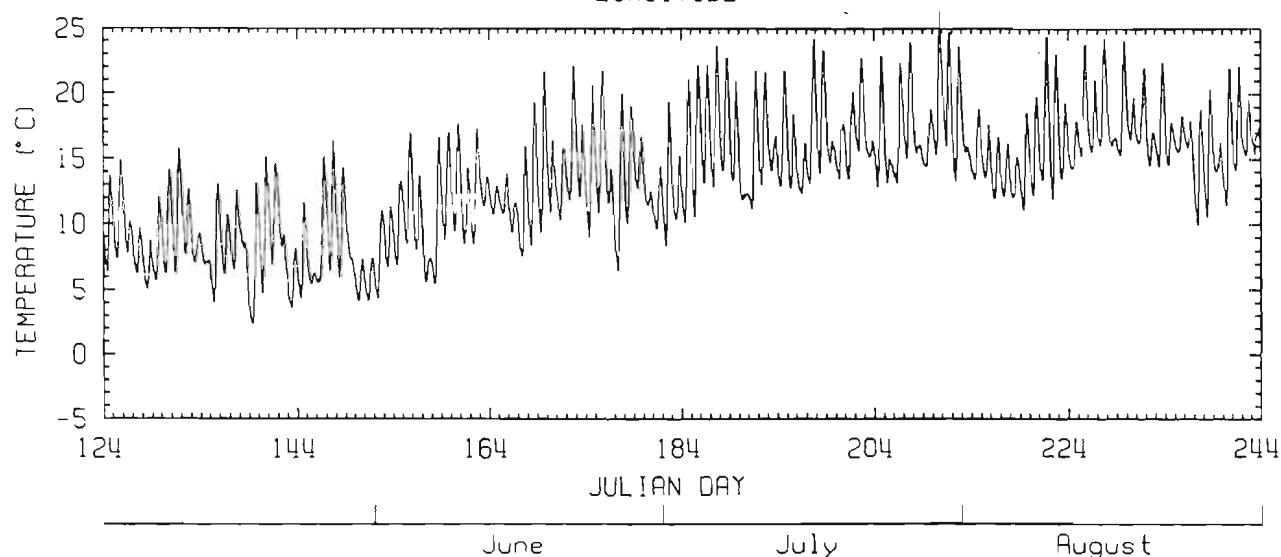
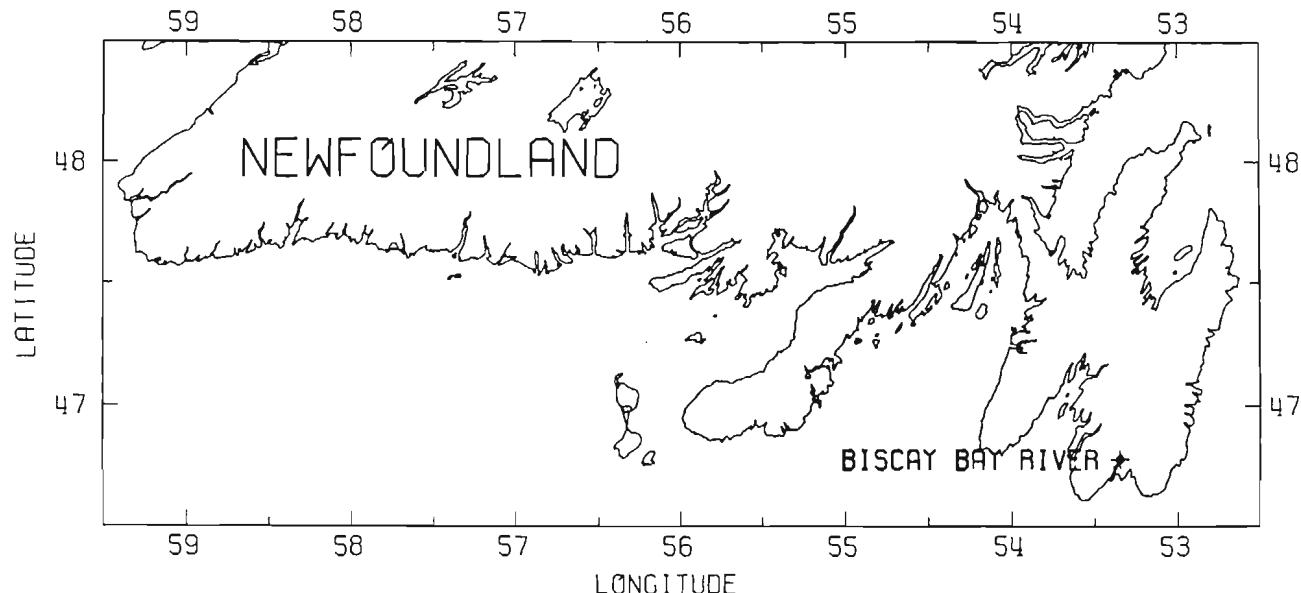
THERMOGRAPH DATA SUMMARY

STATION NAME: BISCAY BAY RIVER
STATION NUMBER: 112
INSTRUMENT TYPE: Ryan TempMentor
INSTRUMENT S/N: 900285
LATITUDE: 46.78° N
LONGITUDE: 53.35° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 4-MAY-1991 00:14 GMT
RECOVERY DATE/TIME: 16-SEP-1991 14:14 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1991	2.30	139	16.40	147	8.48	2.84	237.6	125.6	672
JUN-1991	4.30	152	22.20	172	12.25	3.46	367.6	247.6	720
JUL-1991	8.30	182	26.40	210	16.37	3.36	507.5	383.5	744
AUG-1991	10.00	237	24.40	221	16.31	2.67	505.5	381.5	744
SEP-1991	8.40	246	20.80	249	13.66	2.76	217.5	153.5	375
Total Period	2.30	139	26.40	210	13.51	4.32	1835.8	1291.8	3255

312



Start: 4-MAY-1991

End: 16-SEP-1991

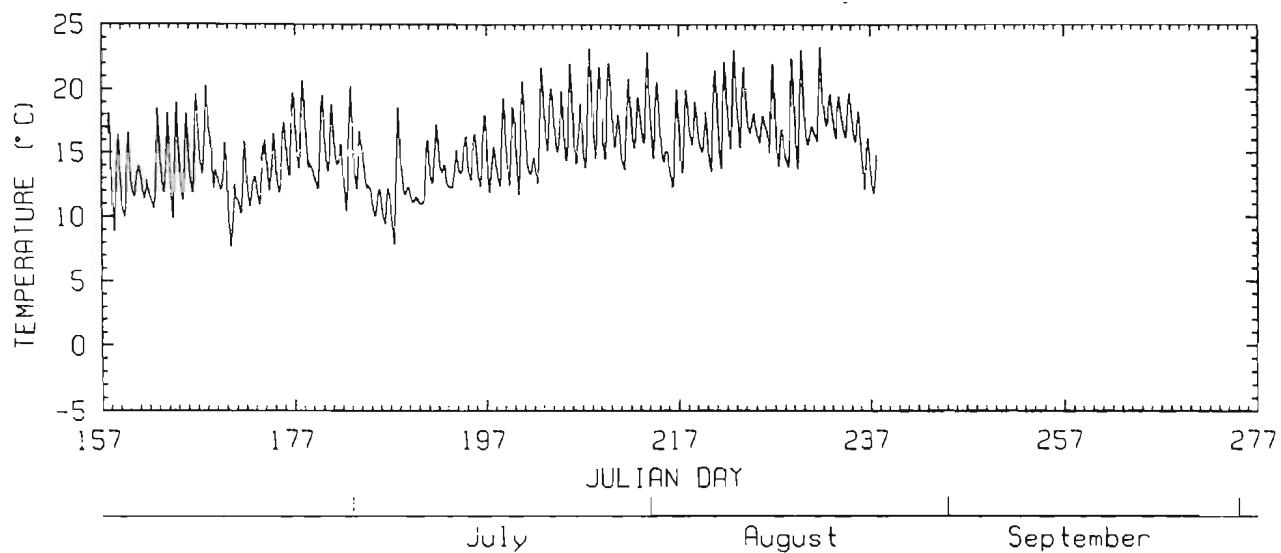
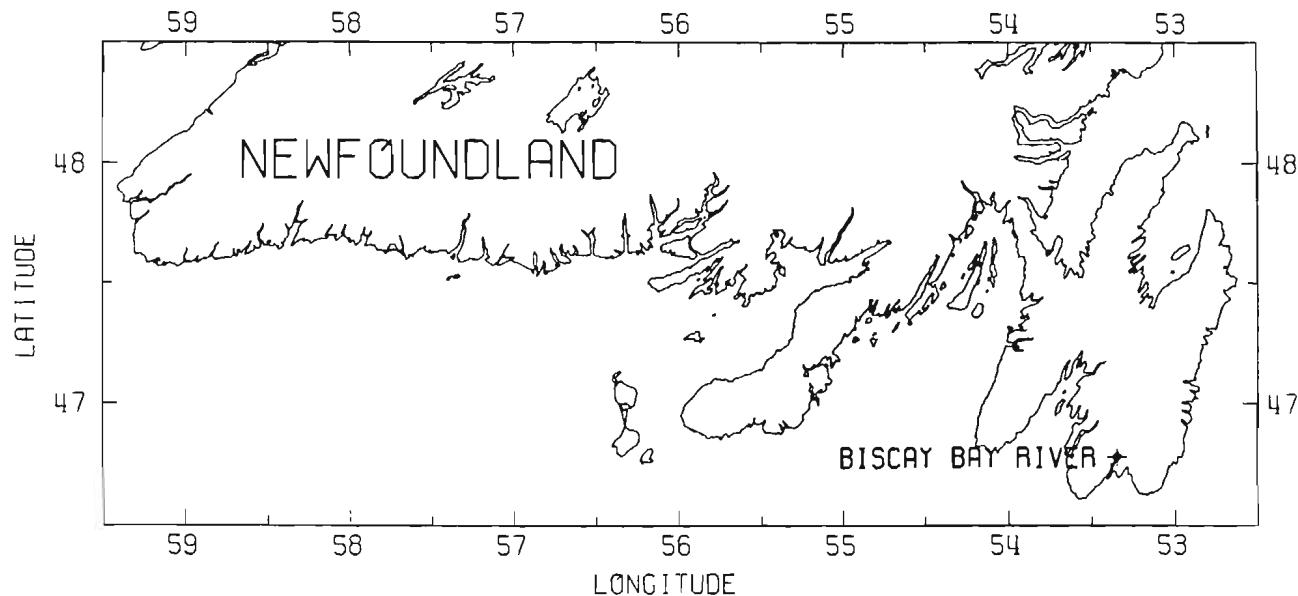
THERMOGRAPH DATA SUMMARY

STATION NAME: BISCAY BAY RIVER
STATION NUMBER: 112
INSTRUMENT TYPE: Ryan TempMentor
INSTRUMENT S/N: 900285
LATITUDE: 46.78° N
LONGITUDE: 53.35° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 5-JUN-1992 16:40 GMT
RECOVERY DATE/TIME: 24-AUG-1992 15:40 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-1992	7.60	170	20.70	177	13.98	2.60	365.2	261.2	608
JUL-1992	7.80	187	23.20	207	15.06	3.00	466.9	342.8	744
AUG-1992	11.80	237	23.30	231	16.99	2.37	406.4	310.4	568
Total Period	7.60	170	23.30	231	15.29	2.95	1238.5	914.5	1920

314



Start: 5-JUN-1992

End: 24-AUG-1992

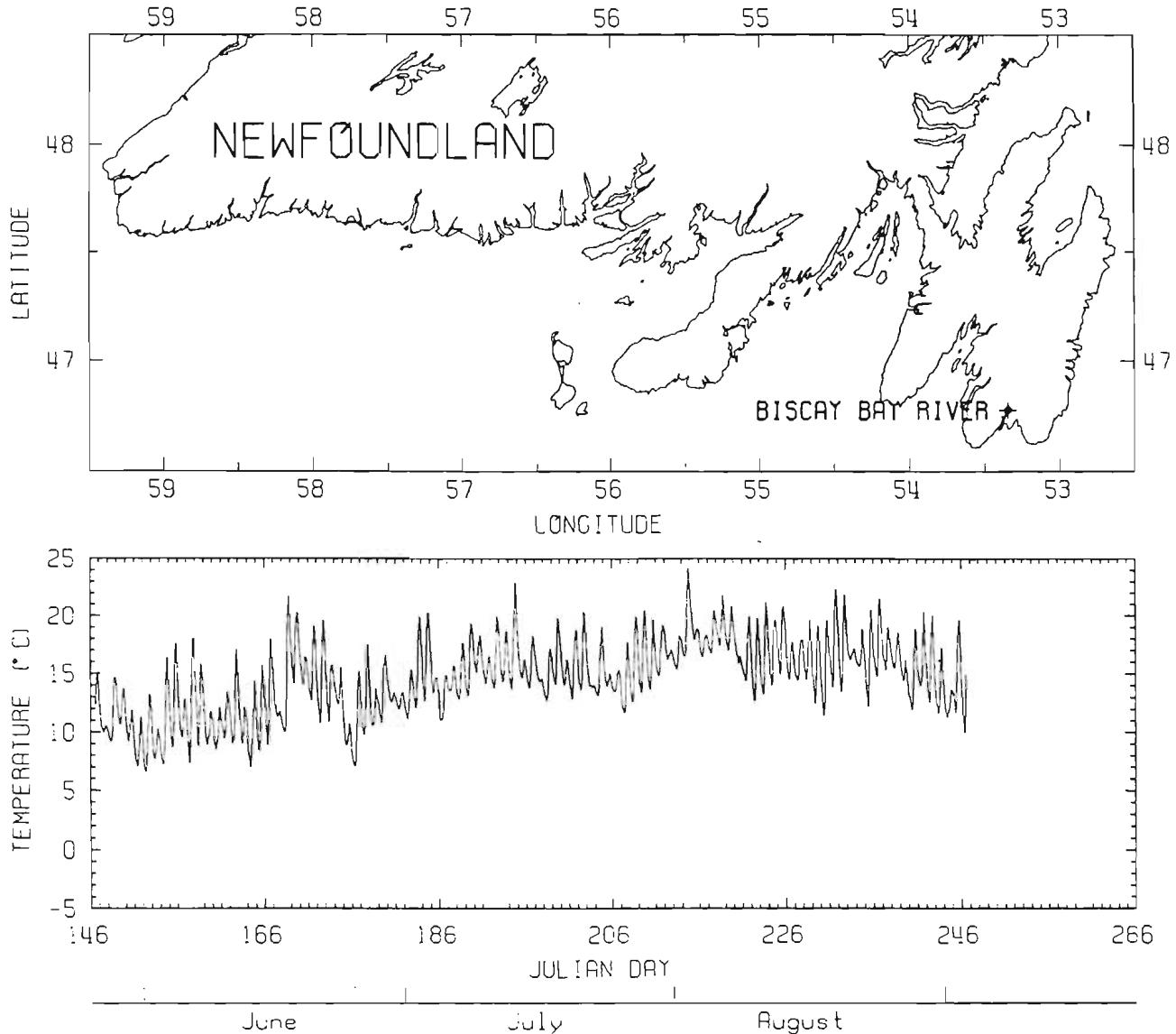
THERMOGRAPH DATA SUMMARY

STATION NAME: BISCAY BAY RIVER
STATION NUMBER: 112
INSTRUMENT TYPE: Ryan TempMentor
INSTRUMENT S/N: 900653
LATITUDE: 46.78° N
LONGITUDE: 53.35° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 26-MAY-1993 14:23 GMT
RECOVERY DATE/TIME: 3-SEP-1993 14:23 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-1993	7.00	151	15.30	146	10.98	1.93	67.7	43.7	130
JUN-1993	6.50	152	21.80	168	12.32	3.00	369.5	249.5	720
JUL-1993	11.10	182	22.90	194	15.45	2.15	479.1	355.1	744
AUG-1993	11.40	230	24.20	214	16.80	2.28	520.9	396.9	744
SEP-1993	9.90	246	19.70	245	13.44	2.40	39.9	27.9	63
Total Period	6.50	152	24.20	214	14.64	3.18	1477.0	1073.0	2401

316



Start: 26-MAY-1993

End: 3-SEP-1993

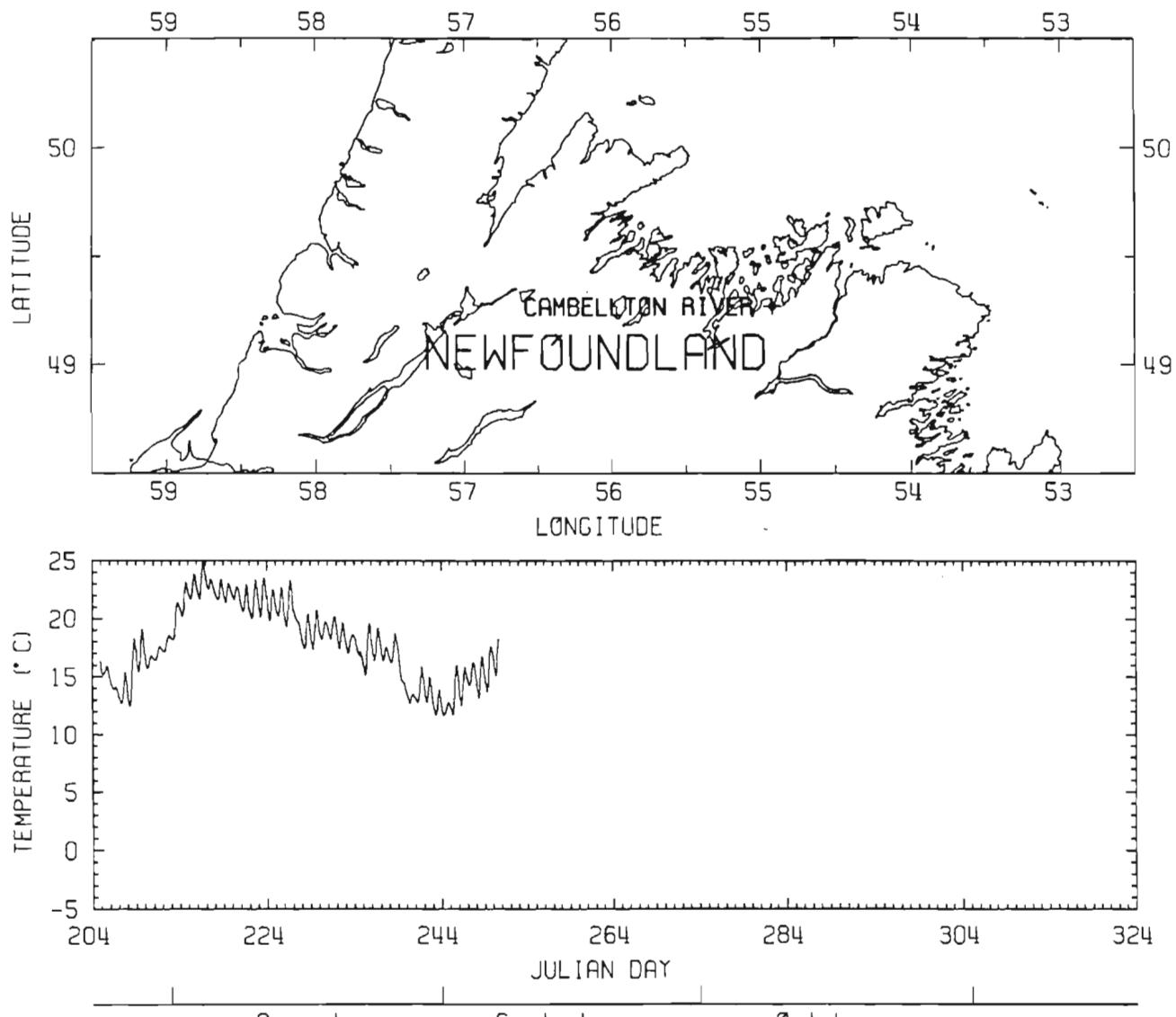
THERMOGRAPH DATA SUMMARY

STATION NAME: CAMPBELLTON RIVER
STATION NUMBER: 181
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 4325
LATITUDE: 49.27° N
LONGITUDE: 54.92° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 30 min.
DEPLOYMENT DATE/TIME: 23-JUL-1993 22:00 GMT
RECOVERY DATE/TIME: 7-SEP-1993 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUL-1993	12.40	208	19.10	209	15.82	1.72	142.7	106.7	388
AUG-1993	11.70	243	24.90	216	19.10	3.12	592.1	468.1	1488
SEP-1993	11.70	244	18.30	250	14.51	1.68	102.2	74.2	319
Total Period	11.70	243	24.90	216	17.85	3.31	837.0	649.0	2195

318



Start: 23-JUL-1993

End: 7-SEP-1993

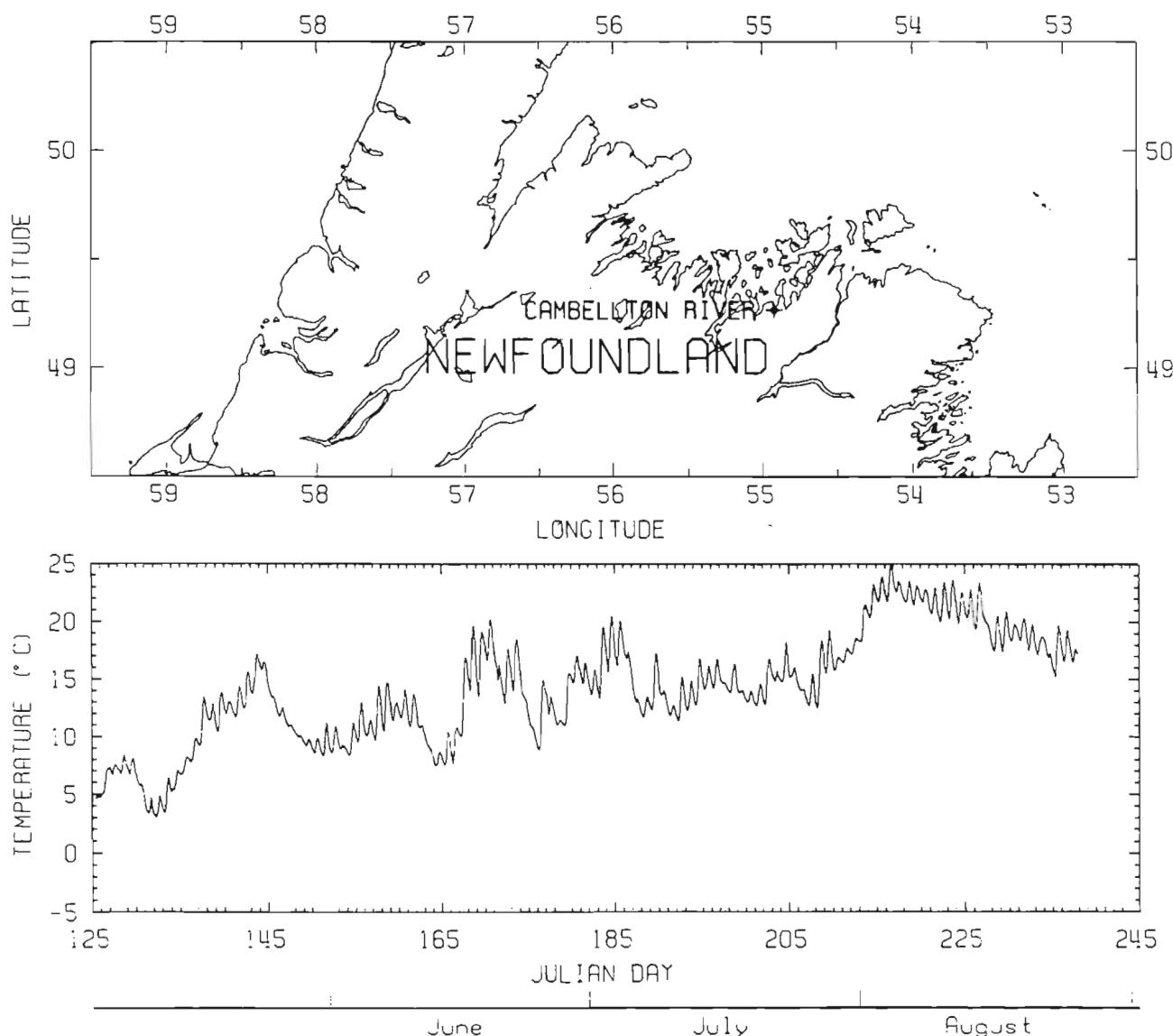
THERMOGRAPH DATA SUMMARY

STATION NAME: CAMBELLTON RIVER
STATION NUMBER: 181
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 7821
LATITUDE: 49.27° N
LONGITUDE: 54.92° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 30 min.
DEPLOYMENT DATE/TIME: 5-MAY-1993 11:00 GMT
RECOVERY DATE/TIME: 25-AUG-1993 22:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-1993	3.00	132	17.20	143	9.48	3.52	253.8	146.2	1274
JUN-1993	7.50	164	20.20	170	12.54	3.02	376.2	256.2	1440
JUL-1993	11.40	192	20.50	184	15.03	1.94	465.8	341.8	1488
AUG-1993	15.20	235	25.00	216	20.36	2.14	508.8	408.8	1196
Total Period	3.00	132	25.00	216	14.24	4.69	1604.5	1153.0	5398

320



Start: 5-MAY-1993

End: 25-AUG-1993

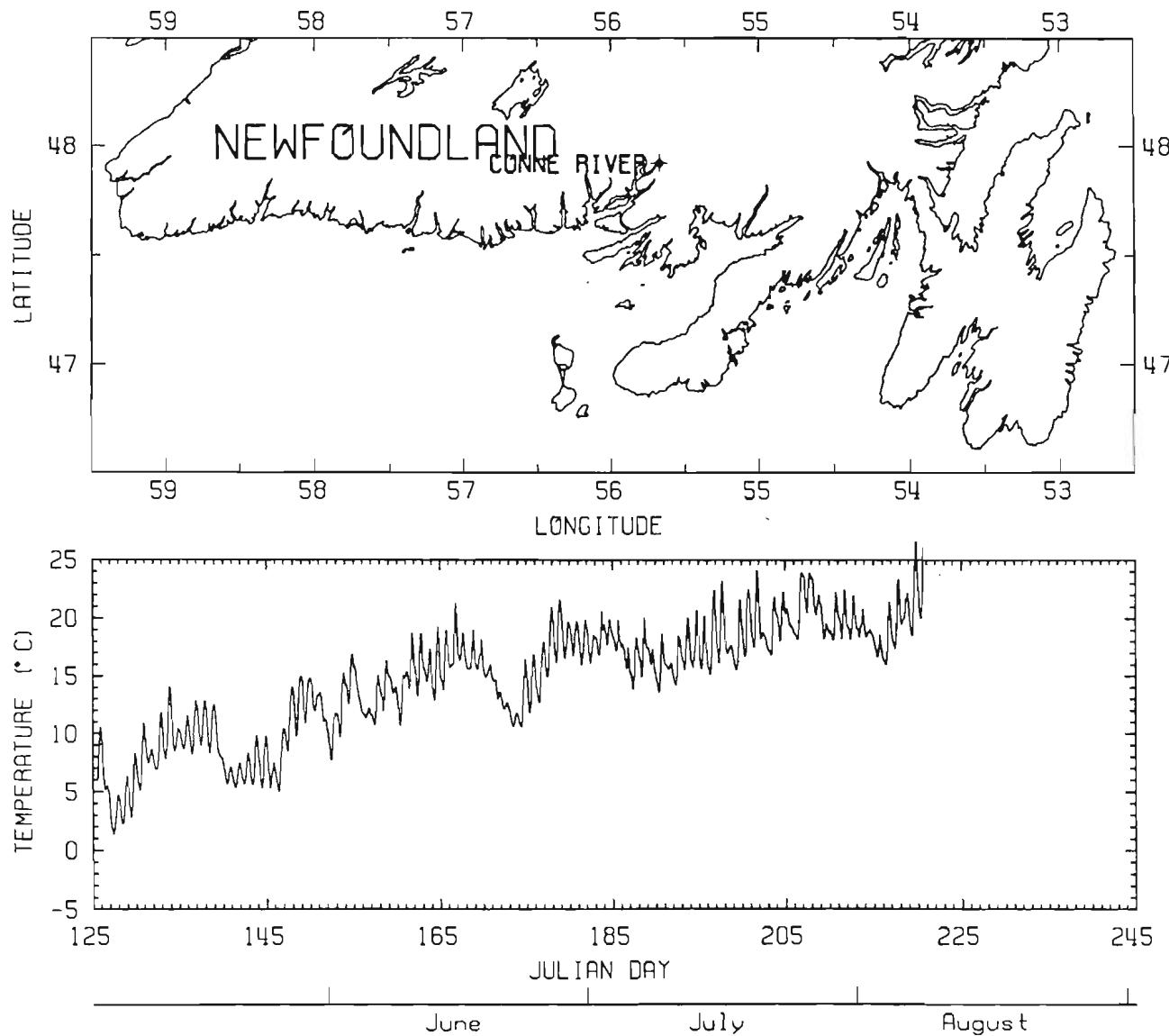
THERMOGRAPH DATA SUMMARY

STATION NAME: CONNE RIVER
STATION NUMBER: 133
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5454
LATITUDE: 47.92° N
LONGITUDE: 55.67° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 5-MAY-1990 14:00 GMT
RECOVERY DATE/TIME: 8-AUG-1990 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1990	1.35	127	14.95	148	8.59	3.05	232.0	125.5	634
JUN-1990	7.65	152	21.60	178	14.98	2.71	449.4	329.4	720
JUL-1990	13.55	190	24.15	201	18.51	2.24	573.8	449.8	744
AUG-1990	15.95	216	26.60	219	19.58	2.20	157.4	125.4	184
Total Period	1.35	127	26.60	219	14.73	4.90	1412.6	1030.1	2282

322



Start: 5-MAY-1990

End: 8-AUG-1990

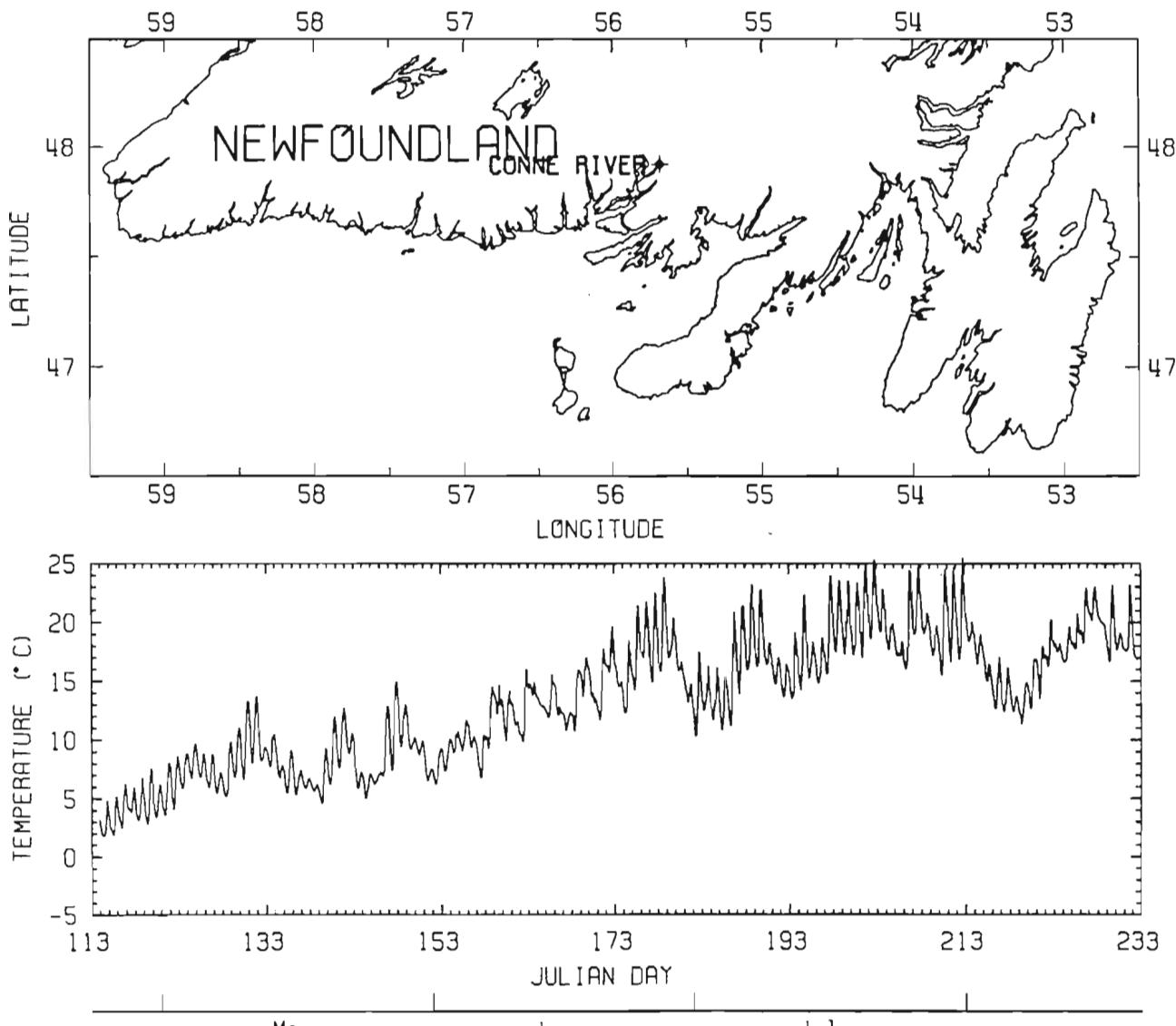
THERMOGRAPH DATA SUMMARY

STATION NAME: CONNE RIVER
STATION NUMBER: 133
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5454
LATITUDE: 47.92° N
LONGITUDE: 55.68° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 23-APR-1991 22:00 GMT
RECOVERY DATE/TIME: 20-AUG-1991 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
APR-1991	1.80	114	7.55	119	4.10	1.41	31.9	2.8	170
MAY-1991	3.60	121	14.95	147	8.08	2.15	250.6	126.6	744
JUN-1991	6.20	152	23.80	178	13.62	3.45	408.5	288.5	720
JUL-1991	10.25	182	25.50	212	18.00	3.24	557.9	433.9	744
AUG-1991	11.30	219	23.25	231	17.37	2.71	347.5	267.5	471
Total Period	1.80	114	25.50	212	13.37	5.38	1596.3	1119.2	2849

324



Start: 23-APR-1991

End: 20-AUG-1991

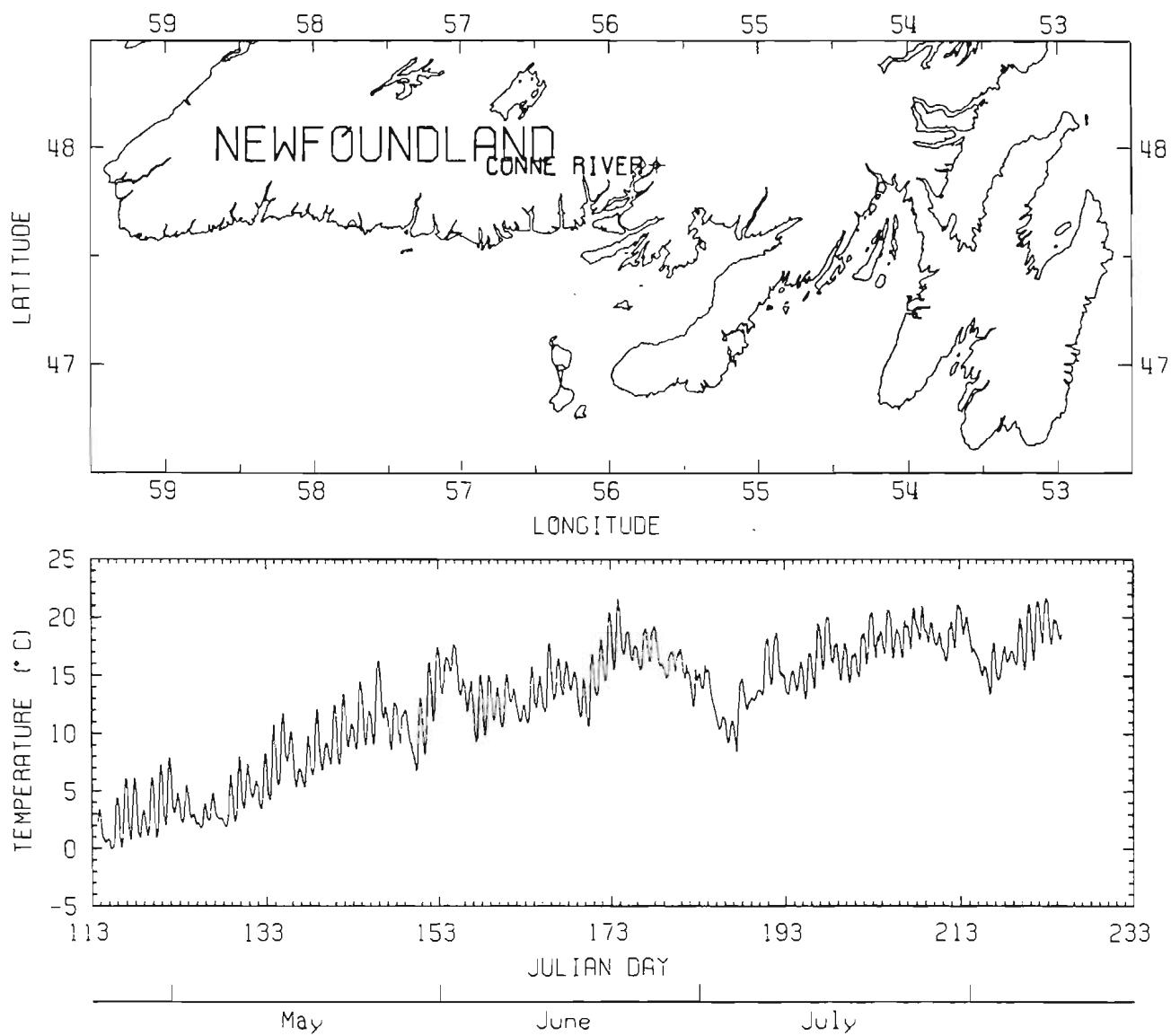
THERMOGRAPH DATA SUMMARY

STATION NAME: CONNE RIVER
STATION NUMBER: 133
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 6596
LATITUDE: 47.92° N
LONGITUDE: 55.68° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 22-APR-1992 17:00 GMT
RECOVERY DATE/TIME: 11-AUG-1992 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
APR-1992	0.00	115	7.95	121	2.88	2.07	26.0	0.8	199
MAY-1992	1.80	125	17.50	152	7.80	3.68	241.9	123.3	744
JUN-1992	9.30	157	21.65	173	14.87	2.35	446.1	326.1	720
JUL-1992	8.50	187	21.10	212	16.23	2.79	503.0	379.0	744
AUG-1992	13.40	216	21.65	222	17.54	1.96	193.3	149.3	258
Total Period	0.00	115	21.65	173	12.64	5.39	1410.3	978.5	2665

326



Start: 22-APR-1992

End: 11-AUG-1992

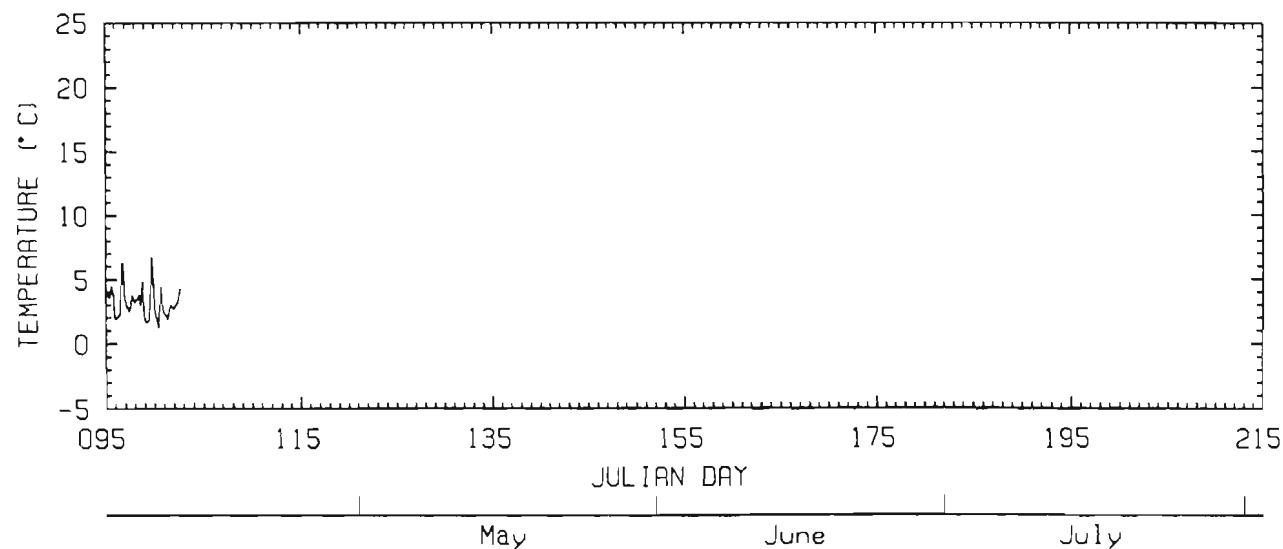
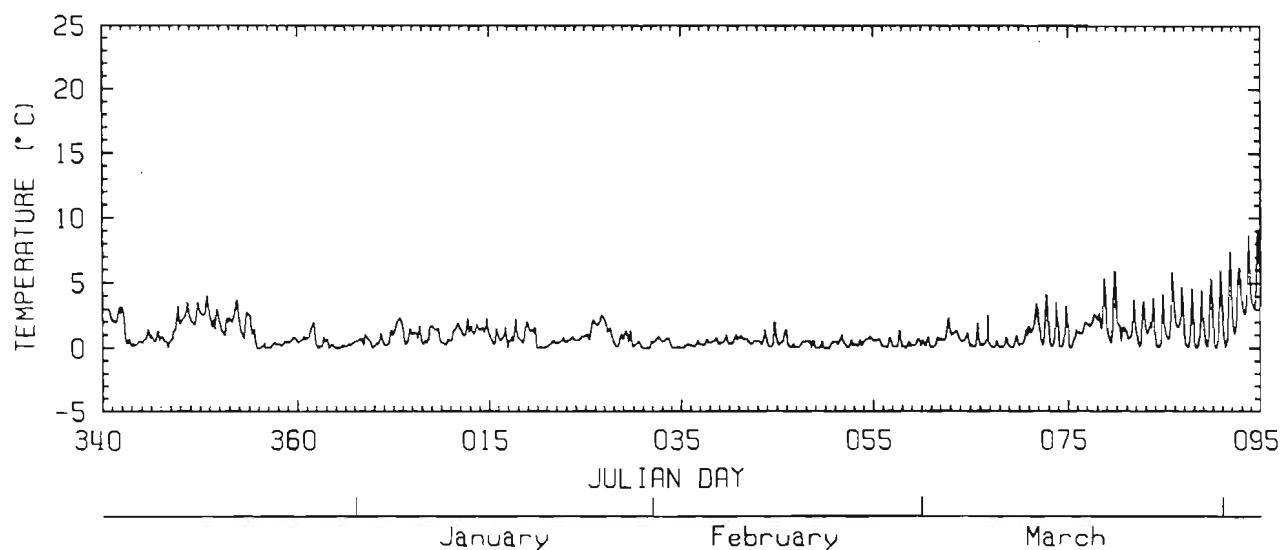
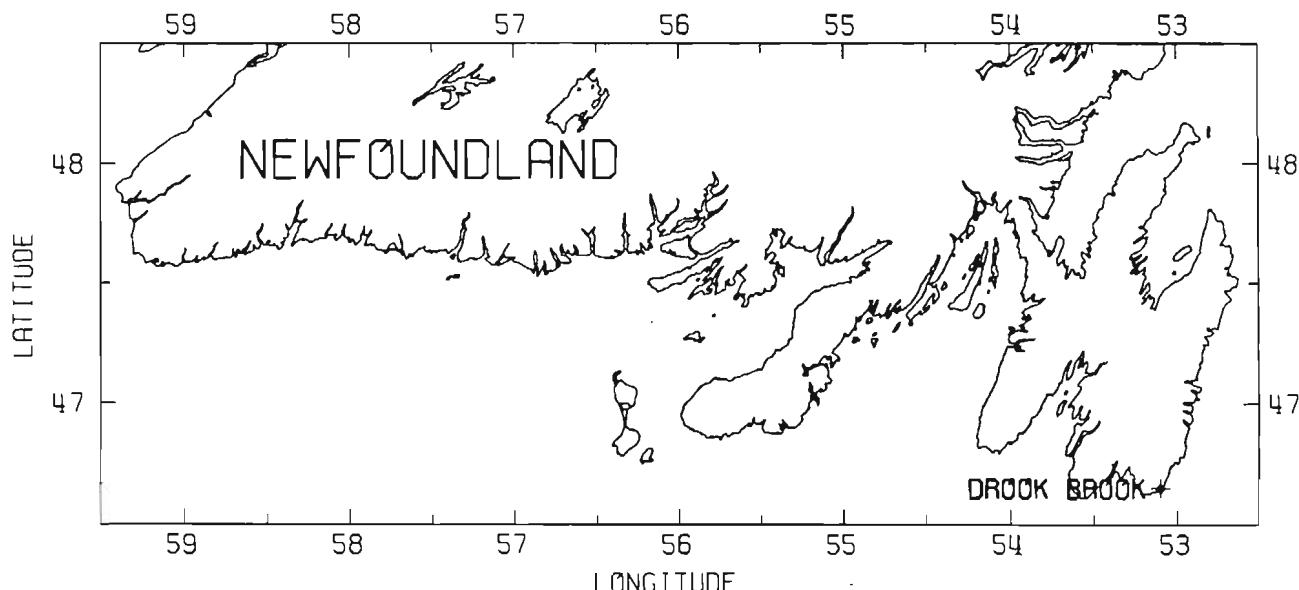
THERMOGRAPH DATA SUMMARY

STATION NAME: DROOK BROOK
STATION NUMBER: 132
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3213
LATITUDE: 46.65° N
LONGITUDE: 53.10° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 6-DEC-1989 17:00 GMT
RECOVERY DATE/TIME: 12-APR-1990 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
DEC-1989	0.00	346	4.00	350	1.17	1.02	31.4	0.0	607
JAN-1990	0.00	2	2.50	26	0.89	0.61	27.7	0.0	744
FEB-1990	0.00	34	2.00	44	0.41	0.32	11.4	0.0	672
MAR-1990	0.00	61	5.90	79	1.32	1.27	40.9	0.0	744
APR-1990	0.10	91	9.10	94	3.46	1.70	41.4	1.8	281
Total Period	0.00	346	9.10	94	1.18	1.27	152.8	1.8	3048

328



Start: 6-DEC-1989

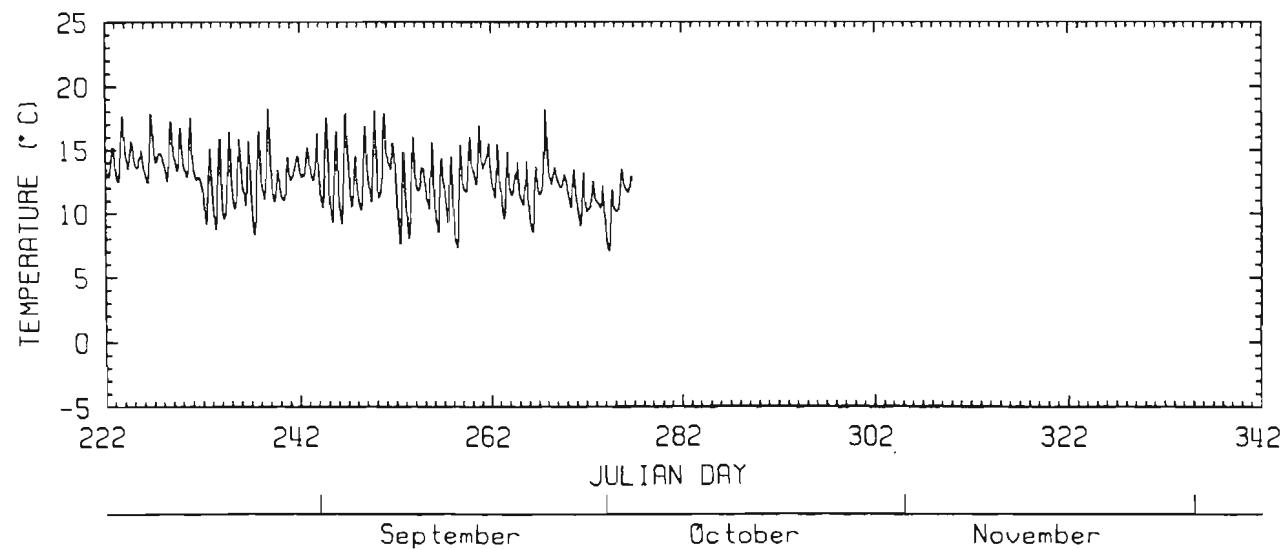
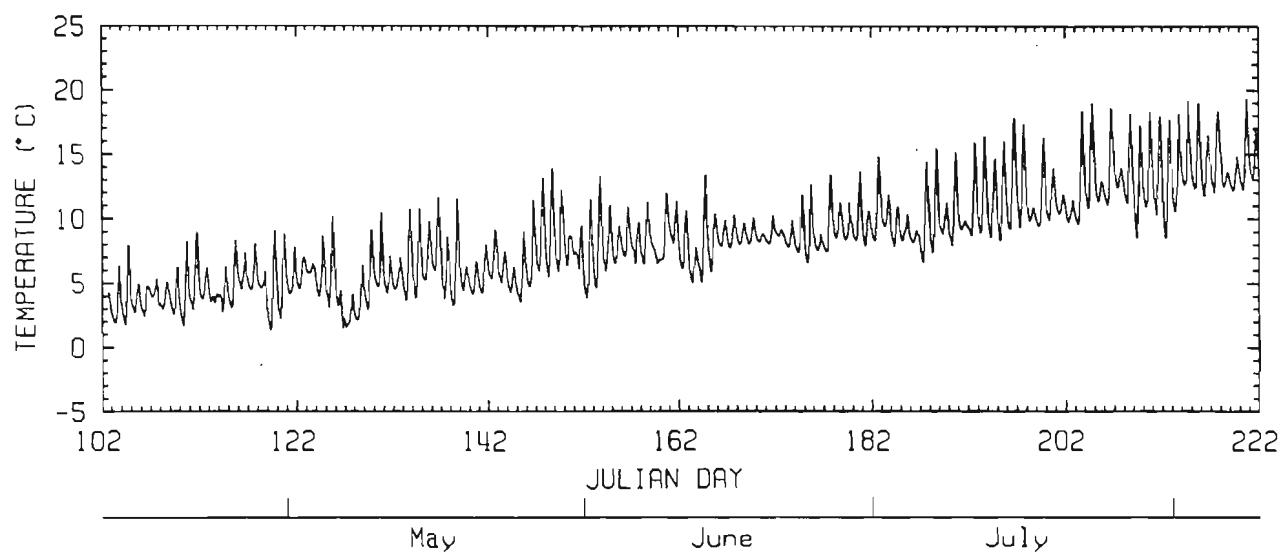
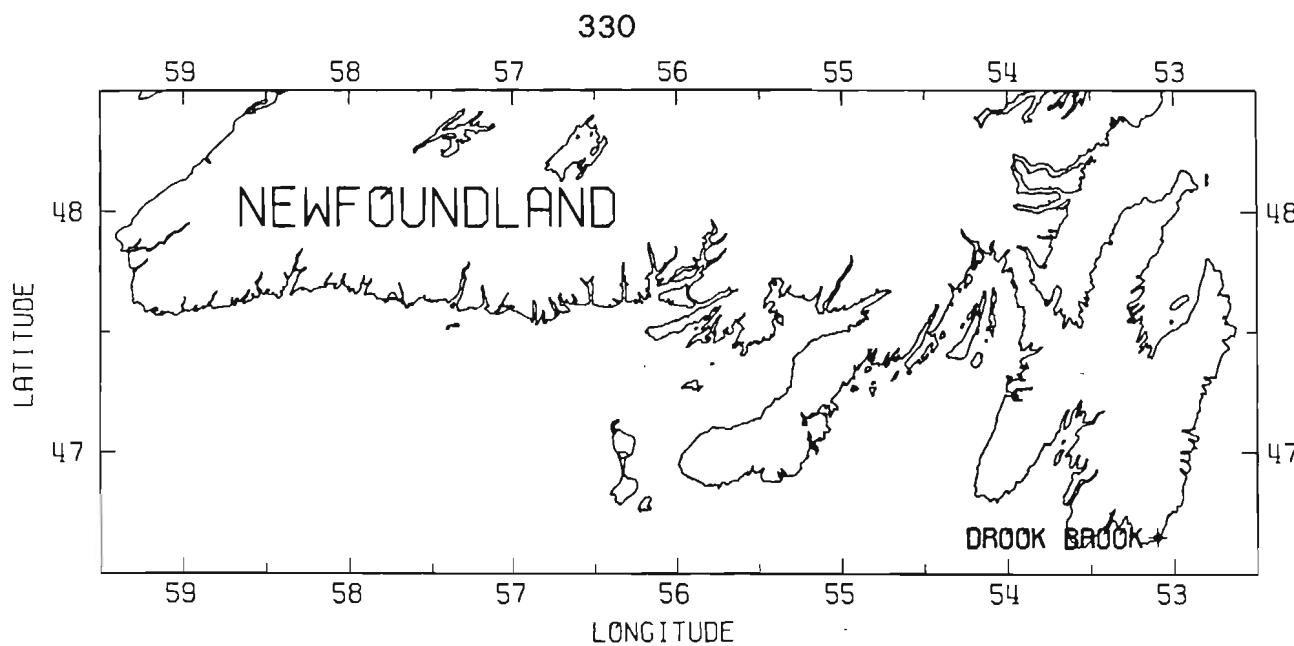
End: 12-APR-1990

THERMOGRAPH DATA SUMMARY

STATION NAME: DROOK BROOK
STATION NUMBER: 132
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3262
LATITUDE: 46.65° N
LONGITUDE: 53.10° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 12-APR-1990 17:00 GMT
RECOVERY DATE/TIME: 3-OCT-1990 20:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
APR-1990	1.30	119	9.10	119	4.42	1.65	83.4	9.5	439
MAY-1990	1.40	126	13.85	148	6.12	2.22	189.7	68.2	744
JUN-1990	3.85	152	13.65	180	8.50	1.69	254.9	134.9	720
JUL-1990	6.65	187	18.95	204	11.51	2.65	357.0	233.0	744
AUG-1990	8.30	237	19.30	220	13.60	1.99	421.6	297.6	744
SEP-1990	7.30	258	18.15	267	12.33	2.09	369.8	249.8	720
OCT-1990	7.05	274	13.40	275	10.78	1.79	32.5	20.5	69
Total Period	1.30	119	19.30	220	9.79	3.79	1708.8	1013.3	4180



Start: 12-APR-1990

End: 3-OCT-1990

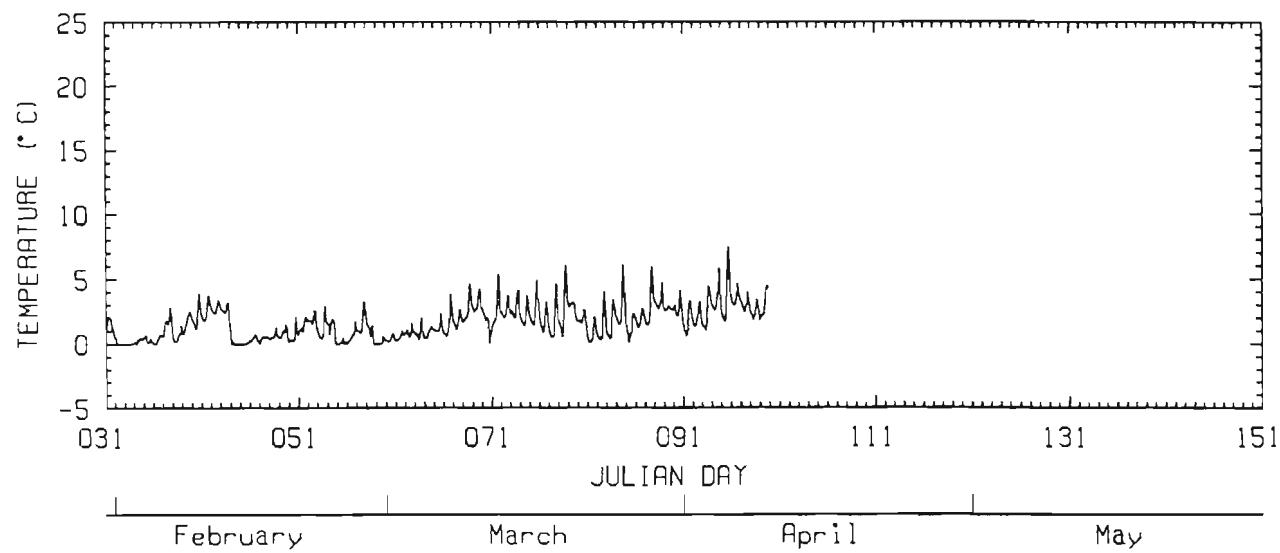
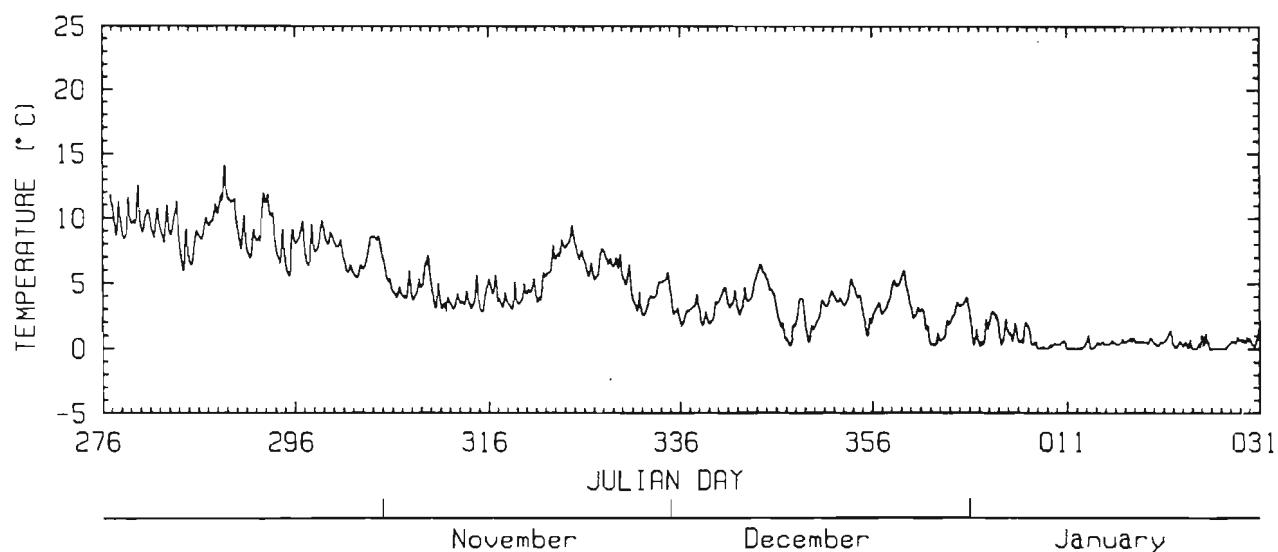
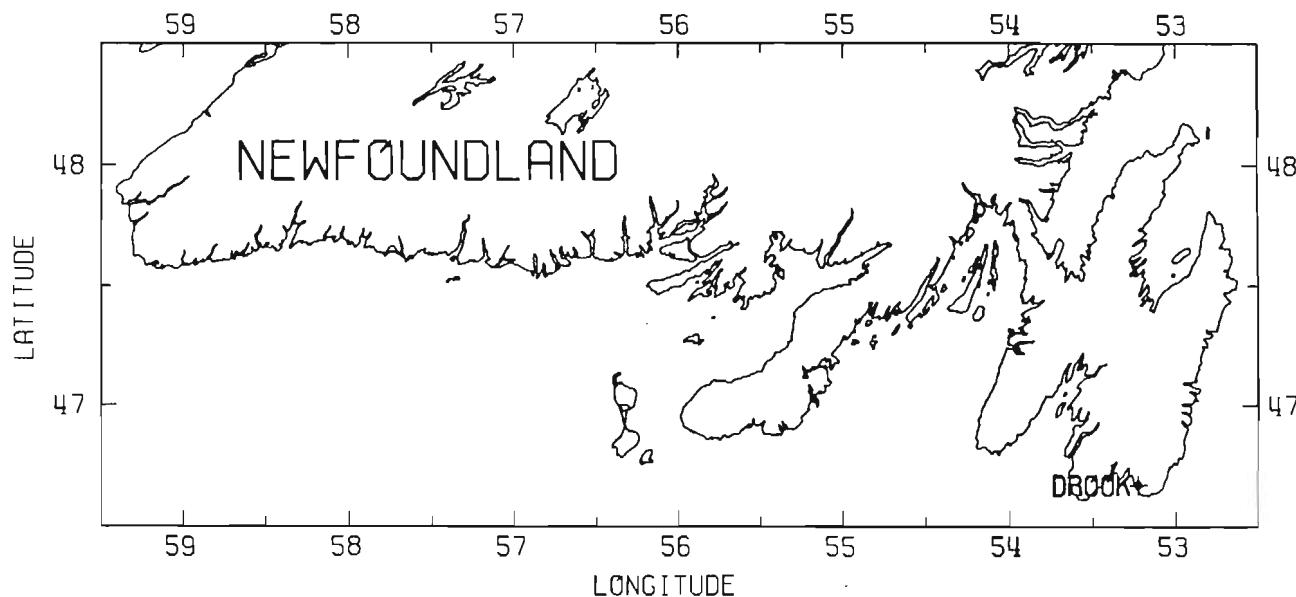
THERMOGRAPH DATA SUMMARY

STATION NAME: DROOK
STATION NUMBER: 132
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5457
LATITUDE: 46.67° N
LONGITUDE: 53.23° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 3-OCT-1990 21:00 GMT
RECOVERY DATE/TIME: 9-APR-1991 20:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
OCT-1990	5.40	302	14.10	288	8.77	1.67	256.6	140.6	675
NOV-1990	2.50	332	9.40	324	4.96	1.50	148.7	32.6	720
DEC-1990	0.20	347	6.40	344	3.07	1.35	95.2	4.9	744
JAN-1991	0.00	7	2.90	1	0.60	0.60	18.5	0.0	744
FEB-1991	0.00	32	3.90	40	0.97	0.96	27.0	0.0	672
MAR-1991	0.00	70	6.10	84	1.97	1.23	61.2	0.0	744
APR-1991	0.60	91	7.40	95	2.82	1.24	25.4	0.0	213
Total Period	0.00	7	14.10	288	3.31	2.97	632.6	178.1	4512

332



Start: 3-OCT-1990

End: 9-APR-1991

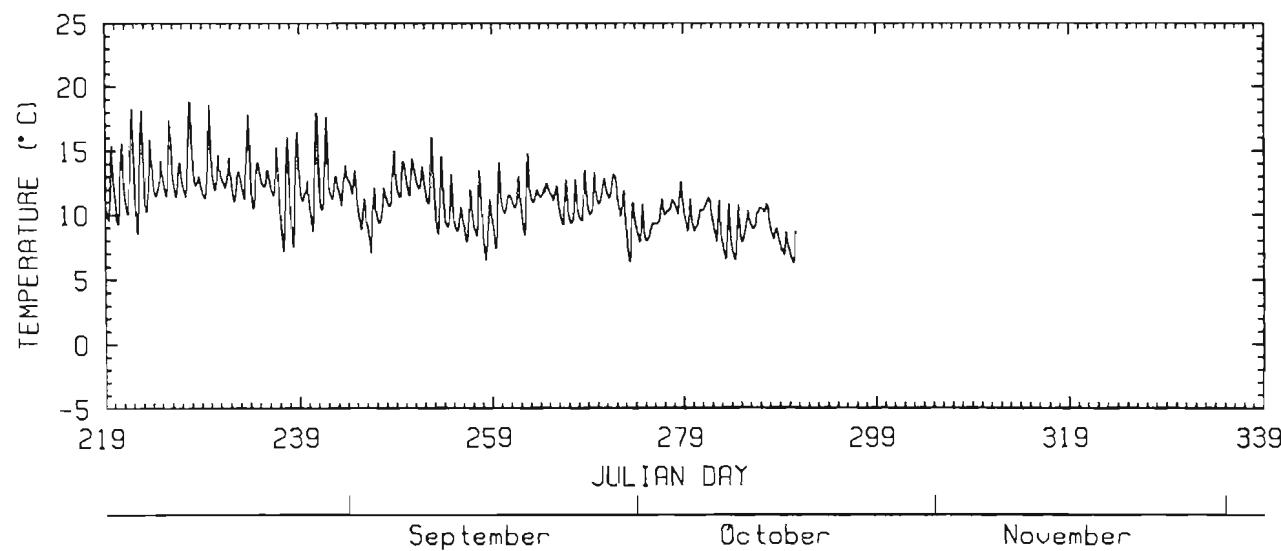
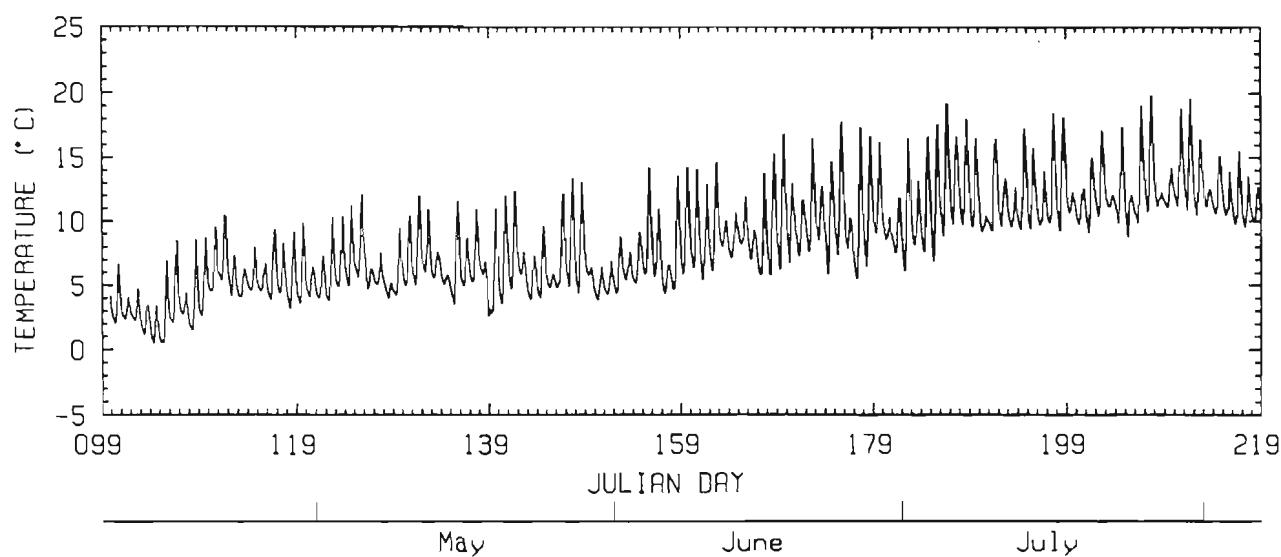
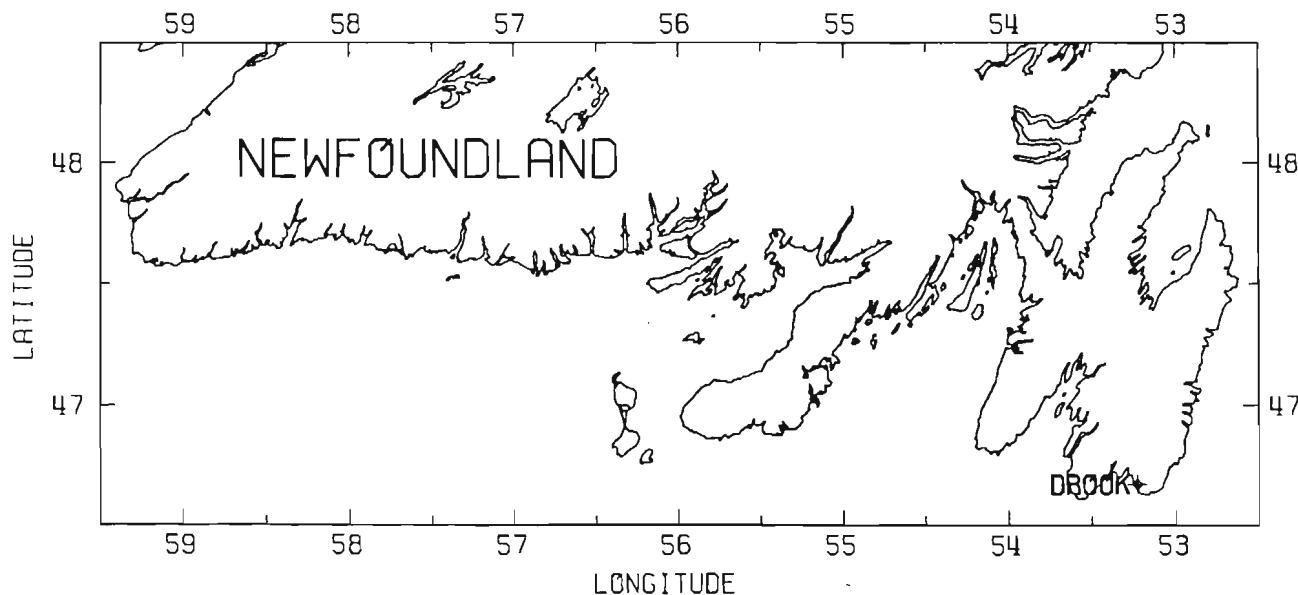
THERMOGRAPH DATA SUMMARY

STATION NAME: DROOK
STATION NUMBER: 132
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5456
LATITUDE: 46.67° N
LONGITUDE: 53.23° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 9-APR-1991 21:00 GMT
RECOVERY DATE/TIME: 17-OCT-1991 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
APR-1991	0.45	104	10.45	111	4.56	2.13	99.7	20.6	507
MAY-1991	2.65	139	13.30	147	6.45	2.11	200.0	76.0	744
JUN-1991	4.35	152	17.80	175	9.13	2.89	273.9	153.9	720
JUL-1991	6.10	182	19.80	207	12.19	2.67	377.9	253.9	744
AUG-1991	7.10	237	18.80	227	12.45	2.06	385.9	261.9	744
SEP-1991	6.30	273	16.00	252	10.96	1.70	328.8	208.8	720
OCT-1991	6.25	290	12.55	278	9.22	1.33	156.0	88.0	401
Total Period	0.45	104	19.80	207	9.52	3.49	1822.2	1063.1	4580

334



Start: 9-APR-1991

End: 17-OCT-1991

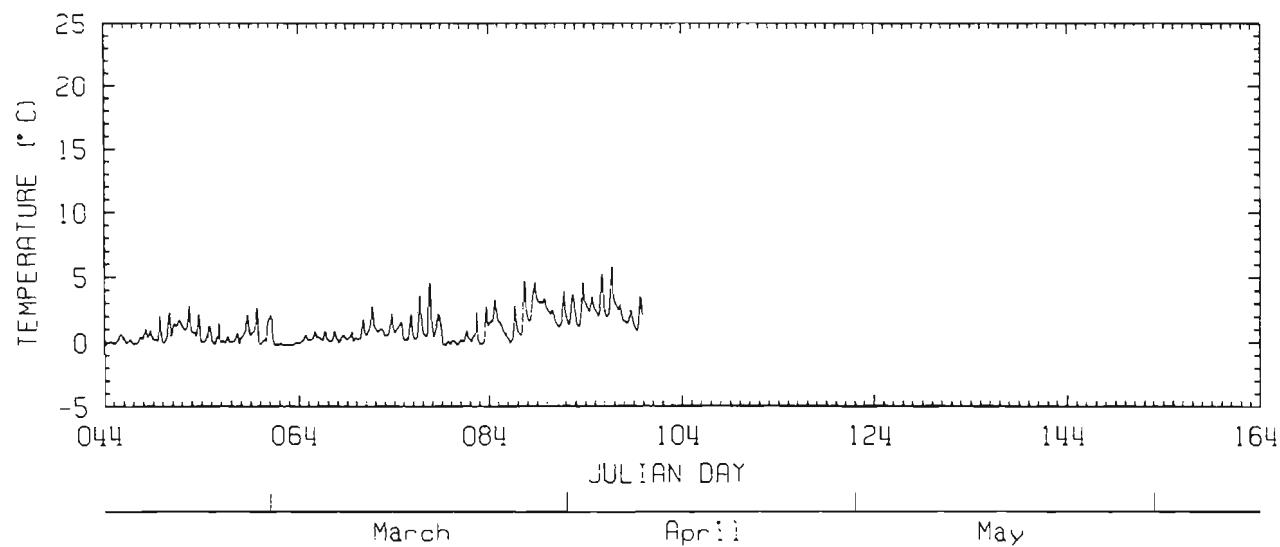
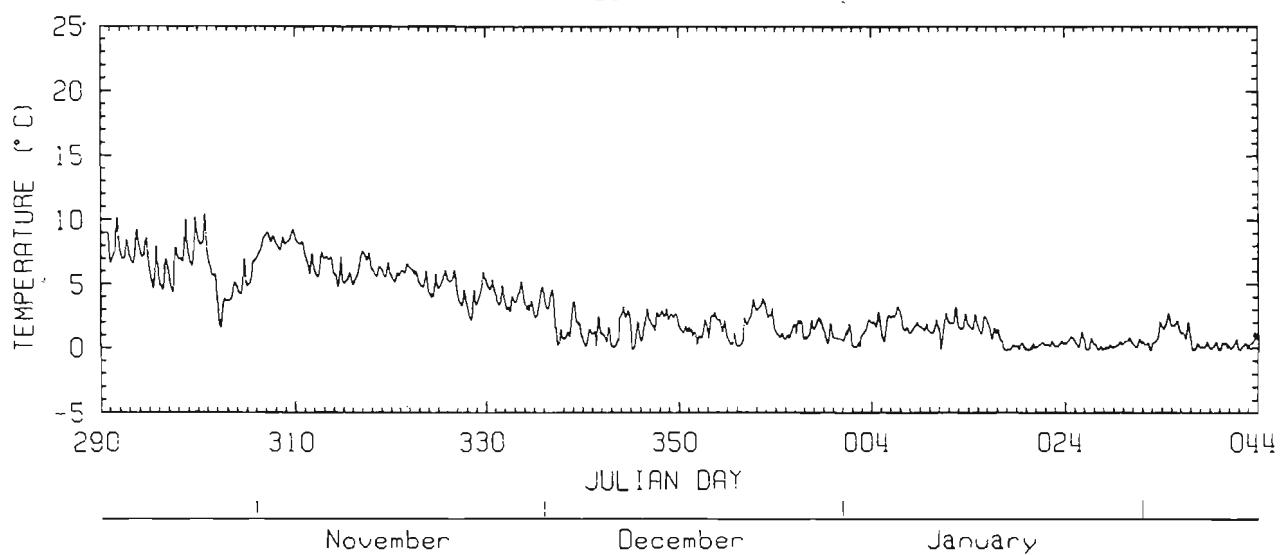
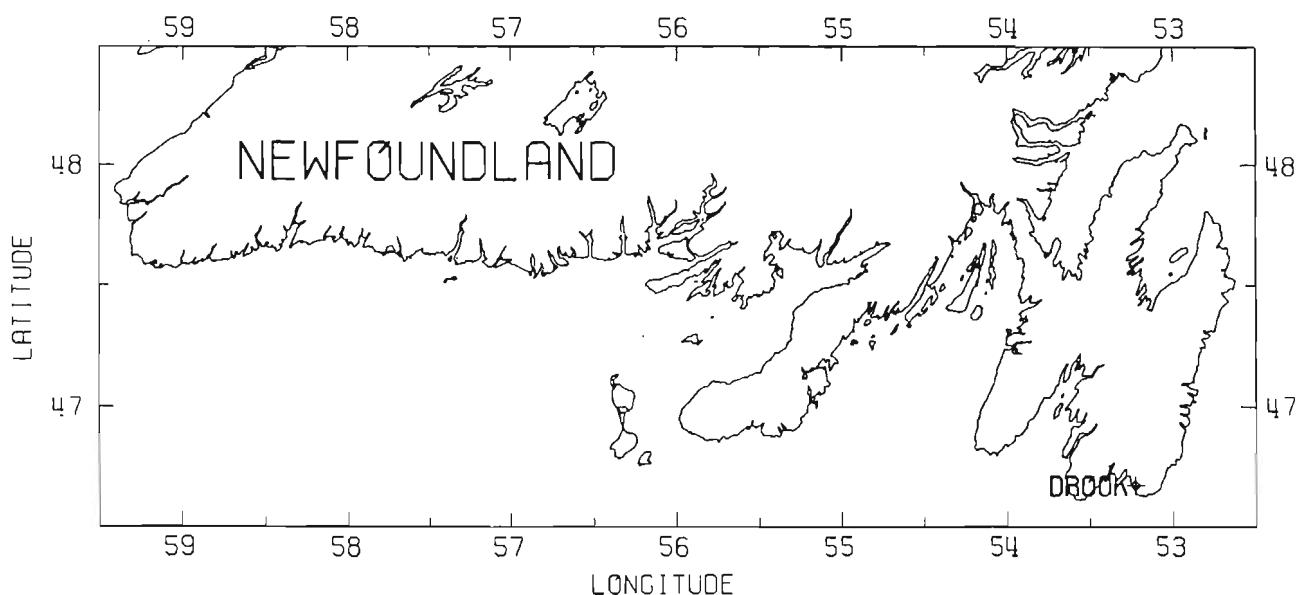
THERMOGRAPH DATA SUMMARY

STATION NAME: DROOK
STATION NUMBER: 132
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 6597
LATITUDE: 46.67° N
LONGITUDE: 53.23° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 2 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 17-OCT-1991 17:00 GMT
RECOVERY DATE/TIME: 8-APR-1992 22:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
OCT-1991	1.55	302	10.50	300	6.52	1.84	99.0	40.0	343
NOV-1991	2.15	328	9.25	309	5.75	1.59	172.6	55.0	720
DEC-1991	-0.15	345	4.75	335	1.72	1.03	53.3	0.0	744
JAN-1992	-0.20	17	3.20	6	0.96	0.88	29.8	0.0	744
FEB-1992	-0.20	32	2.85	52	0.58	0.68	16.8	0.0	696
MAR-1992	-0.25	61	4.70	87	0.96	1.08	30.1	0.0	744
APR-1992	0.80	99	5.85	96	2.50	1.02	20.0	0.0	191
Total Period	-0.25	61	10.50	300	2.38	2.46	421.6	95.1	4182

336



Start: 17-OCT-1991

End: 8-APR-1992

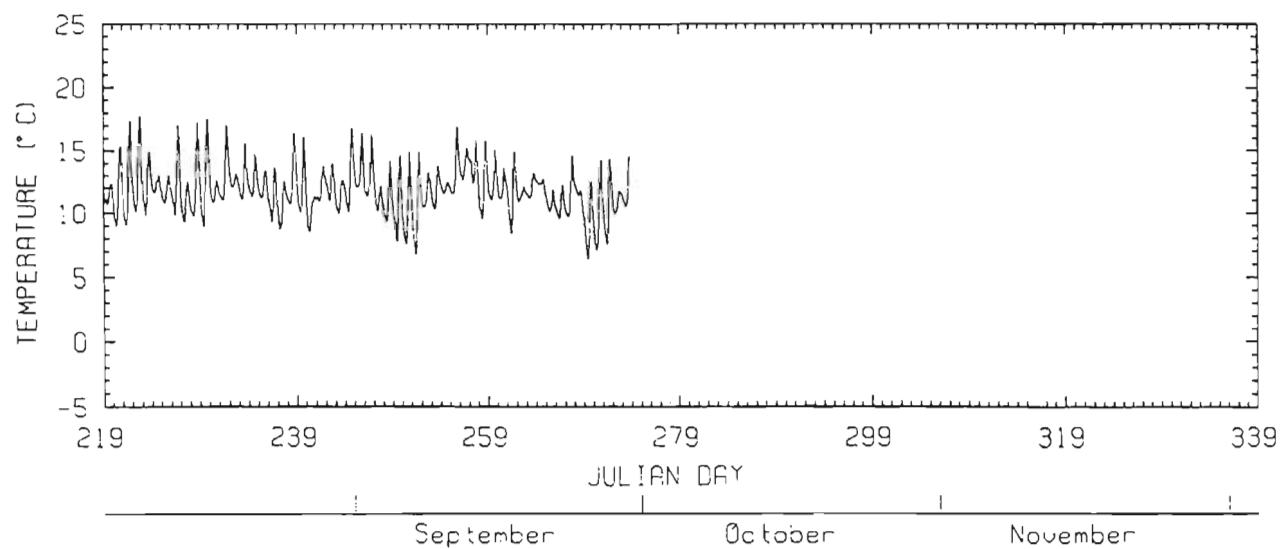
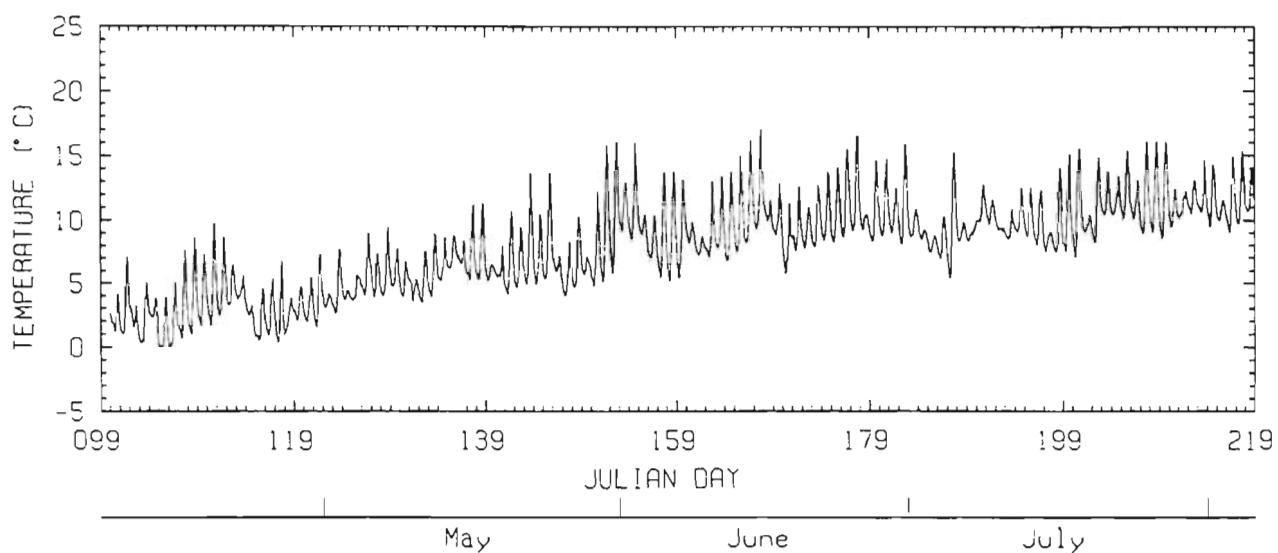
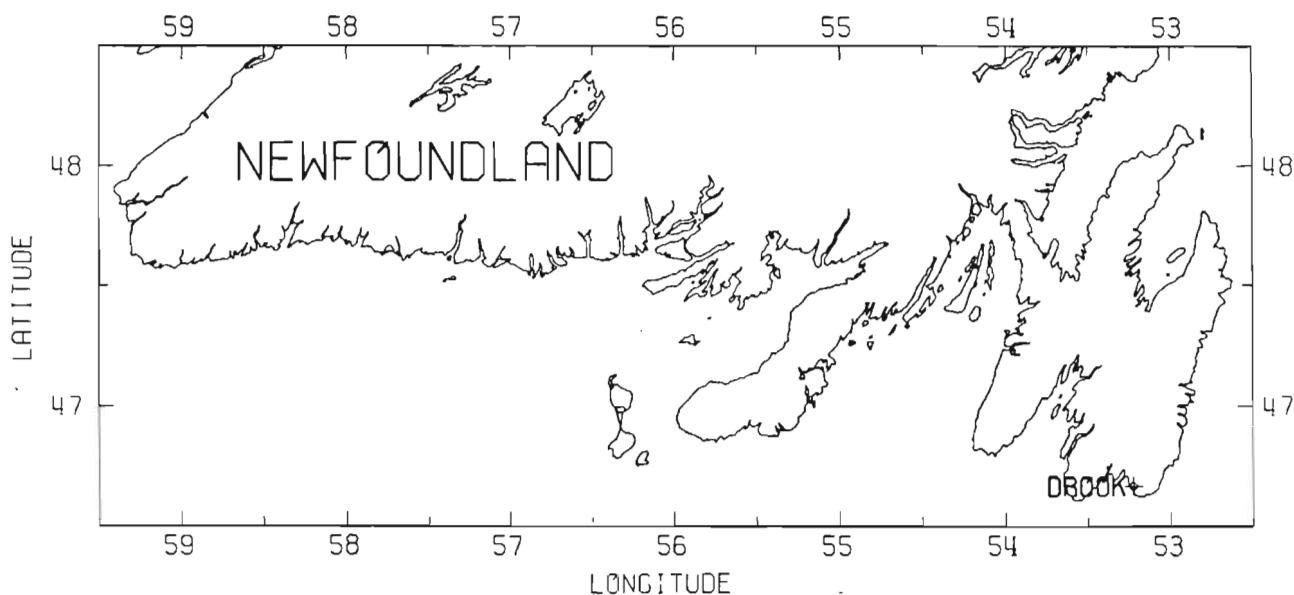
THERMOGRAPH DATA SUMMARY

STATION NAME: DROOK
STATION NUMBER: 132
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5459
LATITUDE: 46.67° N
LONGITUDE: 53.23° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 2 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 8-APR-1992 23:00 GMT
RECOVERY DATE/TIME: 29-SEP-1992 20:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
APR-1992	0.00	105	9.70	110	3.07	1.92	70.2	2.3	529
MAY-1992	2.60	123	16.00	152	6.36	2.32	197.3	73.7	744
JUN-1992	5.10	158	17.00	167	9.96	2.27	298.8	178.8	720
JUL-1992	5.40	187	16.10	207	10.36	1.97	321.1	197.1	744
AUG-1992	8.50	240	17.80	222	11.96	1.88	370.8	246.8	744
SEP-1992	6.30	269	16.90	255	11.60	1.92	336.3	220.3	693
Total Period	0.00	105	17.80	222	9.15	3.62	1594.6	919.1	4174

338



Start: 8-APR-1992

End: 29-SEP-1992

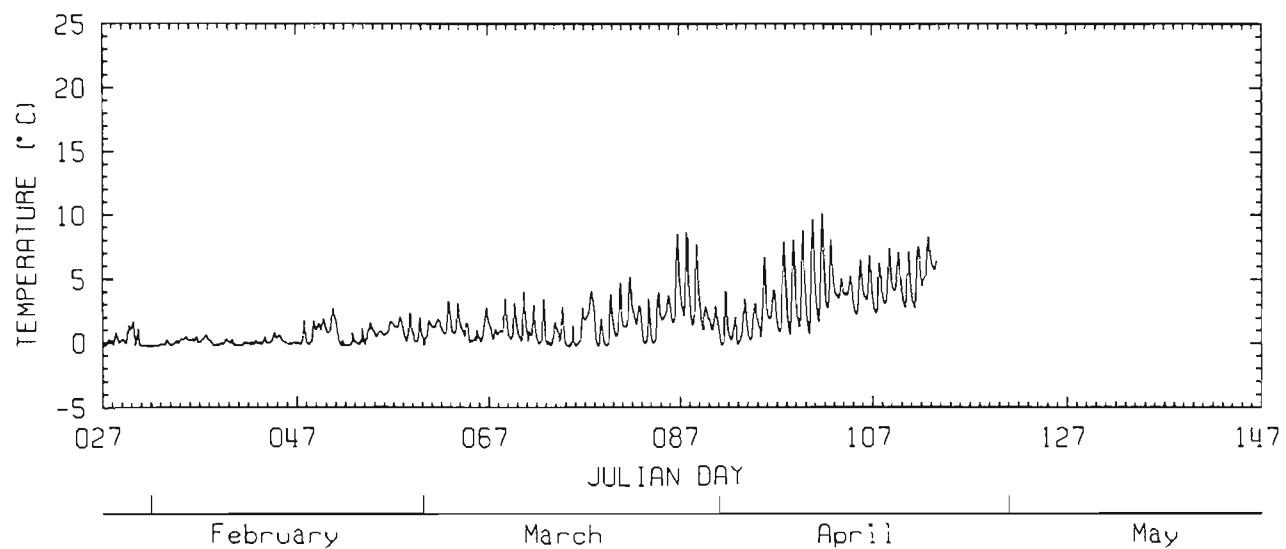
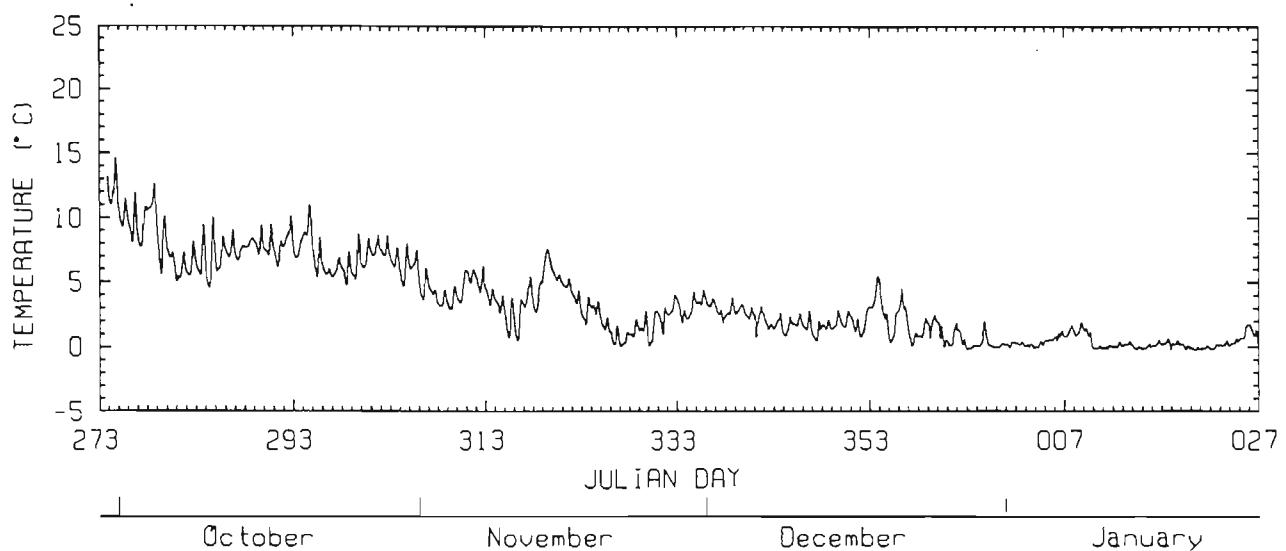
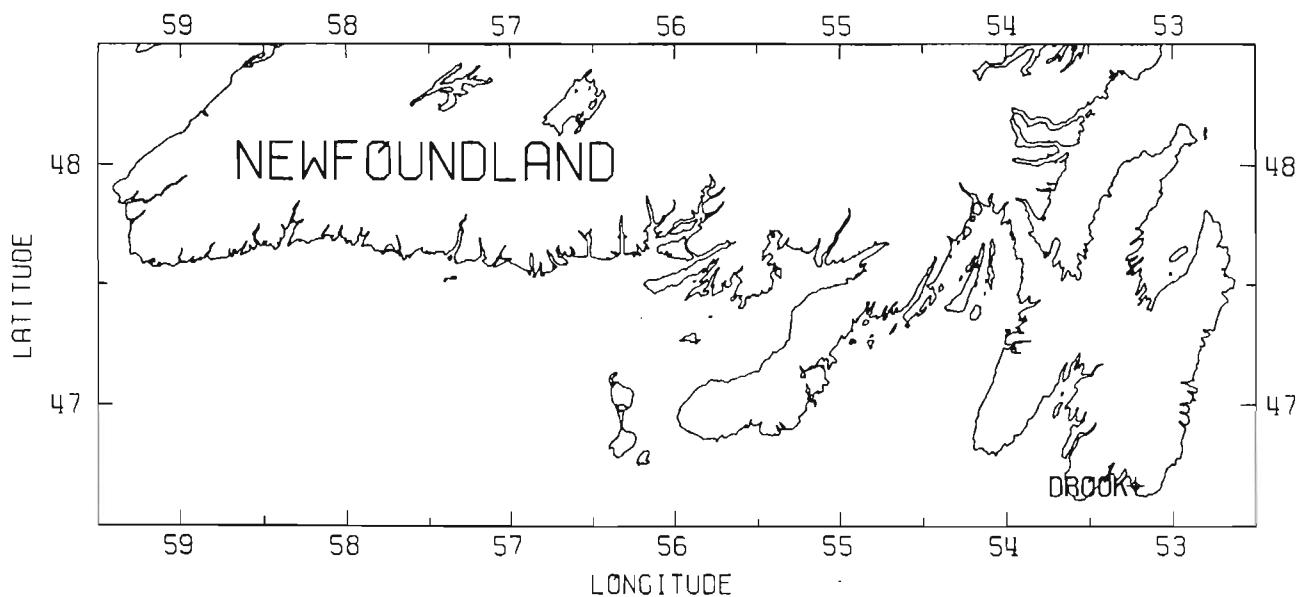
THERMOGRAPH DATA SUMMARY

STATION NAME: DROOK
STATION NUMBER: 132
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3264
LATITUDE: 46.67° N
LONGITUDE: 53.23° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 29-SEP-1992 21:00 GMT
RECOVERY DATE/TIME: 23-APR-1993 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
SEP-1992	11.00	274	14.70	274	12.27	1.15	24.8	16.8	27
OCT-1992	4.50	284	12.70	278	7.46	1.57	231.2	107.2	744
NOV-1992	0.10	327	7.60	319	3.30	1.59	99.1	8.9	720
DEC-1992	-0.20	363	5.50	353	1.74	1.12	54.1	0.0	744
JAN-1993	-0.30	30	1.90	8	0.33	0.49	10.8	0.0	744
FEB-1993	-0.30	32	2.70	50	0.39	0.62	11.5	0.0	672
MAR-1993	-0.30	75	8.70	87	1.62	1.55	50.1	0.6	744
APR-1993	-0.20	91	10.10	101	3.78	2.25	87.6	10.4	545
Total Period	-0.30	30	14.70	274	2.70	2.81	569.3	144.0	4940

340



Start: 29-SEP-1992

End: 23-APR-1993

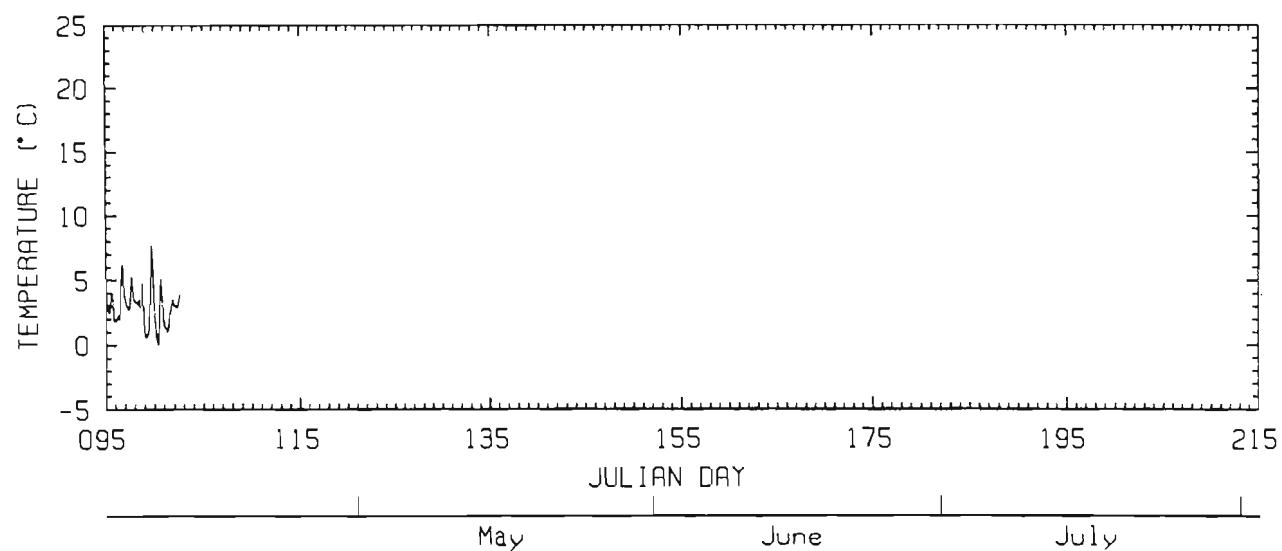
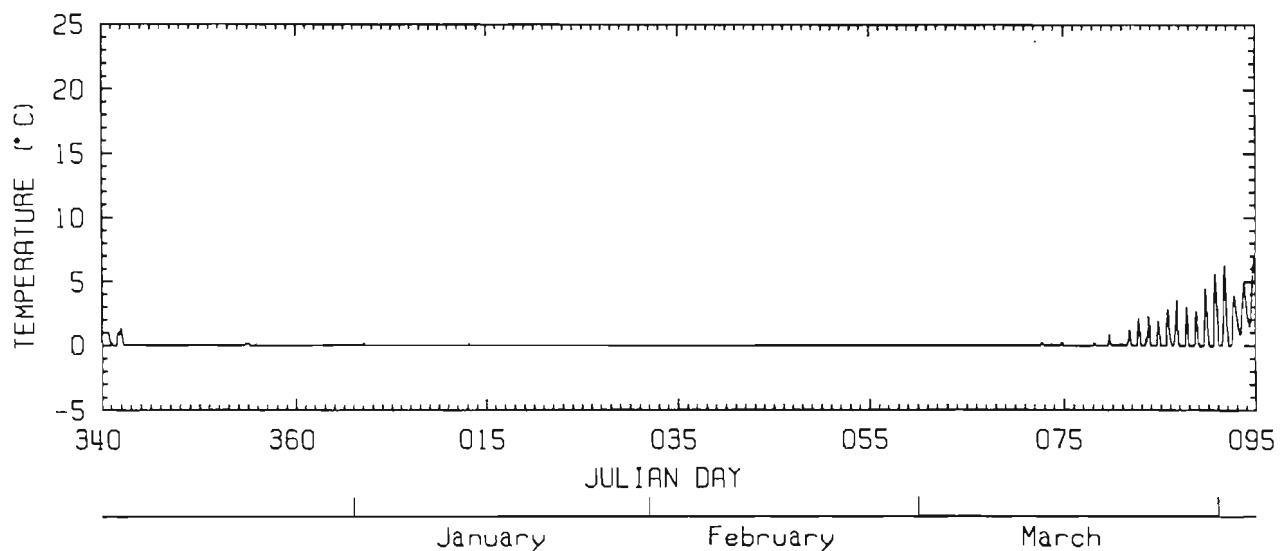
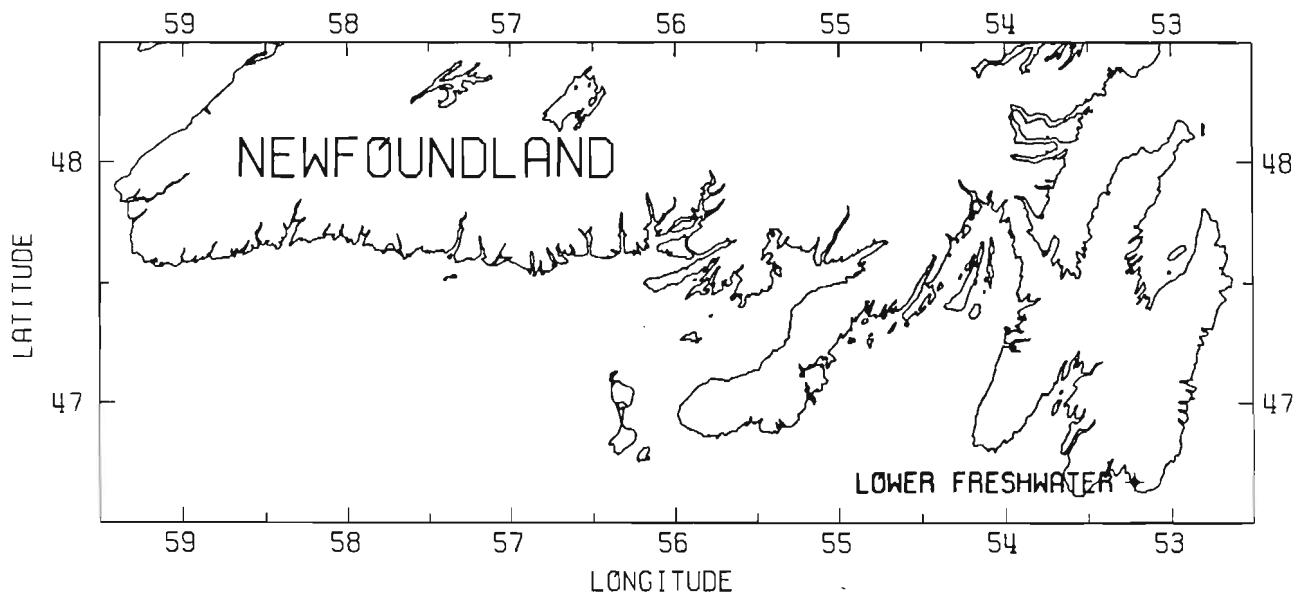
THERMOGRAPH DATA SUMMARY

STATION NAME: LOWER FRESHWATER
STATION NUMBER: 131
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 4330
LATITUDE: 46.67° N
LONGITUDE: 53.23° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 6-DEC-1989 17:00 GMT
RECOVERY DATE/TIME: 12-APR-1990 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
DEC-1989	0.00	341	1.30	342	0.03	0.16	1.2	0.0	607
JAN-1990	-0.10	27	0.20	2	0.00	0.02	0.1	0.0	744
FEB-1990	-0.10	57	0.00	32	-0.00	0.00	0.0	0.0	672
MAR-1990	-0.10	64	5.60	90	0.25	0.77	7.8	0.0	744
APR-1990	-0.10	92	7.60	99	2.81	1.70	33.9	0.0	280
Total Period	-0.10	27	7.60	99	0.33	1.03	42.9	0.0	3047

342



Start: 6-DEC-1989

End: 12-APR-1990

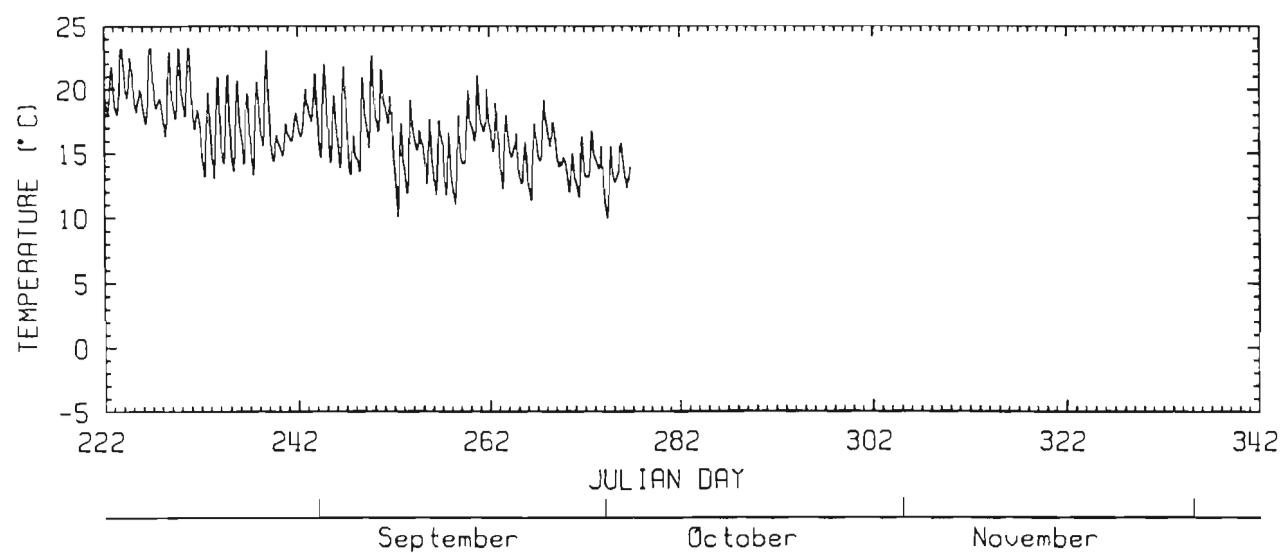
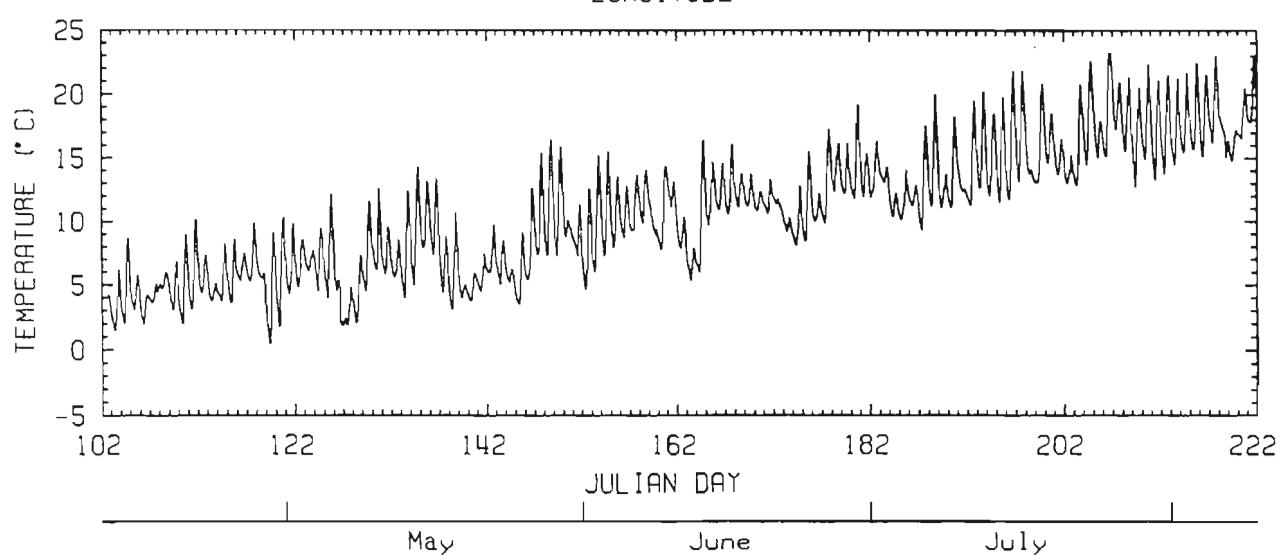
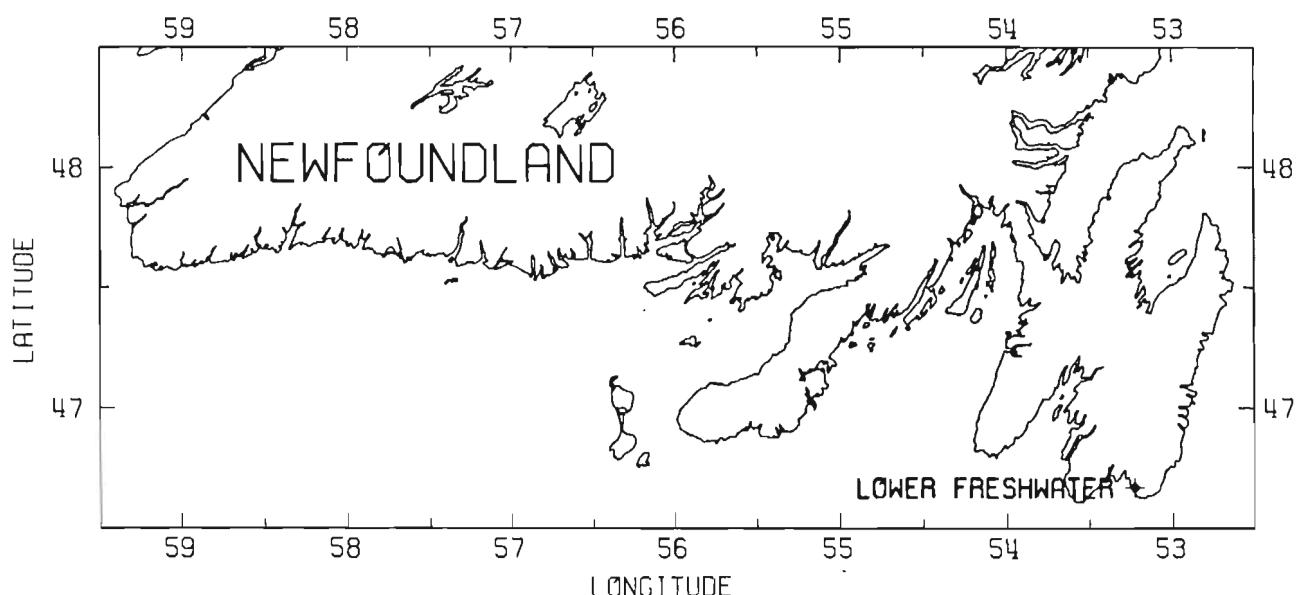
THERMOGRAPH DATA SUMMARY

STATION NAME: LOWER FRESHWATER
STATION NUMBER: 131
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 4360
LATITUDE: 46.67° N
LONGITUDE: 53.23° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 12-APR-1990 16:00 GMT
RECOVERY DATE/TIME: 3-OCT-1990 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
APR-1990	0.40	119	10.30	120	5.00	1.98	94.3	20.0	440
MAY-1990	1.80	126	16.40	148	7.27	2.86	225.3	102.3	744
JUN-1990	4.70	152	19.20	180	11.28	2.55	338.3	218.3	720
JUL-1990	9.30	187	23.20	206	15.31	3.10	474.7	350.7	744
AUG-1990	13.00	233	23.20	223	18.12	2.34	561.6	437.6	744
SEP-1990	10.00	252	22.60	249	15.70	2.37	471.1	351.1	720
OCT-1990	9.90	274	15.80	275	13.15	1.54	39.4	27.4	67
Total Period	0.40	119	23.20	206	12.63	5.15	2204.7	1507.5	4179

344



Start: 12-APR-1990

End: 3-OCT-1990

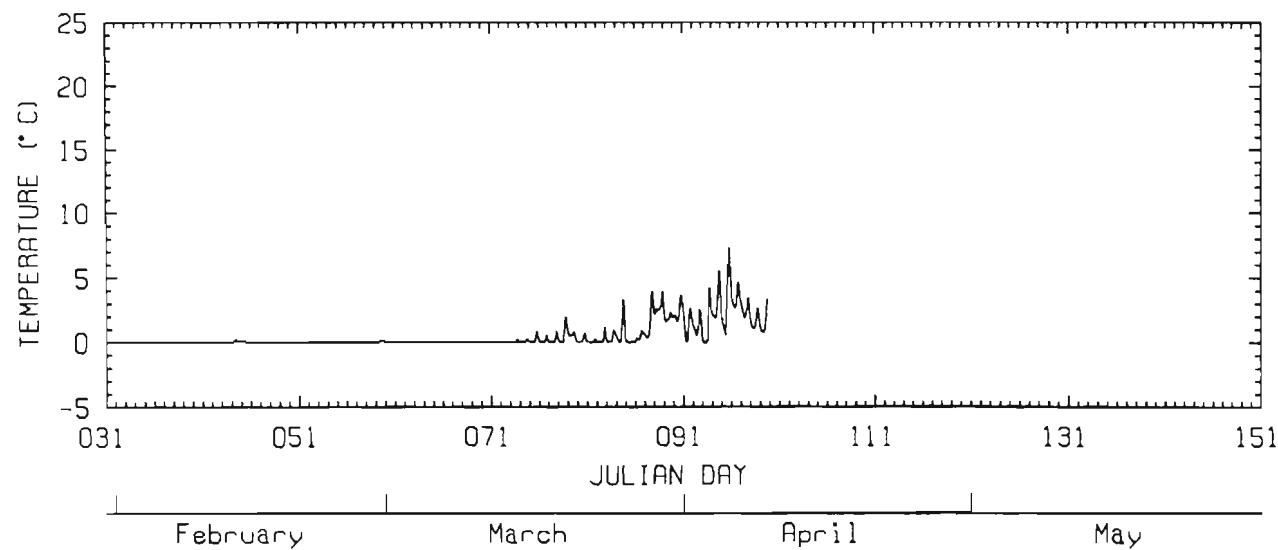
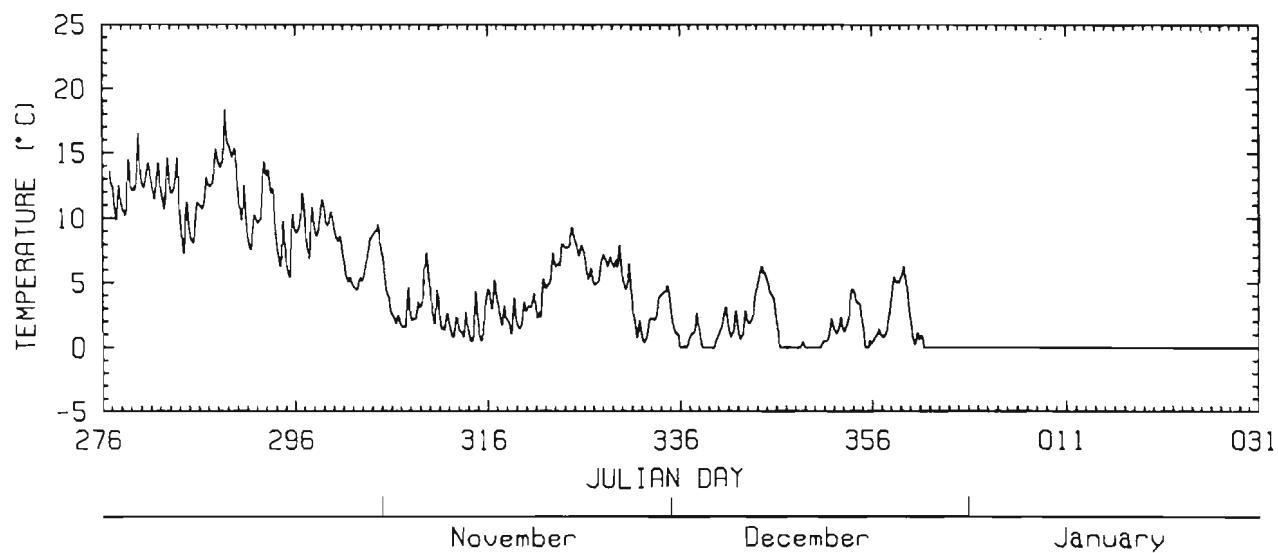
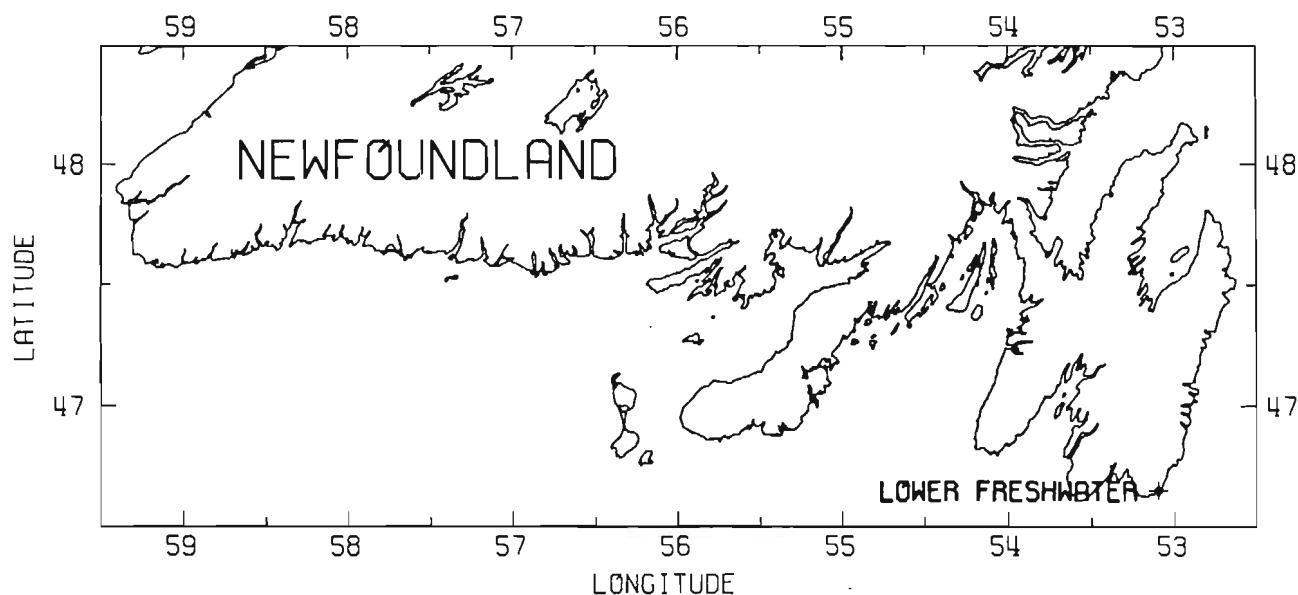
THERMOGRAPH DATA SUMMARY

STATION NAME: LOWER FRESHWATER
STATION NUMBER: 131
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5458
LATITUDE: 46.65° N
LONGITUDE: 53.10° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 3-OCT-1990 20:00 GMT
RECOVERY DATE/TIME: 9-APR-1991 19:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
OCT-1990	4.50	302	18.30	288	10.52	2.85	307.1	191.1	676
NOV-1990	0.40	332	9.30	324	3.86	2.20	115.7	25.1	720
DEC-1990	0.00	335	6.20	344	1.42	1.71	44.1	3.5	744
JAN-1991	-0.10	18	0.00	1	-0.00	0.00	0.0	0.0	744
FEB-1991	-0.10	49	0.20	44	0.01	0.03	0.3	0.0	672
MAR-1991	-0.10	64	3.90	87	0.40	0.84	12.4	0.0	744
APR-1991	-0.10	93	7.30	95	2.15	1.51	19.3	0.0	212
Total Period	-0.10	18	18.30	288	2.59	3.94	498.8	219.7	4512

346



Start: 3-OCT-1990

End: 9-APR-1991

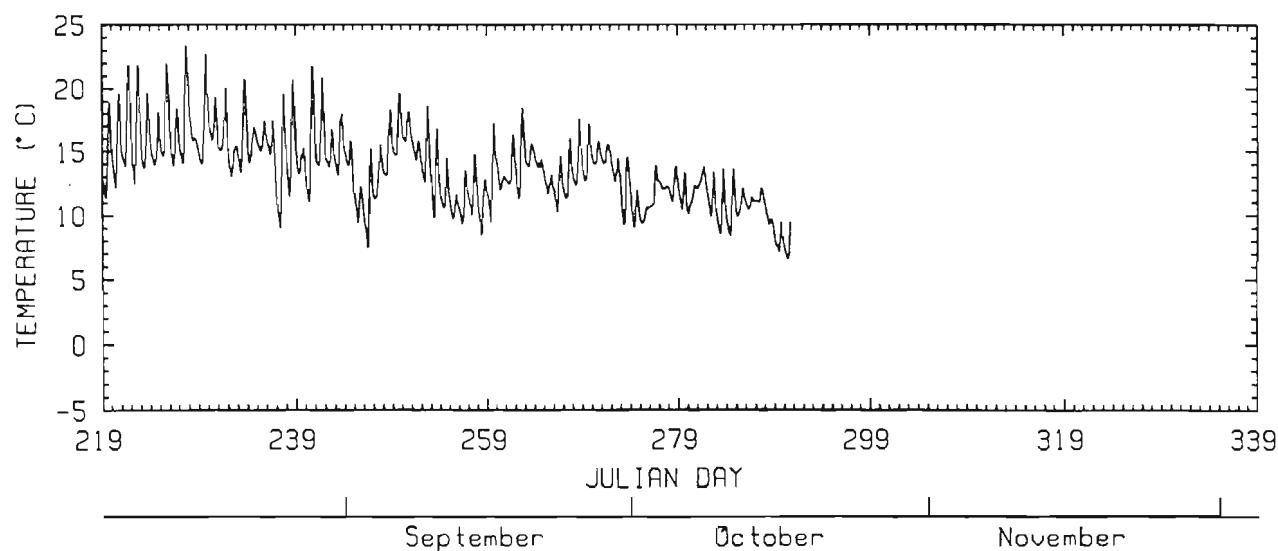
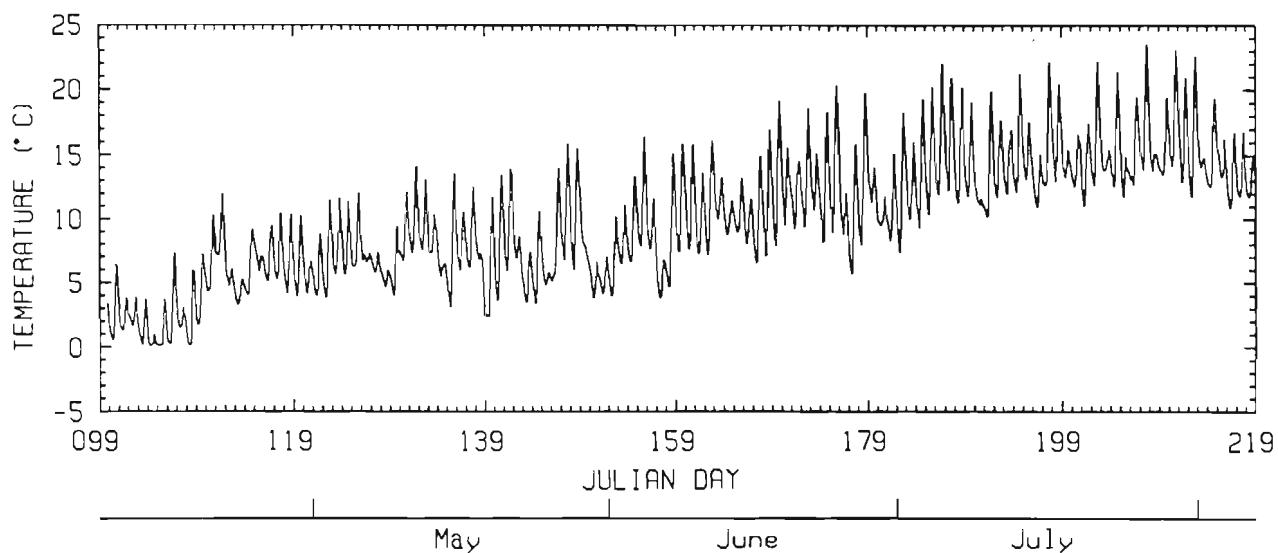
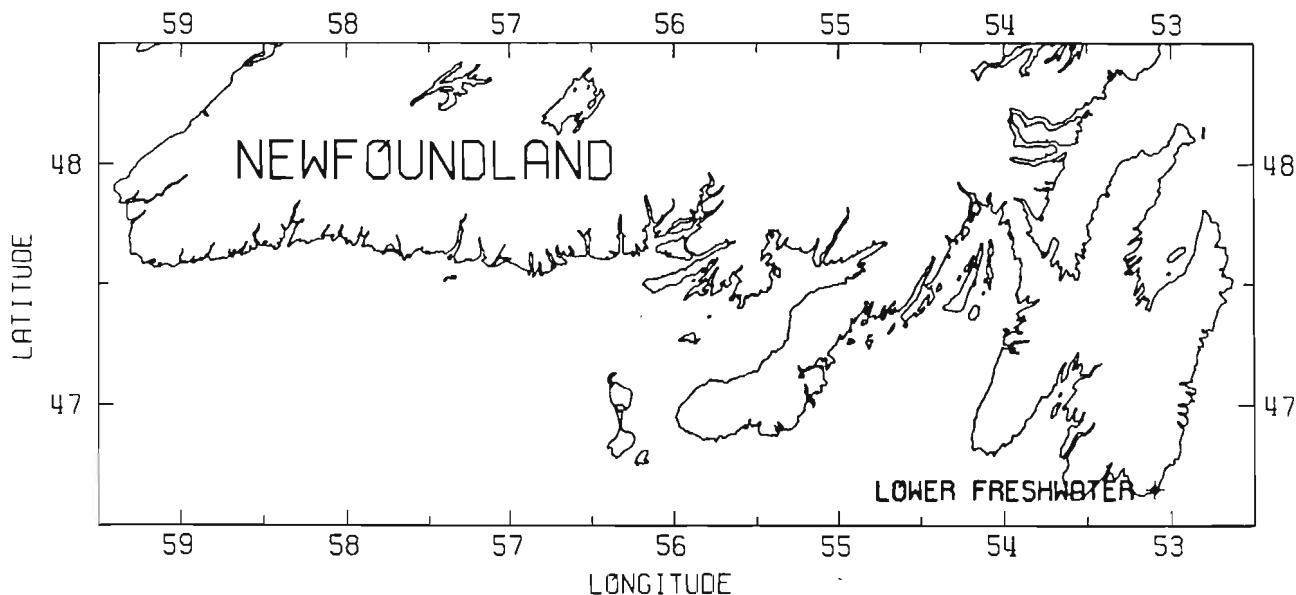
THERMOGRAPH DATA SUMMARY

STATION NAME: LOWER FRESHWATER
STATION NUMBER: 131
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5477
LATITUDE: 46.65° N
LONGITUDE: 53.10° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 9-APR-1991 20:00 GMT
RECOVERY DATE/TIME: 17-OCT-1991 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
APR-1991	0.15	103	11.90	111	4.43	2.85	96.4	27.2	508
MAY-1991	2.40	139	15.85	147	7.52	2.67	233.1	109.1	744
JUN-1991	3.80	157	20.30	175	10.79	3.24	323.6	203.6	720
JUL-1991	7.35	182	23.50	207	14.95	3.04	463.6	339.6	744
AUG-1991	8.95	237	23.35	227	15.45	2.52	479.1	355.1	744
SEP-1991	7.40	246	19.60	249	13.34	2.21	400.3	280.3	720
OCT-1991	6.55	290	13.85	276	10.83	1.62	183.0	115.0	401
Total Period	0.15	103	23.50	207	11.39	4.52	2179.0	1429.8	4581

348



Start: 9-APR-1991

End: 17-OCT-1991

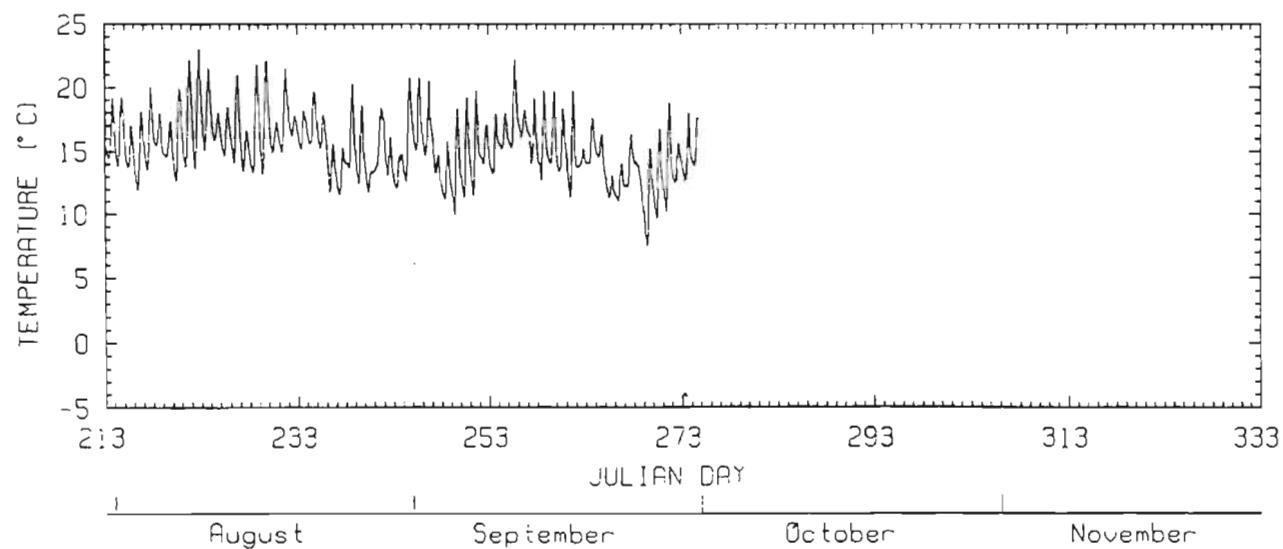
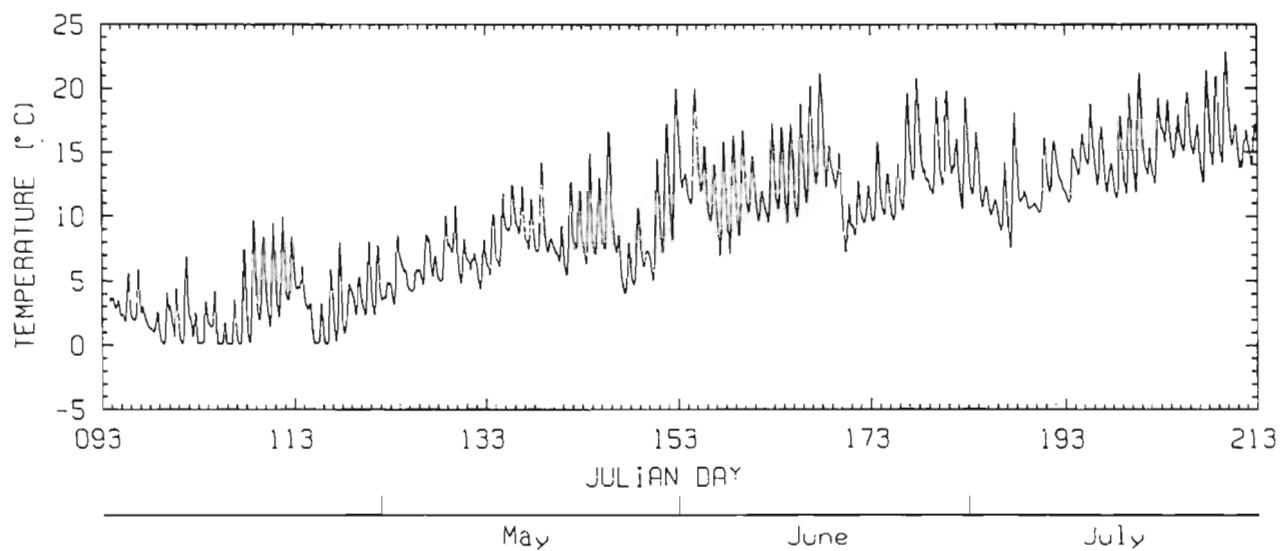
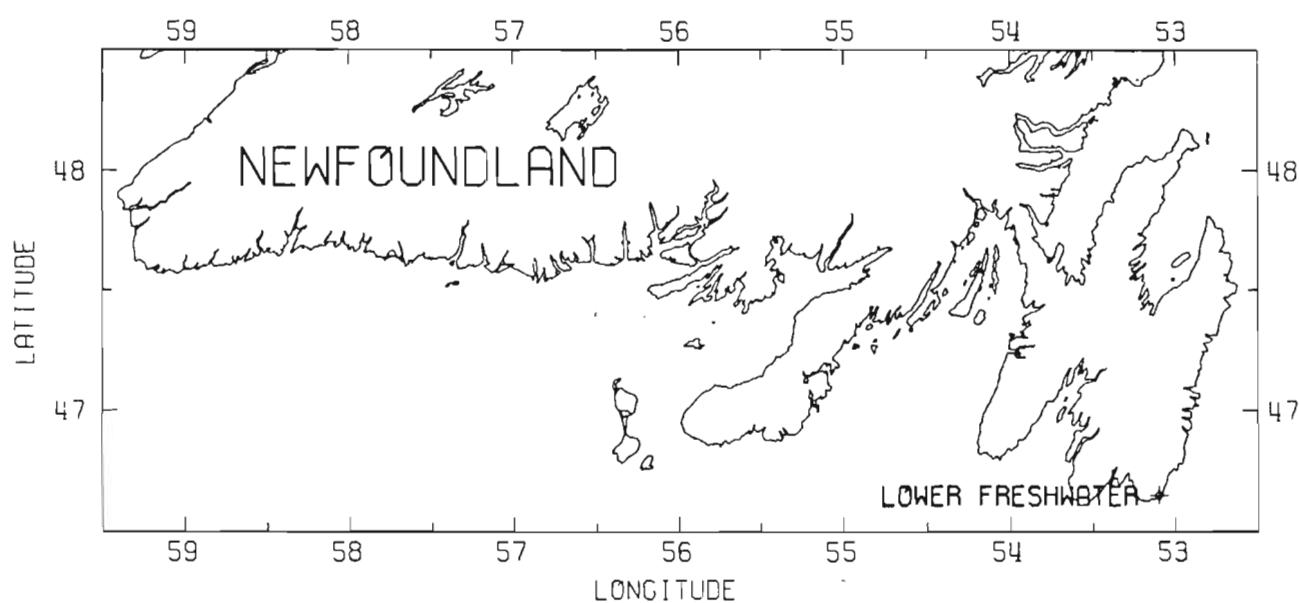
THERMOGRAPH DATA SUMMARY

STATION NAME: LOWER FRESHWATER
STATION NUMBER: 131
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5477
LATITUDE: 46.65° N
LONGITUDE: 53.10° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 2-APR-1992 20:00 GMT
RECOVERY DATE/TIME: 30-SEP-1992 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
APR-1992	0.10	99	10.00	111	2.97	2.25	86.6	6.6	676
MAY-1992	3.10	123	20.00	152	7.98	2.87	247.5	123.5	744
JUN-1992	6.90	157	21.20	167	13.01	2.91	390.2	270.2	720
JUL-1992	7.50	187	22.90	209	14.44	2.76	447.7	323.7	744
AUG-1992	11.50	237	23.10	222	15.95	2.35	494.5	370.5	744
SEP-1992	7.40	269	22.10	255	14.67	2.43	440.1	320.1	715
Total Period	0.10	99	23.10	222	11.61	5.21	2106.5	1414.4	4343

350



Start: 2-APR-1992

End: 30-SEP-1992

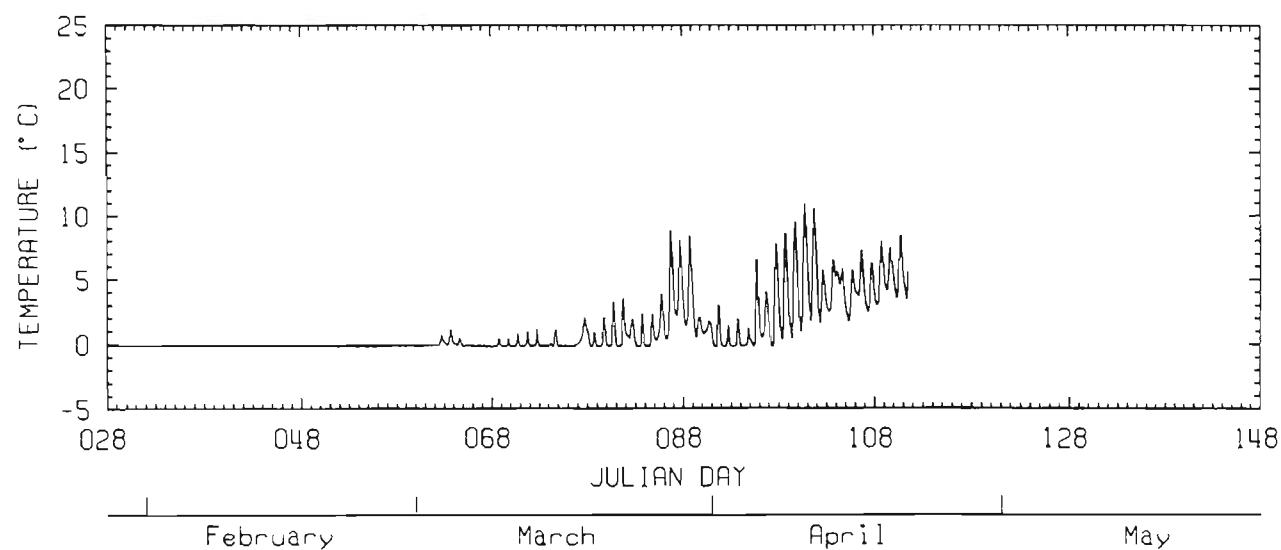
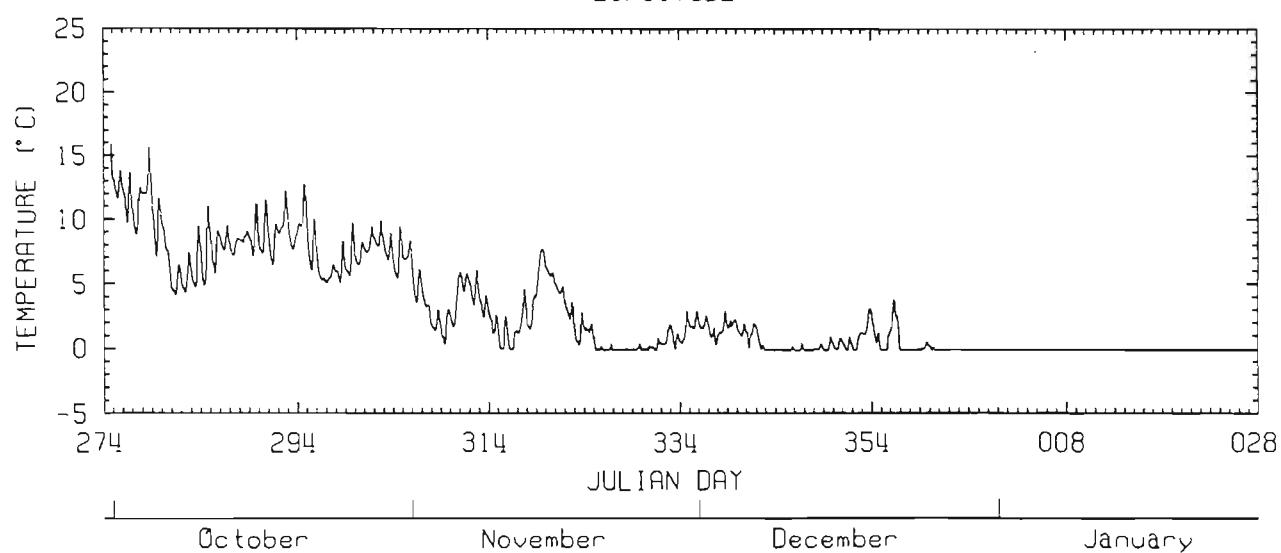
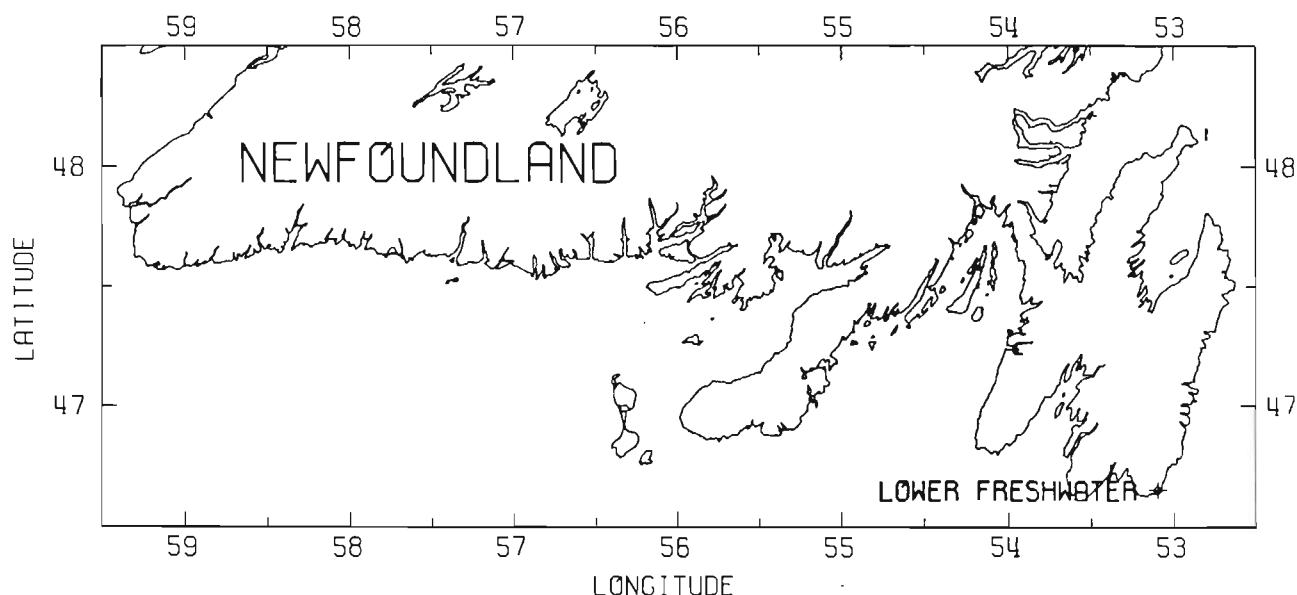
THERMOGRAPH DATA SUMMARY

STATION NAME: LOWER FRESHWATER
STATION NUMBER: 131
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 4323
LATITUDE: 46.65° N
LONGITUDE: 53.10° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 30-SEP-1992 20:00 GMT
RECOVERY DATE/TIME: 21-APR-1993 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
SEP-1992	13.50	274	15.90	274	14.58	0.91	14.6	10.6	4
OCT-1992	4.00	281	15.70	278	8.24	2.22	255.5	131.5	744
NOV-1992	-0.10	315	7.70	319	2.15	2.02	64.8	7.7	720
DEC-1992	-0.10	342	3.80	356	0.49	0.85	16.4	0.0	744
JAN-1993	-0.20	21	0.00	25	-0.10	0.01	0.0	0.0	744
FEB-1993	-0.20	32	0.00	40	-0.11	0.03	0.0	0.0	672
MAR-1993	-0.20	60	8.80	86	0.67	1.56	22.1	0.4	744
APR-1993	-0.20	91	10.90	100	3.46	2.69	73.1	9.9	494
Total Period	-0.20	21	15.90	274	2.09	3.28	446.4	160.1	4866

352



Start: 30-SEP-1992

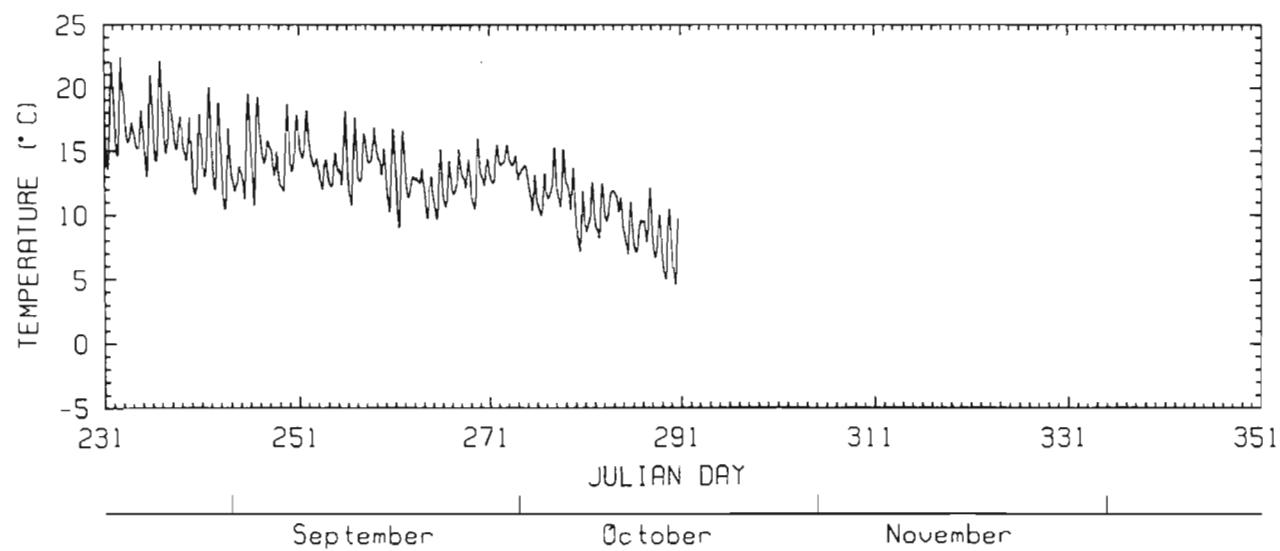
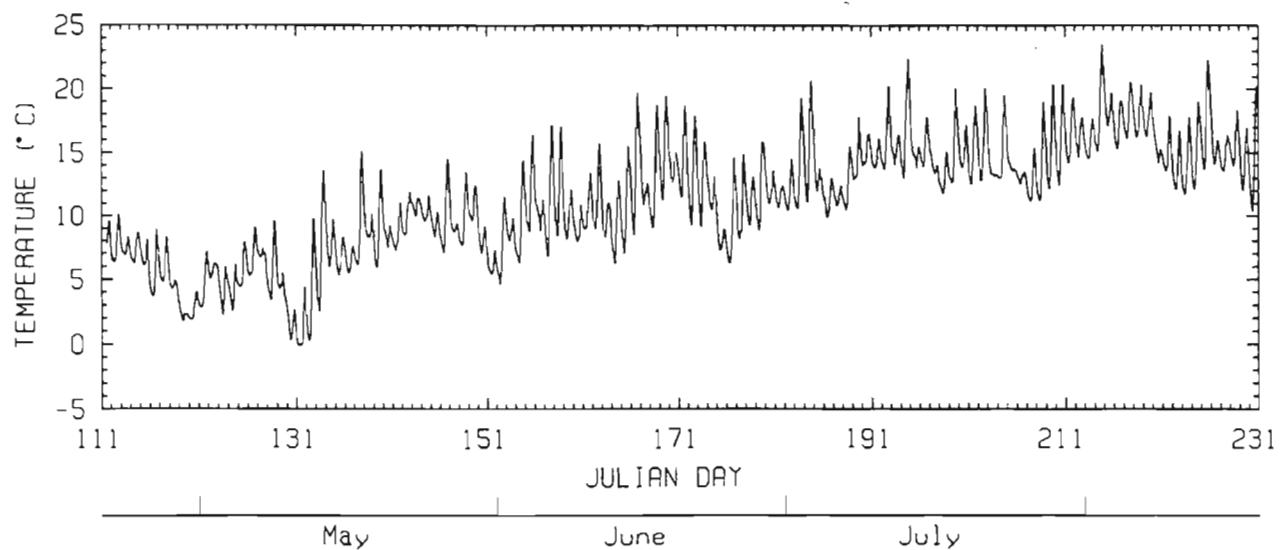
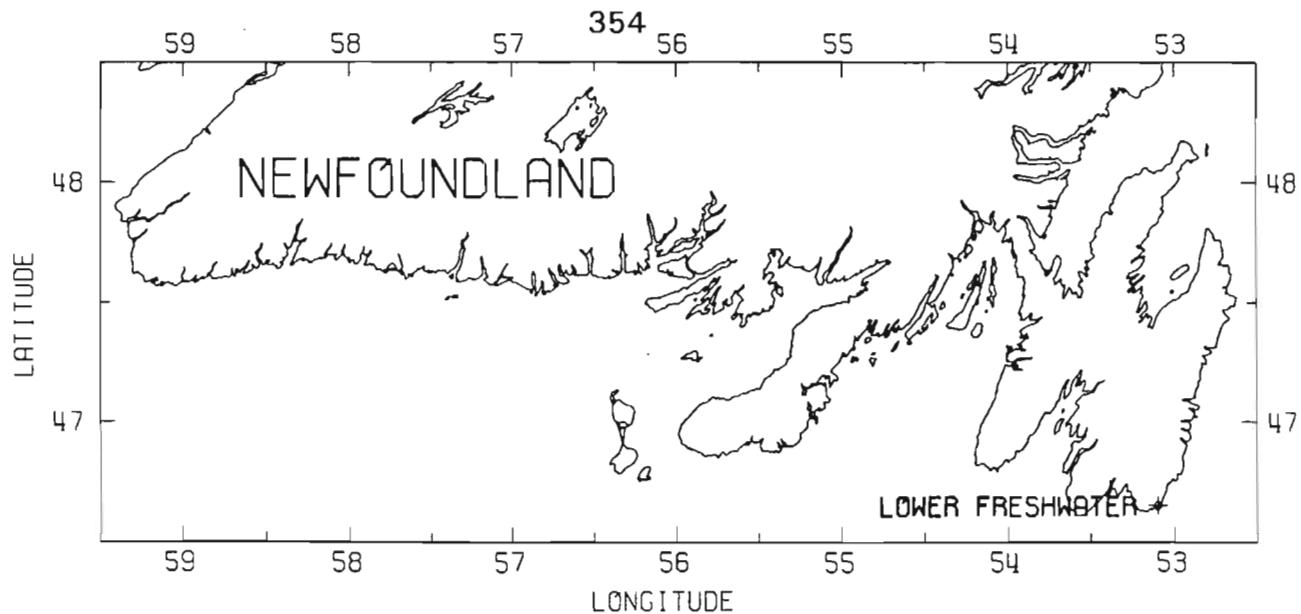
End: 21-APR-1993

THERMOGRAPH DATA SUMMARY

STATION NAME: LOWER FRESHWATER
STATION NUMBER: 131
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5477
LATITUDE: 46.65° N
LONGITUDE: 53.10° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 21-APR-1993 14:00 GMT
RECOVERY DATE/TIME: 17-OCT-1993 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
APR-1993	1.70	119	10.10	112	5.74	2.22	59.2	22.2	226
MAY-1993	-0.10	131	15.10	137	7.20	3.09	223.1	104.3	744
JUN-1993	4.60	152	19.70	166	11.27	2.97	338.0	218.0	720
JUL-1993	9.90	186	22.40	194	14.52	2.43	450.3	326.3	744
AUG-1993	10.30	230	23.50	214	16.11	2.47	499.6	375.6	744
SEP-1993	9.00	261	19.50	245	13.68	1.87	410.5	290.5	720
OCT-1993	4.60	290	15.30	277	10.25	2.27	173.2	105.2	402
Total Period	-0.10	131	23.50	214	11.98	4.18	2153.8	1442.0	4300



Start: 21-APR-1993

End: 17-OCT-1993

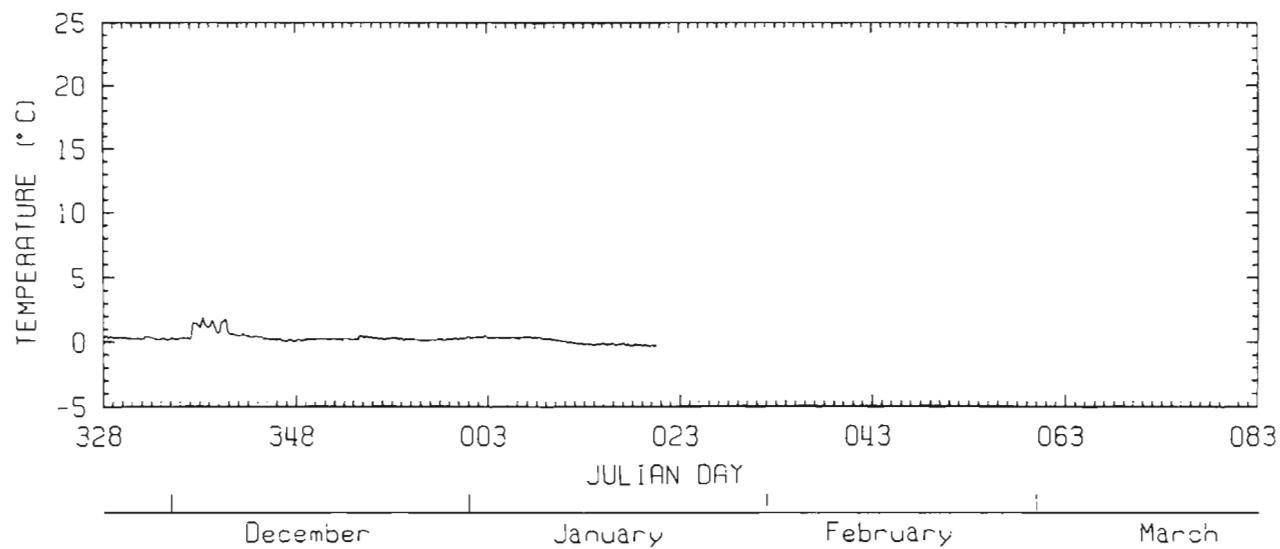
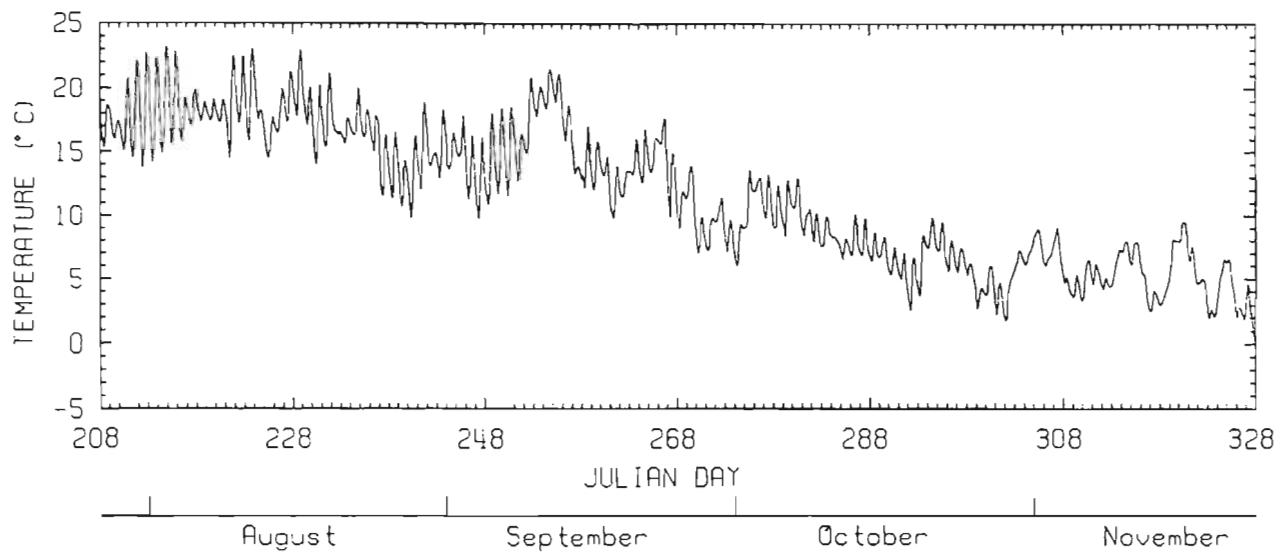
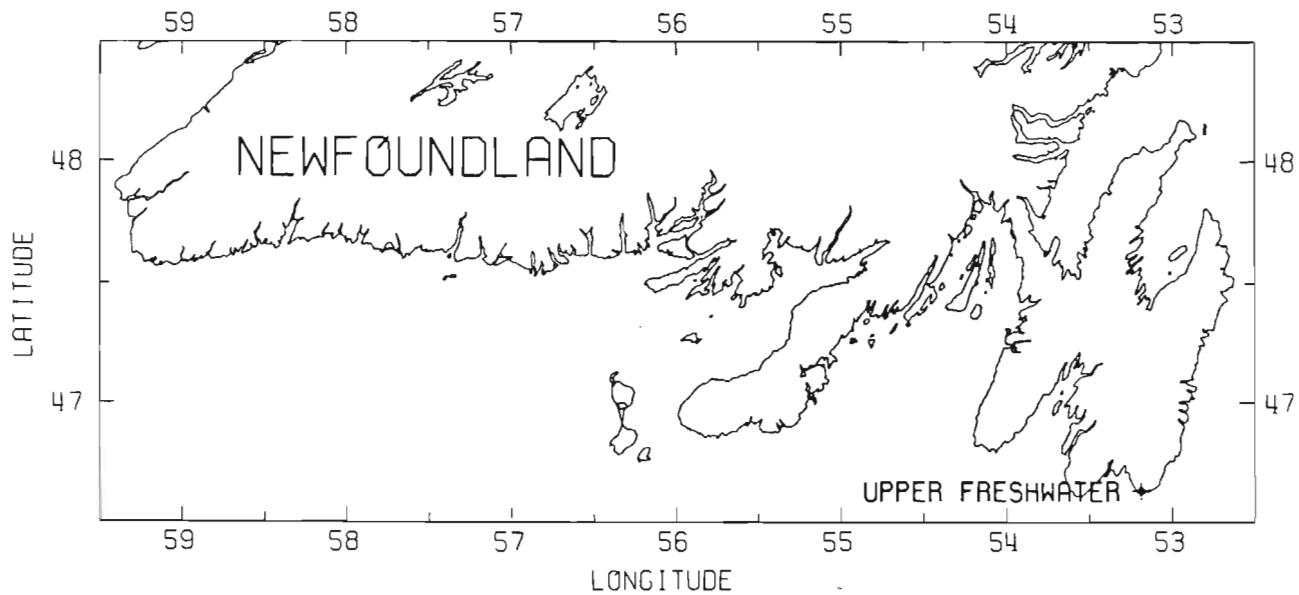
THERMOGRAPH DATA SUMMARY

STATION NAME: UPPER FRESHWATER
STATION NUMBER: 150
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 63347
LATITUDE: 46.63° N
LONGITUDE: 53.19° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 27-JUL-1989 00:00 GMT
RECOVERY DATE/TIME: 20-JAN-1990 14:04 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUL-1989	13.76	212	22.79	212	17.42	2.14	87.0	67.0	69
AUG-1989	9.83	240	23.28	214	17.20	2.67	533.6	409.6	386
SEP-1989	6.91	270	21.53	254	14.04	3.30	420.6	300.6	361
OCT-1989	1.78	302	13.65	275	7.59	2.57	236.2	113.2	392
NOV-1989	0.14	334	9.54	320	4.12	2.75	125.6	37.2	376
DEC-1989	-0.03	347	1.90	338	0.38	0.38	11.7	0.0	372
JAN-1990	-0.39	20	0.46	2	0.05	0.27	2.9	0.0	236
Total Period	-0.39	20	23.28	214	8.02	6.98	1417.5	927.6	2192

356



Start: 27-JUL-1989

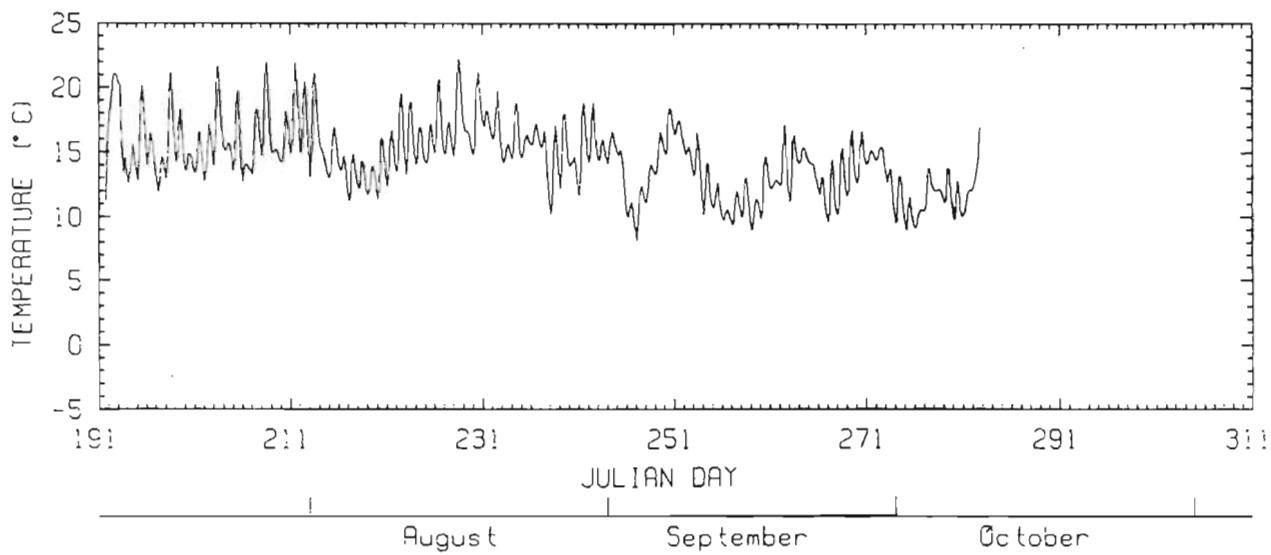
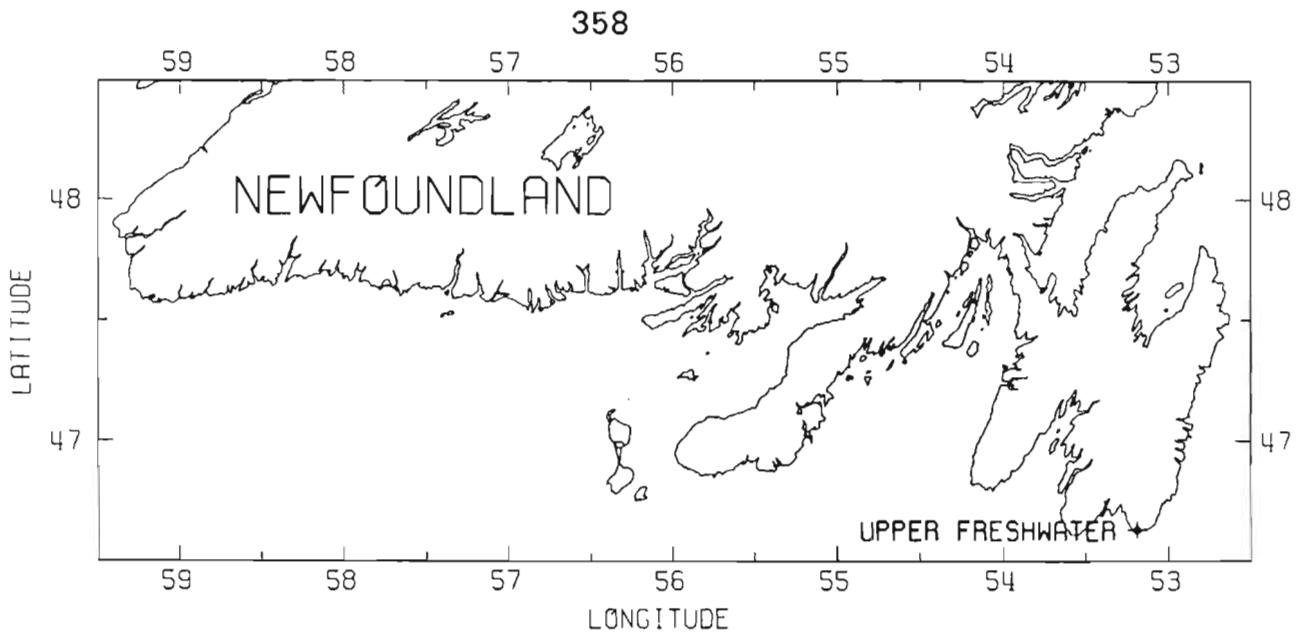
End: 20-JAN-1990

THERMOGRAPH DATA SUMMARY

STATION NAME: UPPER FRESHWATER
STATION NUMBER: 150
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 62917
LATITUDE: 46.63° N
LONGITUDE: 53.19° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 10-JUL-1991 18:12 GMT
RECOVERY DATE/TIME: 9-OCT-1991 17:59 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-1991	11.24	191	22.08	208	16.04	2.51	351.5	263.5	129
AUG-1991	10.17	238	22.34	228	15.59	2.23	482.9	358.9	189
SEP-1991	8.10	247	18.51	250	13.22	2.22	397.6	277.6	183
OCT-1991	8.94	275	16.97	282	11.47	1.54	126.0	82.0	57
Total Period	8.10	247	22.34	228	14.50	2.73	1358.0	982.0	558



Start: 10-JUL-1991

End: 9-OCT-1991

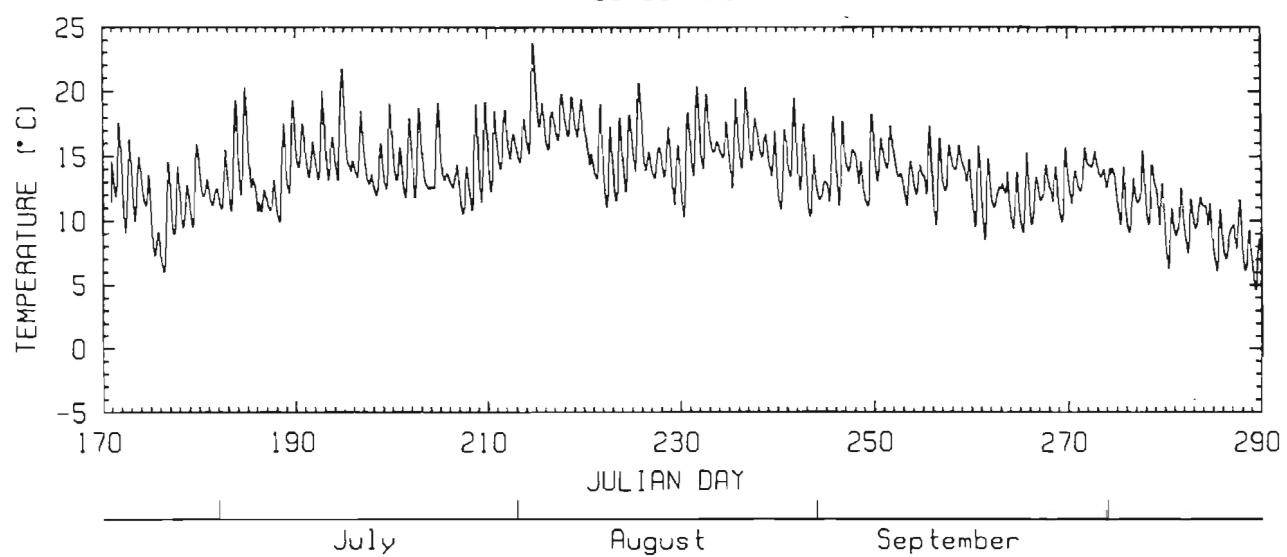
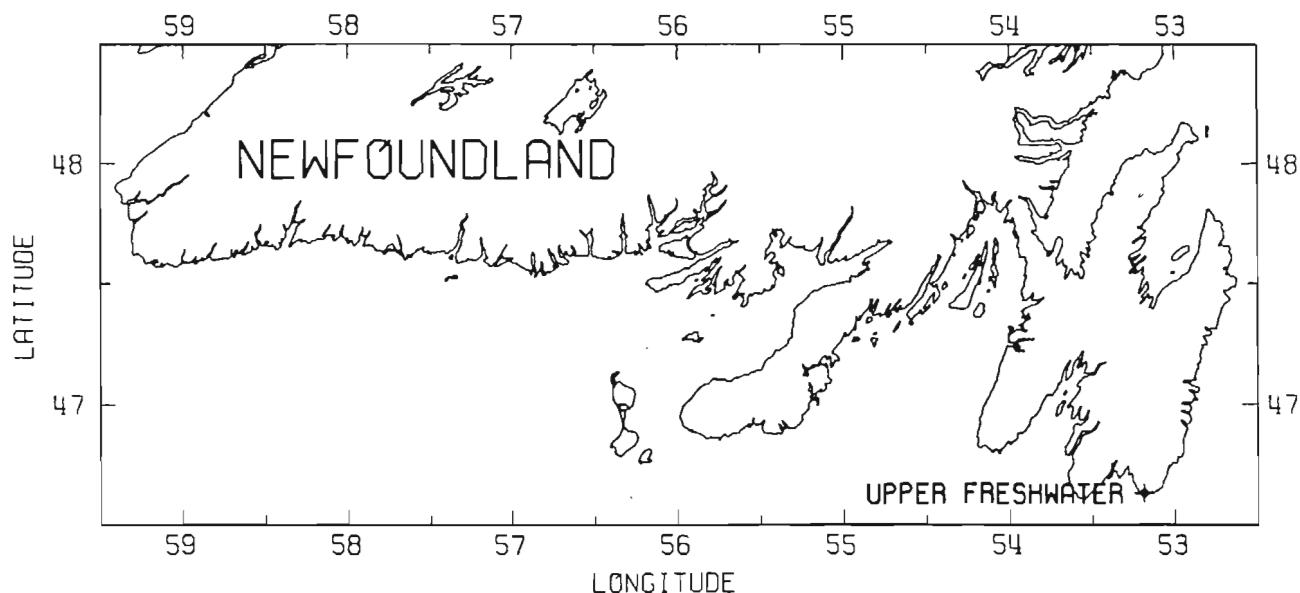
THERMOGRAPH DATA SUMMARY

STATION NAME: UPPER FRESHWATER
STATION NUMBER: 150
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 7928
LATITUDE: 46.63° N
LONGITUDE: 53.19° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 19-JUN-1993 22:00 GMT
RECOVERY DATE/TIME: 17-OCT-1993 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-1993	6.00	176	17.70	171	11.70	2.43	141.6	93.6	266
JUL-1993	9.90	188	21.70	194	14.39	2.37	446.0	322.0	744
AUG-1993	10.20	230	23.80	214	15.77	2.35	488.8	364.8	744
SEP-1993	8.50	261	18.30	249	13.27	1.83	398.1	278.1	720
OCT-1993	4.30	290	15.40	277	9.92	2.38	167.0	99.0	399
Total Period	4.30	290	23.80	214	13.60	2.95	1641.6	1157.6	2873

360



Start: 19-JUN-1993

End: 17-OCT-1993

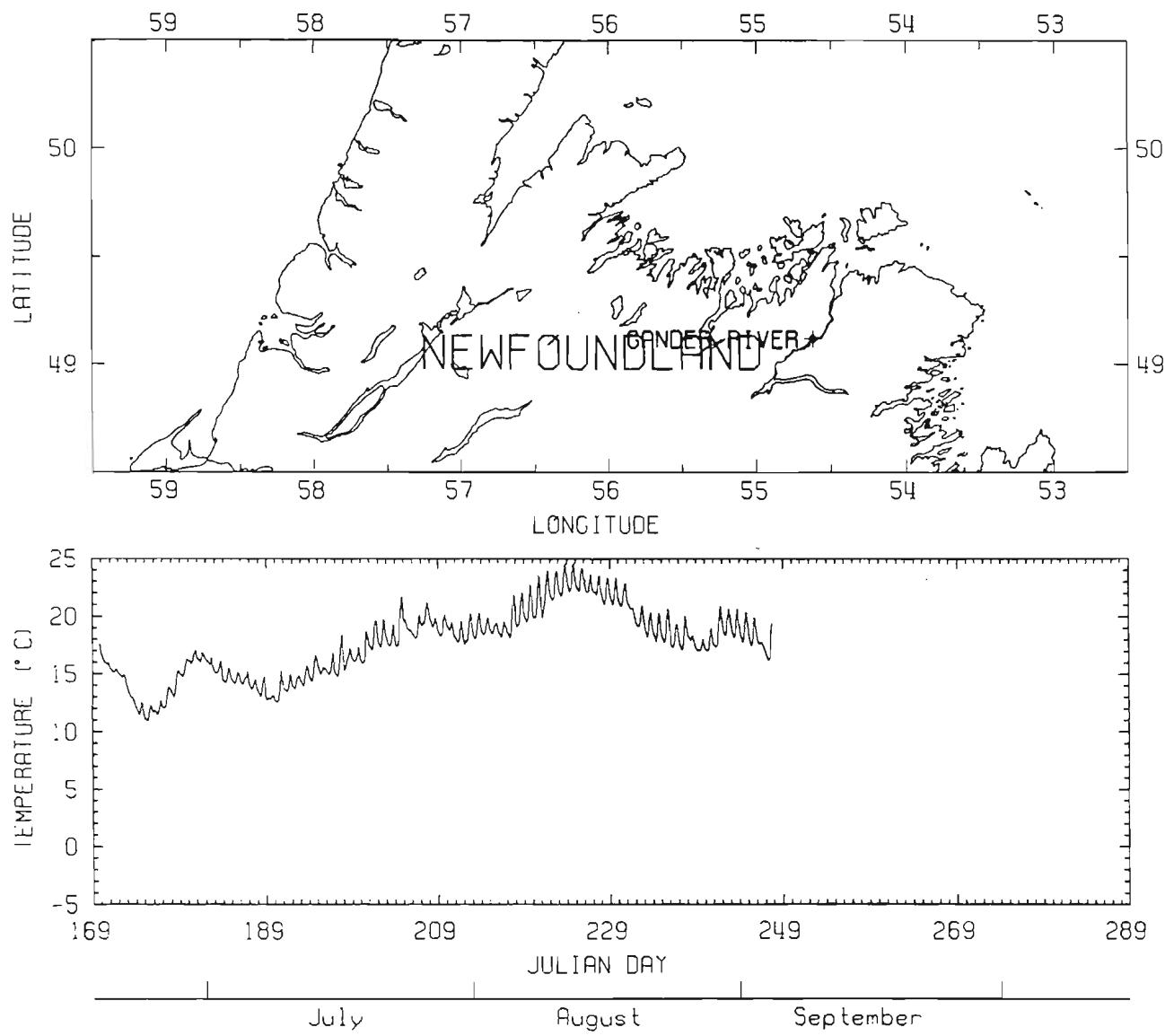
THERMOGRAPH DATA SUMMARY

STATION NAME: GANDER RIVER
STATION NUMBER: 128
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3263
LATITUDE: 49.12° N
LONGITUDE: 54.62° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 2 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 18-JUN-1990 21:00 GMT
RECOVERY DATE/TIME: 4-SEP-1990 19:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1990	10.90	175	17.60	169	14.15	1.84	186.7	134.7	291
JUL-1990	12.60	190	21.70	204	16.47	2.21	510.6	386.6	744
AUG-1990	17.00	239	24.60	223	20.21	1.95	626.4	502.4	744
SEP-1990	16.20	247	20.40	244	18.13	1.07	72.4	56.4	92
Total Period	10.90	175	24.60	223	17.68	3.02	1396.1	1080.1	1871

362



Start: 18-JUN-1990

End: 4-SEP-1990

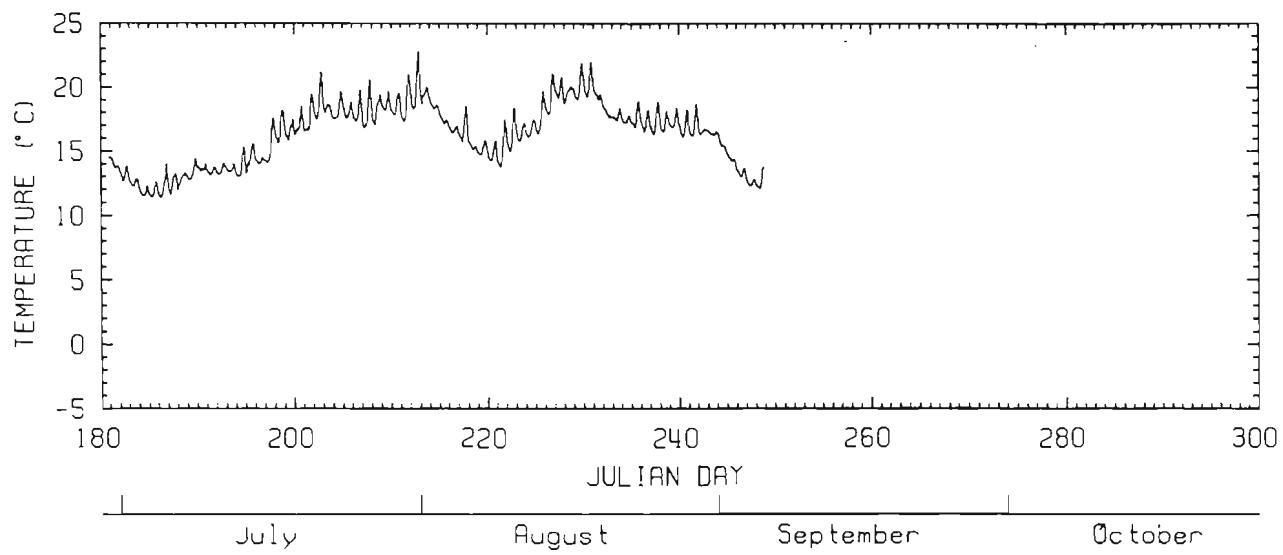
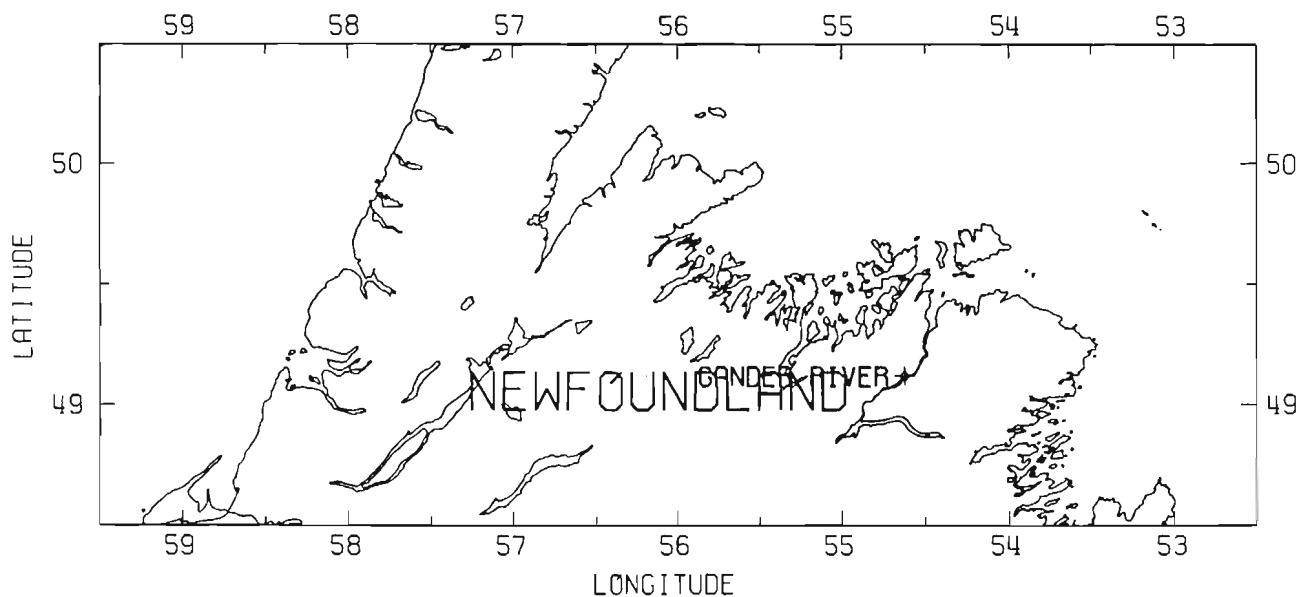
THERMOGRAPH DATA SUMMARY

STATION NAME: GANDER RIVER
STATION NUMBER: 128
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5459
LATITUDE: 49.12° N
LONGITUDE: 54.62° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 29-JUN-1991 19:00 GMT
RECOVERY DATE/TIME: 5-SEP-1991 20:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1991	13.50	181	14.50	180	14.03	0.34	28.4	20.4	29
JUL-1991	11.40	185	22.80	212	15.61	2.70	483.8	359.8	744
AUG-1991	13.70	221	22.00	230	17.46	1.61	541.4	417.4	744
SEP-1991	12.00	248	16.40	244	13.68	1.20	68.3	48.3	117
Total Period	11.40	185	22.80	212	16.29	2.45	1121.9	845.9	1634

364



Start: 29-JUN-1991

End: 5-SEP-1991

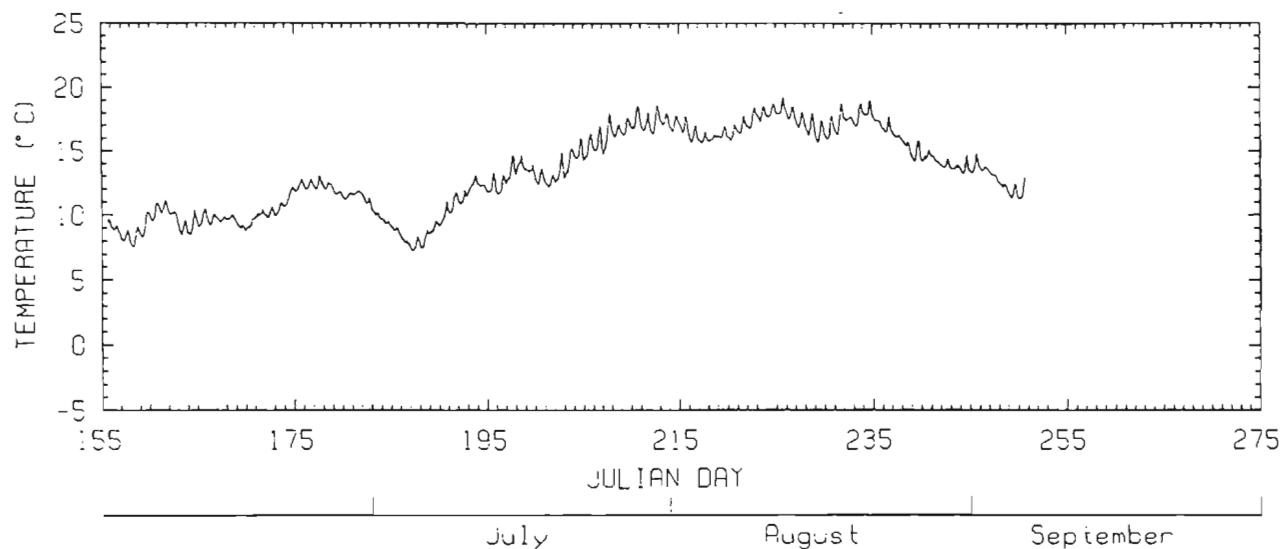
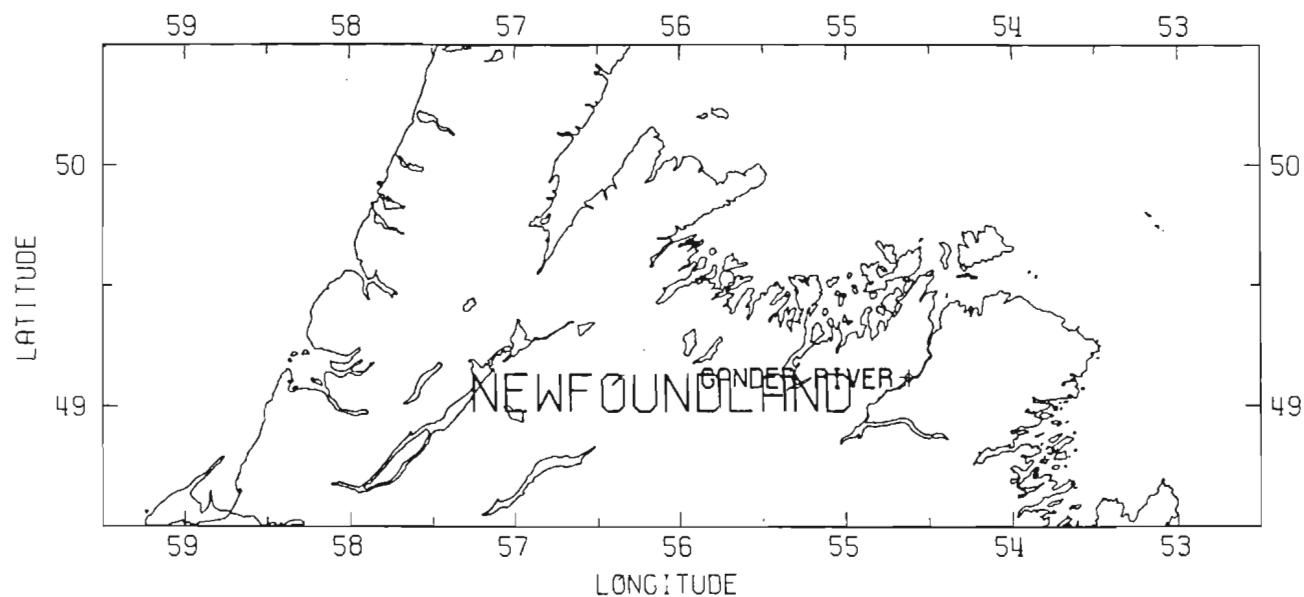
THERMOGRAPH DATA SUMMARY

STATION NAME: GANDER RIVER
STATION NUMBER: 128
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5457
LATITUDE: 49.12° N
LONGITUDE: 54.62° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 3-JUN-1992 14:00 GMT
RECOVERY DATE/TIME: 6-SEP-1992 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1992	7.50	158	13.10	177	10.28	1.28	287.3	175.3	658
JUL-1992	7.30	187	18.60	212	12.93	3.07	400.9	276.9	744
AUG-1992	13.20	244	19.20	225	16.46	1.39	510.2	386.2	744
SEP-1992	11.30	249	14.80	245	12.75	0.90	76.3	52.3	139
Total Period	7.30	187	19.20	225	13.30	3.19	1274.7	890.7	2285

366



Start: 3-JUN-1992

End: 6-SEP-1992

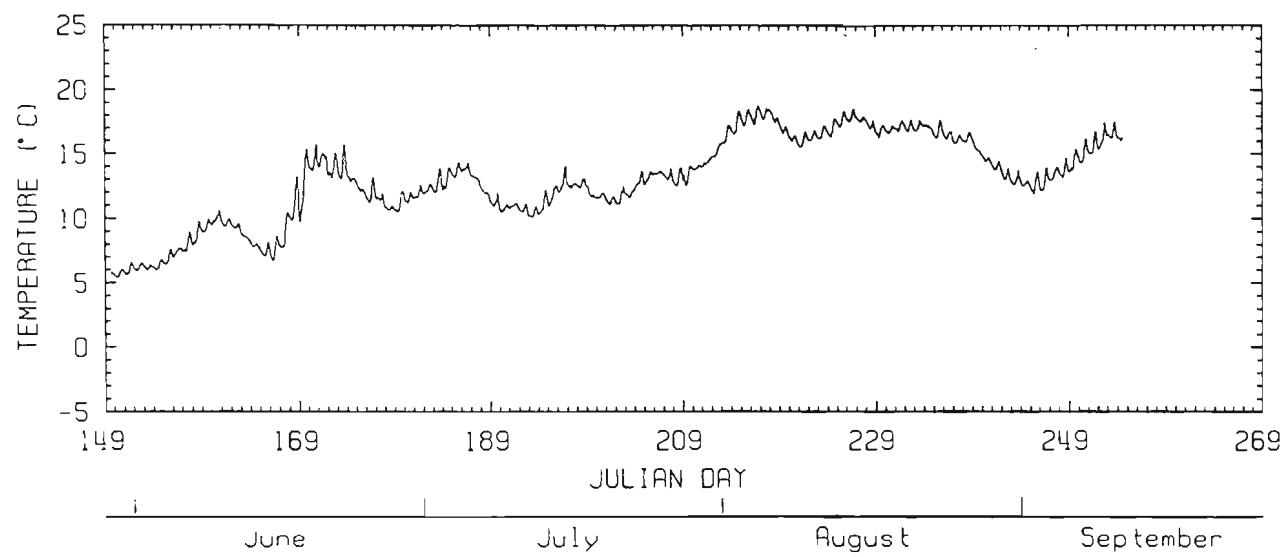
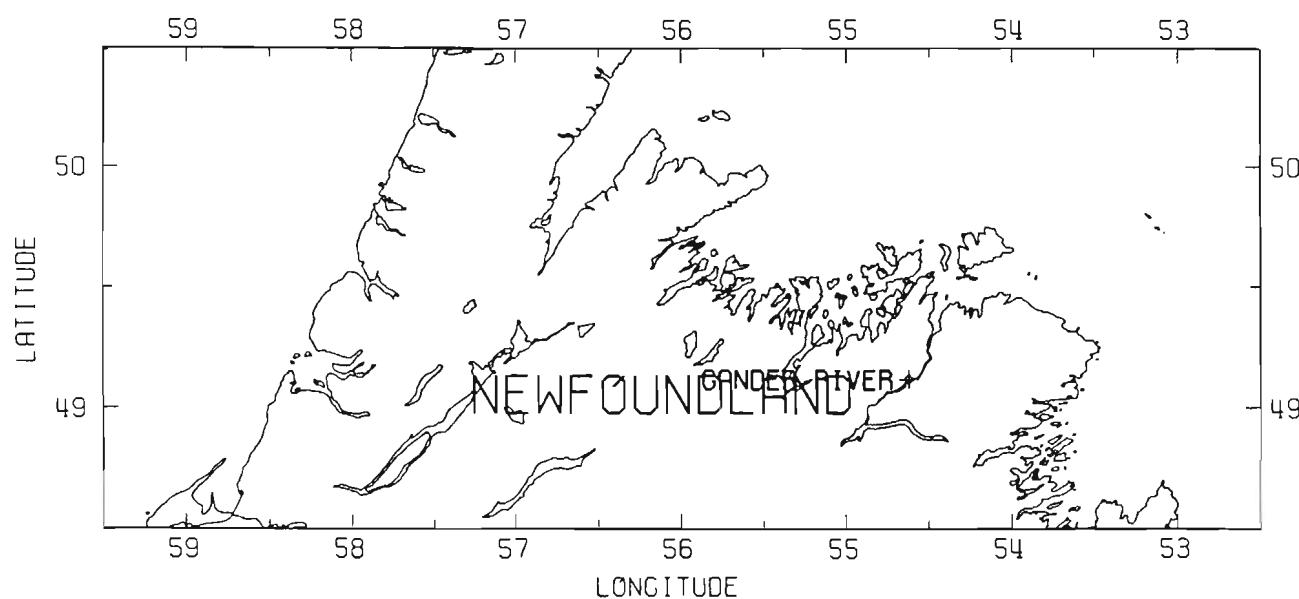
THERMOGRAPH DATA SUMMARY

STATION NAME: GANDER RIVER
STATION NUMBER: 128
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 7873
LATITUDE: 49.12° N
LONGITUDE: 54.62° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 29-MAY-1993 14:00 GMT
RECOVERY DATE/TIME: 11-SEP-1993 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1993	5.40	150	6.55	151	5.83	0.31	17.4	5.4	58
JUN-1993	5.95	152	15.75	173	10.08	2.61	302.5	182.5	720
JUL-1993	10.10	193	15.80	212	12.46	1.19	386.3	262.3	744
AUG-1993	12.60	243	18.80	216	16.55	1.33	513.0	389.0	744
SEP-1993	11.85	245	17.50	252	14.39	1.54	159.1	115.1	254
Total Period	5.40	150	18.80	216	13.03	3.28	1378.3	954.3	2520

368



Start: 29-MAY-1993

End: 11-SEP-1993

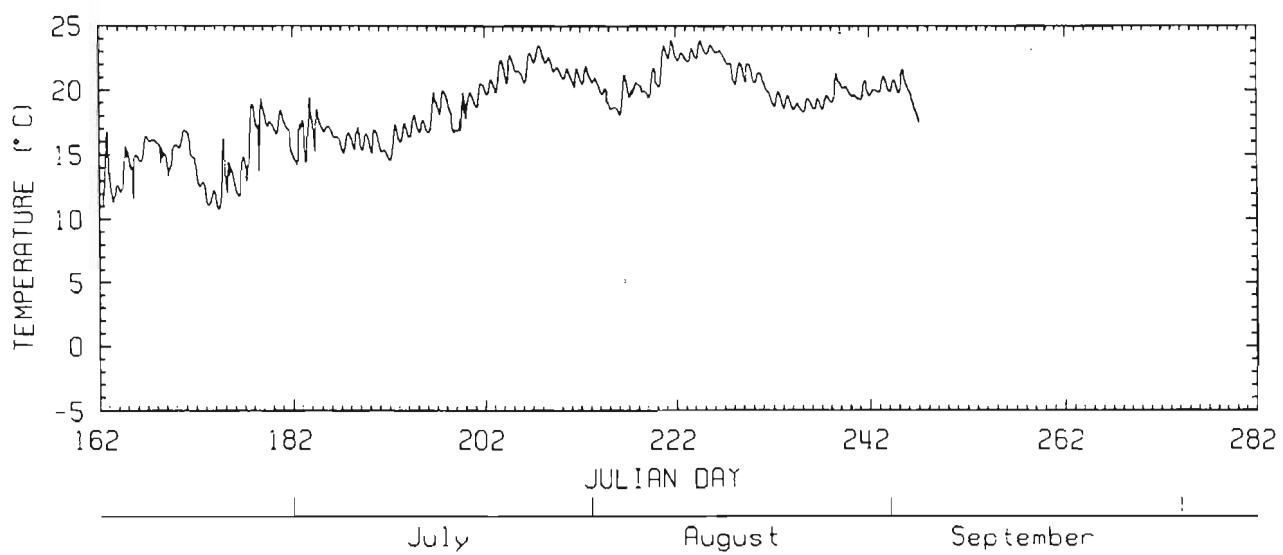
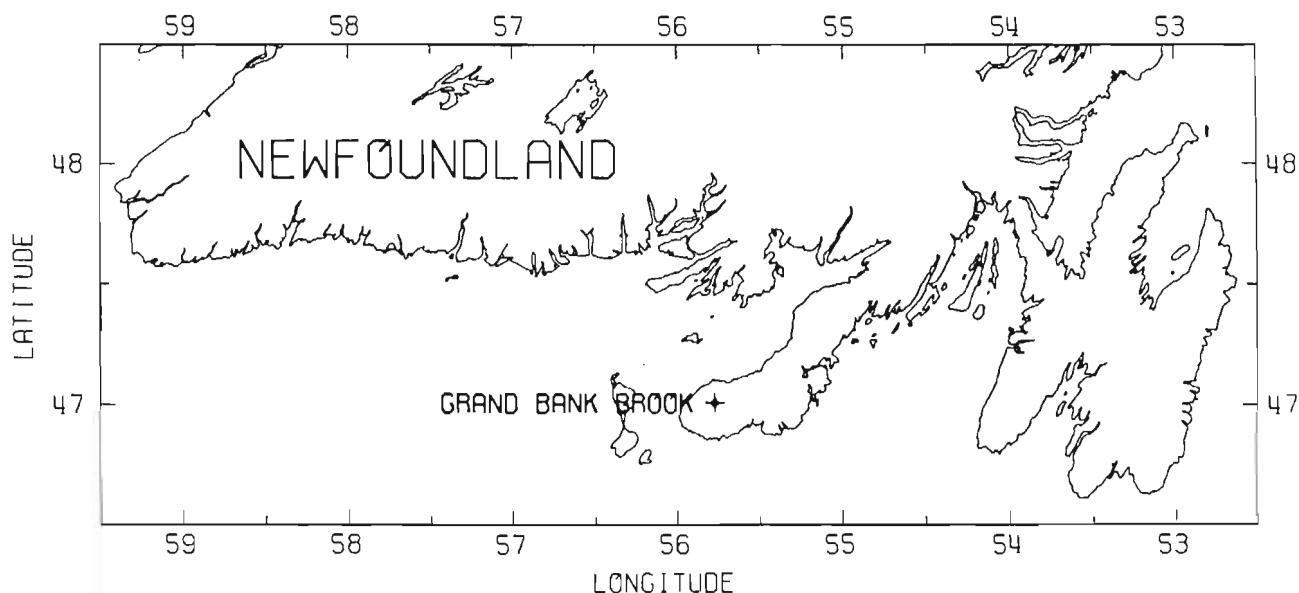
THERMOGRAPH DATA SUMMARY

STATION NAME: GRAND BANK BROOK
STATION NUMBER: 122
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 61673
LATITUDE: 47.01° N
LONGITUDE: 55.77° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 11-JUN-1990 10:30 GMT
RECOVERY DATE/TIME: 4-SEP-1990 03:53 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1990	10.70	174	19.36	178	14.68	1.98	296.0	216.0	260
JUL-1990	14.16	182	23.50	207	18.52	2.42	578.7	454.7	319
AUG-1990	18.06	216	23.97	221	20.60	1.48	639.2	515.2	316
SEP-1990	17.45	247	21.63	245	19.90	1.12	77.6	61.6	39
Total Period	10.70	174	23.97	221	18.21	3.07	1591.4	1247.4	934

370



Start: 11-JUN-1990

End: 4-SEP-1990

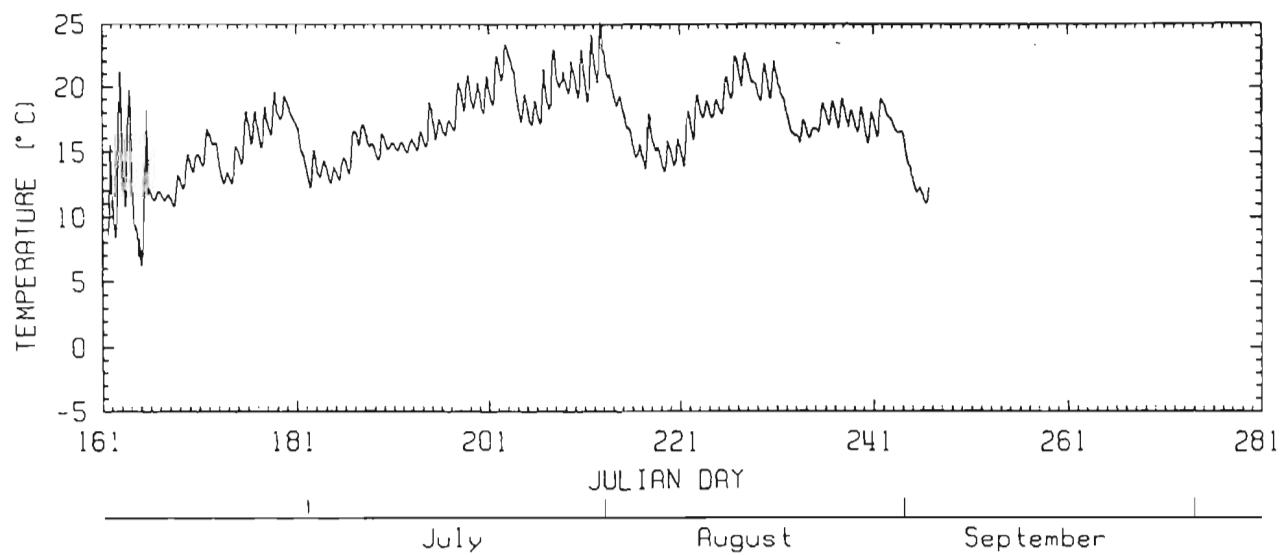
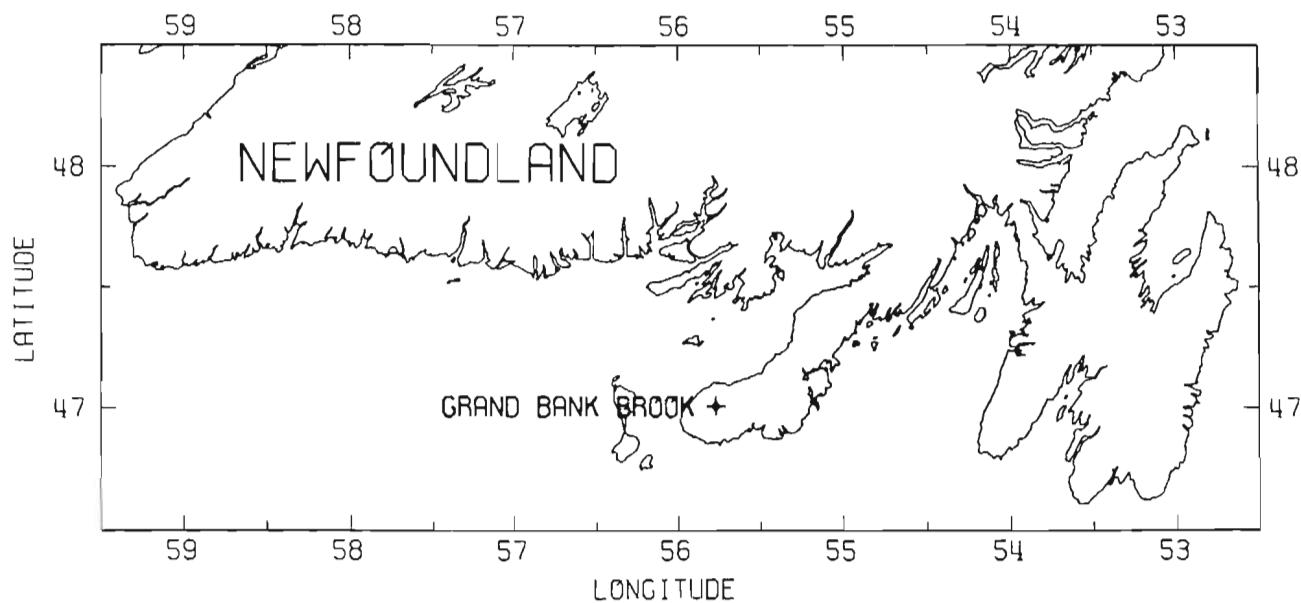
THERMOGRAPH DATA SUMMARY

STATION NAME: GRAND BANK BROOK
STATION NUMBER: 122
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 6644
LATITUDE: 47.01° N
LONGITUDE: 55.77° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 10-JUN-1991 15:00 GMT
RECOVERY DATE/TIME: 3-SEP-1991 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1991	6.20	165	21.20	162	14.33	2.93	299.8	215.8	489
JUL-1991	12.20	182	25.10	212	17.70	2.87	548.6	424.6	744
AUG-1991	13.50	219	22.80	213	17.81	2.05	552.2	428.2	744
SEP-1991	11.00	246	16.50	244	12.92	1.53	38.4	26.4	66
Total Period	6.20	165	25.10	212	16.78	3.05	1439.0	1095.0	2043

372



Start: 10-JUN-1991

End: 3-SEP-1991

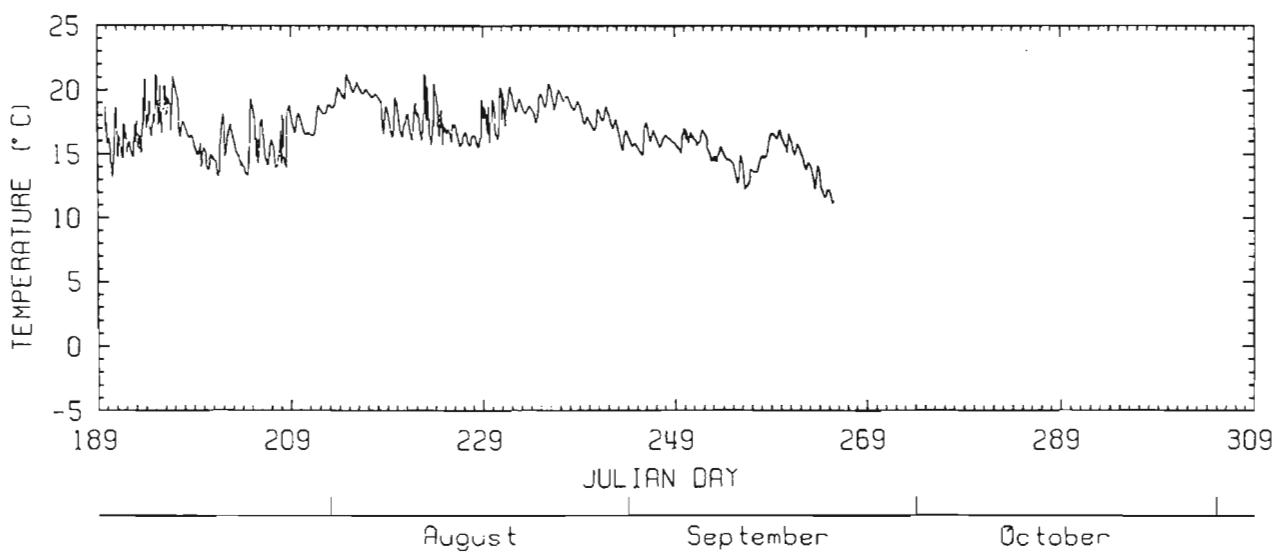
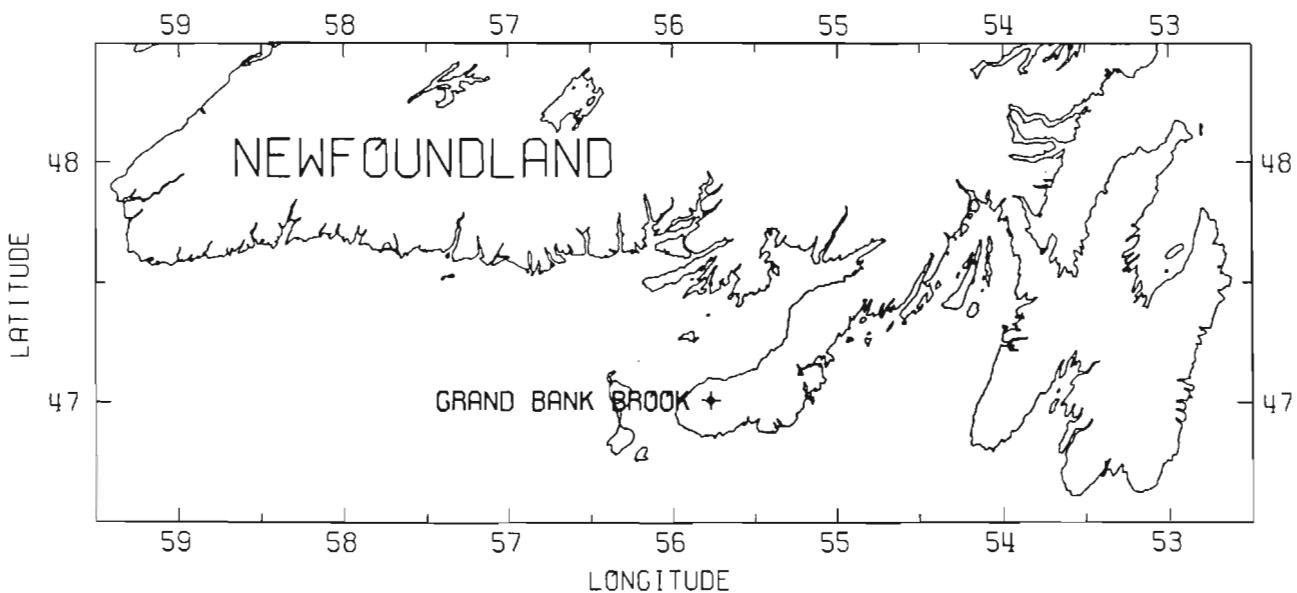
THERMOGRAPH DATA SUMMARY

STATION NAME: GRAND BANK BROOK
STATION NUMBER: 122
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 6644
LATITUDE: 47.01° N
LONGITUDE: 55.77° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 8-JUL-1993 19:00 GMT
RECOVERY DATE/TIME: 22-SEP-1993 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-1993	13.10	190	21.30	195	16.48	1.73	396.5	300.5	557
AUG-1993	15.30	243	21.30	222	18.19	1.39	563.8	439.8	744
SEP-1993	11.10	265	17.50	246	15.03	1.43	329.5	241.5	520
Total Period	11.10	265	21.30	195	16.76	2.00	1289.9	981.9	1821

374



Start: 8-JUL-1993

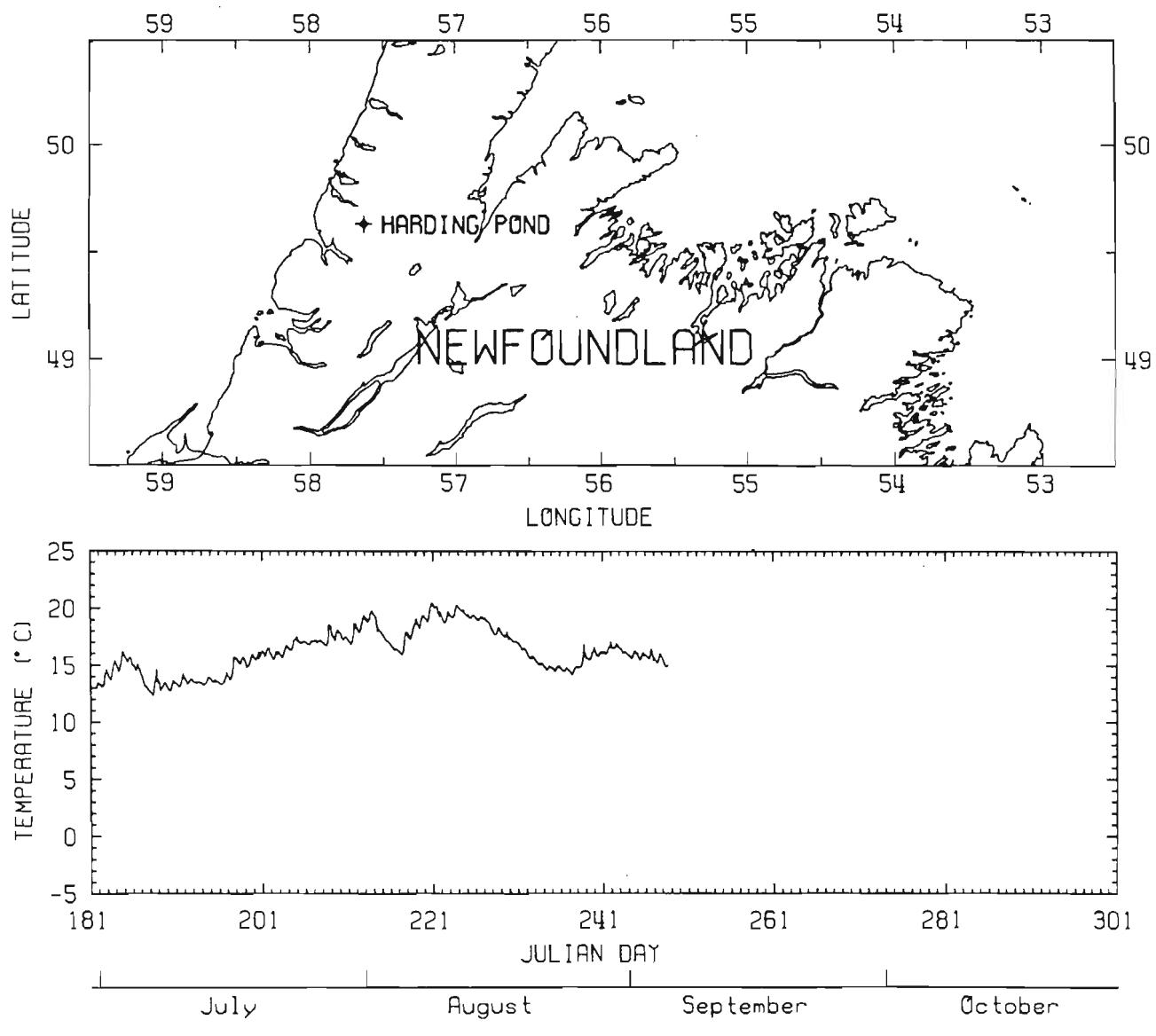
End: 22-SEP-1993

THERMOGRAPH DATA SUMMARY

STATION NAME: HARDING POND
STATION NUMBER: 135
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3260
LATITUDE: 49.63° N
LONGITUDE: 57.63° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 30-JUN-1990 15:00 GMT
RECOVERY DATE/TIME: 5-SEP-1990 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1990	12.90	181	13.40	181	13.22	0.19	13.2	9.2	9
JUL-1990	12.30	188	19.40	212	15.26	1.70	473.0	349.0	744
AUG-1990	14.20	237	20.50	220	17.28	1.74	535.7	411.7	744
SEP-1990	14.90	248	16.50	246	15.68	0.35	78.2	58.2	112
Total Period	12.30	188	20.50	220	16.21	1.94	1100.1	828.1	1609



Start: 30-JUN-1990

End: 5-SEP-1990

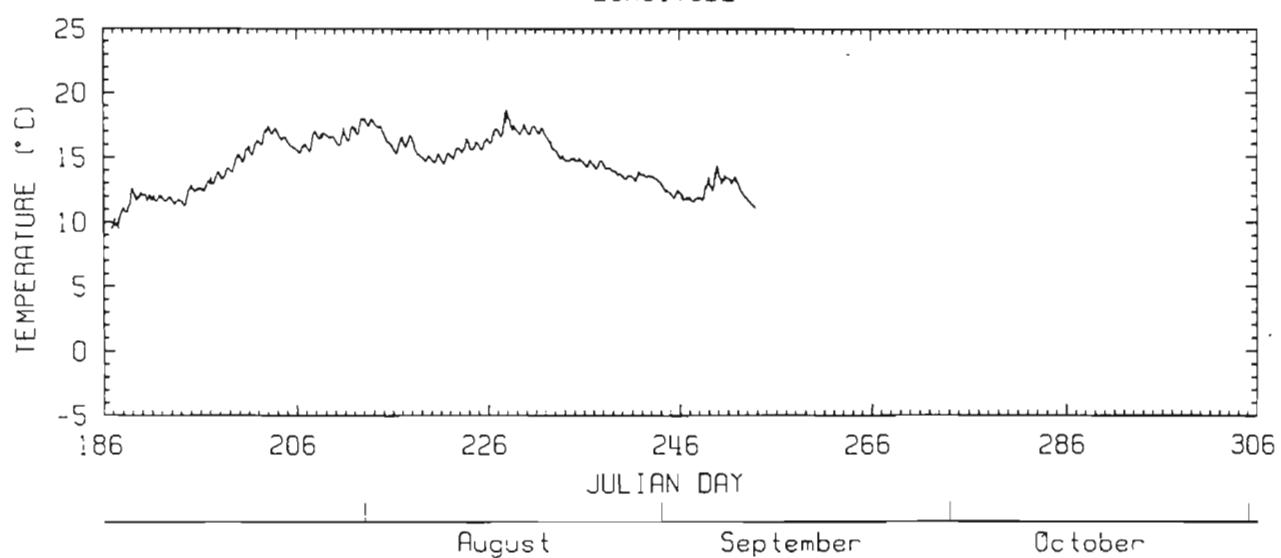
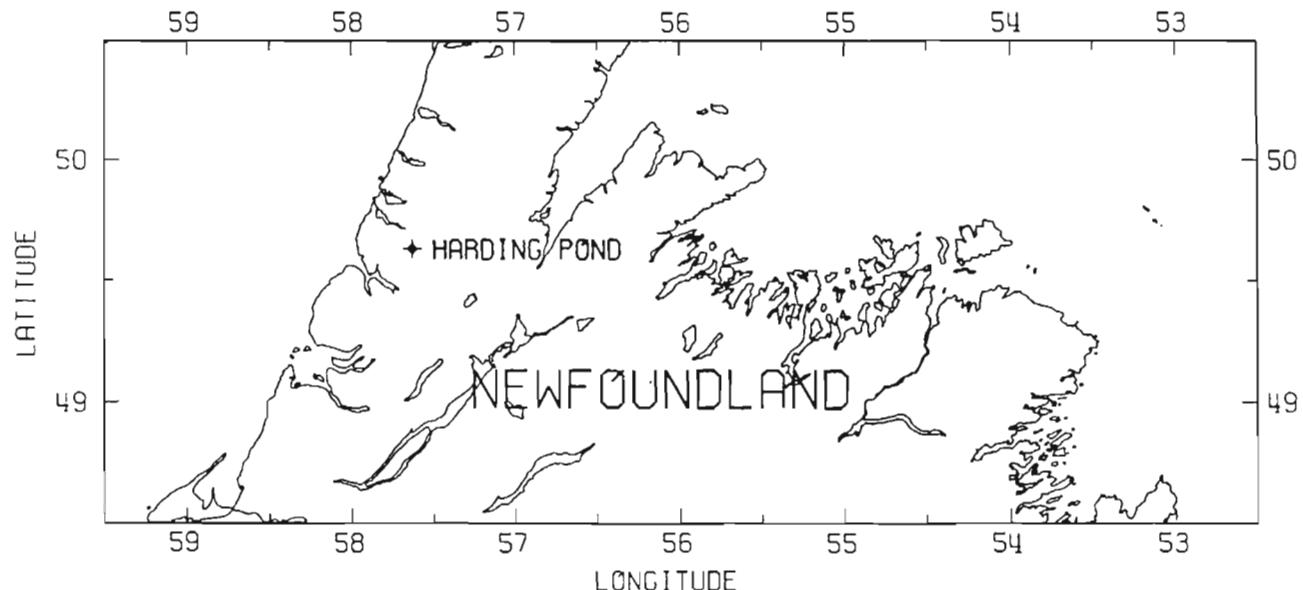
THERMOGRAPH DATA SUMMARY

STATION NAME: HARDING POND
STATION NUMBER: 135
INSTRUMENT TYPE: Ryan TempMentor
INSTRUMENT S/N: 900653
LATITUDE: 49.63° N
LONGITUDE: 57.63° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 15 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 5-JUL-1991 19:55 GMT
RECOVERY DATE/TIME: 10-SEP-1991 20:55 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUL-1991	9.50	186	18.00	212	14.23	2.27	380.6	272.6	629
AUG-1991	13.00	243	18.70	227	15.49	1.34	480.3	356.3	744
SEP-1991	11.10	253	14.30	249	12.41	0.70	124.0	84.0	237
Total Period	9.50	186	18.70	227	14.55	2.01	984.9	712.9	1610

378



Start: 5-JUL-1991

End: 10-SEP-1991

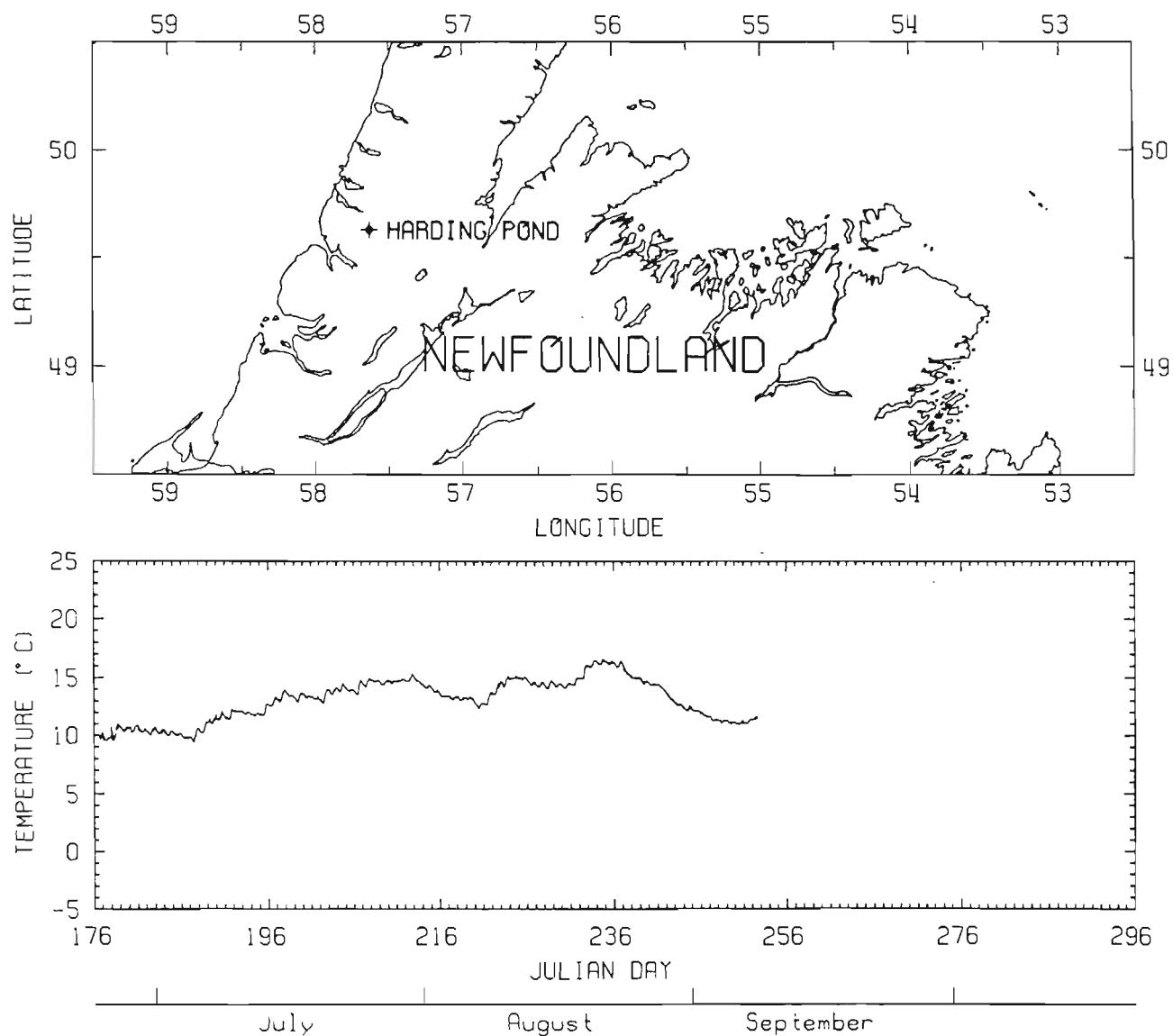
THERMOGRAPH DATA SUMMARY

STATION NAME: HARDING POND
STATION NUMBER: 135
INSTRUMENT TYPE: Ryan TempMentor
INSTRUMENT S/N: 900652
LATITUDE: 49.63° N
LONGITUDE: 57.63° W
INSTRUMENT DEPTH: 3 m
WATER DEPTH: 13 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 24-JUN-1992 16:06 GMT
RECOVERY DATE/TIME: 8-SEP-1992 15:06 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-1992	9.50	177	11.00	178	10.29	0.39	71.8	43.8	152
JUL-1992	9.40	187	15.30	212	12.74	1.66	395.0	271.0	744
AUG-1992	12.10	244	16.60	234	14.34	1.10	444.7	320.7	744
SEP-1992	11.00	249	12.30	245	11.42	0.36	91.4	59.4	184
Total Period	9.40	187	16.60	234	13.06	1.80	1002.9	694.9	1824

380



Start: 24-JUN-1992

End: 8-SEP-1992

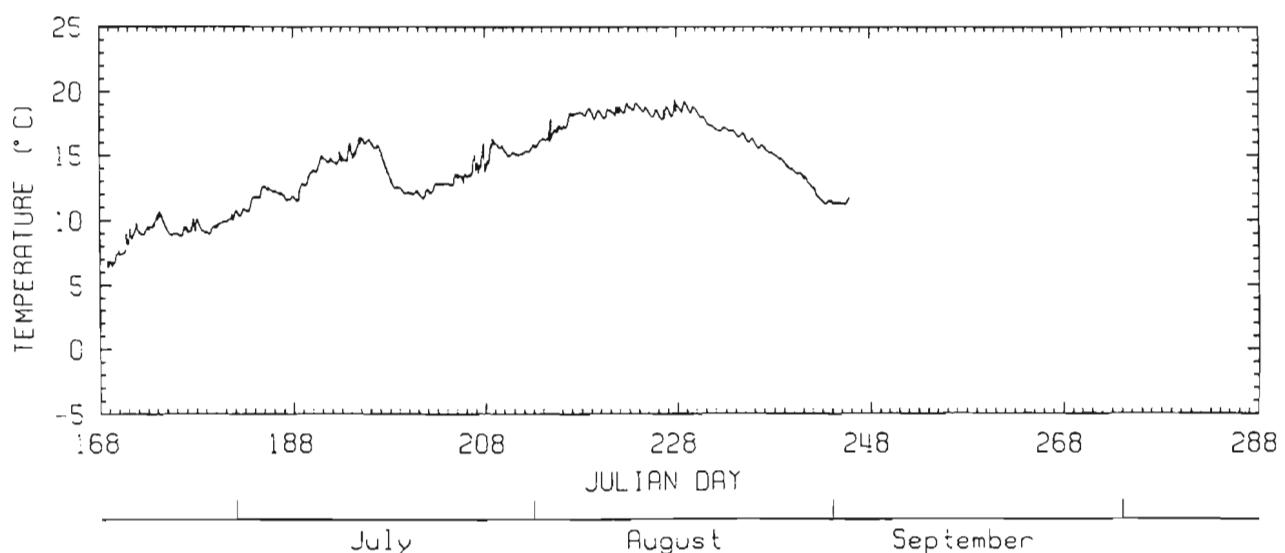
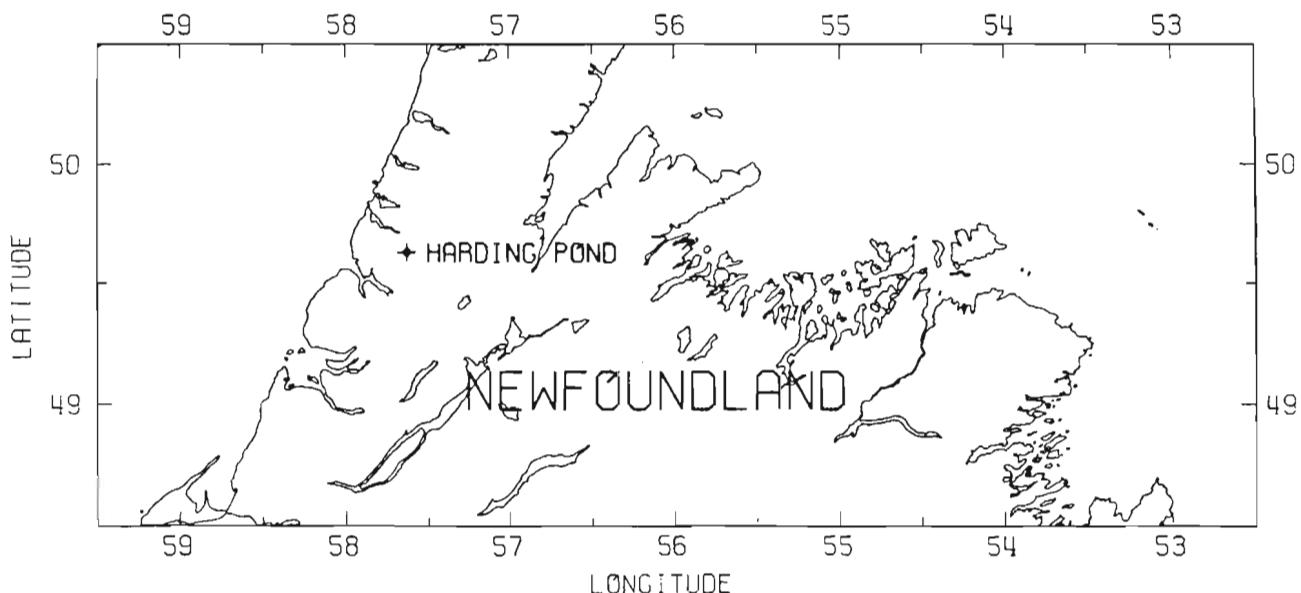
THERMOGRAPH DATA SUMMARY

STATION NAME: HARDING POND
STATION NUMBER: 135
INSTRUMENT TYPE: Ryan TempMentor
INSTRUMENT S/N: 900654
LATITUDE: 49.63° N
LONGITUDE: 57.63° W
INSTRUMENT DEPTH: 3 m
WATER DEPTH: 14 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 17-JUN-1993 18:12 GMT
RECOVERY DATE/TIME: 2-SEP-1993 21:12 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-1993	6.30	168	10.70	174	9.06	0.97	124.9	68.9	318
JUL-1993	10.30	182	16.50	194	13.54	1.57	419.7	295.7	744
AUG-1993	11.30	243	19.30	227	16.74	2.06	519.1	395.1	744
SEP-1993	11.20	245	11.80	245	11.35	0.12	22.7	14.7	46
Total Period	6.30	168	19.30	227	14.00	3.22	1086.4	774.4	1852

382



Start: 17-JUN-1993

End: 2-SEP-1993

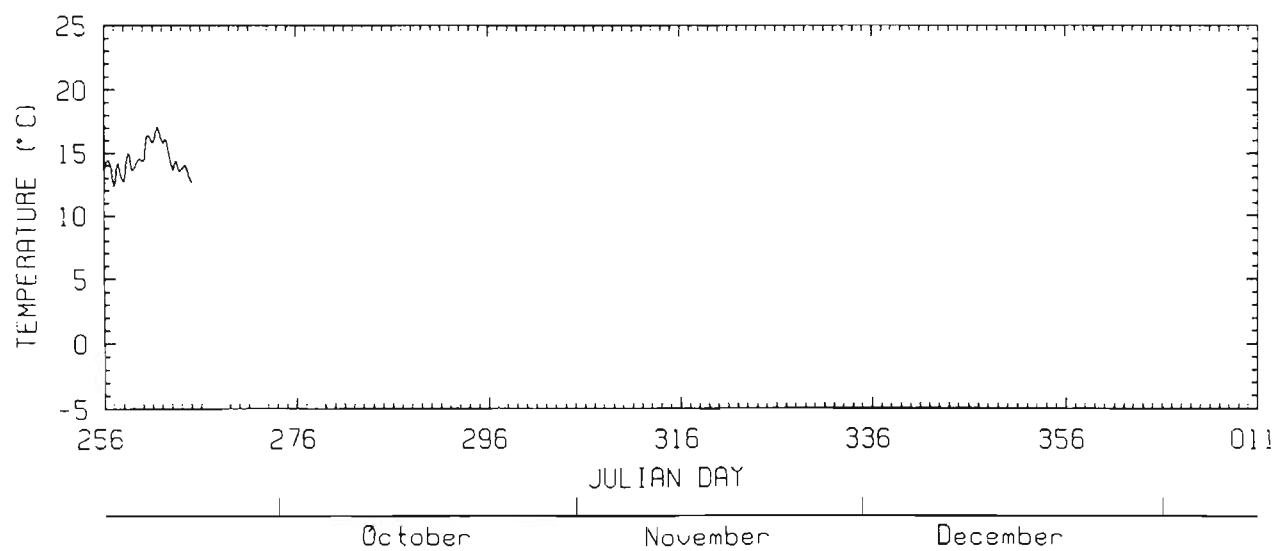
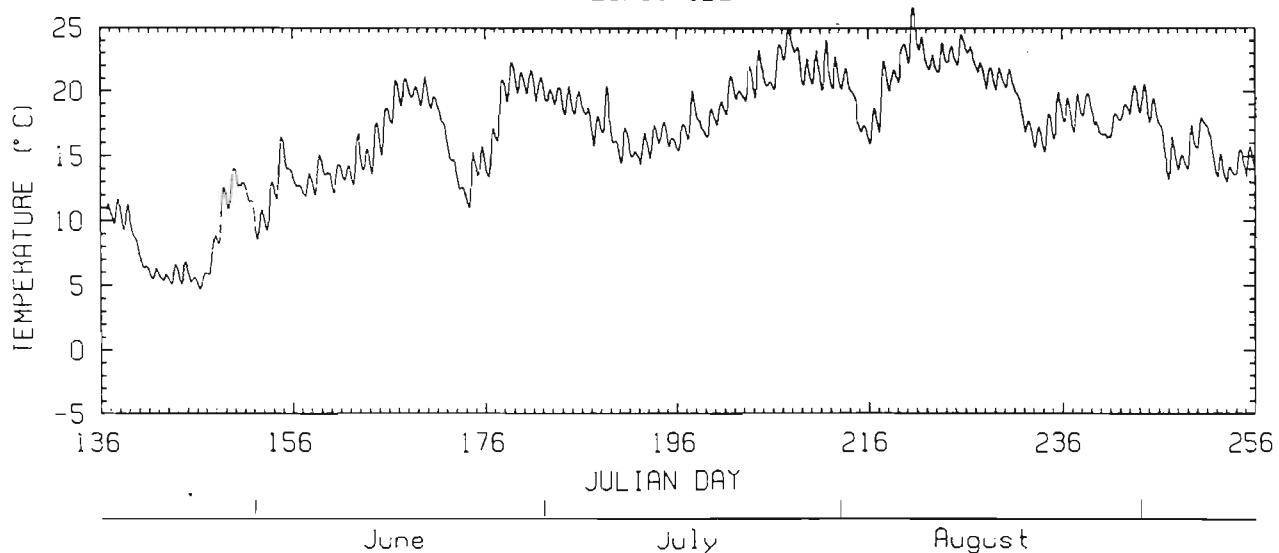
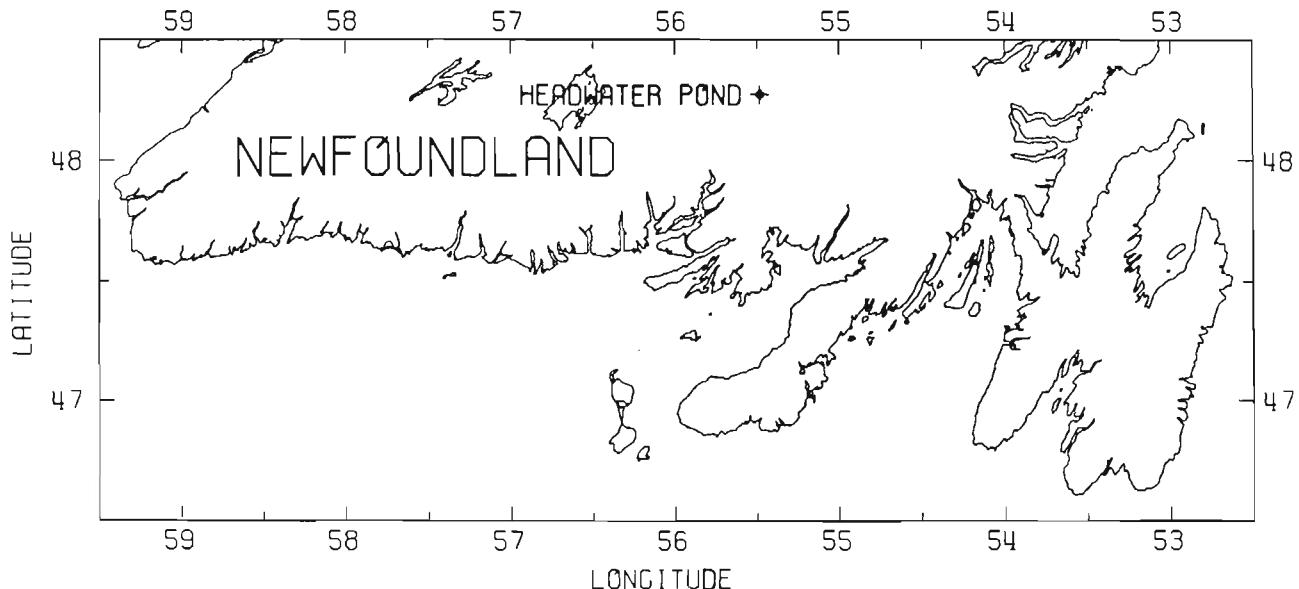
THERMOGRAPH DATA SUMMARY

STATION NAME: HEADWATER POND
STATION NUMBER: 141
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 62545
LATITUDE: 48.27° N
LONGITUDE: 55.48° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 16-MAY-1990 16:05 GMT
RECOVERY DATE/TIME: 22-SEP-1990 03:49 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-1990	4.65	146	14.07	149	8.43	2.71	136.0	72.0	162
JUN-1990	8.41	152	22.34	178	15.89	3.41	476.9	356.9	314
JUL-1990	14.35	192	24.95	207	19.06	2.52	590.2	466.2	347
AUG-1990	15.23	234	26.64	220	19.99	2.54	619.7	495.7	345
SEP-1990	12.30	257	20.67	244	15.33	1.82	332.0	244.0	232
Total Period	4.65	146	26.64	220	16.73	4.43	2154.8	1634.8	1400

384



Start: 16-MAY-1990

End: 22-SEP-1990

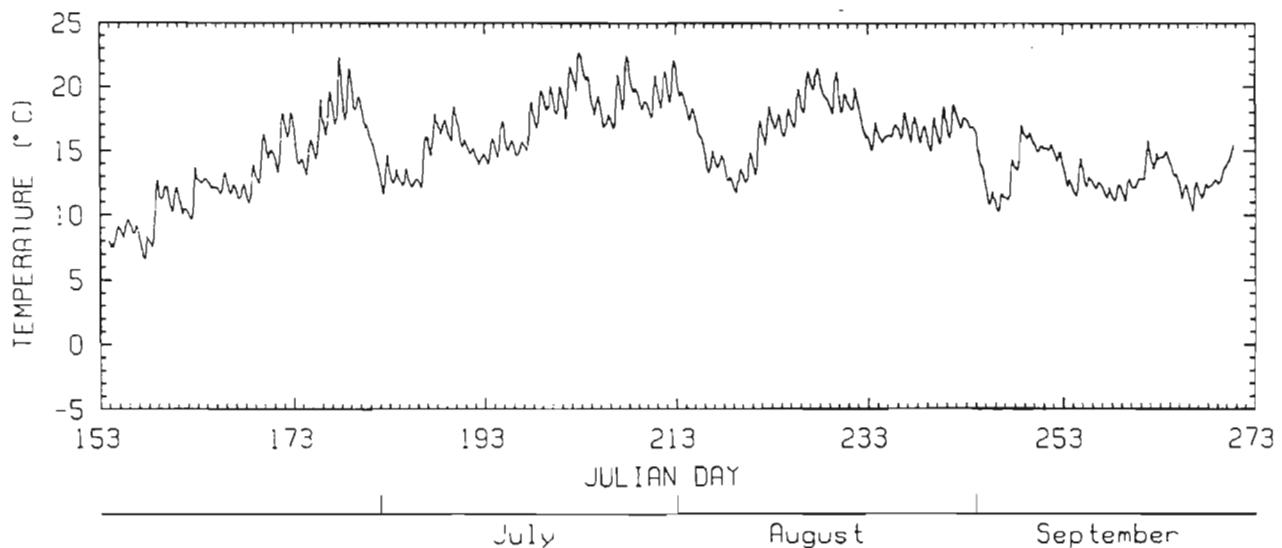
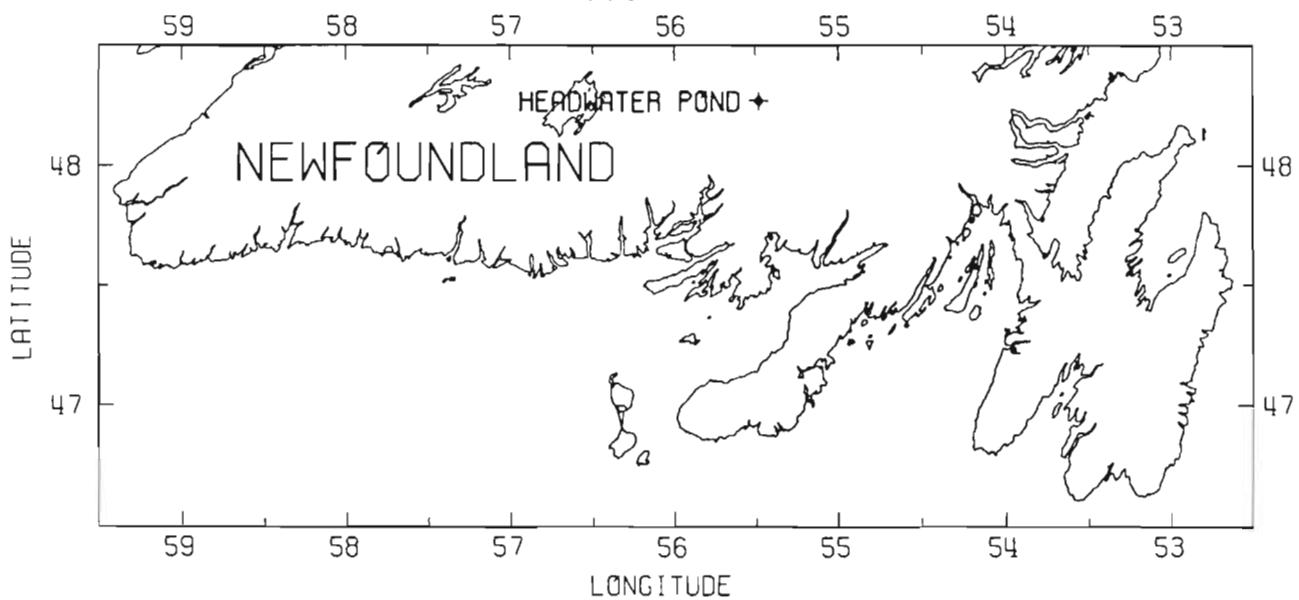
THERMOGRAPH DATA SUMMARY

STATION NAME: HEADWATER POND
STATION NUMBER: 141
INSTRUMENT TYPE: Ryan TempMentor
INSTRUMENT S/N: 900287
LATITUDE: 48.27° N
LONGITUDE: 55.48° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 2-JUN-1991 22:50 GMT
RECOVERY DATE/TIME: 27-SEP-1991 17:50 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-1991	6.60	157	22.30	177	13.36	3.47	382.3	266.3	674
JUL-1991	11.60	182	22.70	202	17.05	2.70	528.4	404.4	744
AUG-1991	11.70	219	21.50	227	16.83	2.08	521.8	397.8	744
SEP-1991	10.20	246	17.00	248	13.14	1.53	355.1	247.1	642
Total Period	6.60	157	22.70	202	15.21	3.15	1787.7	1315.7	2804

386



Start: 2-JUN-1991

End: 27-SEP-1991

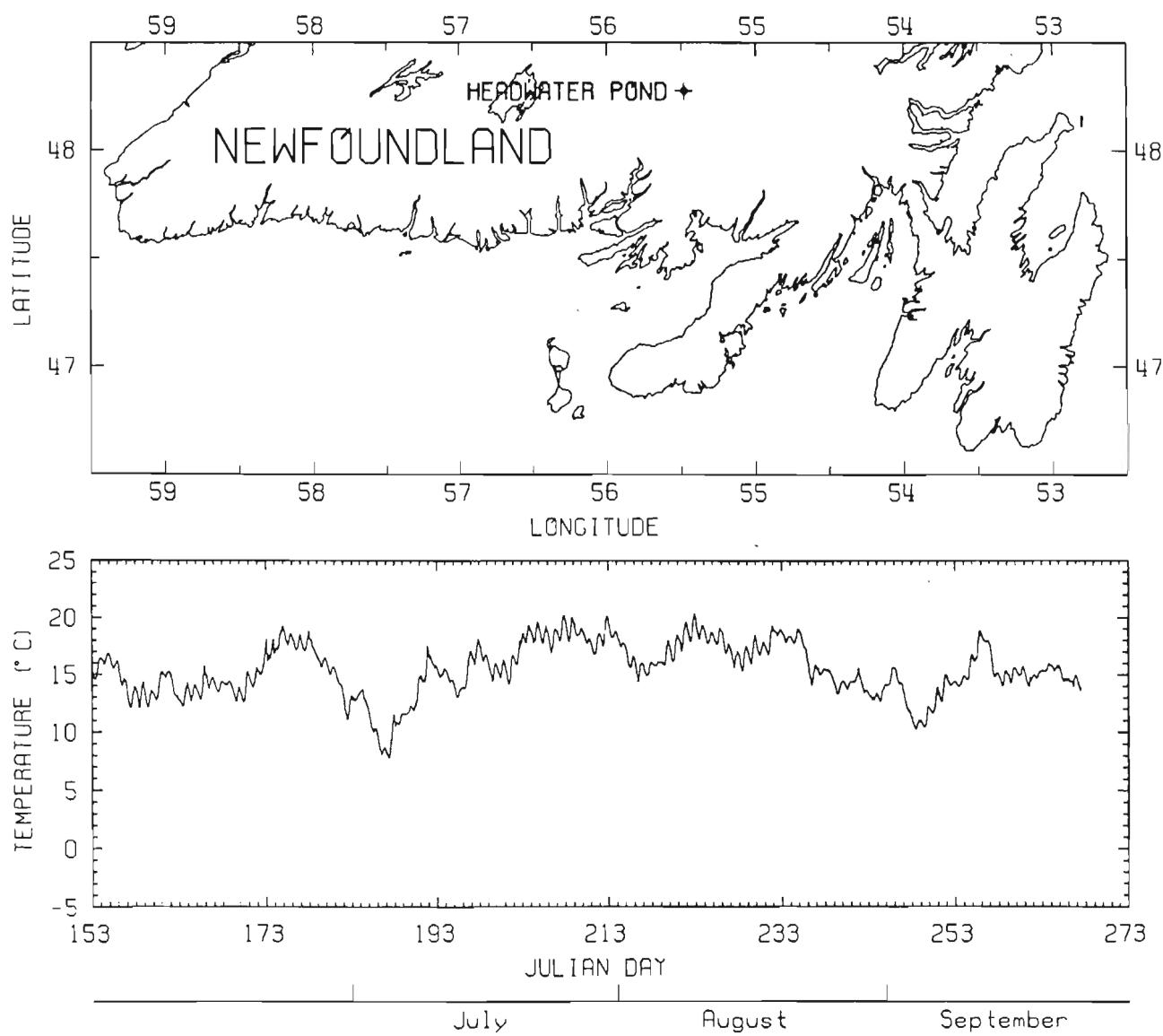
THERMOGRAPH DATA SUMMARY

STATION NAME: HEADWATER POND
STATION NUMBER: 141
INSTRUMENT TYPE: Ryan TempMentor
INSTRUMENT S/N: 900287
LATITUDE: 48.27° N
LONGITUDE: 55.48° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 1-JUN-1992 00:00 GMT
RECOVERY DATE/TIME: 23-SEP-1992 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1992	11.10	182	19.30	174	14.94	1.81	448.3	328.3	720
JUL-1992	7.80	187	20.20	207	15.47	3.07	479.7	355.7	744
AUG-1992	12.60	244	20.40	222	16.51	1.81	511.8	387.8	744
SEP-1992	10.30	248	18.90	255	14.49	1.74	333.3	241.3	543
Total Period	7.80	187	20.40	222	15.42	2.33	1773.1	1313.1	2751

388



Start: 1-JUN-1992

End: 23-SEP-1992

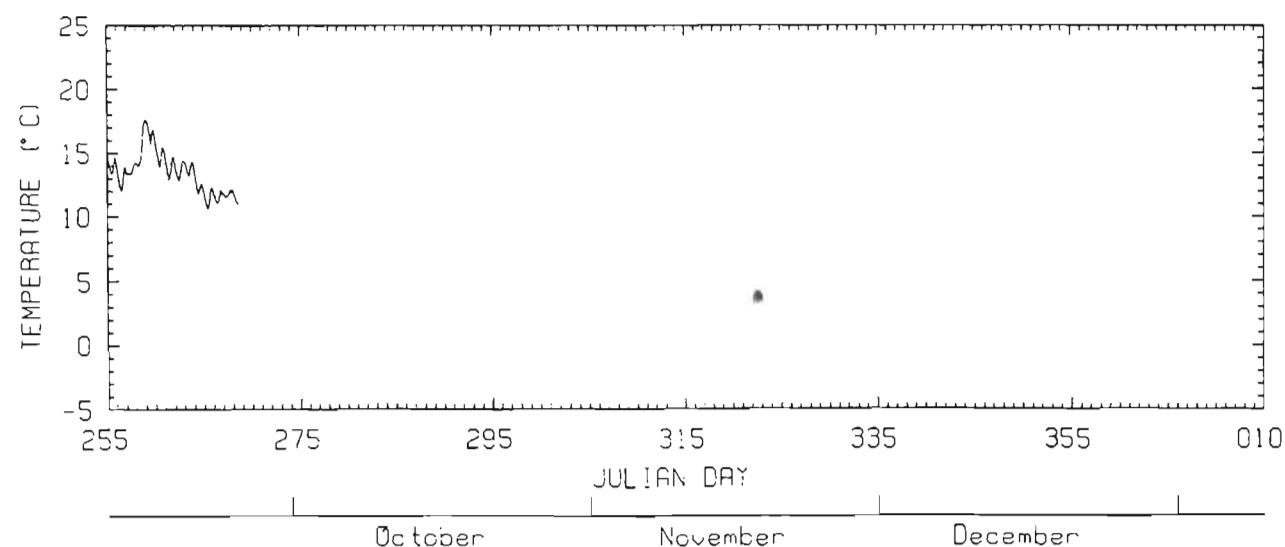
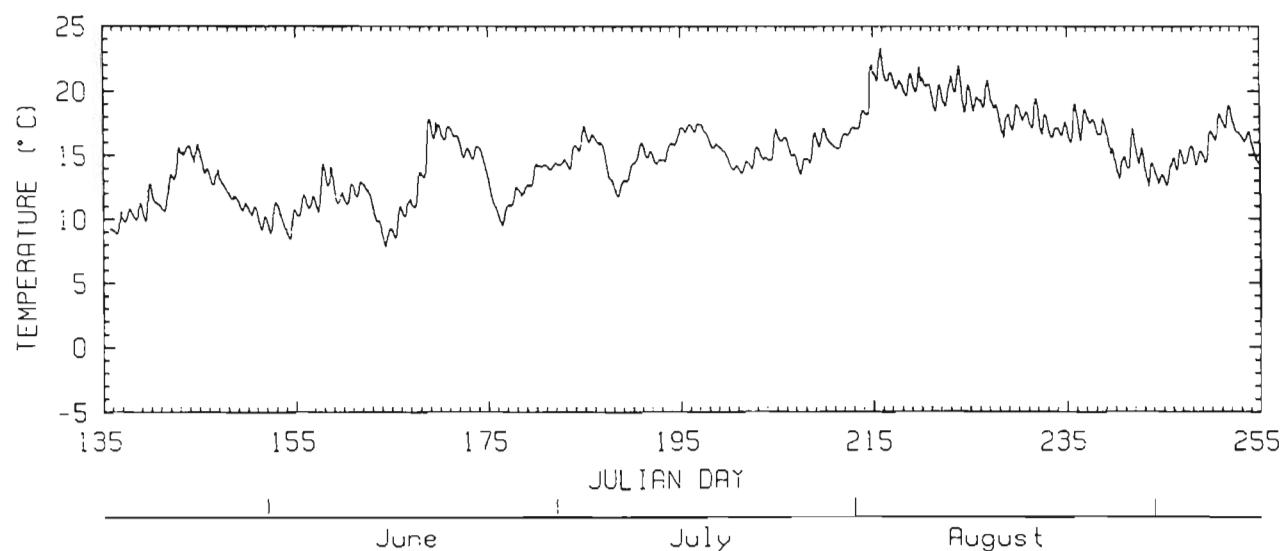
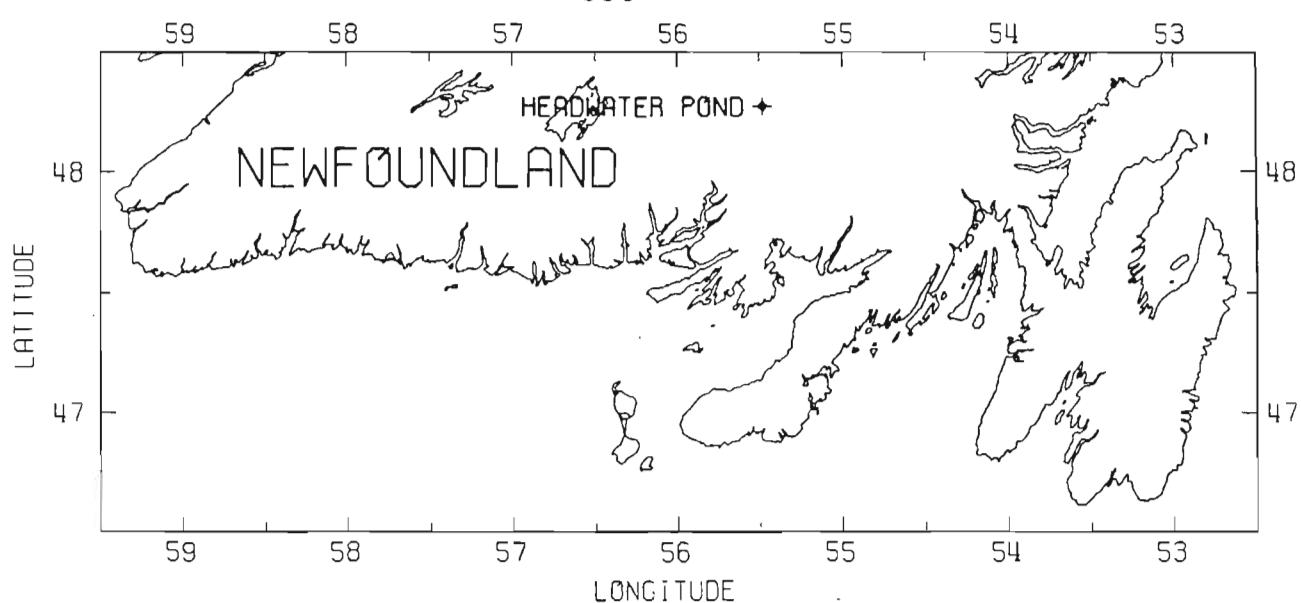
THERMOGRAPH DATA SUMMARY

STATION NAME: HEADWATER POND
STATION NUMBER: 141
INSTRUMENT TYPE: Ryan TempMentor
INSTRUMENT S/N: 900652
LATITUDE: 48.27° N
LONGITUDE: 55.48° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 15-MAY-1993 16:16 GMT
RECOVERY DATE/TIME: 25-SEP-1993 15:16 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1993	8.80	136	15.90	144	11.94	1.94	201.1	133.1	392
JUN-1993	7.80	164	17.80	168	12.43	2.37	373.0	253.0	720
JUL-1993	11.80	188	17.50	196	15.31	1.23	474.5	350.5	744
AUG-1993	12.50	243	23.30	215	18.25	2.16	565.7	441.7	744
SEP-1993	10.60	265	18.90	251	14.35	1.88	357.8	257.8	592
Total Period	7.80	164	23.30	215	14.75	2.99	1972.1	1436.1	3192

390



Start: 15-MAY-1993

End: 25-SEP-1993

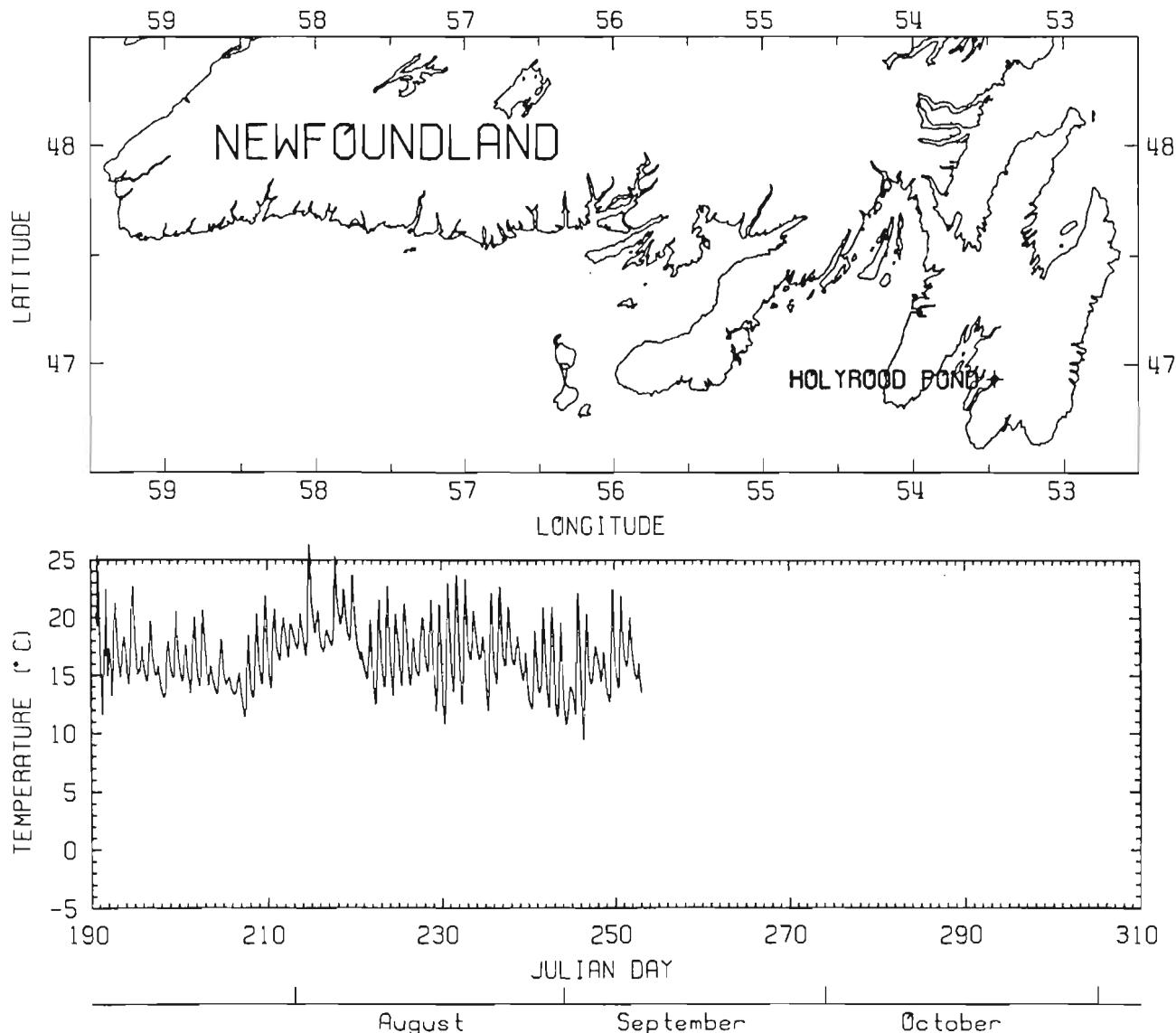
THERMOGRAPH DATA SUMMARY

STATION NAME: HOLYROOD POND
STATION NUMBER: 183
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 7819
LATITUDE: 46.93° N
LONGITUDE: 53.46° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 9-JUL-1993 12:00 GMT
RECOVERY DATE/TIME: 10-SEP-1993 03:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUL-1993	11.40	207	25.40	190	16.34	2.39	378.3	286.3	540
AUG-1993	10.80	230	26.30	214	17.44	2.86	540.7	416.7	744
SEP-1993	9.40	246	22.50	249	15.60	2.74	154.5	114.5	220
Total Period	9.40	246	26.30	214	16.78	2.77	1073.5	817.5	1504

392



Start: 9-JUL-1993

End: 10-SEP-1993

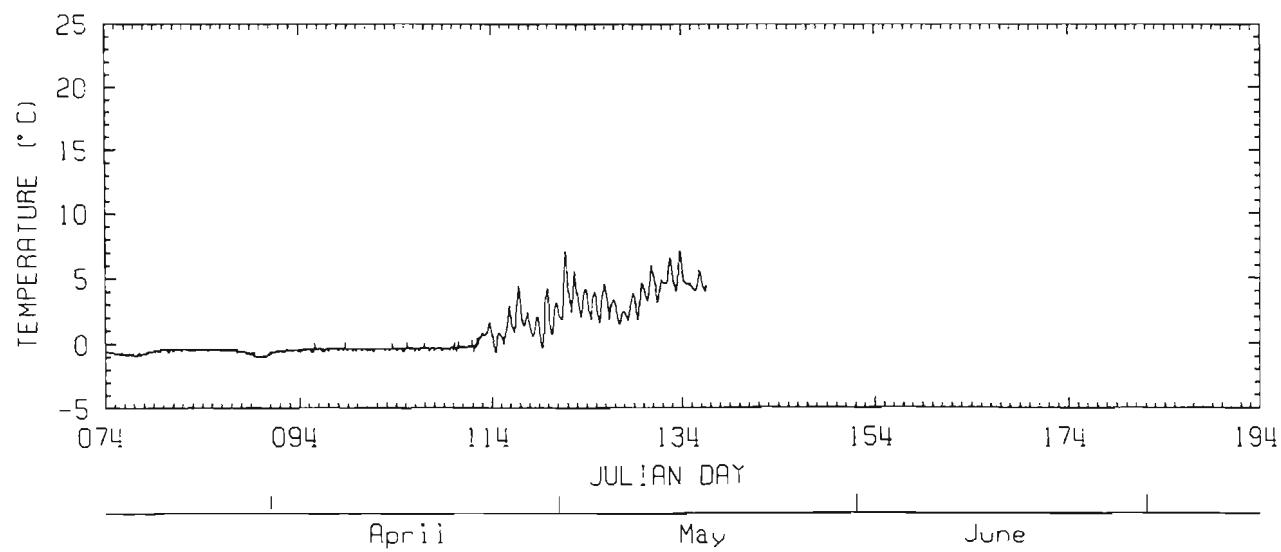
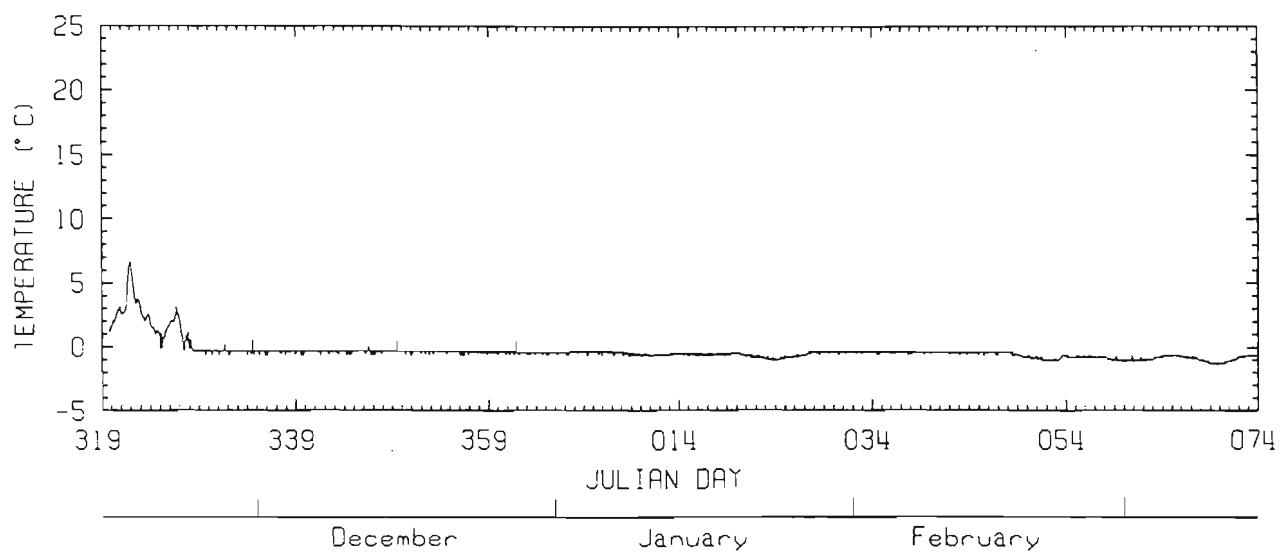
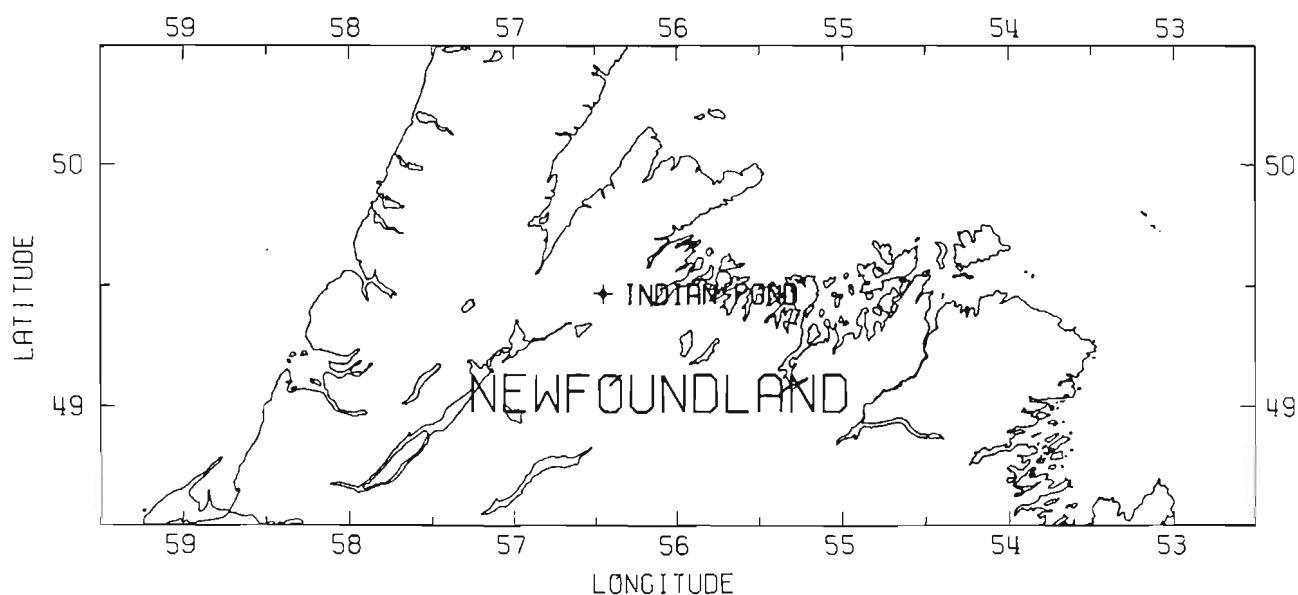
THERMOGRAPH DATA SUMMARY

STATION NAME: INDIAN POND
STATION NUMBER: 140
INSTRUMENT TYPE: Ryan TempMentor
INSTRUMENT S/N: 900655
LATITUDE: 49.47° N
LONGITUDE: 56.45° W
INSTRUMENT DEPTH: 2 m
WATER DEPTH: 8 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 15-NOV-1989 19:33 GMT
RECOVERY DATE/TIME: 16-MAY-1990 13:33 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
NOV-1989	-0.70	329	6.70	321	1.08	1.65	19.6	0.2	365
DEC-1989	-0.70	335	0.60	349	-0.35	0.12	0.0	0.0	744
JAN-1990	-6.60	6	-0.20	6	-0.56	0.28	0.0	0.0	744
FEB-1990	-1.10	59	-0.30	33	-0.58	0.23	0.0	0.0	672
MAR-1990	-1.30	68	-0.30	86	-0.76	0.25	0.0	0.0	744
APR-1990	-0.80	91	4.40	116	0.09	1.02	11.6	0.0	720
MAY-1990	1.40	127	7.10	121	3.77	1.29	60.6	4.7	374
Total Period	-6.60	6	7.10	121	0.05	1.45	91.8	4.9	4363

394



Start: 15-NOV-1989

End: 16-MAY-1990

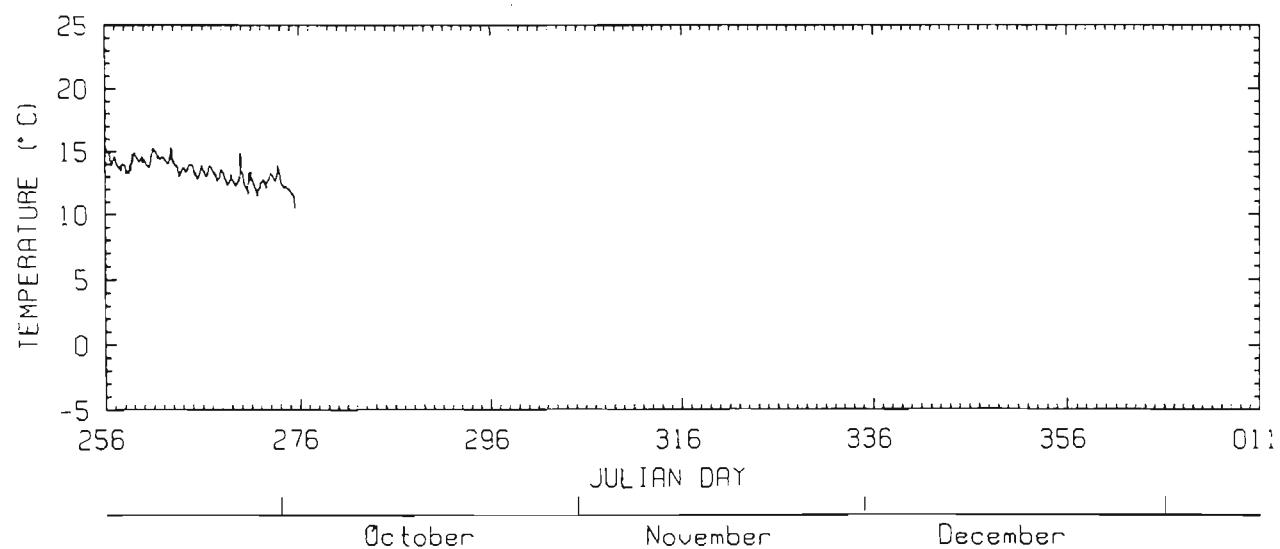
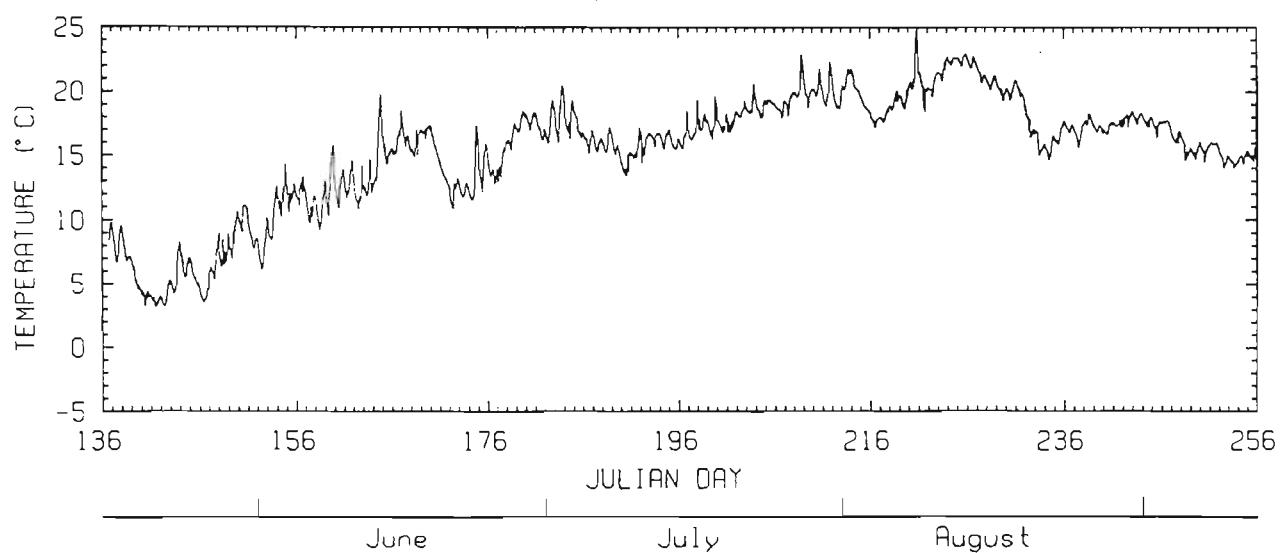
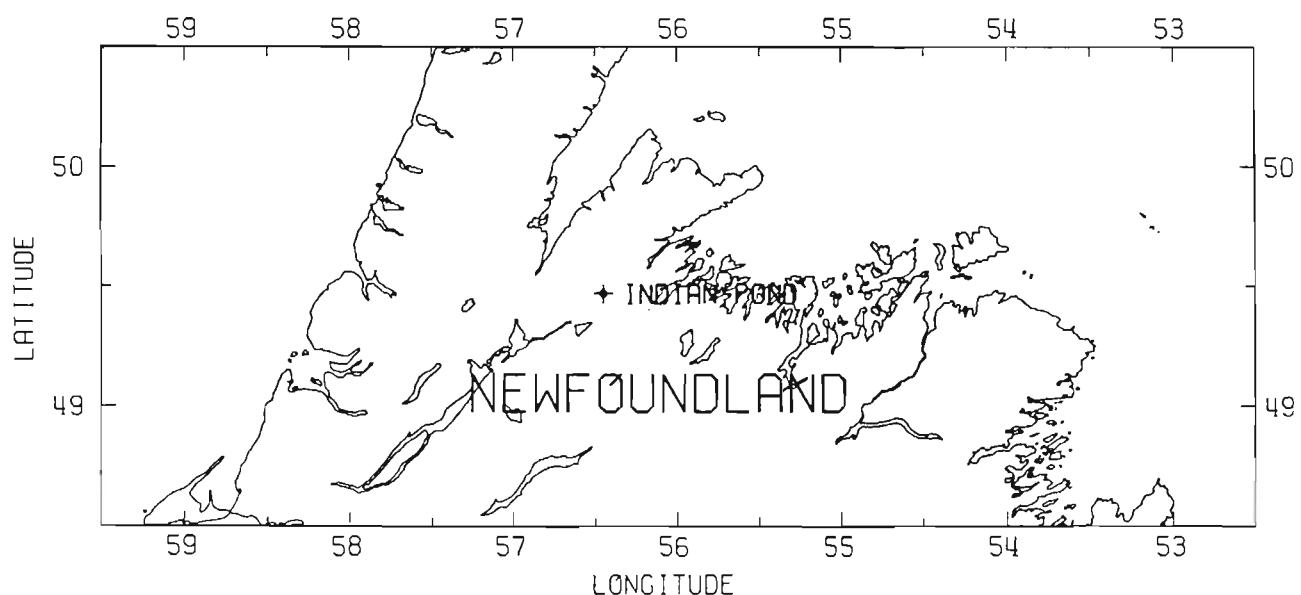
THERMOGRAPH DATA SUMMARY

STATION NAME: INDIAN POND
STATION NUMBER: 140
INSTRUMENT TYPE: Ryan TempMentor
INSTRUMENT S/N: 900654
LATITUDE: 49.47° N
LONGITUDE: 56.45° W
INSTRUMENT DEPTH: 2 m
WATER DEPTH: 8 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 16-MAY-1990 18:21 GMT
RECOVERY DATE/TIME: 2-OCT-1990 12:21 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1990	3.20	140	11.10	150	6.46	2.14	105.6	41.9	366
JUN-1990	6.10	152	19.80	164	13.74	2.67	412.1	292.1	720
JUL-1990	13.40	190	22.90	208	17.60	1.75	545.7	421.7	744
AUG-1990	14.70	234	24.80	220	19.12	2.08	592.6	468.6	744
SEP-1990	11.40	271	18.30	244	14.48	1.50	434.5	314.5	720
OCT-1990	10.40	275	13.10	274	12.00	0.46	23.8	15.8	37
Total Period	3.20	140	24.80	220	15.14	4.24	2114.2	1554.6	3331

396



Start: 16-MAY-1990

End: 2-OCT-1990

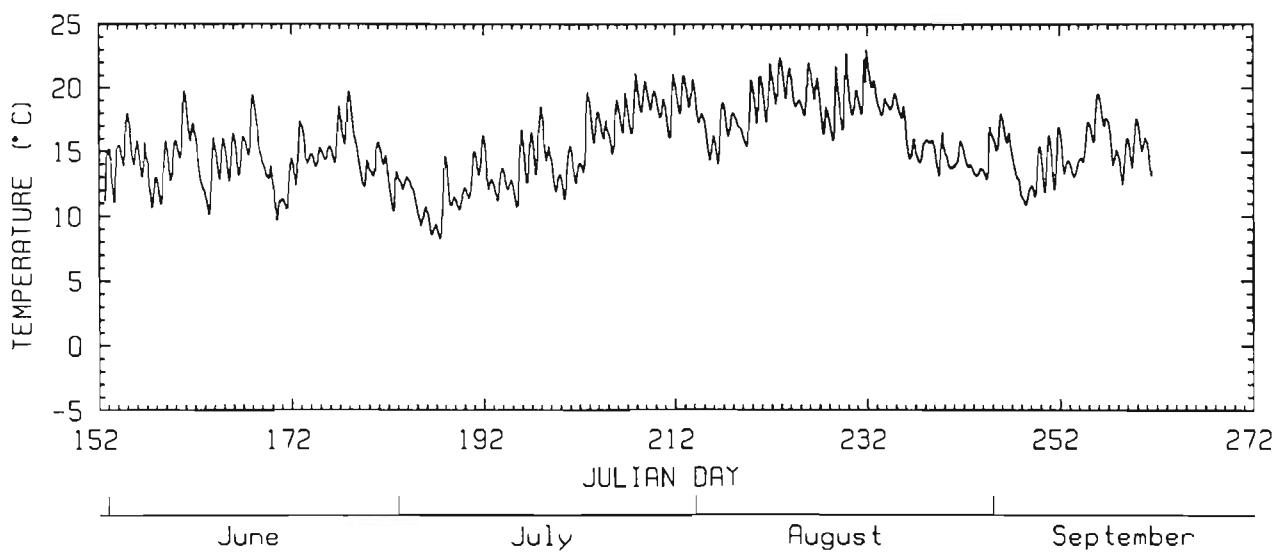
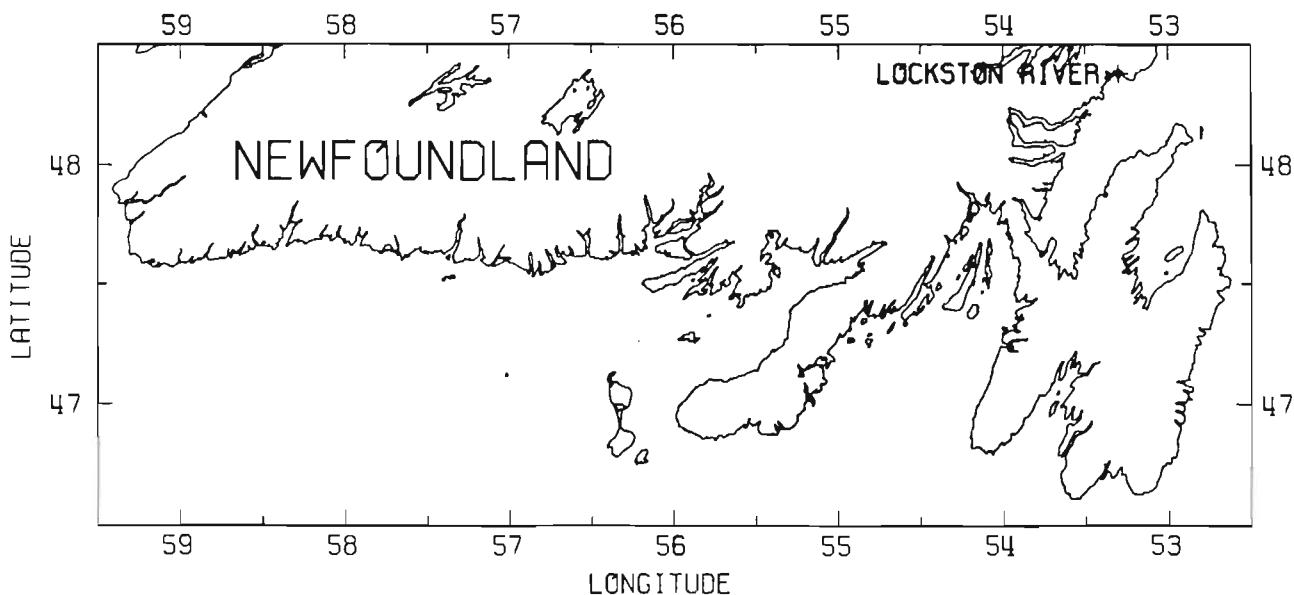
THERMOGRAPH DATA SUMMARY

STATION NAME: LOCKSTON RIVER
STATION NUMBER: 153
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5471
LATITUDE: 48.38° N
LONGITUDE: 53.30° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 31-MAY-1992 16:00 GMT
RECOVERY DATE/TIME: 17-SEP-1992 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1992	11.20	152	15.10	152	13.88	1.36	13.9	9.9	8
JUN-1992	9.60	170	19.70	160	14.41	2.04	432.2	312.2	720
JUL-1992	8.20	187	21.10	207	14.74	3.24	457.0	333.0	744
AUG-1992	12.80	244	23.00	231	17.47	2.44	541.4	417.4	744
SEP-1992	10.90	248	19.50	255	14.85	1.91	252.3	184.3	399
Total									
Period	8.20	187	23.00	231	15.44	2.84	1696.8	1256.8	2615

398



Start: 31-MAY-1992

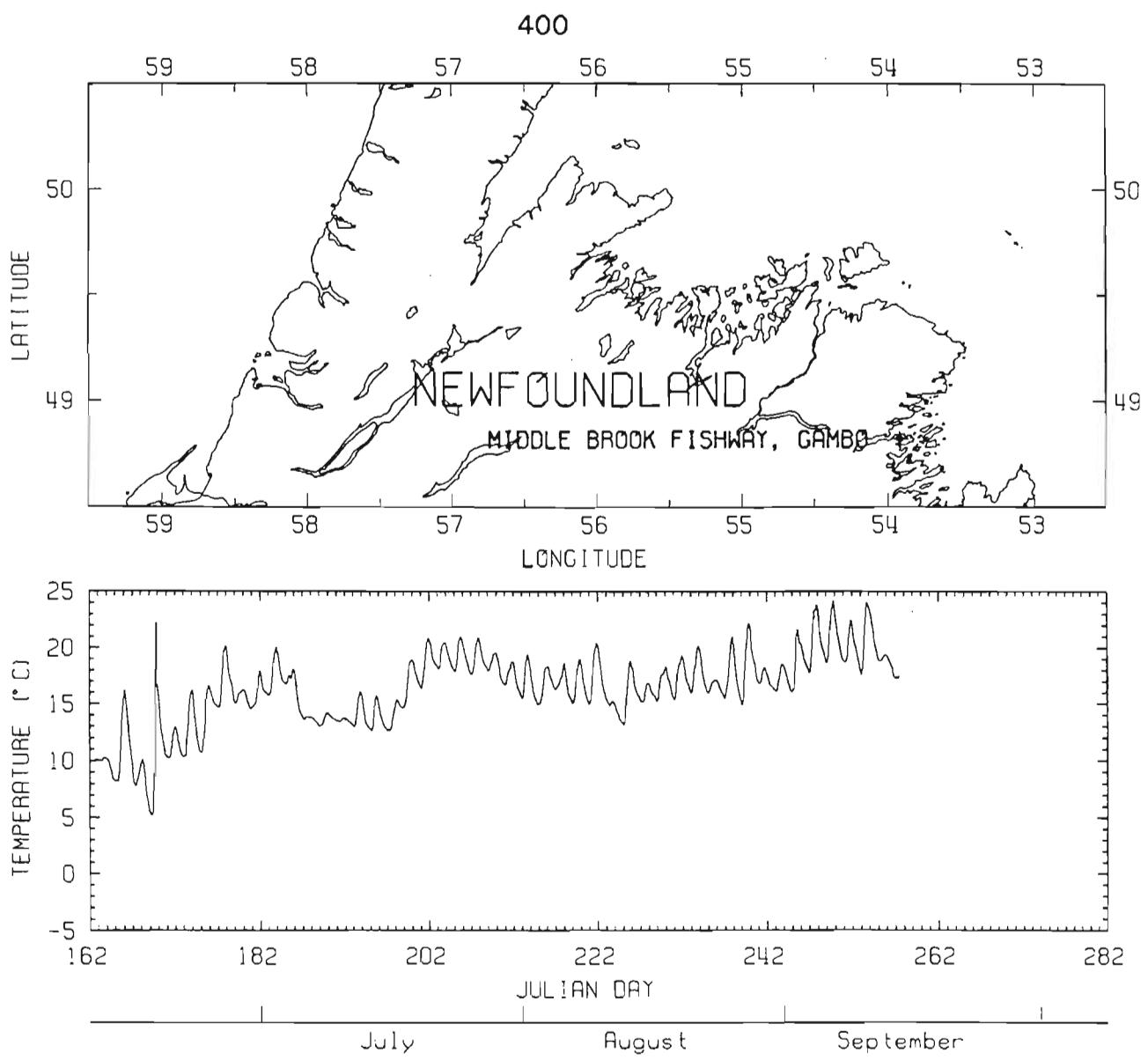
End: 17-SEP-1992

THERMOGRAPH DATA SUMMARY

STATION NAME: MIDDLE BROOK
STATION NUMBER: 124
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 64263
LATITUDE: 48.82° N
LONGITUDE: 53.92° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 11-JUN-1990 18:30 GMT
RECOVERY DATE/TIME: 14-SEP-1990 12:55 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-1990	5.24	169	22.21	169	12.83	3.52	254.5	174.5	238
JUL-1990	12.59	195	21.01	205	16.46	2.47	510.4	386.4	370
AUG-1990	13.13	225	22.23	239	17.01	1.64	527.1	403.1	372
SEP-1990	16.05	244	24.21	249	19.86	2.05	277.0	221.0	164
Total Period	5.24	169	24.21	249	16.37	3.24	1569.1	1185.1	1144



Start: 11-JUN-1990

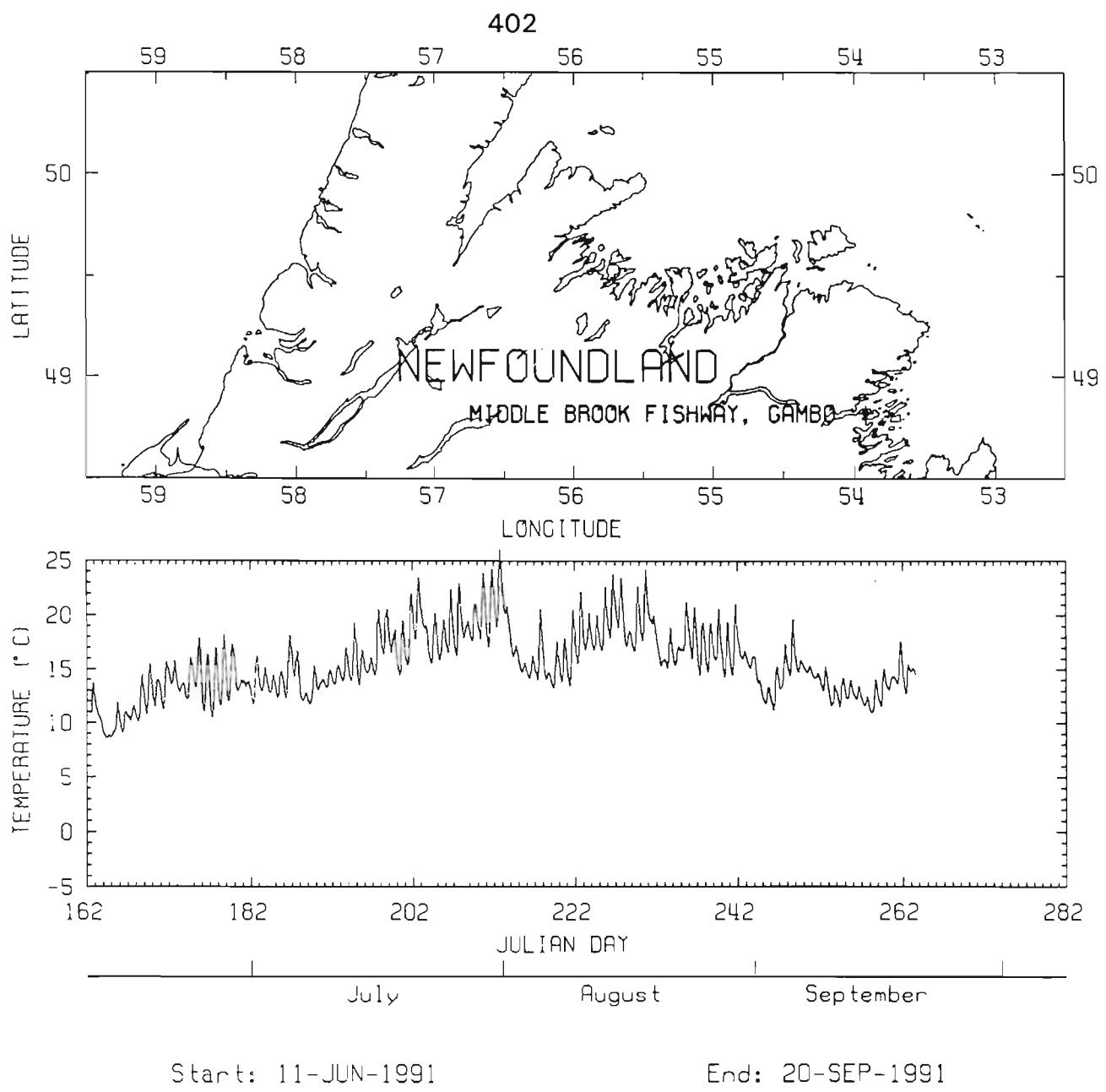
End: 14-SEP-1990

THERMOGRAPH DATA SUMMARY

STATION NAME: MIDDLE BROOK FISHWAY, GAMBO
STATION NUMBER: 124
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 6643
LATITUDE: 48.82° N
LONGITUDE: 53.92° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 11-JUN-1991 15:00 GMT
RECOVERY DATE/TIME: 20-SEP-1991 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1991	8.60	164	18.20	178	12.74	2.22	254.8	174.8	465
JUL-1991	11.70	182	26.00	212	16.63	3.00	515.6	391.6	744
AUG-1991	13.20	219	24.20	230	17.50	2.31	542.6	418.6	744
SEP-1991	11.00	258	19.60	248	13.78	1.53	276.0	196.0	470
Total Period	8.60	164	26.00	212	15.60	3.07	1589.1	1181.1	2423



Start: 11-JUN-1991

End: 20-SEP-1991

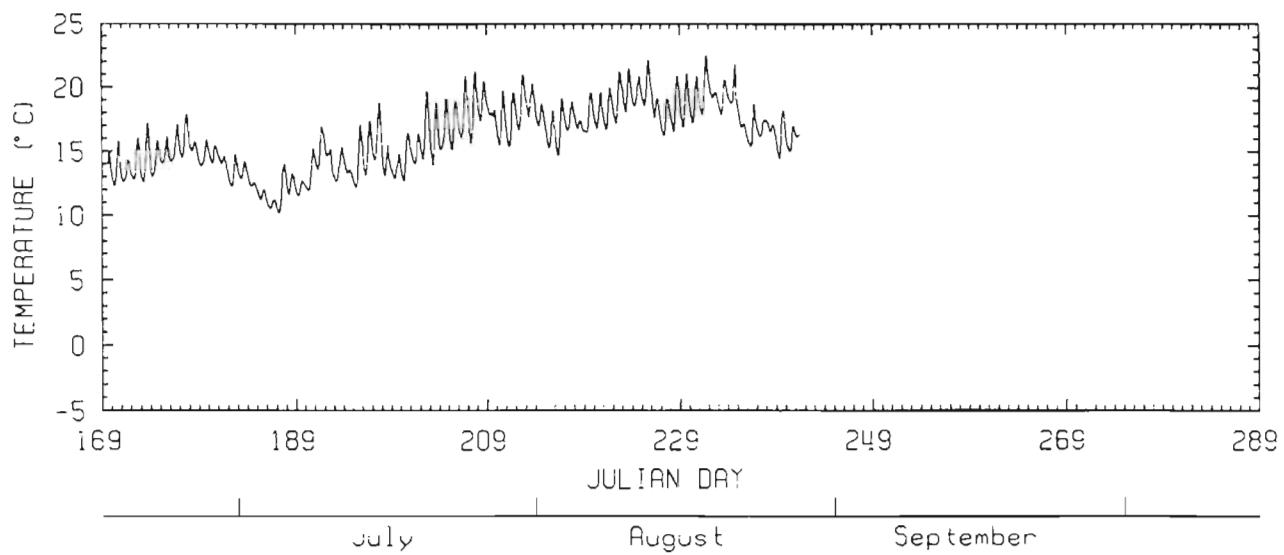
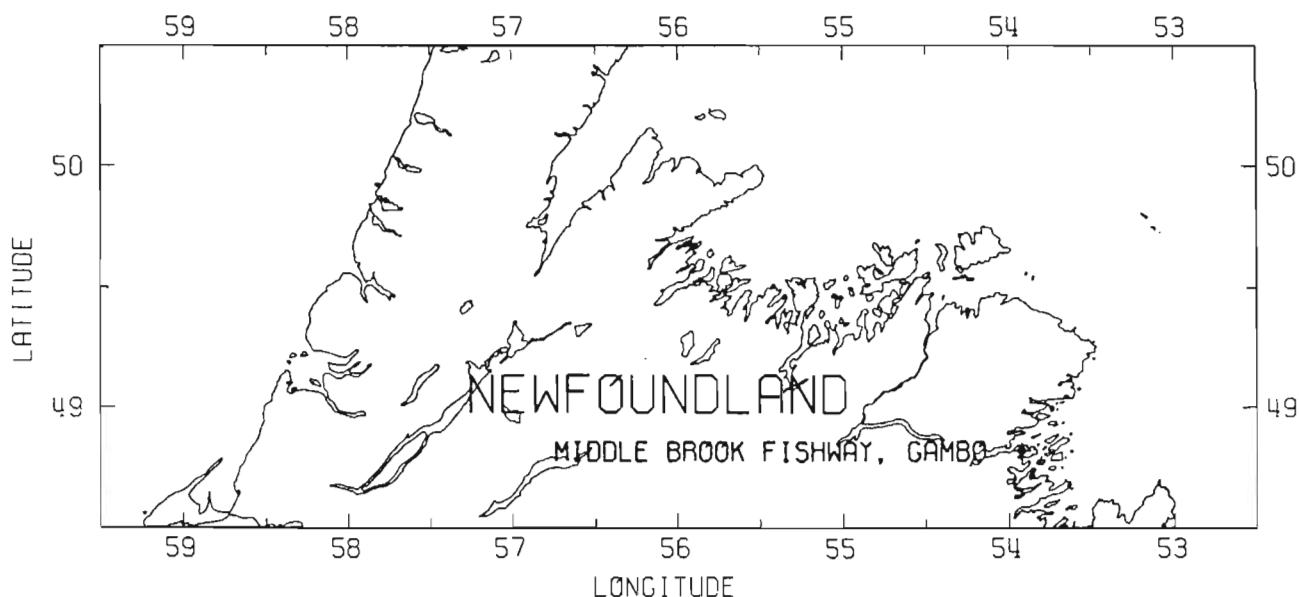
THERMOGRAPH DATA SUMMARY

STATION NAME: MIDDLE BROOK FISHWAY, GAMBO
STATION NUMBER: 124
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 6594
LATITUDE: 48.82° N
LONGITUDE: 53.92° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 17-JUN-1992 16:00 GMT
RECOVERY DATE/TIME: 28-AUG-1992 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1992	12.30	170	17.90	177	14.46	1.21	202.4	146.4	320
JUL-1992	10.20	187	21.30	207	15.16	2.62	470.0	346.0	744
AUG-1992	14.40	239	22.50	231	18.07	1.62	505.1	393.1	661
Total Period	10.20	187	22.50	231	16.14	2.57	1177.5	885.5	1725

404



Start: 17-JUN-1992

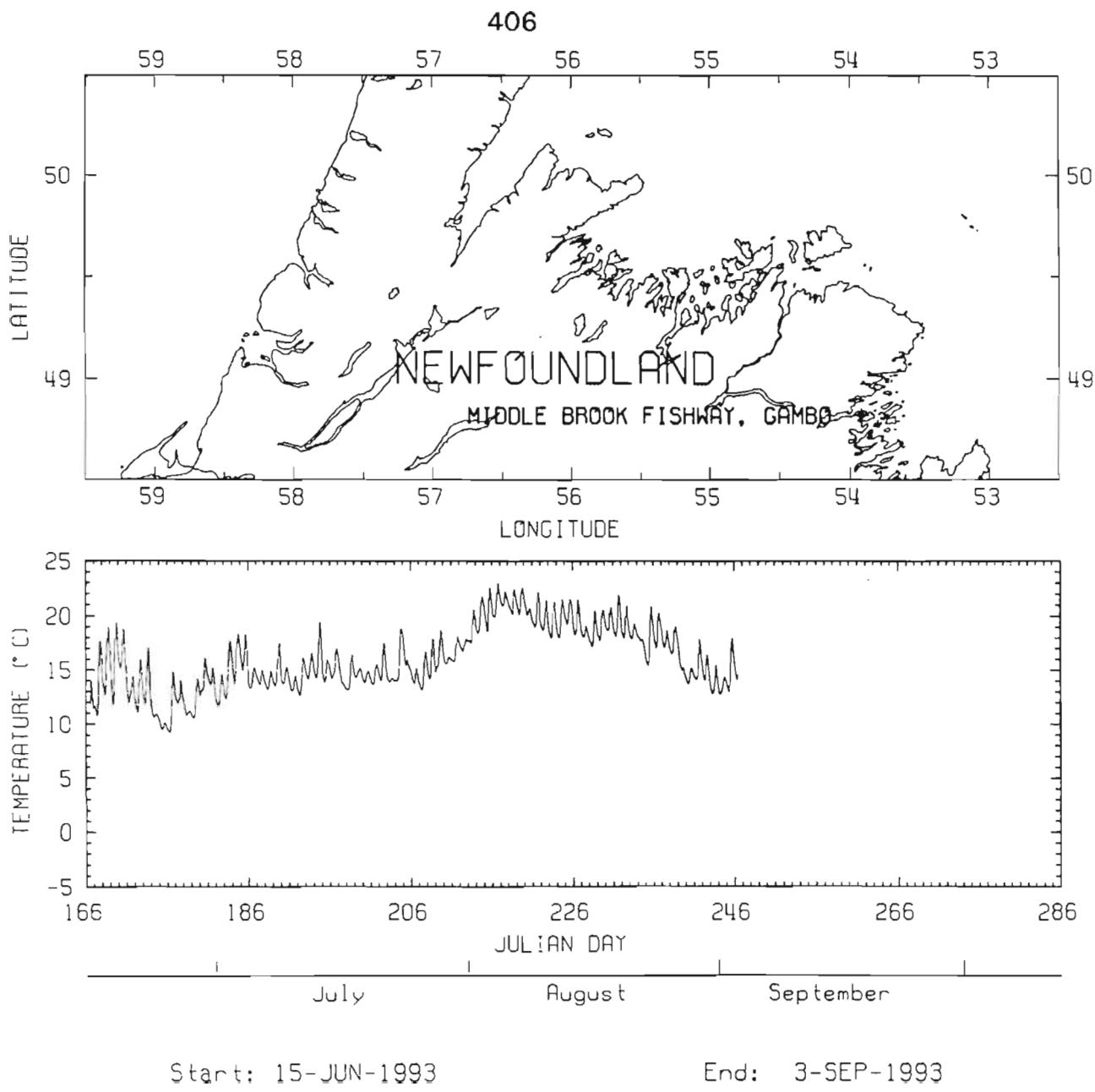
End: 28-AUG-1992

THERMOGRAPH DATA SUMMARY

STATION NAME: MIDDLE BROOK FISHWAY, GAMBO
STATION NUMBER: 124
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 6596
LATITUDE: 48.82° N
LONGITUDE: 53.92° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 15-JUN-1993 14:00 GMT
RECOVERY DATE/TIME: 3-SEP-1993 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1993	9.20	176	19.50	169	13.18	2.37	210.6	146.6	370
JUL-1993	11.70	182	19.50	194	15.03	1.48	466.1	342.1	744
AUG-1993	12.80	243	23.00	216	18.73	2.23	580.7	456.7	744
SEP-1993	12.70	244	18.00	245	14.39	1.44	43.4	31.4	61
Total Period	9.20	176	23.00	216	16.09	2.97	1300.7	976.7	1919



Start: 15-JUN-1993

End: 3-SEP-1993

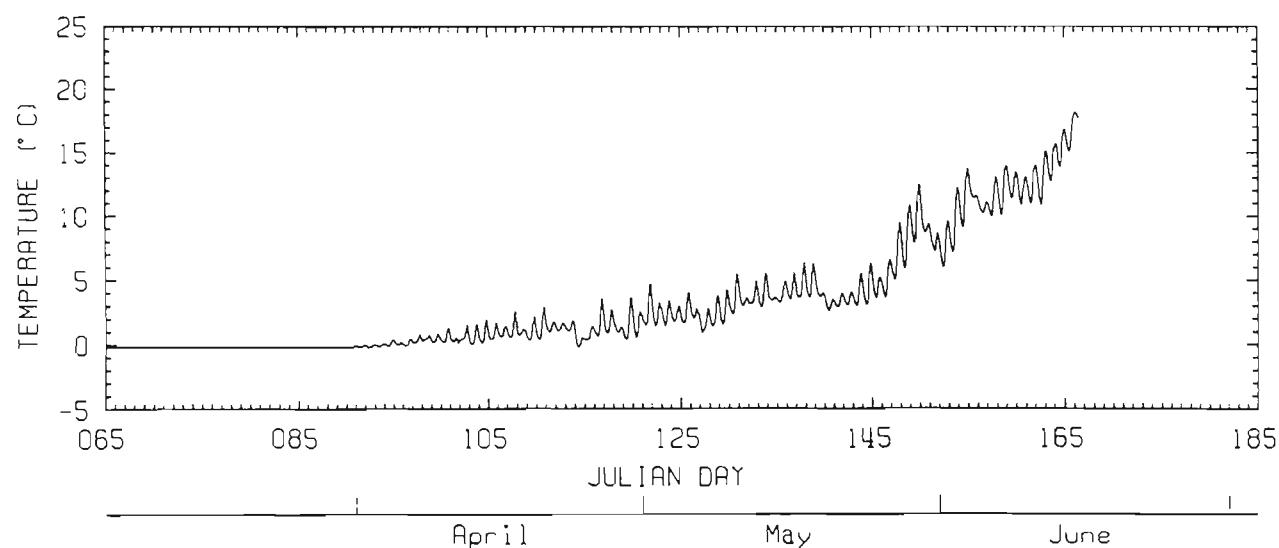
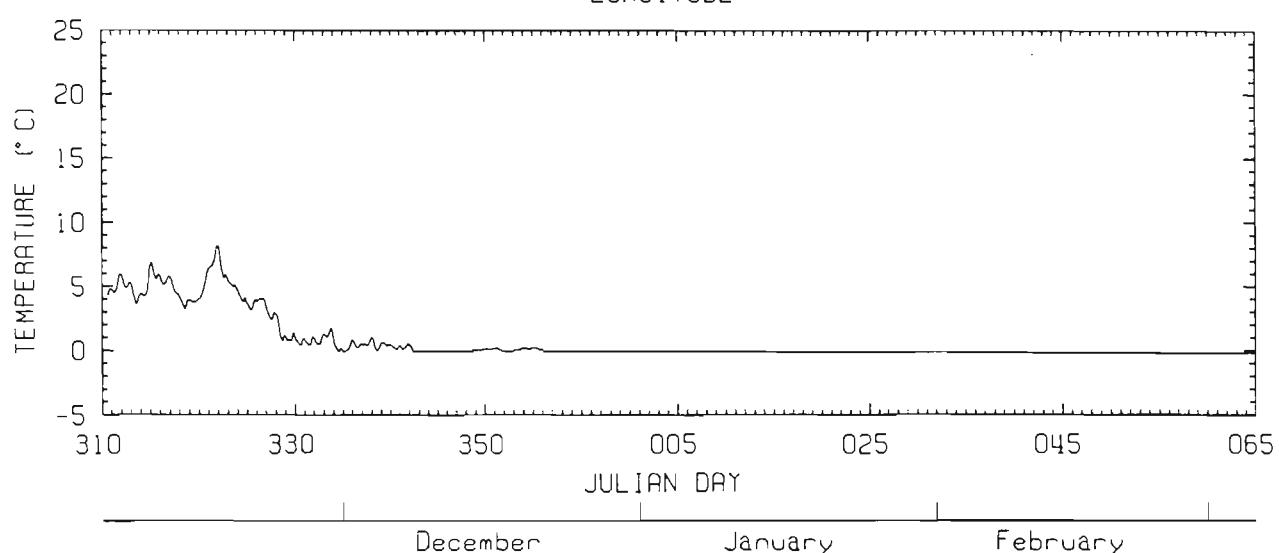
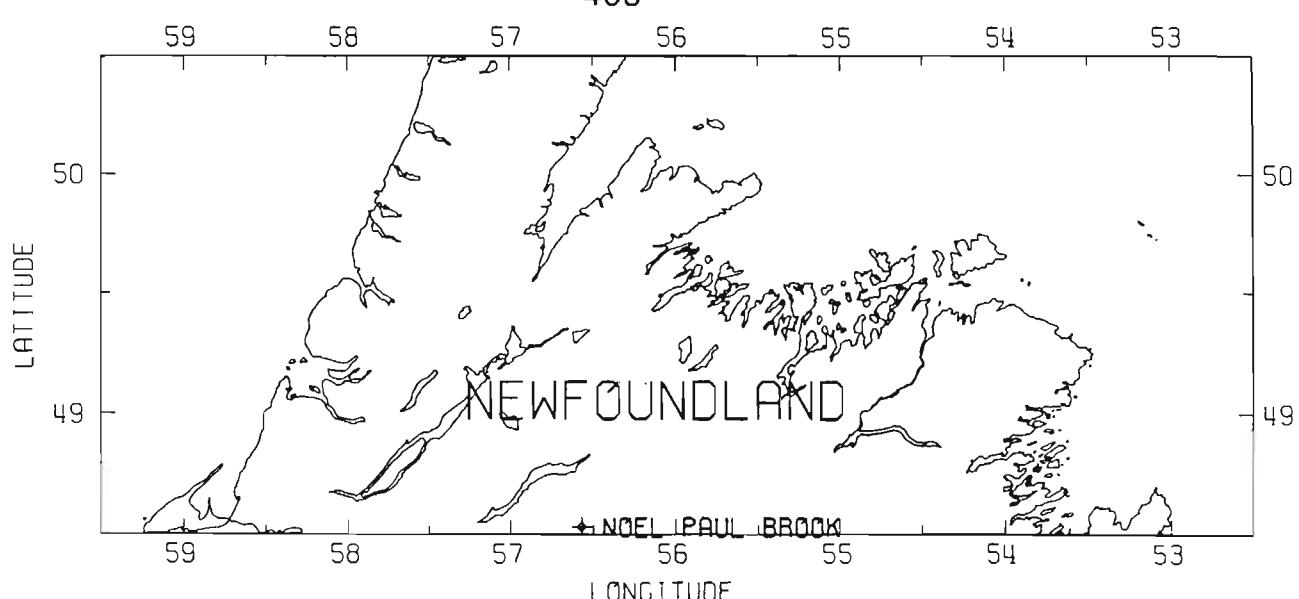
THERMOGRAPH DATA SUMMARY

STATION NAME: NOEL PAUL BROOK
STATION NUMBER: 185
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 4334
LATITUDE: 48.53° N
LONGITUDE: 56.57° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 6-NOV-1989 15:00 GMT
RECOVERY DATE/TIME: 15-JUN-1990 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
NOV-1989	-0.05	334	8.15	321	3.65	2.02	91.8	15.8	585
DEC-1989	-0.15	335	1.05	338	0.08	0.23	3.6	0.0	744
JAN-1990	-0.15	2	0.00	31	-0.11	0.03	0.0	0.0	744
FEB-1990	-0.20	34	0.00	32	-0.16	0.03	0.0	0.0	672
MAR-1990	-0.20	60	-0.10	89	-0.18	0.02	0.0	0.0	744
APR-1990	-0.20	91	3.65	119	0.79	0.76	24.1	0.0	720
MAY-1990	0.95	127	12.50	149	4.23	2.25	131.0	25.7	744
JUN-1990	5.95	152	18.15	166	12.23	2.62	186.0	126.0	349
Total Period	-0.20	34	18.15	166	1.86	3.49	436.6	167.5	5302

408



Start: 6-NOV-1989

End: 15-JUN-1990

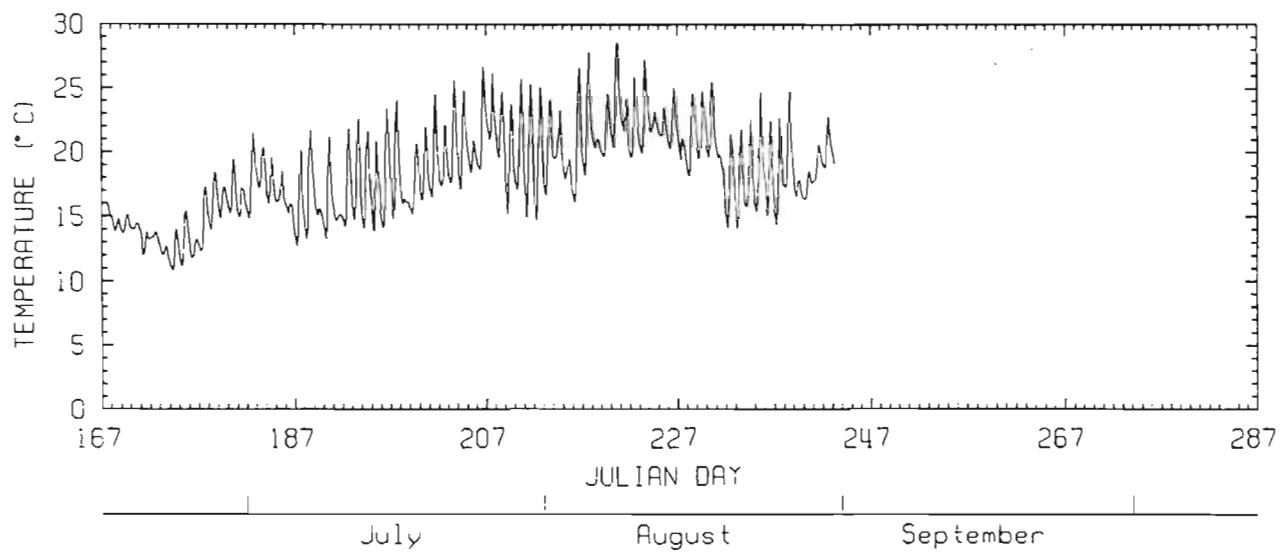
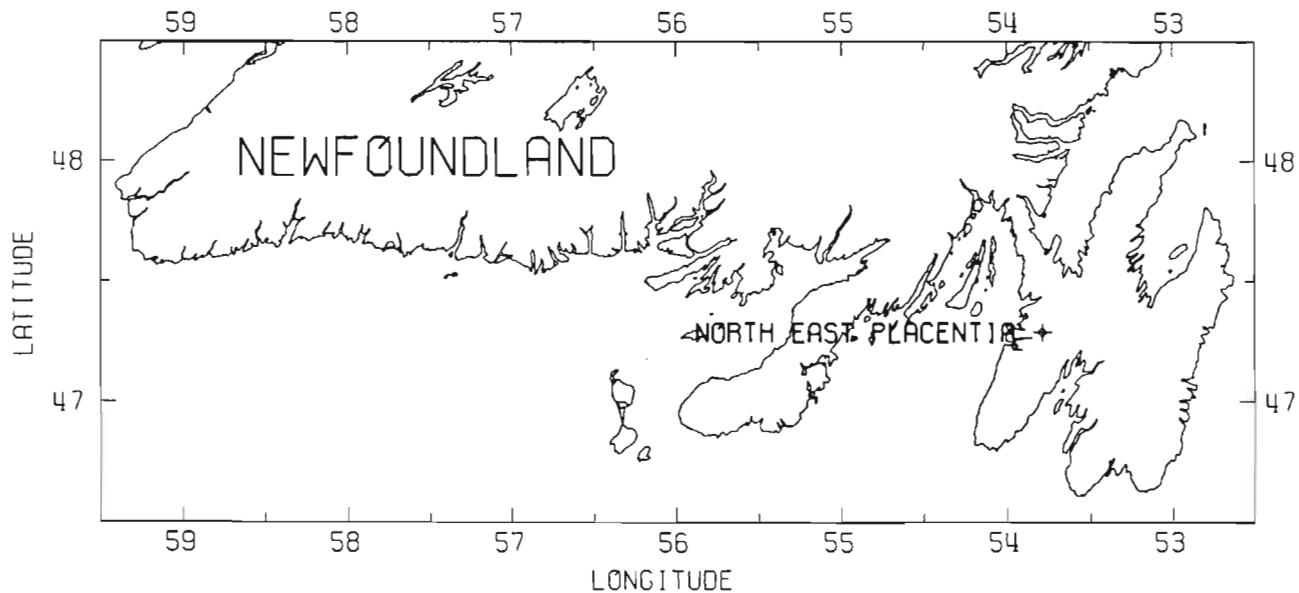
THERMOGRAPH DATA SUMMARY

STATION NAME: NORTHEAST PLACENTIA
STATION NUMBER: 108
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 62882
LATITUDE: 47.29° N
LONGITUDE: 53.79° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 16-JUN-1990 15:30 GMT
RECOVERY DATE/TIME: 31-AUG-1990 06:15 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1990	10.80	174	19.48	180	14.18	1.80	214.7	154.7	193
JUL-1990	12.73	187	26.73	206	18.76	3.03	578.2	454.2	468
AUG-1990	14.00	233	28.60	220	20.72	2.94	638.1	514.1	397
Total Period	10.80	174	28.60	220	18.66	3.63	1431.0	1123.0	1058

410



Start: 16-JUN-1990

End: 31-AUG-1990

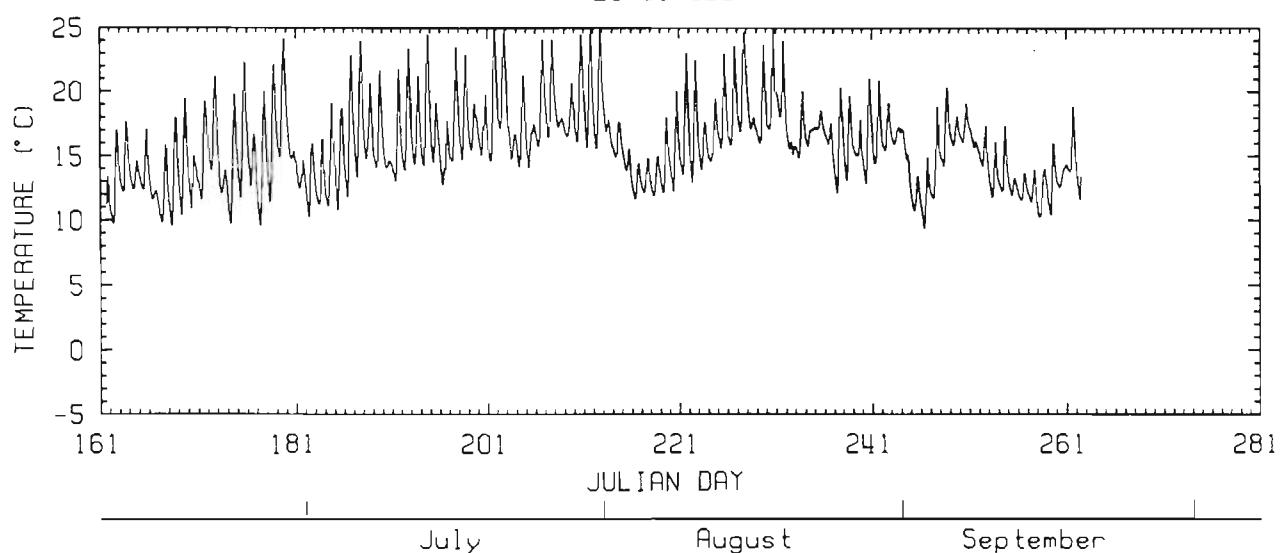
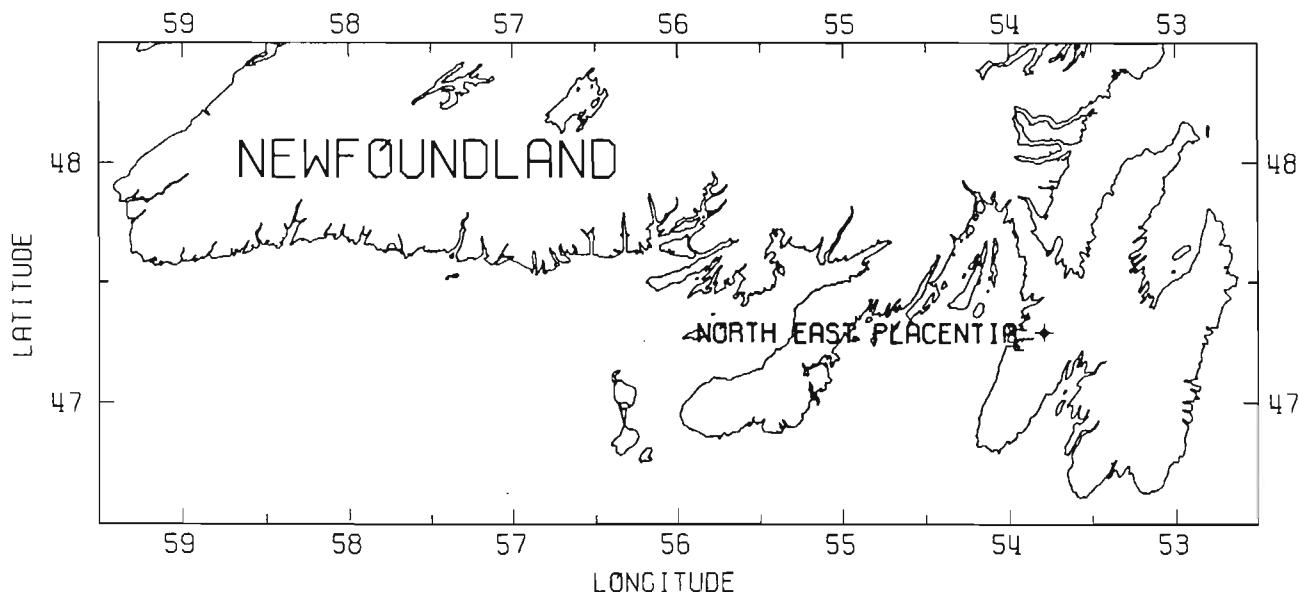
THERMOGRAPH DATA SUMMARY

STATION NAME: NORTH EAST PLACENTIA
STATION NUMBER: 108
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 6641
LATITUDE: 47.29° N
LONGITUDE: 53.79° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 10-JUN-1991 16:00 GMT
RECOVERY DATE/TIME: 19-SEP-1991 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1991	9.50	168	24.30	179	14.39	2.99	300.7	216.7	488
JUL-1991	10.20	182	25.20	212	17.12	3.18	530.6	406.6	744
AUG-1991	11.60	216	24.90	230	16.61	2.63	514.8	390.8	744
SEP-1991	9.30	246	20.40	248	14.07	2.27	266.9	190.9	446
Total Period	9.30	246	25.20	212	15.85	3.11	1613.0	1205.0	2422

412



Start: 10-JUN-1991

End: 19-SEP-1991

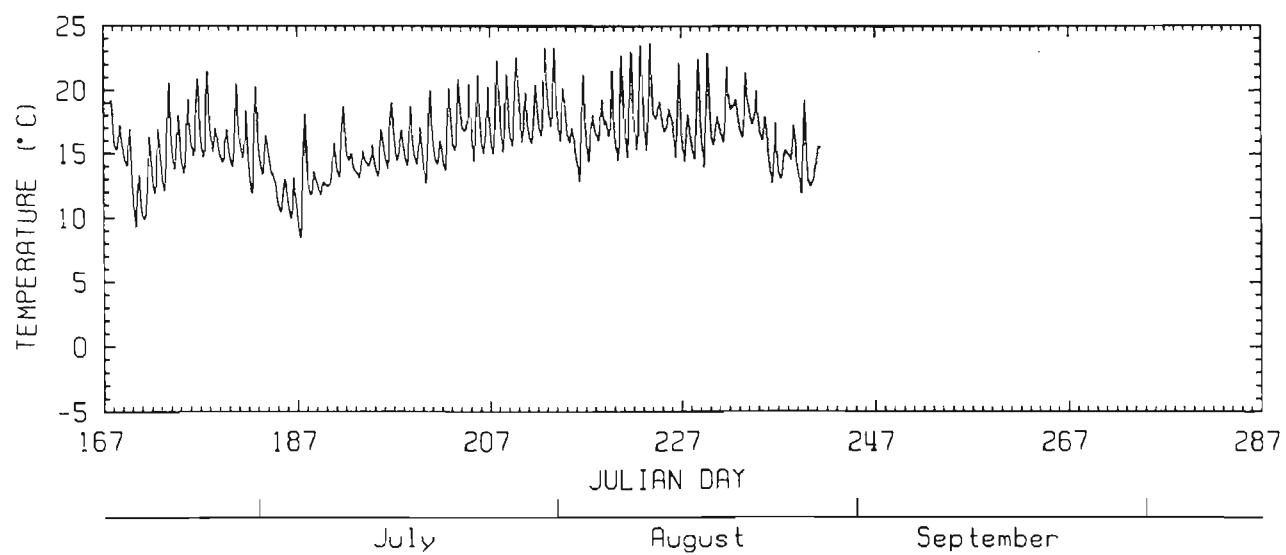
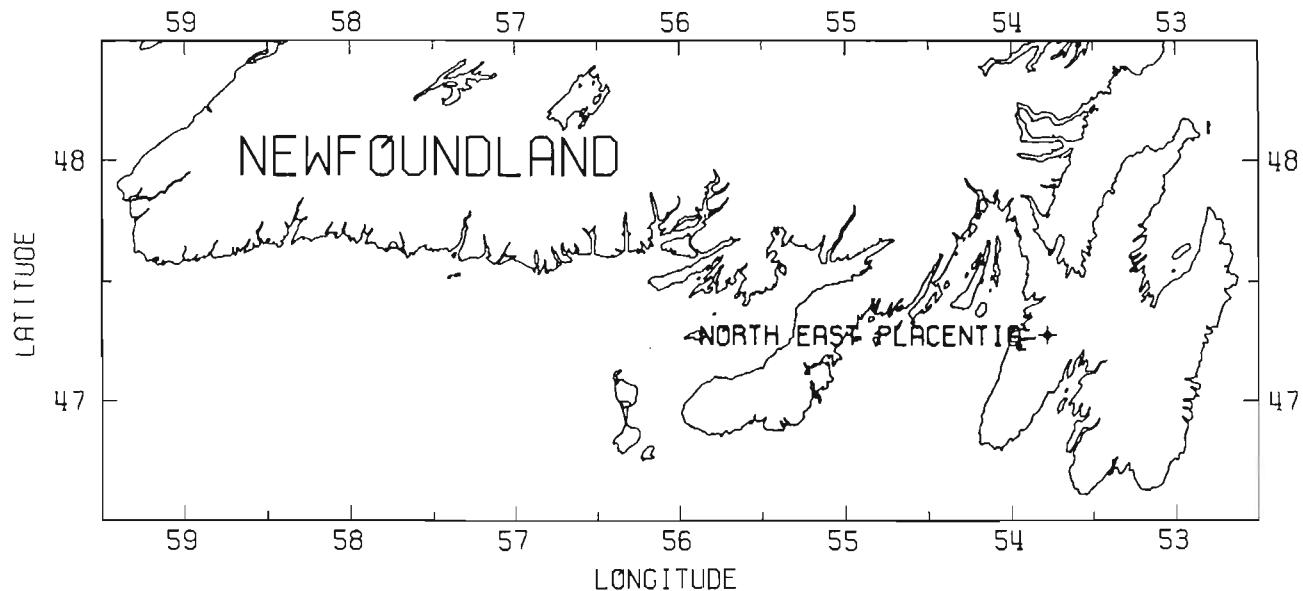
THERMOGRAPH DATA SUMMARY

STATION NAME: NORTH EAST PLACENTIA
STATION NUMBER: 108
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 6595
LATITUDE: 47.28° N
LONGITUDE: 53.78° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 15-JUN-1992 17:00 GMT
RECOVERY DATE/TIME: 28-AUG-1992 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1992	9.20	170	21.50	177	15.35	2.50	248.1	184.1	367
JUL-1992	8.40	187	23.30	212	15.63	2.80	484.7	360.7	744
AUG-1992	11.90	239	23.70	223	17.05	2.34	476.6	364.6	660
Total Period	8.40	187	23.70	223	16.10	2.68	1209.3	909.3	1771

414



Start: 15-JUN-1992

End: 28-AUG-1992

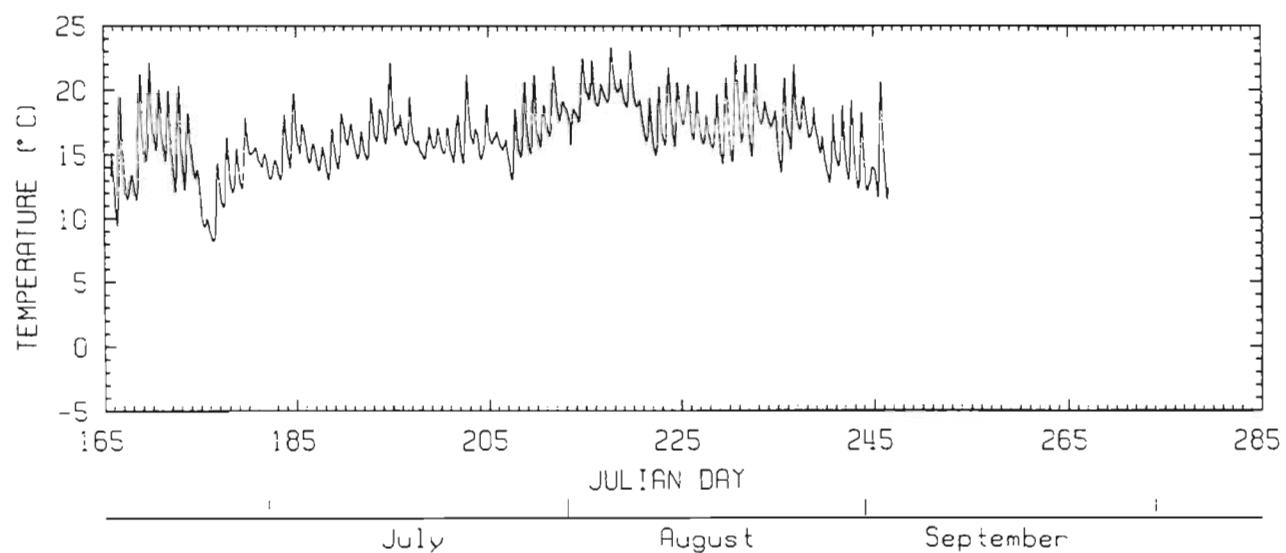
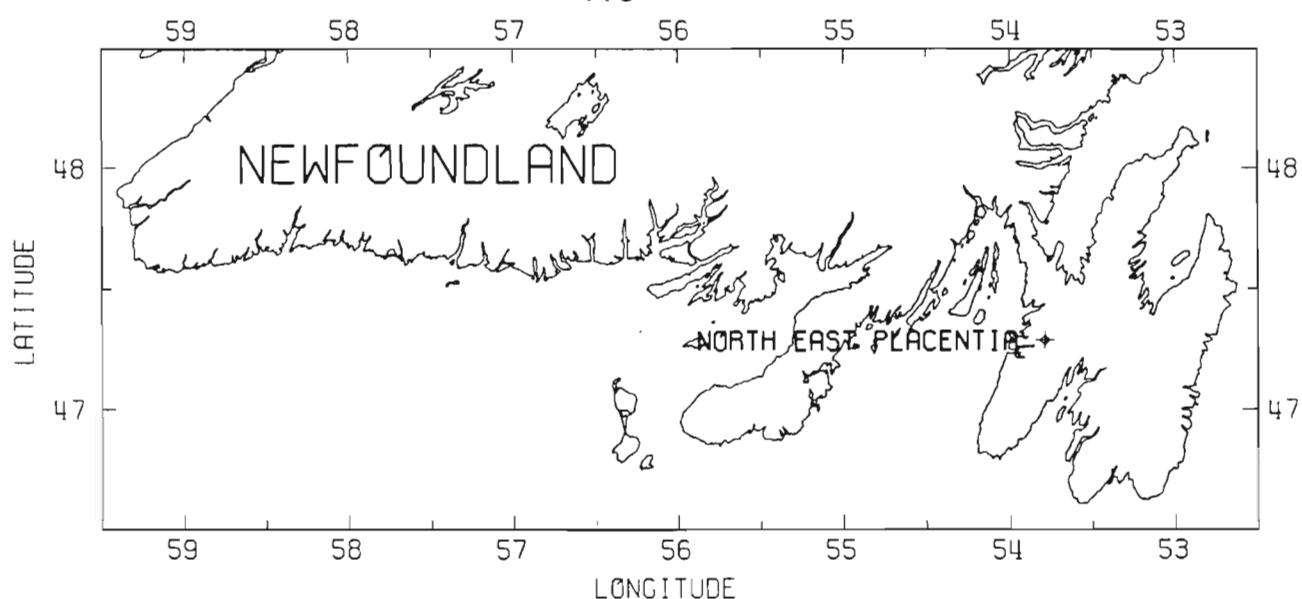
THERMOGRAPH DATA SUMMARY

STATION NAME: NORTH EAST PLACENTIA
STATION NUMBER: 108
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 4323
LATITUDE: 47.29° N
LONGITUDE: 53.79° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 14-JUN-1993 16:00 GMT
RECOVERY DATE/TIME: 3-SEP-1993 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1993	8.20	176	22.10	169	14.26	2.88	242.4	174.4	392
JUL-1993	13.00	183	22.10	194	16.30	1.74	505.2	381.2	744
AUG-1993	12.30	243	23.30	217	17.80	2.21	551.8	427.8	744
SEP-1993	11.40	246	20.70	245	14.01	2.34	41.7	29.7	61
Total Period	8.20	176	23.30	217	16.39	2.60	1341.0	1013.0	1941

416



Start: 14-JUN-1993

End: 3-SEP-1993

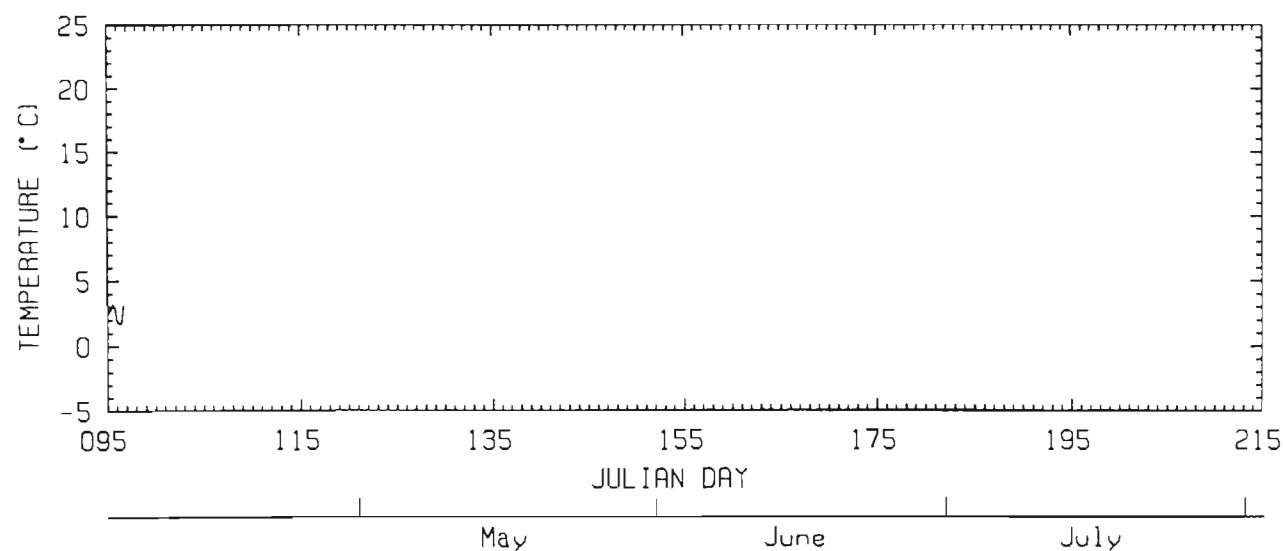
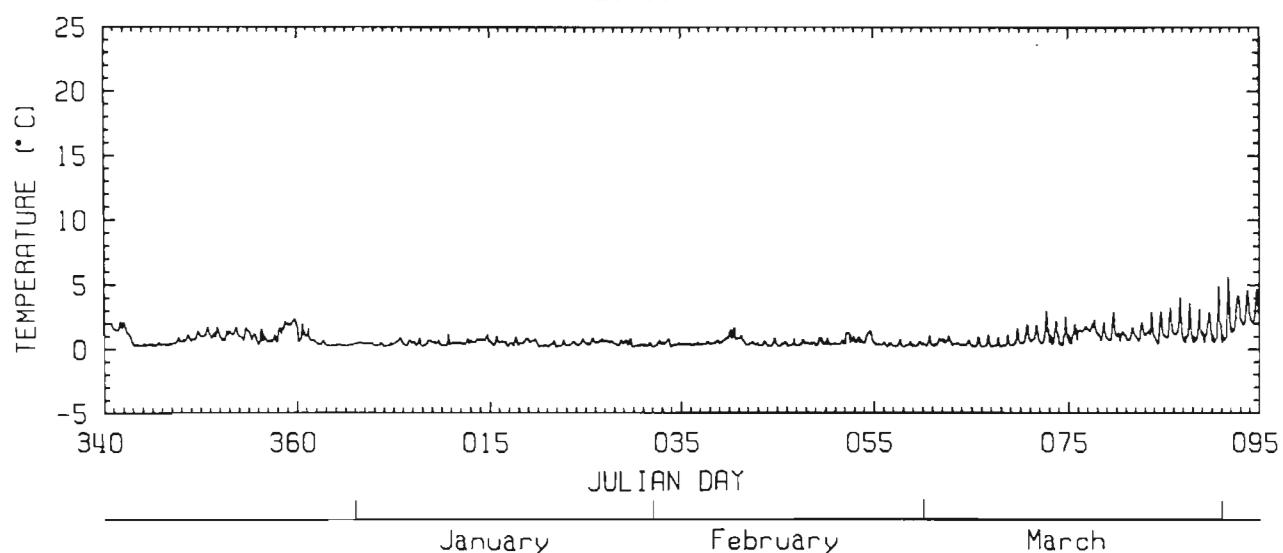
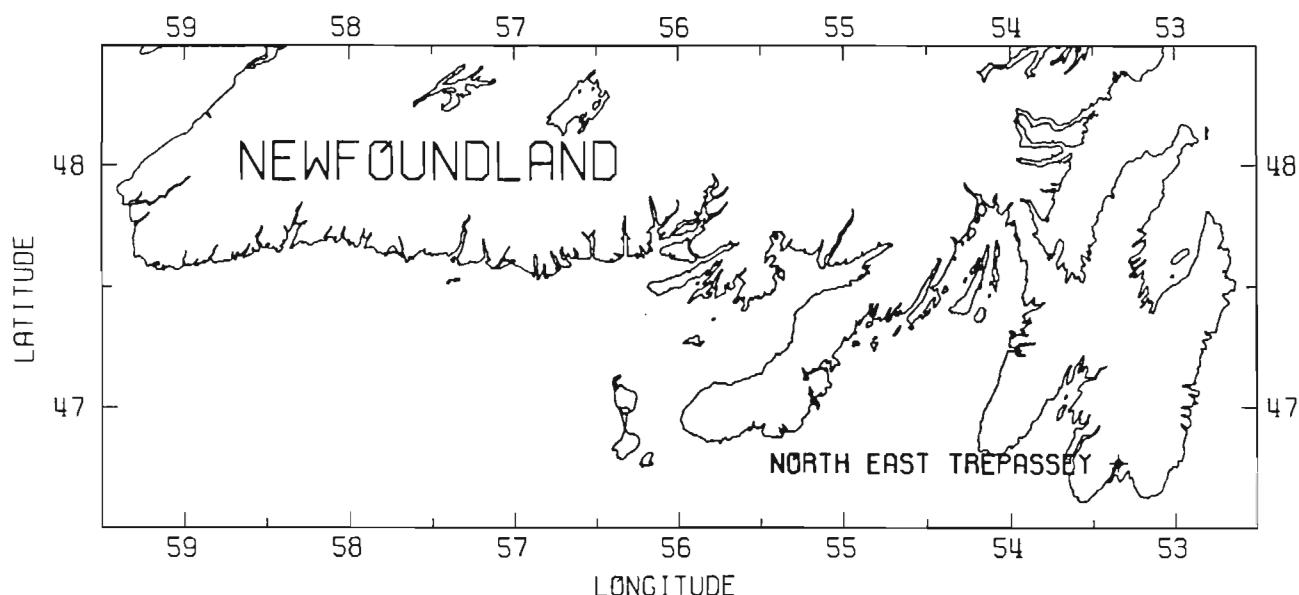
THERMOGRAPH DATA SUMMARY

STATION NAME: NORTH EAST TREPASSEY
STATION NUMBER: 130
INSTRUMENT TYPE: Seamon UTR-A (Hugrun)
INSTRUMENT S/N: 3214
LATITUDE: 46.77° N
LONGITUDE: 53.35° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 6-DEC-1989 19:00 GMT
RECOVERY DATE/TIME: 12-APR-1990 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
DEC-1989	0.30	343	2.40	359	0.90	0.54	24.2	0.0	605
JAN-1990	0.20	4	1.20	10	0.50	0.18	15.5	0.0	744
FEB-1990	0.20	32	1.60	40	0.49	0.26	13.7	0.0	672
MAR-1990	0.20	60	4.90	90	1.04	0.73	32.4	0.0	744
APR-1990	0.50	91	5.60	91	2.73	0.87	32.8	0.0	281
Total Period	0.20	4	5.60	91	0.92	0.82	118.6	0.0	3046

418



Start: 6-DEC-1989

End: 6-APR-1990

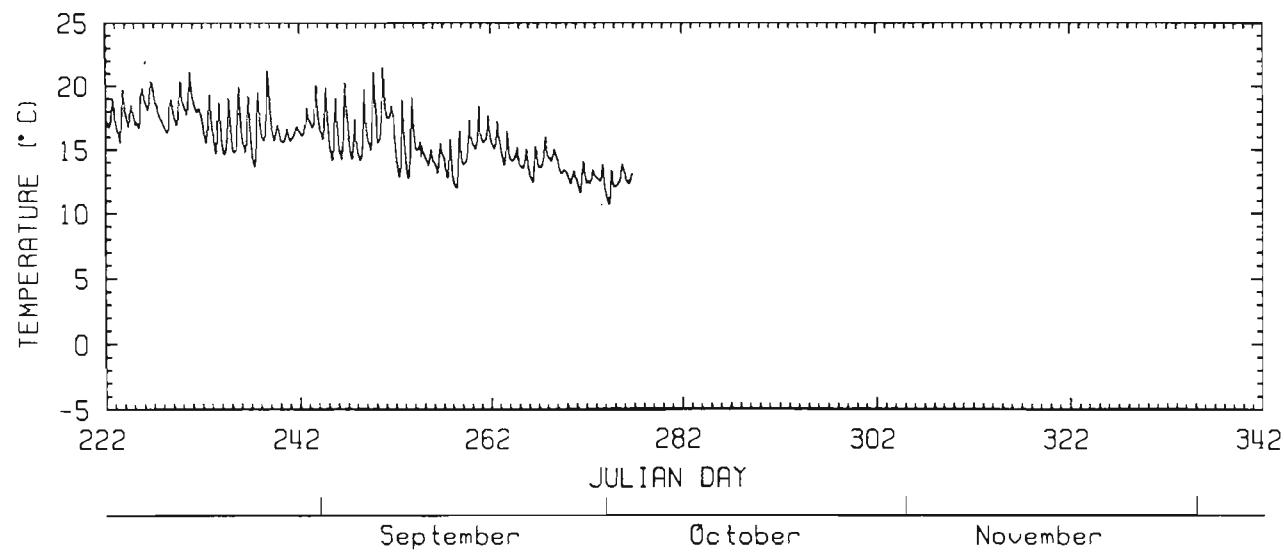
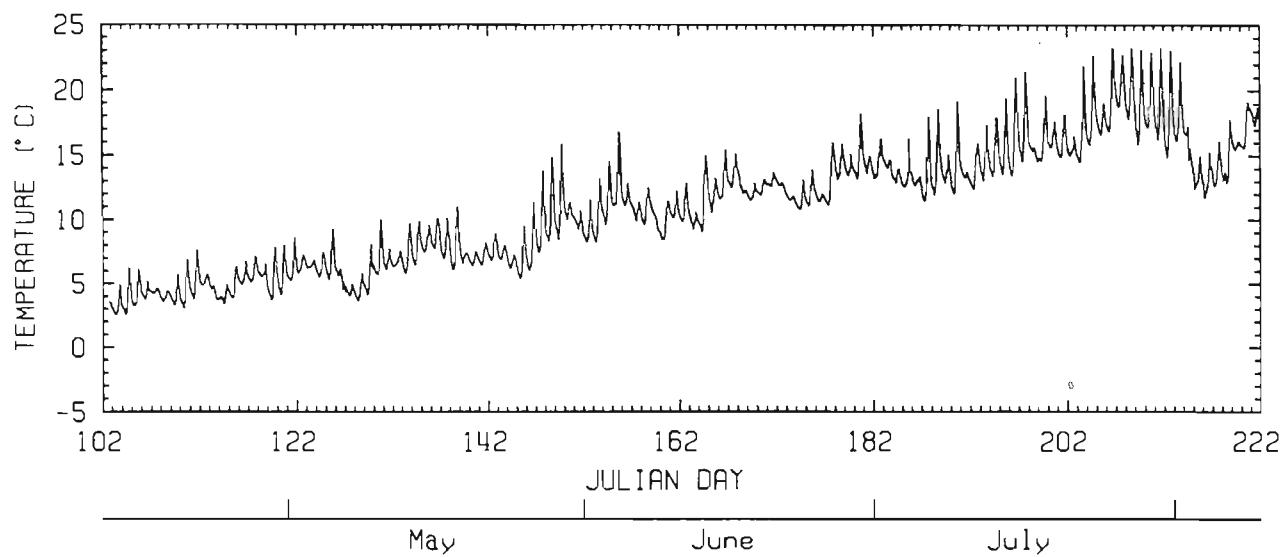
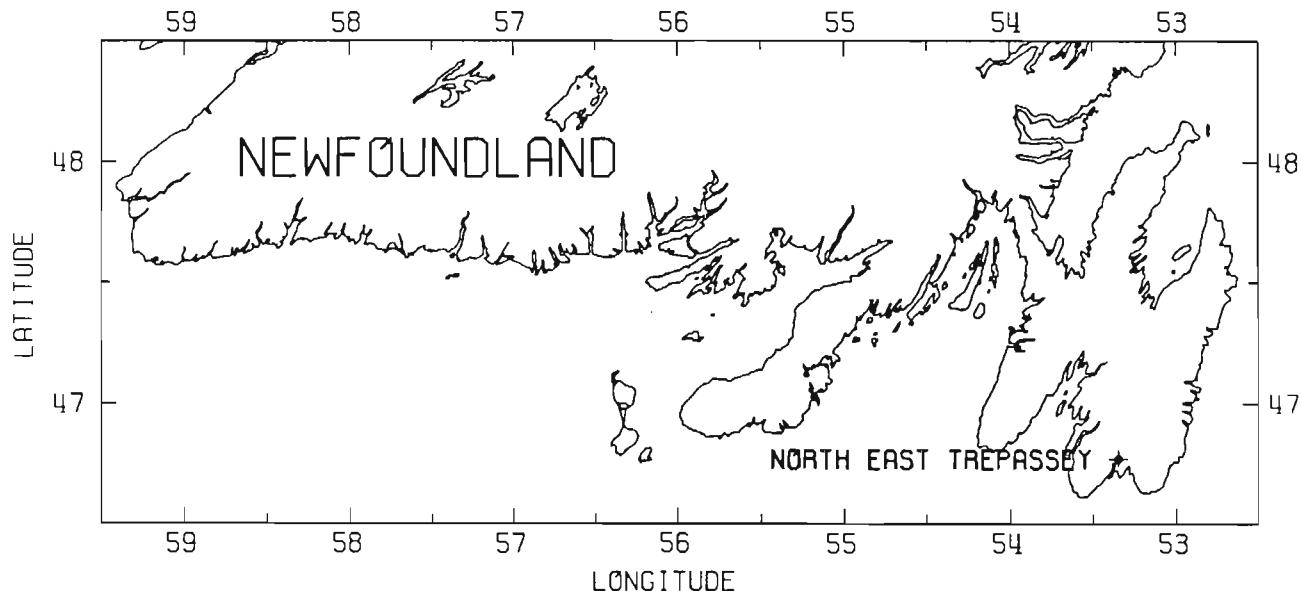
THERMOGRAPH DATA SUMMARY

STATION NAME: NORTH EAST TREPASSEY
STATION NUMBER: 130
INSTRUMENT TYPE: Seamon UTR-A (Hugrun)
INSTRUMENT S/N: 4361
LATITUDE: 46.77° N
LONGITUDE: 53.35° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 12-APR-1990 17:00 GMT
RECOVERY DATE/TIME: 3-OCT-1990 20:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
APR-1990	2.50	103	8.10	120	4.68	1.15	88.0	13.4	439
MAY-1990	3.60	128	15.80	149	7.47	2.01	231.5	107.5	744
JUN-1990	8.20	152	18.20	180	11.96	1.79	358.9	238.9	720
JUL-1990	11.50	187	23.20	206	16.03	2.69	496.9	372.9	744
AUG-1990	11.70	216	22.20	213	16.75	1.89	519.2	395.2	744
SEP-1990	11.60	271	21.40	250	14.93	1.86	447.9	327.9	720
OCT-1990	10.70	274	13.80	275	12.38	0.78	37.2	25.2	69
Total Period	2.50	103	23.20	206	12.49	4.62	2179.5	1480.9	4180

420



Start: 12-APR-1990

End: 3-OCT-1990

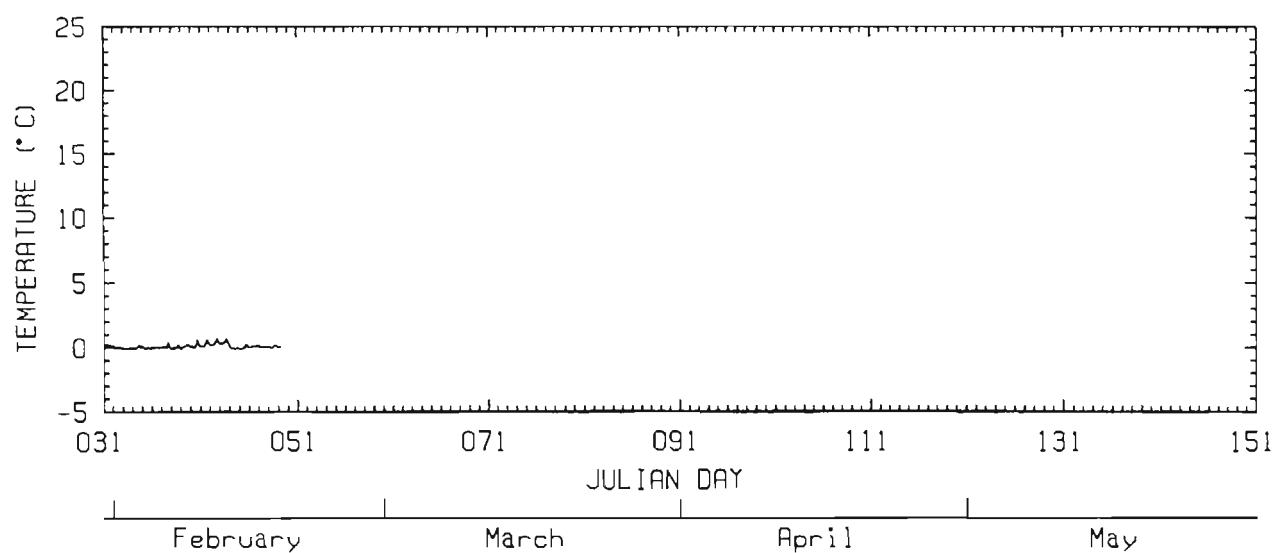
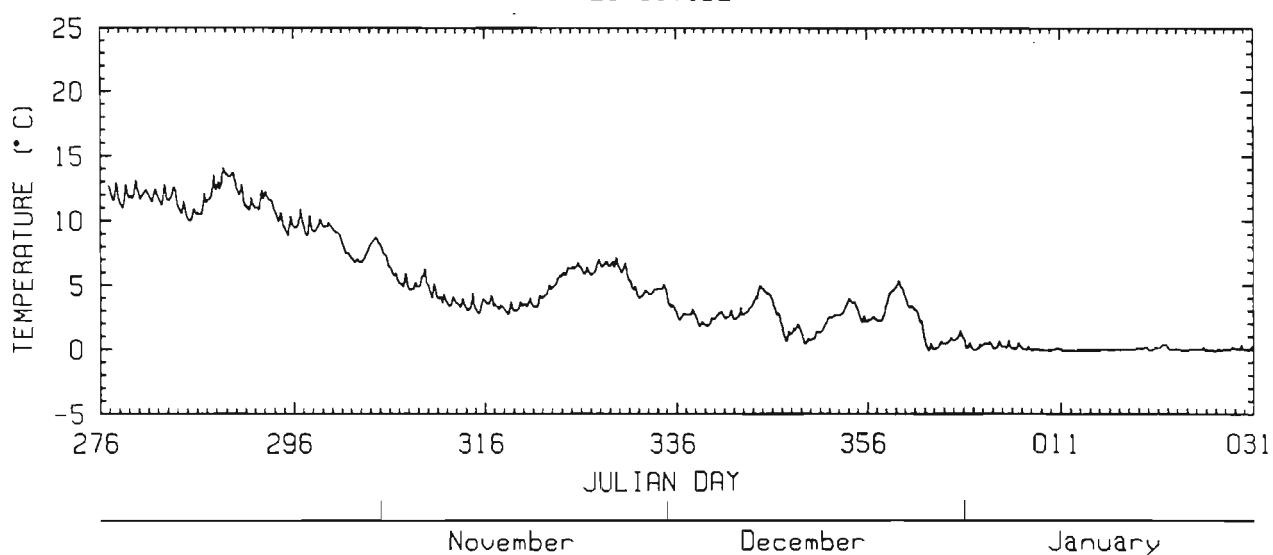
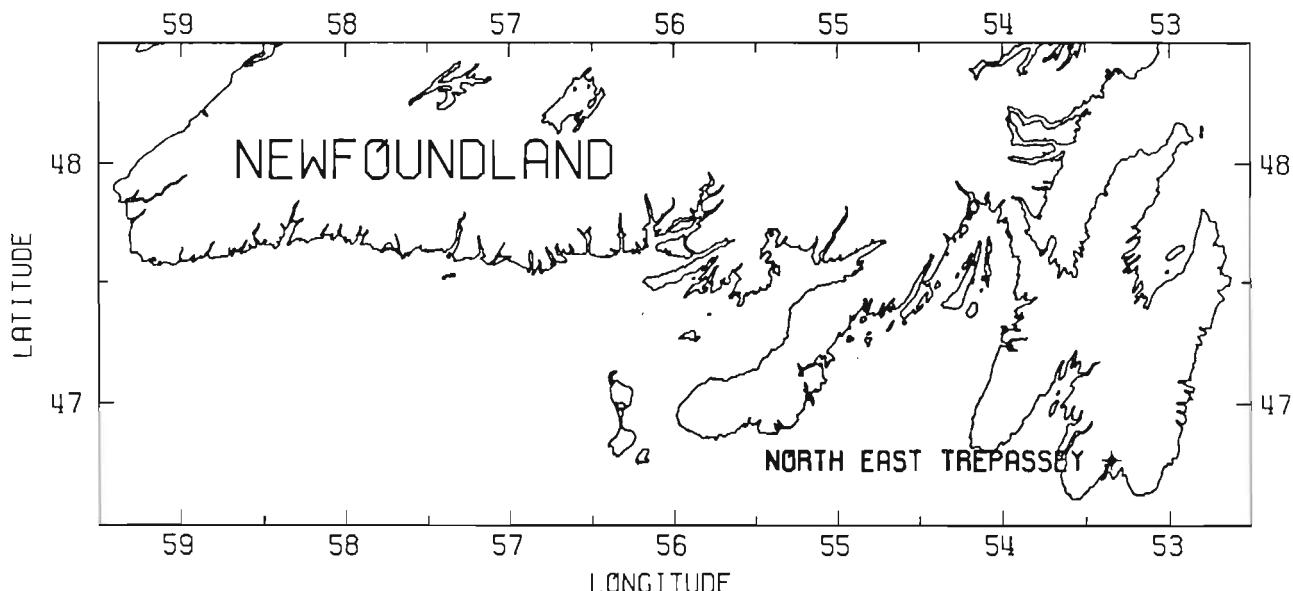
THERMOGRAPH DATA SUMMARY

STATION NAME: NORTH EAST TREPASSEY
STATION NUMBER: 130
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5459
LATITUDE: 46.77° N
LONGITUDE: 53.35° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 3-OCT-1990 22:00 GMT
RECOVERY DATE/TIME: 18-FEB-1991 08:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
OCT-1990	6.80	302	14.10	288	10.69	1.74	311.8	195.8	674
NOV-1990	2.70	318	8.20	305	4.81	1.27	144.4	29.9	720
DEC-1990	-0.10	362	5.30	359	2.41	1.23	74.8	1.7	744
JAN-1991	-0.10	2	0.90	1	0.05	0.16	2.3	0.0	744
FEB-1991	-0.10	32	0.70	42	0.08	0.17	1.5	0.0	417
Total Period	-0.10	362	14.10	288	3.80	4.07	534.8	227.4	3299

422



Start: 3-OCT-1990

End: 18-FEB-1991

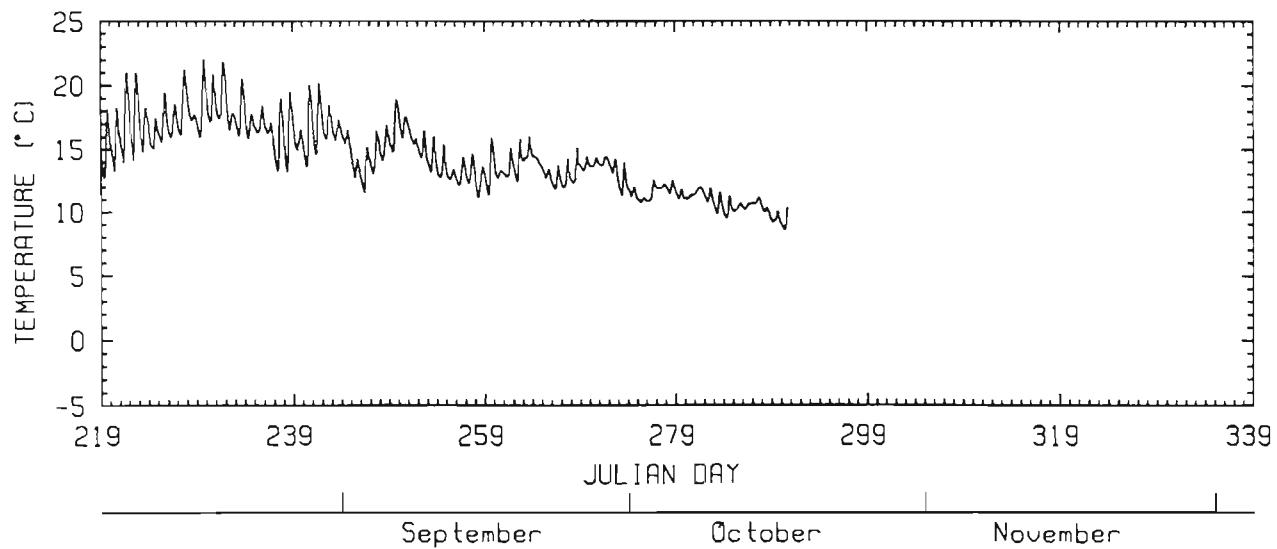
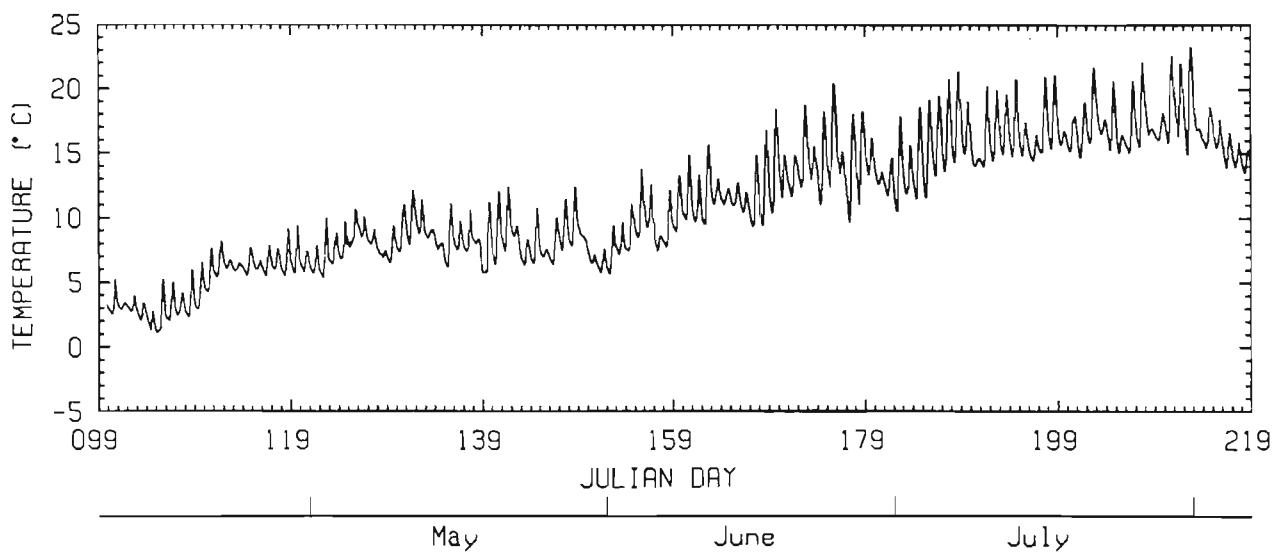
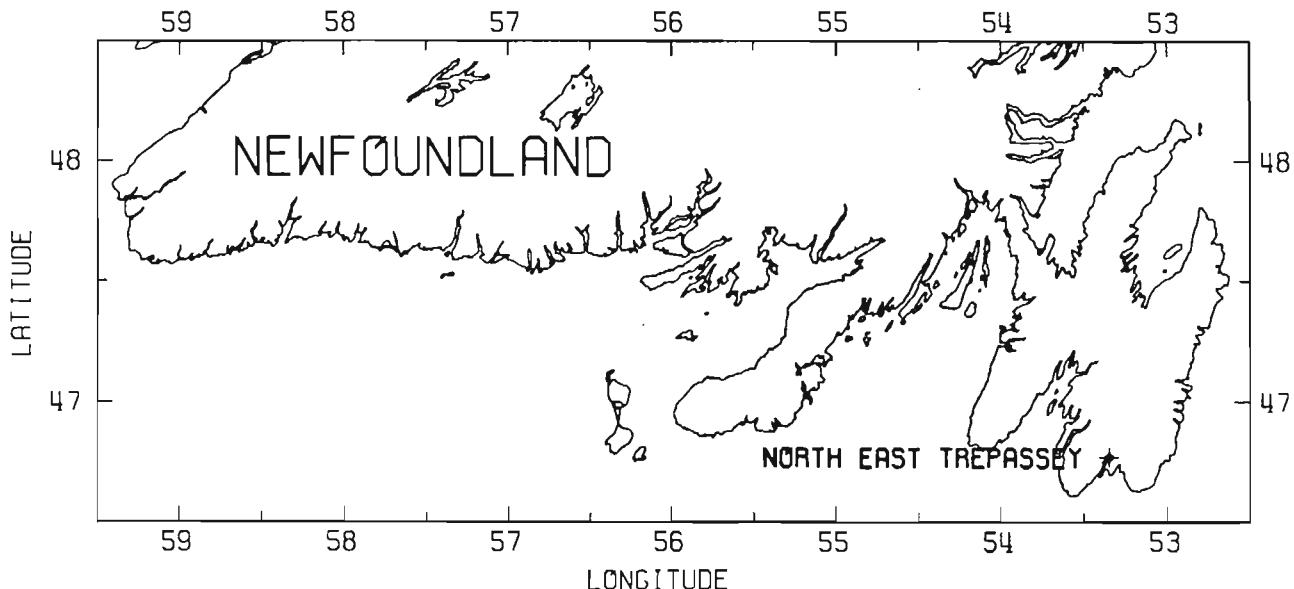
THERMOGRAPH DATA SUMMARY

STATION NAME: NORTH EAST TREPASSEY
STATION NUMBER: 130
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5472
LATITUDE: 46.77° N
LONGITUDE: 53.35° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 9-APR-1991 22:00 GMT
RECOVERY DATE/TIME: 17-OCT-1991 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
APR-1991	1.15	105	9.45	119	4.85	1.94	105.1	27.0	506
MAY-1991	5.35	122	12.45	141	8.17	1.45	253.2	129.2	744
JUN-1991	5.65	152	20.45	175	12.03	2.79	360.8	240.8	720
JUL-1991	10.55	182	23.30	212	16.62	2.35	515.2	391.2	744
AUG-1991	12.70	219	22.00	229	16.78	1.83	520.3	396.3	744
SEP-1991	11.10	258	18.85	249	13.94	1.43	418.2	298.2	720
OCT-1991	8.50	290	12.50	276	10.85	0.87	184.0	116.0	402
Total Period	1.15	105	23.30	212	12.32	4.43	2356.8	1598.8	4580

424



Start: 9-APR-1991

End: 17-OCT-1991

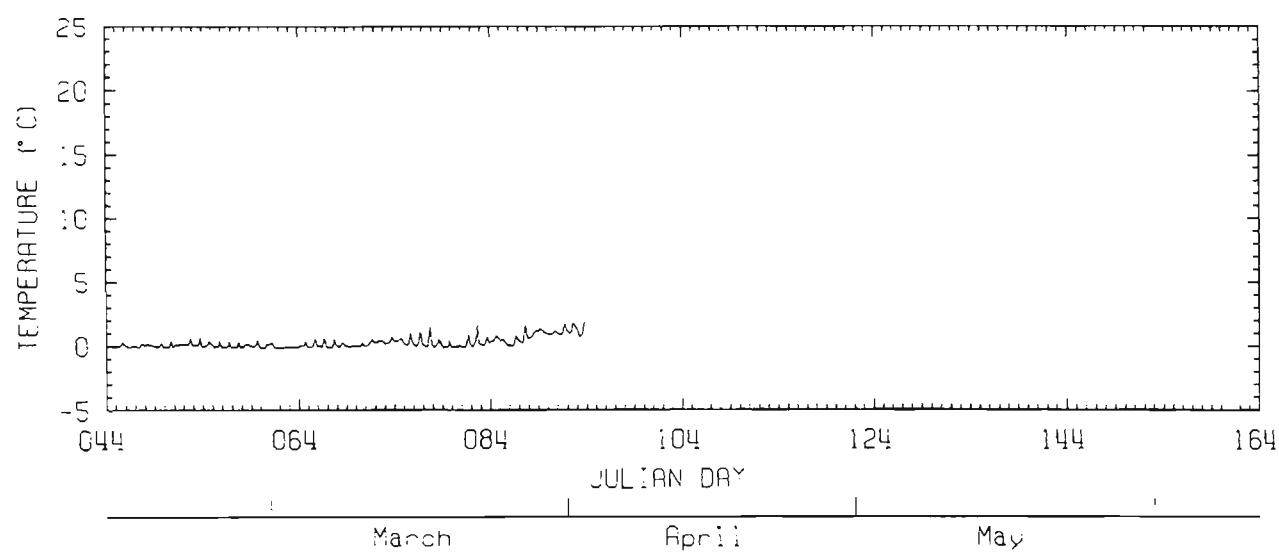
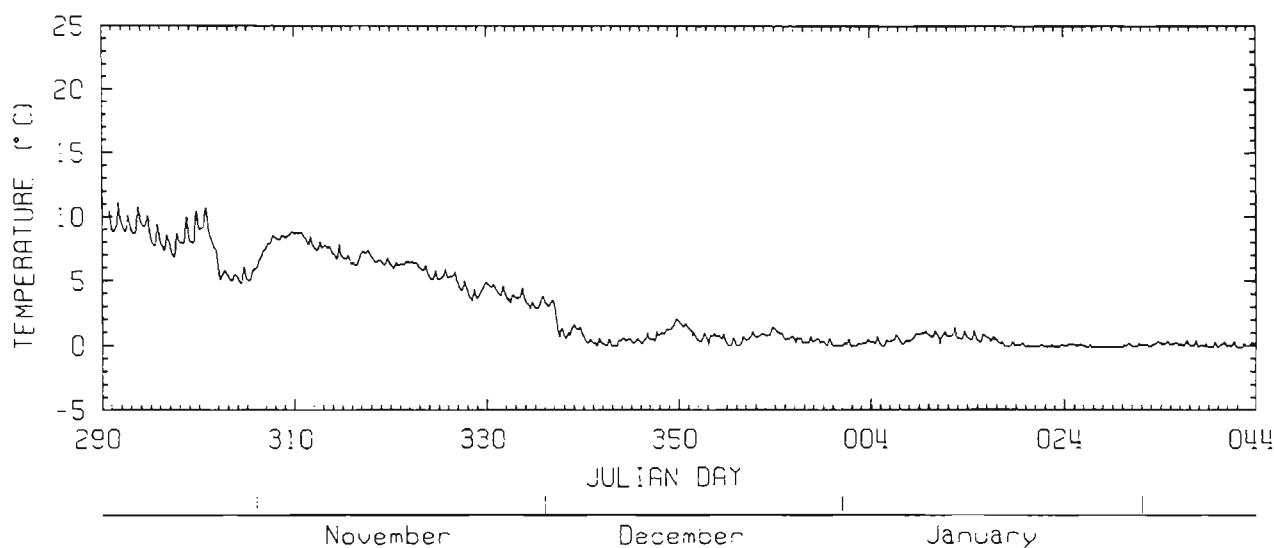
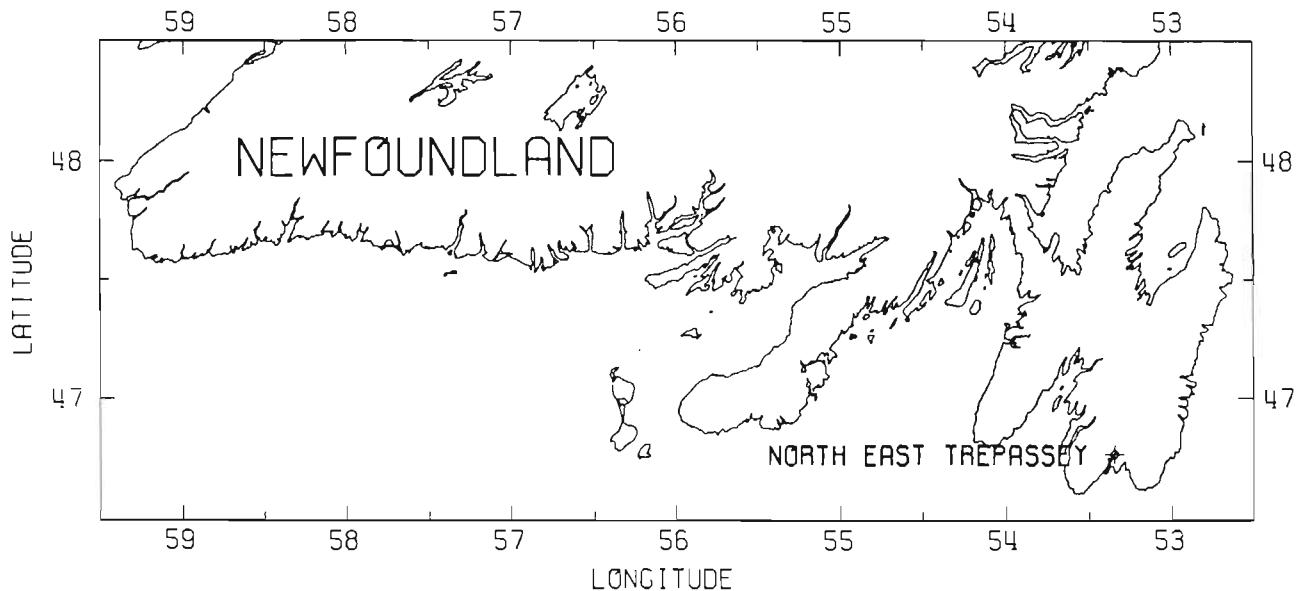
THERMOGRAPH DATA SUMMARY

STATION NAME: NORTH EAST TREPASSEY
STATION NUMBER: 130
INSTRUMENT TYPE: Seaman UTR-B (Hugrun)
INSTRUMENT S/N: 6599
LATITUDE: 46.77° N
LONGITUDE: 53.35° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 2 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 17-OCT-1991 18:00 GMT
RECOVERY DATE/TIME: 2-APR-1992 21:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
OCT-1991	4.70	304	11.20	291	8.07	1.66	122.3	62.3	342
NOV-1991	2.80	334	8.80	309	6.09	1.59	182.8	64.3	720
DEC-1991	-0.10	341	3.80	335	0.83	0.79	25.6	0.0	744
JAN-1992	-0.10	1	1.40	12	0.24	0.34	8.2	0.0	744
FEB-1992	-0.20	60	0.60	52	0.05	0.14	1.7	0.0	696
MAR-1992	-0.20	61	1.70	91	0.29	0.41	9.4	0.0	744
APR-1992	0.70	93	1.80	92	1.23	0.37	2.5	0.0	46
Total Period	-0.20	60	11.20	291	2.05	3.00	352.6	126.7	4036

426



Start: 17-OCT-1991

End: 2-APR-1992

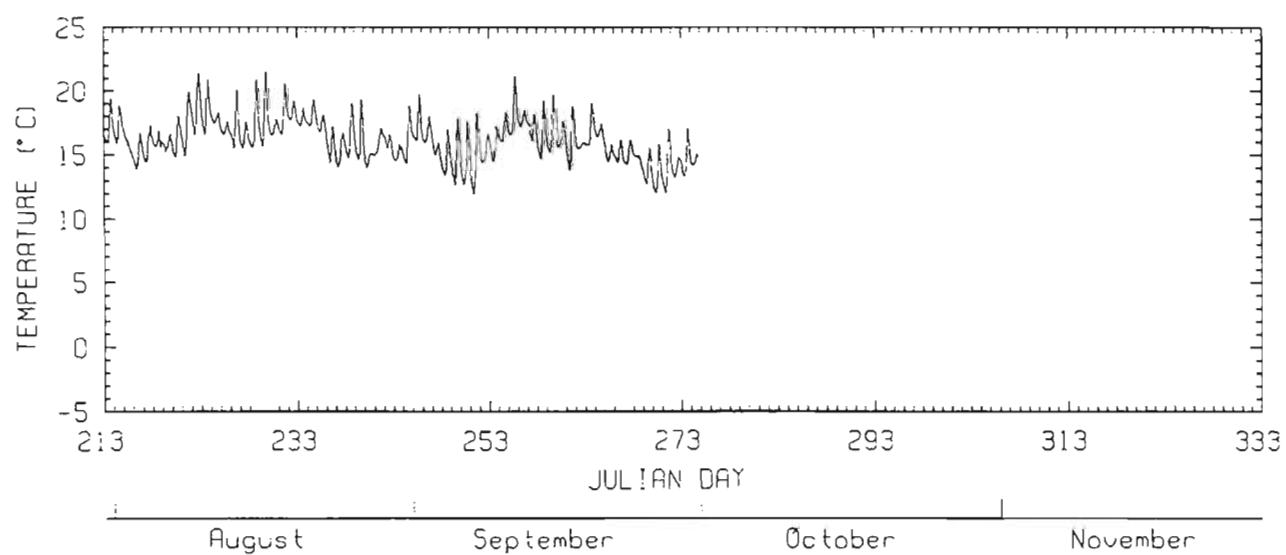
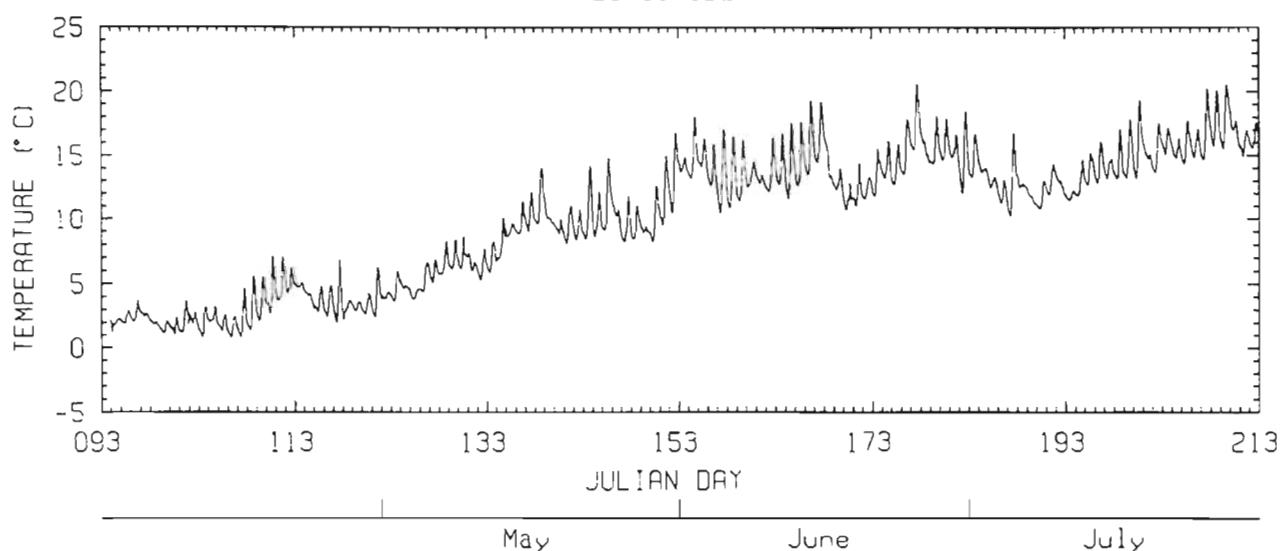
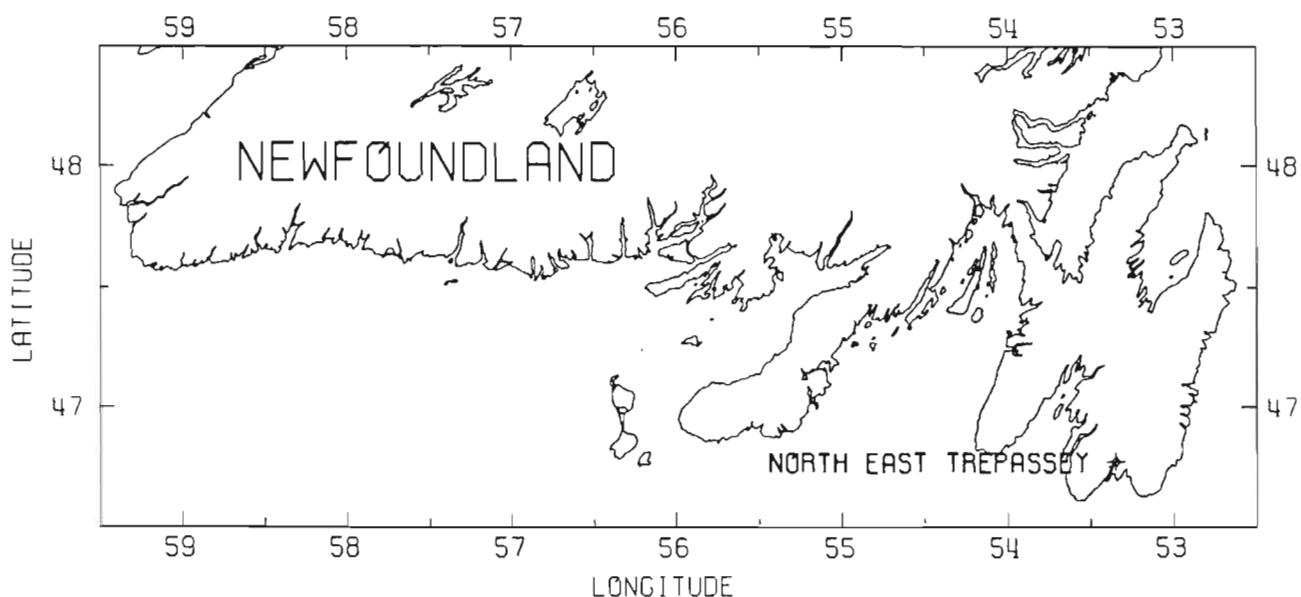
THERMOGRAPH DATA SUMMARY

STATION NAME: NORTH EAST TREPASSEY
STATION NUMBER: 130
INSTRUMENT TYPE: Seamon UTR-A (Hugrun)
INSTRUMENT S/N: 5516
LATITUDE: 46.77° N
LONGITUDE: 53.35° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 2 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 2-APR-1992 22:00 GMT
RECOVERY DATE/TIME: 30-SEP-1992 19:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
APR-1992	0.80	103	7.10	110	2.98	1.32	85.6	3.2	674
MAY-1992	3.60	123	16.80	152	8.43	2.65	261.4	137.4	744
JUN-1992	10.40	157	20.60	177	14.23	1.92	426.9	306.9	720
JUL-1992	10.20	187	20.50	209	14.60	2.14	452.7	328.7	744
AUG-1992	13.90	216	21.50	229	16.73	1.55	518.5	394.5	744
SEP-1992	11.90	251	21.30	255	15.66	1.69	469.7	349.7	716
Total Period	0.80	103	21.50	229	12.22	5.15	2214.9	1520.5	4342

428



Start: 2-APR-1992

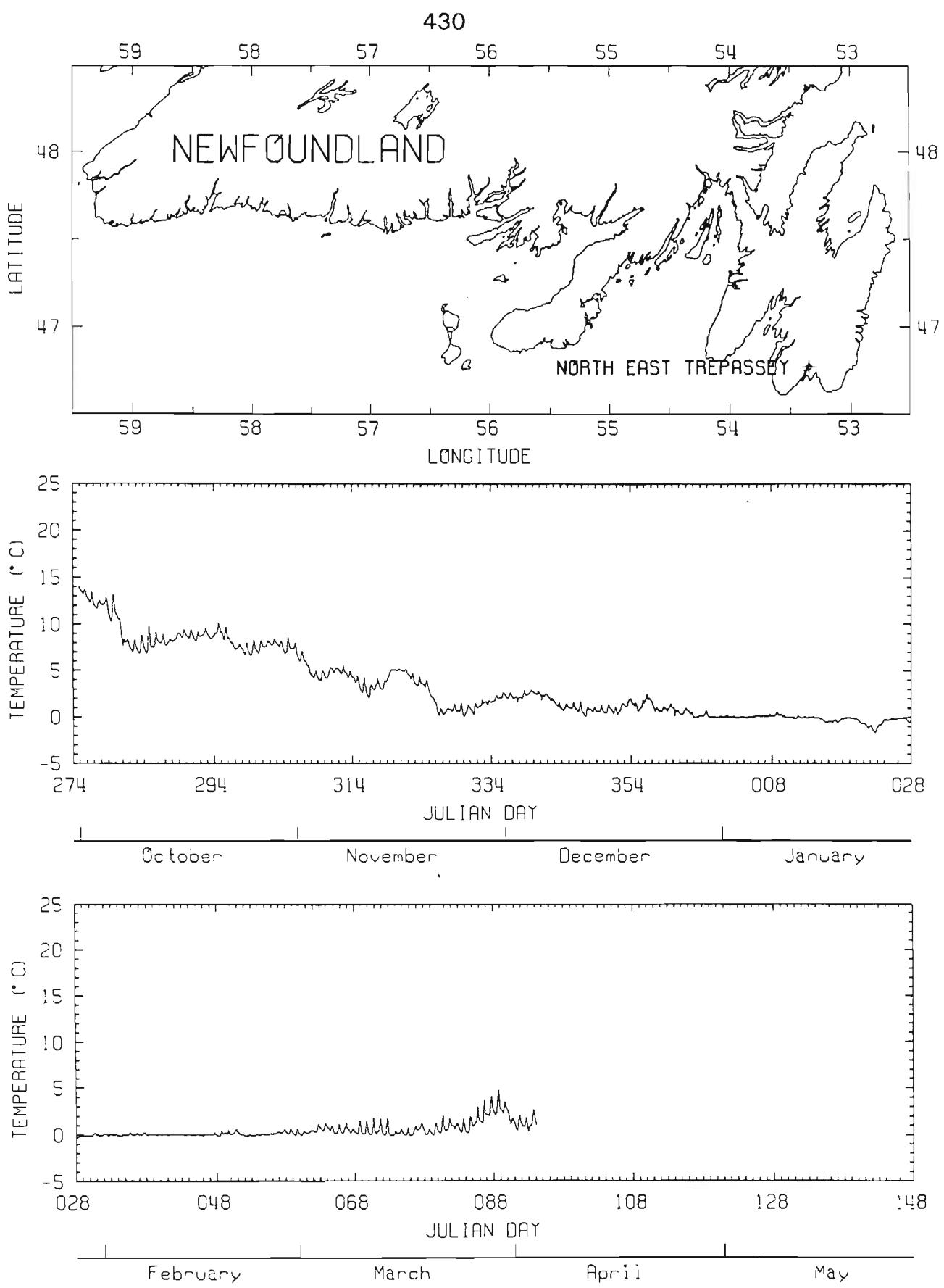
End: 30-SEP-1992

THERMOGRAPH DATA SUMMARY

STATION NAME: NORTH EAST TREPASSEY
STATION NUMBER: 130
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 6596
LATITUDE: 46.77° N
LONGITUDE: 53.35° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 30-SEP-1992 21:00 GMT
RECOVERY DATE/TIME: 4-APR-1993 04:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
SEP-1992	13.80	274	14.00	274	13.90	0.08	13.9	9.9	3
OCT-1992	6.60	299	13.70	275	8.85	1.77	274.3	150.3	744
NOV-1992	0.00	330	7.20	306	3.25	1.74	97.5	11.6	720
DEC-1992	-0.10	363	2.90	338	1.14	0.79	35.5	0.0	744
JAN-1993	-1.70	22	0.60	8	-0.19	0.35	0.7	0.0	744
FEB-1993	-0.10	32	0.70	58	0.05	0.14	1.8	0.0	672
MAR-1993	-0.10	60	4.70	88	0.84	0.91	26.0	0.0	744
APR-1993	0.30	92	2.60	93	1.19	0.57	4.7	0.0	77
Total Period	-1.70	22	14.00	274	2.34	3.33	454.4	171.8	4448



Start: 30-SEP-1992

End: 4-APR-1993

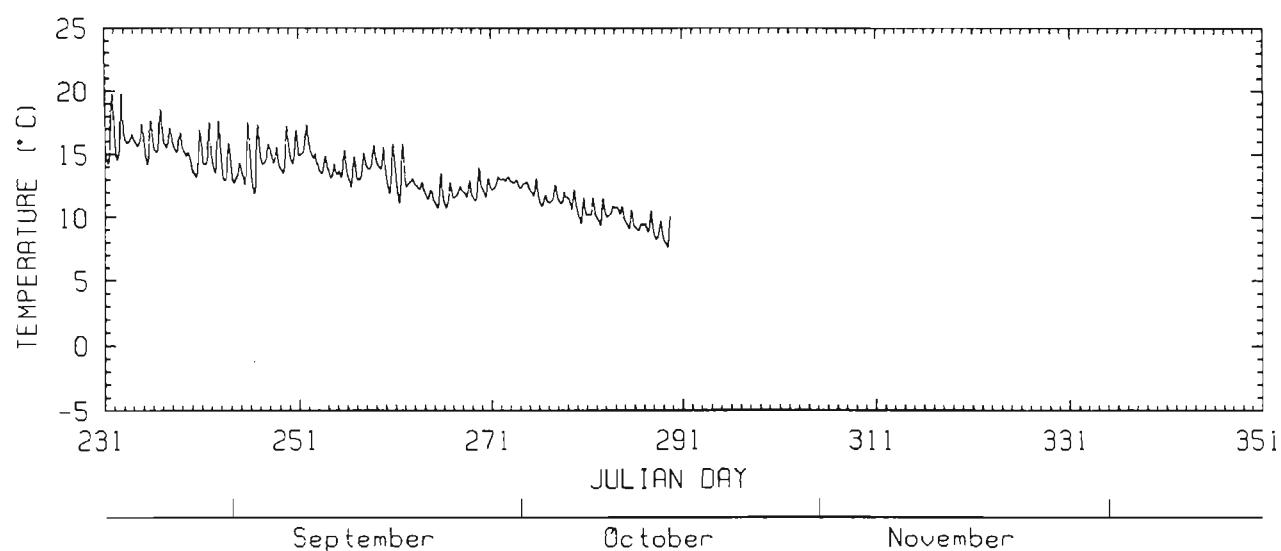
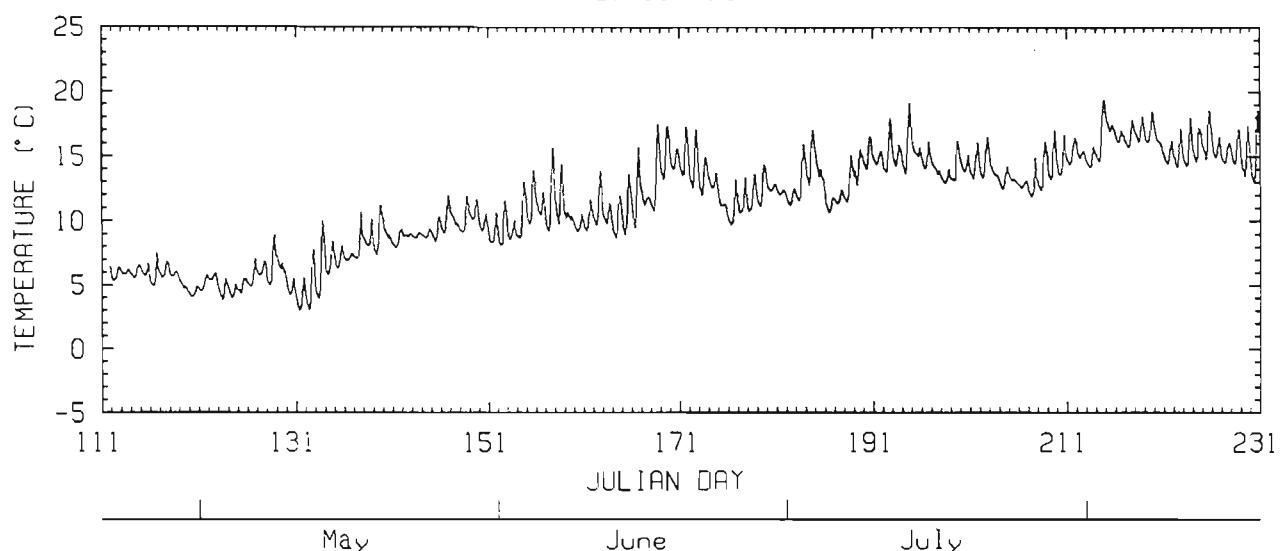
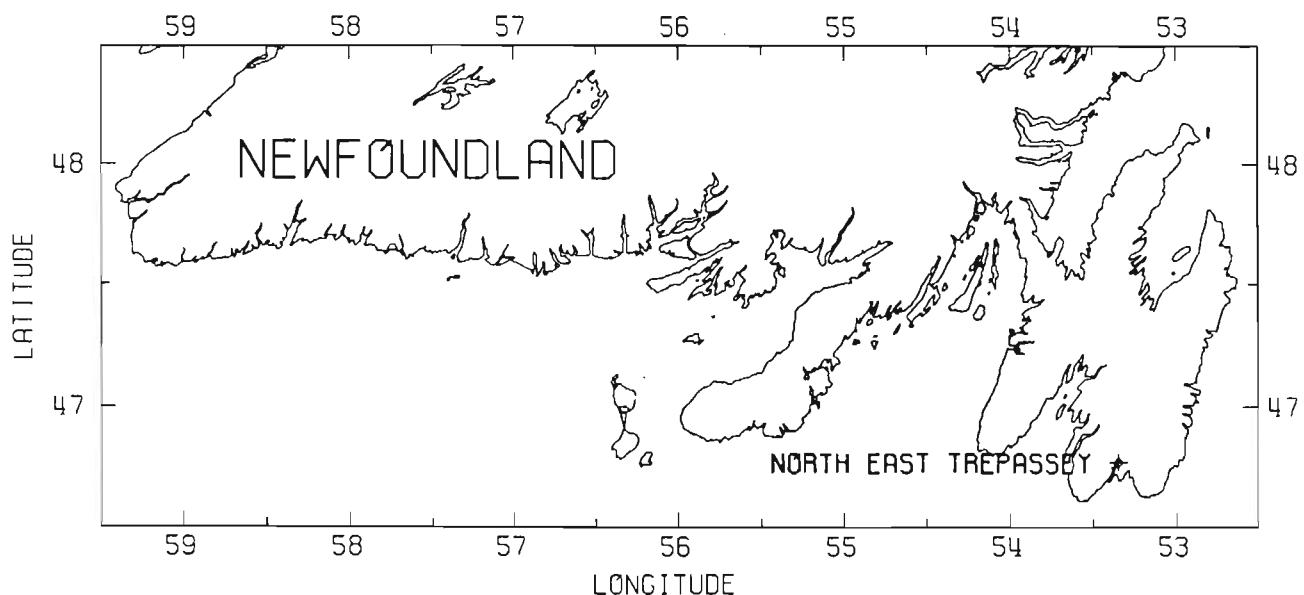
THERMOGRAPH DATA SUMMARY

STATION NAME: NORTH EAST TREPASSEY
STATION NUMBER: 130
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 6642
LATITUDE: 46.77° N
LONGITUDE: 53.35° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 21-APR-1993 22:00 GMT
RECOVERY DATE/TIME: 16-OCT-1993 19:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
APR-1993	4.00	120	7.50	116	5.65	0.69	57.1	17.1	218
MAY-1993	3.00	131	11.90	146	7.39	2.18	229.2	105.2	744
JUN-1993	8.10	152	17.50	168	11.79	2.03	353.7	233.7	720
JUL-1993	10.70	186	19.10	194	14.02	1.48	434.5	310.5	744
AUG-1993	12.90	230	19.80	231	15.80	1.34	489.9	365.9	744
SEP-1993	10.70	265	17.50	245	13.47	1.42	404.2	284.2	720
OCT-1993	7.60	289	13.20	275	10.56	1.25	168.5	104.5	380
Total Period	3.00	131	19.80	231	11.97	3.50	2137.1	1421.1	4270

432



Start: 21-APR-1993

End: 16-OCT-1993

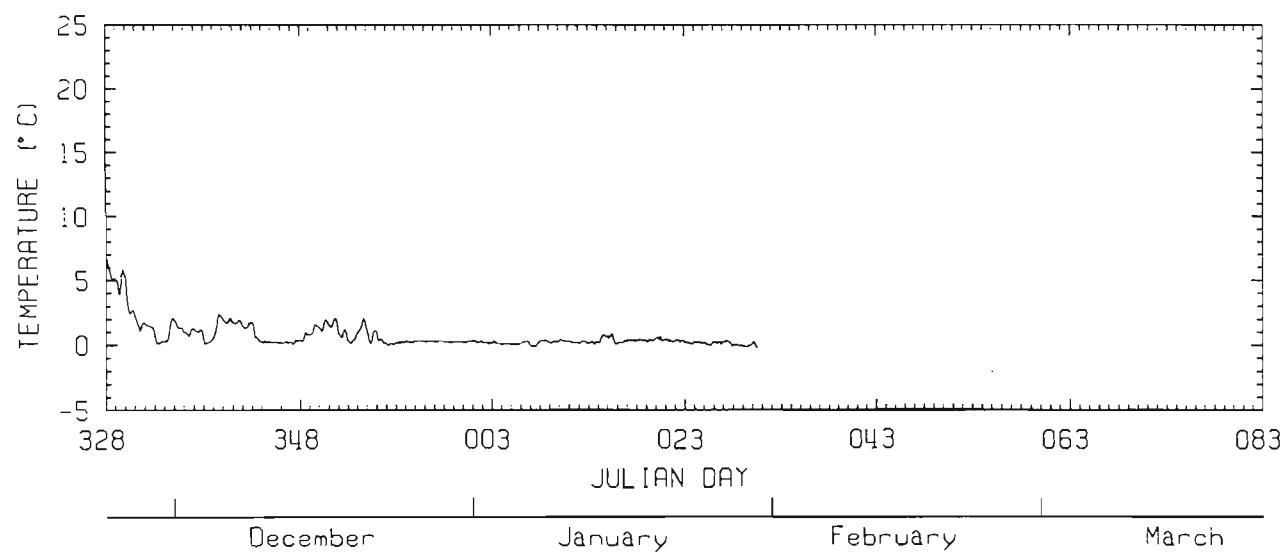
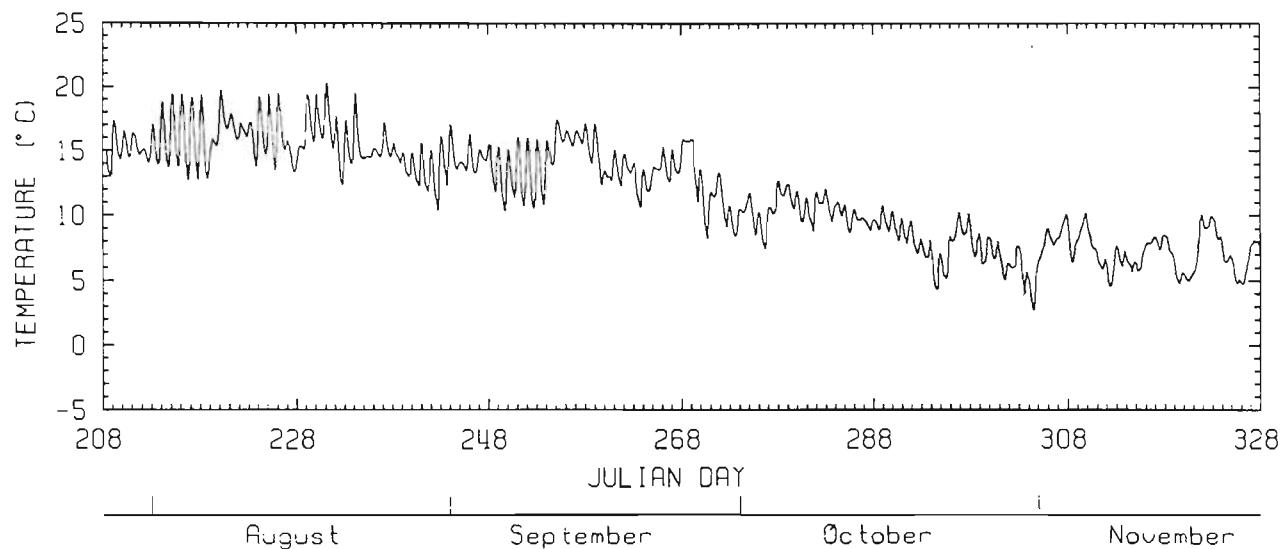
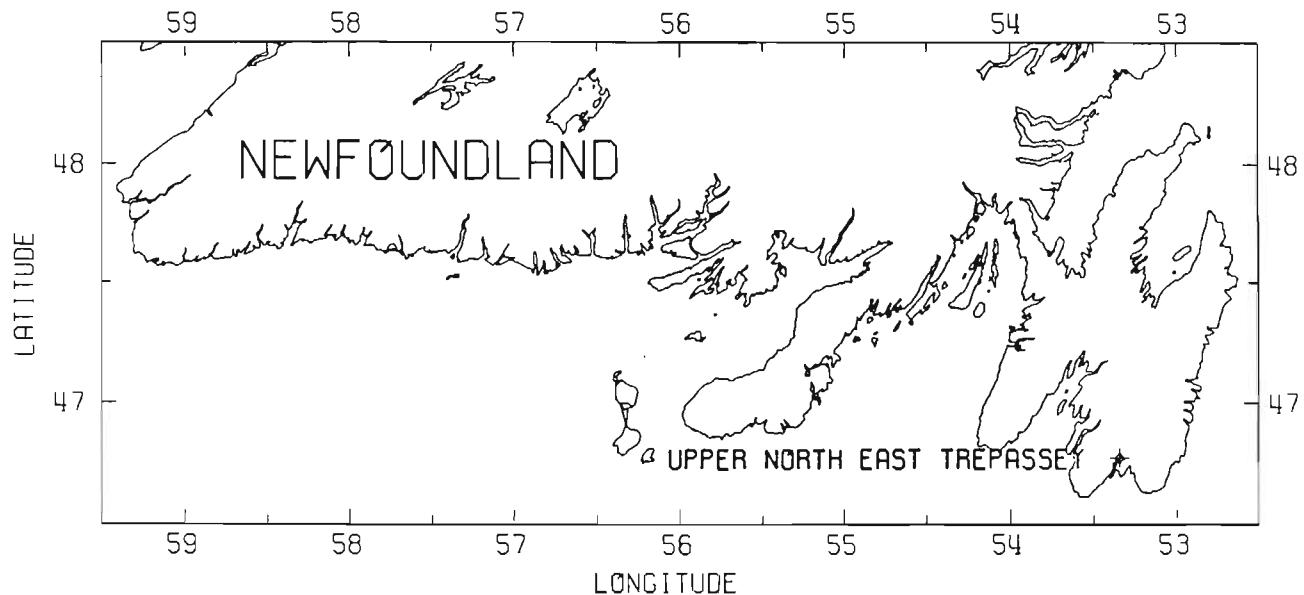
THERMOGRAPH DATA SUMMARY

STATION NAME: UPPER N.E. TREPASSY
STATION NUMBER: 151
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 63292
LATITUDE: 46.77° N
LONGITUDE: 53.35° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 27-JUL-1989 11:00 GMT
RECOVERY DATE/TIME: 30-JAN-1990 13:02 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-1989	12.99	208	17.38	209	15.16	1.02	75.1	55.1	59
AUG-1989	10.41	242	20.36	231	15.63	1.94	485.0	361.0	379
SEP-1989	8.19	270	17.41	255	13.65	1.96	410.5	290.5	360
OCT-1989	2.69	304	12.69	278	8.80	2.08	272.6	148.6	373
NOV-1989	0.09	333	10.22	309	6.18	2.54	185.0	77.9	360
DEC-1989	-0.02	357	2.44	339	0.75	0.63	23.1	0.0	372
JAN-1990	-0.24	30	0.88	15	0.21	0.18	6.3	0.0	347
Total Period	-0.24	30	20.36	231	7.82	6.17	1457.5	933.0	2250

434



Start: 27-JUL-1989

End: 30-JAN-1990

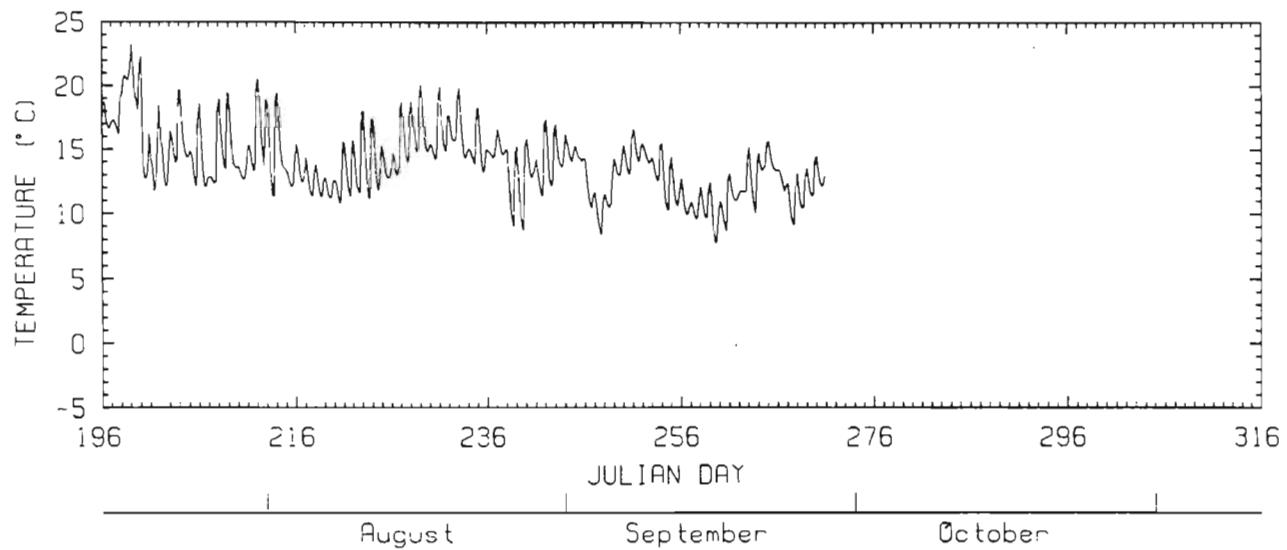
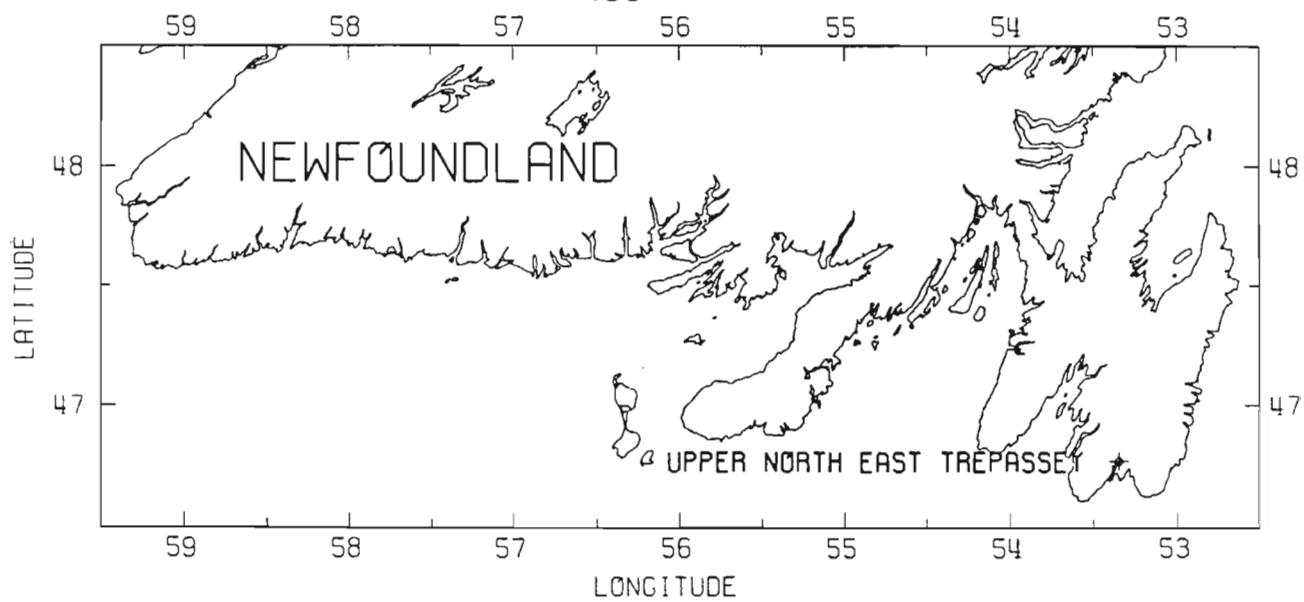
THERMOGRAPH DATA SUMMARY

STATION NAME: UPPER NORTH EAST TREPASSEY
STATION NUMBER: 151
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 63302
LATITUDE: 46.77° N
LONGITUDE: 53.35° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 15-JUL-1991 06:00 GMT
RECOVERY DATE/TIME: 27-SEP-1991 22:08 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUL-1991	11.71	201	23.25	199	15.83	2.88	269.7	201.7	102
AUG-1991	8.77	239	20.09	229	14.39	2.30	445.9	321.9	190
SEP-1991	7.73	259	16.66	251	12.44	1.93	335.4	227.4	164
Total Period	7.73	259	23.25	199	14.01	2.66	1051.0	751.0	456

436



Start: 15-JUL-1991

End: 27-SEP-1991

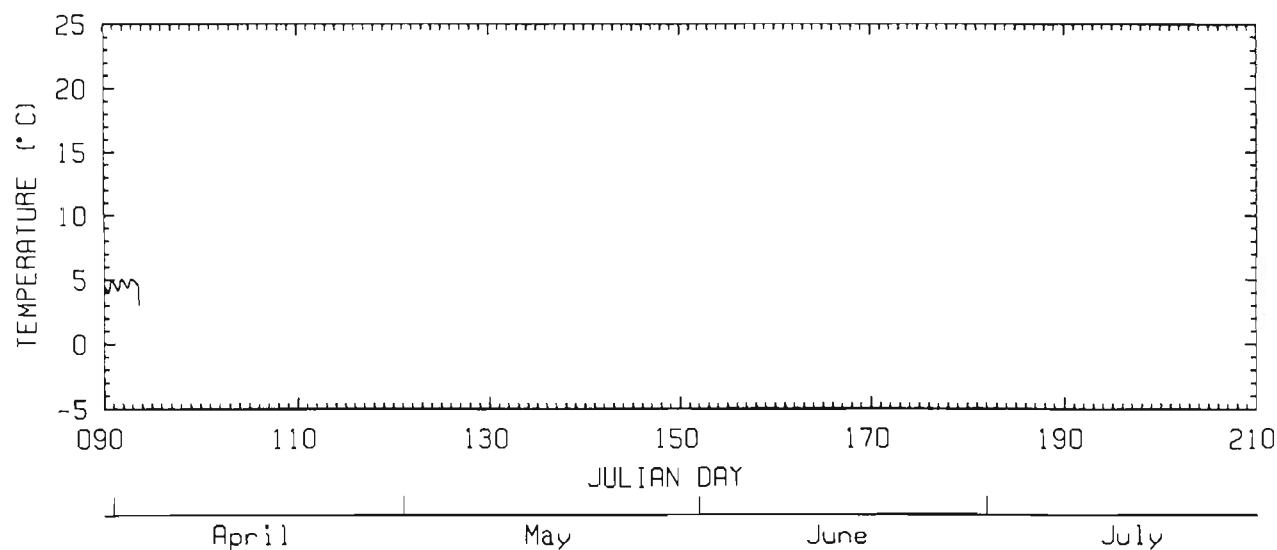
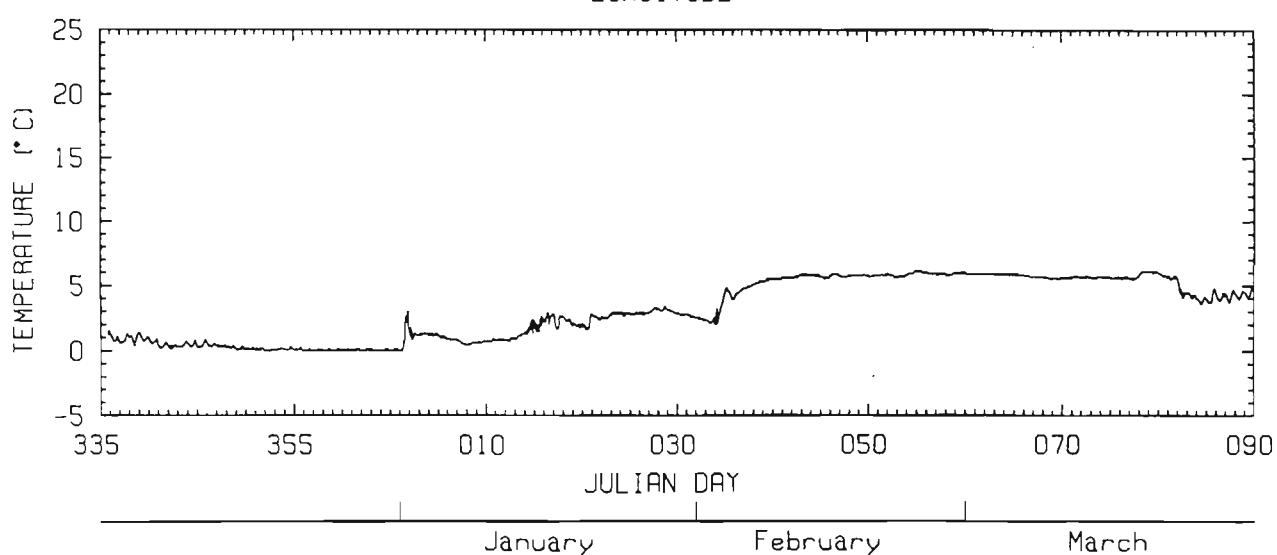
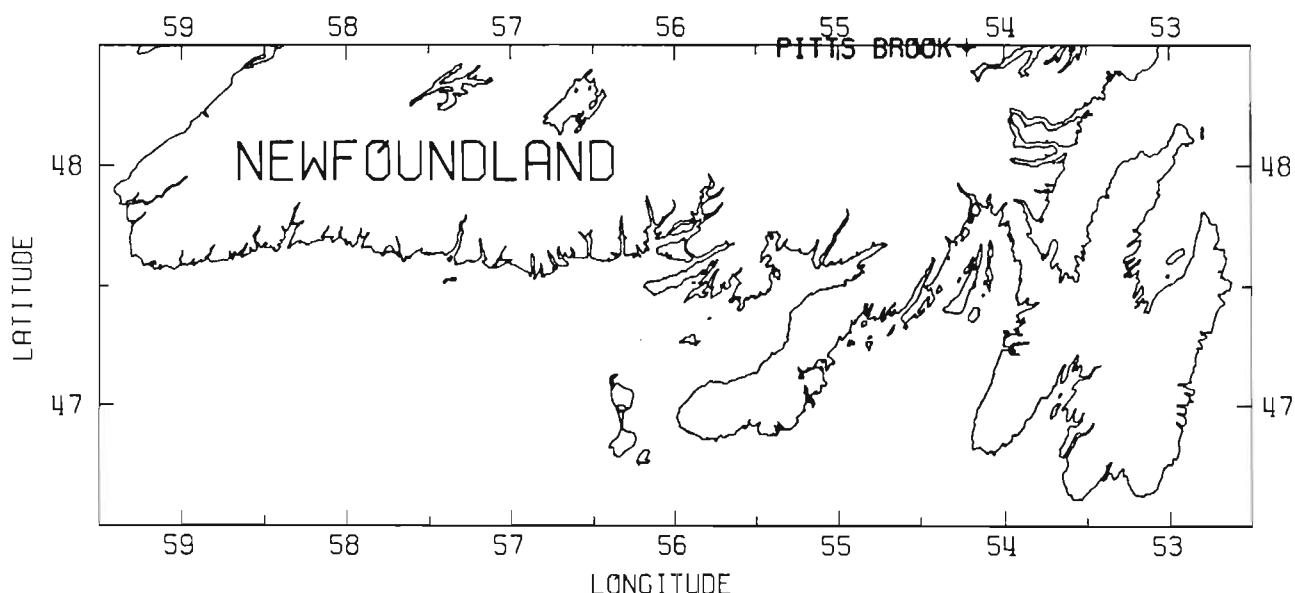
THERMOGRAPH DATA SUMMARY

STATION NAME: PITTS BROOK
STATION NUMBER: 147
INSTRUMENT TYPE: Seamon UTR-A (Hugrun)
INSTRUMENT S/N: 4360
LATITUDE: 48.49° N
LONGITUDE: 54.22° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 1-DEC-1989 18:00 GMT
RECOVERY DATE/TIME: 3-APR-1990 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
DEC-1989	0.00	349	1.50	335	0.29	0.34	9.7	0.0	726
JAN-1990	0.00	1	3.40	28	1.86	0.92	57.6	0.0	744
FEB-1990	1.90	34	6.10	54	5.27	1.05	147.5	39.9	672
MAR-1990	3.60	84	6.10	78	5.33	0.72	165.2	41.3	744
APR-1990	2.90	93	5.10	91	4.68	0.35	14.1	2.1	64
Total Period	0.00	349	6.10	54	3.18	2.31	394.0	83.2	2950

438



Start: 1-DEC-1989

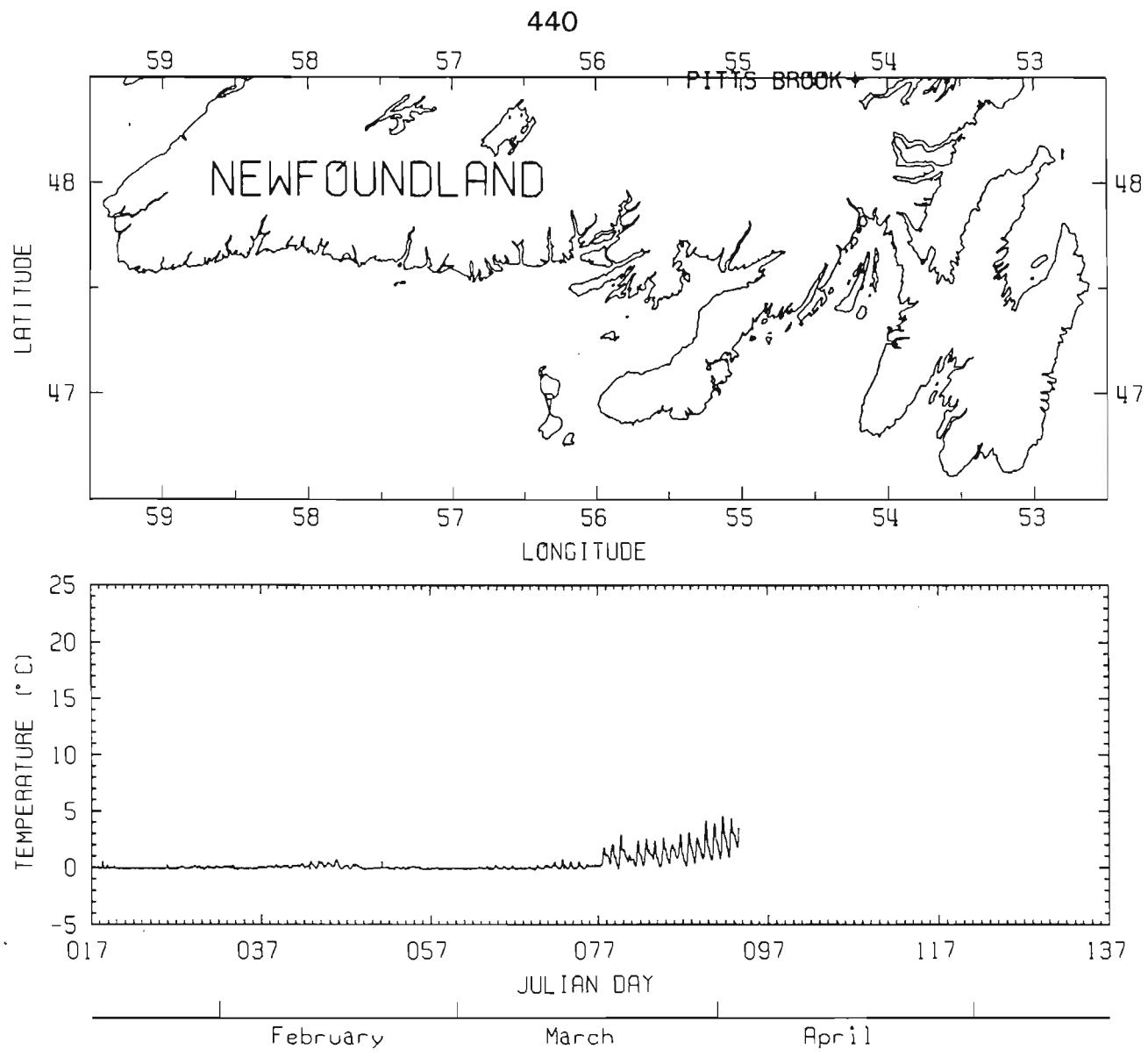
End: 3-APR-1990

THERMOGRAPH DATA SUMMARY

STATION NAME: PITTS BROOK
STATION NUMBER: 147
INSTRUMENT TYPE: Ryan TempMentor
INSTRUMENT S/N: 900285
LATITUDE: 48.49° N
LONGITUDE: 54.22° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 17-JAN-1990 18:00 GMT
RECOVERY DATE/TIME: 3-APR-1990 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JAN-1990	-0.20	19	0.60	18	-0.04	0.08	0.0	0.0	342
FEB-1990	-0.20	33	0.70	45	0.03	0.15	1.6	0.0	672
MAR-1990	-0.20	61	4.20	89	0.59	0.85	18.5	0.0	744
APR-1990	0.70	91	4.60	91	2.43	1.00	7.3	0.0	62
Total Period	-0.20	19	4.60	91	0.32	0.76	27.4	0.0	1820



Start: 17-JAN-1990

End: 3-APR-1990

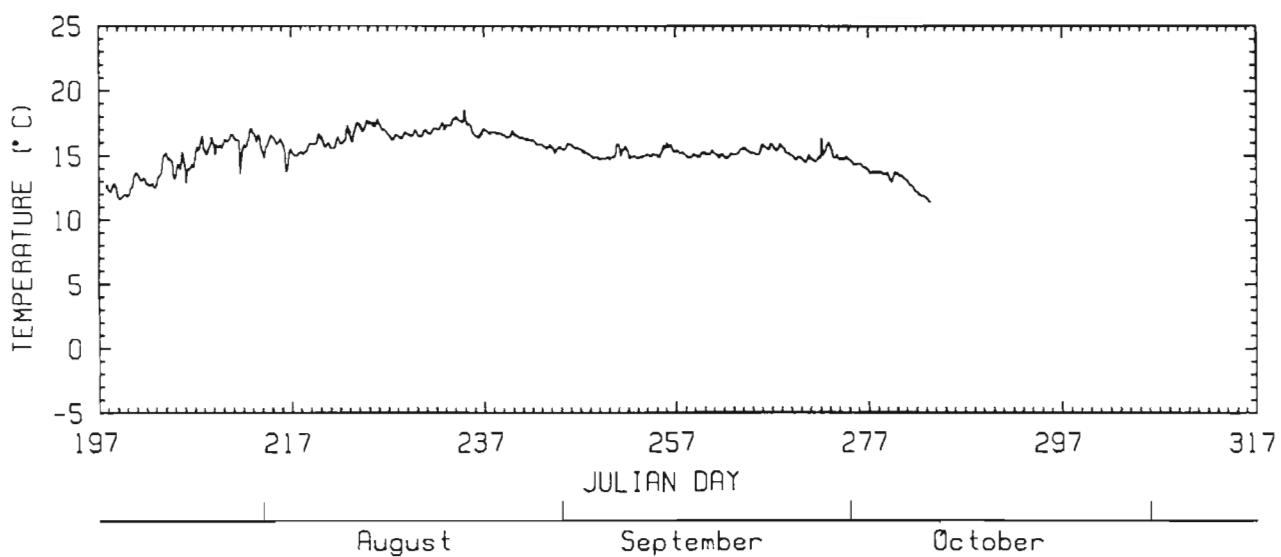
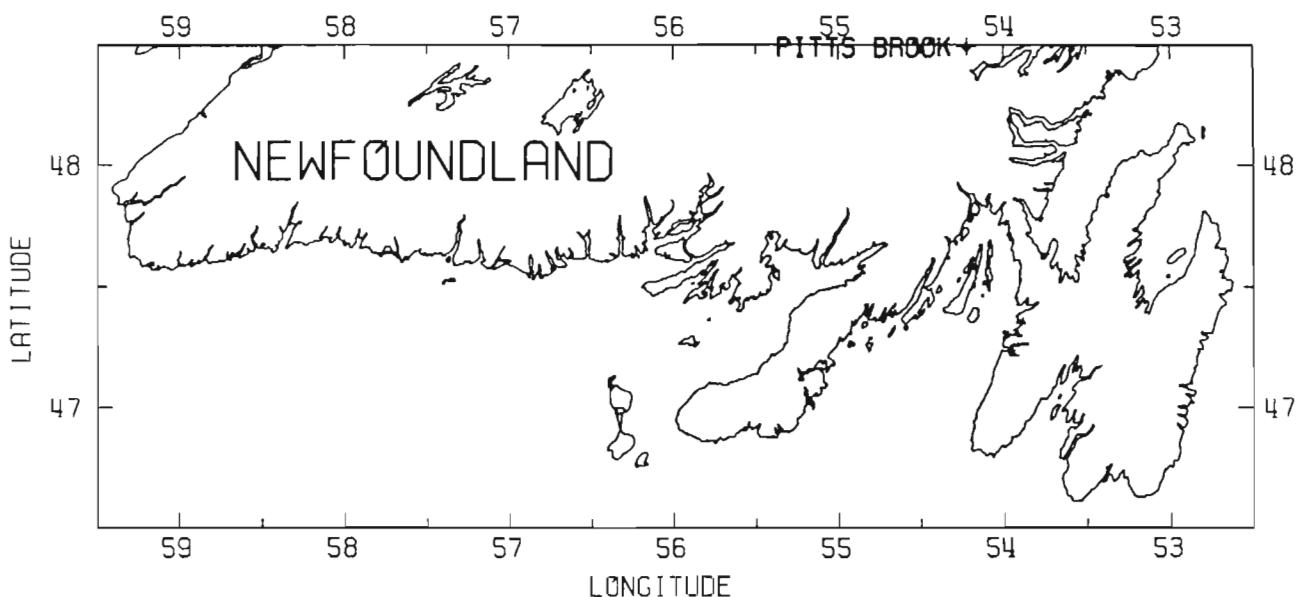
THERMOGRAPH DATA SUMMARY

STATION NAME: PITTS BROOK
STATION NUMBER: 147
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 7821
LATITUDE: 48.49° N
LONGITUDE: 54.22° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 15-JUL-1992 18:00 GMT
RECOVERY DATE/TIME: 9-OCT-1992 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUL-1992	11.60	199	17.10	212	14.40	1.55	243.4	175.4	390
AUG-1992	13.70	216	18.50	235	16.45	0.74	510.0	386.0	744
SEP-1992	14.50	270	16.30	272	15.19	0.35	455.8	335.8	720
OCT-1992	11.40	283	14.70	275	13.31	0.88	119.0	83.0	205
Total Period	11.40	283	18.50	235	15.31	1.34	1328.3	980.3	2059

442



Start: 15-JUL-1992

End: 9-OCT-1992

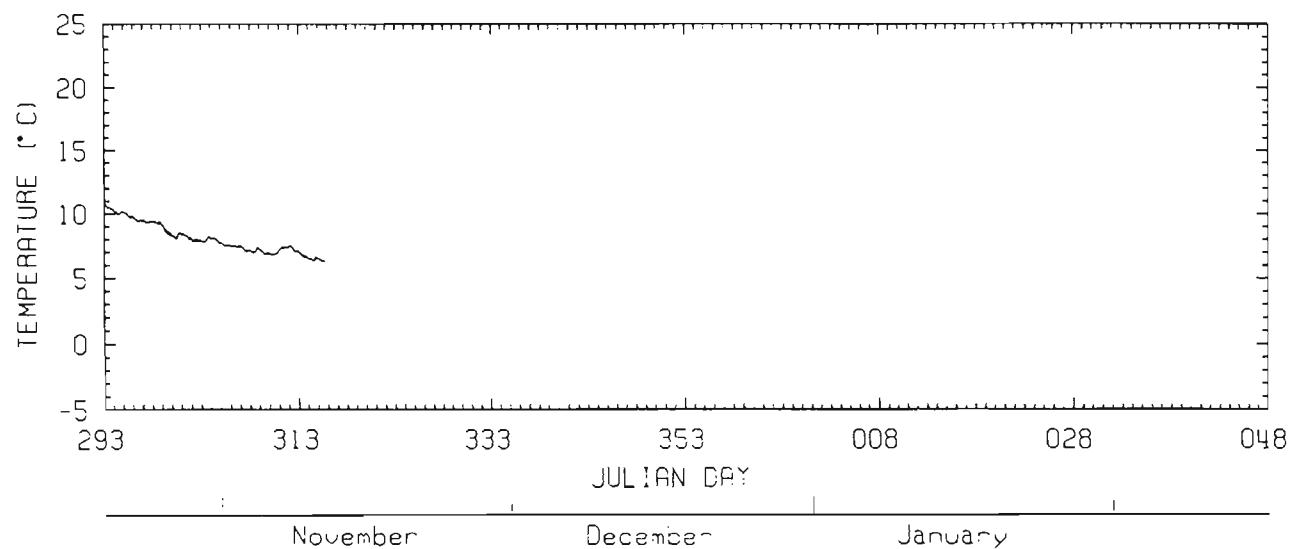
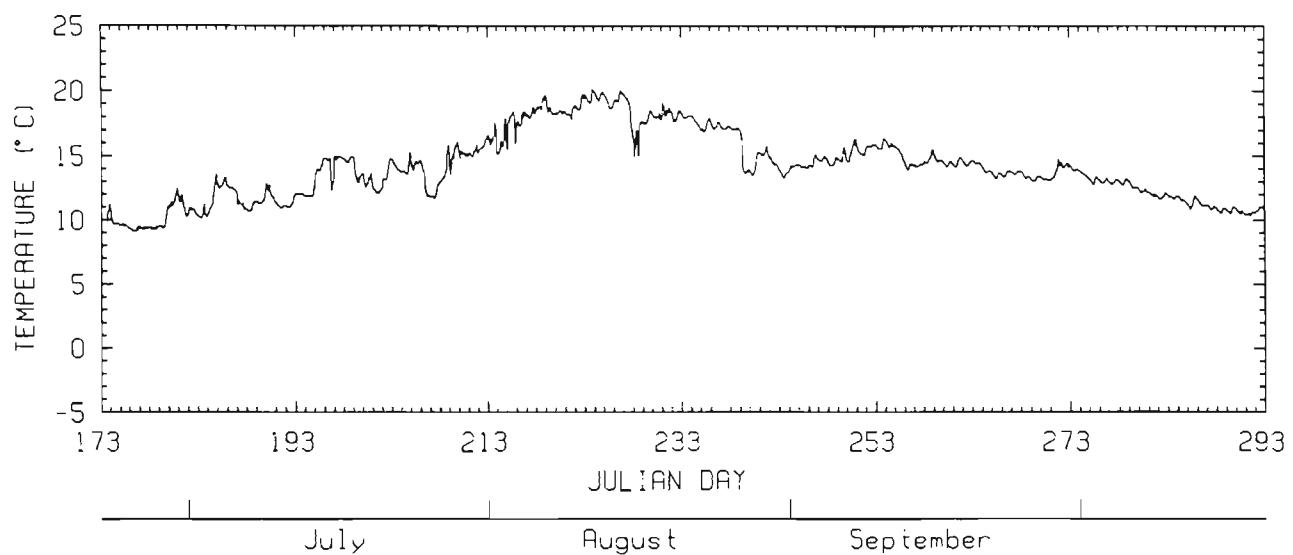
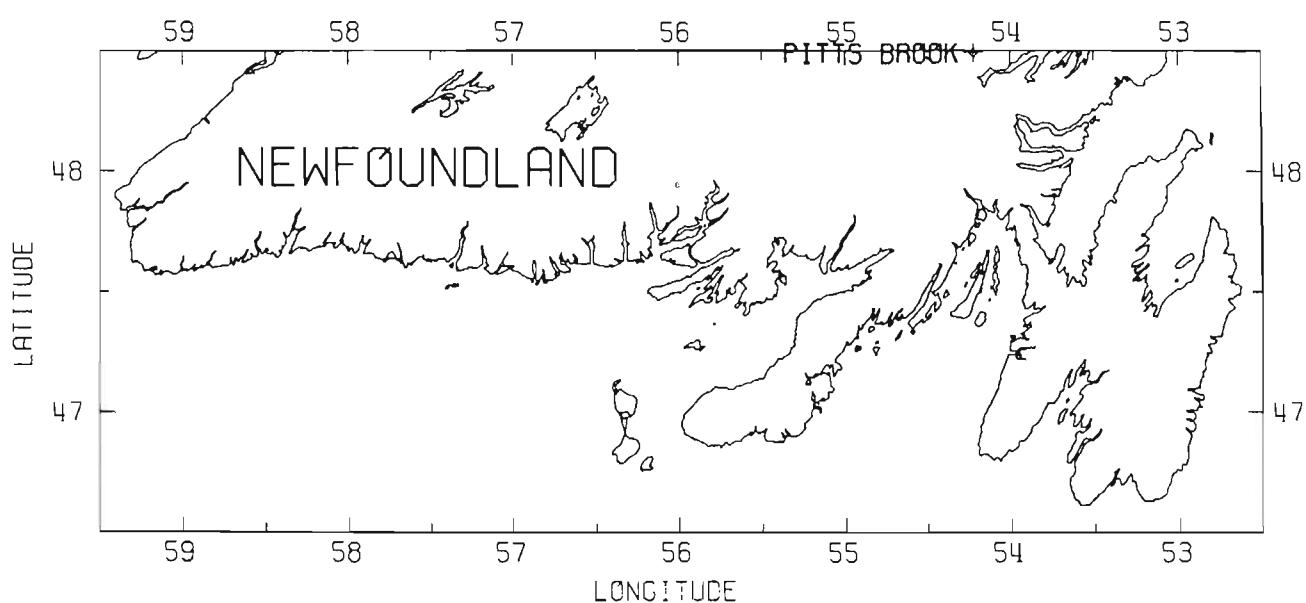
THERMOGRAPH DATA SUMMARY

STATION NAME: PITTS BROOK
STATION NUMBER: 147
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3264
LATITUDE: 48.49° N
LONGITUDE: 54.22° W
INSTRUMENT DEPTH: 9 m
WATER DEPTH: 12 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 22-JUN-1993 13:00 GMT
RECOVERY DATE/TIME: 11-NOV-1993 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1993	9.10	176	12.50	180	9.99	0.87	90.2	54.2	203
JUL-1993	10.10	183	16.40	212	13.00	1.61	402.8	278.8	744
AUG-1993	13.30	243	20.10	223	17.47	1.67	541.6	417.6	744
SEP-1993	13.00	269	16.40	253	14.43	0.78	433.0	313.0	720
OCT-1993	7.70	302	13.90	274	10.72	1.69	332.4	208.4	744
NOV-1993	6.30	314	7.70	305	7.04	0.38	77.3	33.3	258
Total Period	6.30	314	20.10	223	13.15	3.33	1877.4	1305.4	3413

444



Start: 22-JUN-1993

End: 11-NOV-1993

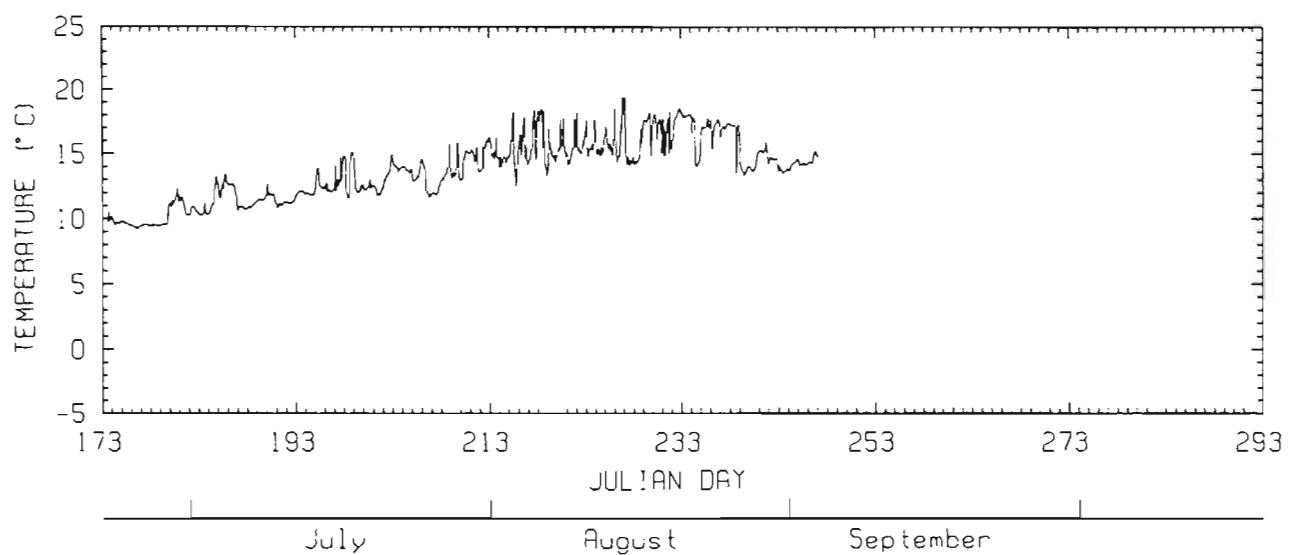
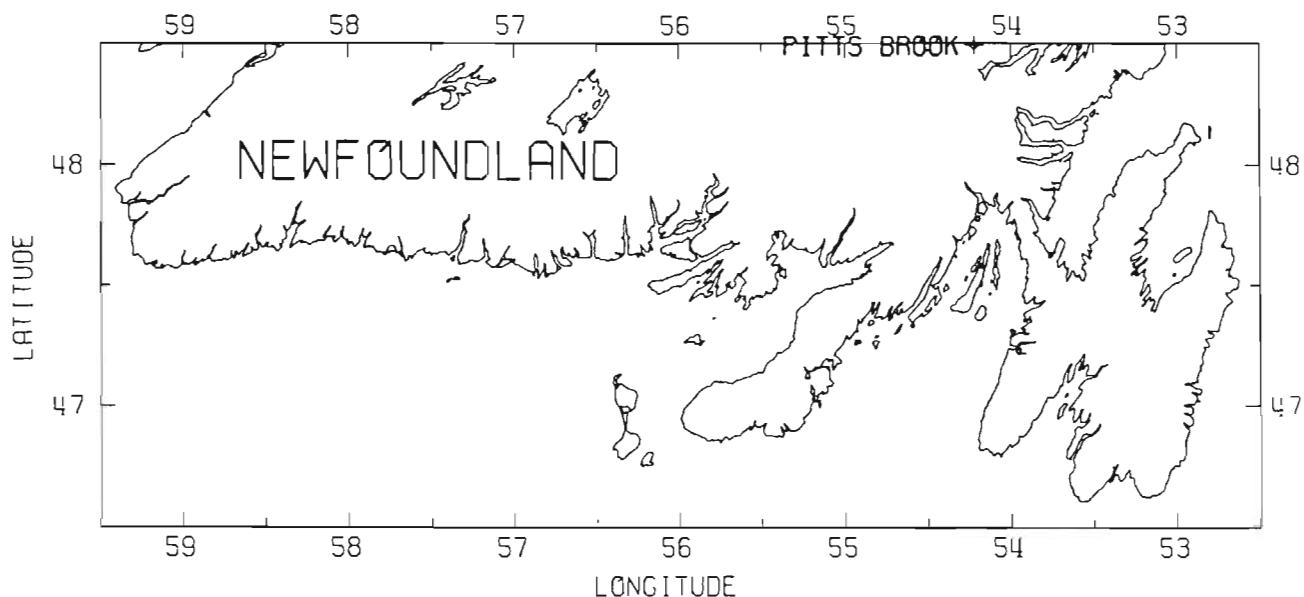
THERMOGRAPH DATA SUMMARY

STATION NAME: PITTS BROOK
STATION NUMBER: 147
INSTRUMENT TYPE: Seaman UTR-B (Hugrun)
INSTRUMENT S/N: 4330
LATITUDE: 48.49° N
LONGITUDE: 54.22° W
INSTRUMENT DEPTH: 3 m
WATER DEPTH: 12 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 22-JUN-1993 13:00 GMT
RECOVERY DATE/TIME: 4-SEP-1993 07:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1993	9.20	176	12.35	180	9.99	0.77	89.9	53.9	203
JUL-1993	10.25	182	16.15	212	12.55	1.34	389.1	265.1	744
AUG-1993	12.45	215	19.50	226	15.81	1.48	490.0	366.0	744
SEP-1993	13.65	244	15.20	246	14.37	0.35	57.8	41.8	80
Total Period	9.20	176	19.50	226	13.71	2.40	1026.8	726.8	1771

446



Start: 22-JUN-1993

End: 4-SEP-1993

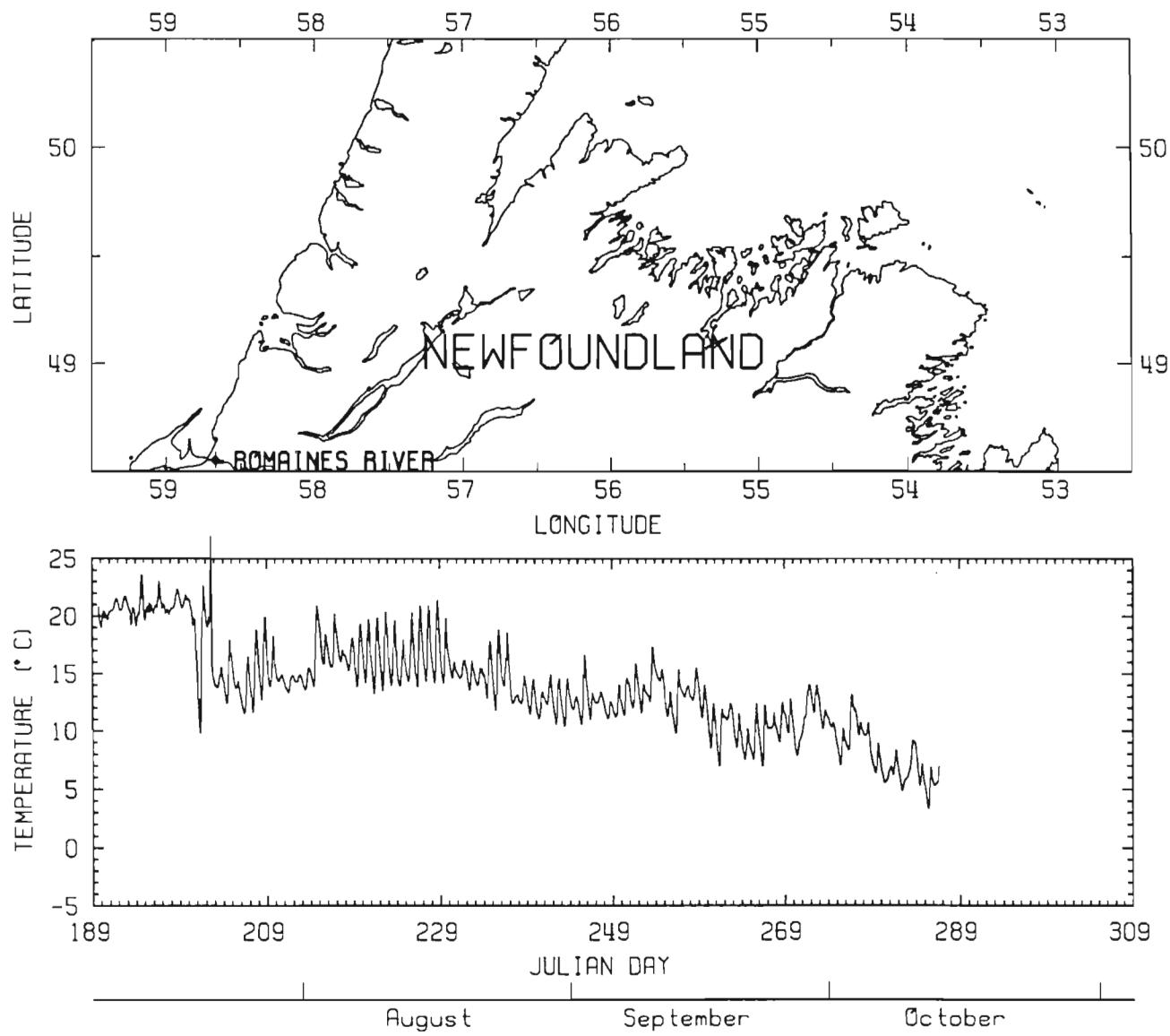
THERMOGRAPH DATA SUMMARY

STATION NAME: ROMAINES RIVER
STATION NUMBER: 184
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 6600
LATITUDE: 48.55° N
LONGITUDE: 58.67° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 8-JUL-1993 18:00 GMT
RECOVERY DATE/TIME: 13-OCT-1993 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-1993	9.80	201	26.90	202	17.85	3.43	429.9	333.9	558
AUG-1993	10.40	243	21.40	228	15.41	2.25	477.6	353.6	744
SEP-1993	6.90	261	17.30	253	11.83	1.98	355.0	235.0	720
OCT-1993	3.30	285	13.20	276	7.80	2.12	100.8	48.8	305
Total Period	3.30	285	26.90	202	13.89	4.11	1363.4	971.4	2327

448



Start: 8-JUL-1993

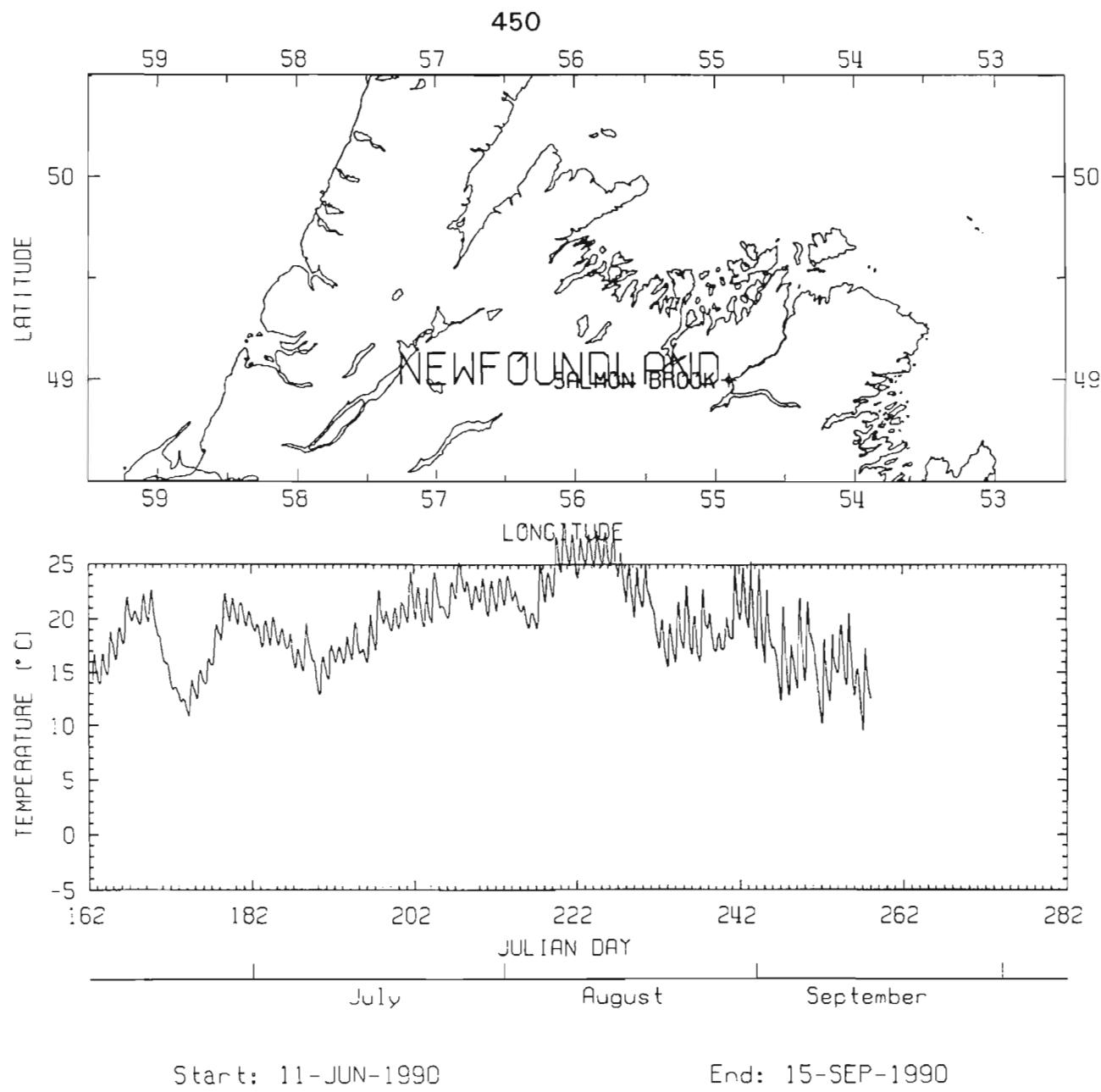
End: 13-OCT-1993

THERMOGRAPH DATA SUMMARY

STATION NAME: SALMON BROOK
STATION NUMBER: 152
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 63350
LATITUDE: 49.00° N
LONGITUDE: 54.90° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 11-JUN-1990 12:30 GMT
RECOVERY DATE/TIME: 15-SEP-1990 04:14 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1990	10.87	174	22.64	169	17.41	3.12	347.4	267.4	235
JUL-1990	12.88	190	25.24	207	19.52	2.65	604.3	480.3	374
AUG-1990	15.47	233	28.78	220	22.02	3.20	683.3	559.3	381
SEP-1990	9.54	257	24.66	244	16.28	3.01	241.0	181.0	183
Total Period	9.54	257	28.78	220	19.40	3.67	1875.9	1487.9	1173



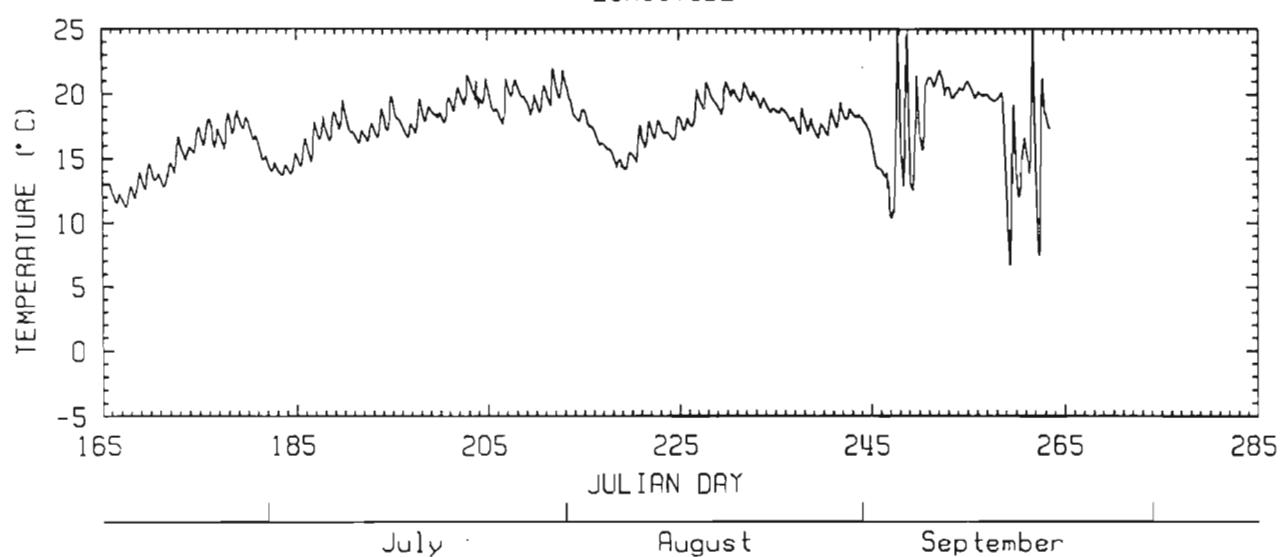
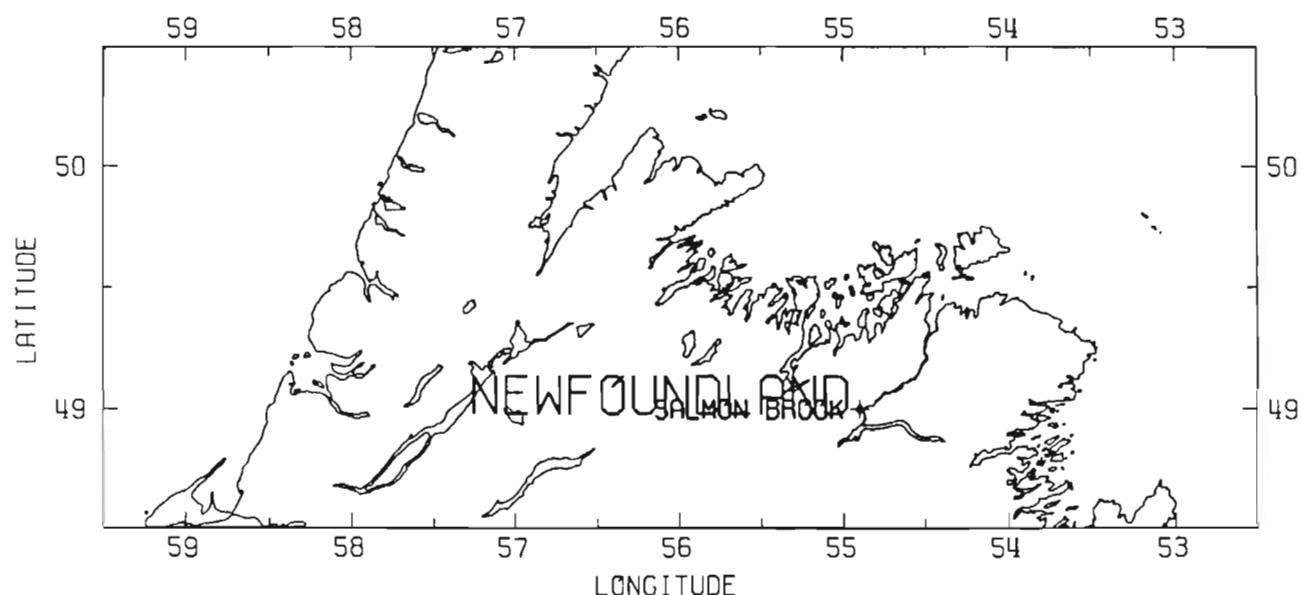
THERMOGRAPH DATA SUMMARY

STATION NAME: SALMON BROOK
STATION NUMBER: 152
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 6646
LATITUDE: 49.00° N
LONGITUDE: 54.90° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 14-JUN-1991 17:00 GMT
RECOVERY DATE/TIME: 20-SEP-1991 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1991	11.20	167	18.70	178	15.08	2.07	254.8	186.8	391
JUL-1991	13.70	183	22.00	211	18.06	1.94	559.8	435.8	744
AUG-1991	14.20	219	21.20	213	17.97	1.54	557.1	433.1	744
SEP-1991	6.70	259	25.20	247	17.58	3.68	351.6	271.6	471
Total Period	6.70	259	25.20	247	17.44	2.55	1723.3	1327.3	2350

452



Start: 14-JUN-1991

End: 20-SEP-1991

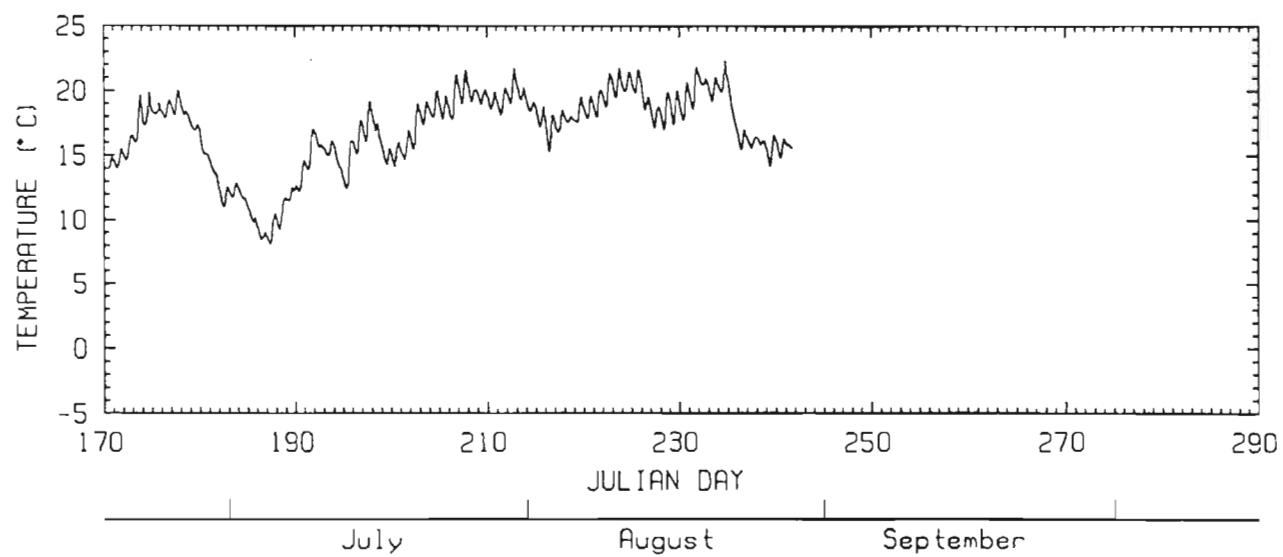
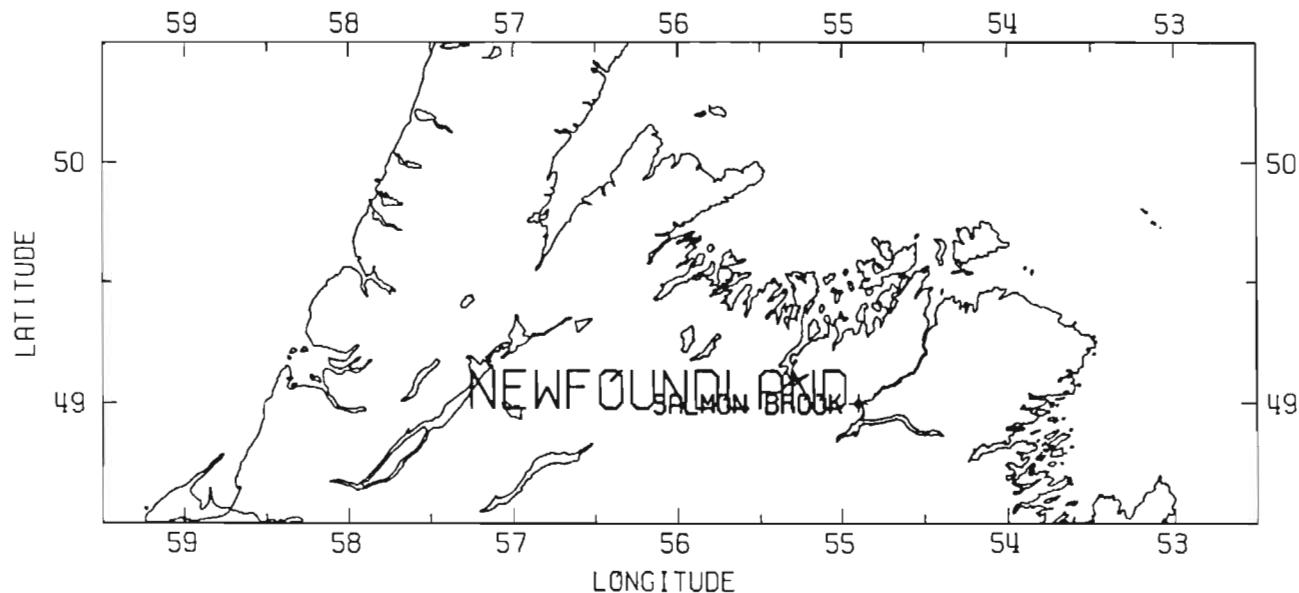
THERMOGRAPH DATA SUMMARY

STATION NAME: SALMON BROOK
STATION NUMBER: 152
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5456
LATITUDE: 49.00° N
LONGITUDE: 54.90° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 18-JUN-1992 16:00 GMT
RECOVERY DATE/TIME: 28-AUG-1992 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1992	11.00	182	20.00	177	16.45	2.26	212.6	160.6	296
JUL-1992	8.10	187	21.70	212	15.76	3.50	488.5	364.5	744
AUG-1992	14.20	239	22.30	234	18.44	1.80	515.8	403.8	667
Total Period	8.10	187	22.30	234	16.92	3.00	1216.8	928.8	1707

454



Start: 18-JUN-1992

End: 28-AUG-1992

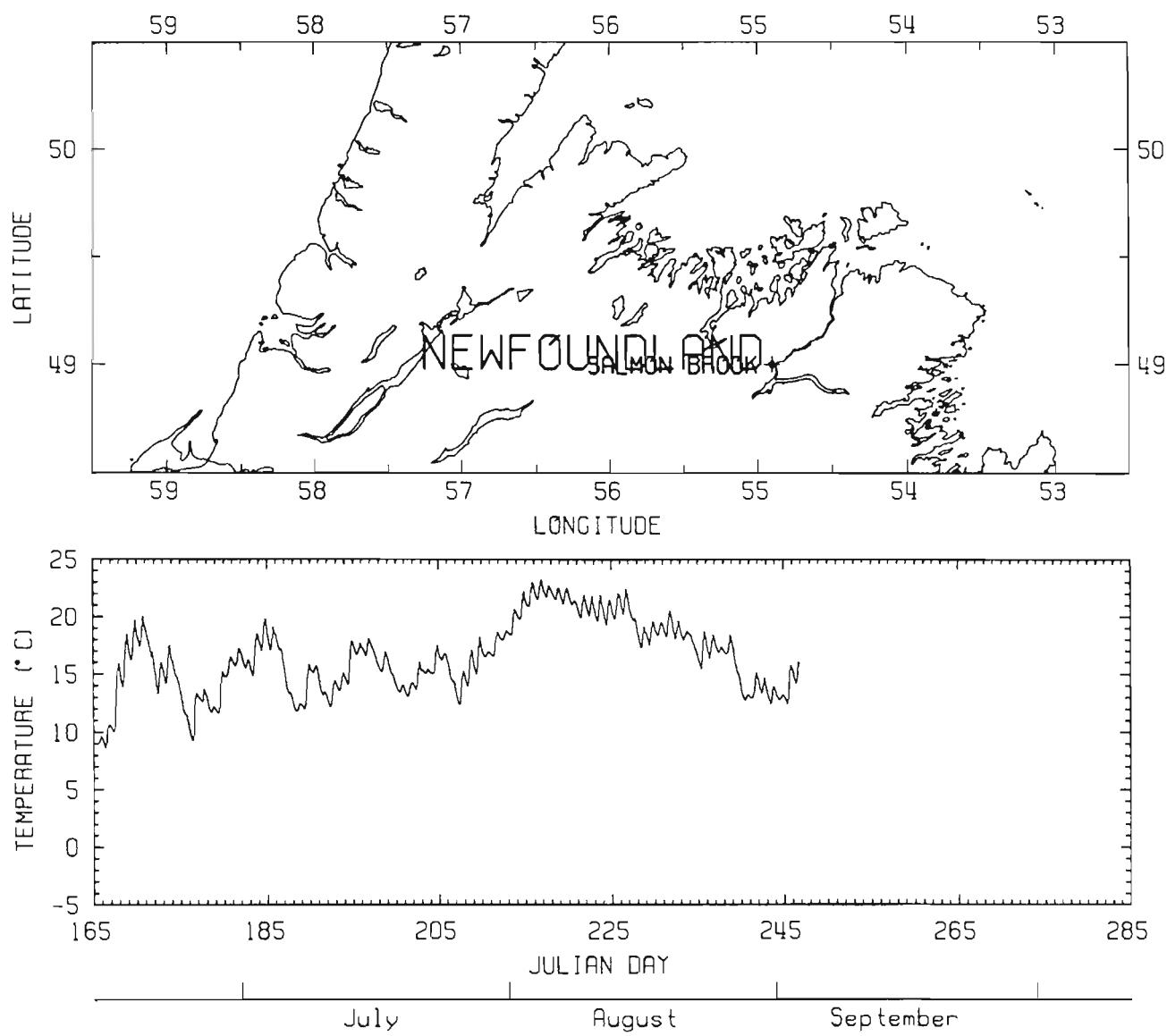
THERMOGRAPH DATA SUMMARY

STATION NAME: SALMON BROOK
STATION NUMBER: 152
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 6597
LATITUDE: 49.00° N
LONGITUDE: 54.90° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 14-JUN-1993 17:00 GMT
RECOVERY DATE/TIME: 3-SEP-1993 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-1993	8.60	166	20.00	170	14.23	2.81	238.5	170.5	391
JUL-1993	11.75	188	19.85	184	15.52	1.80	481.2	357.2	744
AUG-1993	12.40	243	23.25	216	18.86	2.75	584.6	460.6	744
SEP-1993	12.45	245	16.00	246	13.83	1.10	41.7	29.7	67
Total Period	8.60	166	23.25	216	16.48	3.09	1346.0	1018.0	1946

456



Start: 14-JUN-1993

End: 3-SEP-1993

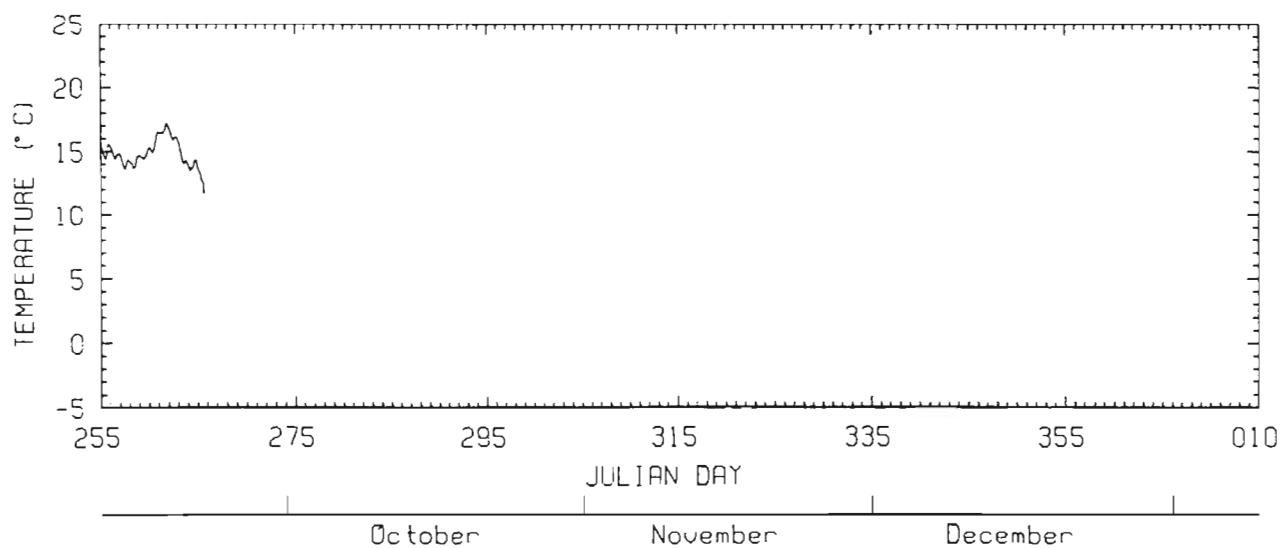
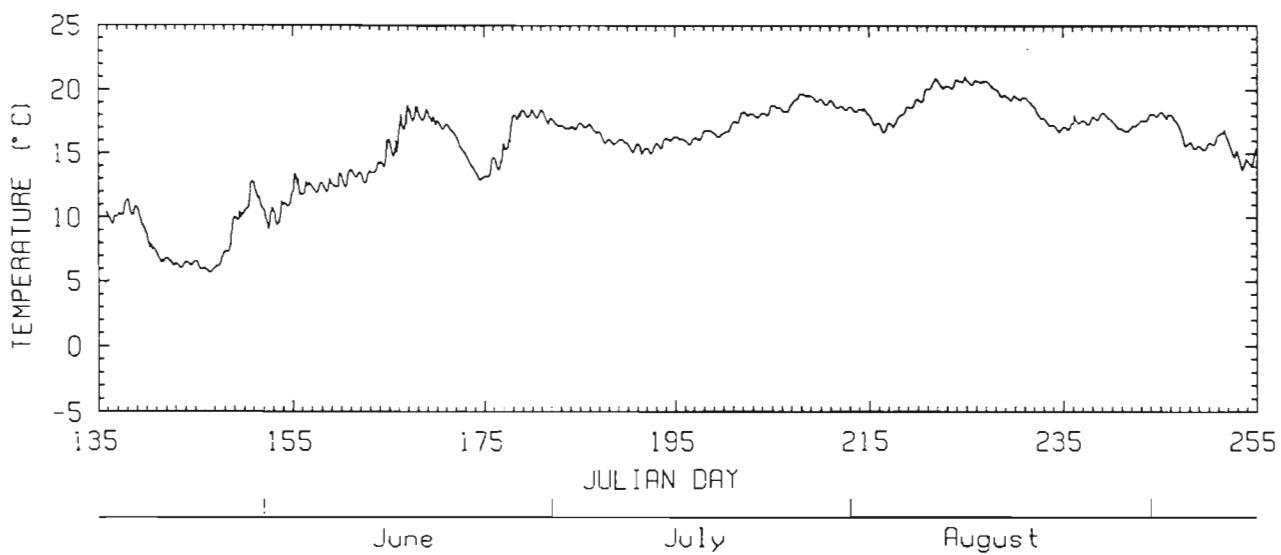
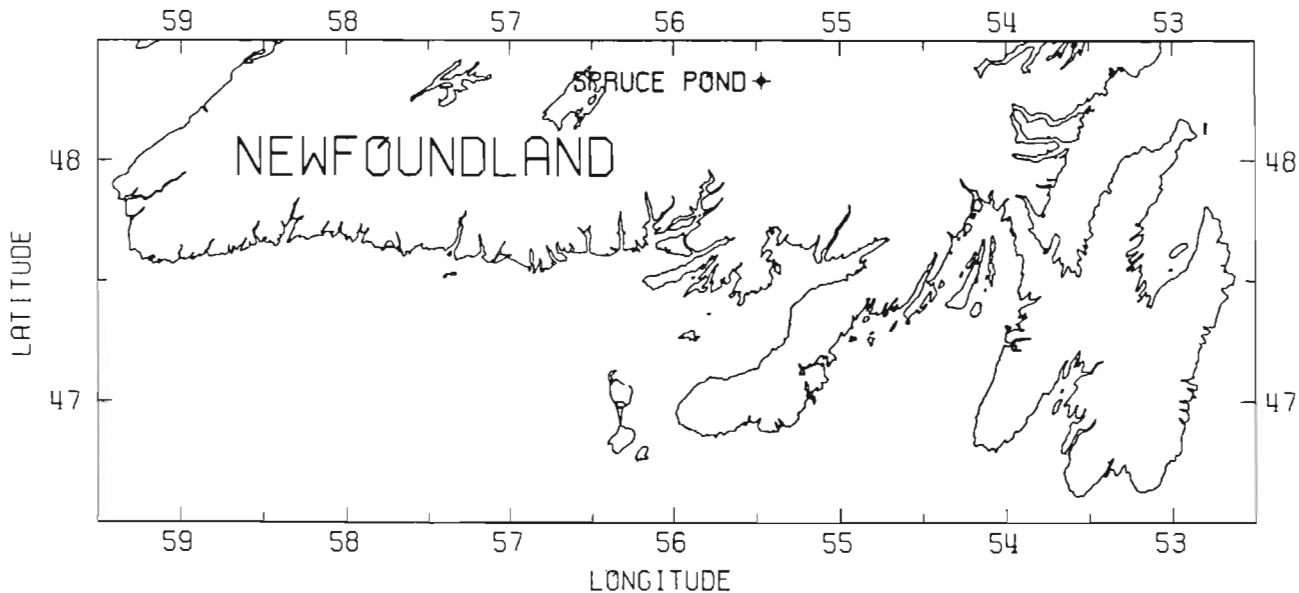
THERMOGRAPH DATA SUMMARY

STATION NAME: SPRUCE POND
STATION NUMBER: 123
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 5455
LATITUDE: 48.33° N
LONGITUDE: 55.47° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 2 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 15-MAY-1990 21:00 GMT
RECOVERY DATE/TIME: 22-SEP-1990 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1990	5.70	146	12.80	150	8.41	2.08	144.6	76.6	387
JUN-1990	9.10	152	18.80	166	14.70	2.56	441.0	321.0	720
JUL-1990	15.00	191	19.70	207	17.21	1.29	533.5	409.5	744
AUG-1990	16.70	216	21.10	224	18.58	1.32	576.1	452.1	744
SEP-1990	11.50	265	18.30	245	15.49	1.34	340.0	252.0	520
Total Period	5.70	146	21.10	224	15.58	3.54	2035.2	1511.2	3115

458



Start: 15-MAY-1990

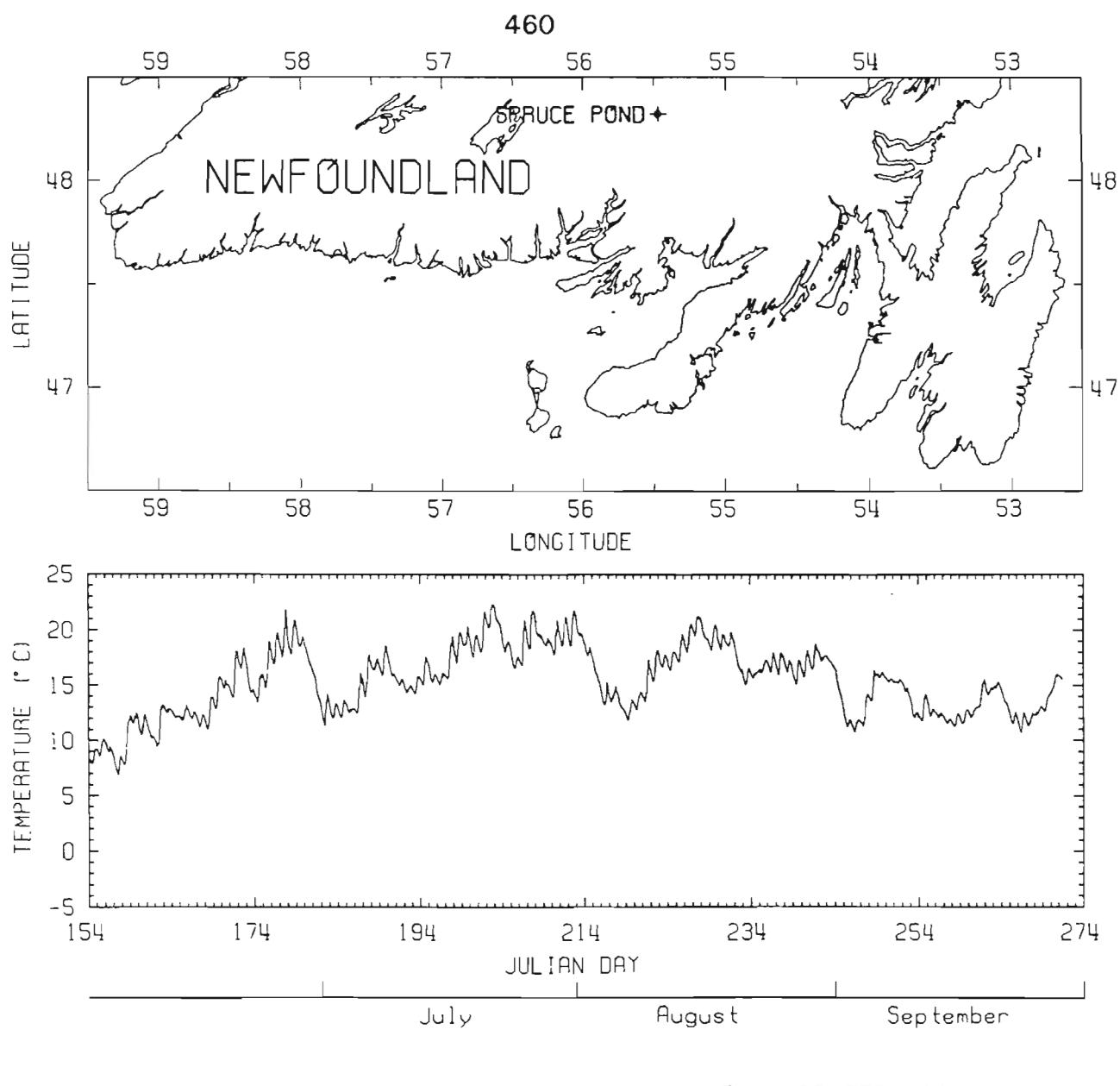
End: 22-SEP-1990

THERMOGRAPH DATA SUMMARY

STATION NAME: SPRUCE POND
STATION NUMBER: 123
INSTRUMENT TYPE: Ryan TempMentor
INSTRUMENT S/N: 900654
LATITUDE: 48.32° N
LONGITUDE: 55.47° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 3-JUN-1991 00:15 GMT
RECOVERY DATE/TIME: 28-SEP-1991 12:15 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1991	6.80	157	21.90	177	13.55	3.46	379.5	267.5	672
JUL-1991	11.30	182	22.30	202	17.11	2.64	530.3	406.3	744
AUG-1991	11.80	219	21.40	213	16.93	2.07	524.8	400.8	744
SEP-1991	10.60	266	16.50	244	13.36	1.53	375.1	263.1	661
Total Period	6.80	157	22.30	202	15.33	3.09	1809.7	1337.7	2821



Start: 3-JUN-1991

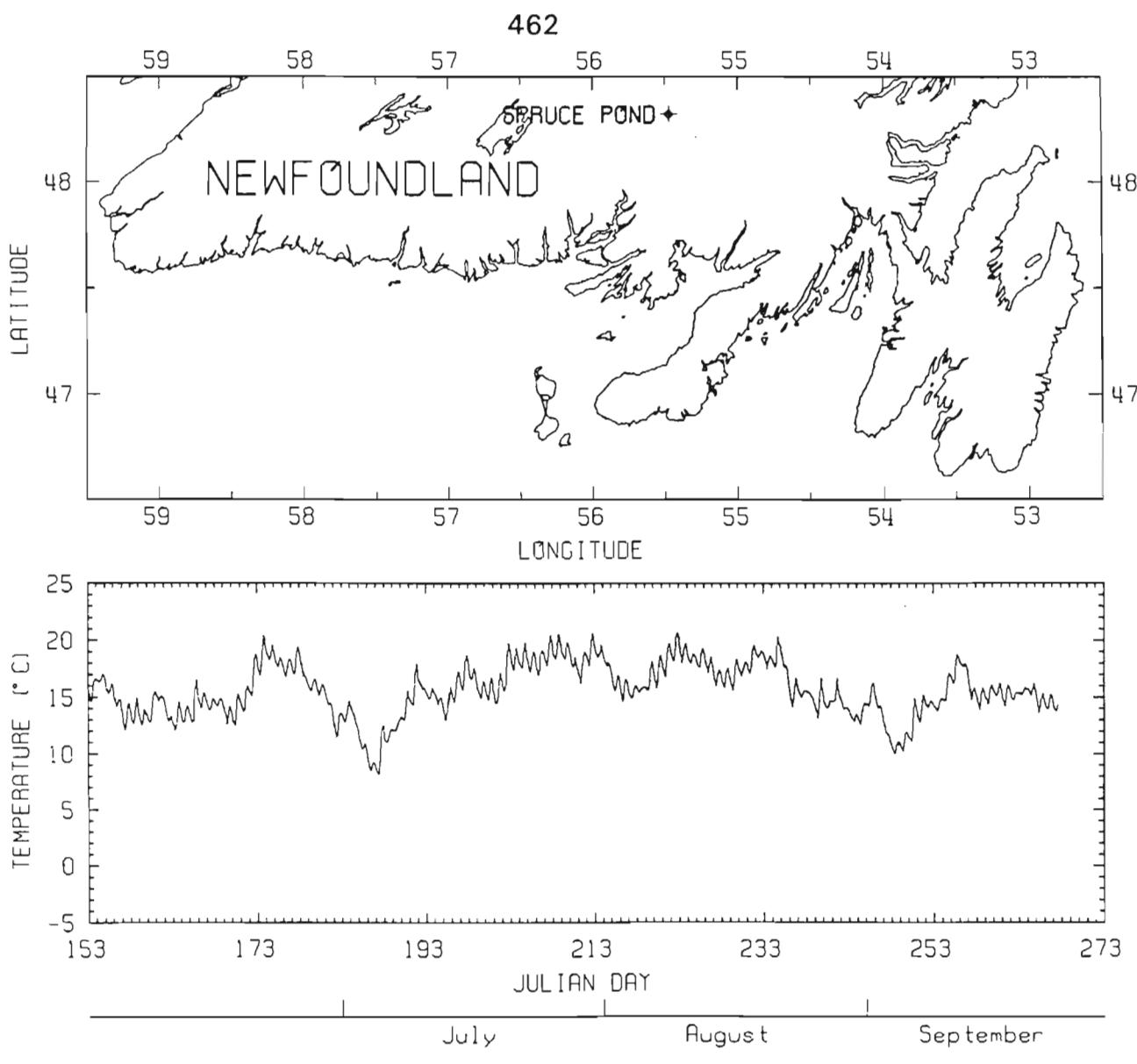
End: 28-SEP-1991

THERMOGRAPH DATA SUMMARY

STATION NAME: SPRUCE POND
STATION NUMBER: 123
INSTRUMENT TYPE: Ryan TempMentor
INSTRUMENT S/N: 900654
LATITUDE: 48.32° N
LONGITUDE: 55.47° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 1-JUN-1992 00:20 GMT
RECOVERY DATE/TIME: 23-SEP-1992 15:20 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1992	11.40	182	20.50	173	15.20	1.91	456.1	336.1	720
JUL-1992	8.20	187	20.70	212	15.77	2.93	488.9	364.9	744
AUG-1992	12.60	244	20.70	222	16.72	1.80	518.3	394.3	744
SEP-1992	10.00	248	18.70	255	14.59	1.80	335.3	243.3	544
Total Period	8.20	187	20.70	212	15.65	2.32	1798.7	1338.7	2752



Start: 1-JUN-1992

End: 23-SEP-1992

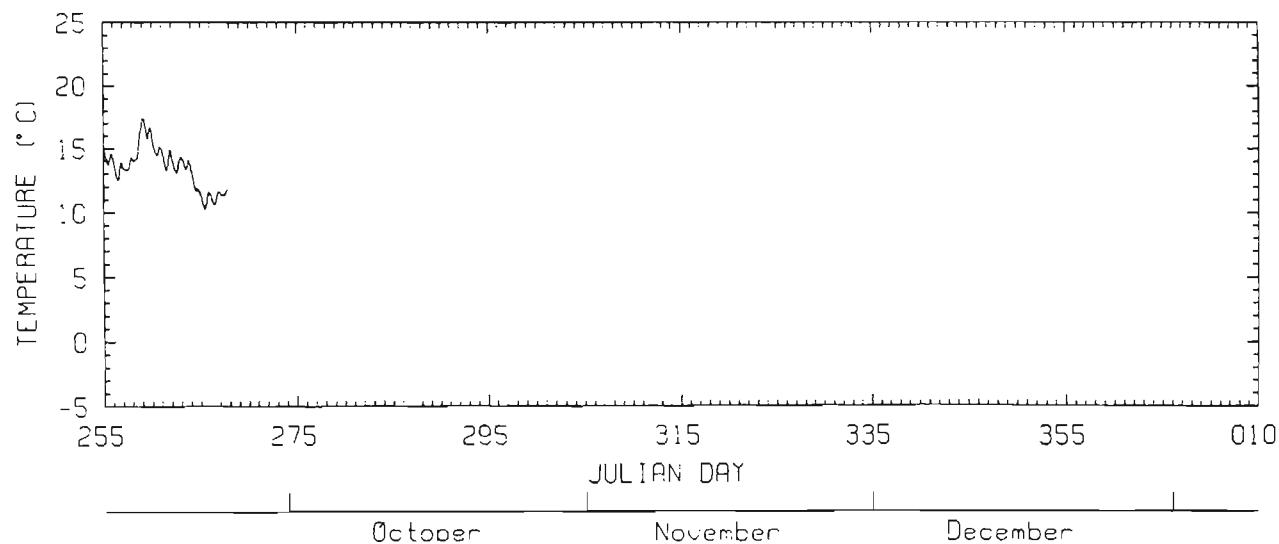
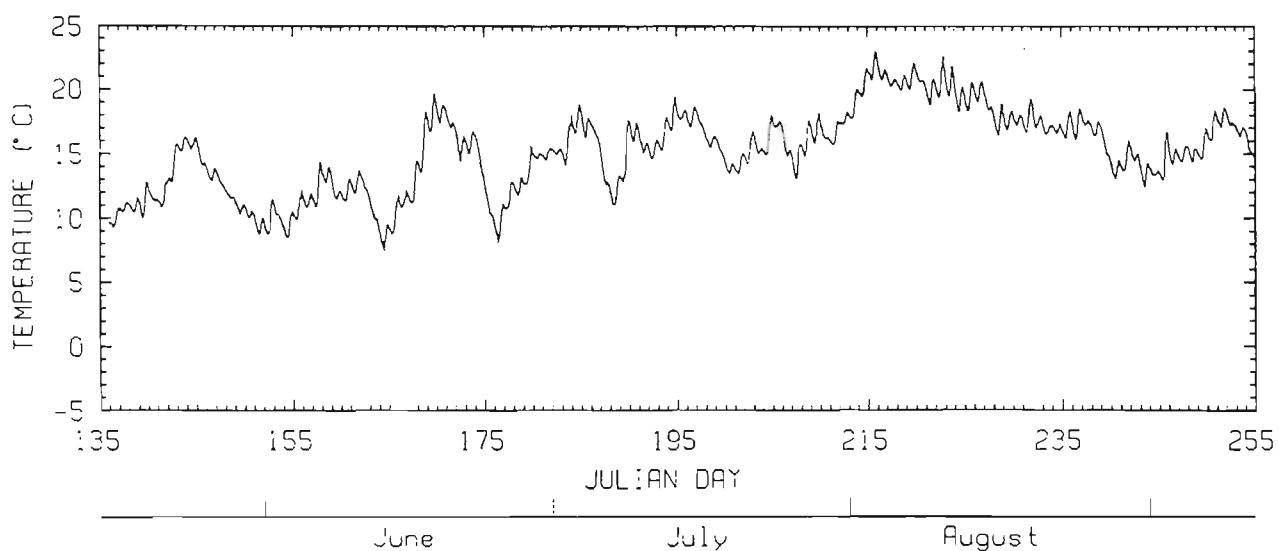
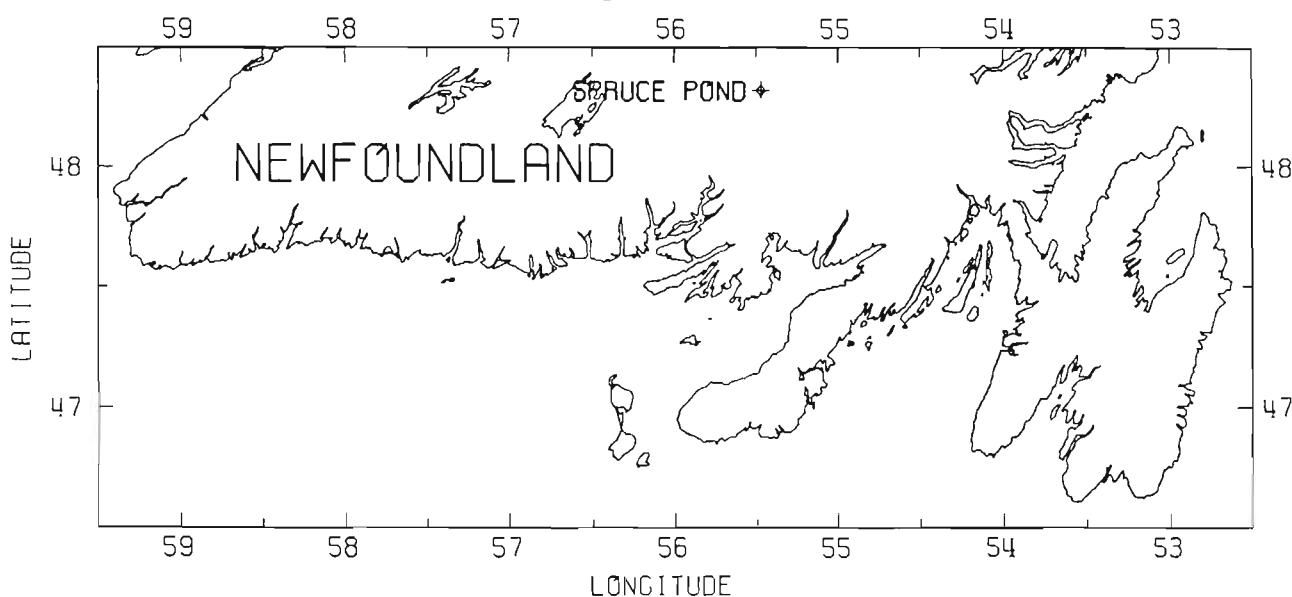
THERMOGRAPH DATA SUMMARY

STATION NAME: SPRUCE POND
STATION NUMBER: 123
INSTRUMENT TYPE: Ryan TempMentor
INSTRUMENT S/N: 900655
LATITUDE: 48.32° N
LONGITUDE: 55.47° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 15-MAY-1993 22:11 GMT
RECOVERY DATE/TIME: 24-SEP-1993 19:11 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1993	8.80	151	16.30	143	12.15	2.00	204.3	136.3	386
JUN-1993	7.50	164	19.70	169	12.70	2.72	381.0	261.0	720
JUL-1993	11.10	188	19.40	194	15.93	1.60	493.7	369.7	744
AUG-1993	12.40	243	23.00	215	18.25	2.31	565.8	441.8	744
SEP-1993	10.30	265	18.60	251	14.50	1.92	347.5	251.5	572
Total Period	7.50	164	23.00	215	15.02	3.10	1992.2	1460.2	3166

464



Start: 15-MAY-1993

End: 24-SEP-1993

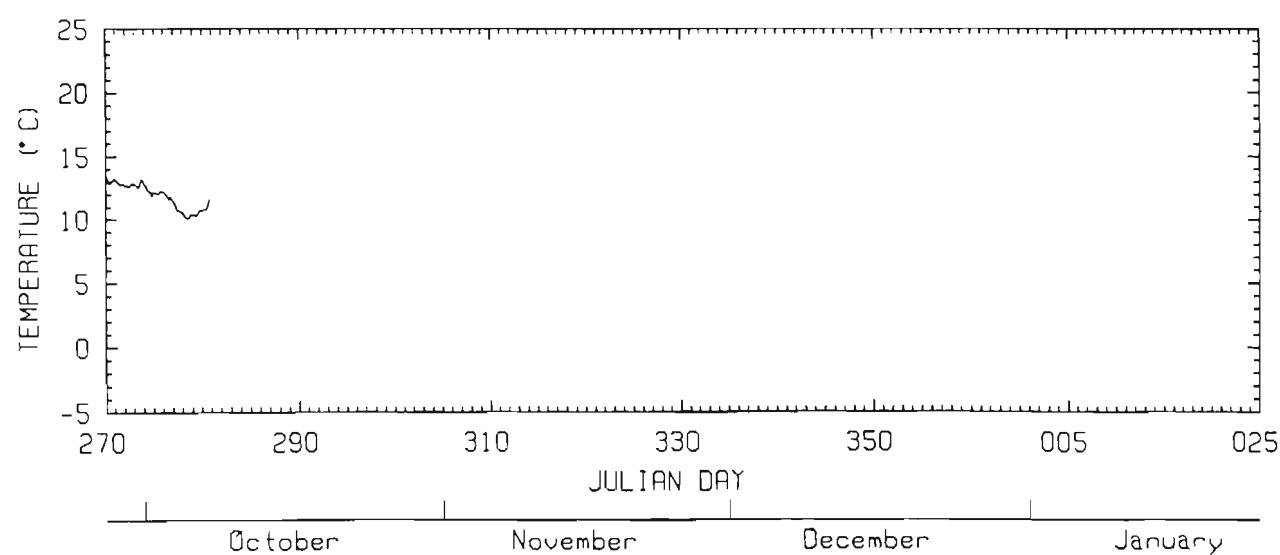
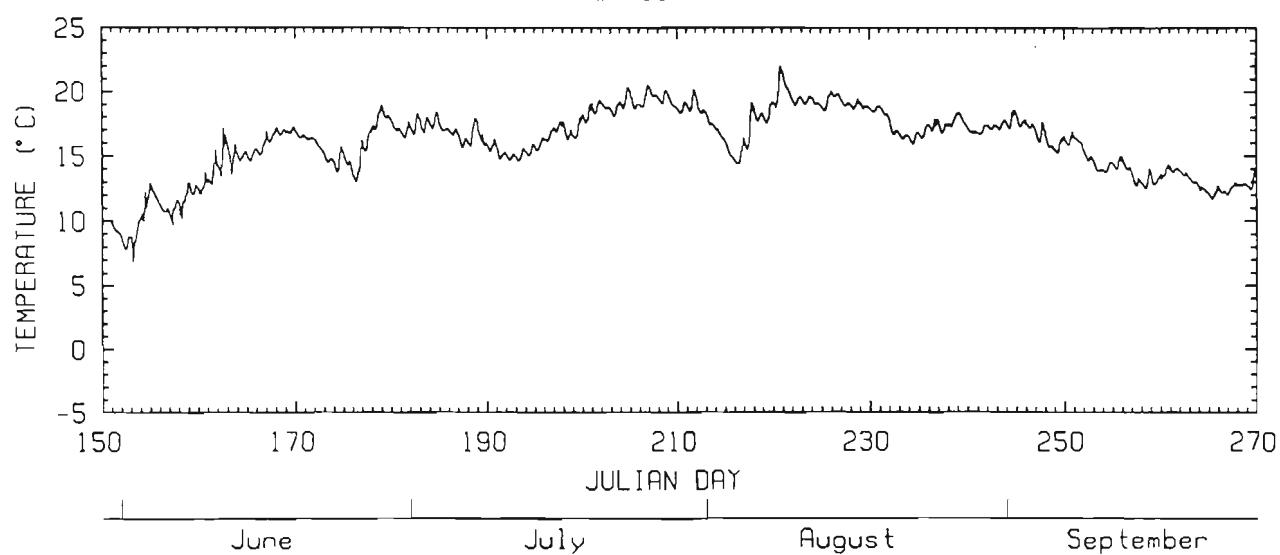
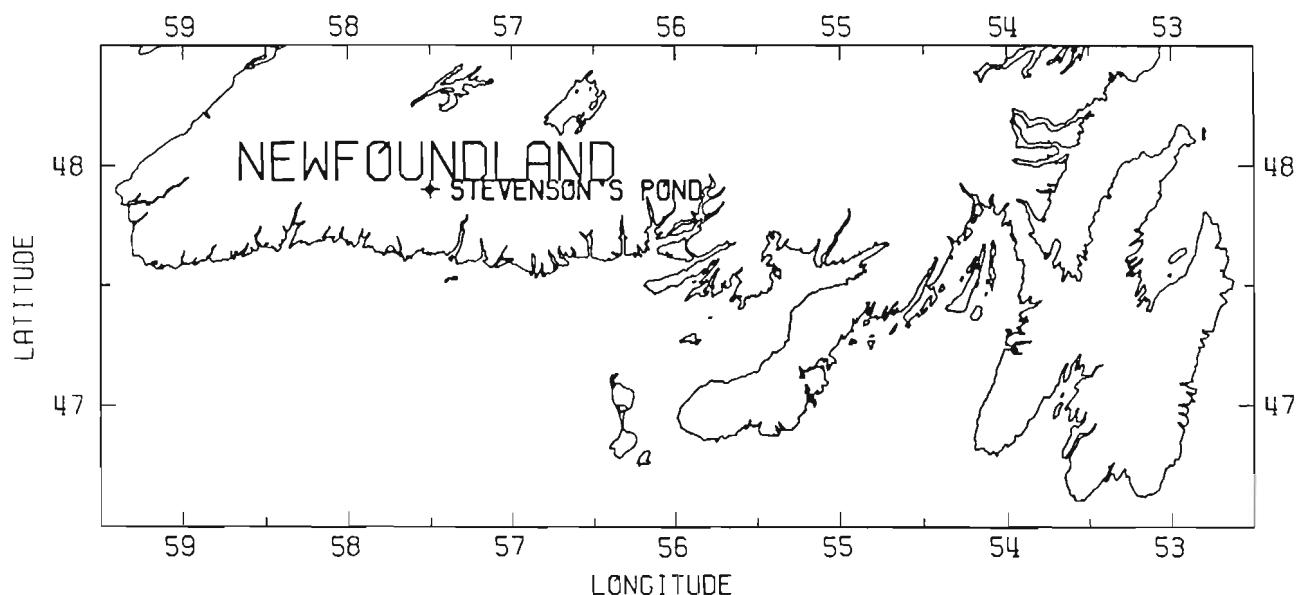
THERMOGRAPH DATA SUMMARY

STATION NAME: STEVENSON'S POND
STATION NUMBER: 136
INSTRUMENT TYPE: Seamon UTR-A (Hugrun)
INSTRUMENT S/N: 3216
LATITUDE: 47.90° N
LONGITUDE: 57.50° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 30-MAY-1990 22:00 GMT
RECOVERY DATE/TIME: 7-OCT-1990 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-1990	8.90	151	10.10	150	9.37	0.31	19.4	11.4	26
JUN-1990	6.80	153	18.90	179	14.33	2.63	430.0	310.0	720
JUL-1990	14.60	193	20.50	206	17.49	1.53	542.2	418.2	744
AUG-1990	14.40	216	22.00	220	17.85	1.38	553.4	429.4	744
SEP-1990	11.70	265	18.50	244	14.19	1.73	425.6	305.6	720
OCT-1990	10.10	278	12.80	274	11.28	0.80	78.9	50.9	163
Total Period	6.80	153	22.00	220	15.69	2.74	2049.6	1525.6	3117

466



Start: 30-MAY-1990

End: 7-OCT-1990

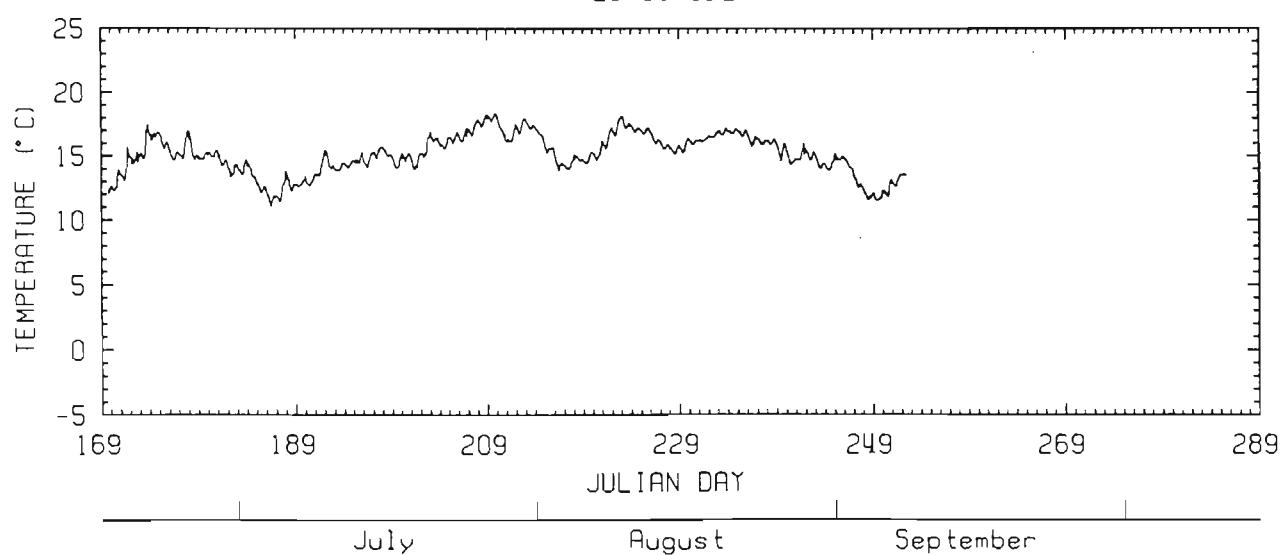
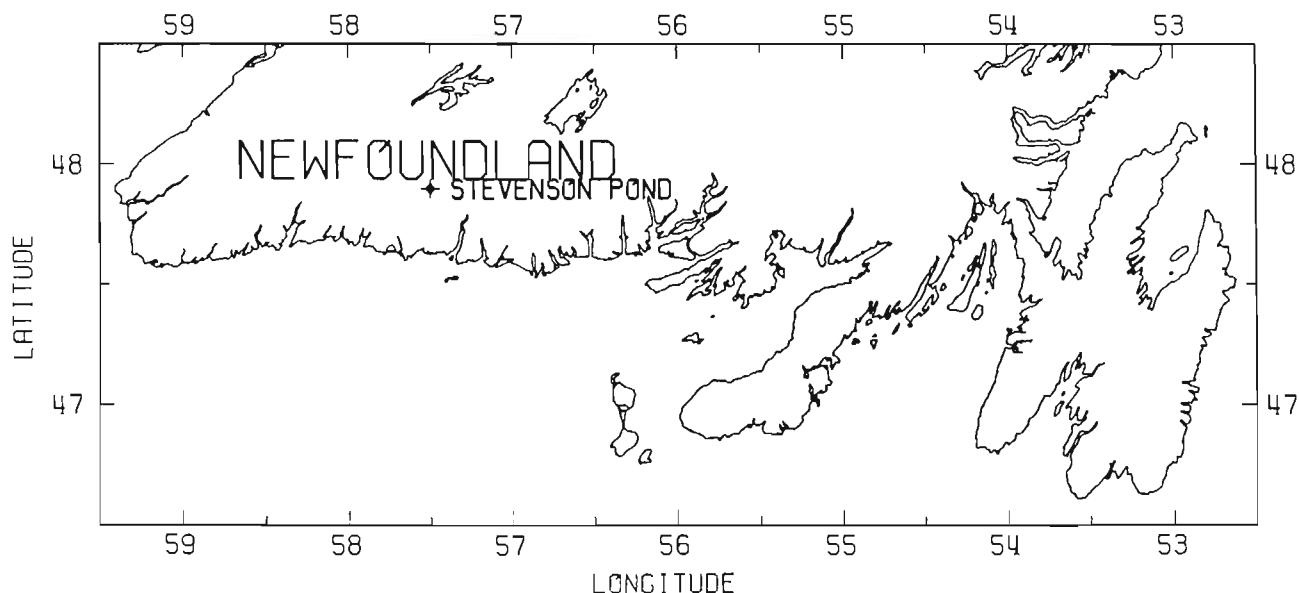
THERMOGRAPH DATA SUMMARY

STATION NAME: STEVENSON'S POND
STATION NUMBER: 136
INSTRUMENT TYPE: Ryan TempMentor
INSTRUMENT S/N: 900653
LATITUDE: 47.90° N
LONGITUDE: 57.50° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 3 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 17-JUN-1992 18:40 GMT
RECOVERY DATE/TIME: 8-SEP-1992 13:40 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1992	12.10	169	17.40	173	14.92	1.15	206.9	150.9	318
JUL-1992	11.00	186	18.40	209	15.01	1.77	465.3	341.3	744
AUG-1992	13.70	216	18.20	223	15.84	1.00	491.1	367.1	744
SEP-1992	11.50	249	15.30	245	13.04	1.11	104.5	72.5	182
Total Period	11.00	186	18.40	209	15.13	1.57	1267.8	931.8	1988

468



Start: 17-JUN-1992

End: 8-SEP-1992

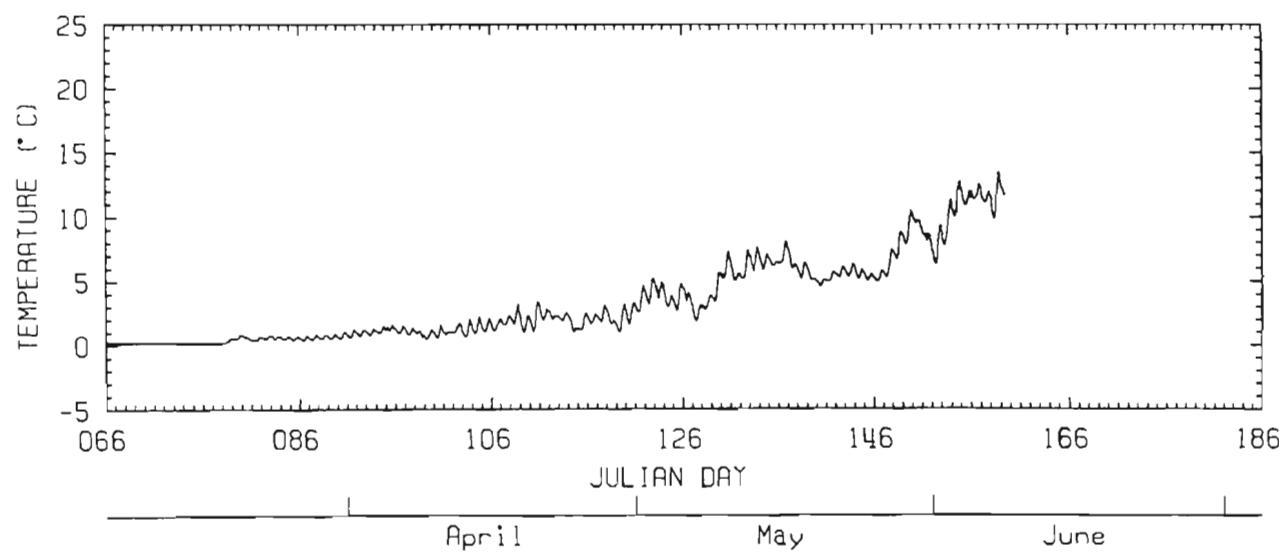
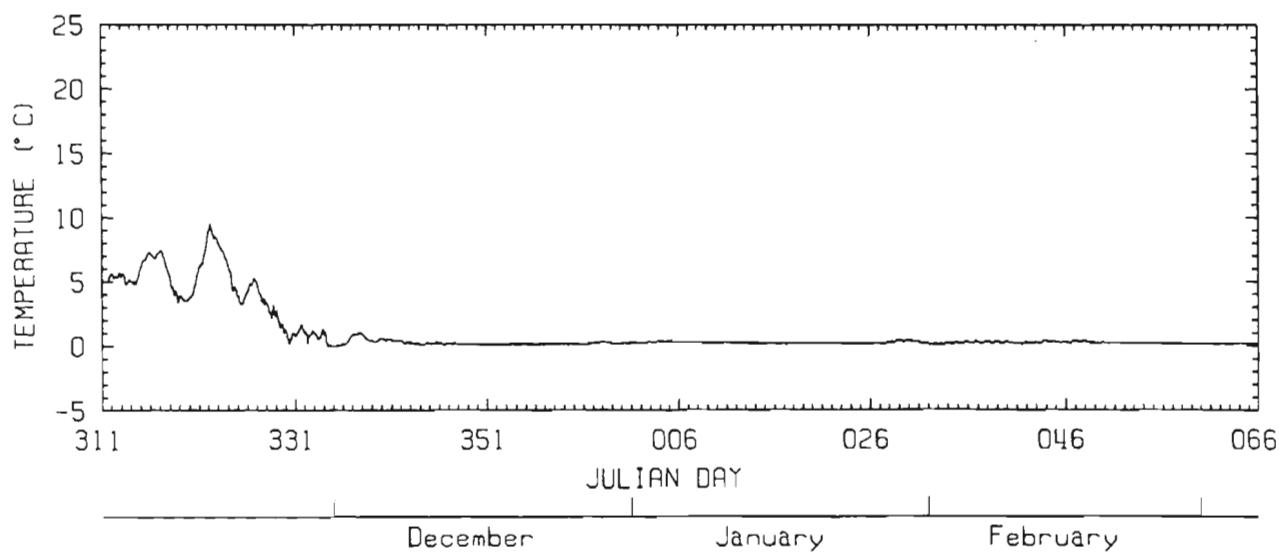
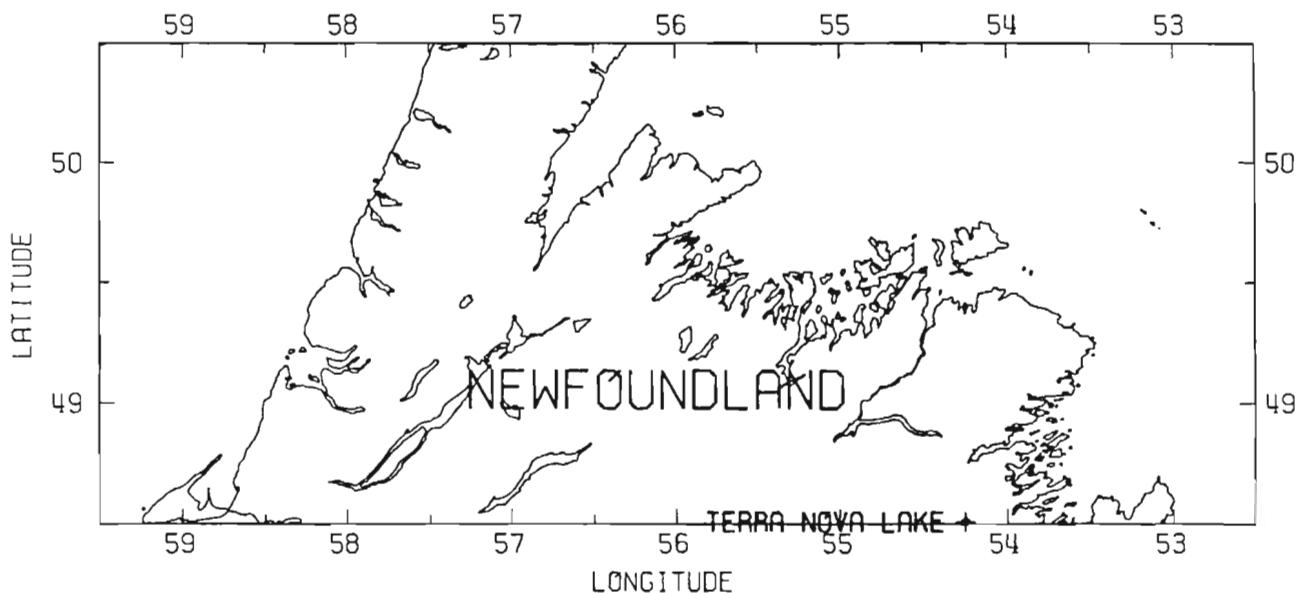
THERMOGRAPH DATA SUMMARY

STATION NAME: TERRA NOVA LAKE
STATION NUMBER: 144
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3266
LATITUDE: 48.51° N
LONGITUDE: 54.25° W
INSTRUMENT DEPTH: 4 m
WATER DEPTH: 4 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 7-NOV-1989 16:00 GMT
RECOVERY DATE/TIME: 8-JUN-1990 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
NOV-1989	-0.10	334	9.50	322	4.25	2.41	102.8	27.2	560
DEC-1989	0.00	335	1.00	337	0.23	0.19	7.2	0.0	744
JAN-1990	0.10	14	0.40	3	0.24	0.07	7.4	0.0	744
FEB-1990	0.10	32	0.40	35	0.23	0.07	6.3	0.0	672
MAR-1990	0.10	60	1.00	90	0.35	0.22	10.9	0.0	744
APR-1990	0.50	98	3.40	110	1.55	0.65	46.4	0.0	720
MAY-1990	1.90	127	10.50	149	5.58	1.72	172.9	52.8	744
JUN-1990	6.30	152	13.40	158	10.63	1.73	85.6	53.6	182
Total Period	-0.10	334	13.40	158	2.02	2.84	439.5	133.5	5110

470



Start: 7-NOV-1989

End: 8-JUN-1990

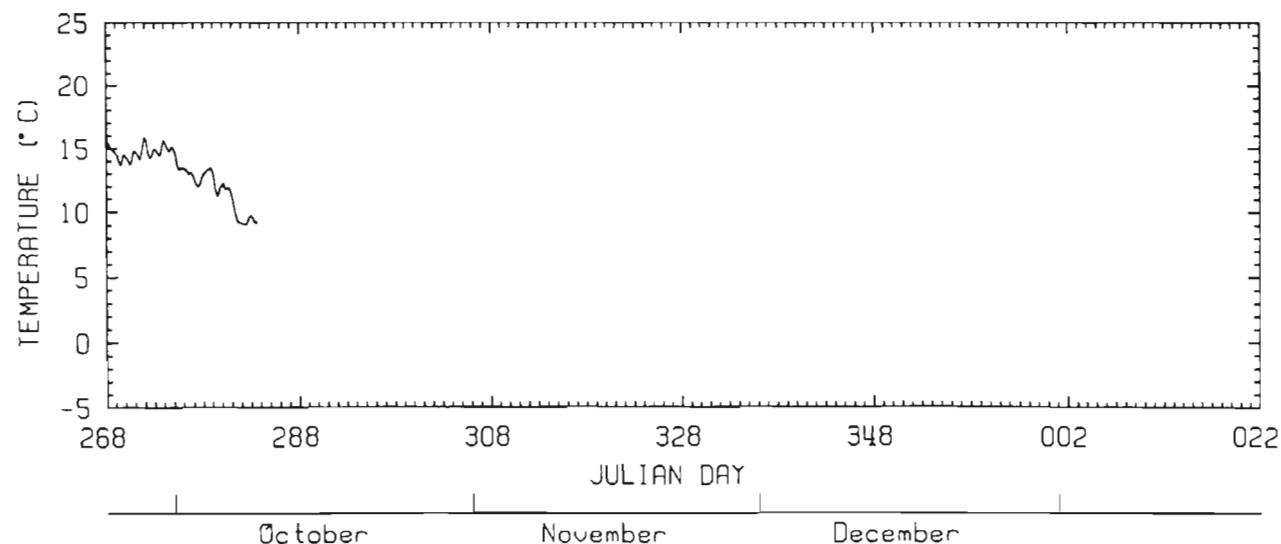
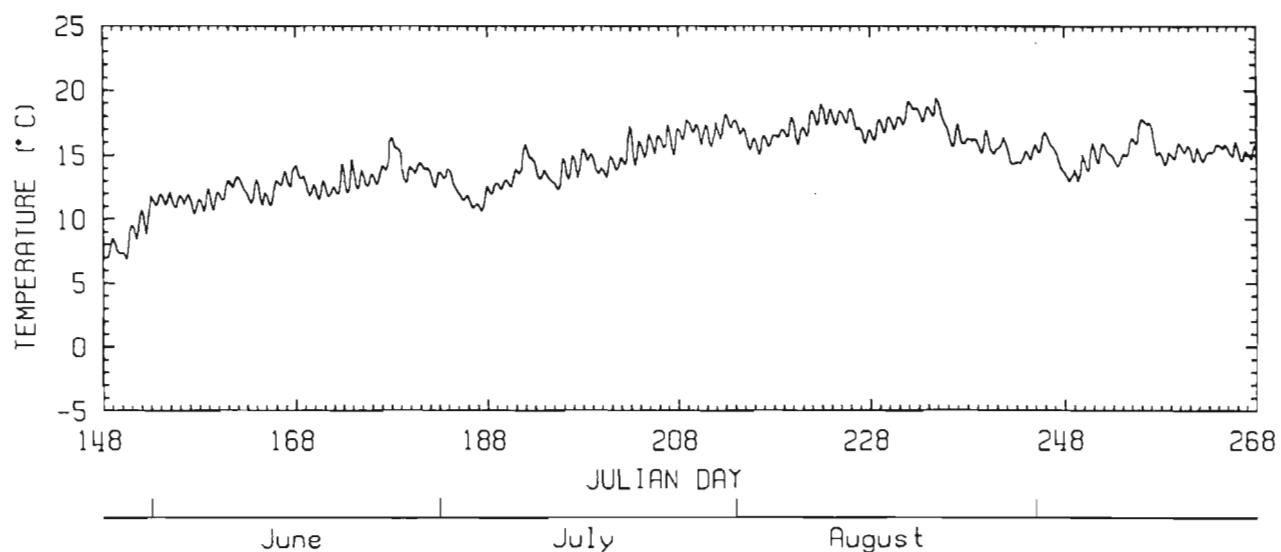
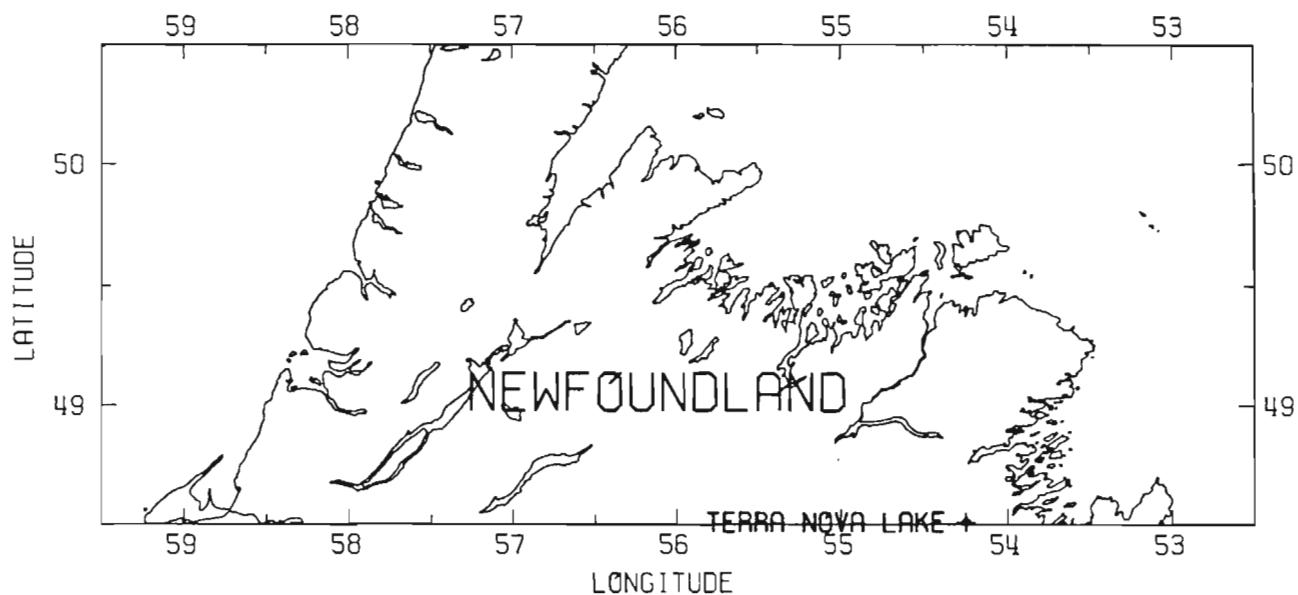
THERMOGRAPH DATA SUMMARY

STATION NAME: TERRA NOVA LAKE
STATION NUMBER: 144
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3263
LATITUDE: 48.51° N
LONGITUDE: 54.25° W
INSTRUMENT DEPTH: 4 m
WATER DEPTH: 4 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 27-MAY-1992 14:00 GMT
RECOVERY DATE/TIME: 9-OCT-1992 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1992	6.80	150	11.80	152	8.65	1.25	42.7	22.7	106
JUN-1992	10.40	157	16.30	177	12.64	1.17	379.2	259.2	720
JUL-1992	10.60	187	18.10	212	14.48	1.84	448.8	324.8	744
AUG-1992	14.30	242	19.40	234	16.83	1.17	521.7	397.7	744
SEP-1992	13.00	248	17.80	255	15.10	0.89	452.9	332.9	720
OCT-1992	9.10	282	14.80	275	11.73	1.64	104.7	68.7	208
Total Period	6.80	150	19.40	234	14.38	2.34	1950.1	1406.1	3242

472



Start: 27-MAY-1992

End: 9-OCT-1992

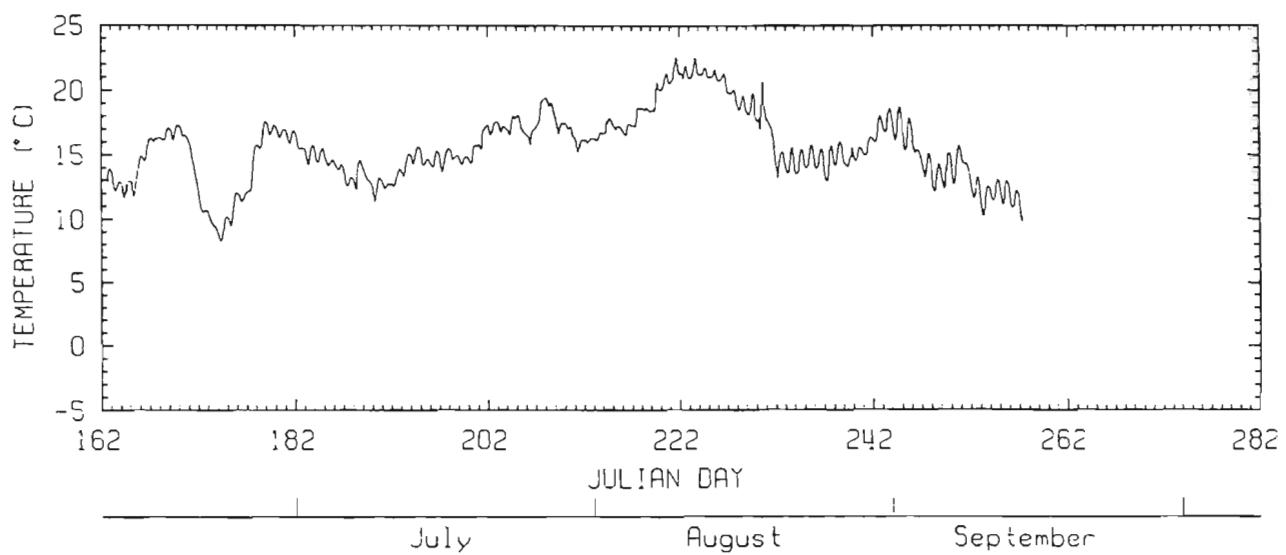
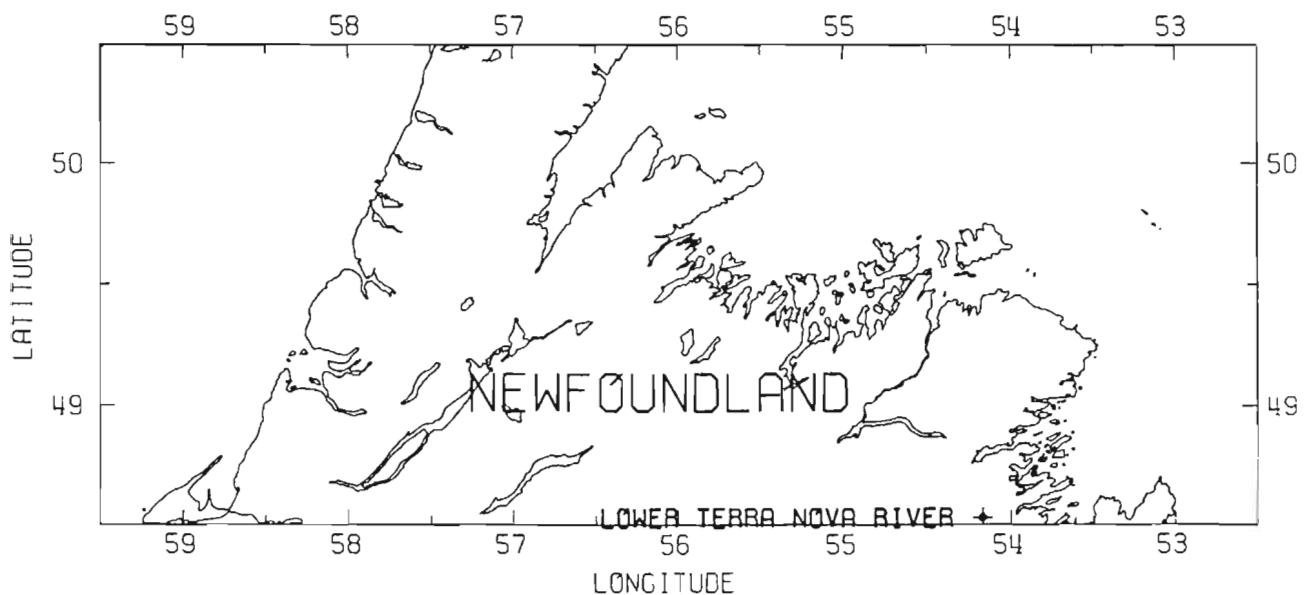
THERMOGRAPH DATA SUMMARY

STATION NAME: LOWER TERRA NOVA
STATION NUMBER: 115
INSTRUMENT TYPE: Ryan Thermograph (J-180)
INSTRUMENT S/N: 61524
LATITUDE: 48.53° N
LONGITUDE: 54.17° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 120 min.
DEPLOYMENT DATE/TIME: 11-JUN-1990 16:30 GMT
RECOVERY DATE/TIME: 14-SEP-1990 08:09 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1990	8.25	174	17.56	179	13.95	2.55	279.9	199.9	326
JUL-1990	11.33	190	19.46	208	15.32	1.78	475.6	351.6	360
AUG-1990	12.91	237	22.59	221	17.53	2.53	547.6	423.6	342
SEP-1990	9.75	257	18.75	244	13.73	2.09	189.2	133.2	179
Total Period	8.25	174	22.59	221	15.34	2.73	1492.3	1108.3	1207

474



Start: 11-JUN-1990

End: 14-SEP-1990

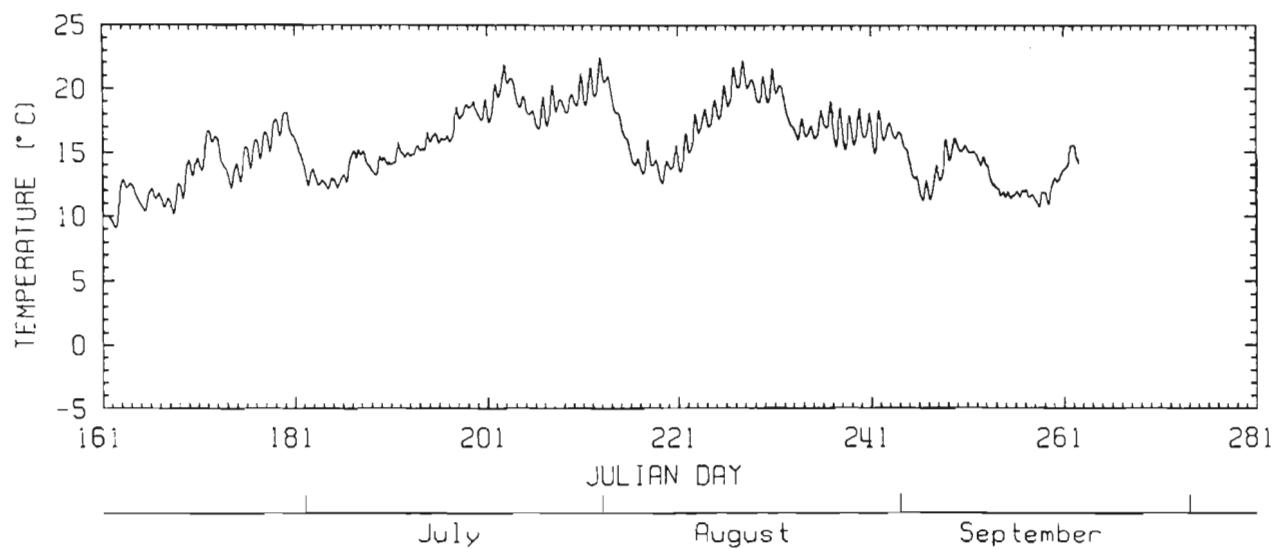
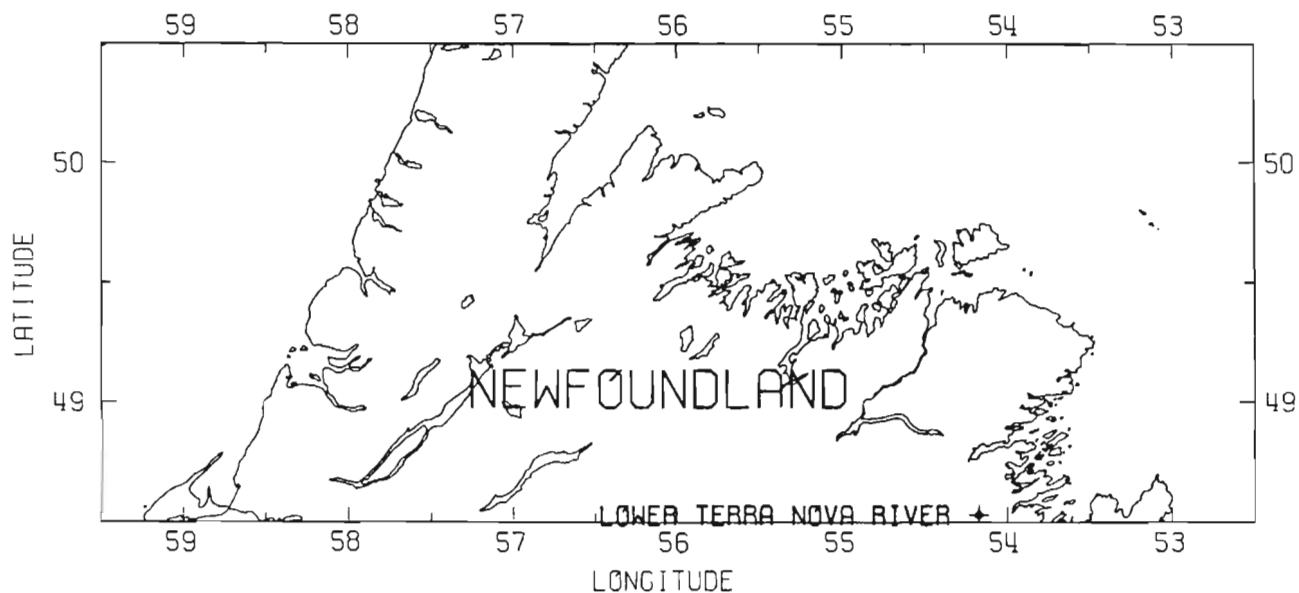
THERMOGRAPH DATA SUMMARY

STATION NAME: LOWER TERRA NOVA RIVER
STATION NUMBER: 115
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 6642
LATITUDE: 48.53° N
LONGITUDE: 54.17° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 10-JUN-1991 16:00 GMT
RECOVERY DATE/TIME: 19-SEP-1991 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-1991	9.10	162	18.10	179	13.62	2.26	283.5	199.5	488
JUL-1991	12.10	184	22.50	212	16.65	2.63	516.0	392.0	744
AUG-1991	12.60	219	22.20	227	17.21	2.18	533.6	409.6	744
SEP-1991	10.70	258	16.60	244	13.27	1.56	252.8	176.8	447
Total Period	9.10	162	22.50	212	15.59	2.82	1585.9	1177.9	2423

476



Start: 10-JUN-1991

End: 19-SEP-1991

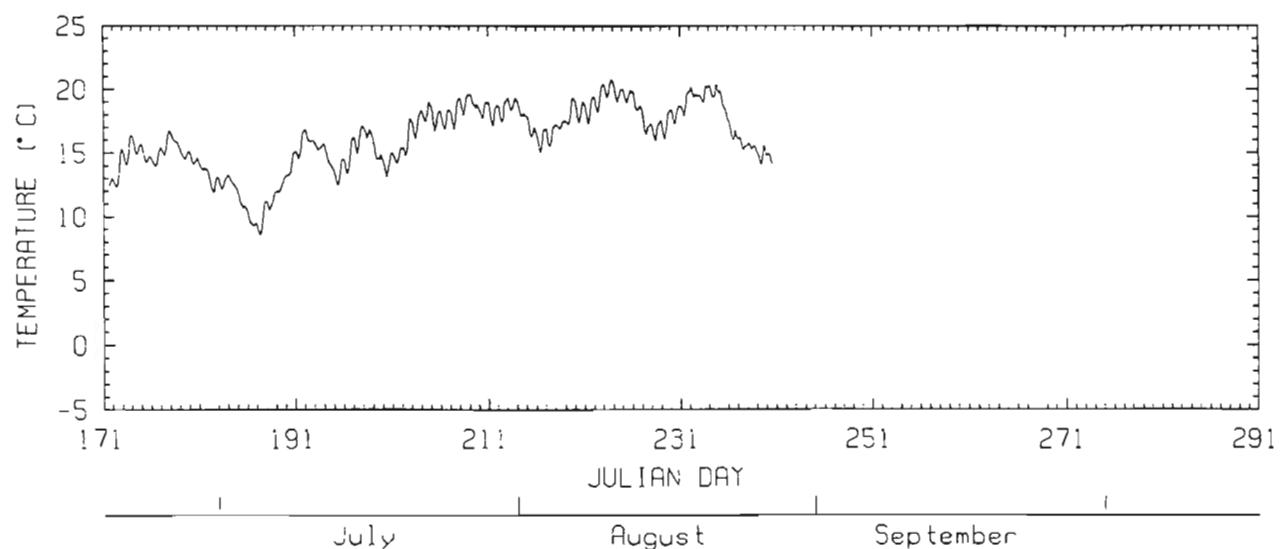
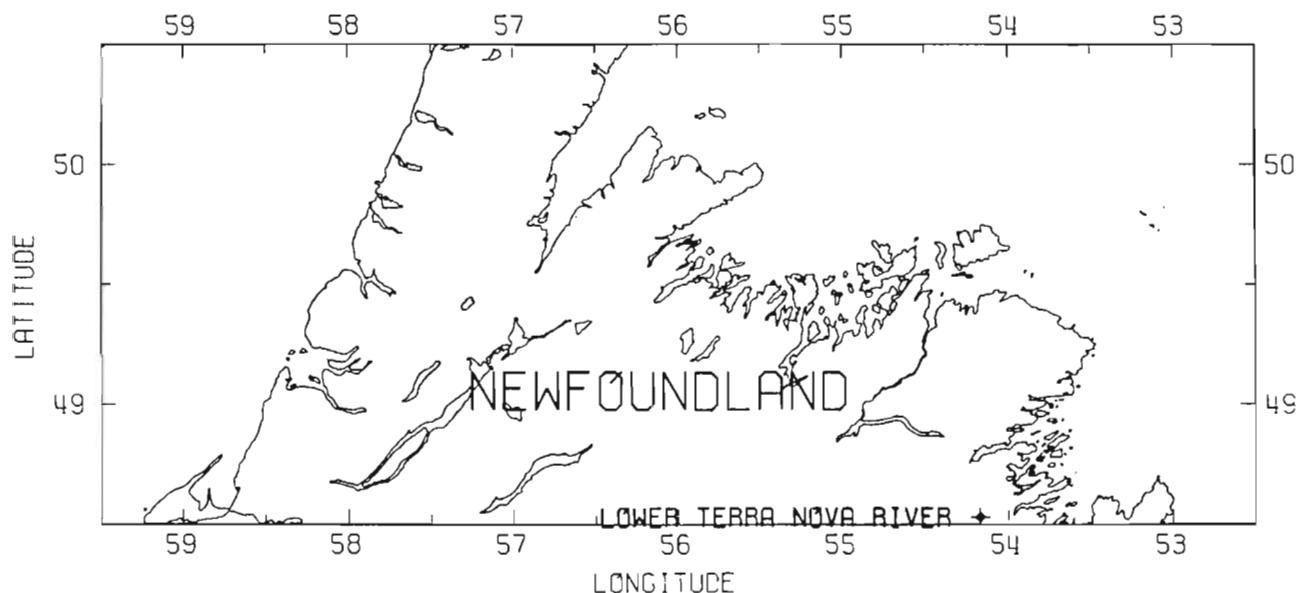
THERMOGRAPH DATA SUMMARY

STATION NAME: LOWER TERRA NOVA RIVER
STATION NUMBER: 115
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 3260
LATITUDE: 48.53° N
LONGITUDE: 54.17° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 19-JUN-1992 14:00 GMT
RECOVERY DATE/TIME: 27-AUG-1992 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1992	11.90	182	16.70	177	14.51	1.15	173.1	125.1	274
JUL-1992	8.60	187	19.60	208	15.31	2.80	474.6	350.6	744
AUG-1992	14.00	239	20.80	223	17.84	1.63	480.5	372.5	640
Total Period	8.60	187	20.80	223	16.15	2.57	1128.1	848.1	1658

478



Start: 19-JUN-1992

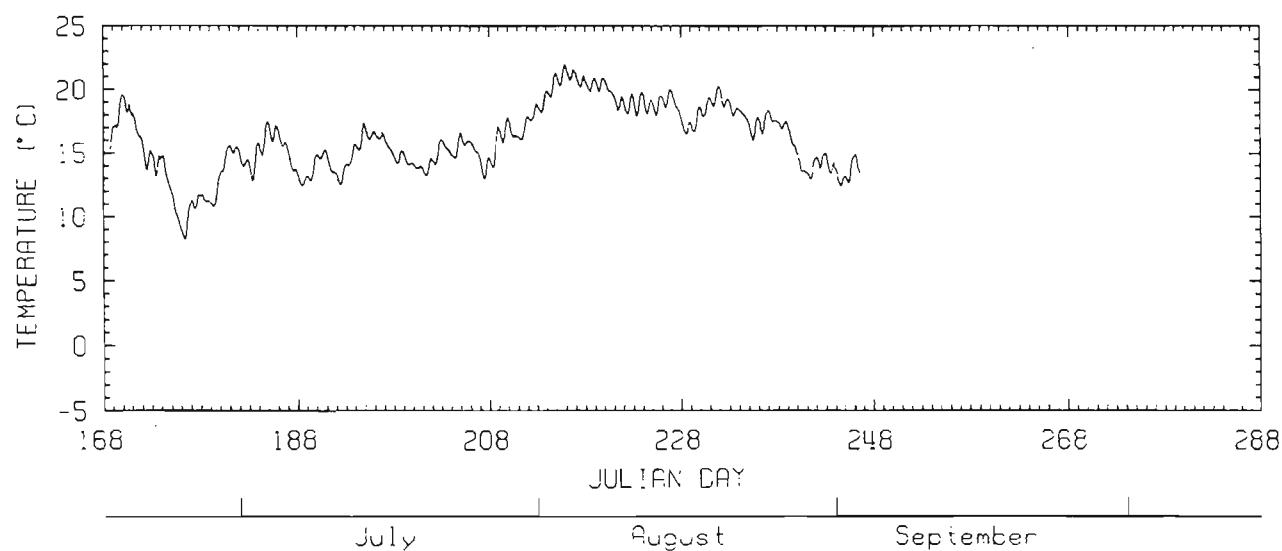
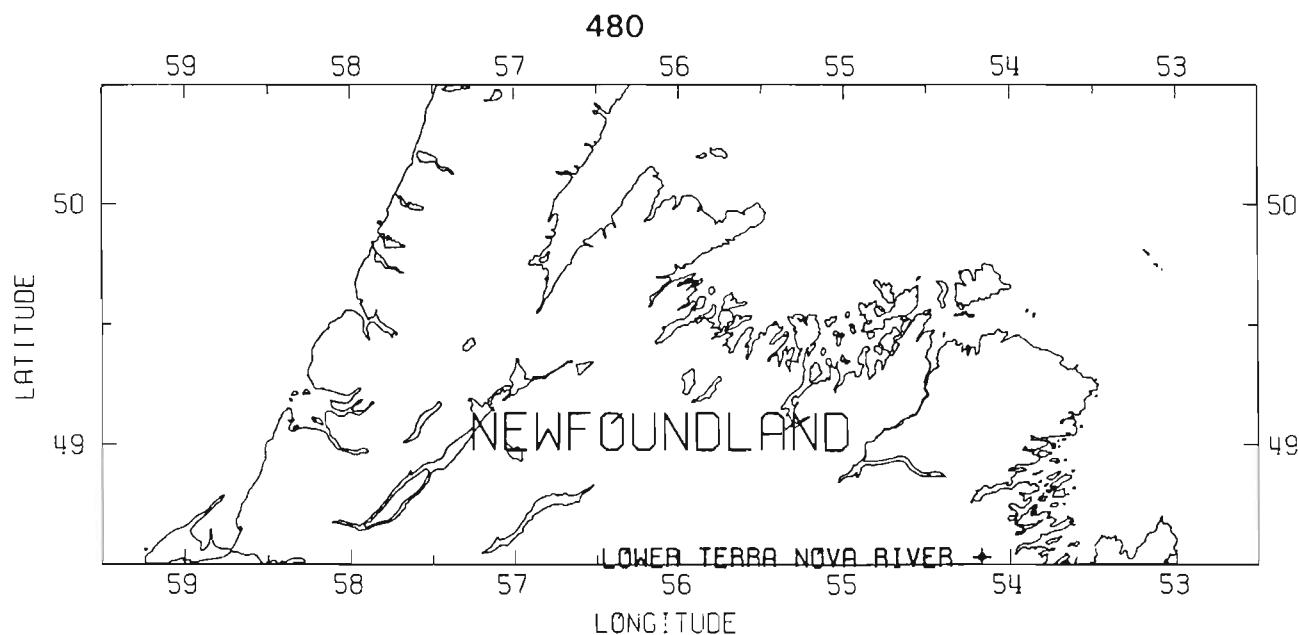
End: 27-AUG-1992

THERMOGRAPH DATA SUMMARY

STATION NAME: LOWER TERRA NOVA RIVER
STATION NUMBER: 115
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 7818
LATITUDE: 48.53° N
LONGITUDE: 54.17° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 1 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 17-JUN-1993 16:00 GMT
RECOVERY DATE/TIME: 3-SEP-1993 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
JUN-1993	8.20	176	19.50	169	13.84	2.90	195.2	139.2	320
JUL-1993	12.40	188	18.90	212	15.10	1.34	468.2	344.2	744
AUG-1993	13.00	241	22.00	215	18.21	2.08	564.7	440.7	744
SEP-1993	12.40	244	15.00	246	13.51	0.79	40.9	28.9	62
Total Period	8.20	176	22.00	215	16.07	2.67	1269.0	953.0	1870



Start: 17-JUN-1993

End: 3-SEP-1993

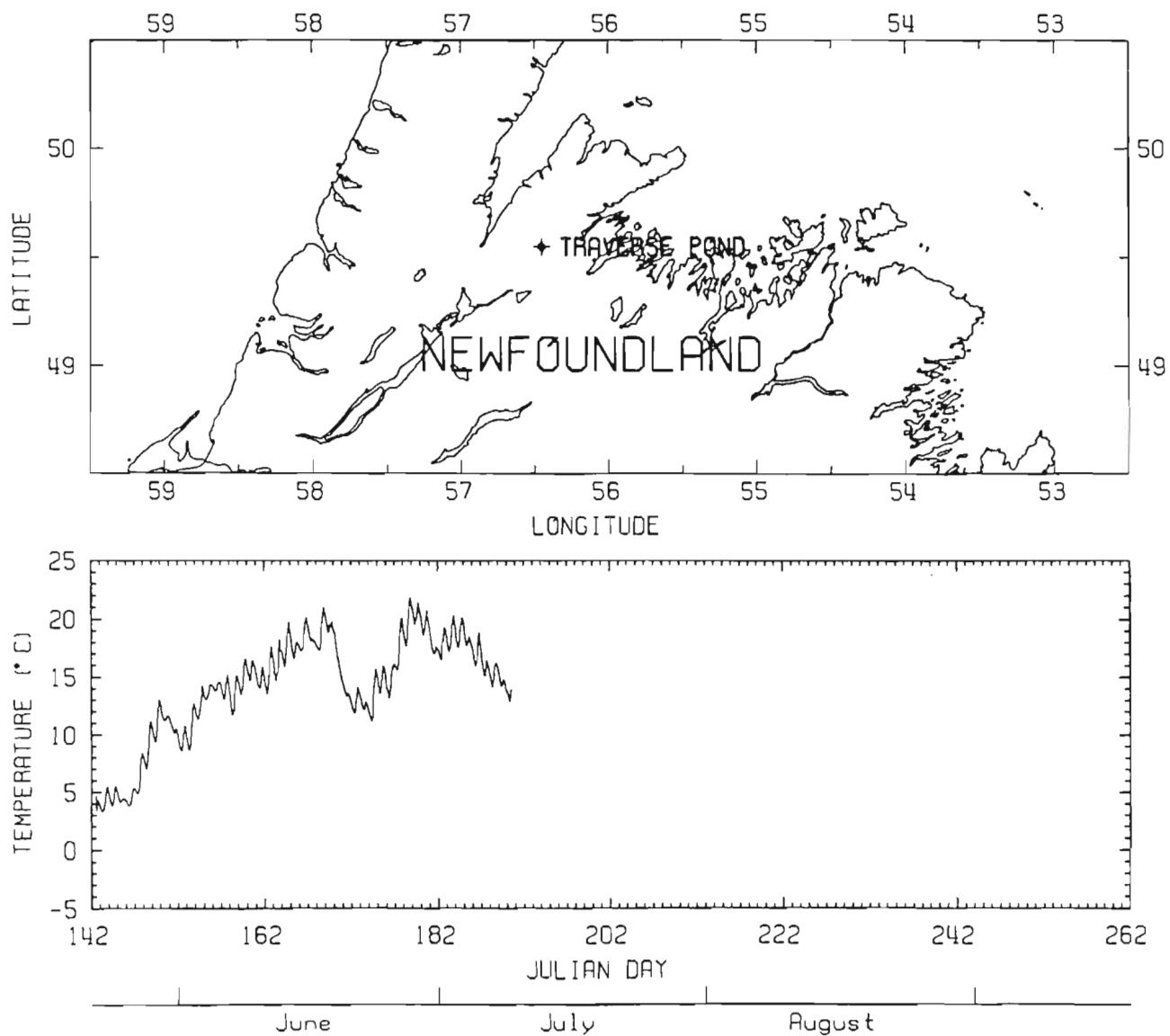
THERMOGRAPH DATA SUMMARY

STATION NAME: TRAVERSE POND
STATION NUMBER: 148
INSTRUMENT TYPE: Seamon UTR-B (Hugrun)
INSTRUMENT S/N: 4323
LATITUDE: 49.55° N
LONGITUDE: 56.45° W
INSTRUMENT DEPTH: 1 m
WATER DEPTH: 2 m
SAMPLING INTERVAL: 60 min.
DEPLOYMENT DATE/TIME: 22-MAY-1990 13:00 GMT
RECOVERY DATE/TIME: 9-JUL-1990 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
<hr/>									
MAY-1990	3.30	143	13.00	149	7.10	3.12	69.3	29.3	227
JUN-1990	8.60	152	21.85	178	15.57	2.96	467.2	347.2	720
JUL-1990	12.80	190	20.30	183	16.84	1.86	150.1	114.1	206
Total Period	3.30	143	21.85	178	14.13	4.51	686.6	490.6	1153

482



Start: 22-MAY-1990

End: 9-JUL-1990