THE LABRADOR CURRENT BETWEEN HAMILTON INLET AND THE STRAIT OF BELLE ISLE

July 1968
REPORT No. 41  CG 373-41

THE LABRADOR CURRENT BETWEEN HAMILTON INLET AND THE STRAIT OF BELLE ISLE

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By Henry S. Andersen
ABSTRACT

In July and August 1968, the Coast Guard Oceanographic Unit conducted a cruise aboard the USCGC EVERGREEN to monitor the movements and deterioration of an iceberg and associated meteorological and oceanographic conditions. Only the results of the oceanographic observations are presented. Four oceanographic sections were occupied across the Labrador Current between Hamilton Inlet and the Strait of Belle Isle. Analysis of the surface dynamic topography and selected isopycnal surfaces indicates strong topographic control of the currents in this area. The temperature distribution along the southernmost section suggests that the coldest component of the shelf band of the Labrador Current passed landward of the area under study, reinforcing previously published information that the shelf band of the Labrador Current bifurcates east of Hamilton Inlet.

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The Labrador Current Between Hamilton Inlet and the Strait of Belle Isle
July 1968
Henry S. Andersen

INTRODUCTION
From 17 July to 16 August 1968, the Coast Guard Oceanographic Unit conducted a cruise aboard the USCGC EVERGREEN (WAGO 295) to collect information about iceberg drift and deterioration. This cruise was part of a continuing Coast Guard program to monitor the movements and deterioration of icebergs and associated meteorological and oceanographic conditions. The results of the oceanographic observations are presented here; iceberg drift and deterioration will be the subject of a future publication.

The USCGC EVERGREEN sailed from Boston, Massachusetts on 17 July 1968 en route to the area of operation in the western Labrador Sea between Hamilton Inlet and the Strait of Belle Isle (fig. 1). A medium-size drydock iceberg was located on 22 July and tracked until 9 August 1968. The trajectory of the iceberg was determined by using moored reference markers and periodic radar plotting. Concurrent with the tracking of the iceberg, direct current measurements were obtained by parachute drogues. A four-section hydrographic survey consisting of 48 Nansen stations was conducted during 22–26 July to determine the dynamic topography of the area. The USCGC EVERGREEN returned to Boston on 16 August.

Mr. Thomas C. Wolford, Oceanographer, served as Field Party Chief for this cruise. He was assisted by Lieutenant Commander Martin J. Moynihan, USCG, and Ensign Henry S. Andersen, USCGR. Technical assistance was provided by Danny L. Allen, Aerographer's Mate Third Class; Michael L. Combs, Aerographer's Mate Third Class; Kenneth L. Mitchell, Sonarman Third Class; and Mr. Ronald B. Lorenz, student trainee.

DATA COLLECTION AND PROCESSING
Temperature data was acquired with paired reversing thermometers mounted on Teflon-lined Nansen bottles. Salinities were determined on board with an inductive salinometer, using tables prepared by UNESCO/NIO (UNESCO, 1966) for computing salinity from the measured conductivity ratios. Depths of sampling were determined from the wire angle of the cast and pairs of unprotected and protected thermometers on selected Nansen bottles. Dynamic heights were computed on board using a PDP-8/S computer. Dynamic heights in water shallower than the reference level were computed in a manner described by Kollmeyer (1967).

The data presented in the Tables of Oceanographic Data are reproduced from a computer listing from the National Oceanographic Data Center (Cruise No. 31–1260). Anomalies of dynamic height in the listing were computed by NODC, but all discussion of dynamic heights in the text and related computations in this report were based on dynamic heights computed on board USCGC EVERGREEN or by the Coast Guard Oceanographic Unit.

INTERPRETATION OF RESULTS
The Labrador Current comprises two distinct bands—one over the continental shelf and the other over the steepest part of the continental slope (Smith, et al., 1937). Near Hamilton Inlet, the inshore band over the continental shelf possesses colder (<1°C), fresher (<33.5‰) wa-
ter, while the offshore band over the slope possesses warmer (>1°C), more saline (>34.0‰) water, greater velocities, and a greater thickness.

A chart of sea surface dynamic topography relative to 600 decibars was prepared for the survey area to estimate the component of motion of the study iceberg resulting from ocean currents. Defant's method of estimating the level of no motion by comparing the differences in dynamic height between pairs of stations at varying pressures (Defant, 1961) was applied to several of the deeper stations in the area surveyed, and 600 decibars was chosen as a reference level. The 600 decibar level also was a suitable compromise between the deeper levels previously used and shallower levels desired to reduce errors in the integration procedure in shallow waters. Defant (1961), on a chart of the entire Atlantic Ocean, presented a depth exceeding 1900 meters as a suitable reference level for the survey area. Previous work done by the Oceanographic Unit in the region utilized a reference level of 1500 decibars.

In the area surveyed, the slope band of the Labrador Current appears on the chart of dynamic topography (fig. 2) as a concentration of contours near the eastern ends of the occupied sections. The shelf band is exhibited most clearly by the presence of negative-temperature water centered at about 75 meters (figs. 11, 13, 15, and 17) and appears to be split into several bands.

The trajectory of the iceberg under study was generally consistent with the dynamic topography of the sea surface relative to 600 decibars (fig. 2) until 4 August when it began moving westward against the geopotential gradient of an anticyclonic gyre. On 6 August the iceberg began moving northwestward against the circulation of the gyre. This seemingly anomalous motion probably is the result of a change in the wind observed at this time. The wind shifted from about 320° at approximately 7 knots to 170° at approximately 15 knots and continued to blow at this velocity for the next 28 hours. The final part of the trajectory up to 1900Z 9 August is difficult to explain in terms of the observed winds or dynamic topography. The relationship between this portion of the iceberg's trajectory and the dynamic topography should be inferred with caution because this portion of the trajectory occurred midway between two lines of stations (sections B and C) and two weeks after the completion of the oceanographic survey.

Because of the complexity of the surface dynamic topography and the uncertainty of the dynamic method in regions shallower than the reference level, an investigation of the region by isentropic analyses was conducted (figs. 3–10). It was recognized that in a comparatively shallow region such as the study area, where vertical mixing probably is extensive, isentropic analysis is not an entirely suitable tool of investigation either, but the analysis was performed to see if it would corroborate the results attained by the dynamic method.

Comparison of the variation of depth of the 27.00 σt and 27.25 σt surfaces (figs. 8 and 10) with the sea surface dynamic topography relative to 600 decibars (fig. 2) indicates agreement in the basic features of the current regime. Although this agreement might be expected because the distribution of sea surface dynamic heights and the configuration of density surfaces are both functions of the mass distribution, it is still encouraging that such agreement was found in view of the approximations used to integrate the dynamic height along the shoaling sea bottom.

The chart of dynamic topography (fig. 2) indicates a weak cyclonic gyre centered on the third station (station 10349) from the western end of section C. That this gyre plays a more important role in the circulation of the area than is apparent from its manifestation at the sea surface may be appreciated after examining the distribution of density along section C (fig. 21). A doming of the density surfaces, with its axis inclined to the west, arises out of a bathymetric depression centered on station 10350. The dome is associated with a cyclonic vortex whose speed of rotation below the pycnocline (located at about 20 meters) decreases with depth.

The vortex appears to be a direct consequence of a depression in the shelf at 53°N 53.5°W (fig. 1), near stations 10348–51 (figs. 15, 16, and 21). The bathymetric chart suggests that the sill depth is greater to the east of this depression north of section C. Vertical sections of temperature, salinity, and density through the bathymetric depression (figs. 15, 16, and 21) revealed an incursion into the depression.
of slope water that is warmer, more saline, and denser than the adjacent shelf water. From comparison with sections B and D, it may be inferred that the lens of warm, salty water in the depression is the result of an influx of slope water between sections B and C.

Further evidence of the effect of the bathymetry upon the circulation in this area is afforded by the zigzag near 53°N 52°W of the slope component of the Labrador Current (figs. 2 and 10). This feature coincides with a northward projecting spur in the bottom topography (fig. 1). The 27.25 σt surface, which is 200 to 300 meters shallower than the bottom, possesses relief that is the approximate inverse of the bottom topography. As would be expected, the successively shallower σt surfaces (figs. 4, 6, and 8) exhibit a decreasing correlation with the bottom topography.

The coldest water observed (−1.62°) occurred at stations 10370 and 10371 at the western end of section D (fig. 17). The absence of such extreme temperatures at the other more northern sections suggests that the source of this cold water was a filament of the Labrador Current inshore of the sections occupied by USCGC EVERGREEN. Bullard, et al. (1961), mention a division of the Labrador Current by the shoal off Hamilton Inlet. The bottom topography (fig. 1) includes a rise (<100 fathoms) near 54° 45′N, 55°15′W which may be responsible for this division.

REFERENCES


Figure 1. Bathymetric chart of survey area in the western Labrador Sea between Strait of Belle Isle and Hamilton Inlet. Contour interval is 100 fathoms to a depth of 500 fathoms and 500 fathoms thereafter. The chart is adapted from U.S. Naval Oceanographic Office charts RC0610N and RC0611N. Station positions are included.
Figure 2. Sea surface dynamic topography (dynamic meters) relative to 600 decibars, 22–26 July 1968. Contour interval is 0.02 dynamic meters. Track line indicates trajectory of iceberg under study.
Figure 3. Distribution of temperature (°C) upon the 26.50 $\sigma_t$ surface, 22-26 July 1968. Dashed line indicates intersection of the 26.50 $\sigma_t$ surface with the sea surface.
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Figure 21. Density ($\sigma_t$) profile for section C, 25 July 1968. Contour interval is 0.25 for values up to 27.25 and 0.10 for values greater than 27.40.
Figure 22. Density (\(\sigma_t\)) profile for section D, 26 July 1968. Contour interval is 0.25 for values up to 27.25 and 0.10 for values greater than 27.40.
APPENDIX A

OCEANOGRAPHIC DATA

A complete description of the codes utilized in the tabulation of oceanographic station data can be found in National Oceanographic Data Center publication M-2, Processing Physical and Chemical Data from Oceanographic Stations. (Rev. August 1964, supplement issued May 1966.)

To facilitate use of the oceanographic station data listing, entry headings which are not self-explanatory are described below.

- **Depth to Bottom**: Corrected or uncorrected sounding in meters.
- **Max. Depth of Samples**: Depth of deepest sample to nearest multiple of one hundred meters.
- **Wave observations:**
  - **DIR.**: Round to nearest multiple of ten degrees.
  - **HGT.**: In increments of ½ m. Sum of 5 meters plus increments of ½ m if 50 is added to direction.
  - **PER.**: If numerals 2 through 9 are entered, period in seconds is twice the numeric entry or 2 × (numeric entry) + 1. For other entries see WMO Code 3155.
  - **SEA Weather Code.**: Sea state according to WMO Code 3700.
- **Cloud Code:**
  - **Type**: Cloud type according to WMO Code 0500.
  - **Amount**: Cloud amount in eights. Entry of the numeral 9 indicates cloud amount could not be estimated.
- **Water:**
  - **Color Code**: Color according to Forel-Ule scale.
  - **Trans.**: Transparency in whole meters as determined by Secchi disc.
- **Wind:**
  - **Dir.**: Rounded to nearest multiple of ten degrees.
  - **Speed or Force**: If preceded by letter S, wind speed in knots, if preceded by letter F, wind force according to Beaufort scale.
- **Barometer**: Barometric pressure given in tens, units and tenths of millibars.
- **Air Temp. °C**: Air temperature to tenths of a degree centigrade.
- **Vis. Code**: Visibility according to WMO Code 4300.
- **No obs. depths**: Number of observed levels associated with the station.
- **Messenger time**: Entered in hours and tenths of an hour GMT. For Nansen casts, indicates time of release of messenger applicable to the observational level. For STD casts, indicates the starting time of lowering the sensor.
- **Card type**: OBS designates observed levels. STD indicates the values at this standard level were interpolated by a modified 3-point LaGrange formula.
- **Depth (m)**: Depth to nearest meter. A postscript T indicates depth was obtained thermometrically; S indicates uncorrected “wire out” depth. Postscript Q indicates value was marked doubtful by originator; P indicates value was considered doubtful by NODC. Postscripts P and Q retain this meaning throughout the following entries.
- **T °C**: Temperature to hundredths of a degree Centigrade.
- **S %o**: Salinity in parts-per-thousand.
- **SIGMA-T**: Entered to hundredths.
- **Specific-volume Anomaly — × 10^7**: Multiply entry by 10^−7 to obtain specific-volume anomaly in cubic centimeters per gram.
- **ΣΔD Dyn. M × 10^3**: Multiply entry by 10^−3 to obtain anomaly of dynamic height in dynamic meters referenced to the sea surface.
- **Sound Velocity**
  - **O₂ ml/l**: Dissolved oxygen in milliliters per liter entered to hundredths.
  - **PO4-P μg-at/l**: Inorganic phosphate in microgram-atoms per liter entered to hundredths.
  - **Total-P μg-at/l**: Total phosphorus in microgram-atoms per liter entered to hundredths.
  - **NO3-N μg-at/l**: Nitrate-nitrogen in microgram-atoms per liter entered to hundredths.
  - **NO2-N μg-at/l**: Nitrite-nitrogen in microgram-atoms per liter entered to hundredths.
  - **SiO₃-Si μg-at/l**: Silicate-silicon in microgram-atoms per liter entered to whole units.
  - **pH**: Entered to hundredths.
Table 1. Observed and interpolated data for stations taken by USCGC EVERGREEN from 22 to 26 July during the 1968 International Ice Patrol. The data listings were prepared from NODC listing No. 31-1260.

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| 208     | OBS  | 0020  |      | 0520     | 3428   | 2710| 0009713| 0026      | 14712    |       |           |            |         |         |         |         |         |
| 208     | OBS  | 0040  |      | 0494     | 3497   | 2722| 008275 | 0035      | 14696    |       |           |            |         |         |         |         |         |
| 208     | OBS  | 0060  |      | 0448     | 3495   | 2736| 007265 | 0051      | 14673    |       |           |            |         |         |         |         |         |
| 208     | OBS  | 0080  |      | 0408     | 3452   | 2736| 000491 | 0066      | 14659    |       |           |            |         |         |         |         |         |
| 208     | OBS  | 0100  |      | 0369     | 3477   | 2766| 004528 | 0078      | 14669    |       |           |            |         |         |         |         |         |
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| 208     | OBS  | 0180  |      | 0368     | 3486   | 2773| 003909 | 0119      | 14686    |       |           |            |         |         |         |         |         |
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| 208     | OBS  | 0400  |      | 0365     | 3491   | 2777| 004400 | 0536      | 14852    |       |           |            |         |         |         |         |         |
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| OBS    | 0000   | 0550   | 33405  | 2638           | 0012788        | 0015           | 14652          |                |                |                |                |                |                |                |                |                |                |                |
| OBS    | 0020   | 0291   | 3394   | 2707           | 0010018        | 0026           | 14611          |                |                |                |                |                |                |                |                |                |                |                |
| STD    | 0030   | 0247   | 3411   | 2724           | 0008377        | 0035           | 14596          |                |                |                |                |                |                |                |                |                |                |                |
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| OBS    | 0086   | 0280   | 34563  | 2758           | 0004883        | 0079           | 14642          |                |                |                |                |                |                |                |                |                |                |                |
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**注释**
- **STD** 表示标准深度。
- **OBS** 表示观察深度。
- **15 516 064 078 072 5 14** 可能是某些数据的标识或代码。
- 其他数据包括深度（depth）、温度（temp）、盐度（salinity）等。

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