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A SUMMARY OF TEMPERATURE-SALINITY CHARACTERISTICS OF THE PERSIAN GULF

GENERAL SERIES

PUBLICATION G-4

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NATIONAL OCEANOGRAPHIC DATA CENTER

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A SUMMARY OF TEMPERATURE-SALINITY CHARACTERISTICS OF THE PERSIAN GULF

PUBLICATION G-4

1964

For sale by authorized Sales Agents of the U. S. Naval Oceanographic Office, Washington, D. C. 20390.

This is a chronological compilation of pertinent analysis, data and textual material taken from publications (papers) authored by:

GERHARD SCHOTT (1908) (1918)
BRUNO SHULTZ (1914)
H. BLEGVAD (1944)
K. O. EMERY (1956)
H. DUBACH & T. WEHE (1959)

Assemblage of this material, with an analysis of recent unpublished (post 1950) temperature and salinity data, was by:

HAROLD W. DUBACH

Publications in the NODC General Series:

1. Introduction to the National Oceanographic Data Center, NODC Pub. G-1, 1963
2. Oceanographic Vessels of the World, NODC Pub. G-2, Volume I, 1961, and Volume II, 1963
3. Data Report EQUALANT I, NODC Pub. G-3, 1964

PREFACE

In the performance of its prime mission, which is to process and archive oceanographic data and provide these data on request to the scientific community, the Data Center has found it essential that the data be evaluated before being added to the archive. In the evaluation process, certain analyses of the data are made; these formulate the basis by which the Data Center oceanographers assess the data quality. Of course, referral to the analyses contained in contemporary and historical research papers of recognized scientists serve as a basic evaluation reference point. When such analytical information is assembled, it seems desirable that the Data Center make this material available in a consolidated package for use by others. This is the first such document; others will follow at irregular intervals as our processing of station data for the world oceans proceeds.

ACKNOWLEDGMENTS

The assistance of Mr. William Lyons and Mrs. Wilhelmenia Bowe in preparing the art work, Mr. Albert Bargeski in preparing the data appendixes, Miss Jacqueline Mothershead for her typing assistance, Mrs. Eugenia Pakulis for her aid in preparing translations, and Mr. William Myers for his helpful comments is sincerely appreciated.

TABLE OF CONTENTS

	Page
Introduction	1
Comment	1
Section I—Location Charts	5
Section II—Schott's and Schultz's Analyses	15
Section III—Blegvad's Analysis	29
Section IV—Emery's Analysis	33
Section V—Dubach's and Wehe's Analysis	41
Section VI—Recent Data Analysis	53
Data Appendix	
Appendix A— Historical Data (Pre—1950)	87
Appendix B— Recent Observations (Post—1950)	103
Bibliography	221

FIGURES

		Page
Figure I- 1.	Location of Surface Observations—Persian Gulf, 1907	7
I- 2.	Location of Surface Observations—Persian Gulf, 1910-11	8
I- 3.	Station Locations—Persian Gulf, Mar.-Apr. 1937 and Feb.-Apr. 1938	9
I- 4.	Station Locations—Persian Gulf, Aug. 1948	10
I- 5.	Station Locations—Kuwait Harbor, Feb. 1949	11
I- 6.	Station Locations—Northern Part Persian Gulf, Dec. 1949-Apr. 1950, Nov. 1951, Feb. 1952, and Apr. 1952	12
I- 7.	Station Locations—Northern Part Persian Gulf, Feb.-Mar. 1960	13
I- 8.	Inventory of Bathythermograph Data—Persian Gulf, monthly for each 1° square	14
Figure II- 1.	Persian Gulf—Temperature (°C)—surface, Feb.	17
II- 2.	Persian Gulf—Temperature (°C)—surface, Mdy	18
II- 3.	Persian Gulf—Temperature (°C)—surface, Aug.	19
II- 4.	Persian Gulf—Temperature (°C)—surface, Nov.	20
II- 5.	Persian Gulf—Salinity (°/₀₀)—surface, Jan., Feb., Mar.	21
II- 6.	Persian Gulf—Salinity (°/₀₀)—surface, Jul., Aug., Sept.	22
II- 7.	Persian Gulf—Fluctuation of Mean Monthly Air and Water Temperatures at 29°N, 49°-50°E, 26°N, and 56°-57°E	23
Figure III- 1.	Persian Gulf—Temperature (°F)—surface, Feb., Mar., and Apr. (after K. O. Emery)	31
Figure IV- 1.	Persian Gulf—Temperture (°F)—surface, Aug.	35
IV- 2.	Persian Gulf—Salinity (°/₀₀)—surface, Aug.	36
IV- 3	Persian Gulf-Temperature (°F) and Salinity (°/₀₀) Sections, Aug	37
Figure V- 1.	Kuwait Harbor—Temperature (°F)—surface, Feb.	43
V- 2.	Kuwait Harbor—Temperature (°F)—bottom, Feb.	44
V- 3.	Kuwait Harbor—Salinity (°/₀₀)—surface, Feb.	45
V- 4.	Kuwait Harbor—Salinity (°/₀₀)—bottom, Feb.	46
V- 5.	Kuwait Harbor—Diurnal Warming Study, 3 Jan. 1949	47
V- 6.	Kuwait Harbor—Diurnal Warming Study, 27 Feb. 1949	48
V- 7.	Fahihil—Diurnal Warming Study, 21 Mar. 1949	49
Figure VI- 1.	Northern Part, Persian Gulf—Temperature (°C)—surface, Feb. 1952, Mar. 1950	55
VI- 2.	Northern Part, Persian Gulf—Temperature (°C)—10 meters, Feb. 1952, Mar. 1950	56
VI- 3.	Northern Part, Persian Gulf—Temperature (°C)—20 meters, Feb. 1952, Mar. 1950	57
VI- 4.	Northern Part, Persian Gulf—Temperature (°C)—30 meters, Feb. 1952	58
VI- 5.	Northern Part, Persian Gulf—Salinity (°/₀₀)—surface, Feb. 1952, Mar. 1950	59

FIGURES (con't)

		Page
Figure VI- 6.	Northern Part, Persian Gulf—Salinity (°/₀₀)— 10 meters, Feb. 1952, Mar. 1950	60
VI- 7.	Northern Part, Persian Gulf—Salinity (°/₀₀)— 20 meters, Feb. 1952, Mar. 1950	61
VI- 8.	Northern Part, Persian Gulf—Salinity (°/₀₀)— 30 meters, Feb. 1952	62
VI- 9.	Northern Part, Persian Gulf—Temperature (°C)— surface, Feb.-Mar. 1960	63
VI-10.	Northern Part, Persian Gulf—Temperature (°C)— 10 meters, Feb.-Mar. 1960	64
VI-11.	Northern Part, Persian Gulf—Temperature (°C)— 20 meters, Feb.-Mar. 1960	65
VI-12.	Northern Part, Persian Gulf—Temperature (°C)— 30 meters, Feb.-Mar. 1960	66
VI-13.	Northern Part, Persian Gulf—Salinity (°/₀₀)— surface, Feb.-Mar. 1960	67
VI-14.	Northern Part, Persian Gulf—Salinity (°/₀₀)— 10 meters, Feb.-Mar. 1960	68
VI-15.	Northern Part, Persian Gulf—Salinity (°/₀₀)— 20 meters, Feb.-Mar. 1960	69
VI-16.	Northern Part, Persian Gulf—Salinity (°/₀₀)— 30 meters, Feb.-Mar. 1960	70
VI-17.	Northern Part, Persian Gulf—Temperature (°C)— surface, Apr. 1952	71
VI-18.	Northern Part, Persian Gulf—Temperature (°C)— 10 meters, Apr. 1952	72
VI-19.	Northern Part, Persian Gulf—Temperature (°C)— 20 meters, Apr. 1952	73
VI-20.	Northern Part, Persian Gulf—Temperature (°C)— 30 meters, Apr. 1952	74
VI-21.	Northern Part, Persian Gulf—Salinity (°/₀₀)— surface, Apr. 1952	75
VI-22.	Northern Part, Persian Gulf—Salinity (°/₀₀)— 10 meters, Apr. 1952	76
VI-23.	Northern Part, Persian Gulf—Salinity (°/₀₀)— 20 meters, Apr. 1952	77
VI-24.	Northern Part, Persian Gulf—Salinity (°/₀₀)— 30 meters, Apr. 1952	78
VI-25.	Northern Part, Persian Gulf—Temperature (°C)— surface, Nov. 1951	79
VI-26.	Northern Part, Persian Gulf—Temperature (°C)— 10 meters, Nov. 1951	80

FIGURES (con't)

		Page
Figure VI-27.	Northern Part, Persian Gulf—Temperature (°C)—20 meters, Nov. 1951	81
VI-28.	Northern Part, Persian Gulf—Temperature (°C)—30 meters, Nov. 1951	82
VI-29.	Northern Part, Persian Gulf—Salinity (°/₀₀)—surface, Nov. 1951	83
VI-30.	Northern Part, Persian Gulf—Salinity (°/₀₀)—10 meters, Nov. 1951	84
VI-31.	Northern Part, Persian Gulf—Salinity (°/₀₀)—20 meters, Nov. 1951	85
VI-32.	Northern Part, Persian Gulf—Salinity (°/₀₀)—30 meters, Nov. 1951	86

INTRODUCTION.

Between the covers of this publication are assembled the data and analyses of all the known temperature and salinity observations made in the Persian Gulf. Charts previously published have been reproduced along with each author's comments on the temperature-salinity regime and its relationship to other environmental factors as determined by the particular set(s) of observations available for study at the time.

An analysis of recent temperature-salinity observations (taken since 1950) has been prepared and is included; charts for each observation series are presented for the surface, 10-meter, 20-meter, and 30-meter levels. The position or location of observations are shown in Section I; the appendixes contain the observational data upon which the analyses are based. The distribution of bathythermograph data by 1° squares has been charted and included in Section I (Figure I-8). Results of a 1961 survey (NODC Cruise 31865) were received and the processing completed just before going to press. These are included in order that this document might be as complete as possible; analyses for these data are not presented.

COMMENT.

Schott, in his classical treatment of the Gulf, presents four seasonal temperature distributions and two (winter and summer) for salinity conditions. From the information and data contained in References 5 and 6 and Tables 1 and 2, it appears that the summer salinity chart is based primarily on data collected in the month of September and may not be totally indicative of the summer extreme. Salinity data for the winter (February) season appears to be adequate and representative. Temperature data appears to be plentiful for August as well as other months. Schott's data summary shows that the absolute temperature maximum for all latitudes in the Gulf occur in August; all areas except one show the maximum occuring in the ten-day period between the 11th and 21st.

Apparently, K. O. Emery was guided by Schott's temperature analysis in planning his 1948 survey; his survey was undertaken at the very height of the summer season, all the work being conducted between the 15th and 30th of August (NODC Cruise 31S04). Emery's work alone provides the only collection of oceanographic stations for the summer months; he also has provided probably the greatest volume of BT observations covering mid-summer

conditions for the Persian Gulf. Of course, surface samples (shown on chart) aided Emery in his analyses of surface conditions (Figures IV-1 and IV-2).

Blegvad's work was confined to the winter and early-spring months and was concentrated in the eastern half of the Gulf. Since his work was done as a supplement to a fishery investigation of the Persian Gulf funded by the Iranian Government, it may not have been appropriate for him to sample the temperature-salinity conditions of the entire Gulf area. Apparently, no analysis was ever attempted by Blegvad; only a table of observations is shown in his work (Reference 1, Table 4). K. O. Emery prepared the analysis shown in Figure III-1; it is based on a composite of Schott's and Blegvad's data.

The study by Dubach and Wehe (Reference 2) covers a very limited area (Kuwait Harbor) and a short time interval; however, it probably supplies a good indication of mid-winter inshore conditions.

The more recent surveys conducted in the decade 1950-59 obviously were not intended to provide information to improve the past understanding of the temperature-salinity characteristics and their interrelationship with other environmental features for the entire Gulf area. The 1951-52 (NODC Cruises 31S05 and 31496) data provides material for appraising the variation in temperature-salinity features in the northern part of the Gulf along two lines of observations extending from Iran to the Arabian Peninsula. The arrangement of observations for March 1950 (NODC Cruise 31382) leaves something to be desired; the two station lines oriented SE-NE show the influence of the outflow of Shatt al Arab. It would be interesting, indeed, to examine other environmental data including stream flow rates, rainfall, wind, etc. for the same period and to relate these to the conditions observed in the Gulf. The reason for the arrangement of the remaining stations is not known; it appears most haphazard.

The design of the February-March 1960 survey (NODC Cruise 31658) is systematic and provides a good pattern of data. Both the surface temperature and surface salinity patterns indicate a very weak outflow (almost unnoticeable effect) of Shatt al Arab; this makes for an interesting comparison with the March observations of a decade earlier. Again, it is highly probable that meteorological conditions for the Gulf and its surrounding area were influential in establishing the recorded temperature-salinity conditions. (In all post 1950 analyses, dashed and dotted lines are used for intermediate intervals and/or extrapolative analysis.)

In the early analysis by Schott and Emery, the isolines for both surface temperature and salinity generally parallel the long

axis of the Gulf, a condition which is most pronounced in the summer months. The more recent data, available only for the northern portion of the Gulf, produces a more east-west orientation of isolines; this is particularly apparent in the February-March 1960 surface-temperature and salinity analysis (Figures VI-9 through VI-16). It is not truly clear whether this geographic stratification within the Persian Gulf is indicative of a seasonal change, a long-term (decade) change, or a bias occuring in sampling the area.

This review of the existing information for the Persian Gulf, I believe, emphasizes the need to develop adequate data sampling patterns. This and several other gulfs and lakes of the world offer excellent model areas in which to conduct full-scale studies in a "natural environmental laboratory."

Certainly, a better understanding of some of the air-sea relationships can be obtained by instrumenting such bodies of water for special studies; perhaps, initially, some more definitive values for energy transfer between air and sea can be derived by using "model-scale bodies of water" located at different latitudes. Other microstructure studies might be conducted simultaneously as well. Following are some comparative areal figures for gulfs and lakes that might serve as models:

WATER BODY	AREA* (approximate)
Persian Gulf	92,200 sq. miles
Great Lakes (total)	94,700 sq. miles
Gulf of St. Lawrence	91,800 sq. miles
Gulf of California	62,600 sq. miles
Baltic Sea	163,000 sq. miles
Hudson Bay	475,800 sq. miles
Lake Superior	31,800 sq. miles

*Source: The World Almanac and Book of Facts, New York World-Telegram and The Sun, 1964.

The present day availability of improved oceanographic instrumentation and numbers of buoys, towers, and other platforms makes a rigorous study of energy exchange for "model areas" entirely feasible. Considering that many nations (and activities within each) have an active interest in oceanographic (marine) studies, perhaps a joint cooperative-comparative investigation could be undertaken, with each conducting work in the closest adjacent area; thus costs would be kept reasonable.

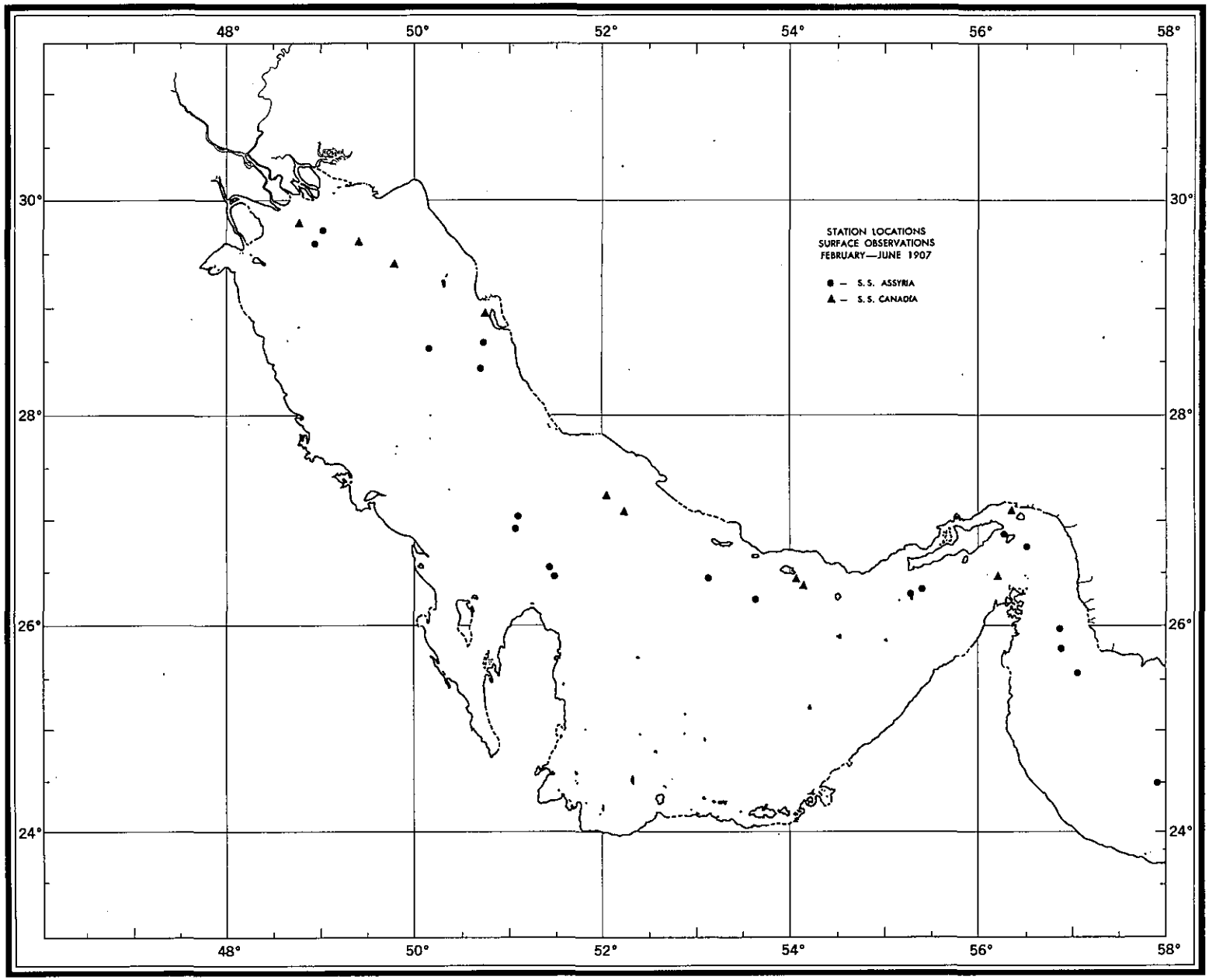

Figure I- 1. Location of Surface Observations—Persian Gulf, 1907

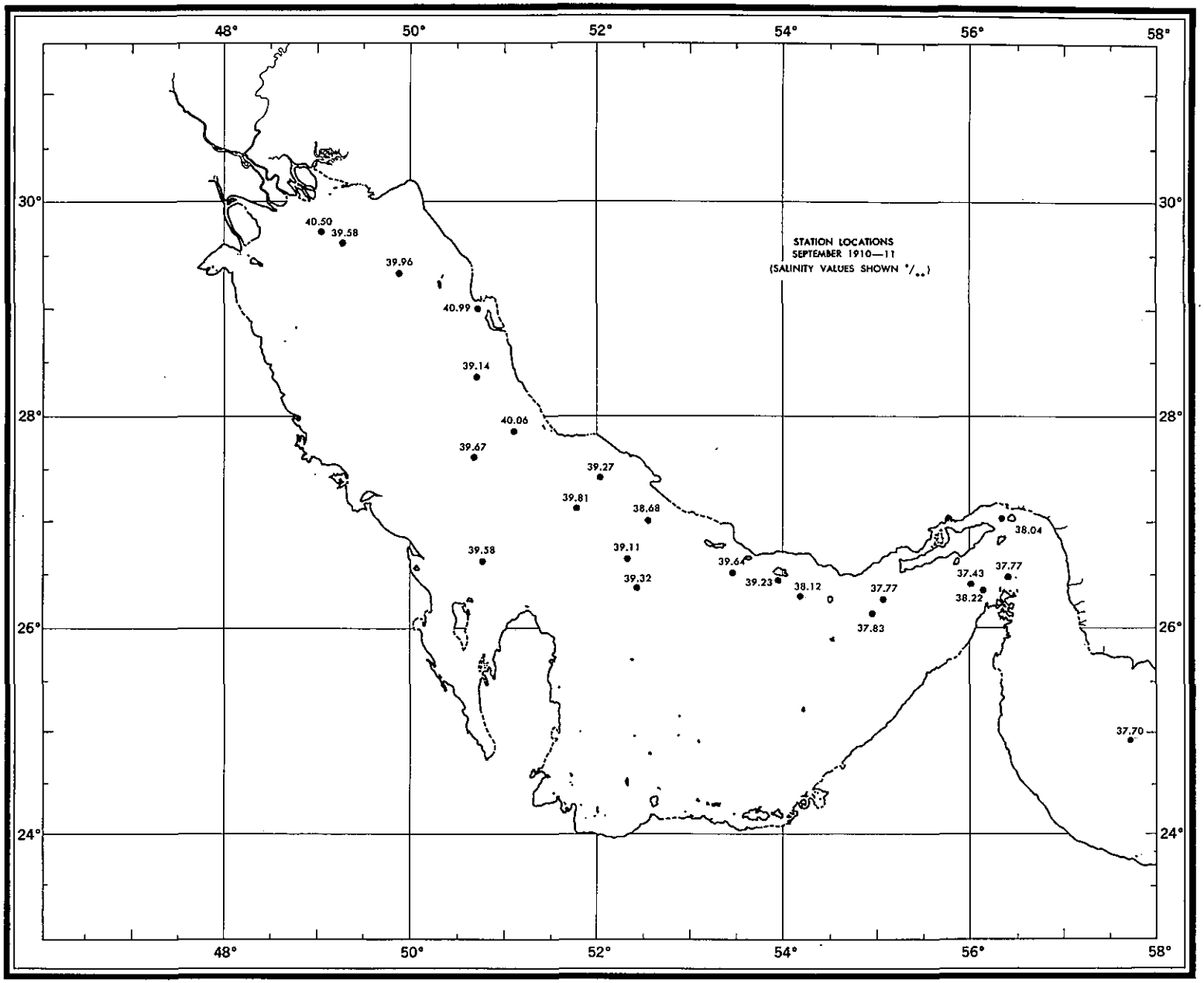

Figure I- 2. Location of Surface Observations— Persian Gulf, 1910-11

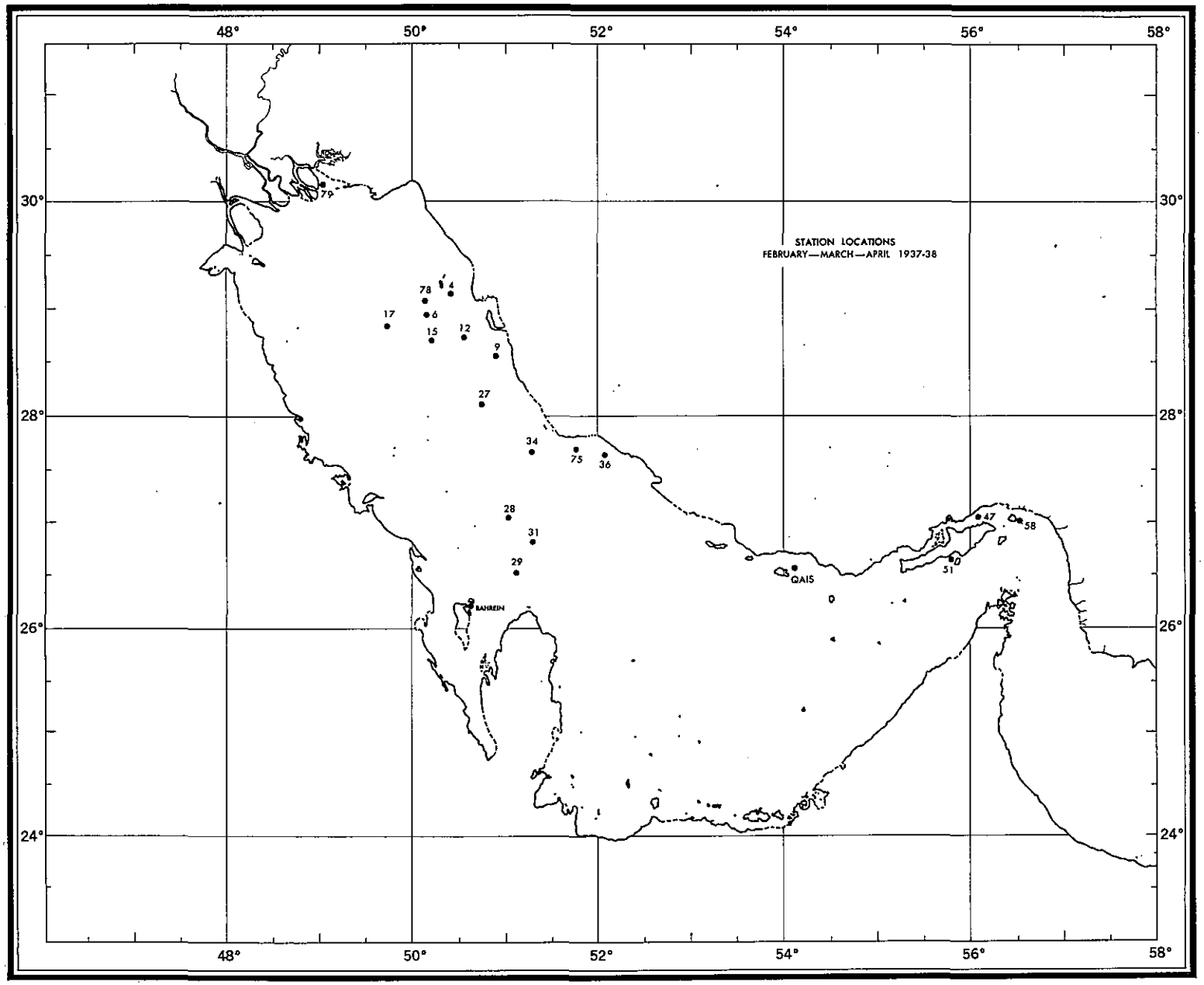

Figure I- 3. Station Locations—Persian Gulf, Mar.-Apr. 1937 and Feb.-Apr. 1938

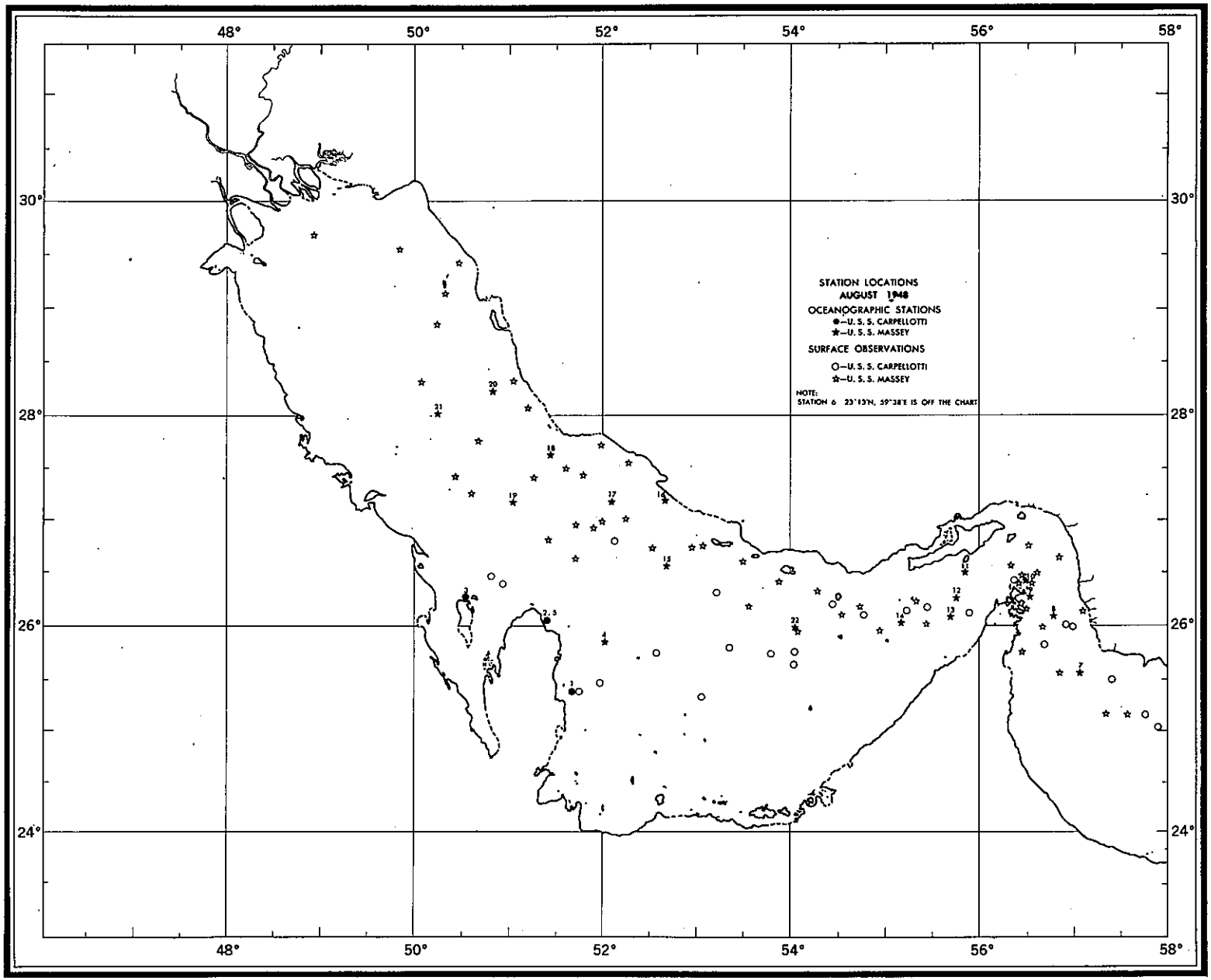

Figure I- 4. Station Locations—Persian Gulf, Aug. 1948

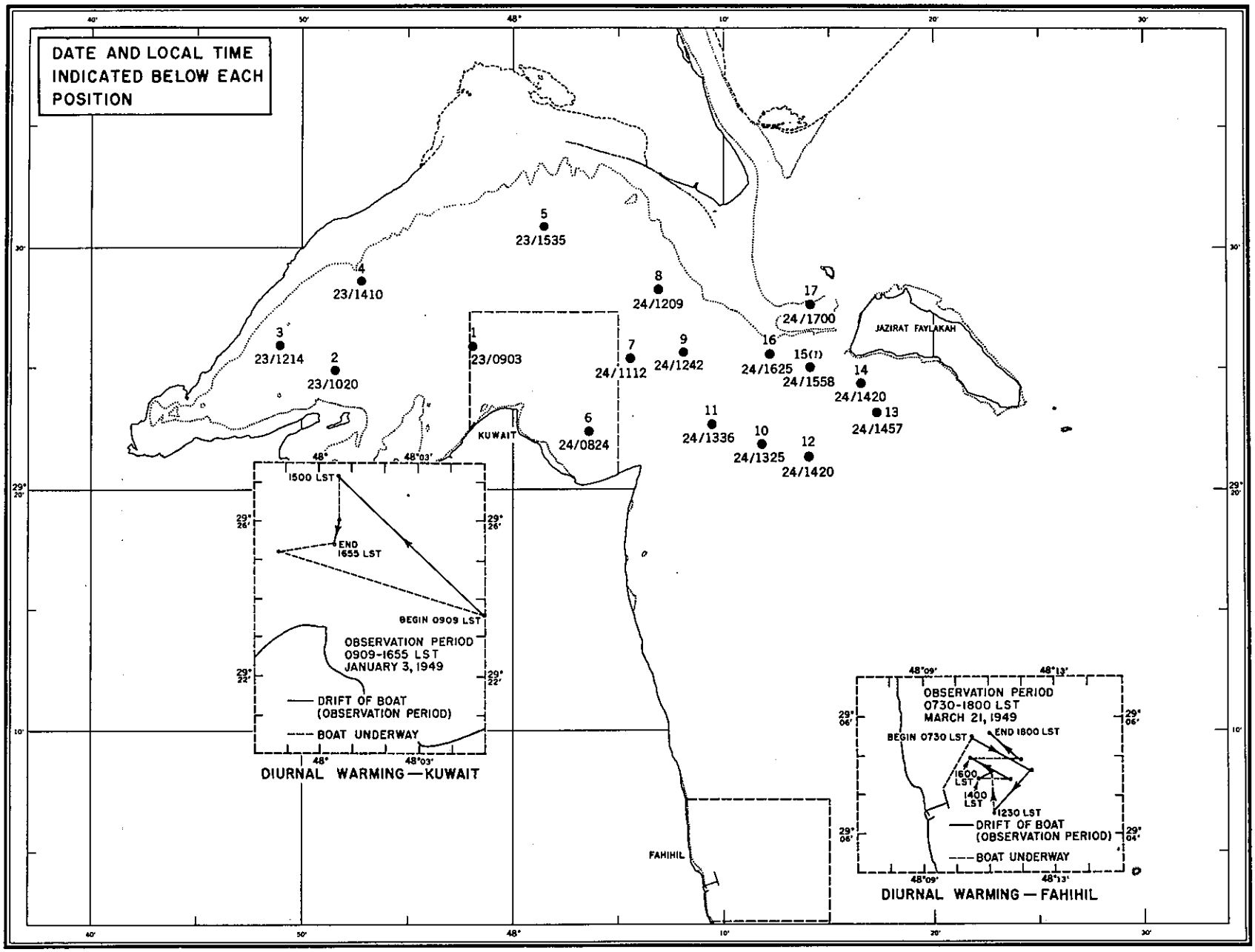

Figure I- 5. Station Locations—Kuwait Harbor, Feb. 1949

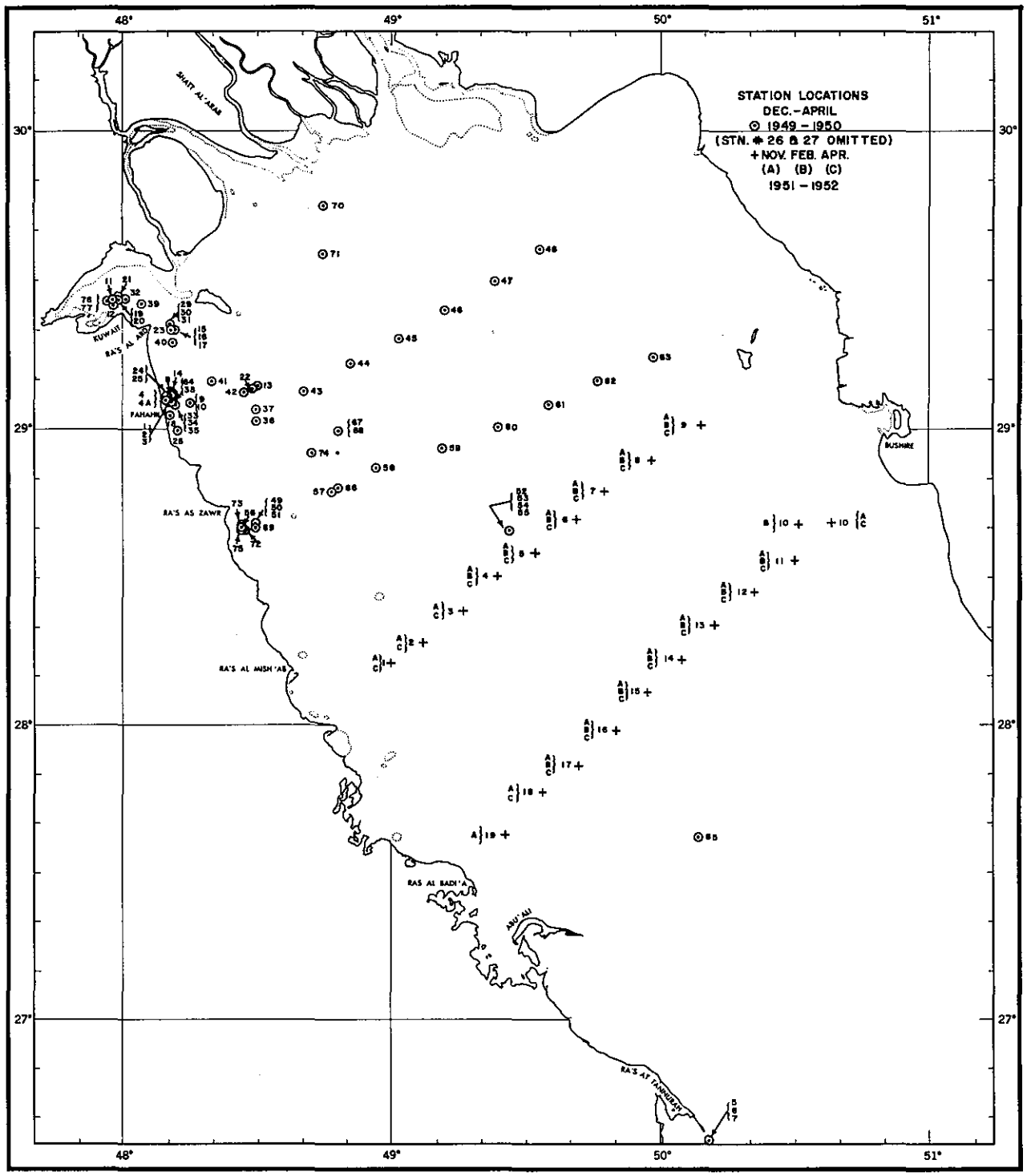

Figure 1- 6. Station Locations—Northern Part Persian Gulf, Dec. 1949-Apr. 1950, Nov. 1951, Feb. 1952, and Apr. 1952

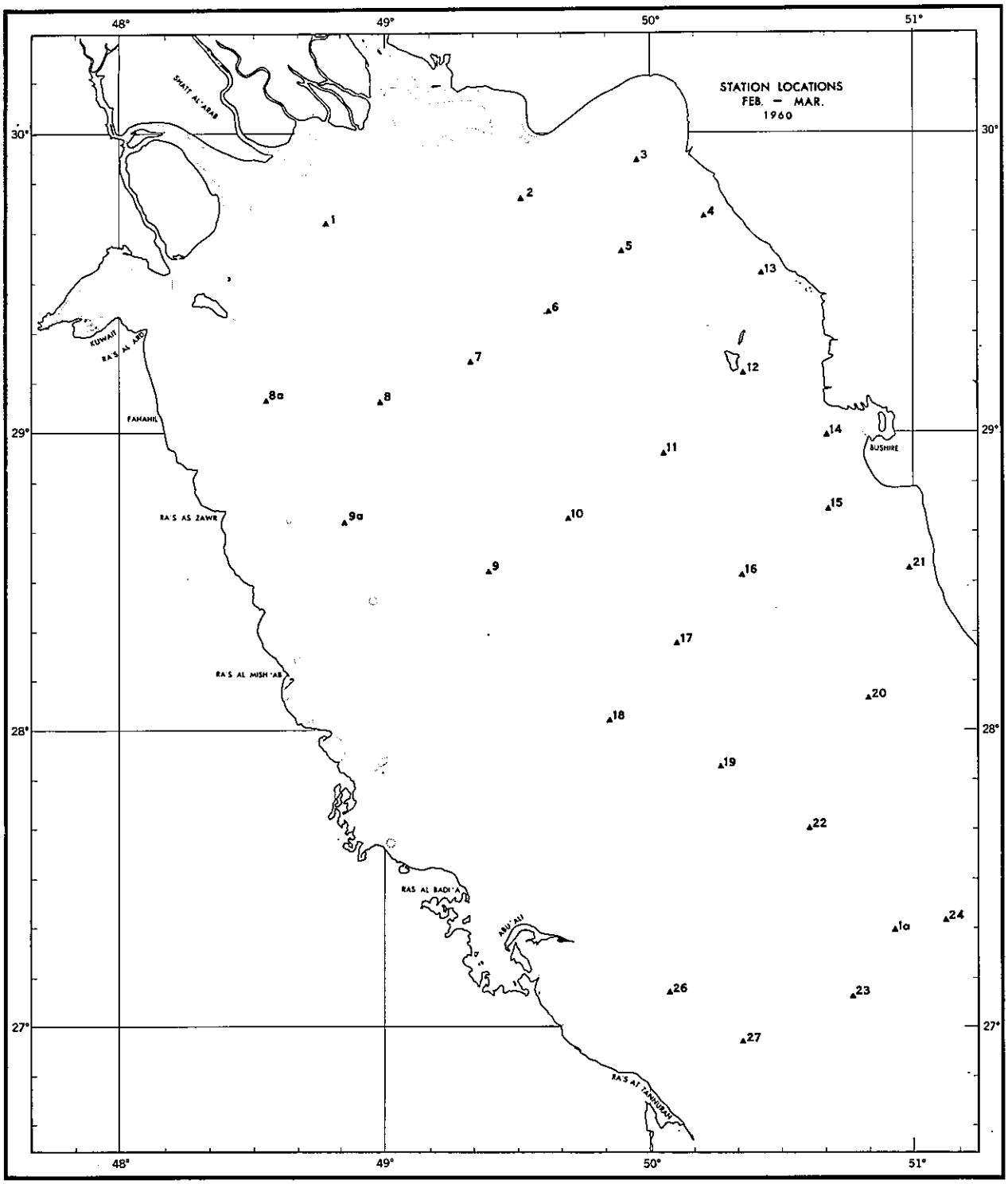

Figure I- 7. Station Locations—Northern Part Persian Gulf, Feb.-Mar. 1960

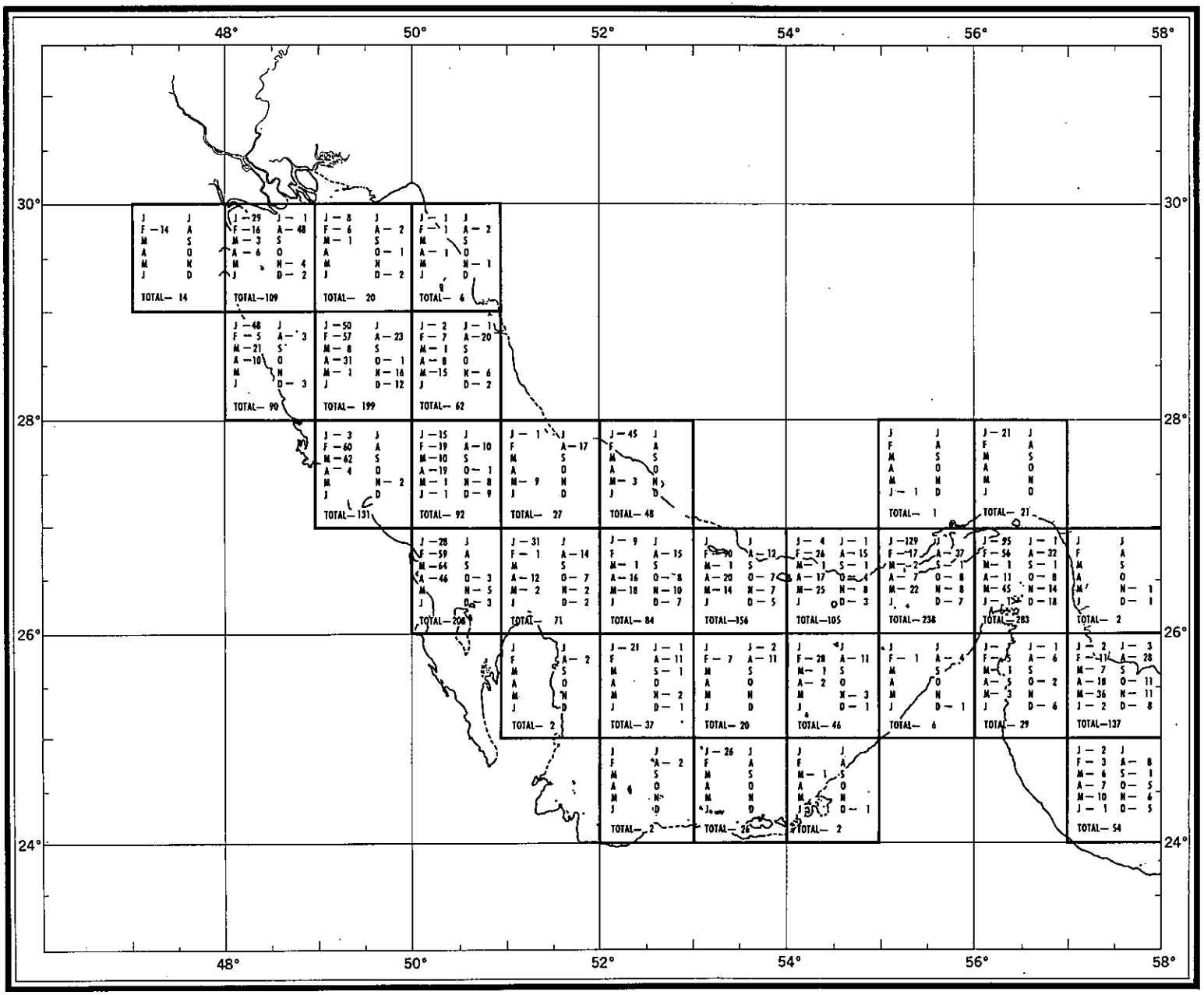

Figure I- 8. Inventory of Bathythermograph Data —Persian Gulf, monthly for each 1° square

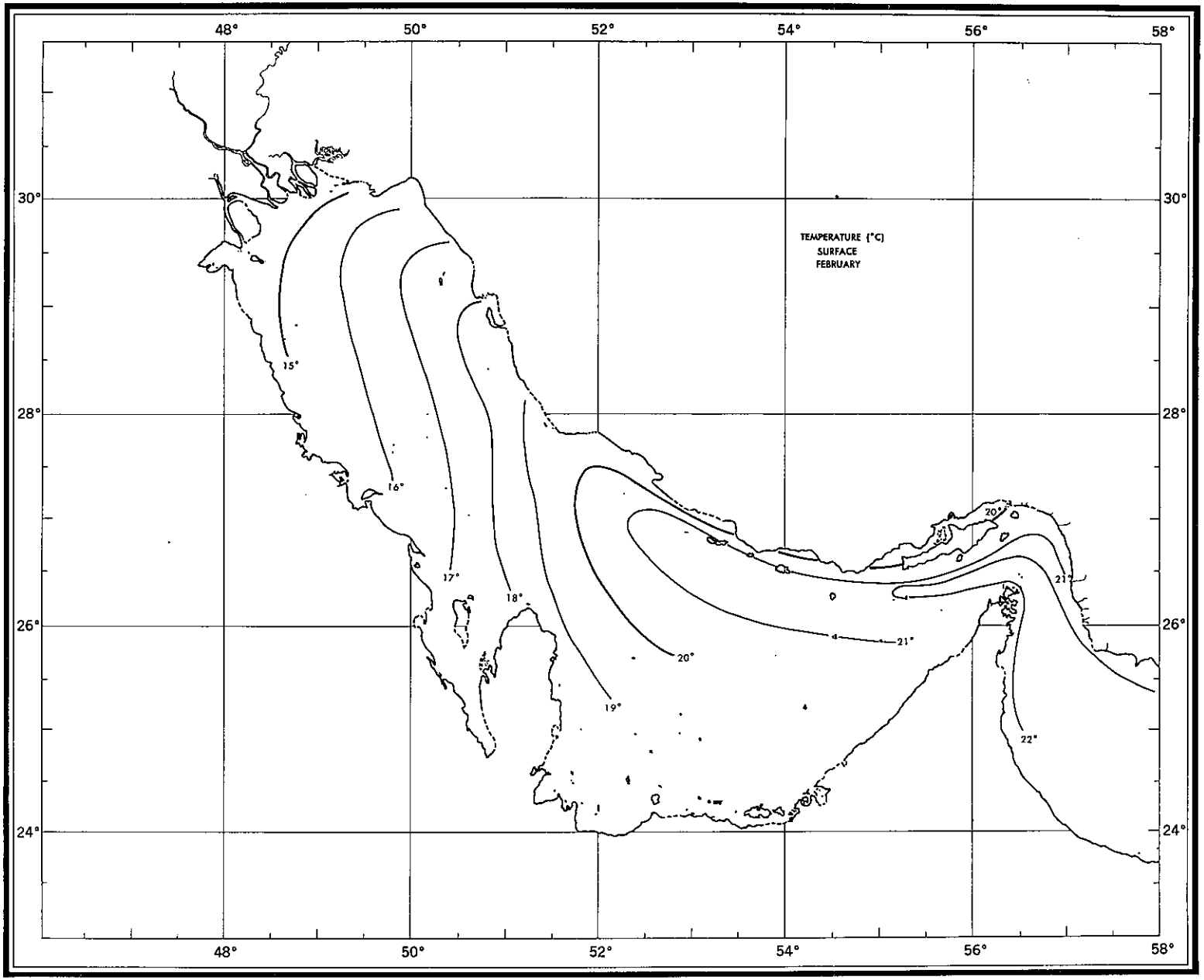

Figure II- 1. Persian Gulf—Temperature (°C)—surface, Feb.

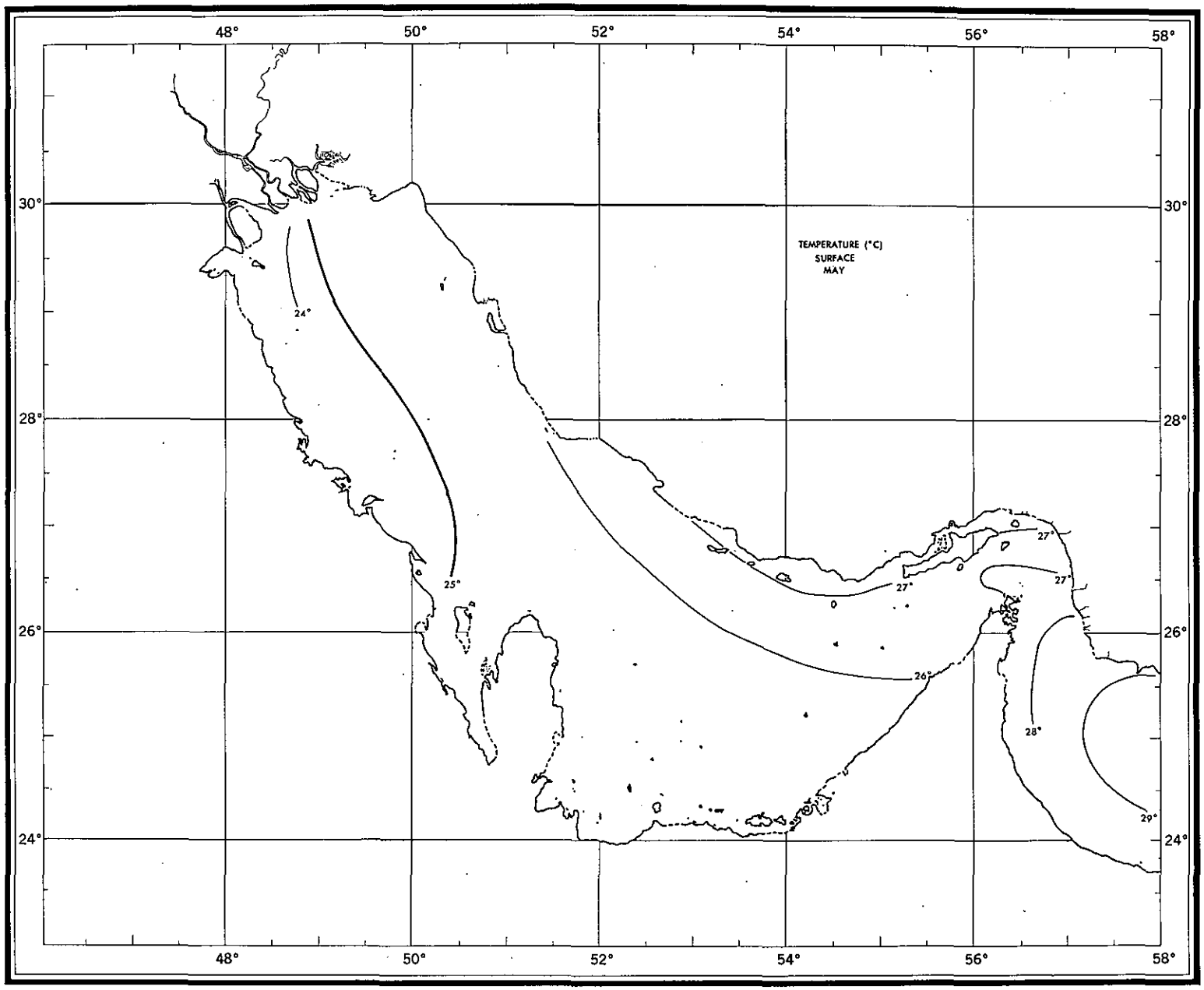

Figure II- 2. Persian Gulf—Temperature (°C)—surface, May

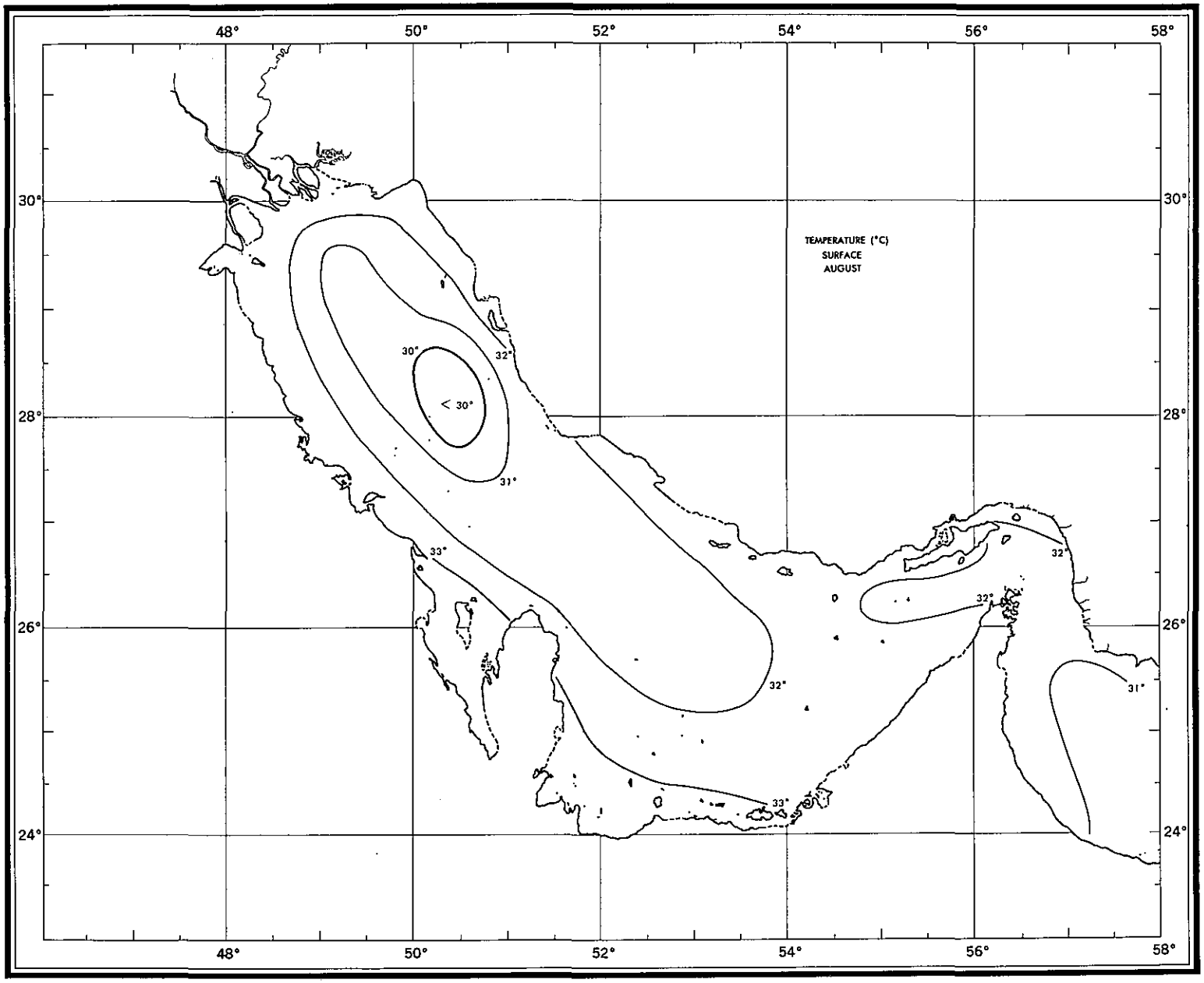

Figure II- 3. Persian Gulf—Temperature (°C)—surface, Aug.

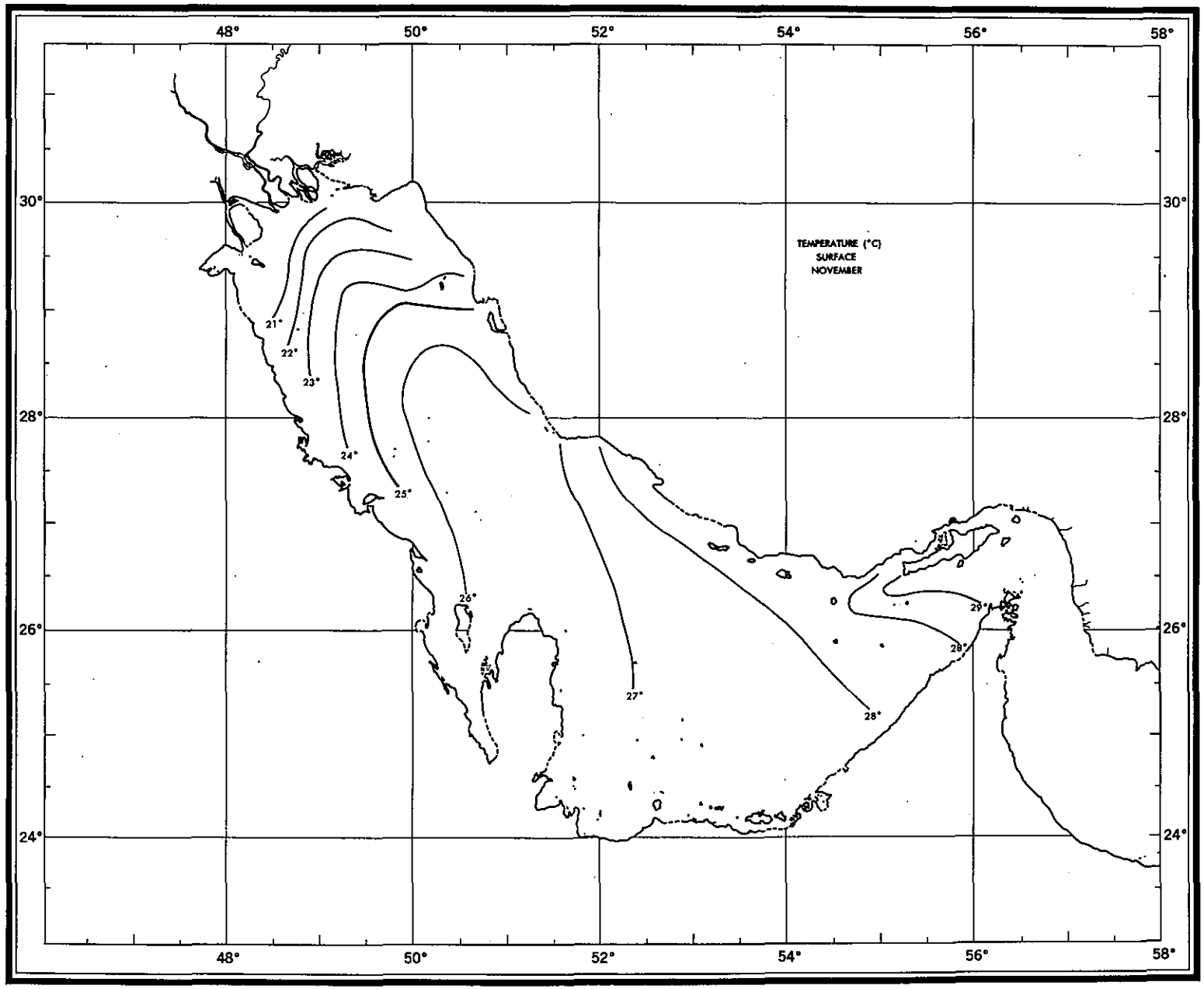

Figure II- 4. Persian Gulf—Temperature (°C)—surface, Nov.

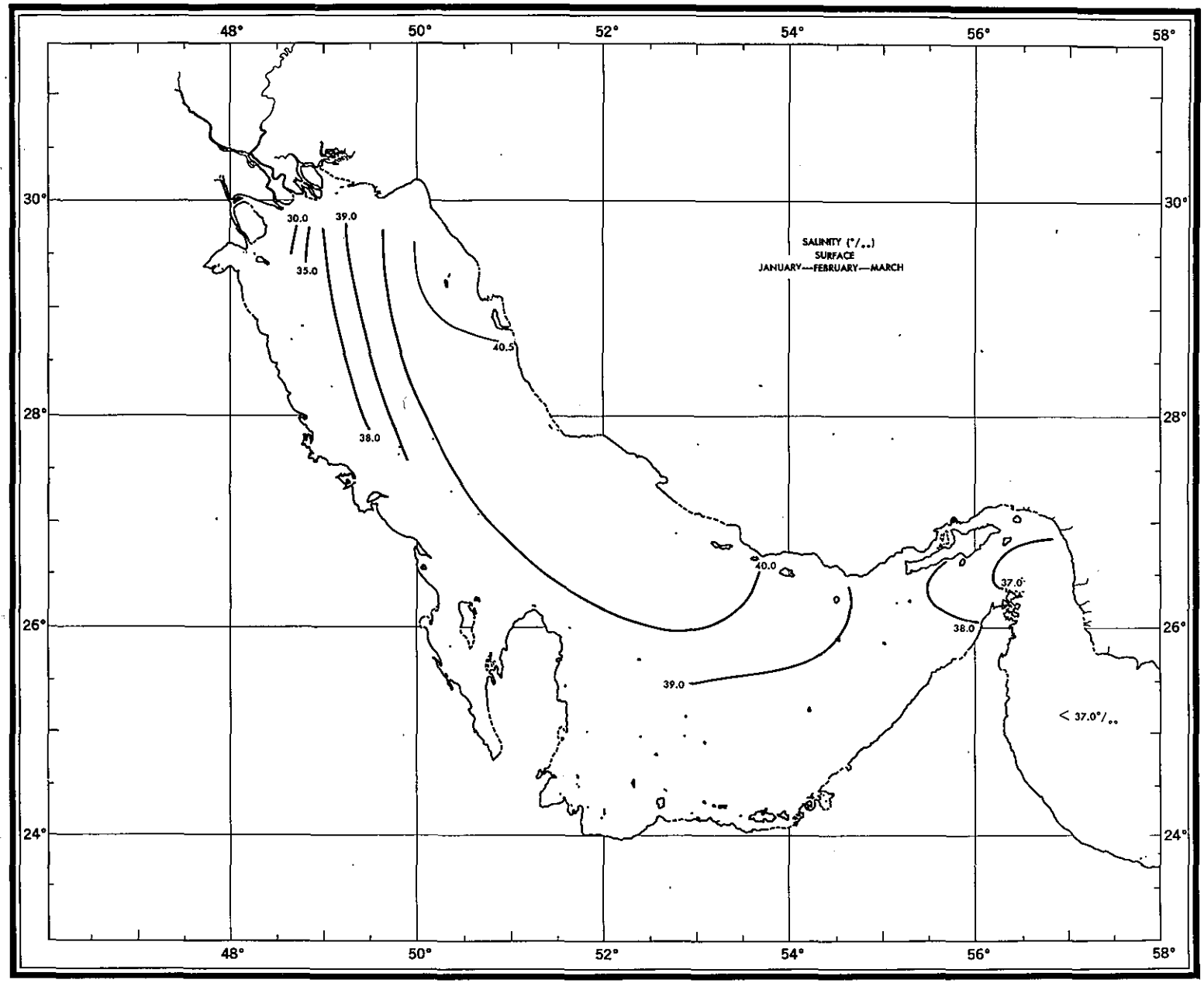

Figure II- 5. Persian Gulf—Salinity (°/₀₀)—surface, Jan., Feb., Mar.

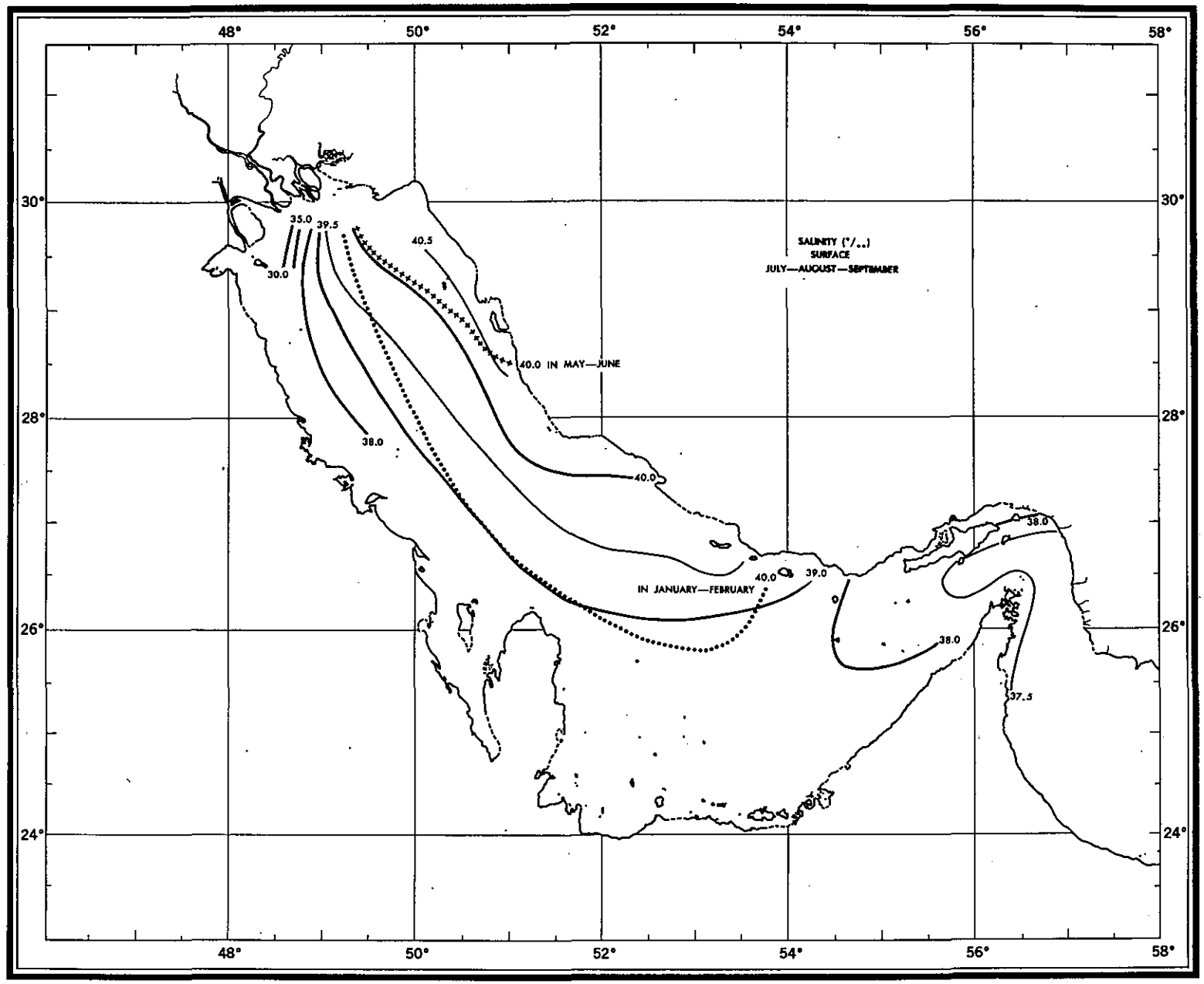

Figure II- 6. Persian Gulf—Salinity (°/₀₀)—surface, Jul., Aug., Sept.

PERSIAN GULF
FLUCTUATION OF MEAN MONTHLY TEMPERATURES

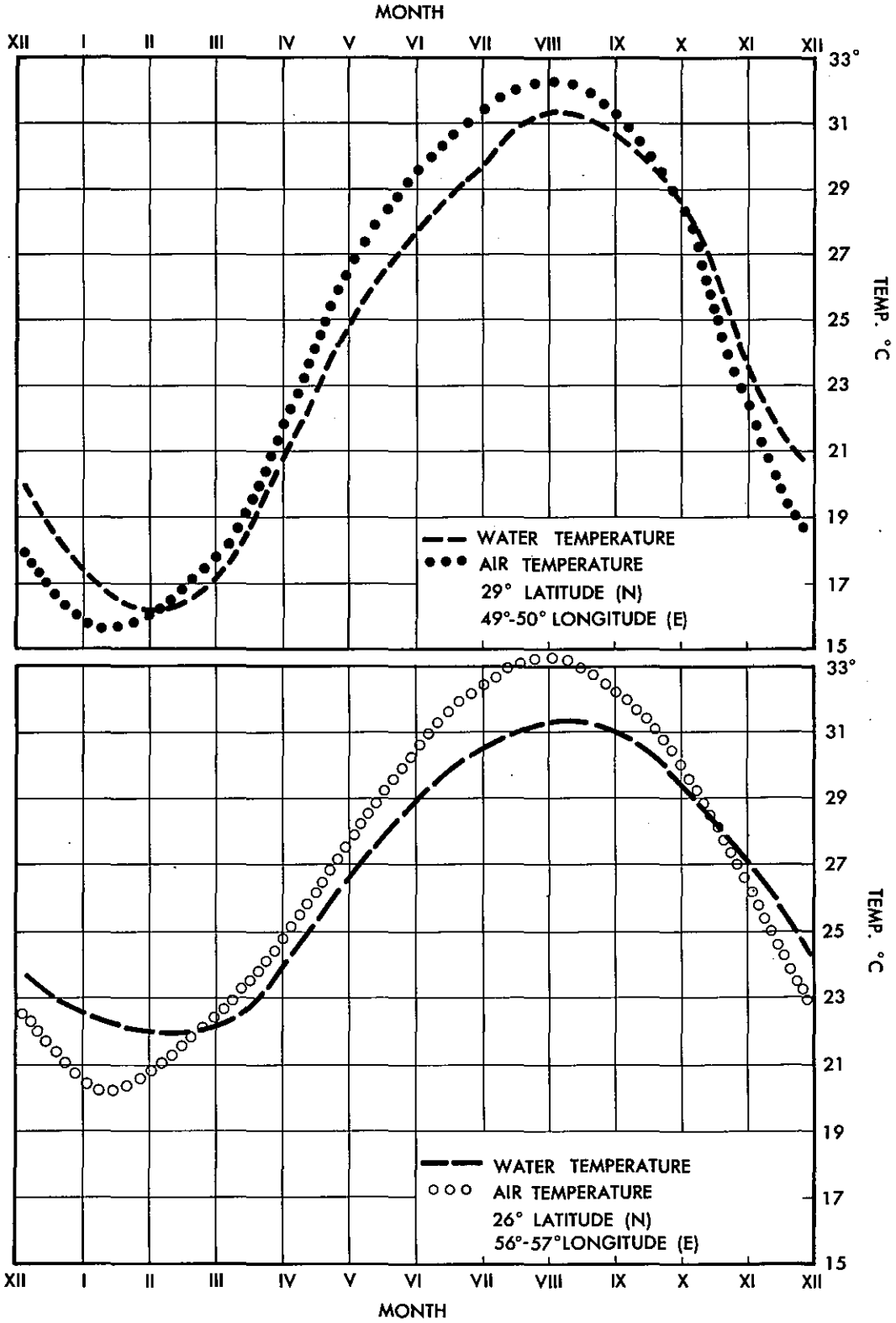

Figure II- 7. Persian Gulf—Fluctuation of Mean Monthly Air and Water Temperatures at 29°N, 49°-50°E, and 26°N, 56°-57°E

The following excerpts (translated from German) are taken from Reference 6, Section III. Ozeanographie; pages 7-9.

"1. Water Temperature. Up to now, only observations of surface water temperature can be evaluated. If we start with winter (February) . . . we can immediately notice in numerous places the contrast between the Persian side and the Arabian side of the Gulf. This contrast is the basis of the essential characteristics of almost all natural conditions in the Gulf. Along the Persian coast, the water in winter at the same latitude is definitely warmer than along the Arabian coast. The same is also evident, to a varying extent, for temperatures during the spring and fall months. Only in mid-summer are all coastal zones heated more, up to 32°C. and even 33°C., than the central northern part where observations show 30°C. and less. The distribution of the February isotherms shows clearly that warm ocean water of over 20°C. penetrates the Strait of Hormuz and flows to the right (north) toward the Persian coast, while on the other side, cool water of less than 15°C. from Shatt al Arab bypasses the Bay of Kuwait and flows south along the Arabian coast. Thus it happens that at this time off Bahrein the temperature is approximately 17°C., whereas in the vicinity of Lingeh, at the same geographic latitude, it is 21°C. to 21.5°C. Due to these conditions, the spreading of corals and pearls, which is restricted according to different sources mainly by the northern border of Cape Abu Ali, most likely depends upon the following: The cooler and simultaneously less saline water of the northern part of the Arabian side of the Gulf, which is also apparently mixed with detrital materials of the Shatt, is unfavorable to these organisms.

"Compared with the Persian Gulf, the water of the Gulf of Oman, as a part of the open ocean, seems to be relatively warm during all months except for summer and part of fall. In August when the Southwest Monsoon of the Arabian Sea provides strong direct cooling and simultaneously also an indirect supply of cold water from the lower part of the south Arabian coast up to Ras al Hadd, the Gulf of Oman is considerably cooler than the closed-up, shallow, and intensively heated water of the Persian Gulf.

"The mean water temperature fluctuations, which were determined from the February-August differences . . . bring out the aforementioned difference between the two gulfs. A yearly fluctuation of 15°C. to 17°C. and more in the northwest corner off Kuwait and Bushire stands in contrast to a fluctuation of 8°C. at Masqat and only 2°C. to 3°C. at Ras al Hadd to the southeast. The modifying effect of the ocean water can still be recognized westward of the Strait of Hormuz by other factors, especially the configuration of the 10°C. amplitude isoline.

"Although in Table 2, showing the data for 1° longitudinal sections running from north to south, the differences between the Arabian side and Persian side are eliminated, one can observe the following facts about the yearly course: Accordingly, in both gulfs the lowest temperatures occur in February, while in the Persian Gulf and in the Strait of Hormuz, the highest occur in August. This warming is thus in agreement with the general warming applicable to greater water surfaces. A different situation presents itself in the Gulf of Oman where in the northwestern part (the section between 57° to 58°E.) the maximum of 31.0°C. is reached in July, while in other sections located farther to the east maximums of 29.8°C. and 28.7°C. are attained in June; the most easterly section has, in addition, a secondary maximum of 28.1°C. in October, while the secondary minimum (27.6°C.) occurs in September. This is analogous to the typical Indian Ocean conditions: May and June are the warmest months in the western Indian Ocean, constituting a transitional period between the two monsoons. Then, with the rainy stormy Southwest Monsoon comes a cooling over the northern Arabian sea. The effect of this cooling period ends only in October when this wind diminishes. Air temperatures follow similar patterns.

"Noteworthy are the combined absolute extremes of water temperature shown at the bottom of Table 2. The maximums definitely exceed 31°C., are up to 33°C. in the Gulf of Oman, up to 34°C. in the Strait of Hormuz, and even up to 36.0°C. in the Persian Gulf. This unusually high water temperature has been observed halfway between Lingeh and Bahrein about 25 sea miles off the Persian coast in mid-August at 4 p.m.! The absolute minimum observed up to now in mid-January not far from the mouth of the Schatt was 12.3°C.

"2. Salinity (Table 1). In two earlier reports prepared by Schott (Reference 5) and Schulz (Reference 7), it was shown on the basis of recent salinity observations that in the Persian Gulf the surface water along the northern half of the Persian coast reaches and exceeds 40‰ salinity and that there is a noticeable fluctuation of salinity during the year, so that a minimum occurs in early summer and a maximum in late fall and winter. Inasmuch as the collection of surface water samples is now more abundant, one can see the actual conditions more clearly. Throughout the entire year, there is an area in the Persian Gulf where the salinity exceeds 40‰ reaching its greatest expansion in winter between the islands west of Lingeh and almost touching the Qatar Peninsula, and up to the northeast corner of the Gulf north of Bushire where salinities up to 40.5‰ have been observed. This area shrinks during spring and early summer to such an extent that in May and June the 40.0‰ isohaline encloses only a narrow strip off Bushire in the direction of the Shatt, approximately where the 40.5‰ isohaline lies in February. The late-summer and fall months seem to be in agreement

with the yearly average. The 40.0‰ isohaline then extends approximately from Cape Naband northward to the delta of the Shatt.

"Such a high salinity concentration in the Persian Gulf depends, like in the Red Sea, upon the very high air temperatures and great evaporation of water and upon the extremely small supply of fresh water runoff. Considering this last point, one might naturally assume that the highest salinity could be expected along the Arabian coast in the deep bays of the Pirate Coast where no rivers reach the sea, while along the Persian coast there are a few small rivers that flow into the Gulf and besides, the Persian side . . . receives quite an amount of rain, at least more than the Arabian side does. However, these two factors are not decisive. Decisive is the flow received from the sole large stream system, the Euphrates and Tigris, whose quantities of fresh water due to the influence of the earth's rotation (Coriolos Force. Ed.), flow exclusively southward along the Arabian coast (are deflected to the right. Ed.), as might already have been guessed from the isotherms of the surface waters . . . The runoff from the Shatt al Arab affects the constantly present strong pressure of the isohalines toward the east from the mouth, where the salinity is about 40‰, while 35‰ and even 30‰ appear halfway between Fao and Kuwait Bay. The isohalines here, like the isotherms, run from north to south instead of from west to east.

"With these facts in mind the yearly fluctuations, especially the freshening of the Gulf water in spring and early summer (May-June), can be explained. In contrast to the Nile, which has its high flood in October and its low-water stand in April-May, the Euphrates and Tigris taken together show their greatest runoff in April at Hit and Baghdad resulting from the melting of snow in the Armenian mountains. Both combined carry approximately 5,700 cubic meters of water per second. In August flow has decreased, and in October the combined flow of both streams returns to a minimum of 700 cubic meters. If we consider that the stream flow takes several weeks after passing Baghdad until it reaches the Gulf, the minimum salinity of the months May-June seems to fit pretty well into the picture. Without the Euphrates and Tigris runoff, we could analogously expect the salinity in the Persian Gulf area not affected by the Indian Ocean, that is, approximately west from Lingeh, to be the same as in the northern Red Sea (39.5‰). However in August-September, that is, during the period between extremes, the 39.5‰ isohaline runs exactly in the middle or along the longitudinal axis of the Gulf from NW to SE, and the area in which there is a noticeable general decrease of salinity, due to the dispersion of the Shatt water, can be estimated to occupy a little less than half of the Persian Gulf, that is, about 100,000 square kilometers.

"It should be kept in mind that in this area, which borders and is influenced by the Arabian Sea, salinities can be considered

high, at values of 38‰, when compared with oceanic conditions. Even the Gulf of Oman only occasionally in its northwestern part gets over 37‰, and at Ras al Hadd the average observed value should be at most 36.5‰ and possibly even less, since along the southern coast of Arabia there is a heterogeneous cold and low-saline water which usually comes from the depth up to the surface (Reference 7) . . . . "

The following excerpts (translated from German) are taken from Reference 7, pages 400-401.

"For the Persian Gulf, reliable surface salinity data were obtained for the first time in 1907 when, during the months of February and May-June, officers of the Hamburg-American Line collected water samples for titrimetric determination of salinity (Reference 5). These observations become useful (for analysis) when complemented by the observations taken in the years 1910 and 1911 because out of the total of 25 water samples, only three were taken in May and three in October; the remaining samples were all taken in September (presumably 1910-11. Ed.). The September observations are regularly scattered throughout the area, so that one can obtain an insight to the salinity distribution during this month.

"Just as in February and May-June, the salinity in September increases from east to west, and by following the 39.5‰ isohaline which runs approximately from Ras Rekkan (the most northern point of the Qatar Peninsula) up to Kangan, Persia (now Iran. Ed.), the Persian Gulf may be divided into a less saline eastern and a more saline western half. Toward the east, the salinity decreases in the Strait of Hormuz down to between 38.22‰ and 37.43‰. West of the 39.5‰ isohaline, however, the salinity increases off Bushire to 40.90‰. Two additional observations of over 40‰ indicate that the Persian coast, from approximately 52° E. up to Shatt al Arab, is bordered by a lens of water of over 40‰ salinity. This appears to be true also in February and May-June, and salinities may be over 40‰ throughout the year in the northeastern part of the Gulf.

"The observed differences in salinities for September and for February and May-June are considerable. The generally valid assumption that salinity in September is higher than in June, but lower than in February is evident; thus, September can be considered as a transitional period between the months of salinity extremes. This can be seen from the following observations taken at approximately the same locations in February and June 1907 and in September 1911 . . . ."

Latitude N	Longitude E	June 1907	September 1911	February 1907	Remarks
26° 32'	51° 26'	38.74	—	—	Approx. 16 sea miles N. from Ras Rekkan
26° 29'	50° 52'	—	39.58	—	
26° 28'	51° 28'	—	—	40.01	
26° 18'	55° 18'	37.10	—	—	Approx. 25 sea miles S.E. from Lingeh
26° 18'	55° 13'	—	37.77	—	
26° 20'	55° 22'	—	—	38.12	

" . . . During February, the month of maximum salinity, the isohaline (39.0‰) runs approximately north-south along 54°E. In May-June, it runs farthest to the west in a northeasterly direction between 50° and 51°E. In September, it occupies the already described position, approximately between 51° and 52°E. This indicates that the salinity in September has again increased from the summer minimum which is due, according to Schott's theory, to the high run-off of the Tigris and Euphrates (Reference 5) . . . ."

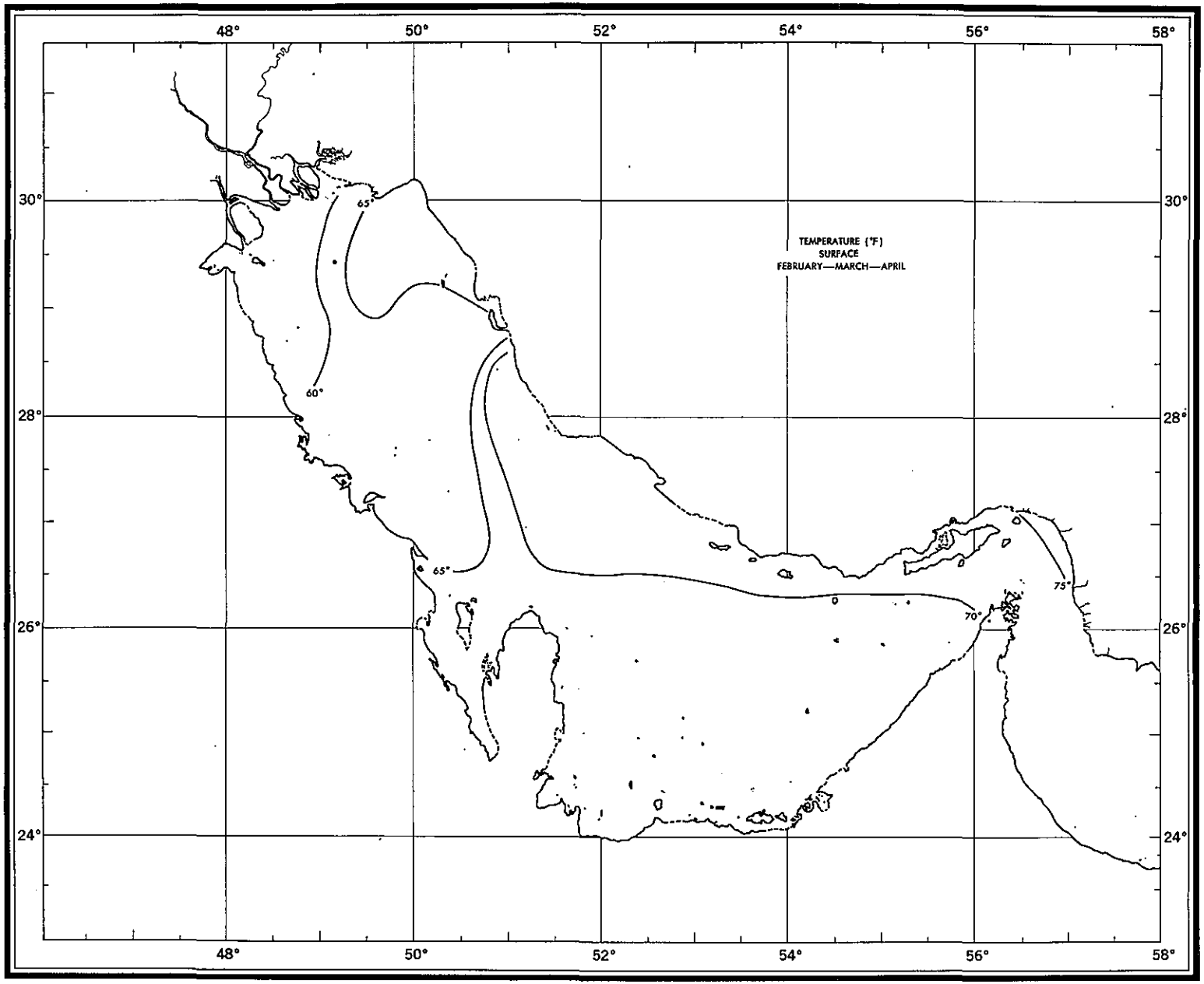

Figure III- 1. Persian Gulf—Temperature (°F)—surface, Feb., Mar., and Apr. (after K. O. Emery)

The following excerpts are taken from Reference 1, Section on The Physical Conditions of the Iranian Gulf, pages 11-12.

"Of the physical conditions of the Iranian Gulf the following statements may be given here. In spite of the large quantities of fresh water that are carried into the Gulf through Shatt al Arab by the rivers Euphrat, Tigris and Karun the salinity is very high, averaging about 40-41‰. This is undoubtedly due to the very rapid evaporation from the surface of the sea, particularly in summer, for during the hot season the temperature of both air and water is very high. At the Bahrein Islands, for instance, the sea water has been found to have a temperature of 36.5°C. (A. Mohr). In winter, however, the temperature is much lower, the average mostly being 15-18°C. in the open sea. The . . . temperatures and salinities measured during the cruise (appear in Appendix A. Ed.) . . . salinities being determined by means of the areometer . . .

"In other words the highest salinity, 42.6‰, was measured at the Bahrein Islands, the lowest one, 37.2-37.3‰ (Stations 47, 51 and 58), in the Strait of Hormuz. Generally speaking the salinity of the Gulf seems to decrease in an easterly direction: between the Strait of Hormuz and Bushire it was about 38‰, at Bushire about 40‰, and at the island of Kharg about 41‰. Even in the estuary at Bender Shahpur (St. 79) it was found to be 41.2‰.

"The lowest temperature of the sea water, 14.9°C., was observed in the locality last mentioned during a windy and rainy period in the month of February. In March the temperature of the surface rises to 18-22°, in April to 23-24°C."

Figure III-1 shows surface temperatures for February, March and April compiled from Blegvad and Schott by K. O. Emery.

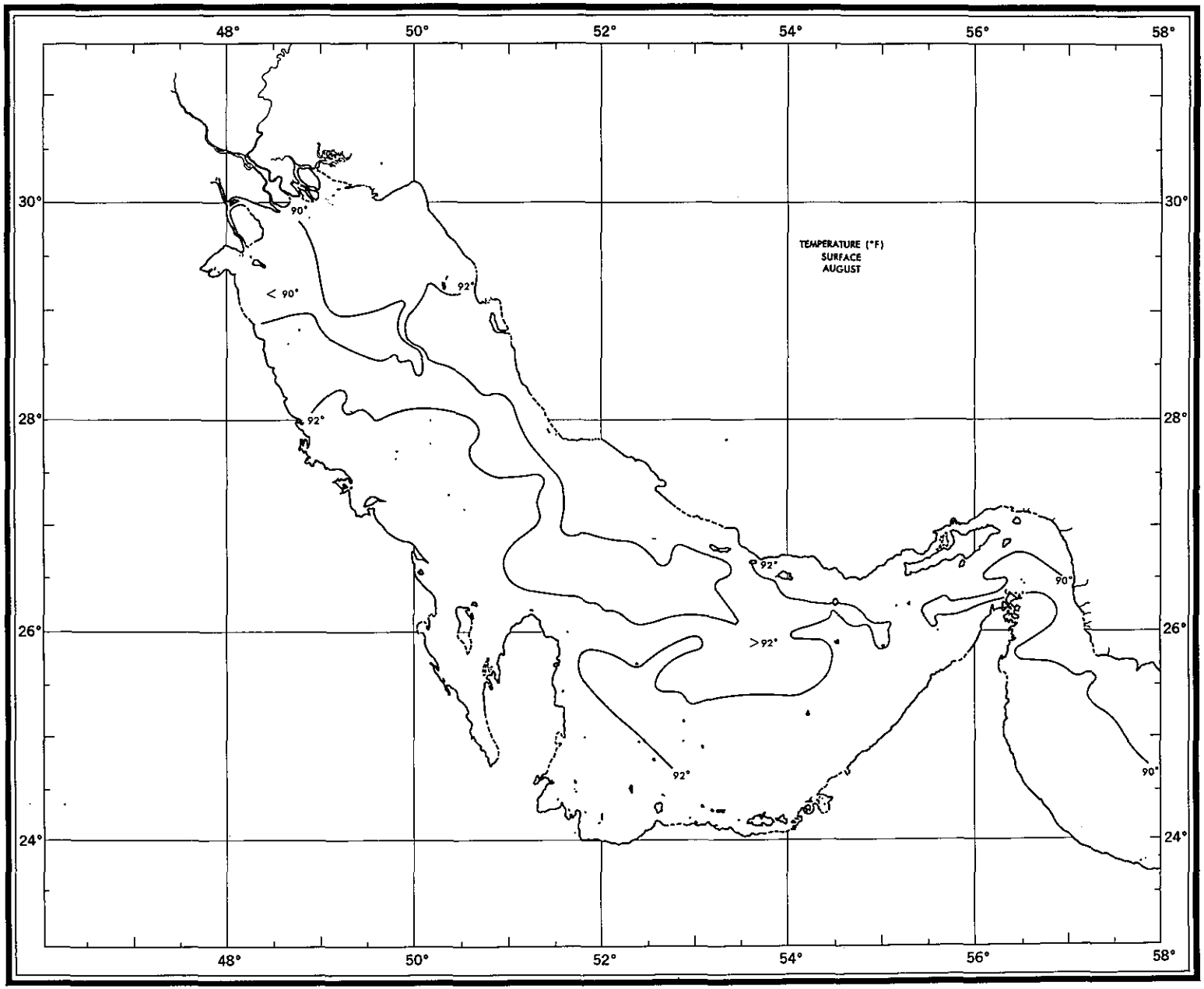

Figure IV- 1. Persian Gulf—Temperture (°F)—surface, Aug.

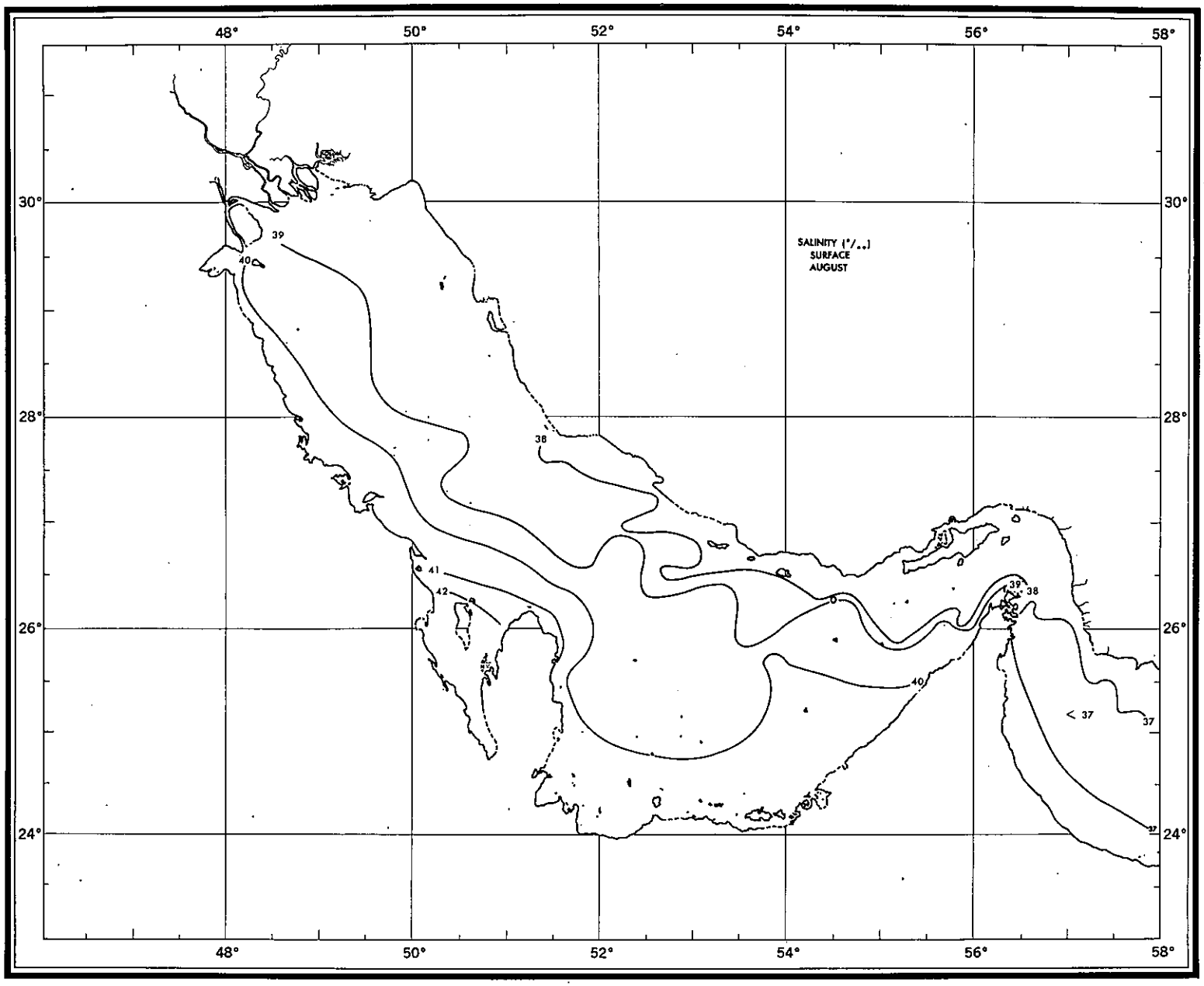

Figure IV- 2. Persian Gulf—Salinity (°/₀₀)—surface, Aug.

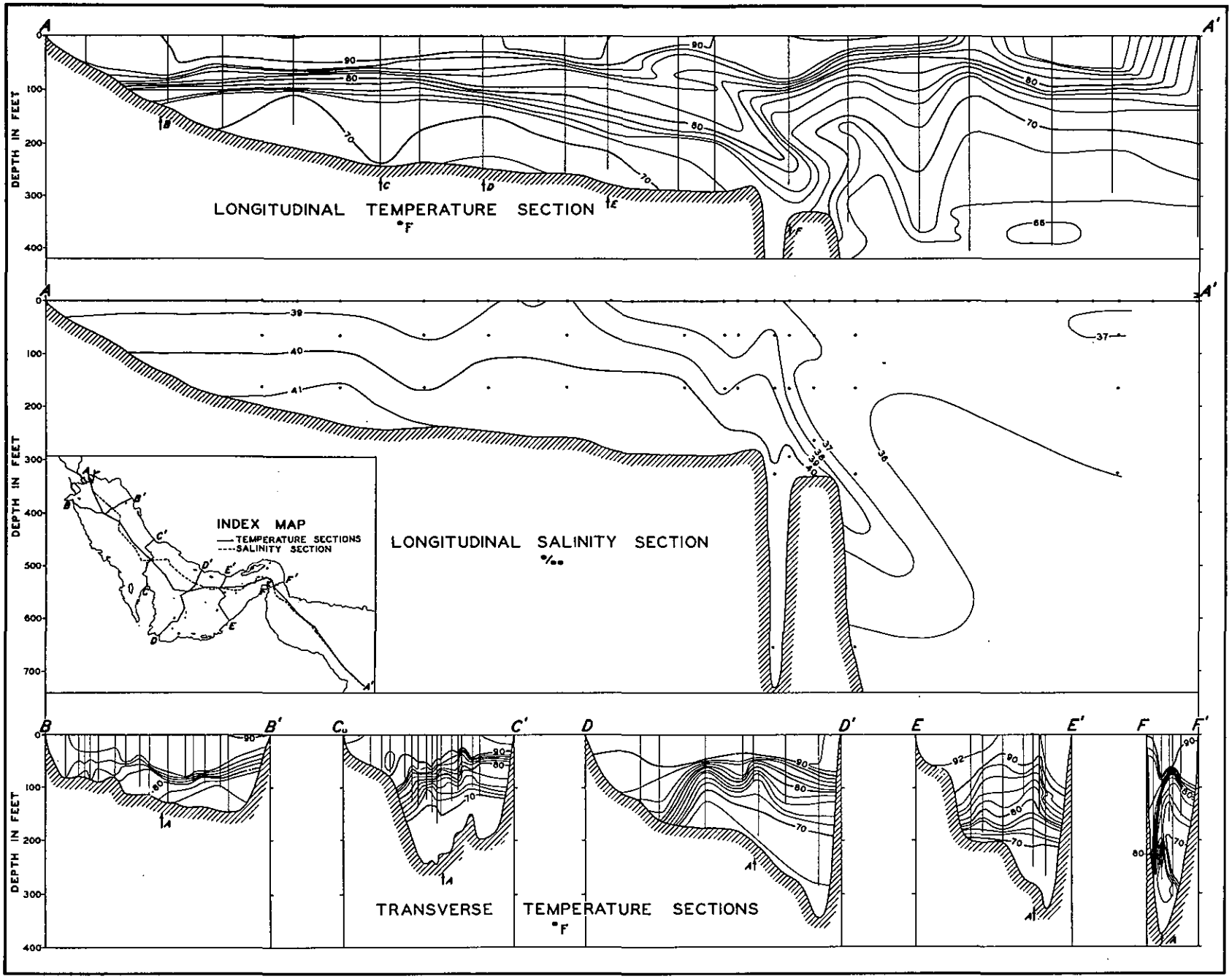

Figure IV-3 Persian Gulf-Temperature (°F) and Salinity (°/₀₀) Sections, Aug.

The following excerpts are taken from Reference 3, Sections on Temperature and Salinity, pages 2358-2363.

"TEMPERATURE

"Studies of water temperature in this region are of special interest because summer air temperatures are as great at 123°F. . . . During the 2 weeks spent in the Gulf of Oman and the Persian Gulf, 625 bathythermograph lowerings were made, but the records for 185 were lost in shipping. Most of the lowerings were accompanied by a thermometer measurement of the surface water collected in a bucket or in a cup attached to the thermometer. Strong surface heating in the afternoon produced a marked temperature gradient near the water surface. Below the zone of surface heating the water was usually isothermal to depths of 20 to 75 feet. In order to avoid the effects of diurnal temperature variations the surface temperature was taken from the bathythermograms at an indicated depth of 10 feet.

"The resulting 'surface' temperature values were plotted and isotherms drawn as shown by Figure IV-1. During this August study there was noted a general increase in temperature from about 75°F. in the Arabian Sea to more than 92° along both sides of the Persian Gulf. In the Strait of Hormuz the surface temperatures were mostly between 89° and 90°, with the lower values extending as a tongue through the middle of the strait into the Persian Gulf. A similar tongue of 89°-90° water extended from the delta southeastward into the other end of the Gulf. This tongue was reflected and continued in the 90°-92° temperature belt which extended from the head of the Gulf to a point two-thirds of the distance to the Strait of Hormuz. Along both sides of the Gulf the nearshore water temperature reached nearly 94°. In fact, several thermometer measurements of surface-water temperatures in the early afternoon yielded values of 95.2°, indicating gradients of about 2° in 5-10 feet. The whole picture of the distribution of surface temperatures in August, 1948, is different from that presented by Schott (1918b) for the summer months, but it is based on considerably more data than were available to Schott.

"Some idea of the distribution of surface temperatures in winter is given in Figure III-1, a compilation of measurements by Schott (1908) and Blegvad (1944). Although details can not be determined from so few data, it is obvious that the temperatures of winter are far different from those of summer, with values of only 60° at the head of the Gulf, increasing to about the same 75° in the Arabian Sea that we found in August. Thus, the water at the head of the Gulf undergoes an annual change of at least 30°.

"Temperatures at a depth of 164 feet (50 meters) were based only on bathythermograms. These data are less numerous than for surface temperatures because much of the area of the Gulf is shallower than 164 feet and also because many of the lowerings made in the rest of the area were too shallow. Temperatures at 164 feet were less than 70° in the Arabian Sea, increasing to more than 80° in the Strait of Hormuz. Values again decreased from the strait to as low as 67.2° within the Persian Gulf. The latter temperatures are lower than those of water found at any depth in the strait, so they probably mark the position of patches of bottom water remaining after the previous winter.

"SALINITY

"During the two-week stay in the Persian Gulf and the Gulf of Oman, samples of the surface water were collected at 122 stations for salinity determinations. At eighteen of these stations vertical series of water samples were also obtained, usually from depths of 66, 164, and 328 feet (20, 50, and 100 meters). All of the water samples were titrated for chloride content, from which total salinity was computed.

"Results of the salinity measurements are shown in Figure IV-2. Some of the irregularity of the isohalines results from the use of water samples collected a few days apart by different ships. Surface salinity increased from about 36.5‰ . . . in the middle of the Gulf of Oman to values higher than 42.0‰ in the Persian Gulf. The main surface salinity gradient was transverse to the Persian Gulf, with salinities of less than 38.0‰ common on the northeastern side, increasing to more than 41.0‰ on the southwestern side. The greatest salinities of all, 42.4‰, occured in Kuwait and Bahrein bays, where water circulation is impeded. It is interesting to note that the salinity off the delta at the head of the Gulf was about 38.0‰, greater than the salinity along most of the northeastern side of the Gulf. Thus, it appears that the discharge of fresh river water was small during this period.

"The vertical series of salinity determinations show that within the Persian Gulf, salinity consistently increased with depth. The value at 164 feet was about 40.0‰ along the northeastern side and about 41.0‰ along the axis of the Gulf. In the Gulf of Oman salinity remained more nearly constant with depth, and in one series even decreased with depth. The lowest salinity obtained in the region was 35.5‰ at a depth of 672 feet (200 meters) in the Gulf of Oman.

"Only three earlier sets of salinity measurements from the Persian Gulf could be found. Two sets were taken by German steamships. One of these, covering the period February, May, and June,

1907, was discussed by Schott (1908), while the other set, obtained in September of both 1910 and 1911, was described by Schulz (1914). The third set was taken by Blegvad (1944) in March and April, 1937, and February, March, and April, 1938. Although the data are less complete than our records for August, they yield interesting comparisons. The sketchy information for the Gulf of Oman and most of the Strait of Hormuz shows that the salinity is fairly constant from February through September. In the Persian Gulf during all four seasons the salinity increases from northeast to southwest across the Gulf, although on the basis of scantier information Schott (1918b) indicated an increase in the opposite direction for late winter and early fall. No very great seasonal variation appears to exist in the southeastern half of the Gulf, but the condition is different in the northwestern half. A comparison of the four sets of isohalines shows that over much of the latter area the salinity for the February-March-April period was between 40‰ and 41‰, whereas for the May-June period it was between 39‰ and 40‰, and for August it was mostly between 38‰ and 39‰, but for September it rose again to 39‰ to 40‰. Thus, it appears that the salinity during winter is greater than in summer. Schott (1908) considered this condition to result from variation in flow of fresh water through the Shatt al Arab. He stated that the flow is least from September to November and that in December local rainfall causes an increase, and the discharge continues rather high through January, February, and March. In April the melting snow of the Armenian mountains causes another increase that finally reaches a high point in May and June. In July the river discharge falls again. The high salinity in the northwestern half of the Gulf may also be controlled by variation in the rate of evaporation. When the temperature of the air is greater than that of the water, as during the summer, evaporation from the sea is at a minimum. During the winter the air is colder than the sea, so evaporation is greater then . . . . Thus, the annual variation of evaporation exerts a seasonal control on surface salinity that is nearly parallel with the control by variation of runoff."

Sections of temperature and salinity for the Persian Gulf for August prepared by K. O. Emery are shown in Figure IV-3.

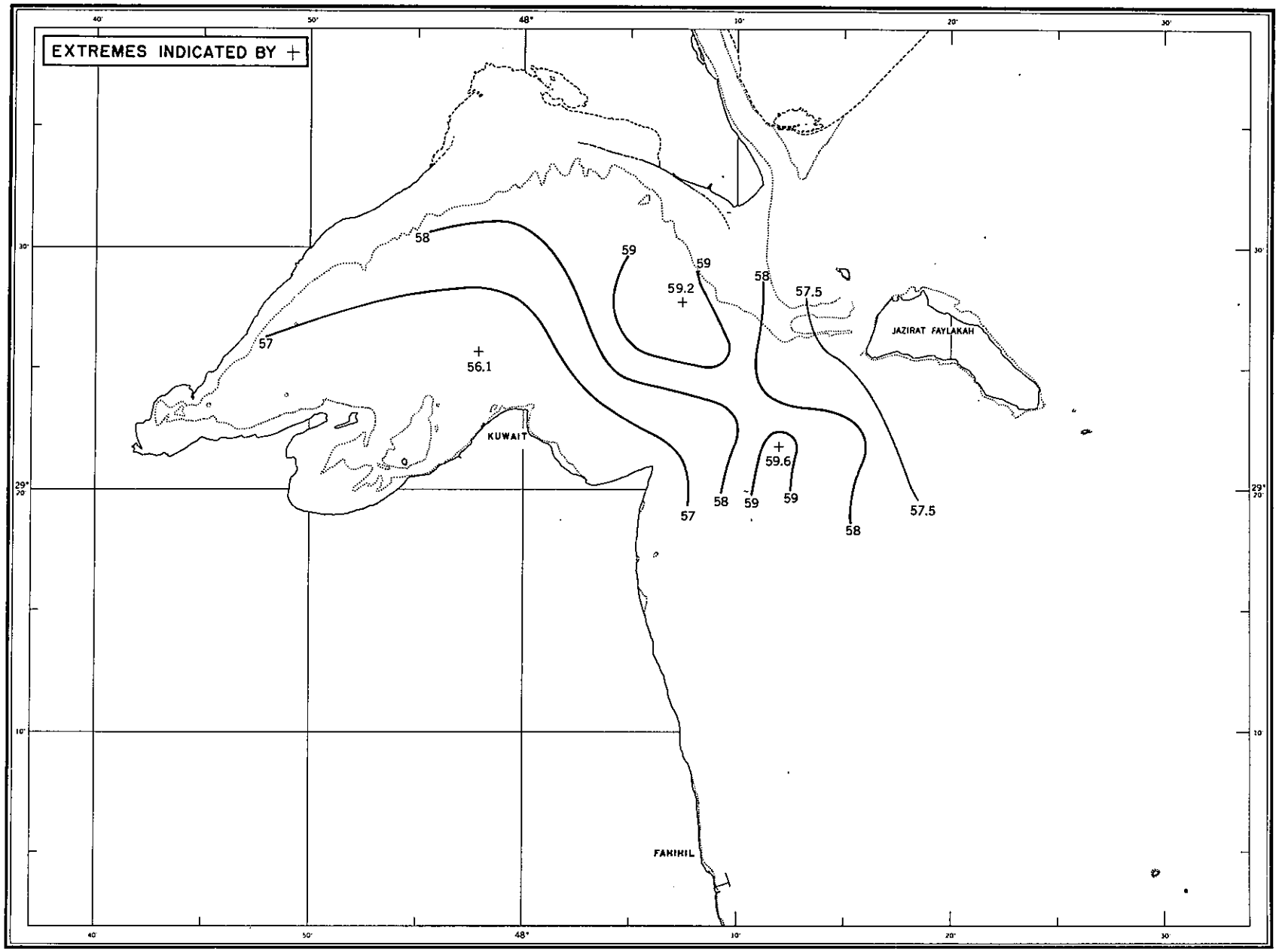

Figure V- 1. Kuwait Harbor—Temperature (°F)—surface, Feb.

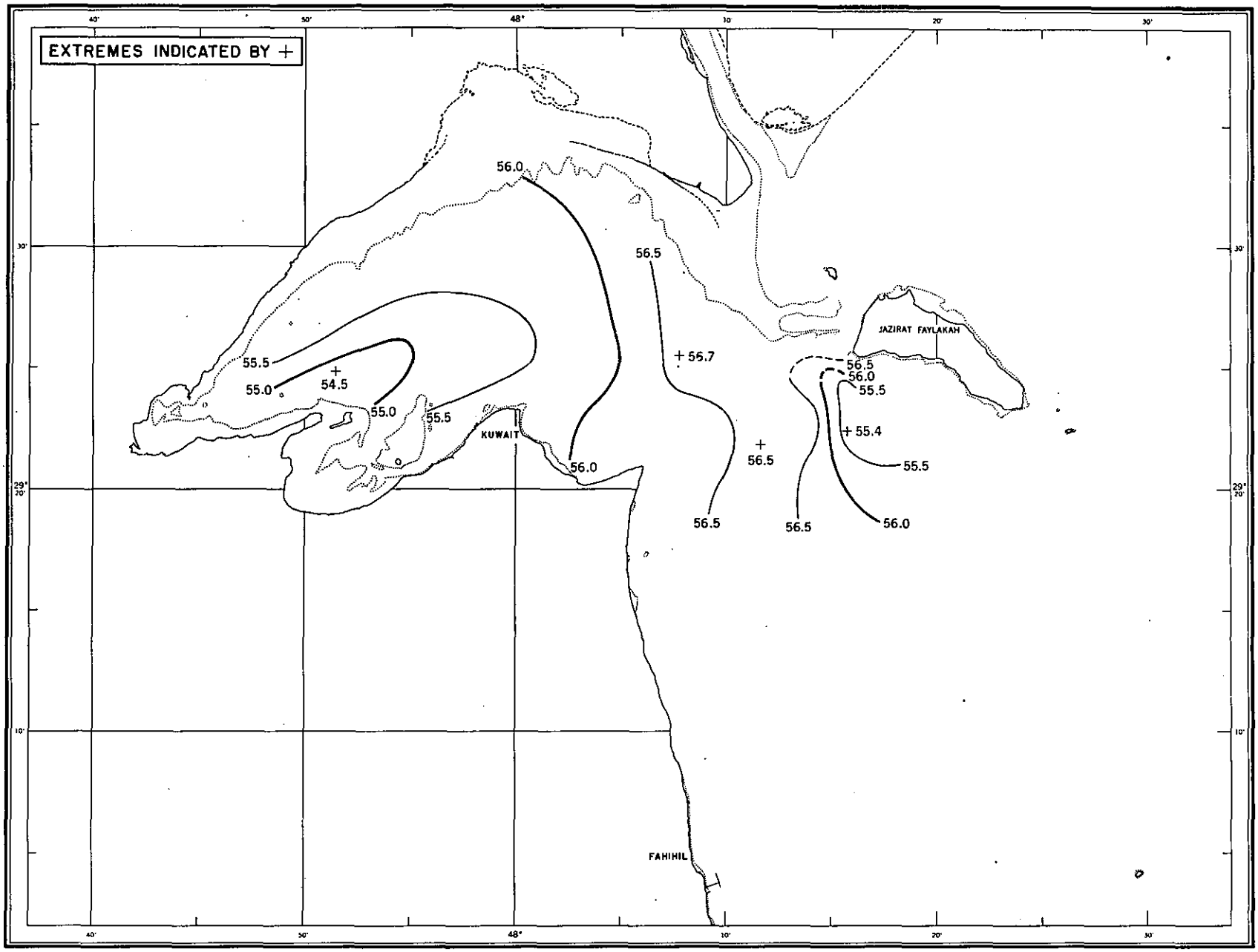

Figure V- 2. Kuwait Harbor—Temperature (°F)—bottom, Feb.

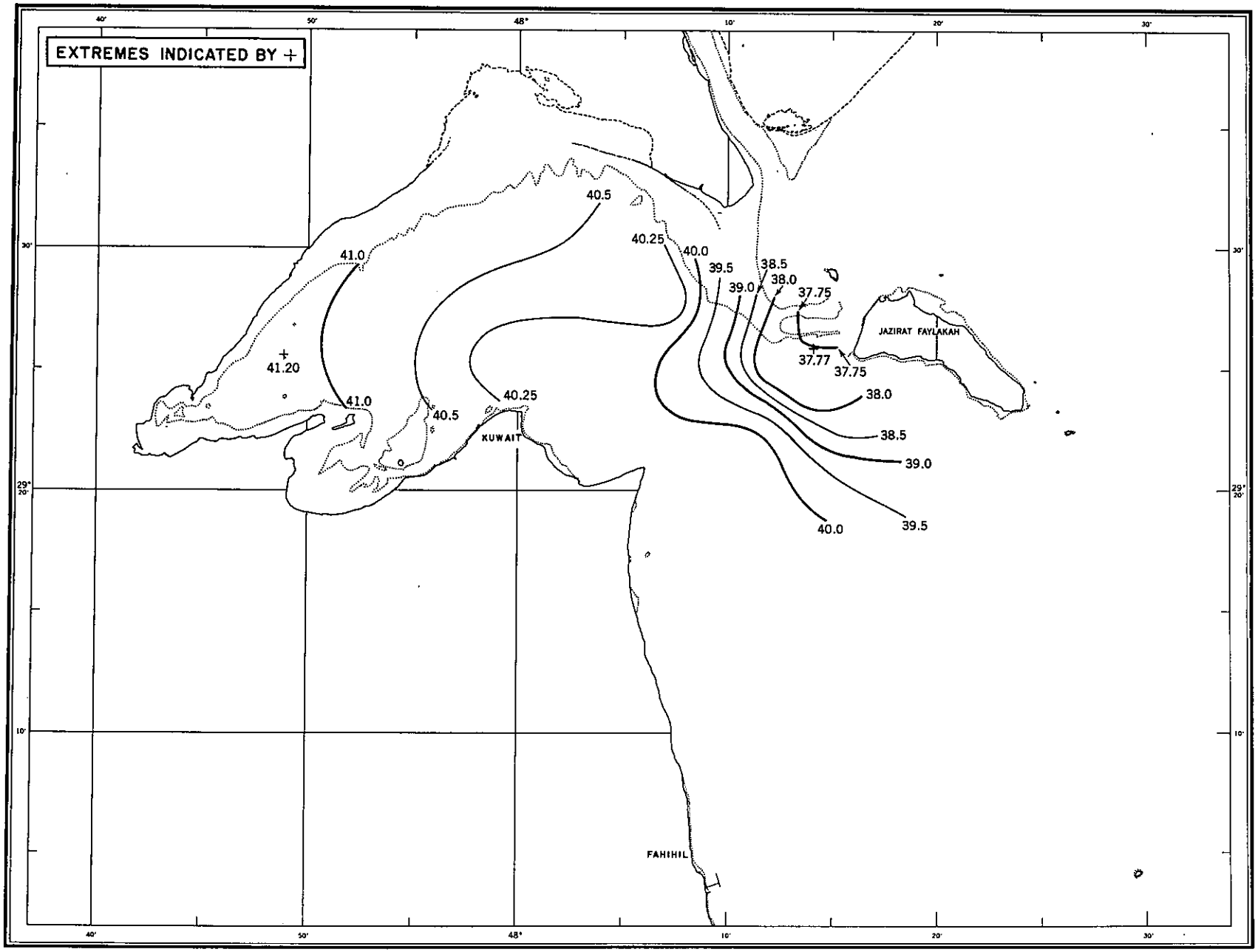

Figure V- 3. Kuwait Harbor—Salinity (°/₀₀)—surface, Feb.

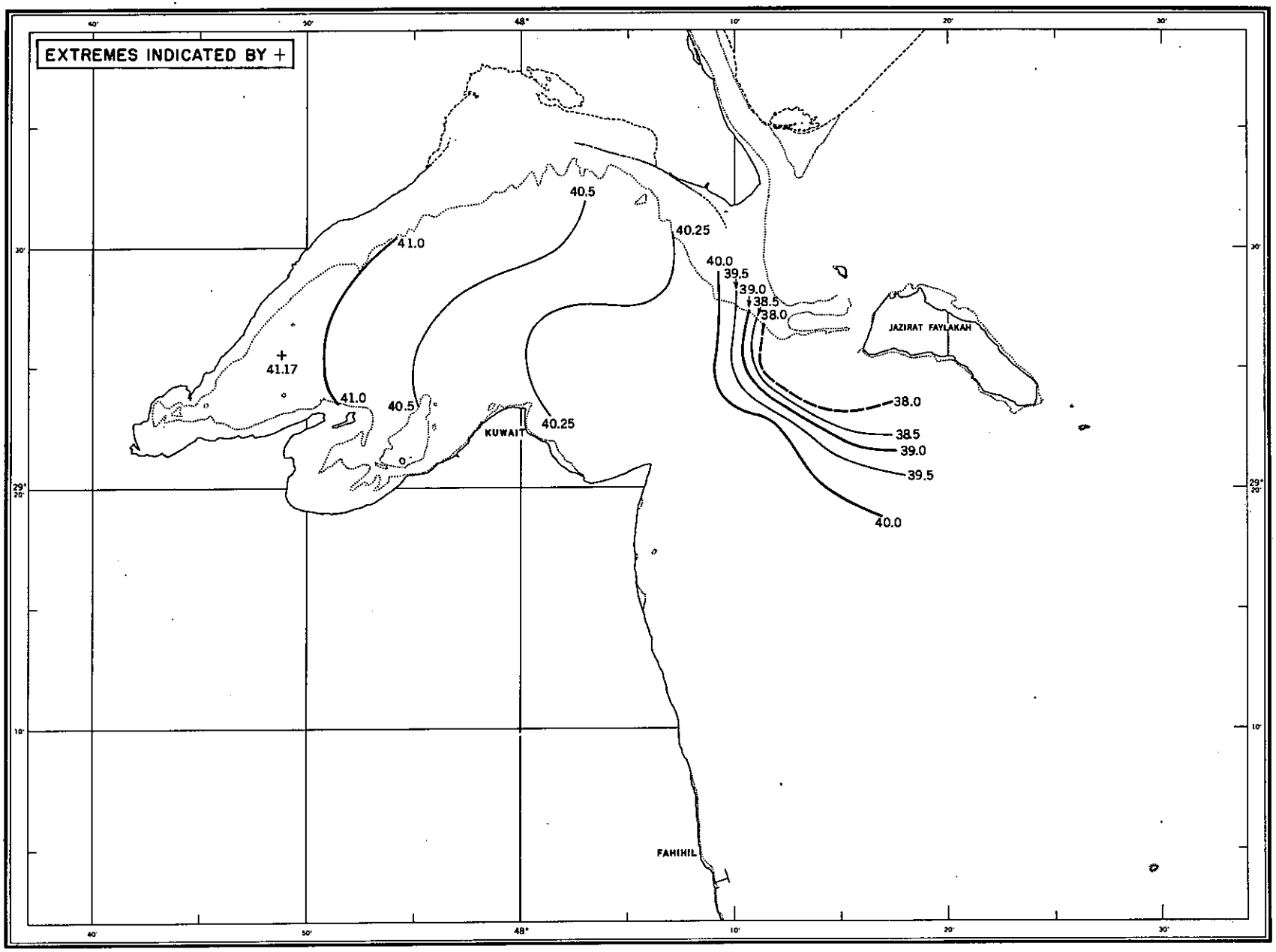

Figure V- 4. Kuwait Harbor—Salinity (°/₀₀)—bottom, Feb.

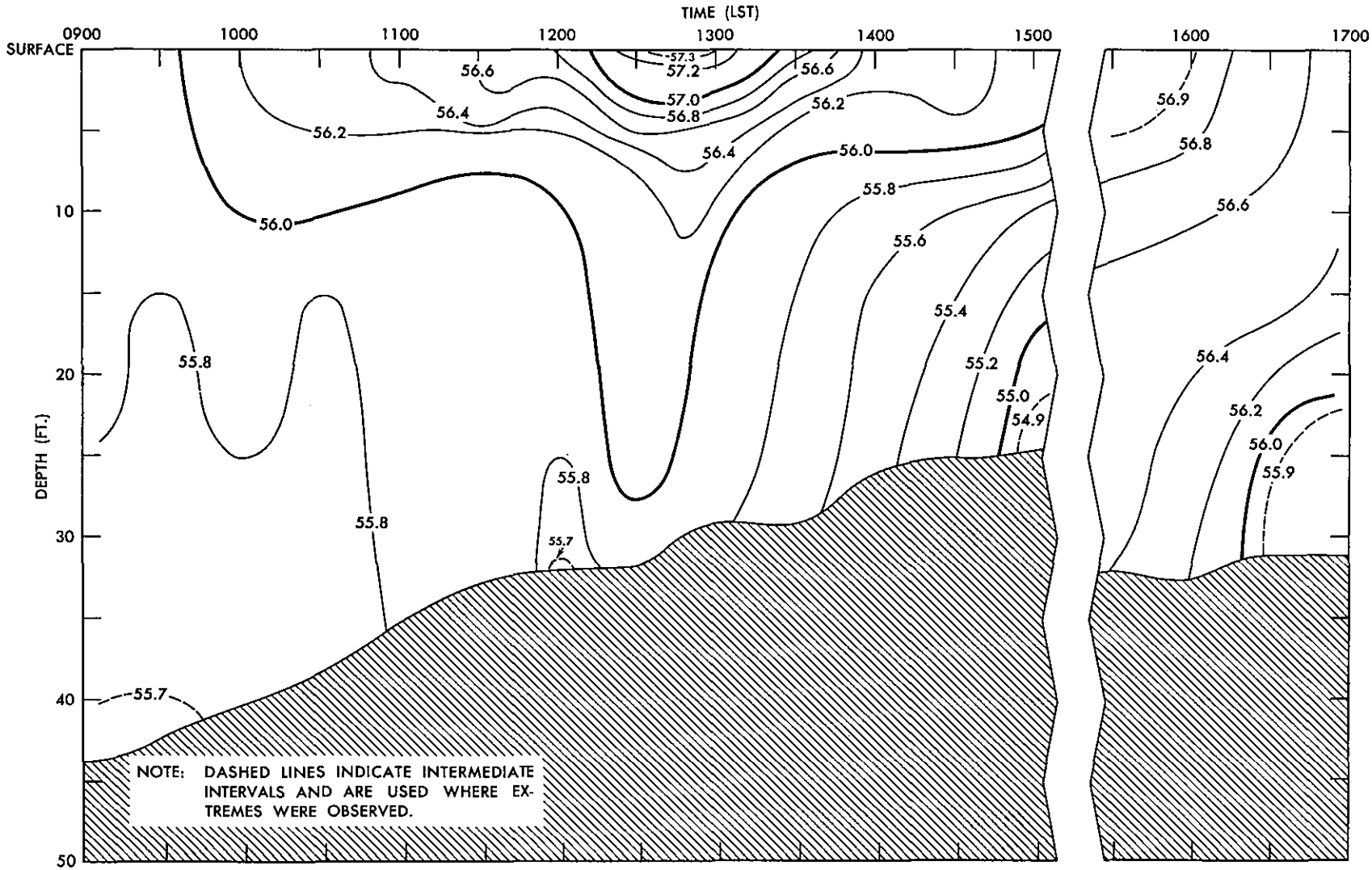

Figure V- 5. Kuwait Harbor—Diurnal Warming Study, 3 Jan. 1949

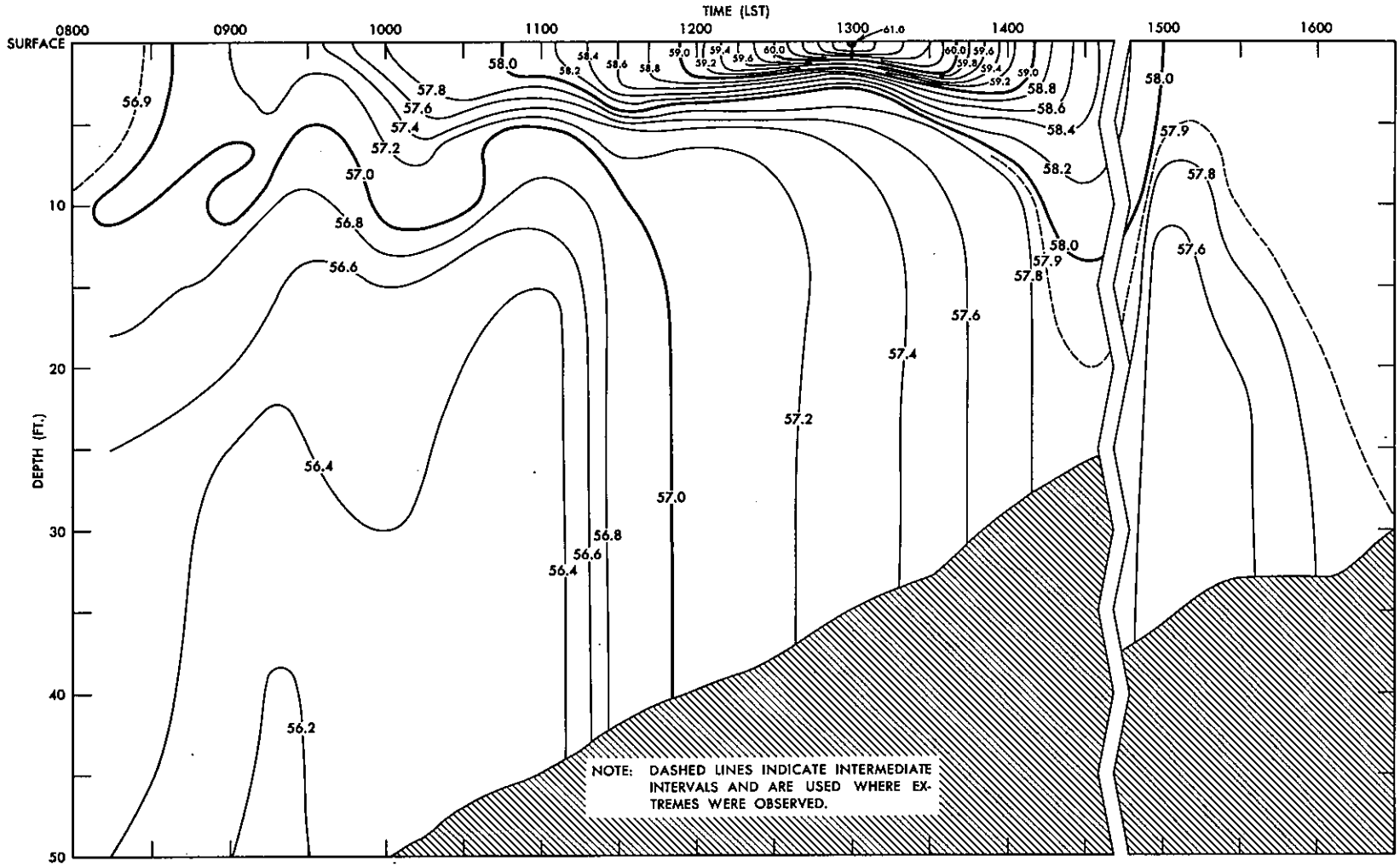

Figure V- 6. Kuwait Harbor—Diurnal Warming Study, 27 Feb. 1949

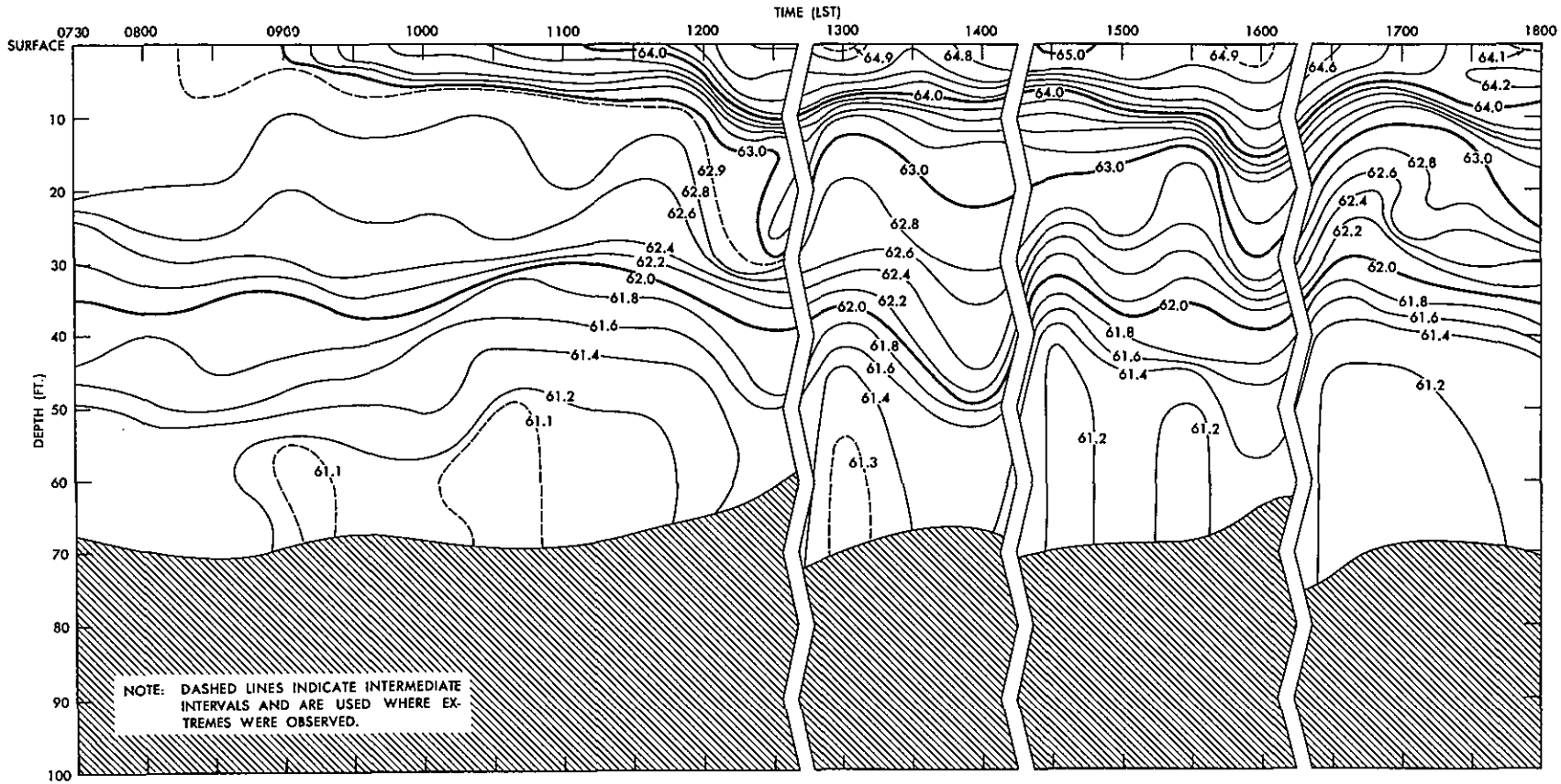

Figure V- 7. Fahihil—Diurnal Warming Study, 21 Mar. 1949

The following excerpts are taken from Reference 2, Sections II. Temperature and III. Salinity, pages 2-5.

"II. Temperature

"Figure I-5 shows the locations of oceanographic stations and diurnal warming observations made in and near Kuwait Harbor. Figures V-1 and V-2, respectively, present typical midwinter surface and bottom temperatures in Kuwait Harbor, and Table 5 gives the observed data upon which these figures are based. The usual Nansen bottles and reversing thermometers were used for making the oceanographic stations.

"In winter, water temperature in Kuwait Harbor and vicinity varies little either horizontally or vertically. The surface temperature ranges from a low of about 56°F. in the southern and western portions of the bay to nearly 60°F. just off Jazirat Faylakah. The difference between the surface and bottom is of the same order of magnitude; a maximum vertical temperature gradient of 3°F. was recorded at the mouth of the harbor in a depth of 26 feet.

"This is quite in contrast to the summer conditions reported by Dr. K. O. Emery for August 1948. Observations taken by him show surface temperatures in excess of 90°F. and bottom temperatures of about 85 F. These temperatures result in a gradient of 5° to 7°F. in approximately 45 or 50 feet of water. The gradient increases markedly farther east of Fahihil where bottom temperatures reach 75° to 77°F. in a depth of about 75 feet. Development of this extremely warm surface layer probably begins in April or May when the mean maximum air temperature begins to show an appreciable increase. Also the general decrease in cloudiness with the advent of spring provides for increased solar heating (insolation) of surface waters. A reduction in frequency of frontal passages with their typical gusty "shamal" type winds is another factor contributing to the development of a strong gradient between the surface and bottom water through the spring and early summer months. Without these squally "shamal" type winds, mixing is reduced to a minimum. In autumn, beginning in October, the processes are reversed.

"Even in winter, solar insolation frequently raises midafternoon air temperatures to the seventies; thus it is reasonable to expect some diurnal fluctuations in the water temperature near the surface. The two time-depth sections taken in Kuwait Harbor in January and February and one section taken off Fahihil in March illustrate well midwinter diurnal warming of the surface waters (Figs. V-5, V-6, and V-7, respectively). These sections are based on BT observations taken at approximately half-hourly intervals

while drifting along the tracks shown in the insets on Figure I-5. No drift chart is available for the February observations, but the drifting boat started from approximately the same position as that for the January observations. . . . . .

"Diurnal temperature ranges of 1.3° and 3.1°F. were recorded at the surface for the two Kuwait Harbor series of observations; off Fahihil the range was 2.2°F. The February series is particularly interesting in that it shows an appreciable diurnal range and the mixing effect of a strong wind in midafternoon. In this series the highest surface temperature was observed at 1300 LST (about the time of maximum air temperature and maximum solar insolation). Soon after 1300 a "shamal" type wind began; wind speeds increased to Beaufort force 4 by 1400 and remained so to the end of the observation period. Within two hours after the maximum temperature was observed, mixing had reduced the surface temperature by 3°F., and by 1600 (3 hours after the beginning of the "shamal") the entire water column was nearly isothermal.

"It is possible then that diurnal heating could account entirely for the total range of temperatures shown on the surface temperature chart, Figure V-1; the oceanographic station observations were taken in the same week as the BT observations for the second time-depth section. (This is the reason that local time also is given for the oceanographic stations shown in Figure I-5.)

"A comparison of the three diurnal warming sections illustrates well the monthly increase in water temperature, particularly that in the surface layer. It appears that as a general rule the maximum air temperature and maximum surface water temperature are within a few degrees of each other except, of course, when increased wind speeds prevent formation of or destroy the warmer surface layer by mixing.

"III. Salinity

"Salinity observations were taken on 23-24 February 1949 only, when the series of oceanographic stations (Figure I-5) was occupied. Water samples were collected at the surface and near the bottom, and only at the surface where depths were less than 2 meters. Of the 32 samples taken, eight were missing or the sample bottles broken in transit before reaching the laboratory. Three of these, the surface samples for Stations 2, 4, and 14, would have been helpful in adding detail to the analysis in certain areas.

"Surface and bottom salinity charts, presented as Figures V-3 and V-4, respectively, are based on these data. Over the harbor area the total salinity range at the surface is about 3.5‰ (parts per thousand); maximum salinities are observed in the shoal waters

near the head of the embayment. The freshest water, which incidentally exceeds the average salinity of water in the open ocean by more than 2‰, was observed in the very shallow water immediately west of Jazirat Faylakah. Apparently brackish drainage water from Khawr as Sabiniyan and/or Shatt al Arab reaches the area here and reduces the gulf surface salinity from its normal value of about 40‰ to about 38‰. Even though rainfall is meager in this area (4 to 11 inches annually), most of the precipitation can be expected during the months of January and February. It is reasonable then to expect salinities in the extreme eastern portion of Kuwait Harbor (in the vicinity of Jazirat Faylakah) to be reduced slightly below the indicated surface values which were observed during a period of no rainfall. Salinities of 39‰ or less extending into Kuwait Harbor would be most unusual, because the tides produce strong currents between Ras al Ardh and Jazirat Faylakah that effectively mix the surface waters every few hours.

"As would be expected salinity values at depth are nearly the same or slightly higher than the surface values. Even the greatest difference between the surface and bottom is hardly significant; at the harbor entrance (Station 12) a gradient of only 0.4‰ is observed through a 12-foot depth."

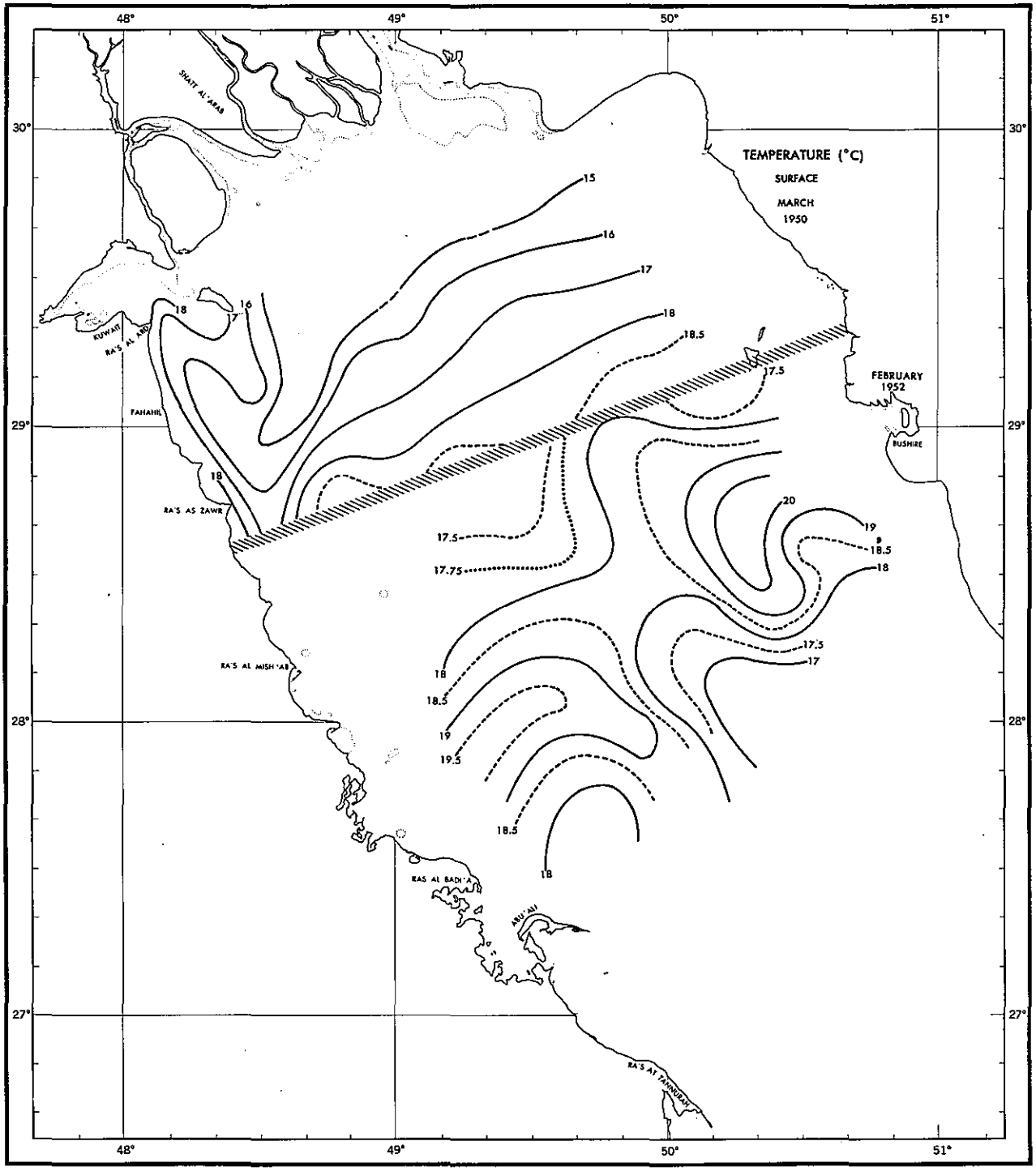

Figure VI- 1. Northern Part, Persian Gulf—Temperature (°C)—surface, Feb. 1952, Mar. 1950

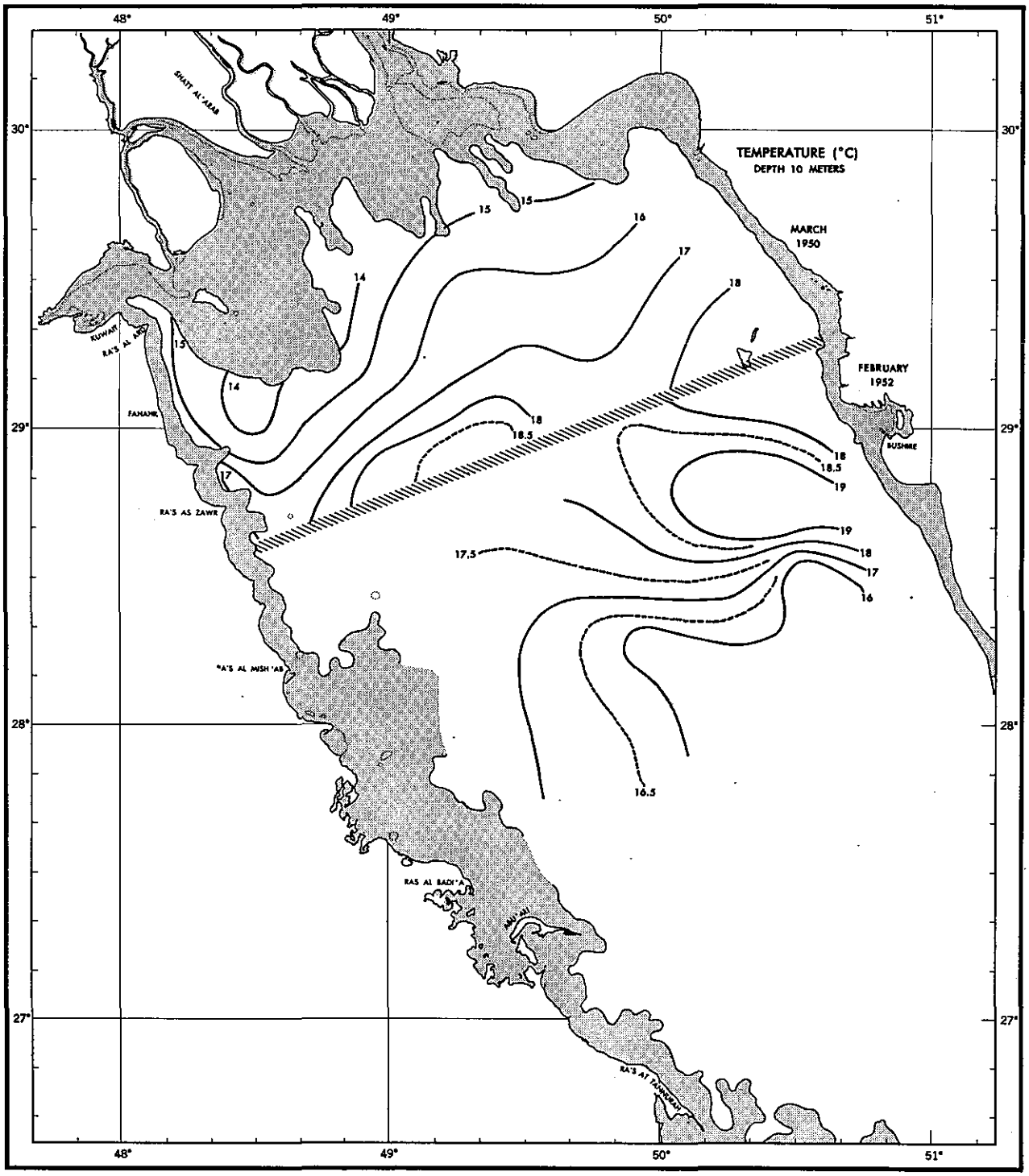

Figure VI- 2. Northern Part, Persian Gulf—Temperture (°C)—
10 meters, Feb. 1952, Mar. 1950

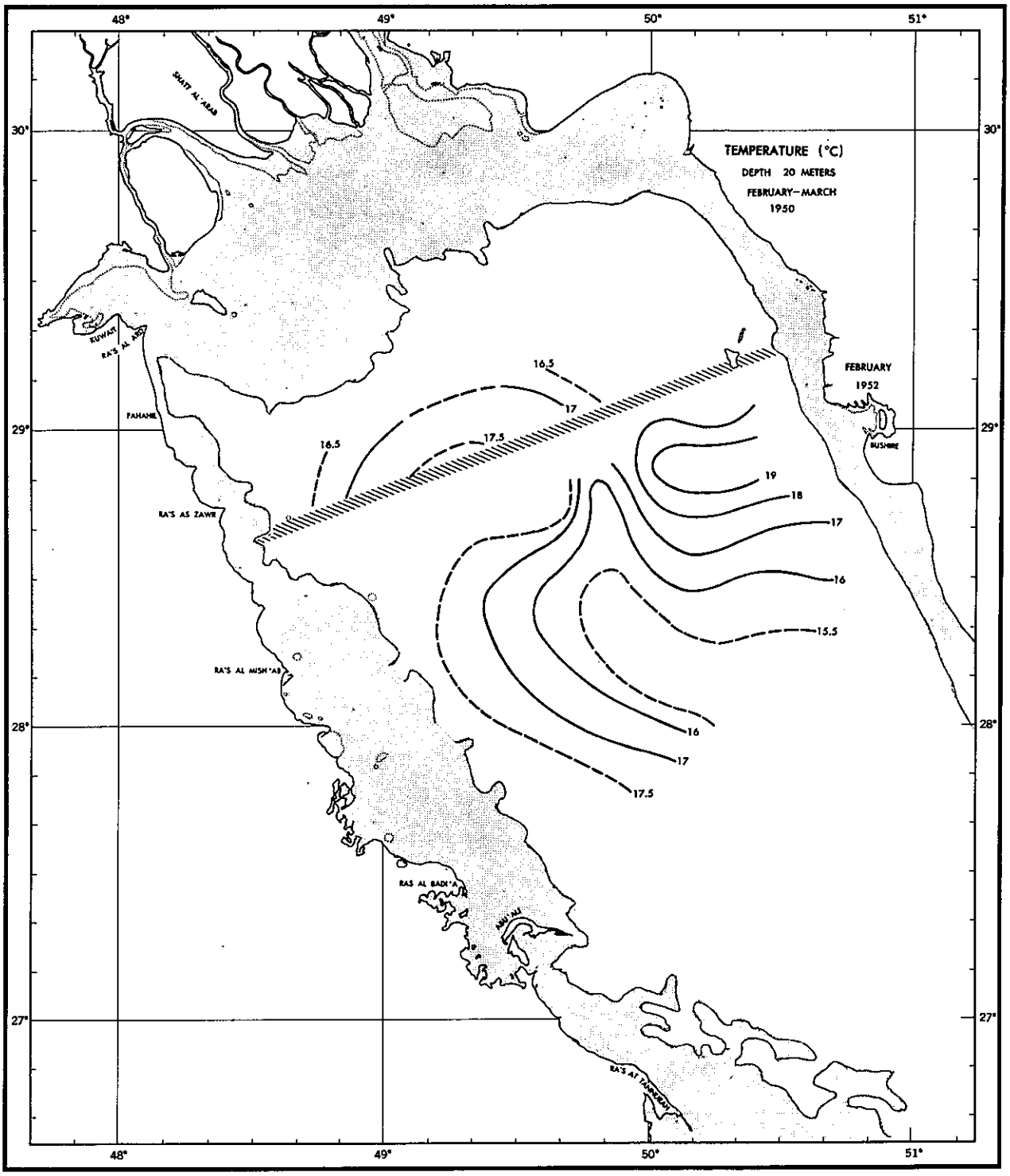

Figure VI- 3. Northern Part, Persian Gulf—Temperature (°C)—
20 meters, Feb. 1952, Mar. 1950

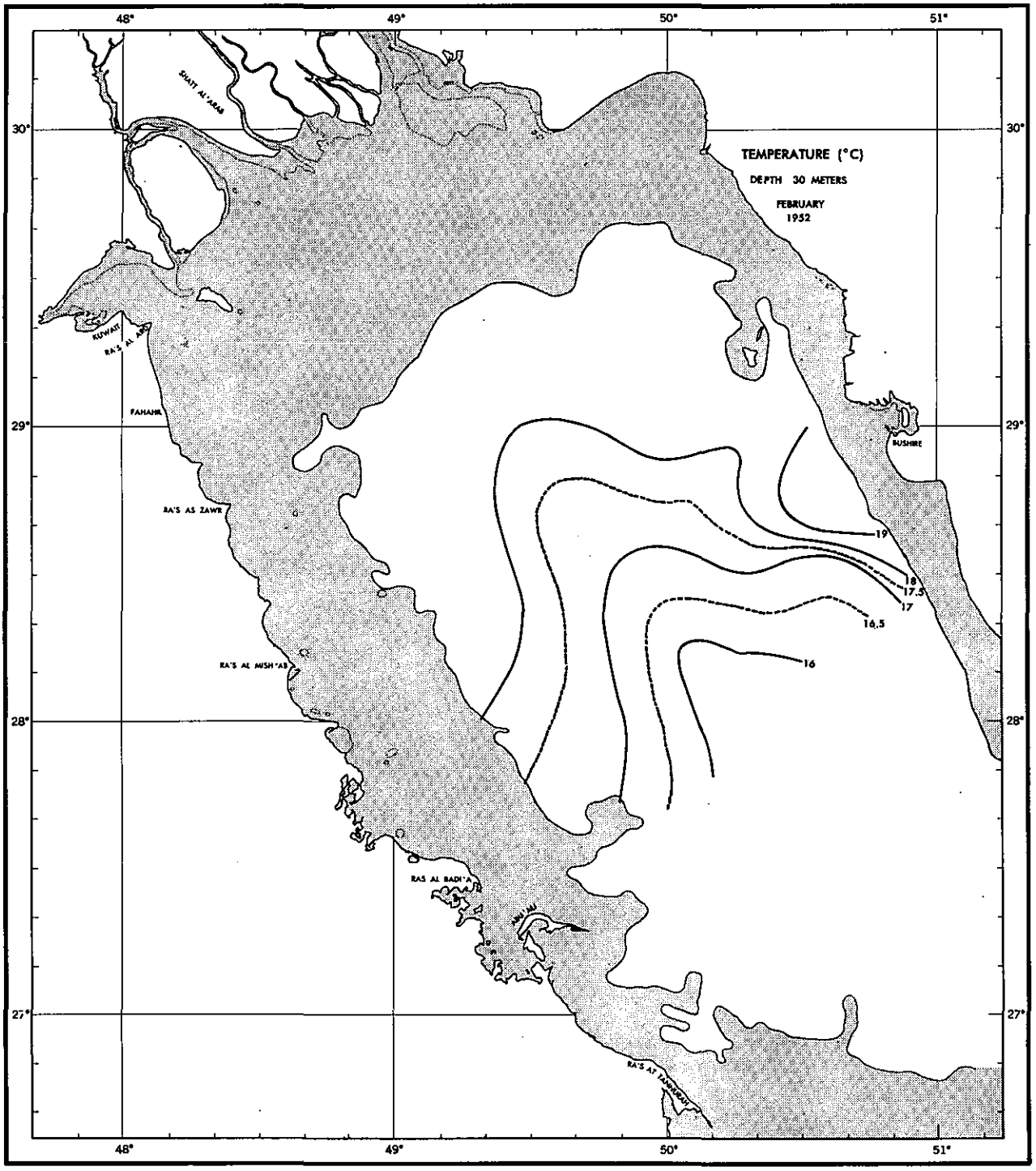

Figure VI- 4. Northern Part, Persian Gulf—Temperature (°C)—
30 meters, Feb. 1952

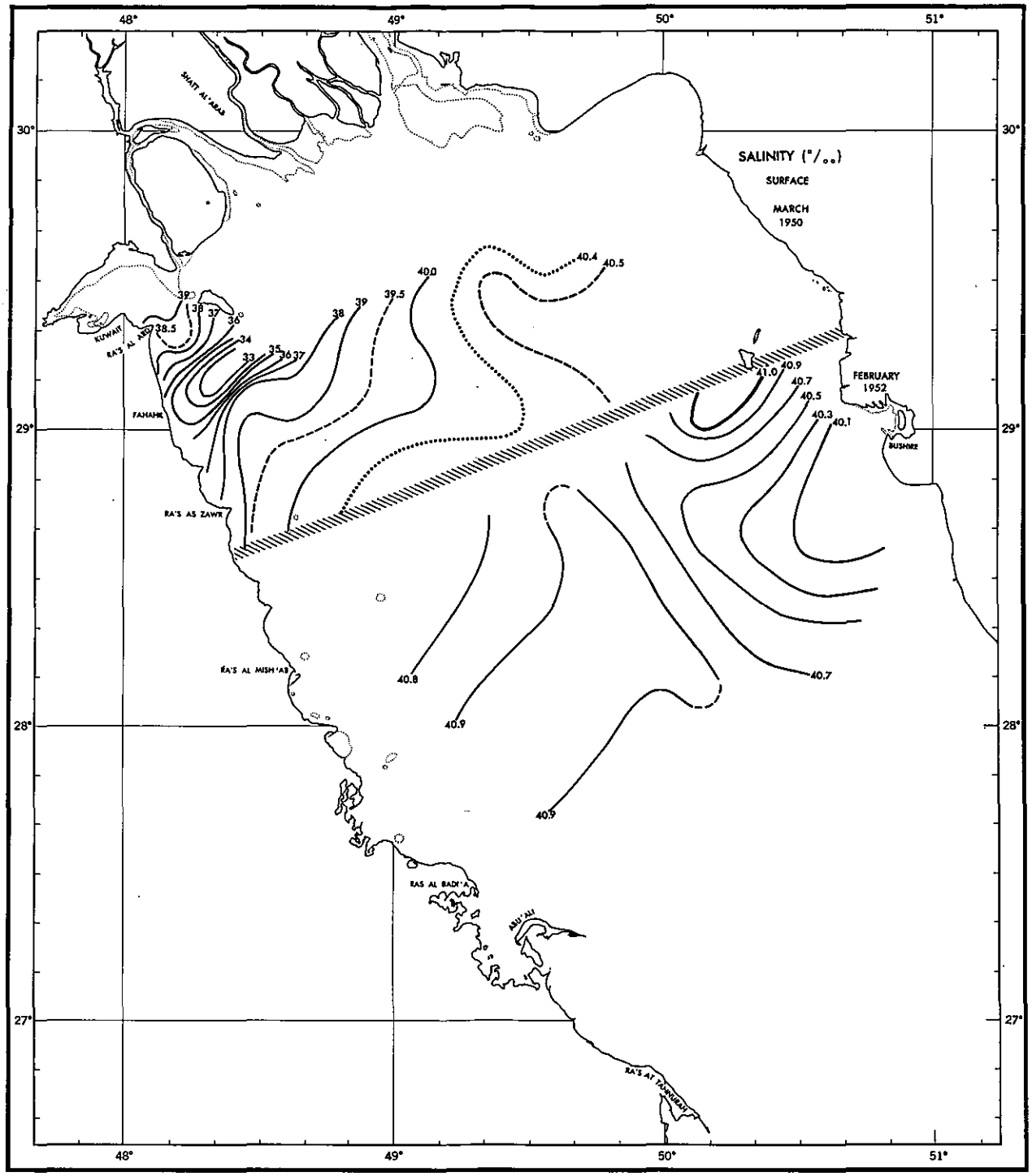

Figure VI- 5. Northern Part, Persian Gulf—Salinity (°/₀₀)—surface, Feb. 1952, Mar. 1950

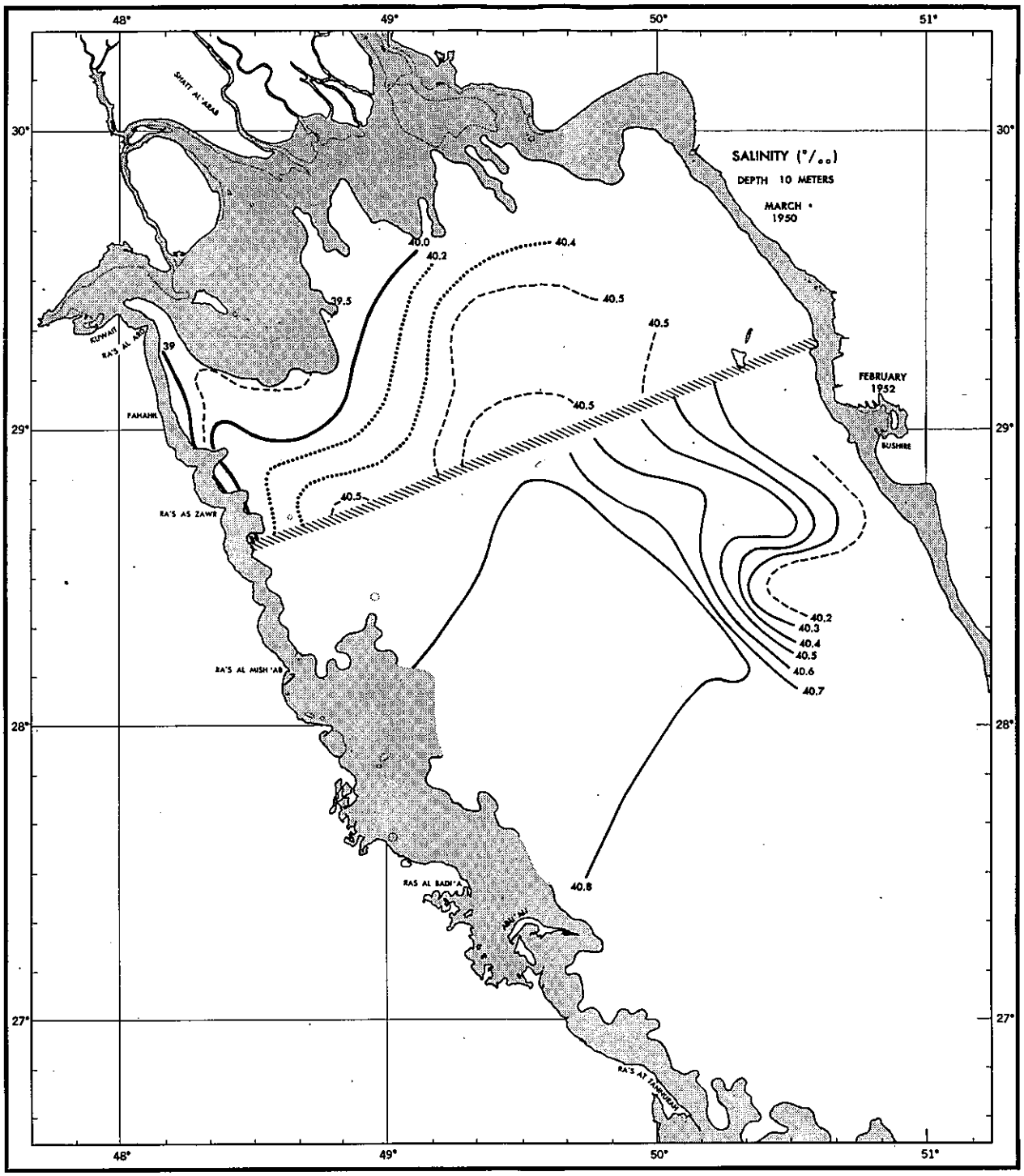

Figure VI- 6. Northern Part, Persian Gulf—Salinity (°/₀₀)—
10 meters, Feb. 1952, Mar. 1950

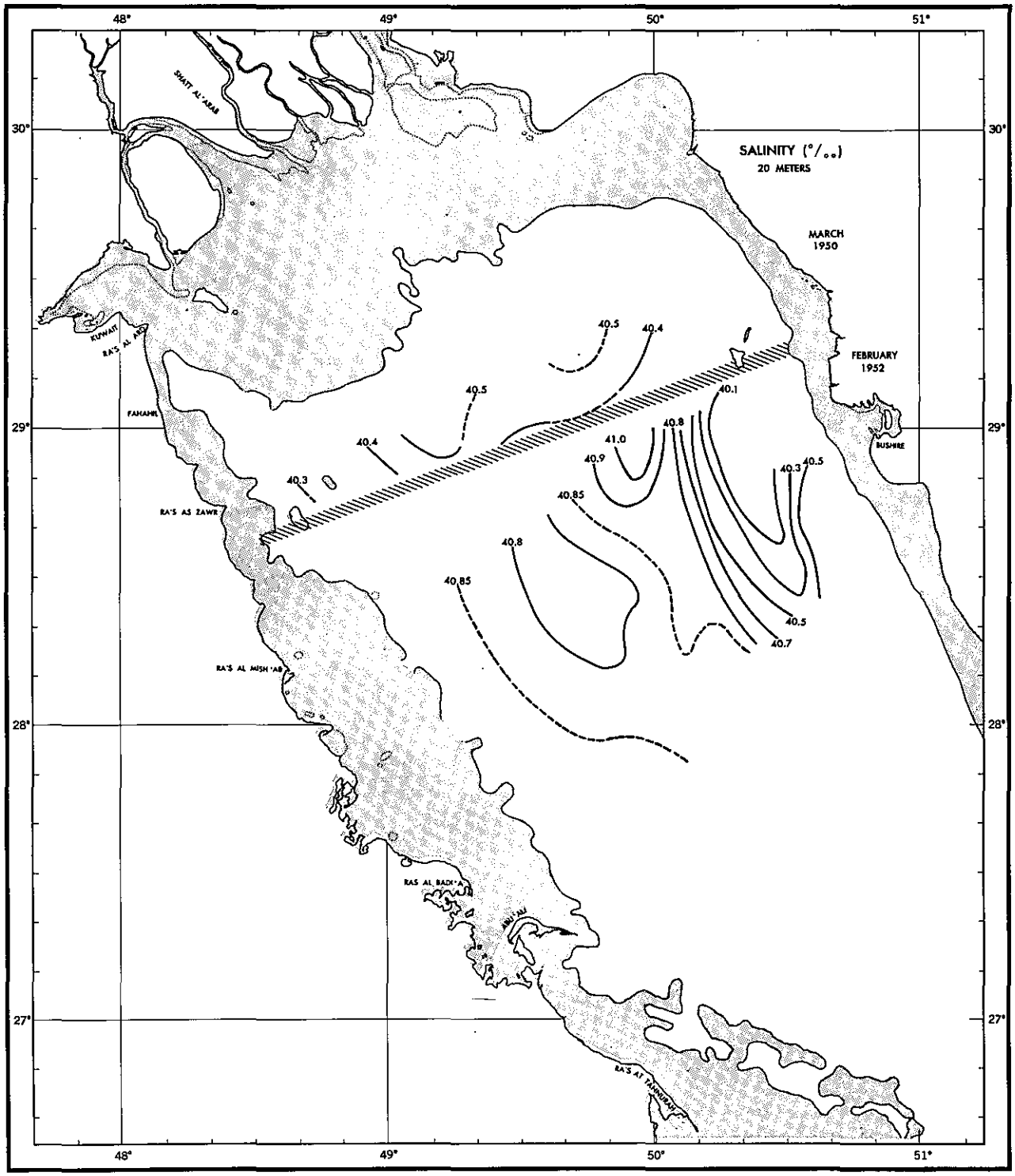

Figure VI- 7. Northern Part, Persian Gulf—Salinity (°/₀₀)—
20 meters, Feb. 1952, Mar. 1950

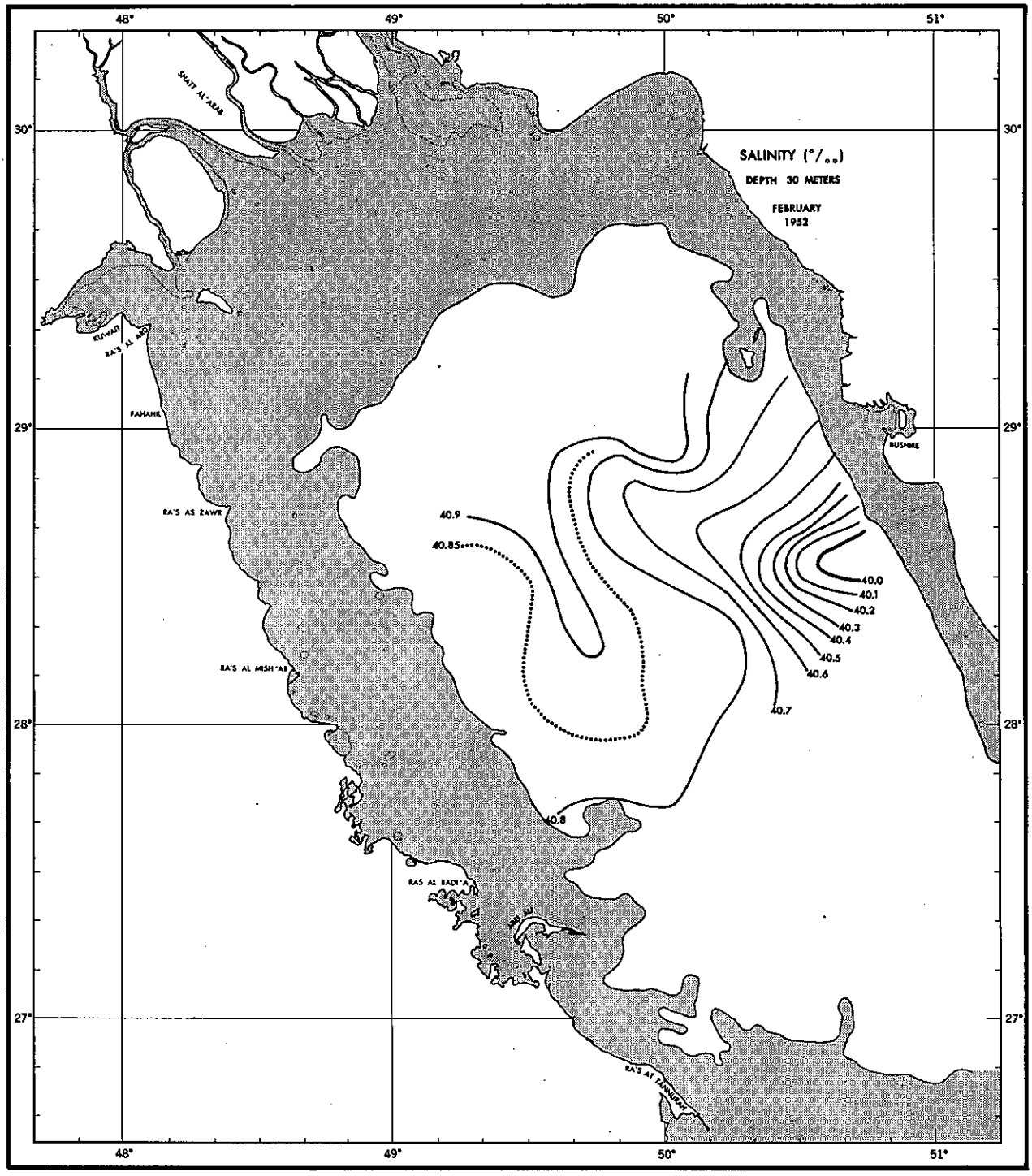

Figure VI- 8. Northern Part, Persian Gulf—Salinity (°/₀₀)—
30 meters, Feb. 1952

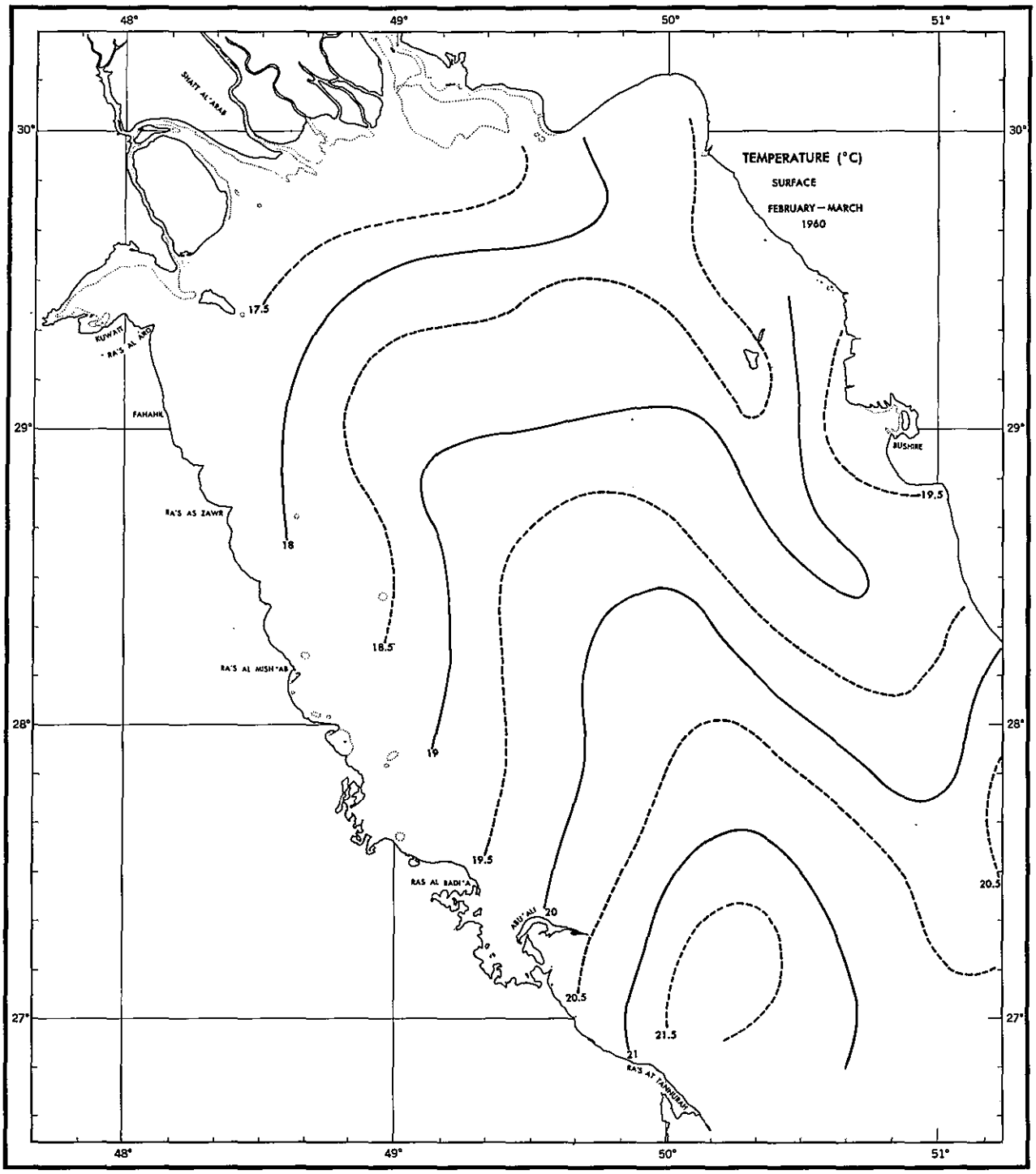

Figure VI- 9. Northern Part, Persian Gulf—Temperature (°C)—surface, Feb.-Mar. 1960

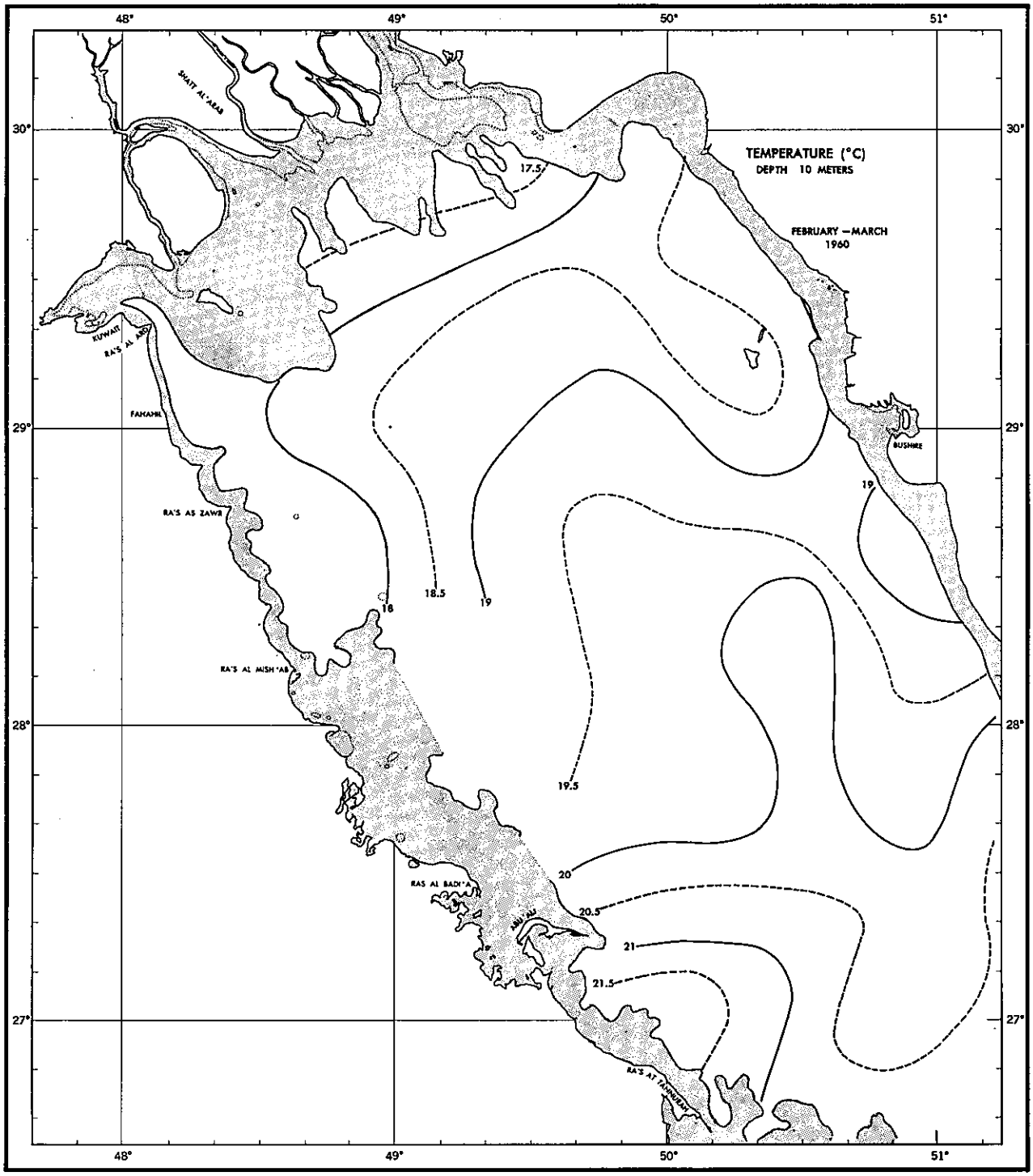

Figure VI-10. Northern Part, Persian Gulf—Temperature (°C)—
10 meters, Feb.-Mar. 1960

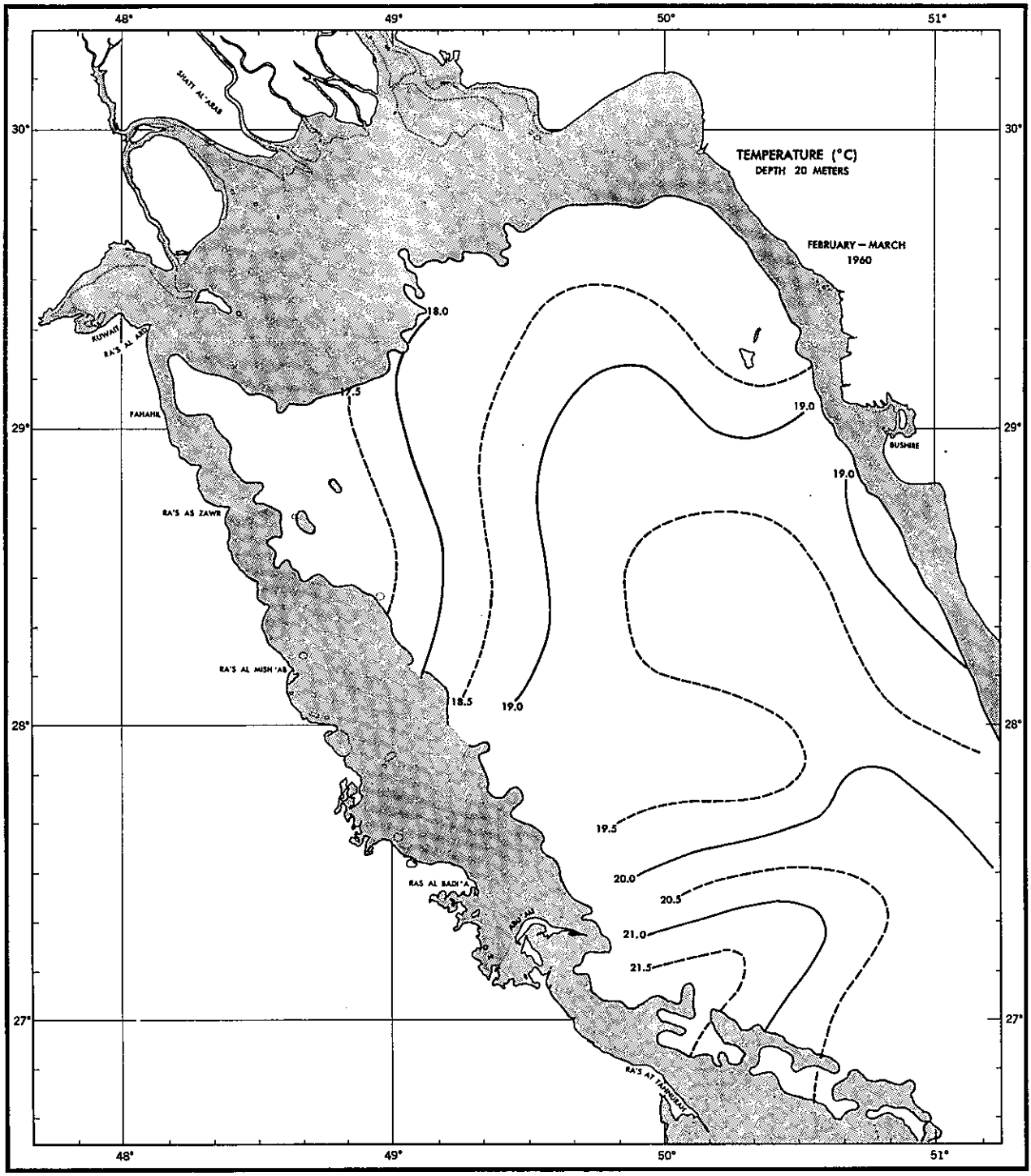

Figure VI-11. Northern Part, Persian Gulf—Temperature (°C)—
20 meters, Feb.-Mar. 1960

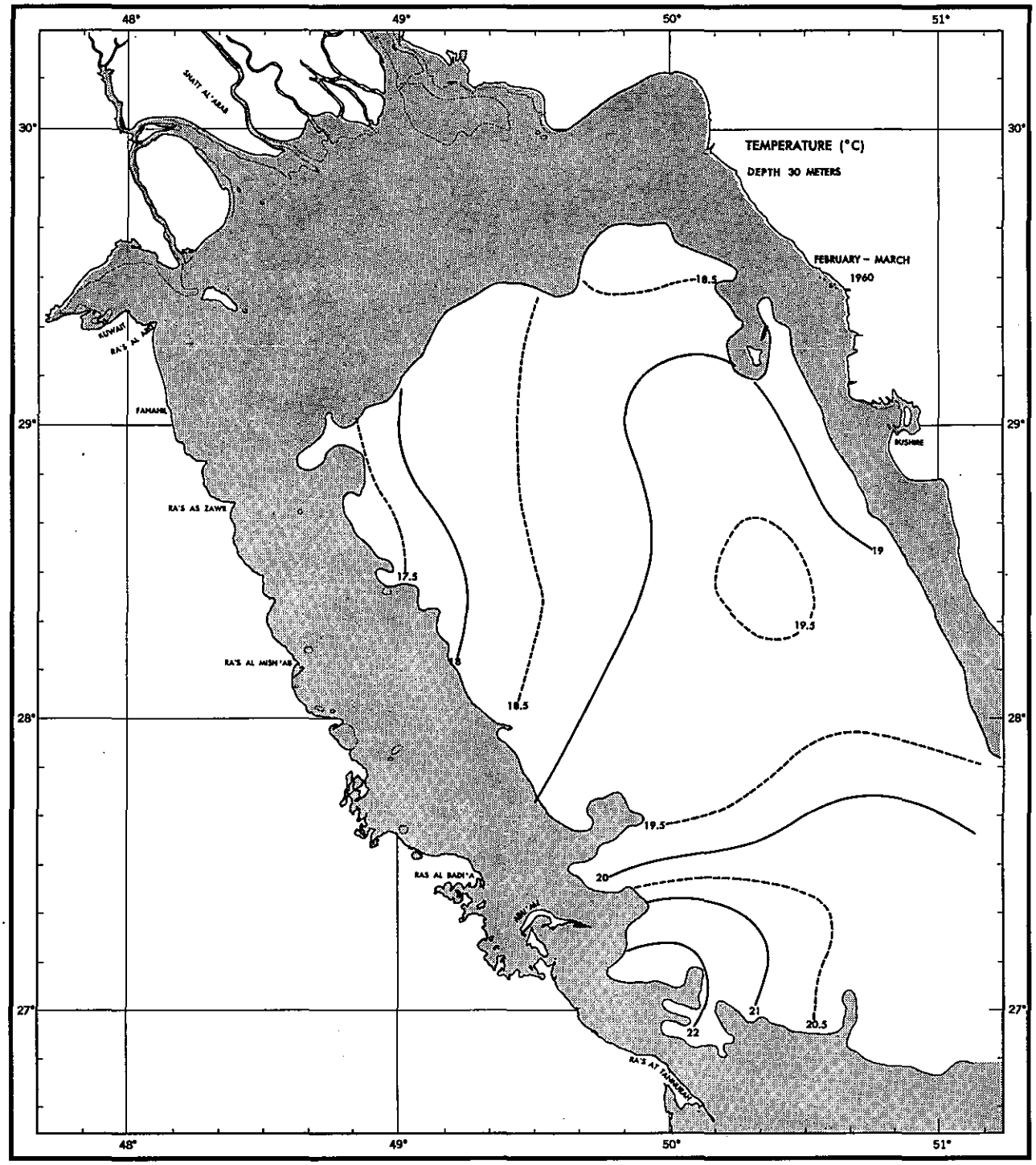

Figure VI-12. Northern Part, Persian Gulf—Temperature (°C)—
30 meters, Feb.-Mar. 1960

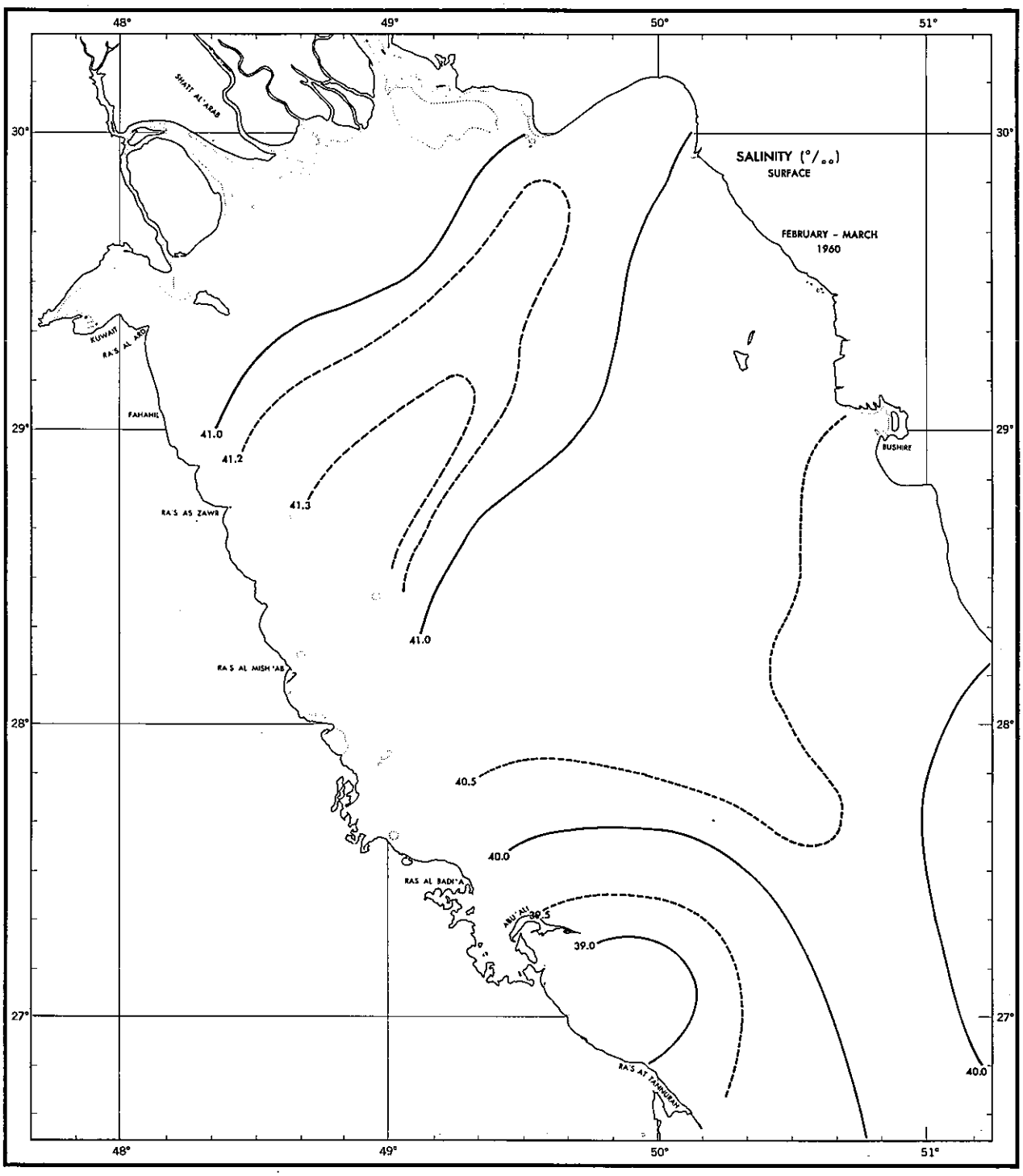

Figure VI-13. Northern Part, Persian Gulf—Salinity (°/₀₀)—surface, Feb.-Mar. 1960

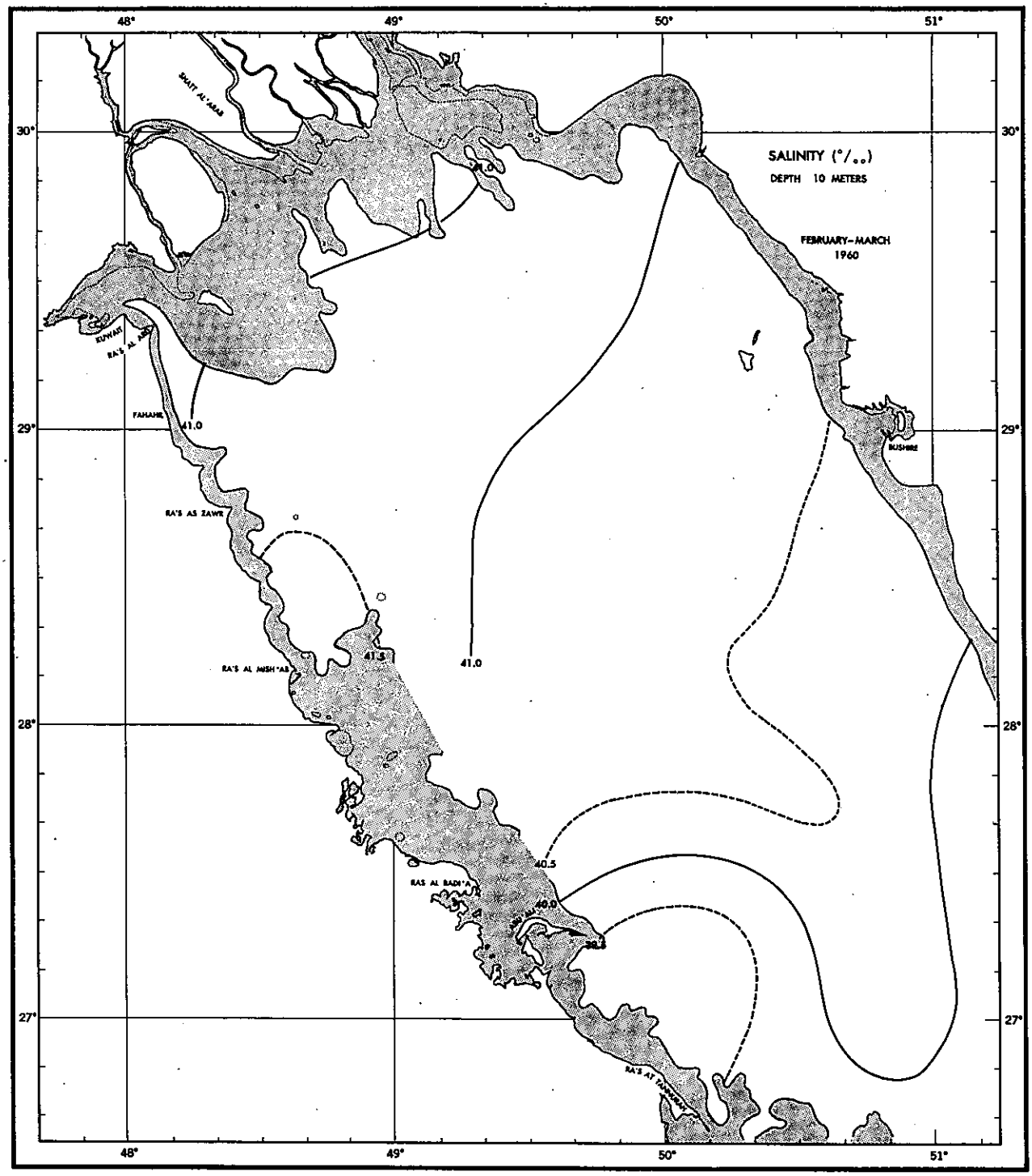

Figure VI-14. Northern Part, Persian Gulf—Salinity (°/₀₀)—
10 meters, Feb.-Mar. 1960

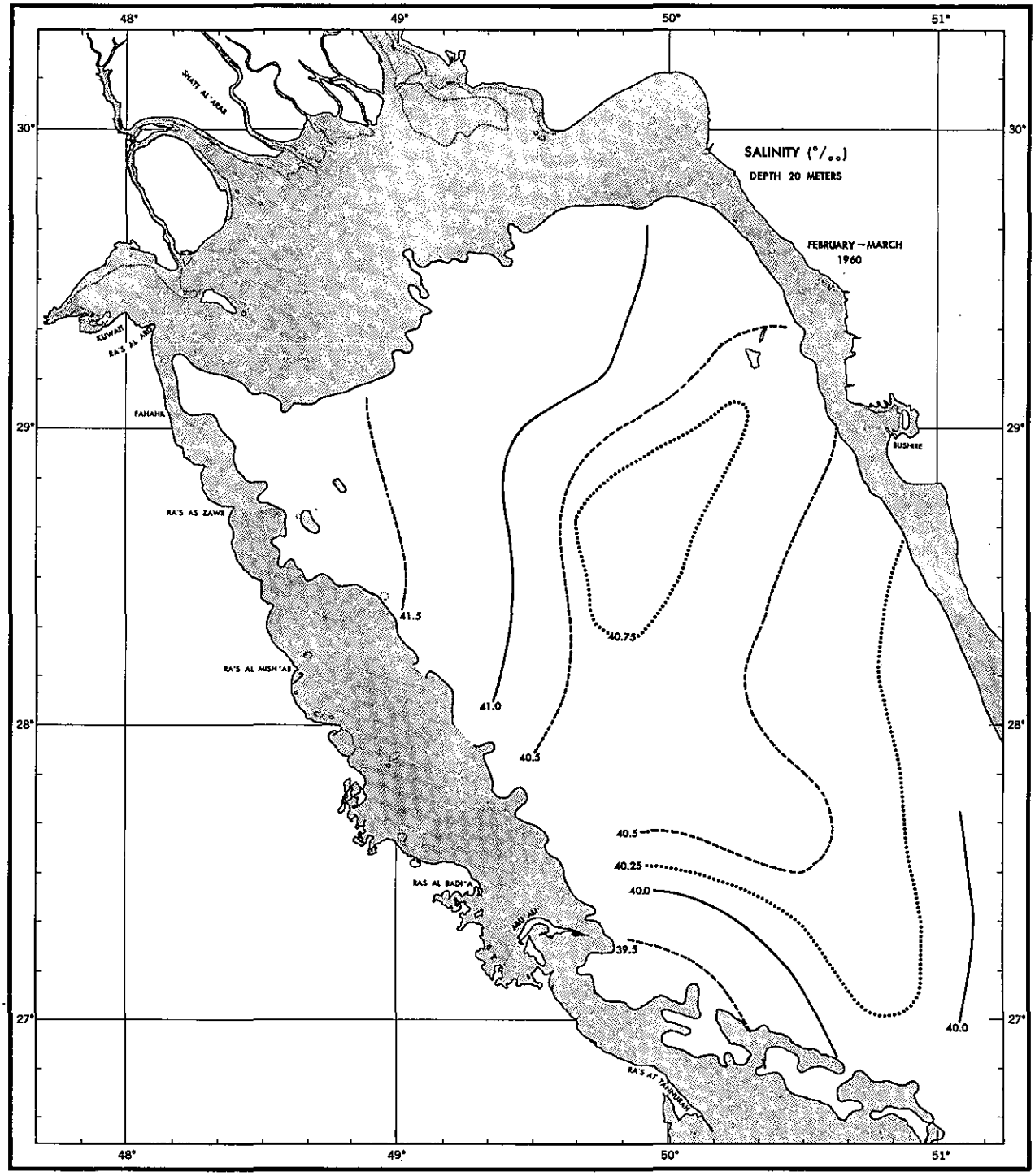

Figure VI-15. Northern Part, Persian Gulf—Salinity (°/₀₀)—
20 meters, Feb.-Mar. 1960

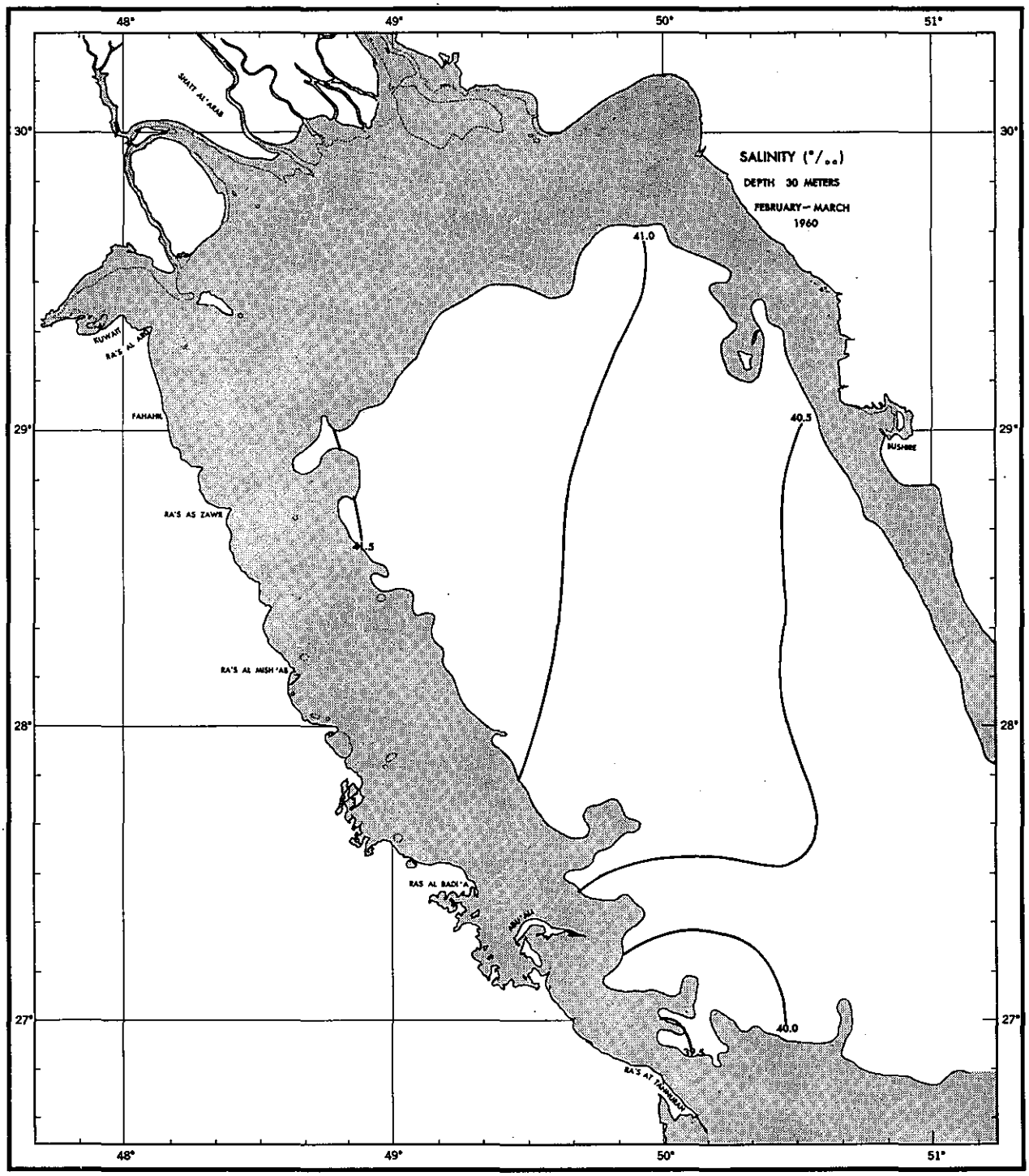

Figure VI-16. Northern Part, Persian Gulf—Salinity (°/₀₀)—
30 meters, Feb.-Mar. 1960

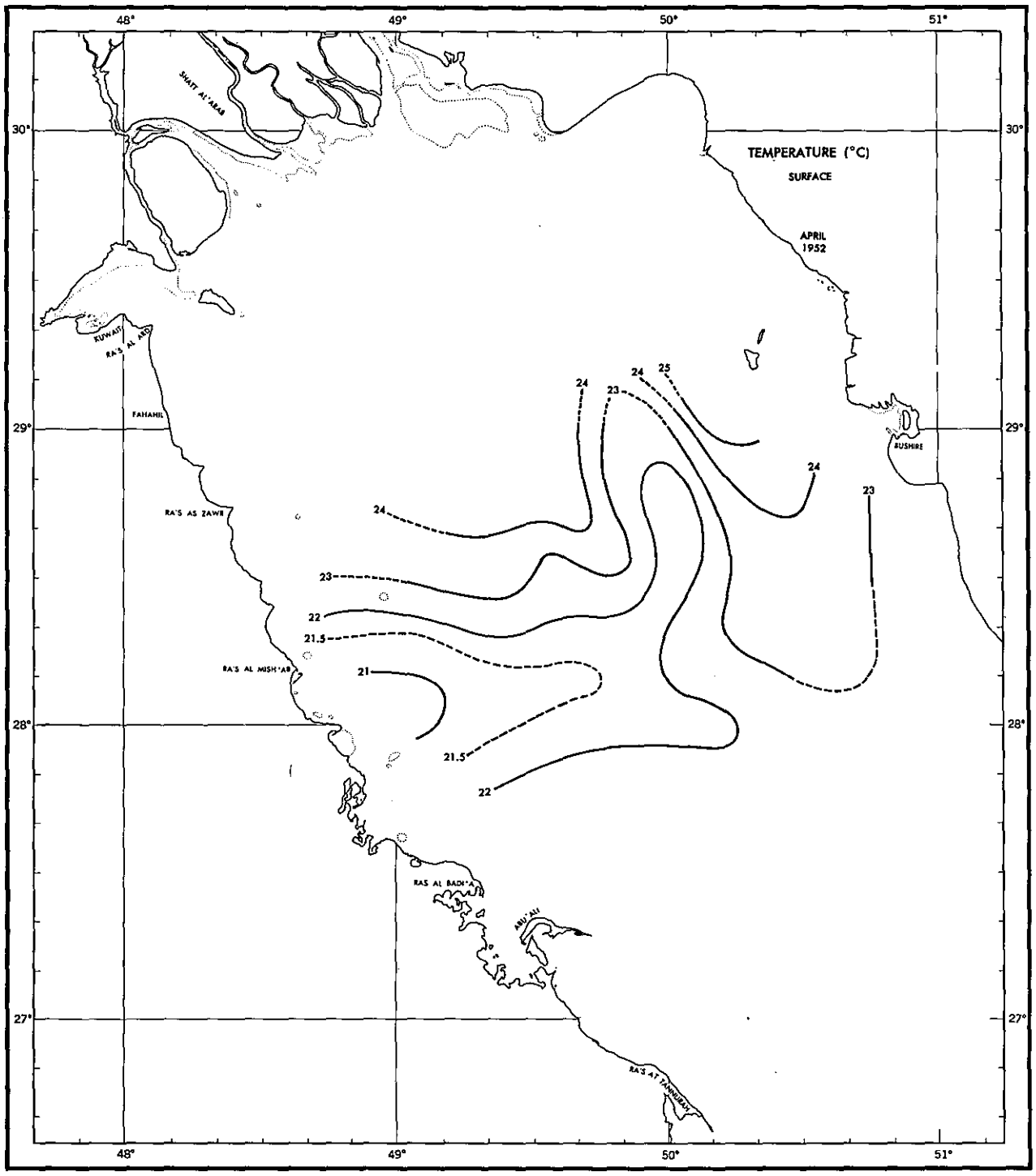

Figure VI-17. Northern Part, Persian Gulf—Temperature (°C)—surface, Apr. 1952

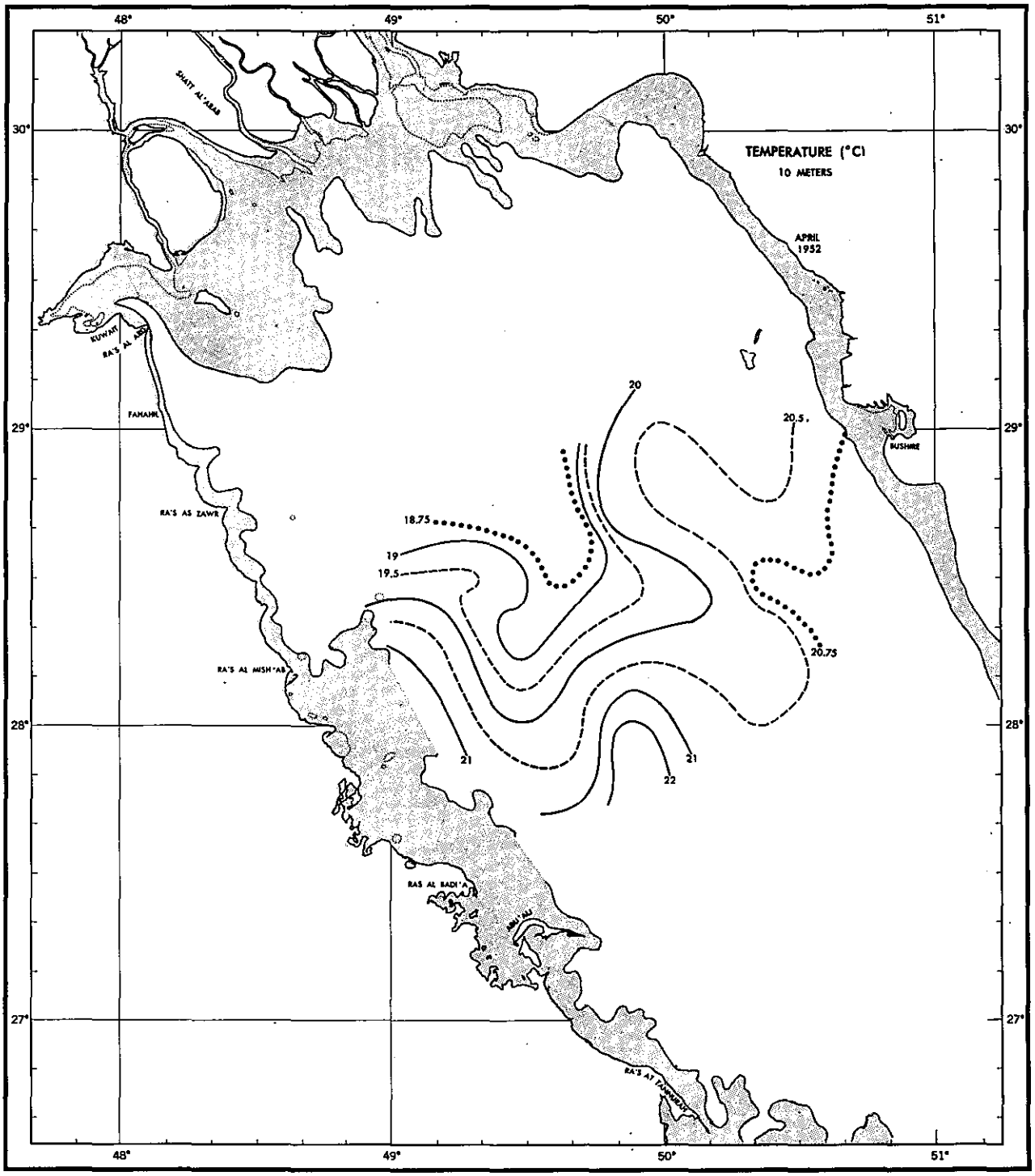

Figure VI-18. Northern Part, Persian Gulf—Temperature (°C)—
10 meters, Apr. 1952

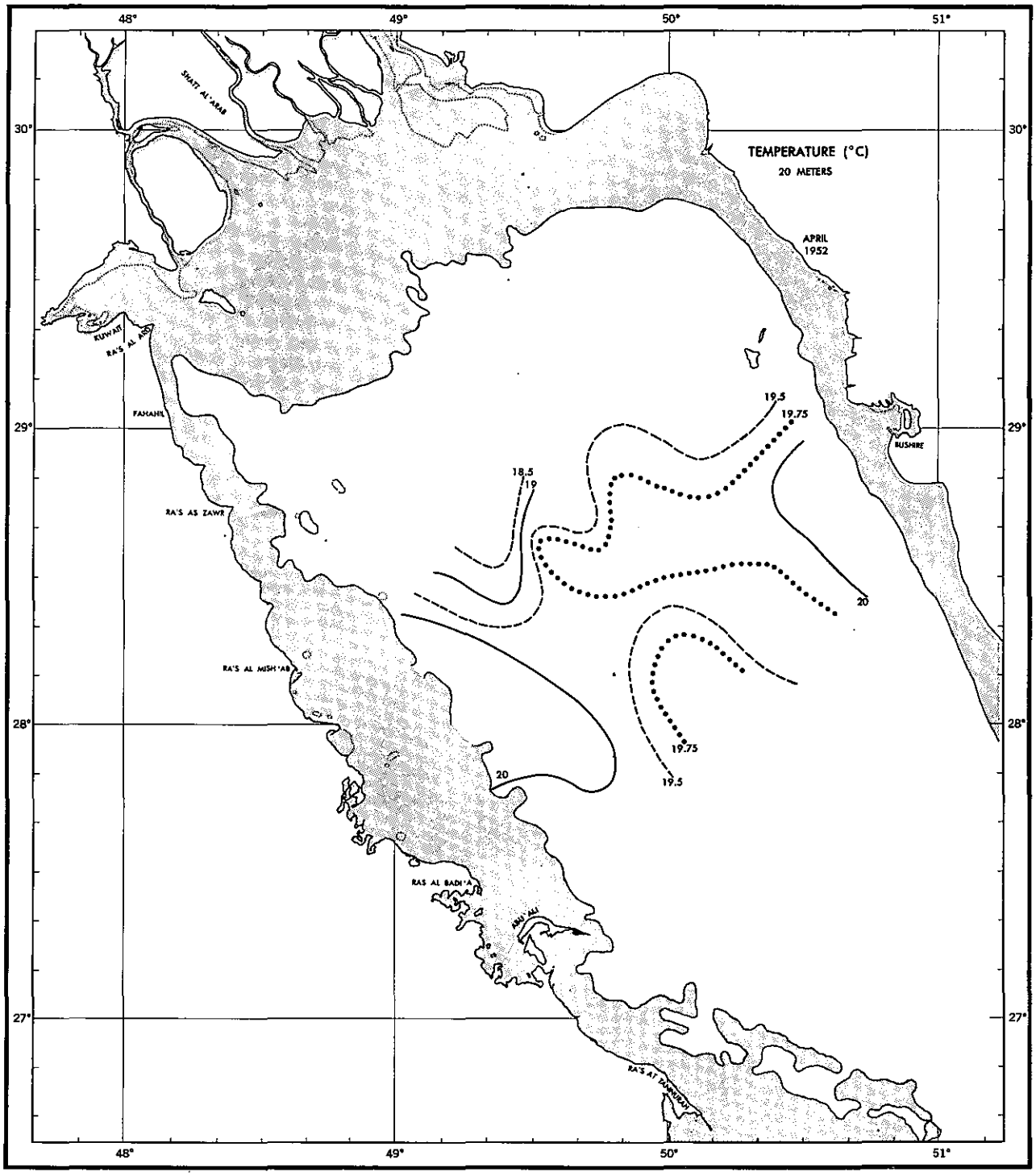

Figure VI-19. Northern Part, Persian Gulf—Temperature (°C)—
20 meters, Apr. 1952

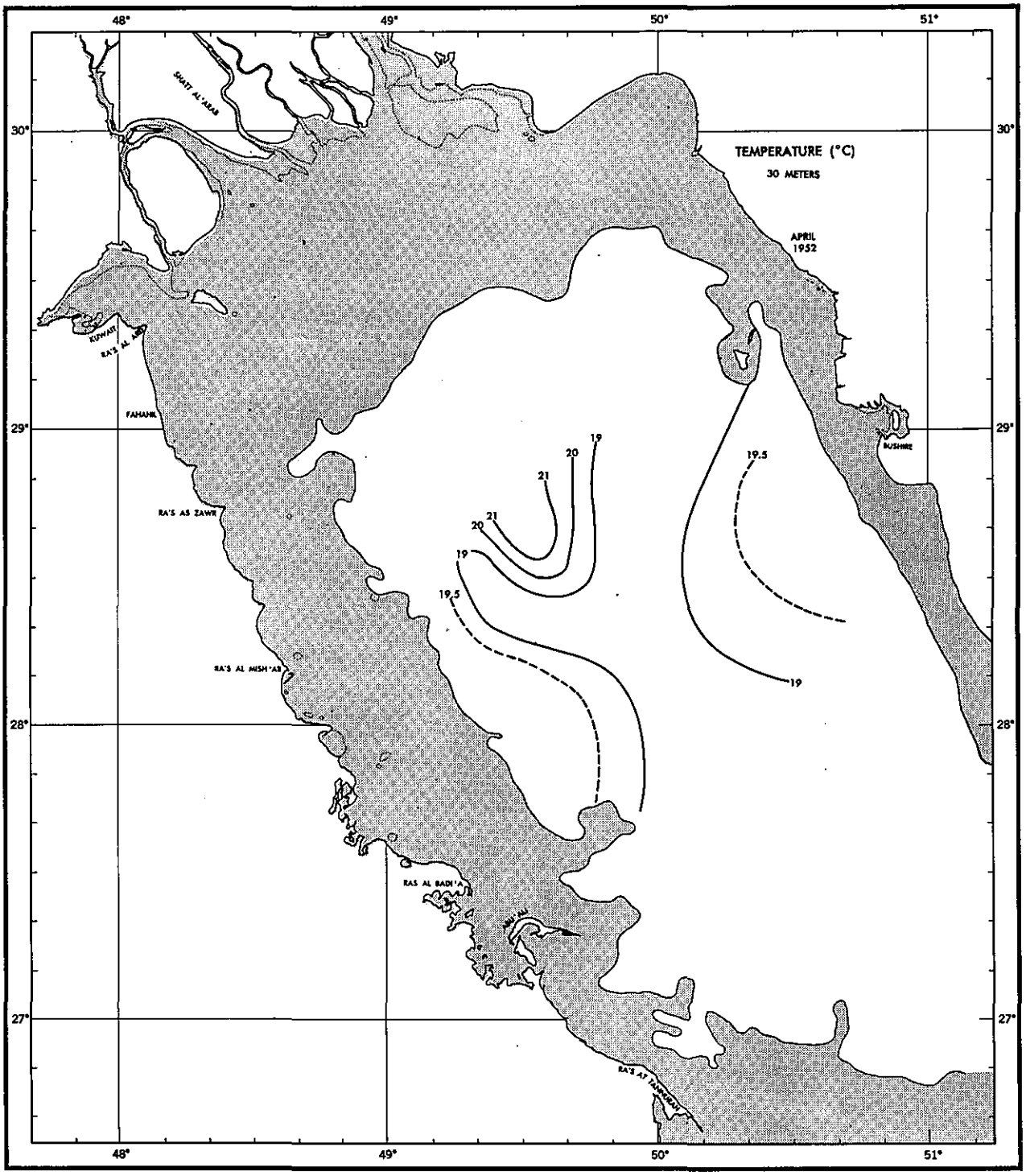

Figure VI-20. Northern Part, Persian Gulf—Temperature (°C)—
30 meters, Apr. 1952

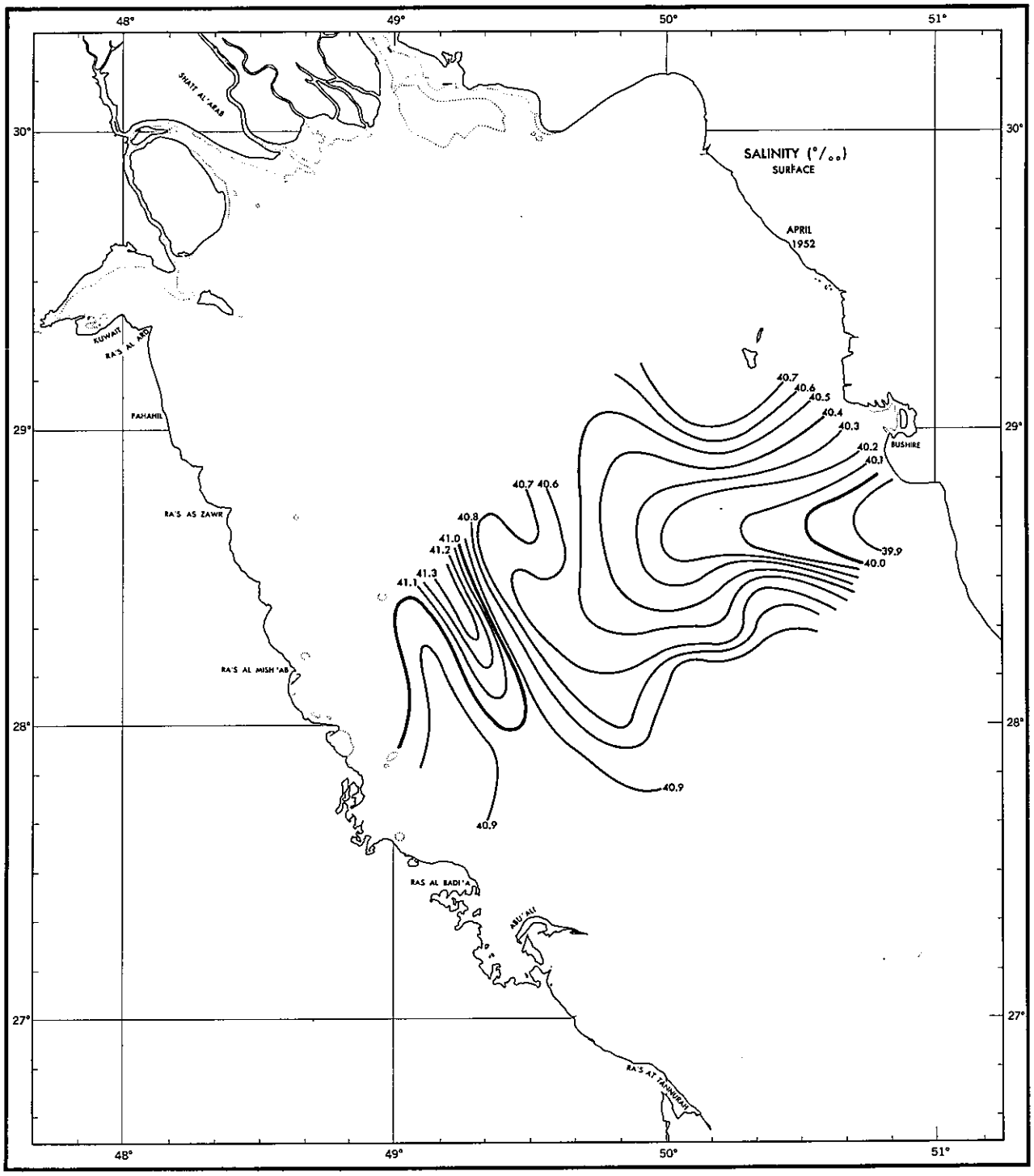

Figure VI-21. Northern Part, Persian Gulf—Salinity (°/₀₀)—surface, Apr. 1952

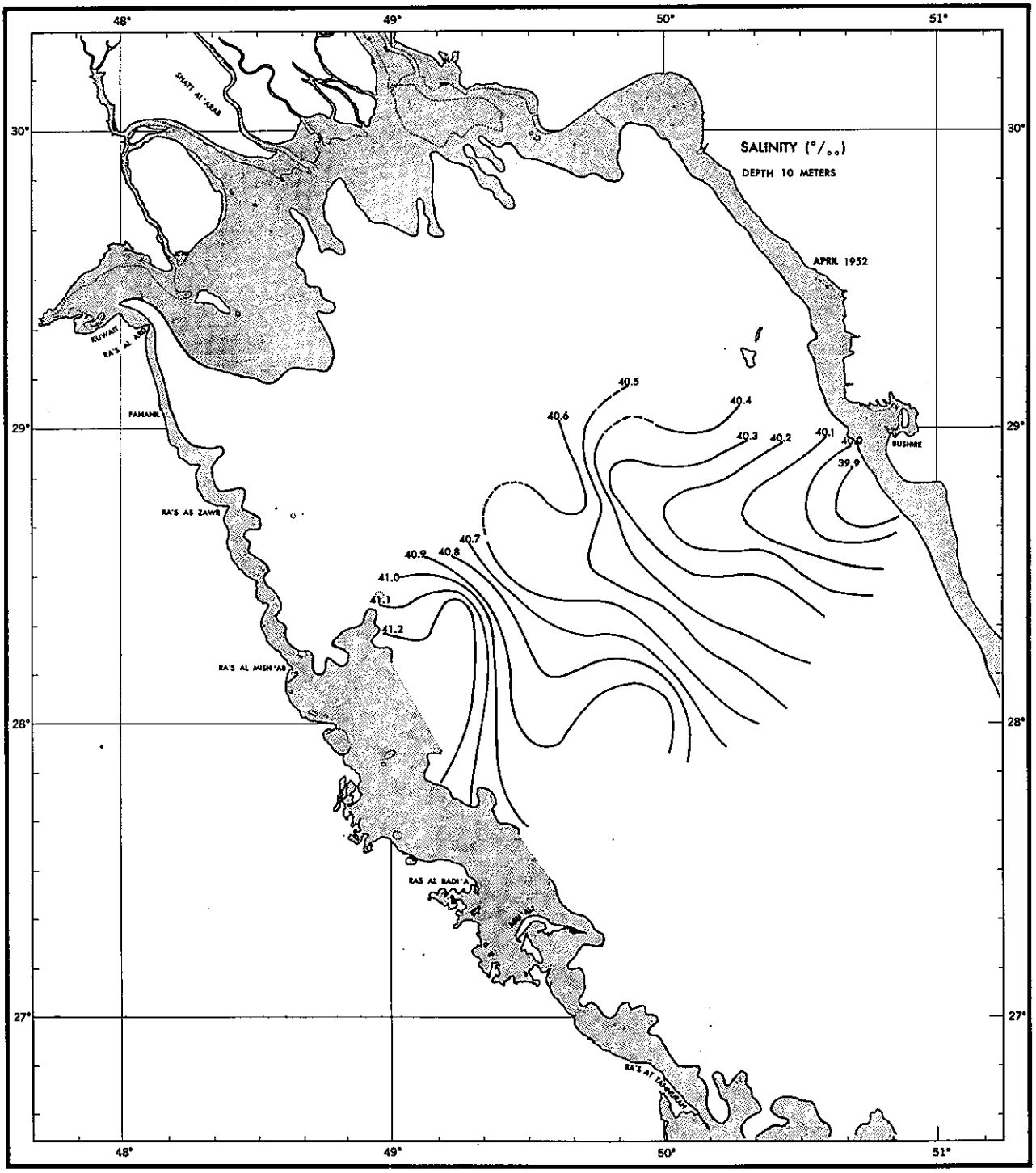

Figure VI-22. Northern Part, Persian Gulf—Salinity (°/₀₀)—
10 meters, Apr. 1952

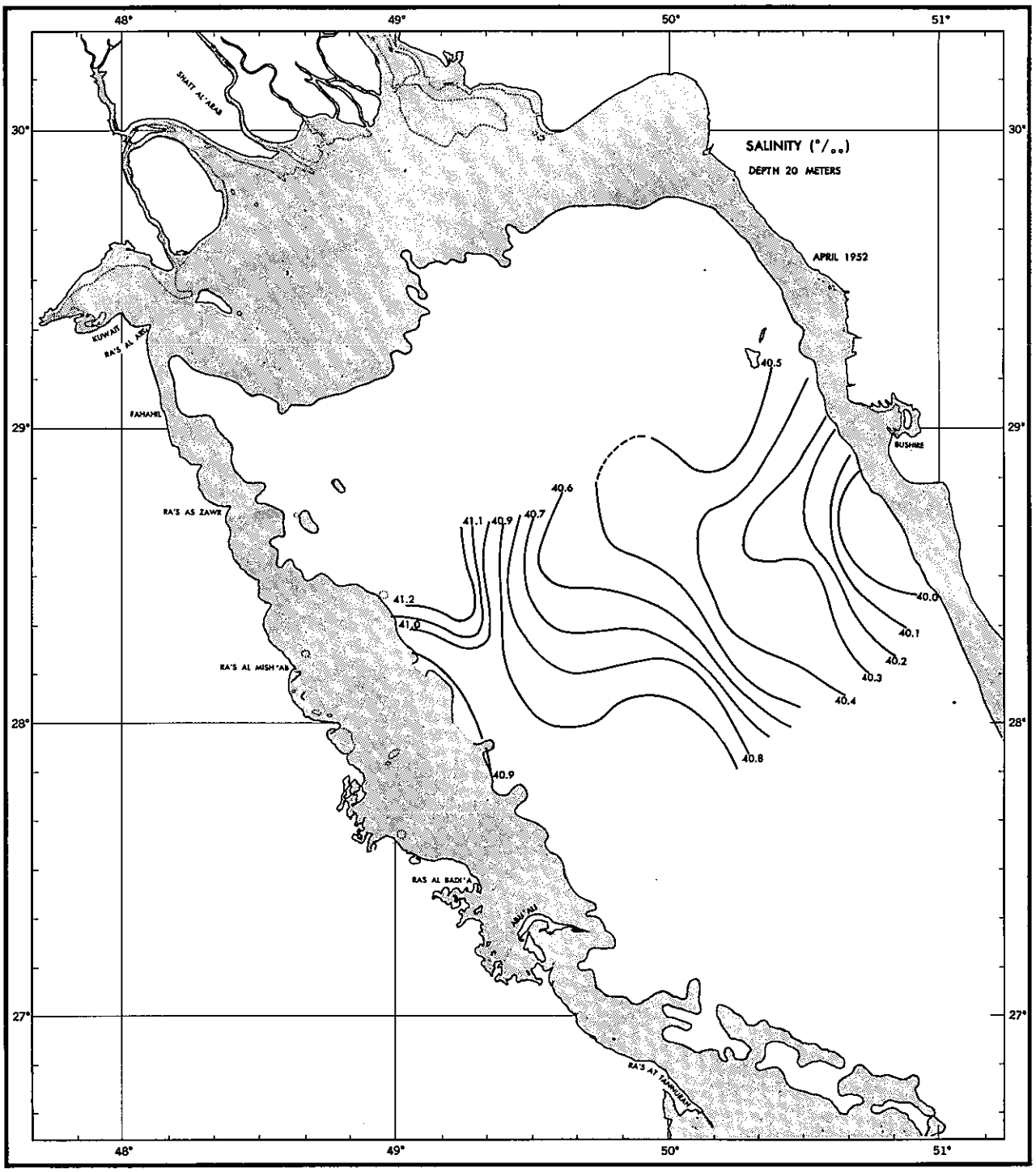

Figure VI-23. Northern Part, Persian Gulf—Salinity (°/₀₀)—
20 meters, Apr. 1952

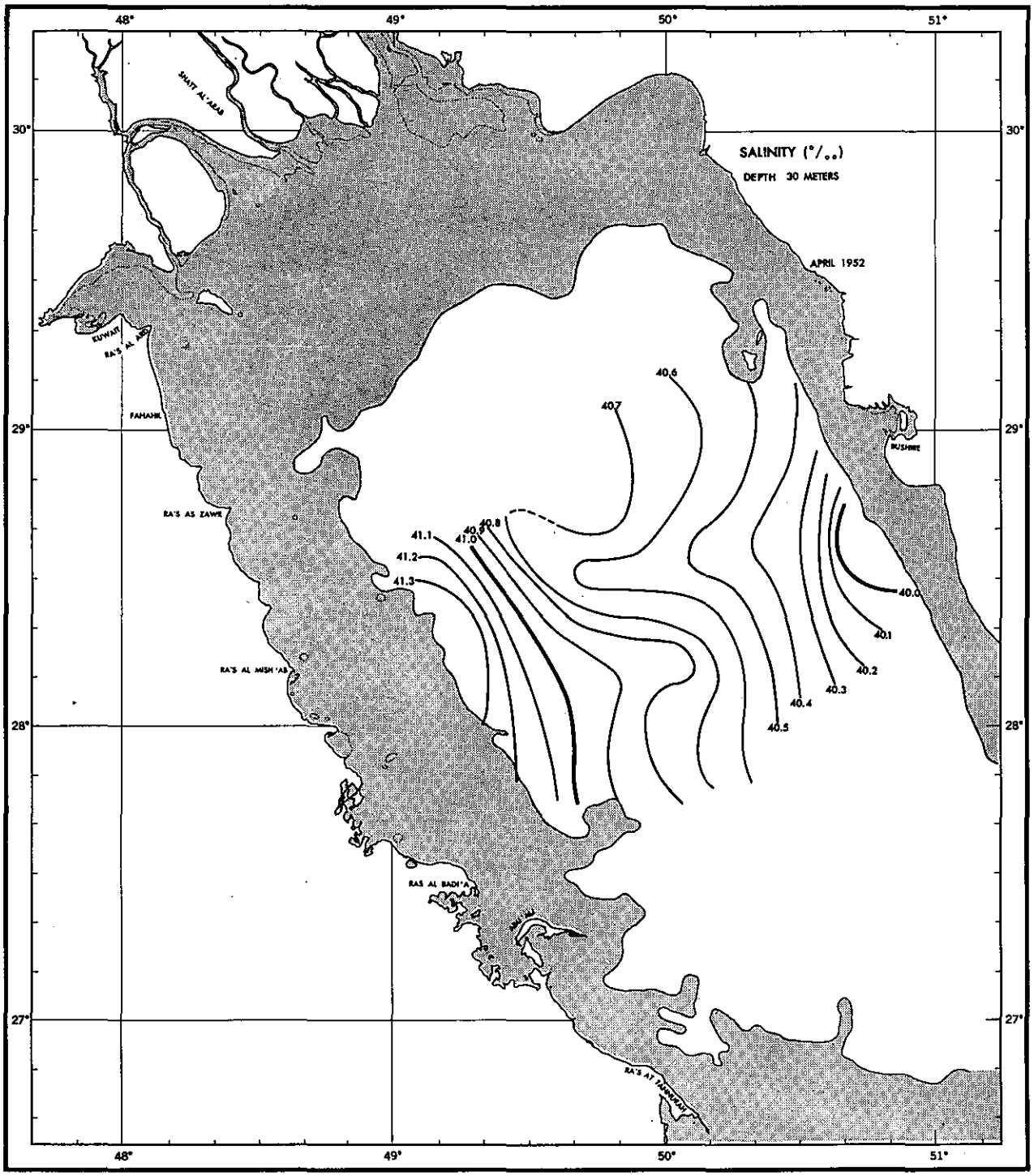

Figure VI-24. Northern Part, Persian Gulf—Salinity (°/₀₀)—
30 meters, Apr. 1952

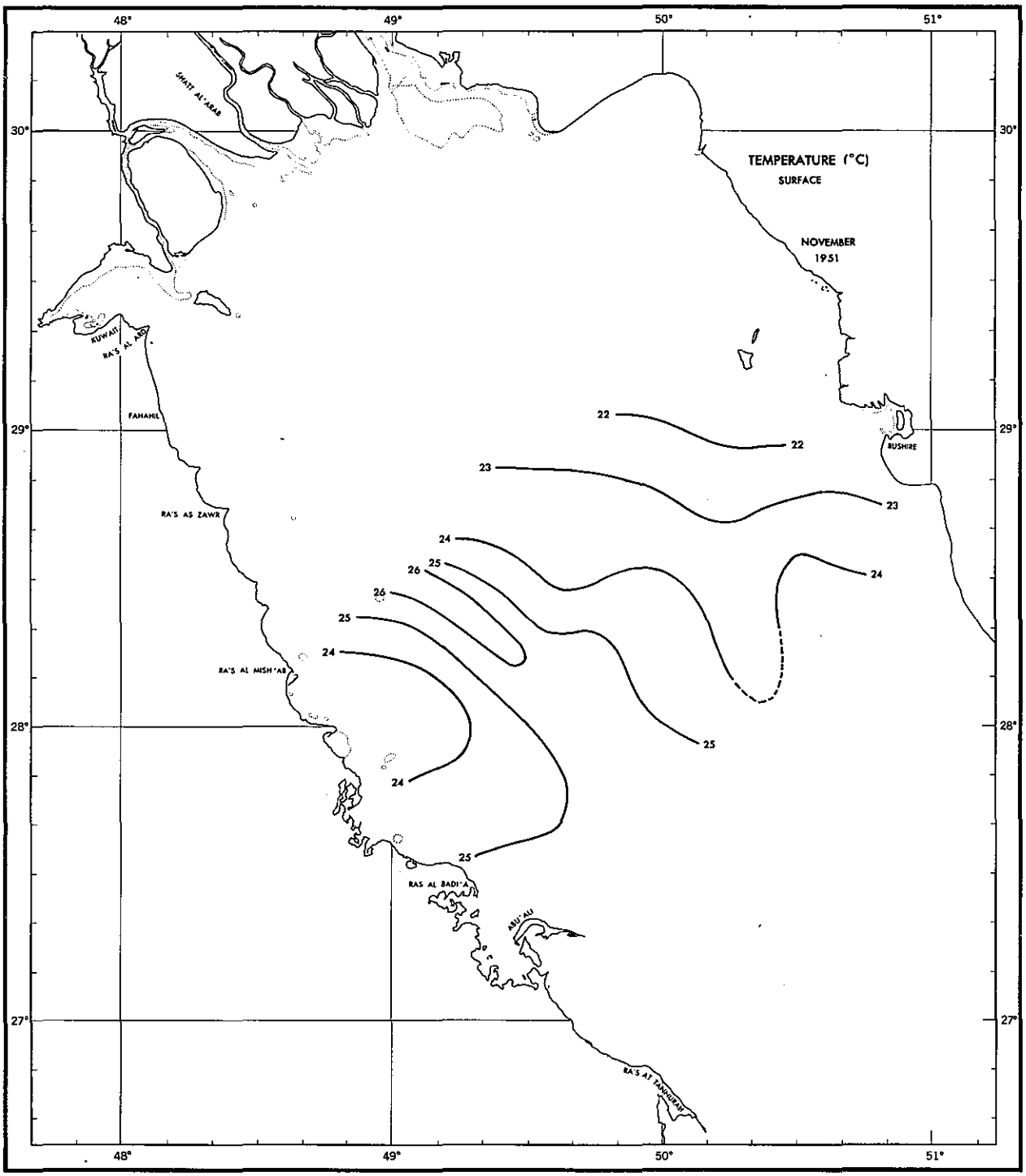

Figure VI-25. Northern Part, Persian Gulf—Temperature (°C)—surface, Nov. 1951

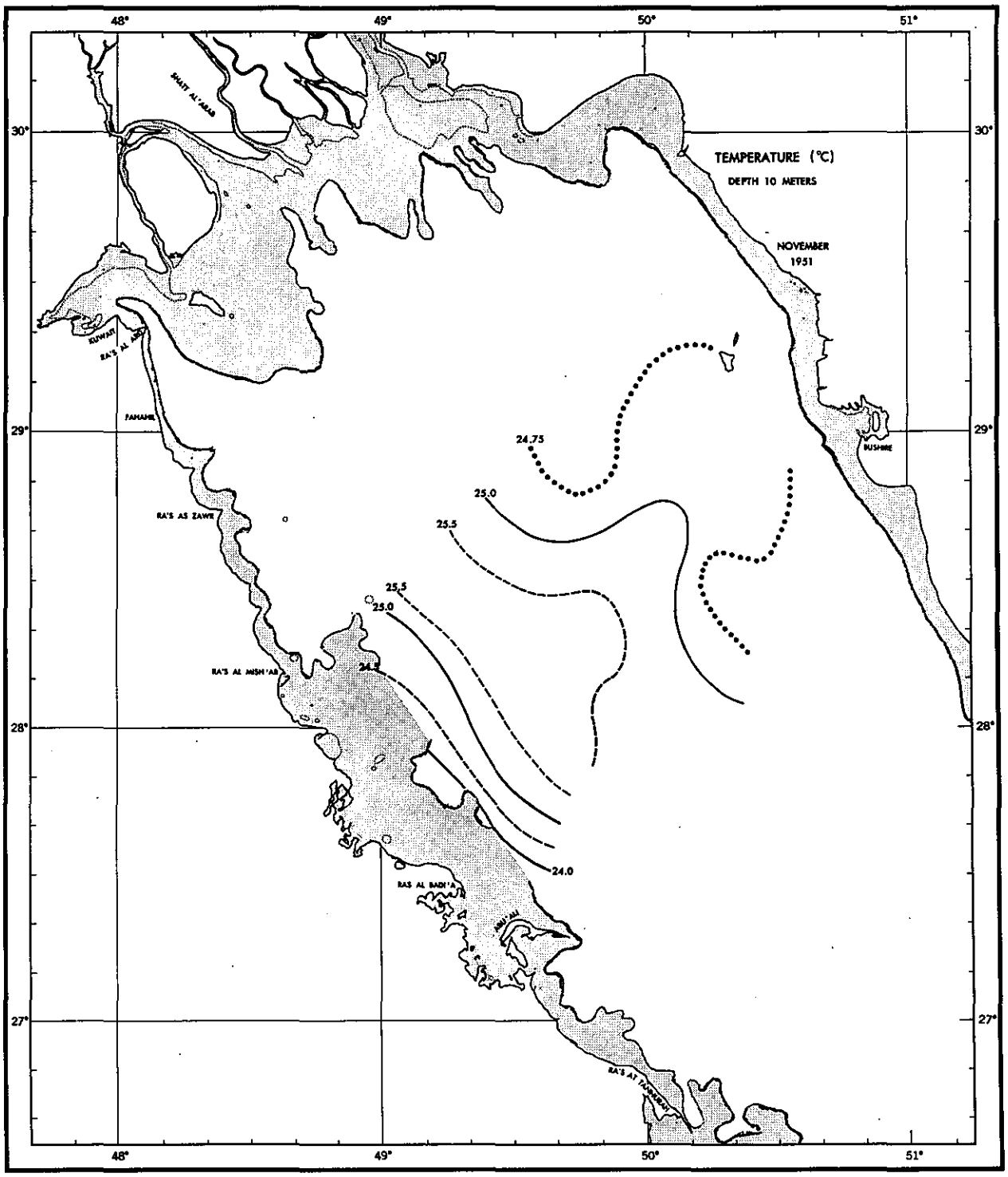

Figure VI-26. Northern Part, Persian Gulf—Temperature (°C)—
10 meters, Nov. 1951

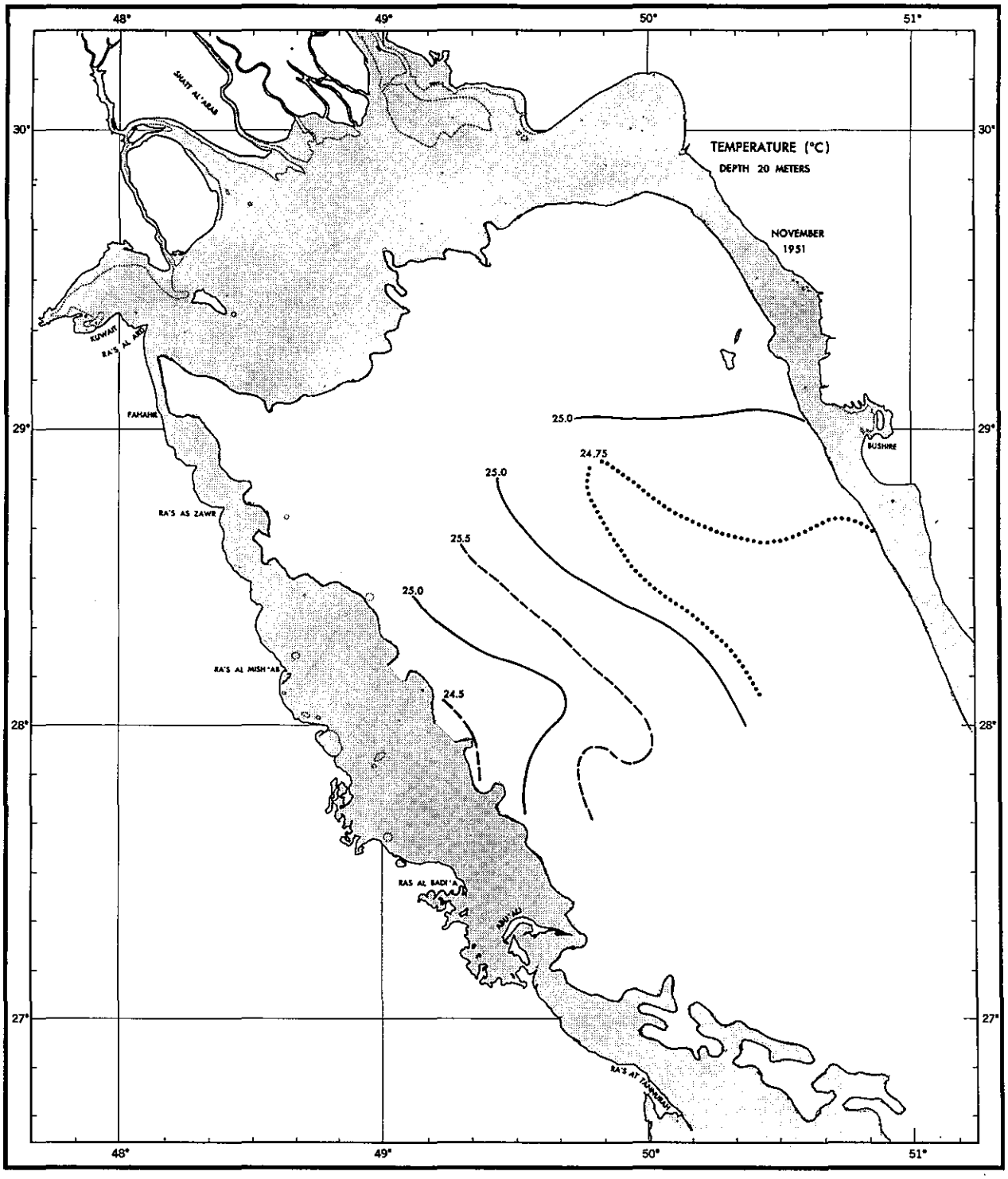

Figure VI-27. Northern Part, Persian Gulf—Temperature (°C)—
20 meters, Nov. 1951

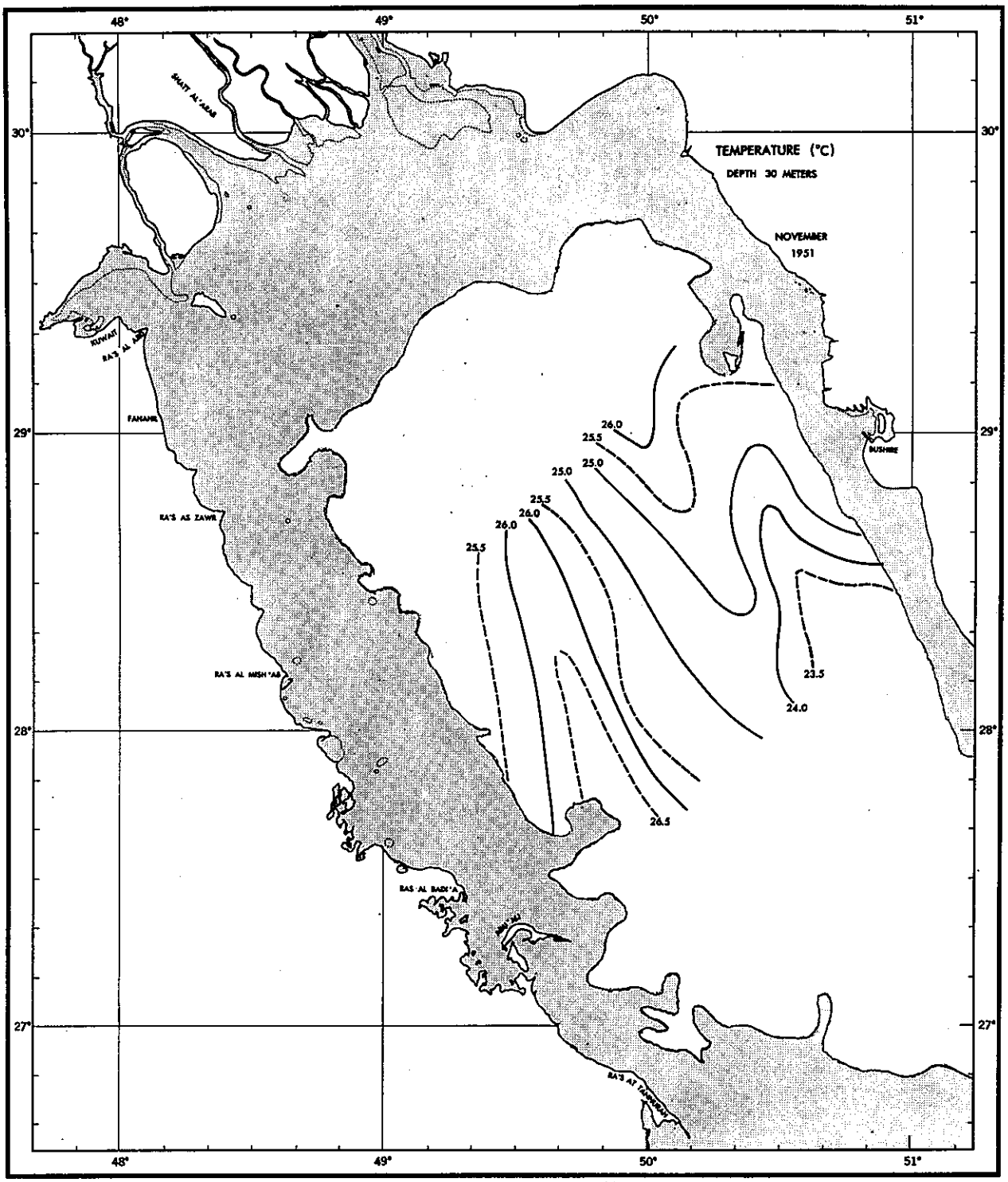

Figure VI-28. Northern Part, Persian Gulf—Temperature (°C)—
30 meters, Nov. 1951

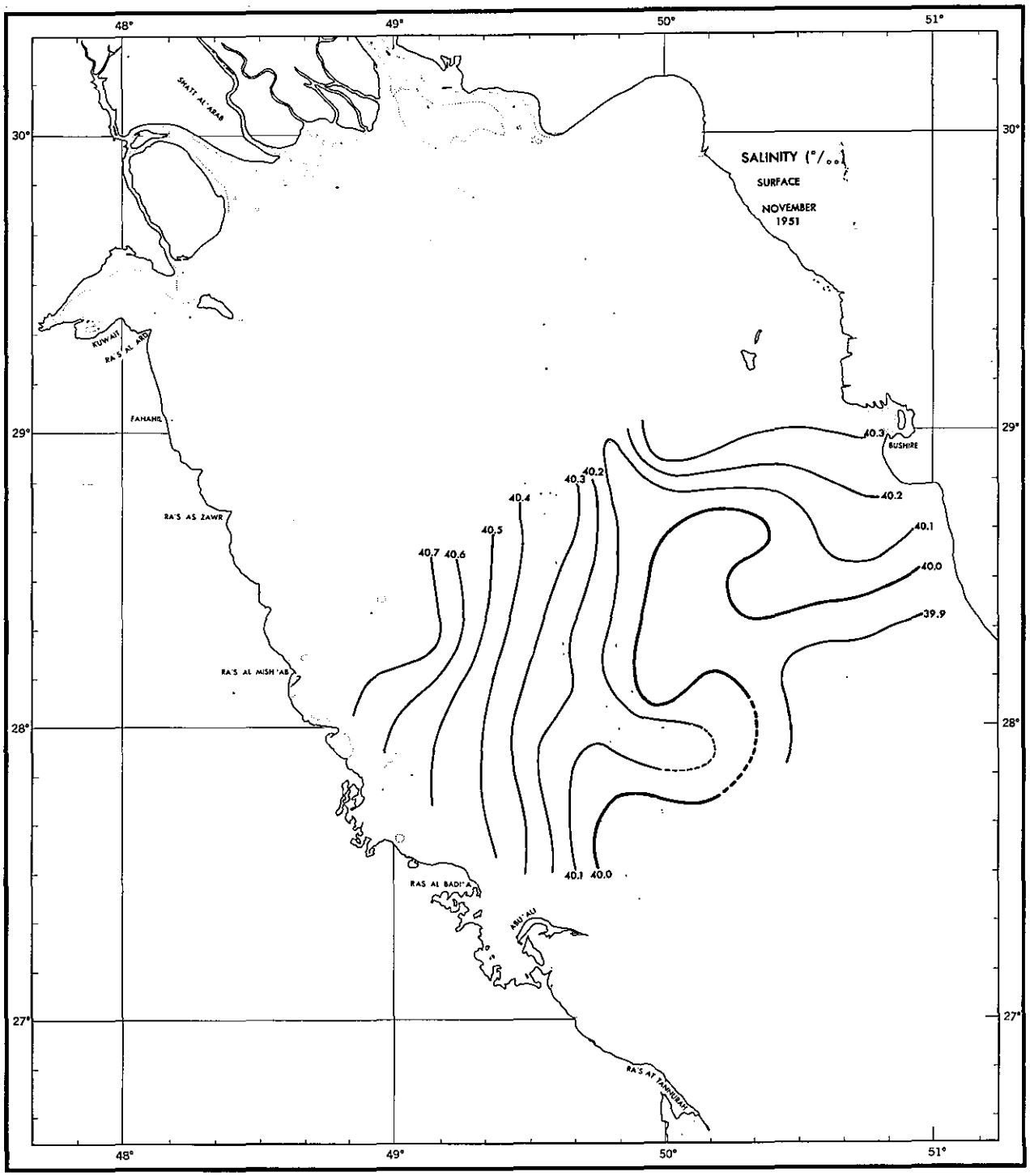

Figure VI-29. Northern Part, Persian Gulf—Salinity (°/₀₀)—surface, Nov. 1951

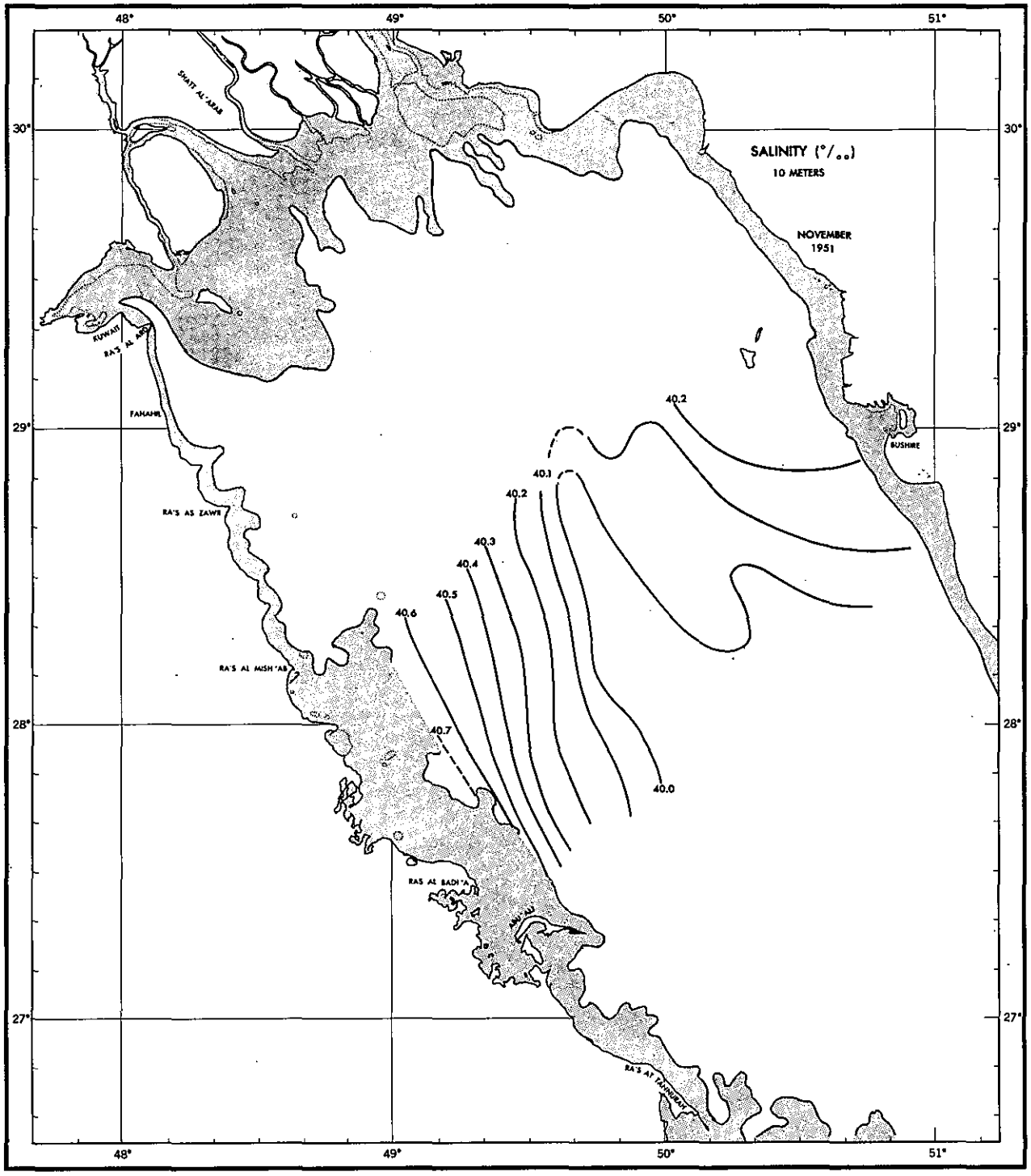

Figure VI-30. Northern Part, Persian Gulf—Salinity (°/₀₀)—
10 meters, Nov. 1951

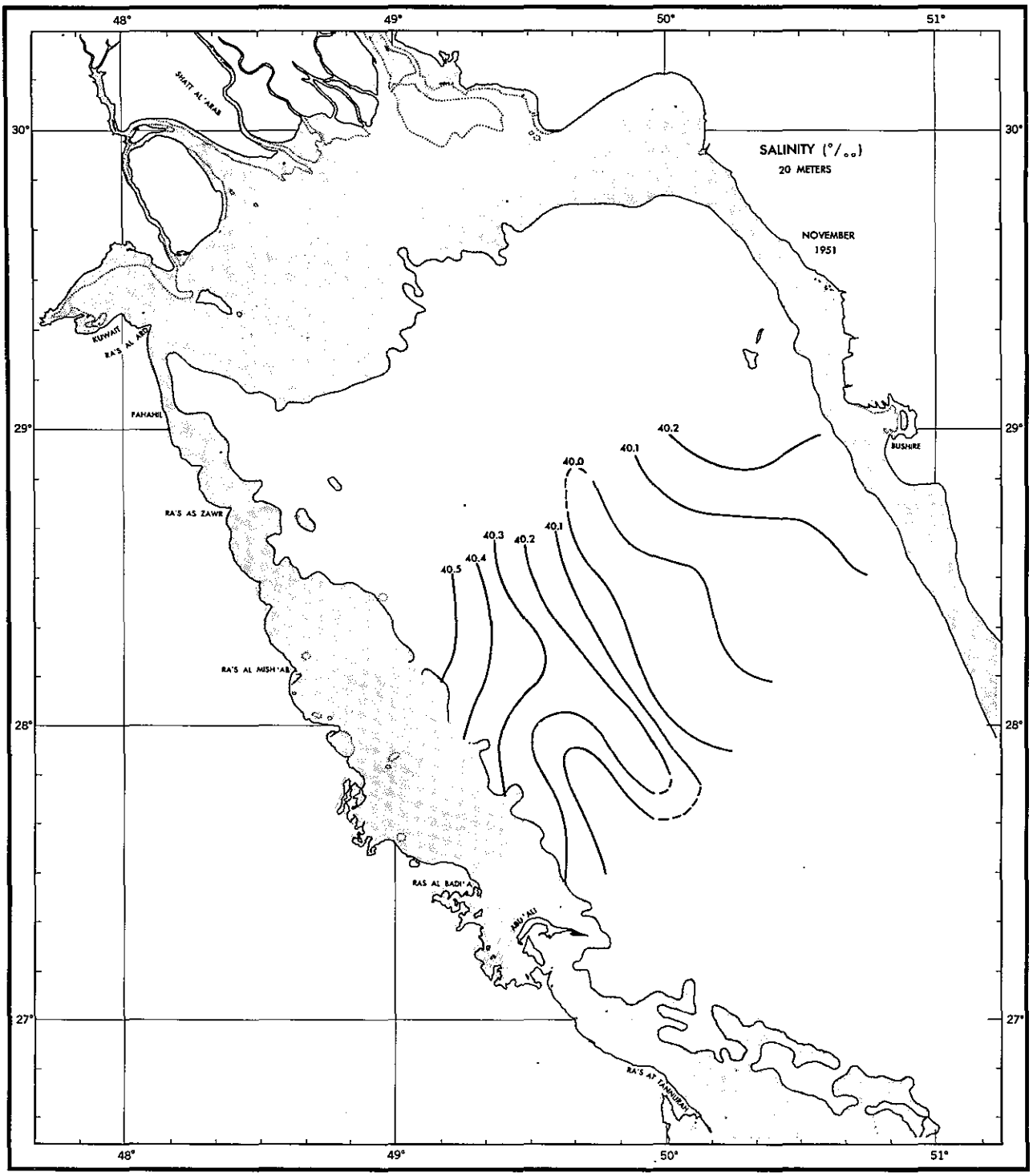

Figure VI-31. Northern Part, Persian Gulf—Salinity (°/₀₀)—
20 meters, Nov. 1951

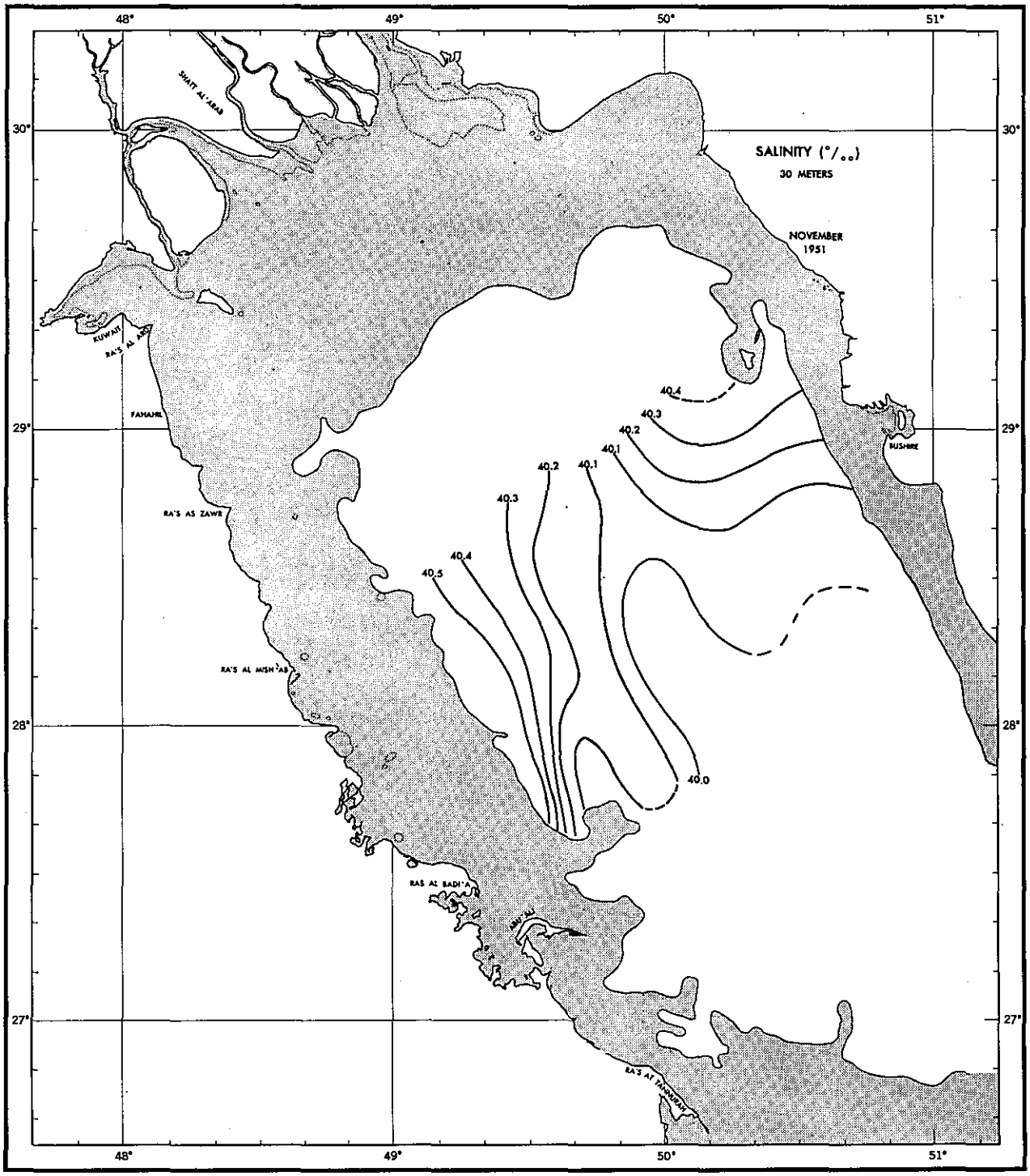

Figure VI-32. Northern Part, Persian Gulf—Salinity (°/₀₀)—
30 meters, Nov. 1951

APPENDIX A

HISTORICAL DATA (PRE-1950)

INDEX OF HISTORICAL DATA (PRE-1950)

Table 1: Surface Water Observations (Temperature and Salinity) Persian Gulf (ASSYRIA and CANADIA), 1907, Schott.

Table 2: Surface Water Temperature (°C) Observations, 1908, Schott.

Table 3: Surface Water Observations (Temperature and Salinity) of the Persian Gulf (SICILIA and EKBATANA), 1910-11, Schulz.

Table 4: Observations of the Persian Gulf (M/S RASHGOO), 1937-38, Blegvad.

NODC Machine Listing:

31S04 — U. S. Naval Oceanographic Office, Washington, D. C. Manuscript Data. For Stations in the Persian Gulf. 15-26 Aug. 1948 22 Stations — CARPELLOTTI, MASSEY

Table 5: Oceanographic Stations—Kuwait Harbor (USS JOHN BLISH), 1949, Dubach and Wehe.

SURFACE WATER OBSERVATIONS OF THE PERSIAN GULF

DATE		LATITUDE (N)	LONGITUDE (E)	WATER TEMP. °C	SALINITY °/₀₀
1907			SHIP ASSYRIA		
7	FEBRUARY	24° 30′	58° 00′	22.5	36.78
8		25° 34′	57° 02′	21.0	36.26
–		25° 58′	56° 51′	23.6	36.67
9		26° 20′	55° 22′	21.2	38.12
10		26° 26′	53° 07′	21.3	40.10
11		26° 28′	51° 28′	19.2	40.01
12		26° 55′	51° 03′	19.3	40.17
13		28° 24′	50° 42′	17.0	40.43
13		28° 38′	50° 45′	17.2	40.35
13		29° 08′	50° 08′	17.2	40.53
14		29° 35′	48° 55′	15.0	37.57
5	JUNE	25° 47′	56° 53′	30.0	37.00
5		26° 45′	56° 29′	29.4	37.01
5		26° 52′	56° 16′	28.9	37.05
6		26° 18′	55° 18′	28.5	37.10
7		26° 14′	53° 40′	30.0	37.84
8		26° 32′	51° 26′	28.7	38.74
9		27° 04′	51° 05′	28.5	39.13
11		29° 45′	49° 00′	26.5	39.14
1907			SHIP CANADIA		
15	MAY	27° 05′	56° 20′	29.5	37.50
19		26° 25′	54° 04′	28.8	37.34
20		27° 15′	52° 01′	28.0	38.51
20		28° 55′	50° 45′	27.8	40.41
21		29° 36′	49° 21′	24.9	40.26
6	JUNE	29° 48′	48° 45′	28.2	26.09
9		29° 23′	49° 45′	28.0	39.79
11		27° 05′	52° 12′	28.9	37.75
11		26° 20′	54° 09′	30.4	37.46
11		26° 26′	56° 13′	30.0	37.10

Table 1: Surface Water Observations (Temperature and Salinity) Persian Gulf (ASSYRIA and CANADIA), 1907, Schott.

SURFACE WATER TEMPERATURE

LOCATION / MONTH	PERSIAN GULF						
	EAST LONGITUDE						
	48°-49°	49°-50°	50°-51°	51°-52°	52°-53°	53°-54°	54°-55°
DECEMBER	18.4	20.3	21.6	22.6	23.3	23.5	24.2
JANUARY	16.0	17.3	19.7	20.8	21.1	21.4	22.1
FEBRUARY	15.2	16.4	18.1	19.4	19.8	20.9	21.8
MARCH	17.0	17.7	19.1	20.0	20.8	21.8	22.0
APRIL	19.8	20.7	22.0	22.6	23.2	23.8	24.1
MAY	24.5	25.0	25.5	26.0	26.3	26.9	27.0
JUNE	27.4	27.8	28.4	28.2	28.4	28.6	28.9
JULY	29.6	29.8	30.4	30.4	31.2	31.0	31.0
AUGUST	31.9	31.5	31.2	31.8	32.0	32.4	32.3
SEPTEMBER	29.8	30.6	31.1	31.7	31.8	31.9	31.8
OCTOBER	27.5	28.7	29.4	29.6	29.9	30.3	30.5
NOVEMBER	22.8	24.1	25.6	26.1	27.3	27.6	27.9
NO. OF OBS.	86	243	595	326	260	241	242
YEARLY AVERAGE	23.3	24.2	25.2	25.8	26.2	26.7	27.0
ABSOLUTE MAXIMUM	33.1	33.1	34.5	34.2	34.5	36.0	34.9
(DATE)	11 AUG.	21 AUG.	5 AUG.	17 AUG.	17 AUG.	17 AUG.	21 AUG.
ABSOLUTE MINIMUM	13.8	12.3	15.8	16.3	18.0	17.9	17.9
(DATE)	20 FEB.	22 JAN.	20 FEB.	20 FEB.	10 MAR.	12 FEB.	17 JAN.

Table 2: Surface Water Temperature (°C) Observations, 1908, Schott.

SURFACE WATER OBSERVATIONS OF THE PERSIAN GULF

DATE	LATITUDE (N)	LONGITUDE (E)	WATER TEMP. °C	SALINITY °/₀₀
1910		SHIP SICILIA		
22 SEPTEMBER	26° 24′	56° 07′	31.5	37.43
22	26° 13′	55° 10′	31.9	37.83
23	26° 17′	54° 13′	31.8	38.12
23	26° 30′	53° 30′	31.9	39.54
23	26° 58′	52° 35′	32.5	38.68
23	27° 03′	51° 54′	31.0	39.81
24	27° 48′	51° 04′	31.0	40.06
24	OFF BŪSHEHR (BUSHIRE)		28.0	40.99
25	29° 20′	49° 54′	29.0	39.96
25	29° 42′	49° 07′	29.5	40.50
8 OCTOBER	27° 40′	50° 45′	29.5	39.67
10	26° 16′	52° 24′	29.6	39.32
13	26° 22′	56° 17′	31.0	38.22
1911		SHIP EKBATANA		
4 MAY	28° 08′	50° 52′	20.8	39.51
4	28° 15′	50° 52′	20.8	39.88
13	29° 15′	50° 03′	25.5	39.88
18	24° 56′	58° 04′	29.8	36.55
31 AUGUST	25° 26′	57° 19′	27.4	37.16
1 SEPTEMBER	27° 08′	56° 18′	32.8	38.04
2	26° 18′	55° 13′	30.5	37.77
3	26° 34′	52° 23′	32.0	39.11
5	26° 29′	50° 52′	33.0	39.58
6	28° 20′	50° 52′	31.5	39.14
8	29° 35′	49° 18′	31.0	39.58
17	27° 20′	52° 01′	30.4	39.27
18	26° 23′	54° 00′	30.0	39.23
18	26° 27′	56° 21′	30.0	37.77
19	24° 54′	57° 41′	28.8	37.07

Table 3: Surface Water Observations (Temperature and Salinity) of the Persian Gulf (SICILIA and EKBATANA), 1910-11, Schulz.

OBSERVATIONS OF THE PERSIAN GULF

SHIP: M/S RASHGOO

DATE	STATION NUMBER	DEPTH (METERS)	WATER TEMP. °C	SALINITY °/₀₀
4 MARCH 1937	4	SFC (0)	18.6	40.8
5	6	SFC (0)	17.5	41.0
11	9	SFC (0)	18.1	40.6
12	12	SFC (0)	19.1	40.6
13	15	SFC (0)	17.9	40.8
14	17	SFC (0)	18.9	41.0
26	27	SFC (0)	22.7	40.2
		20	19.4	41.0
		41	18.5	41.1
27	28	SFC (0)	21.5	40.0
		10	20.8	40.1
		20	19.8	40.4
		30	18.8	40.6
		50	18.2	40.8
		71	18.2	40.9
27	29	SFC (0)	21.3	40.3
		22	20.5	40.9
30	31	SFC (0)	22.1	40.4
		10	21.4	40.2
		30	20.5	40.4
		32	19.7	40.5
31	34	SFC (0)	22.2	39.9
5 APRIL	36	SFC (0)	22.8	39.3
12	47	SFC (0)	23.7	37.3
17	51	SFC (0)	23.0	37.3
22	58	SFC (0)	24.7	37.2
9 FEBRUARY 1938	75	SFC (0)	23.0	40.0
14	78	SFC (0)	18.6	41.2
16	79	SFC (0)	14.9	41.2
20 MARCH	BAHREIN	SFC (0)	18.8	42.6
9 APRIL	N. E. OF QAIS			
	26° 38′ N			
	54° 12′ E	SFC (0)	23.2	37.9
		10	23.0	38.1
		28	22.8	38.3

Table 4: Observations of the Persian Gulf (M/S RASHGOO), 1937-38, Blegvad.

REFERENCE COUNTRY CODE	REFERENCE IDENTITY NUMBER	SHIP CODE	LATITUDE ° ′1/10	LONGITUDE ° ′1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MONTH	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.		NODC STATION NUMBER
31	S04	CP	2523 N	051415E		103	51	08	17	040	1948			0007	00									0001

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS

MESSENGER TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA—T	SPECIFIC VOLUME ANOMALY—X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4—P µg-at/l	TOTAL—P µg-at/l	NO_2—N µg-at/l	NO_3—N µg-at/l	SiO_4—Si µg-at/l	pH
		STD	0000	3390	4090	2478	0031803	0000	15596							
	1	OBS	0000	339	4090	2478			15596							
	2	OBS	0007	350 P	4021P	2384Q										

REFERENCE COUNTRY CODE	REFERENCE IDENTITY NUMBER	SHIP CODE	LATITUDE ° ′1/10	LONGITUDE ° ′1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MONTH	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.		NODC STATION NUMBER
31	S04	CP	26055N	05124 E		103	61	08	20	055	1948			0007	00									0002

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS

MESSENGER TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA—T	SPECIFIC VOLUME ANOMALY—X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4—P µg-at/l	TOTAL—P µg-at/l	NO_2—N µg-at/l	NO_3—N µg-at/l	SiO_4—Si µg-at/l	pH
		OBS	0007	339	4095	2481			15598							

REFERENCE COUNTRY CODE	REFERENCE IDENTITY NUMBER	SHIP CODE	LATITUDE ° ′1/10	LONGITUDE ° ′1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MONTH	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.		NODC STATION NUMBER
31	S04	CP	2616 N	05033 E		103	60	08	26	118	1948			0015	00									0003

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS

MESSENGER TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA—T	SPECIFIC VOLUME ANOMALY—X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4—P µg-at/l	TOTAL—P µg-at/l	NO_2—N µg-at/l	NO_3—N µg-at/l	SiO_4—Si µg-at/l	pH
		STD	0000	3440	4241	2572	0022777	0000	15621							
	1	OBS	0000	344	4241	2572			15621							
		STD	0010	3440												
	2	OBS	0015	344	4318	2631			15631							

REFERENCE: COUNTRY CODE	REFERENCE: IDENTITY NUMBER	SHIP CODE	LATITUDE ° ′ 1/10	LONGITUDE ° ′ 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MONTH	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.		NODC STATION NUMBER
31	S04	CP	25510N	052010E		103	52	08	16	240	1948				00									0004

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS
	06								

MESSENGER TIME HR. 1/10	SEQ.	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA—T	SPECIFIC VOLUME ANOMALY—X10⁷	Σ A D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4—P µg-at/l	TOTAL—P µg-at/l	NO_2—N µg-at/l	NO_3—N µg-at/l	SiO_4—Si µg-at/l	pH
			STD	0000	3400	3994	2402	0039038	0000	15588							
		1	OBS	0000	340	3994	2402			15588							
		1	OBS	0006		4021											

REFERENCE: COUNTRY CODE	REFERENCE: IDENTITY NUMBER	SHIP CODE	LATITUDE ° ′ 1/10	LONGITUDE ° ′ 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MONTH	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.		NODC STATION NUMBER
31	S04	CP	26055N	051240E		103	61	08	20	055	1948			0007	00									0005

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS
	09								

MESSENGER TIME HR. 1/10	SEQ.	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA—T	SPECIFIC VOLUME ANOMALY—X10⁷	Σ A D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4—P µg-at/l	TOTAL—P µg-at/l	NO_2—N µg-at/l	NO_3—N µg-at/l	SiO_4—Si µg-at/l	pH
			STD	0000	3390												
		1	OBS	0000	339												
		1	OBS	0006		4095											

REFERENCE: COUNTRY CODE	REFERENCE: IDENTITY NUMBER	SHIP CODE	LATITUDE ° ′ 1/10	LONGITUDE ° ′ 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MONTH	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.		NODC STATION NUMBER
31	S04	MY	2313 N	059380E		103	39	08	15	130	1948			3274	01									0006

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS
	32								

MESSENGER TIME HR. 1/10	SEQ.	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA—T	SPECIFIC VOLUME ANOMALY—X10⁷	Σ A D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4—P µg-at/l	TOTAL—P µg-at/l	NO_2—N µg-at/l	NO_3—N µg-at/l	SiO_4—Si µg-at/l	pH
			STD	0000	3230	3694	2239	0054561	0000	15525							
		1	OBS	0000	323	3694	2239			15525							
			STD	0010	3156	3697	2268	0051855	0053	15512							
			STD	0020	3010	3700	2321	0046799	0103	15485							
		1	OBS	0020	301	3700	2321			15485							
			STD	0030	2661	3662	2408	0038527	0145	15408							
			STD	0050	2140	3608	2522	0027723	0211	15279							
		1	OBS	0050	214	3608	2522			15279							
			STD	0075	2005	3604	2556	0024619	0277	15247							
			STD	0100	1870	3600	2588	0021655	0335	15213							
		1	OBS	0100	187	3600	2588			15213							

REFERENCE COUNTRY CODE	REFERENCE IDENTITY NUMBER	SHIP CODE	LATITUDE ° ′ 1/10	LONGITUDE ° ′ 1/10	DUPLICATE INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MONTH	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.		NODC STATION NUMBER
31	S04	MY	25340N	057045E		103	57	08	16	030	1948			0205	02									0007

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS

MESSENGER TIME HR. 1/10	SAMPLE CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA—T	SPECIFIC VOLUME ANOMALY—X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4—P µg-at/l	TOTAL—P µg-at/l	NO_2—N µg-at/l	NO_3—N µg-at/l	SiO_4—Si µg-at/l	pH
		STD	0000	3180	3655	2228	0055639	0000	15511							
	1	OBS	0000	318	3655	2228			15511							
		STD	0010	2805	3643	2347	0044252	0050	15434							
		STD	0020	2500	3635	2438	0035641	0090	15367							
	1	OBS	0020	250	3635	2438			15367							
		STD	0030	2302	3635	2497	0030045	0123	15321							
		STD	0050	2010	3636	2579	0022339	0175	15248							
	1	OBS	0050	201	3636	2579			15248							
		STD	0075	1945	3637	2597	0020727	0229	15235							
		STD	0100	1880	3638	2614	0019146	0279	15221							
	1	OBS	0100	188	3638	2614			15221							
		STD	0125		3628											
		STD	0150		3611											
		STD	0200		3554											
	1	OBS	0203		3550											

REFERENCE COUNTRY CODE	REFERENCE IDENTITY NUMBER	SHIP CODE	LATITUDE ° ′ 1/10	LONGITUDE ° ′ 1/10	DUPLICATE INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MONTH	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.		NODC STATION NUMBER
31	S04	MY	26045N	056470E		103	66	08	16	105	1948			0080	01									0008

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS
	23								

MESSENGER TIME HR. 1/10	SAMPLE CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA—T	SPECIFIC VOLUME ANOMALY—X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4—P µg-at/l	TOTAL—P µg-at/l	NO_2—N µg-at/l	NO_3—N µg-at/l	SiO_4—Si µg-at/l	pH
		STD	0000	3250	3689	2228	0055611	0000	15528							
	1	OBS	0000	325	3689	2228			15528							
		STD	0010	3183	3695	2256	0052955	0054	15517							
		STD	0020	3040	3700	2311	0047791	0105	15491							
	1	OBS	0020	304	3700	2311			15491							
		STD	0030	2620	3667	2425	0036930	0147	15399							
		STD	0050	2160	3629	2533	0026735	0211	15287							
	1	OBS	0050	216	3629	2533			15287							
		STD	0075		3636											
	1	OBS	0080	242 P	3644	2469 Q										

REFERENCE COUNTRY CODE	REFERENCE IDENTITY NUMBER	SHIP CODE	LATITUDE ° ′ 1/10	LONGITUDE ° ′ 1/10	DUPLICATE INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MONTH	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.		NODC STATION NUMBER
31	S04	MY	26165N	056340E		103	66	08	16	140	1948			0123	01									0009

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS
	21								

MESSENGER TIME HR. 1/10	SAMPLE CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA—T	SPECIFIC VOLUME ANOMALY—X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4—P µg-at/l	TOTAL—P µg-at/l	NO_2—N µg-at/l	NO_3—N µg-at/l	SiO_4—Si µg-at/l	pH
		STD	0000	3440	3689	2158	0062332	0000	15564							
	1	OBS	0000	344	3689	2158			15564							
		STD	0010	3365	3683	2181	0060159	0061	15551							
		STD	0020	3210	3676	2233	0055252	0119	15522							
	1	OBS	0020	321	3676	2233			15522							
		STD	0030	2796	3705	2397	0039605	0166	15442							
		STD	0050	2270	3783	2619	0018598	0225	15333							
	1	OBS	0050	227	3783	2619			15333							
		STD	0075	2364	3921	2696	0011389	0262	15376							
	1	OBS	0090	242	4026	2759			15404							

REFERENCE COUNTRY CODE	REFERENCE IDENTITY NUMBER	SHIP CODE	LATITUDE ° ′ 1/10	LONGITUDE ° ′ 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MONTH	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.		NODC STATION NUMBER
31	S04	MY	26250N	056315E		103	66	08	16	202	1948				02									0010

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS

MESSENGER TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA—T	SPECIFIC VOLUME ANOMALY—X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4—P µg-at/l	TOTAL—P µg-at/l	NO_2—N µg-at/l	NO_3—N µg-at/l	SiO_4—Si µg-at/l	pH
		STD	0000	3230	3748	2280	0050690	0000	15530							
	1	OBS	0000	323	3748	2280			15530							
		STD	0010	3205	3787	2318	0047079	0049	15531							
		STD	0020	3180	3824	2355	0043618	0094	15532							
	1	OBS	0020	318	3824	2355			15532							
		STD	0030	2880	3860	2486	0031149	0132	15477							
		STD	0050	2440	3920	2672	0013531	0176	15390							
	1	OBS	0050	244	3920	2672			15390							
		STD	0075	2347	3968	2737	0007534	0203	15377							
		STD	0100	2280	4006	2785	0003033	0216	15369							
	1	OBS	0100	228	4006	2785			15369							
		STD	0125	2280	4033	2806	0001200	0221	15377							
		STD	0150	2280	4050	2819	0000087	0223	15383							
		STD	0200	2280	4053	2821	0000090	0223	15391							
	1	OBS	0200	228	4053	2821			15391							

REFERENCE COUNTRY CODE	REFERENCE IDENTITY NUMBER	SHIP CODE	LATITUDE ° ′ 1/10	LONGITUDE ° ′ 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MONTH	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.		NODC STATION NUMBER
31	S04	MY	26310N	055510E		103	65	08	17	070	1948			0059	00									0011

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS
	14								

MESSENGER TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA—T	SPECIFIC VOLUME ANOMALY—X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4—P µg-at/l	TOTAL—P µg-at/l	NO_2—N µg-at/l	NO_3—N µg-at/l	SiO_4—Si µg-at/l	pH
		STD	0000	3310	3748	2250	0053476	0000	15546							
	1	OBS	0000	331	3748	2250			15546							
		STD	0010	3111	3741	2317	0047179	0050	15508							
		STD	0020	2960	3734	2364	0042724	0095	15478							
	1	OBS	0020	296	3734	2364			15478							
		STD	0030	2856	3768	2425	0036981	0135	15462							
		STD	0050	2790	3916	2558	0024370	0196	15468							
	1	OBS	0050	279	3916	2558			15468							

REFERENCE COUNTRY CODE	REFERENCE IDENTITY NUMBER	SHIP CODE	LATITUDE ° ′ 1/10	LONGITUDE ° ′ 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MONTH	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.		NODC STATION NUMBER
31	S04	MY	26165N	055455E		103	65	08	17	085	1948			0095	00									0012

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS
	22								

MESSENGER TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA—T	SPECIFIC VOLUME ANOMALY—X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4—P µg-at/l	TOTAL—P µg-at/l	NO_2—N µg-at/l	NO_3—N µg-at/l	SiO_4—Si µg-at/l	pH
		STD	0000	3280	3732	2249	0053572	0000	15538							
	1	OBS	0000	328	3732	2249			15538							
		STD	0010	3066	3754	2342	0044738	0049	15500							
		STD	0020	2910	3775	2412	0038163	0091	15472							
	1	OBS	0020	291	3775	2412			15472							
		STD	0030	2812	3796	2460	0033578	0126	15456							
		STD	0050	2790	3835	2497	0030178	0190	15459							
	1	OBS	0050	279	3835	2497			15459							

REFERENCE COUNTRY CODE	REFERENCE IDENTITY NUMBER	SHIP CODE	LATITUDE ° ′ 1/10	LONGITUDE ° ′ 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MONTH	DAY	HR. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	HGT.	PER.	SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	AMT.		NODC STATION NUMBER
31	S04	MY	26050N	055420E		103	65	08	17	100	1948			0068	00									0013

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS
	24								

MESSENGER TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA—T	SPECIFIC VOLUME ANOMALY—X10⁷	Σ ΔD DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4—P µg-at/l	TOTAL—P µg-at/l	NO_2—N µg-at/l	NO_3—N µg-at/l	SiO_4—Si µg-at/l	pH
		STD	0000	3300	3716	2230	0055419	0000	15540							
	1	OBS	0000	330	3716	2230			15540							
		STD	0010		3720											
		STD	0020		3723											
	1	OBS	0020		3723											
		STD	0030		3779											
		STD	0050		3994											
	1	OBS	0050		3994											

REFERENCE COUNTRY CODE	REFERENCE IDENTITY NUMBER	SHIP CODE	LATITUDE ° ′ 1/10	LONGITUDE ° ′ 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MONTH	DAY	HR. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	HGT.	PER.	SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	AMT.		NODC STATION NUMBER
31	S04	MY	26025N	055115E		103	65	08	17	136	1948			0095	00									0014

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS
	14								

MESSENGER TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA—T	SPECIFIC VOLUME ANOMALY—X10⁷	Σ ΔD DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4—P µg-at/l	TOTAL—P µg-at/l	NO_2—N µg-at/l	NO_3—N µg-at/l	SiO_4—Si µg-at/l	pH
		STD	0000	3380	3722	2205	0057815	0000	15556							
	1	OBS	0000	338	3722	2205			15556							
		STD	0010	3103	3765	2338	0045189	0052	15509							
		STD	0020	2890	3817	2450	0034508	0091	15473							
	1	OBS	0020	289	3817	2450			15473							
		STD	0030	2742	3877	2544	0025577	0121	15450							
		STD	0050	2640	4023	2688	0012061	0159	15447							
	1	OBS	0050	264	4023	2688			15447							

REFERENCE COUNTRY CODE	REFERENCE IDENTITY NUMBER	SHIP CODE	LATITUDE ° ′ 1/10	LONGITUDE ° ′ 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MONTH	DAY	HR. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	HGT.	PER.	SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	AMT.		NODC STATION NUMBER
31	S04	MY	26350N	052400E		103	62	08	18	110	1948			0069	00									0015

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS
	18								

MESSENGER TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA—T	SPECIFIC VOLUME ANOMALY—X10⁷	Σ ΔD DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4—P µg-at/l	TOTAL—P µg-at/l	NO_2—N µg-at/l	NO_3—N µg-at/l	SiO_4—Si µg-at/l	pH
		STD	0000	3430	3875	2301	0048641	0000	15581							
	1	OBS	0000	343	3875	2301			15581							
		STD	0010	3186	3934	2435	0035895	0042	15543							
		STD	0020	2930	3979	2559	0024184	0072	15499							
	1	OBS	0020	293	3979	2559			15499							
		STD	0030	2662	4011	2672	0013500	0091	15447							
		STD	0050	2090	4034	2861	-0004341	0100	15316							
	1	OBS	0050	209	4034	2861			15316							

REFERENCE: COUNTRY CODE	REFERENCE: IDENTITY NUMBER	SHIP CODE	LATITUDE ° ′ 1/10	LONGITUDE ° ′ 1/10	DATE INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MONTH	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.		NODC STATION NUMBER
31	S04	MY	27130N	052400E		103	72	08	18	145	1948			0069	00									0016

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS
	13								

MESSENGER TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA—T	SPECIFIC VOLUME ANOMALY—X10⁷	Σ ΔD DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4—P µg-at/l	TOTAL—P µg-at/l	NO_2—N µg-at/l	NO_3—N µg-at/l	SiO_4—Si µg-at/l	pH
		STD	0000	3460	3803	2236	0054883	0000	15579							
	1	OBS	0000	346	3803	2236			15579							
		STD	0010		3811											
		STD	0020		3819											
	1	OBS	0020		3819											
		STD	0030		3868											
	1	OBS	0040		3945											

REFERENCE: COUNTRY CODE	REFERENCE: IDENTITY NUMBER	SHIP CODE	LATITUDE ° ′ 1/10	LONGITUDE ° ′ 1/10	DATE INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MONTH	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.		NODC STATION NUMBER
31	S04	MY	27125N	052070E		103	72	08	19	015	1948			0051	00									0017

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS

MESSENGER TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA—T	SPECIFIC VOLUME ANOMALY—X10⁷	Σ ΔD DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4—P µg-at/l	TOTAL—P µg-at/l	NO_2—N µg-at/l	NO_3—N µg-at/l	SiO_4—Si µg-at/l	pH
		STD	0000	3460	3842	2265	0052088	0000	15583							
	1	OBS	0000	346	3842	2265			15583							
		STD	0010	3195	3866	2381	0041075	0047	15537							
		STD	0020	2930	3893	2494	0030349	0082	15489							
	1	OBS	0020	293	3893	2494			15489							
		STD	0030	2664	3923	2604	0019876	0107	15438							
		STD	0050	2130	3992	2818	-0000253	0127	15322							
	1	OBS	0050	213	3992	2818			15322							

REFERENCE: COUNTRY CODE	REFERENCE: IDENTITY NUMBER	SHIP CODE	LATITUDE ° ′ 1/10	LONGITUDE ° ′ 1/10	DATE INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MONTH	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.		NODC STATION NUMBER
31	S04	MY	27360N	051255E		103	71	08	19	080	1948			0035	00									0018

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS
	17								

MESSENGER TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA—T	SPECIFIC VOLUME ANOMALY—X10⁷	Σ ΔD DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4—P µg-at/l	TOTAL—P µg-at/l	NO_2—N µg-at/l	NO_3—N µg-at/l	SiO_4—Si µg-at/l	pH
		STD	0000	3400	3795	2252	0053297	0000	15567							
	1	OBS	0000	340	3795	2252			15567							
		STD	0020		3855											
	1	OBS	0020		3855											

REFERENCE: COUNTRY CODE	REFERENCE: IDENTITY NUMBER	SHIP CODE	LATITUDE ° ′ 1/10	LONGITUDE ° ′ 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MONTH	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.		NODC STATION NUMBER
31	S04	MY	27115N	051015E		103	71	08	19	110	1948			0064	00									0019

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS
	26								

MESSENGER TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA—T	SPECIFIC VOLUME ANOMALY—X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4—P µg-at/l	TOTAL—P µg-at/l	NO_2—N µg-at/l	NO_3—N µg-at/l	SiO_4—Si µg-at/l	pH
		STD	0000	3350	3875	2331	0045785	0000	15566							
	1	OBS	0000	335	3875	2331			15566							
		STD	0010	3126	3908	2437	0035716	0041	15529							
		STD	0020	2890	3947	2548	0025187	0071	15487							
	1	OBS	0020	289	3947	2548			15487							
		STD	0030	2642	3993	2664	0014183	0091	15441							
		STD	0050	2110	4106	2910	-0009004	0096	15330							
	1	OBS	0050	211	4106	2910			15330							

REFERENCE: COUNTRY CODE	REFERENCE: IDENTITY NUMBER	SHIP CODE	LATITUDE ° ′ 1/10	LONGITUDE ° ′ 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MONTH	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.		NODC STATION NUMBER
31	S04	MY	28130N	050485E		103	80	08	19	190	1948			0059	00									0020

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS

MESSENGER TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA—T	SPECIFIC VOLUME ANOMALY—X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4—P µg-at/l	TOTAL—P µg-at/l	NO_2—N µg-at/l	NO_3—N µg-at/l	SiO_4—Si µg-at/l	pH
		STD	0000	3420	3831	2272	0051434	0000	15575							
	1	OBS	0000	342	3831	2272			15575							
		STD	0010		3831											
		STD	0020		3831											
	1	OBS	0020		3831											
		STD	0030		3881											
		STD	0050		4082											
	1	OBS	0050		4082											

REFERENCE: COUNTRY CODE	REFERENCE: IDENTITY NUMBER	SHIP CODE	LATITUDE ° ′ 1/10	LONGITUDE ° ′ 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MONTH	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.		NODC STATION NUMBER
31	S04	MY	28020N	050140E		103	80	08	19	217	1948			0057	00									0021

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS

MESSENGER TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA—T	SPECIFIC VOLUME ANOMALY—X10⁷	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4—P µg-at/l	TOTAL—P µg-at/l	NO_2—N µg-at/l	NO_3—N µg-at/l	SiO_4—Si µg-at/l	pH
		STD	0000	3360	3869	2323	0046570	0000	15567							
	1	OBS	0000	336	3869	2323			15567							
		STD	0010	3165	3934	2443	0035177	0041	15539							
		STD	0020	2940	3988	2562	0023864	0070	15502							
	1	OBS	0020	294	3988	2562			15502							
		STD	0030	2684	4031	2680	0012738	0089	15454							
		STD	0050	2080	4082	2900	-0008067	0093	15319							
	1	OBS	0050	208	4082	2900			15319							

REFERENCE COUNTRY CODE	REFERENCE IDENTITY NUMBER	SHIP CODE	LATITUDE ° ′ 1/10	LONGITUDE ° ′ 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MONTH	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS INT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.		NODC STATION NUMBER
31	S04	MY	2559 N	05403 E		103	54	08	17	219	1948				00									0022

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS

MESSENGER TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA—T	SPECIFIC VOLUME ANOMALY—X10⁷	ΣΔD DYN. ΔL X 10³	SOUND VELOCITY	O_2 ml/l	PO_4—P µg-at/l	TOTAL—P µg-at/l	NO_2—N µg-at/l	NO_3—N µg-at/l	SiO_4—Si µg-at/l	pH
		STD	0000	3390	3947	2370	0042048	0000	15581							
	1	OBS	0000	339	3947	2370			15581							
		STD	0010	3128	3964	2478	0031771	0037	15535							
		STD	0020	2880	3979	2576	0022572	0064	15488							
	1	OBS	0020	288	3979	2576			15488							
		STD	0030	2646	3992	2662	0014376	0083	15441							
		STD	0050	2220	4014	2809	0000588	0098	15347							
	1	OBS	0050	222	4014	2809			15347							

OCEANOGRAPHIC STATIONS - Kuwait Harbor

Date: 23-24 February 1949
Ship: U.S.S. JOHN BLISH

Station No.	Date	Time (LST)	Depth (m.)	Temp. (°F.)	Sal. (‰)
1	2/23	0903	Surf.	56.1*	40.21
			12	55.29	40.28
2	2/23	1020	Surf.	56.8*	M.**
			11	54.45	40.93
3	2/23	1214	Surf.	56.8*	41.20
			2	55.86	41.17
4	2/23	1410	Surf.	57.2*	M.**
			4	55.81	M.**
5	2/23	1635	Surf.	58.1*	40.53
			3.5	55.84	40.51
6	2/24	0824	Surf.	56.5*	40.16
			5.5	56.33	M.**
7	2/24	1112	Surf.	58.63	40.11
			17	55.96	40.10
8	2/24	1209	Surf.	59.23	40.29
			3.5	56.60	40.22
9	2/24	1242	Surf.	59.43	39.96
			5	56.69	40.17
10	2/24	1325	Surf.	59.59	40.06
			8	56.53	M.**
11	2/24	1336	Surf.	57.39	M.**
			8	56.22	40.06
12	2/24	1420	Surf.	58.32	39.52
			4	56.40	39.90
13	2/24	1457	Surf.	57.73	39.32
			3	55.77	39.59
14	2/24	1531	Surf.	57.98	M.**
			2.5	55.43	38.20
15	2/24	1558	Surf.	57.86	M.**
			2.5	56.69	37.89
16	2/24	1625	Surf.	57.91	37.97
17	2/24	1700	Surf.	57.50	37.77

Note:
* Bucket thermometer used, read only to tenths °F.
** Sample bottles lost or broken, values missing.

23 Feb. - Wind: B. F. 2
Sea: Code 2
Weather: 00/01

24 Feb. - Wind: B. F. 1
Sea: Code 2
Weather: 02

Table 5: Oceanographic Stations—Kuwait Harbor (USS JOHN BLISH), 1949, Dubach and Wehe.

APPENDIX B

RECENT OBSERVATIONS (POST-1950)

INDEX OF RECENT OBSERVATIONS (POST-1950)

NODC Machine Listing:

31382 —	U. S. Naval Oceanographic Office, Washington, D. C. Manuscript Data. 4 Dec.—20 April 1950 74 Stations	MAURY STALLION ALLEGHENY

Table 6: Surface and Subsurface Salinity Observations (USS STALLION and MAURY), 1951, U. S. Naval Oceanographic Office, Washington, D. C. Manuscript Data.

NODC Machine Listings:

31S05 —	U. S. Naval Oceanographic Office, Washington, D. C. Manuscript Data. 9, 12, 15, 17, 23 Feb. 1951. 5 Stations	MAURY & others
31496 —	U. S. Naval Oceanographic Office, Washington, D. C. Manuscript Data. Cruise A, B, C, 24-25 Nov. 1951, 20-21 Feb. 1952, 9-10 April, 1952. 51 Stations	ALLEGHENY
31658 —	U. S. Naval Oceanographic Office, Washington, D. C. Manuscript Data. 16 Feb.—5 Mar. 1960, 55 Stations	REQUISITE
31865 —	U. S. Naval Oceanographic Office, Washington, D. C. Manuscript Data. For Stations in the Persian Gulf and Arabian Sea. 4 Jan.—31 Mar. 1961 206 Stations	REQUISITE

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0001	12	04	1949	09	29° 06′ N	048° 10′ E	0018	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
14	14						02				3					

SUBSURFACE OBSERVATIONS								
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	21 04	40 58	28 75	0 000		
OBS	0000	21 04	40 58	28 75			
STD	0010	21 06	40 53	28 71	0 006-		
OBS	0010	21 06	40 53	28 71			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0002	12	05	1949	06	29° 06′ N	048° 10′ E	0018	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
13	14						01				3					

SUBSURFACE OBSERVATIONS								
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	20 95	40 70	28 87	0 000		
OBS	0000	20 95	40 70	28 87			
STD	0010	20 91	40 53	28 75	0 006-		
OBS	0010	20 91	40 53	28 75			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0003	12	05	1949	10	29° 06′ N	048° 10′ E	0018	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
05	18						01				2					

SUBSURFACE OBSERVATIONS								
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	20 91	40 50	28 73	0 000		
OBS	0000	20 91	40 50	28 73			
STD	0010	20 88	40 66	28 86	0 006-		
OBS	0010	20 88	40 66	28 86			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0004	12	07	1949	06	29° 06′ N	048° 09′ E	0013	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
							02				2					

	SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		↓ ΣΔD		O_2 ml/l ↓		V_l ↓	
STD	0000	20	18	40	79	29	15	0	000				
OBS	0000	20	18	40	79	29	15						
STD	0010	20	14	40	76	29	14	0	010-				
OBS	0010	20	14	40	76	29	14						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0004	12	09	1949	07	29° 06′ N	048° 09′ E	0013	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
							01				1					

	SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		↓ ΣΔD		O_2 ml/l ↓		V_l ↓	
STD	0000	20	29	40	51	28	91	0	000				
OBS	0000	20	29	40	51	28	91						
STD	0010	20	00	40	54	29	01	0	008-				
OBS	0010	20	00	40	54	29	01						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0005	12	14	1949	10	26° 37′ N	050° 11′ E	0016	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
11	33						01				3					06

	SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		↓ ΣΔD		O_2 ml/l ↓		V_l ↓	
STD	0000	21	06	40	30	28	53	0	000				
OBS	0000	21	06	40	30	28	53						
STD	0010	20	95	40	23	28	51	0	004-				
OBS	0010	20	95	40	23	28	51						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0006	12	16	1949	10	26° 37′ N	050° 11′ E	0016	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
05	29						01				2					07

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	19 86	40 28	28 85	0 000		
OBS	0000	19 86	40 28	28 85			
STD	0010	19 76	40 26	28 86	0 007–		
OBS	0010	19 76	40 26	28 86			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0007	12	17	1949	11	26° 37′ N	050° 11′ E	0016	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
03	35						01				1					08

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	19 98	40 24	28 78	0 000		
OBS	0000	19 98	40 24	28 78			
STD	0010	19 73	40 19	28 81	0 006–		
OBS	0010	19 73	40 19	28 81			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0008	01	17	1950	14	29° 06′ N	048° 11′ E	0018	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
10	35						00				4					04

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	14 40	40 23	30 16	0 000		
OBS	0000	14 40	40 23	30 16			
STD	0010	14 39	40 12	30 08	0 019–		
OBS	0010	14 39	40 12	30 08			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0009	01	17	1950	05	29° 06′ N	048° 15′ E	0027	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
08	32						01				4					03

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_l ↓
STD	0000	13 71	39 71	29 91	0 000		
OBS	0000	13 71	39 71	29 91			
STD	0010	13 71	39 63	29 85	0 017-		
OBS	0010	13 71	39 63	29 85			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0010	01	20	1950	06	29° 06′ N	048° 15′ E	0019	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
05	31						00				1					03

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	δ_{10° ↓
STD	0000	13 64	39 56	29 81	0 000-		
OBS	0000	13 64	39 56	29 81			
STD	0010	13 58	39 68	29 91	0 016-		
OBS	0010	13 58	39 68	29 91			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0011	01	21	1950	08	29° 26′ N	047° 57′ E	0011	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
11							02				2					03

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_l ↓
STD	0000		40 70				
OBS	0000	11 22*	40 70	31 19*			
STD	0010		40 93				
OBS	0010	15 71*	40 93	30 40*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0012	01	21	1950	11	29° 25′ N	047° 57′ E	0011	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
14							02				3					04

SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓		O_2 ml/l ↓		V_f ↓	
STD	0000	11	80	40	44	30	88	0	000				
OBS	0000	11	80	40	44	30	88						
STD	0010	11	78	40	51	30	93	0	026–				
OBS	0010	11	78	40	51	30	93						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0013	01	23	1950	06	29° 08′ N	048° 30′ E	0011	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
07	36						00				4					01

SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓		O_2 ml/l ↓		V_f ↓	
STD	0000	11	28	39	18	30	00	0	000				
OBS	0000	11	28	39	18	30	00						
STD	0010	11	67	39	24	29	97	0	018–				
OBS	0010	11	67	39	24	29	97						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0014	01	24	1950	05	29° 07′ N	048° 10′ E	0018	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
07	36						00				4					03

SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓		O_2 ml/l ↓		V_f ↓	
STD	0000			40	01								
OBS	0000	13	22*	40	01	30	25*						
STD	0010			40	02								
OBS	0010	15	85*	40	02	29	66*						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0015	01	25	1950	06	29° 20′ N	048° 11′ E	0011	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
22							00				3					00

SUBSURFACE OBSERVATIONS								
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_l ↓
STD	0000	11 58	38 37	29 31	0 000		
OBS	0000	11 58	38 37	29 31			
STD	0010	11 88	39 49	30 12	0 015–		
OBS	0010	11 88	39 49	30 12			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0016	01	26	1950	05	29° 20′ N	048° 11′ E	0011	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
05	02						02				2					00

SUBSURFACE OBSERVATIONS								
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_l ↓
STD	0000	11 53	38 35	29 30	0 000		
OBS	0000	11 53	38 35	29 30			
STD	0010	12 23	39 76	30 26	0 016–		
OBS	0010	12 23	39 76	30 26			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0017	01	27	1950	04	29° 20′ N	048° 11′ E	0011	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
10	33						02				3					

SUBSURFACE OBSERVATIONS								
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_l ↓
STD	0000	11 68	38 77	29 60	0 000		
OBS	0000	11 68	38 77	29 60			
STD	0010	12 44	39 78	30 23	0 017–		
OBS	0010	12 44	39 78	30 23			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0018	01	27	1950	09	29° 03′ N	048° 10′ E	0015	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
03	28						02				3					04

SUBSURFACE OBSERVATIONS								
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_l ↓	
STD	0000		40 08					
OBS	0000	10 42*	40 08	30 86*				
STD	0010		40 11					
OBS	0010	13 00*	40 11	30 37*				

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0019	01	27	1950	18	29° 26′ N	047° 58′ E	0015	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
18	29						00				4					02

SUBSURFACE OBSERVATIONS								
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_l ↓	
STD	0000		40 02					
OBS	0000	06 82*	40 02	31 42*				
STD	0010		40 12					
OBS	0010	11 69*	40 12	30 65*				

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0020	01	28	1950	06	29° 26′ N	047° 58′ E	0015	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
12	31						00				4					03

SUBSURFACE OBSERVATIONS								
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_l ↓	
STD	0000	10 61	40 32	31 01	0 000			
OBS	0000	10 61	40 32	31 01				
STD	0010	08 97	40 32	31 31	0 029			
OBS	0010	08 97	40 32	31 31				

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0021	01	29	1950	14	29° 26′ N	047° 58′ E	0015	00

WIND		ANEMO HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
03	35						00				3					03

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_l ↓
STD	0000	11 54	39 76	30 40	0 000		
OBS	0000	11 54	39 76	30 40			
STD	0010	09 18	39 72	30 80	0 023–		
OBS	0010	09 18	39 72	30 80			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0022	01	30	1950	07	29° 08′ N	048° 29′ E	0016	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
05	34						00				3					02

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_l ↓
STD	0000	11 78	39 24	29 95	0 000		
OBS	0000	11 78	39 24	29 95			
STD	0010	11 82	39 20	29 91	0 017–		
OBS	0010	11 82	39 20	29 91			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0023	01	30	1950	10	29° 20′ N	048° 10′ E	0020	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
08	31						00				3					04

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_l ↓
STD	0000	12 14	39 67	30 21	0 000		
OBS	0000	12 14	39 67	30 21			
STD	0010	12 04	39 74	30 28	0 020–		
OBS	0010	12 04	39 74	30 28			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0024	01	30	1950	15	29° 06′ N	048° 10′ E	0016	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
04	32						00				3					03

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_l ↓
STD	0000	12 43	40 08	30 47	0 000		
OBS	0000	12 43	40 08	30 47			
STD	0010	12 43					
OBS	0010	12 43					

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0025	01	31	1950	04	29° 06′ N	048° 10′ E	0016	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
09	31						00				3					04

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_l ↓
STD	0000	11 87					
OBS	0000	11 87					
STD	0010	12 15					
OBS	0010	12 15					

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0028	02	19	1950	07	29° 00′ N	048° 12′ E	0018	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
10	32						00				4					04

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_l ↓
STD	0000	11 74	39 88	30 45	0 000		
OBS	0000	11 74	39 88	30 45			
STD	0010	11 69	39 88	30 46	0 022–		
OBS	0010	11 69	39 88	30 46			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0029	02	20	1950	10	29° 21′ N	048° 10′ E	0018	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
12	14						02				4					01

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_l ↓
STD	0000	12 10	39 86	30 36	0 000		
OBS	0000	12 10	39 86	30 36			
STD	0010	11 90	39 90	30 44	0 021-		
OBS	0010	11 90	39 90	30 44			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0030	02	22	1950	06	29° 21′ N	048° 10′ E	0018	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
10	18						02				4					

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_l ↓
STD	0000	12 55	39 29	29 83	0 000		
OBS	0000	12 55	39 29	29 83			
STD	0010	11 63	39 95	30 53	0 019-		
OBS	0010	11 63	39 95	30 53			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0031	02	23	1950	05	29° 21′ N	048° 10′ E	0018	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
04							02				3					00

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_l ↓
STD	0000	12 96	39 07	29 57	0 000		
OBS	0000	12 96	39 07	29 57			
STD	0010	13 56	39 69	29 93	0 015-		
OBS	0010	13 56	39 69	29 93			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0032	02	27	1950	05	29° 24′ N	048° 00′ E	0022	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
06	29						00				3					

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ $\Sigma\Delta D$	O_2 ml/l ↓	V_l ↓
OBS	0000	12 94*	40 72*	30 86*			
OBS	0010	13 20*	39 43*	29 80*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0033	02	28	1950	10	29° 06′ N	048° 10′ E	0018	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
04	02						00				1					

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ $\Sigma\Delta D$	O_2 ml/l ↓	V_l ↓
STD	0000	13 82	39 73	29 90	0 000		
OBS	0000	13 82	39 73	29 90			
STD	0010	12 71	39 73	30 14	0 018–		
OBS	0010	12 71	39 73	30 14			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0034	03	01	1950	04	29° 06′ N	048° 10′ E	0018	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
07	32						00				3					

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ $\Sigma\Delta D$	O_2 ml/l ↓	V_l ↓
STD	0000	13 79					
OBS	0000	13 79					
OBS	0005	13 38	39 76	30 02			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0035	03	01	1950	09	29° 06′ N	048° 10′ E	0018	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
05	03						00				1					

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_l ↓
STD	0000	14 11					
OBS	0000	14 11					
STD	0010	13 56					
OBS	0010	13 56					

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0036	03	05	1950	11	29° 02′ N	048° 30′ E	0016	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
00	09						02				1					

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_l ↓
STD	0000	14 94	39 47	29 45	0 000		
OBS	0000	14 94	39 47	29 45			
OBS	0010	17 20*		*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0037	03	06	1950	05	29° 05′ N	048° 30′ E	0016	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
06	16						02				1					04

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_l ↓
STD	0000	14 96	39 51	29 48	0 000		
OBS	0000	14 96	39 51	29 48			
STD	0010	13 36					
OBS	0010	13 36					

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0038	03	14	1950	10	29° 00′ N	048° 10′ E	0016	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
04	07						00				1					03

SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		↓	ΣΔD	O_2 ml/l ↓		V_l ↓	
STD	0000	17	31	39	15	28	64	0	000				
OBS	0000	17	31	39	15	28	64						
STD	0010	15	61	39	22	29	10	0	007-				
OBS	0010	15	61	39	22	29	10						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0039	03	14	1950	14	29° 25′ N	048° 04′ E	0020	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
00	00						00				1					

SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		↓	ΣΔD	O_2 ml/l ↓		V_l ↓	
STD	0000	18	86	39	16	28	26	0	000				
OBS	0000	18	86	39	16	28	26						
OBS	0005	15	71	39	19	29	06						
STD	0010	15	43	39	26	29	18	0	006				
OBS	0010	15	43										
OBS	0015	16	91*	39	36	28	90*						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0040	03	14	1950	15	29° 17′ N	048° 12′ E	0020	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
00	00						00				1					

SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		↓	ΣΔD	O_2 ml/l ↓		V_l ↓	
STD	0000	16	34	38	58	28	44	0	000				
OBS	0000	16	34	38	58	28	44						
OBS	0005	15	62	38	86	28	82						
STD	0010	15	00	39	10	29	15	0	006-				
OBS	0010	15	00										
OBS	0015	15	00	39	29	29	30						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0041	03	14	1950	17	29° 09′ N	048° 20′ E	0020	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
01	20						00				2					

SUBSURFACE OBSERVATIONS														
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		↓ ΣΔD		O_2 ml/l ↓		V_f ↓		
STD	0000	15	77	32	88	24	19	0	000					
OBS	0000	15	77	32	88	24	19							
OBS	0005	15	43	38	60	28	67							
STD	0010	14	31	39	83	29	87	0	010					
OBS	0010	14	31	39	83	29	87							
OBS	0015	14	24	39	87	29	92							

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0042	03	14	1950	18	29° 07′ N	048° 28′ E	0018	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
01	20						00				2					

SUBSURFACE OBSERVATIONS														
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		↓ ΣΔD		O_2 ml/l ↓		V_f ↓		
STD	0000	16	81	38	86	28	54	0	000					
OBS	0000	16	81	38	86	28	54							
OBS	0005	15	21	39	54	29	44							
STD	0010	13	48	39	67	29	93	0	010					
OBS	0010	13	48											
OBS	0015	13	77	39	79	29	96							

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0043	03	14	1950	19	29° 07′ N	048° 40′ E	0015	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
02	20						00				2					

SUBSURFACE OBSERVATIONS														
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		↓ ΣΔD		O_2 ml/l ↓		V_f ↓		
STD	0000	14	43	38	80	29	05	0	000					
OBS	0000	14	43	38	80	29	05							
OBS	0005			39	45									
STD	0010	14	55	39	65	29	68	0	012					
OBS	0010	14	55	39	65	29	68							
OBS	0015	14	25	40	09	30	09							

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0044	03	14	1950	21	29° 13′ N	048° 51′ E	0013	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
02	20						00				2					

SUBSURFACE OBSERVATIONS														
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	16	12	39	25	29	01	0 000		
OBS	0000	16	12	39	25	29	01			
OBS	0005	15	43	39	32	29	22			
STD	0010	14	47	39	97	29	94	0 013–		
OBS	0010			39	97					
OBS	0015	13	25	39	97	30	21			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0045	03	14	1950	22	29° 18′ N	049° 02′ E	0024	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
02	23						00				2					

SUBSURFACE OBSERVATIONS														
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000			39	86					
OBS	0000	14	00*	39	86	29	96*			
OBS	0005	15	65	39	96	29	66			
STD	0010	15	71	40	20	29	84			
OBS	0010	15	71	40	20	29	84			
OBS	0015	15	40	40	36	30	03			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0046	03	14	1950	23	29° 24′ N	049° 12′ E	0031	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
03	23						00				2					

SUBSURFACE OBSERVATIONS														
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	16	33	40	37	29	82	0 000		
OBS	0000	16	33	40	37	29	82			
OBS	0005	16	33	40	41	29	85			
STD	0010	16	11	40	48	29	96	0 017–		
OBS	0015	15	89	40	52	30	04			
STD	0020	14	39	40	52	30	39	0 036–		
OBS	0020	14	39	40	52	30	39			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0047	03	15	1950	01	29° 23′ N	049° 34′ E	0026	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
02	01						00				2					

SUBSURFACE OBSERVATIONS												
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓	O_2 ml/l ↓	V_l ↓
STD	0000			40	52					
OBS	0000	14	80*	40	52	30	29*			
OBS	0005	16	33	40	52	29	93			
STD	0010	16	04	40	48	29	97			
OBS	0010	16	04	40	48	29	97			
STD	0020	15	92	40	54	30	05			
OBS	0020	15	92	40	54	30	05			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0049	03	15	1950	11	28° 20′ N	048° 40′ E	0011	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
02	09						00				0					05

SUBSURFACE OBSERVATIONS												
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓	O_2 ml/l ↓	V_l ↓
STD	0000	16	67	39	85	29	34	0 000		
OBS	0000	16	67	39	85	29	34			
STD	0010	16	62							
OBS	0010	16	62							

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0048	03	15	1950	02	29° 36′ N	049° 34′ E	0026	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
02	02						00				2					

SUBSURFACE OBSERVATIONS												
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓	O_2 ml/l ↓	V_l ↓
STD	0000	16	03	40	37	29	89	0 000		
OBS	0000	16	03	40	37	29	89			
OBS	0005	16	04	40	40	29	91			
STD	0010	15	91	40	44	29	97	0 017-		
OBS	0010	15	91	40	44	29	97			
STD	0020	14	79	40	50	30	28	0 036-		
OBS	0020	14	79	40	50	30	28			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0050	03	16	1950	04	28° 20′ N	048° 40′ E	0011	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
03	27						00				0					06

SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓		O_2 ml/l ↓		V_t ↓	
STD	0000	16	72	39	87	29	34	0	000				
OBS	0000	16	72	39	87	29	34						
STD	0010	16	81	40	03	29	44	0	012-				
OBS	0010	16	81	40	03	29	44						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0052	03	22	1950	05	28° 40′ N	048° 27′ E	0007	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
01	24						00				0					06

SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓		O_2 ml/l ↓		V_t ↓	
STD	0000	17	44	39	20	28	65	0	000				
OBS	0000	17	44	39	20	28	65						
STD	0010	10	88	39	18	30	07	0	012-				
OBS	0010	10	88	39	18	30	07						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0053	03	23	1950	04	28° 40′ N	048° 27′ E	0007	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
12	12						00				2					05

SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓		O_2 ml/l ↓		V_t ↓	
STD	0000	17	57	39	16	28	58	0	000				
OBS	0000	17	57	39	16	28	58						
STD	0010	08	32	39	21	30	55	0	014-				
OBS	0010	08	32	39	21	30	55						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0054	03	24	1950	04	28° 40′ N	048° 27′ E	0007	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
07	30						00				2					04

SUBSURFACE OBSERVATIONS												
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		↓	$\Sigma\Delta D$	O_2 ml/l ↓	V_f ↓
STD	0000	17	61	39	02	28	47	0	000		
OBS	0000	17	61	39	02	28	47				
STD	0010	17	62	38	88	28	36	0	003-		
OBS	0010	17	62	38	88	28	36				

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0055	03	25	1950	04	28° 40′ N	048° 27′ E	0007	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
03	31						00				1					05

SUBSURFACE OBSERVATIONS												
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		↓	$\Sigma\Delta D$	O_2 ml/l ↓	V_f ↓
STD	0000	18	34	38	84	28	14	0	000		
OBS	0000	18	34	38	84	28	14				
STD	0010	18	06	38	96	28	31	0	001-		
OBS	0010	18	06	38	96	28	31				

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0056	03	26	1950	07	28° 40′ N	048° 27′ E	0007	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
05	12						00				0					06

SUBSURFACE OBSERVATIONS												
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		↓	$\Sigma\Delta D$	O_2 ml/l ↓	V_f ↓
STD	0000	19	47	38	82	27	83	0	000		
OBS	0000	19	47	38	82	27	83				
STD	0010	18	34	38	95	28	23	0	001		
OBS	0010	18	34	38	95	28	23				

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0057	03	27	1950	12	28° 47′ N	048° 47′ E	0038	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMIDITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
04	34						00				2					08

SUBSURFACE OBSERVATIONS								
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000		40 35				
OBS	0000		40 35				
OBS	0005	17 89	40 48	29 52			
STD	0010		40 47				
OBS	0015	16 64	40 46	29 81			
STD	0020		40 33				
OBS	0025		40 11				

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0058	03	27	1950	13	28° 51′ N	048° 57′ E	0024	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMIDITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
04	01						00				3					10

SUBSURFACE OBSERVATIONS								
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	18 29	40 42	29 37	0 000		
OBS	0000	18 29	40 42	29 37			
OBS	0005	18 30	40 43	29 37			
STD	0010	18 13	40 44	29 43	0 012–		
OBS	0015		40 44				
STD	0020	17 23	40 39	29 61	0 025–		
OBS	0025	16 51	40 30	29 72			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0059	03	27	1950	15	28° 56′ N	049° 11′ E	0048	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMIDITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
04	01						00				3					10

SUBSURFACE OBSERVATIONS								
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	18 50	40 47	29 35	0 000		
OBS	0000	18 50	40 47	29 35			
OBS	0005	18 44	40 44	29 35			
STD	0010		40 52				
OBS	0015		40 55				
STD	0020		40 52				
OBS	0025		40 44				

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0060	03	27	1950	16	29° 00′ N	049° 24′ E	0048	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
04	01						00				3					

SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	18	44	40	39	29	31	0 000		
OBS	0000	18	44	40	39	29	31			
OBS	0005	18	44	40	44	29	35			
STD	0010	18	27	40	42	29	37	0 011-		
OBS	0015			40	41					
STD	0020	17	42	40	42	29	59	0 024-		
OBS	0025	16	74	40	43	29	77			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0061	03	27	1950	17	29° 04′ N	049° 36′ E	0044	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
04	01						00				3					

SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	18	40	40	41	29	33	0 000		
OBS	0000	18	40	40	41	29	33			
OBS	0005	18	35	40	43	29	36			
STD	0010	18	15	40	47	29	44	0 012-		
OBS	0015			40	47					
STD	0020	17	29	40	43	29	63	0 025-		
OBS	0025	16	64	40	35	29	73			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0062	03	27	1950	19	29° 09′ N	049° 47′ E	0044	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
04	01						00				3					

SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	18	52	40	55	29	41	0 000		
OBS	0000	18	52	40	55	29	41			
OBS	0005	18	55	40	65	29	48			
STD	0010	18	19	40	50	29	46	0 012-		
OBS	0015			40	44					
STD	0020	16	28	40	47	29	91	0 027-		
OBS	0025	14	73	40	60	30	37			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0063	03	27	1950	20	29° 14′ N	049° 19′ E	0037	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
04	01						00				3					

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_l ↓
STD	0000	18 55	40 52	29 38	0 000		
OBS	0000	18 55	40 52	29 38			
OBS	0005	18 55	40 43	29 31			
STD	0010		40 48				
OBS	0015		40 53				
STD	0020		39 93				
OBS	0025		38 90				

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0064	04	01	1950	05	29° 06′ N	048° 10′ E	0009	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
07	25						00				2					03

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_l ↓
STD	0000	19 02	35 25	25 23	0 000		
OBS	0000	19 02	35 25	25 23			
STD	0010	17 62	37 01	26 92	0 019		
OBS	0010	17 62	37 01	26 92			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0065	04	03	1950	05	27° 38′ N	050° 11′ E	0016	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
02	30						00				0					13

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_l ↓
STD	0000	19 56	40 64	29 20	0 000		
OBS	0000	19 56	40 64	29 20			
STD	0010	19 52	40 97	29 47	0 011-		
OBS	0010	19 52	40 97	29 47			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0066	04	04	1950	05	28° 48′ N	048° 48′ E	0027	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
01	32						00				0					08

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_l ↓
OBS	0000	18 29*	39 79*	28 89*			
OBS	0010	17 77*	38 46*	28 00*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0067	04	07	1950	12	29° 00′ N	048° 48′ E	0026	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
13	12						02				4					07

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_l ↓
STD	0000	20 13	37 59	26 72	0 000		
OBS	0000	20 13	37 59	26 72			
STD	0010	18 16	39 79	28 92	0 003		
OBS	0010	18 16	39 79	28 92			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0068	04	08	1950	04	29° 00′ N	048° 48′ E	0026	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
11	11						02				3					08

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_l ↓
STD	0000	19 85	37 80	26 95	0 000		
OBS	0000	19 85	37 80	26 95			
STD	0010	18 50	39 95	28 95	0 002		
OBS	0010	18 50	39 95	28 95			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0069	04	10	1950	04	28° 40′ N	048° 30′ E	0015	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
08	05						01				2					09

SUBSURFACE OBSERVATIONS								
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓	Σ ΔD	O_2 ml/l ↓	V_l ↓
STD	0000	19 79	38 42	27 44		0 000		
OBS	0000	19 79	38 42	27 44				
STD	0010	19 84	38 63	27 59		0 006		
OBS	0010	19 84	38 63	27 59				

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0070	04	11	1950	04	29° 35′ N	048° 45′ E	0035	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
07	09						01				1					10

SUBSURFACE OBSERVATIONS								
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓	Σ ΔD	O_2 ml/l ↓	V_l ↓
STD	0000	20 09	38 28	27 26		0 000		
OBS	0000	20 09	38 28	27 26				
STD	0010	19 03	38 69	27 85		0 005		
OBS	0010	19 03	38 69	27 85				

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0071	04	11	1950	08	29° 35′ N	048° 45′ E	0027	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
06	10						01				2					08

SUBSURFACE OBSERVATIONS								
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓	Σ ΔD	O_2 ml/l ↓	δ_{10^4} ↓
STD	0000	20 29	38 48	27 36		0 000		
OBS	0000	20 29	38 48	27 36				
STD	0010	18 64	38 63	27 91		0 005		
OBS	0010	18 64	38 63	27 91				

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0072	04	13	1950	12	28° 40′ N	048° 26′ E	0011	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
06	02						00				2		·			05

SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		↓	$\Sigma \Delta D$	O_2 ml/l ↓	V_l ↓
STD	0000	19	83	38	40	27	42	0	000		
OBS	0000	19	83	38	40	27	42				
STD	0010	19	79	38	46	27	47	0	006		
OBS	0010	19	79	38	46	27	47				

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0074	04	16	1950	09	28° 55′ N	048° 42′ E	0035	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
02	35						00				2					08

SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		↓	$\Sigma \Delta D$	O_2 ml/l ↓	V_l ↓
STD	0000	21	07	37	17	26	14	0	000		
OBS	0000	21	07	37	17	26	14				
STD	0010	19	39	37	89	27	15	0	014		
OBS	0010	19	39	37	89	27	15				

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0075	04	18	1950	05	28° 40′ N	048° 26′ E	0011	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
00							00				1					06

SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		↓	$\Sigma \Delta D$	O_2 ml/l ↓	V_l ↓
STD	0000	20	94								
OBS	0000	20	94								
STD	0010	20	81	37	88	26	76				
OBS	0010	20	81	37	88	26	76				

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0076	04	20	1950	10	29° 26′ N	047° 56′ E	0011	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
00							02				0					00

SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		↓	ΣΔD	O_2 ml/l ↓	V_l ↓		
STD	0000	22	34	37	26	25	86	0	000				
OBS	0000	22	34	37	26	25	86						
STD	0010	21	52	37	37	26	17	0	020				
OBS	0010	21	52	37	37	26	17						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00382	0077	04	21	1950	04	29° 26′ N	047° 56′ E	0011	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
04	21						00				1					01

SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		↓	ΣΔD	O_2 ml/l ↓	V_l ↓		
STD	0000	21	88	37	35	26	06	0	000				
OBS	0000	21	88	37	35	26	06						
STD	0010	21	87	37	24	25	97	0	020				
OBS	0010	21	87	37	24	25	97						

LATITUDE (N) LONGITUDE (E)	DATE TIME (GMT) 1951	DEPTH (METERS)	SALINITY °/₀₀
SHIPS: USS STALLION – USS MAURY			
26° 57′ 50° 00′	0939 9 FEBRUARY	0	40.46
26° 57′ 50° 00′	0939 9 FEBRUARY (?)	37	40.62
26° 57′ 50° 00′	0957 10 FEBRUARY	0	40.61
26° 57′ 50° 00′	0945 12 FEBRUARY	24	40.52
26° 57′ 50° 03′	. 14 FEBRUARY	38	–
26° 57′ 50° 00′	0930 15 FEBRUARY	24	40.62
26° 57′ 50° 03′	0930 17 FEBRUARY	24	40.50
26° 57′ 50° 00′	0930 18 FEBRUARY	0	40.48
26° 57′ 50° 03′	1300 18 FEBRUARY	0	40.55
27° 04′ 50° 12′	0930 20 FEBRUARY	0	40:55
26° 58′ 50° 01′	1205 21 FEBRUARY	0	40.44
29° 25′ 47° 56′	0957 23 FEBRUARY	12	39.69
29° 25′ 47° 56′	0915 27 FEBRUARY	0	39.61
26° 35.5′ 52° 32.5′	0000 22 APRIL	0	37.68
26° 11′ 54° 39′	0800 22 APRIL	0	36.67
24° 35′ 58° 06′	2000 22 APRIL	0	40.03
23° 34′ 58° 53′	0400 23 APRIL	0	40.17
18° 51′ 57° 57′	0400 24 APRIL	0	36.38
18° 10.3′ 57° 14′	1200 24 APRIL	0	36.22
16° 06′ 53° 40′	– 25 APRIL	0	36.09

Table 6: Surface and Subsurface Salinity Observations (USS STALLION and MAURY), 1951, U. S. Naval Oceanographic Office, Washington, D. C. Manuscript Data.

REFERENCE: COUNTRY CODE	REFERENCE: IDENTITY NUMBER	SHIP CODE	LATITUDE ° ′ 1/10	LONGITUDE ° ′ 1/10	QUALITY INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MONTH	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.		NODC STATION NUMBER
31	S05	MU	2657 N	05000 E		103	60	02	09	096	1951				00									0001

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS

MESSENGER TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA—T	SPECIFIC VOLUME ANOMALY—X10⁷	% Δ D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4—P µg-at/l	TOTAL—P µg-at/l	NO_2—N µg-at/l	NO_3—N µg-at/l	SiO_4—Si µg-at/l	pH
		STD	0000	1890	4046	2924	-0010529	-0000	15256							
	1	OBS	0000	189	4046	2924			15256							
		STD	0010		4050											
		STD	0020		4055											
		STD	0030		4059											
	1	OBS	0037	193	4062	2926			15275							

REFERENCE: COUNTRY CODE	REFERENCE: IDENTITY NUMBER	SHIP CODE	LATITUDE ° ′ 1/10	LONGITUDE ° ′ 1/10	QUALITY INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MONTH	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.		NODC STATION NUMBER
31	S05	MU	2657 N	05000 E		103	60	02	12	097	1951				00									0002

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS

MESSENGER TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA—T	SPECIFIC VOLUME ANOMALY—X10⁷	% Δ D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4—P µg-at/l	TOTAL—P µg-at/l	NO_2—N µg-at/l	NO_3—N µg-at/l	SiO_4—Si µg-at/l	pH
		OBS	0024	183	4052	2944			15244							

REFERENCE: COUNTRY CODE	REFERENCE: IDENTITY NUMBER	SHIP CODE	LATITUDE ° ′ 1/10	LONGITUDE ° ′ 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MONTH	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.		NODC STATION NUMBER
31	S05	MU	2657 N	05000 E		103	60	02	15	095	1951				00									0003

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS

MESSENGER TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA—T	SPECIFIC VOLUME ANOMALY—X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4—P µg-at/l	TOTAL—P µg-at/l	NO_2—N µg-at/l	NO_3—N µg-at/l	SiO_4—Si µg-at/l	pH
		OBS	0024	184	4062	2949			15248							

REFERENCE: COUNTRY CODE	REFERENCE: IDENTITY NUMBER	SHIP CODE	LATITUDE ° ′ 1/10	LONGITUDE ° ′ 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MONTH	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.		NODC STATION NUMBER
31	S05	MU	2657 N	05003 E		103	60	02	17	095	1951				00									0004

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS

MESSENGER TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA—T	SPECIFIC VOLUME ANOMALY—X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4—P µg-at/l	TOTAL—P µg-at/l	NO_2—N µg-at/l	NO_3—N µg-at/l	SiO_4—Si µg-at/l	pH
		OBS	0024	183	4050	2943			15244							

REFERENCE: COUNTRY CODE	REFERENCE: IDENTITY NUMBER	SHIP CODE	LATITUDE ° ′ 1/10	LONGITUDE ° ′ 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MONTH	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.		NODC STATION NUMBER
31	S05	MU	2925 N	04756 E		104	97	02	23	099	1951				00									0005

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS

MESSENGER TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA—T	SPECIFIC VOLUME ANOMALY—X10⁷	ΣΔD DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4—P µg-at/l	TOTAL—P µg-at/l	NO_2—N µg-at/l	NO_3—N µg-at/l	SiO_4—Si µg-at/l	pH
		OBS	0012	139	3969	2985			15099							

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0001	11	24	1951	10	28° 13′ N	049° 00′ E		00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
04	34						00			33	1					05

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_l ↓
STD	0000	23 83					
OBS	0000	23 83	40 70*	28 03*			
OBS	0010	24 57	40 68*	27 79*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0002	11	24	1951	12	28° 18′ N	049° 07′ E	0029	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
03	01						00			36	1					07

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_l ↓
STD	0000	24 72					
OBS	0000	24 72	40 71*	27 77*			
OBS	0003	24 90	40 61*	27 64*			
OBS	0008	24 82	40 64*	27 69*			
STD	0010	24 80					
STD	0020	24 80					
OBS	0020	24 80	40 53*	27 61*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0003	11	24	1951	14	28° 24′ N	049° 16′ E	0032	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
03	01						00			36	1					06

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_l ↓
STD	0000	26 39					
OBS	0000	26 39	40 59*	27 15*			
OBS	0005	26 18					
STD	0010	25 60					
OBS	0010	25 60	40 44*	27 29*			
STD	0020	25 44					
OBS	0020	25 44	40 48*	27 37*			
STD	0030	25 34					
OBS	0030	25 34	40 48*	27 40*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0004	11	24	1951	15	28° 31′ N	049° 24′ E	0043	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
03	02						00			36	1					05

	SUBSURFACE OBSERVATIONS											
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		$\Sigma \Delta D$ ↓	O_2 ml/l ↓	V_l ↓
STD	0000	24	44							
OBS	0000	24	44	40	44*	27	65*			
OBS	0005	26	41	40	28*	26	91*			
STD	0010	25	53							
OBS	0010	25	53	40	28*	27	19*			
STD	0020	25	51							
OBS	0020	25	51	40	28*	27	20*			
STD	0030	25	52							
OBS	0030	25	52	40	32*	27	22*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0005	11	24	1951	17	28° 36′ N	049° 33′ E	0037	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
03	02						00			36	1					05

	SUBSURFACE OBSERVATIONS											
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		$\Sigma \Delta D$ ↓	O_2 ml/l ↓	V_l ↓
STD	0000	23	72							
OBS	0000	23	72	40	34*	27	79*			
OBS	0005	25	11	40	17*	27	24*			
STD	0010	25	04							
OBS	0010	25	04	40	17*	27	26*			
STD	0020	25	04							
OBS	0020	25	04	40	17*	27	26*			
STD	0030	26	24							
OBS	0030	26	24	40	19*	26	90*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0006	11	24	1951	18	28° 42′ N	049° 42′ E	0040	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
05	32						00			35	1					

	SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_l ↓
STD	0000	23 89					
OBS	0000	23 89	40 30*	27 71*			
OBS	0005	24 94	40 28*	27 37*			
STD	0010	24 94					
OBS	0010	24 94	39 97*	27 14*			
STD	0020	24 96					
OBS	0020	24 96	*	*			
STD	0030	25 42					
OBS	0030	25 42	40 19*	27 16*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0007	11	24	1951	20	28° 49′ N	049° 51′ E	0040	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR..	AMT.	DIR.	AMT.		COL.	TRANS.
05	32						00			35	1					

	SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_l ↓
STD	0000	23 83					
OBS	0000	23 83	40 03*	27 52*			
OBS	0005	24 74	40 28*	27 44*			
STD	0010	24 75					
OBS	0010	24 75					
STD	0020	24 73					
OBS	0020	24 73	40 03*	27 25*			
STD	0030	24 98					
OBS	0030	24 98					

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0008	11	24	1951	21	28° 54′ N	049° 59′ E	0036	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
04	03						00			30	1					

	SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	ΣΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	22 22					
OBS	0000	22 22					
OBS	0005	24 91	40 05*	27 21*			
STD	0010	24 91					
OBS	0010	24 91	40 01*	27 18*			
STD	0020	24 93					
OBS	0020	24 93	40 14*	27 27*			
STD	0030	25 96					
OBS	0030	25 96	40 23*	27 02*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0009	11	24	1951	22	29° 01′ N	050° 09′ E	0038	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
04	35						00			35	1					

	SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	ΣΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	21 94					
OBS	0000	21 94	40 35*	28 32*			
OBS	0005	24 91	40 30*	27 40*			
STD	0010	24 92					
OBS	0010	24 92	40 21*	27 33*			
STD	0020	24 93					
OBS	0020	24 93	40 25*	27 36*			
STD	0030	25 44					
OBS	0030	25 44	40 37*	27 29*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0010	11	24	1951	02	28° 42′ N	050° 38′ E	0036	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
02	01						00			36	1					

SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		↓	ΣΔD	O_2 ml/l ↓		V_l ↓	
STD	0000	23	61										
OBS	0000	23	61	40	14*	27	67*						
OBS	0005	24	71	40	10*	27	31*						
STD	0010	24	71										
OBS	0010	24	71	40	12*	27	32*						
STD	0020	24	74										
OBS	0020	24	74	40	12*	27	32*						
STD	0030	25	03										
OBS	0030	25	03	40	08*	27	20*						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0011	11	25	1951	03	28° 35′ N	050° 30′ E	0051	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
02	22						00			36	1					

SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		↓	ΣΔD	O_2 ml/l ↓		V_l ↓	
STD	0000	24	06										
OBS	0000	24	06	40	06*	27	48*						
OBS	0005	24	76	40	06*	27	26*						
STD	0010	24	74										
OBS	0010	24	74										
STD	0020	24	73										
OBS	0020	24	73	40	03*	27	25*						
STD	0030	23	56										
OBS	0030	23	56	40	03*	27	60*						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0012	11	25	1951	05	28° 28′ N	050° 22′ E	0047	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
02	28						00			27	1					

SUBSURFACE OBSERVATIONS												
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	23	94							
OBS	0000	23	94	40	08*	27	53*			
OBS	0005	24	67	40	05*	27	28*			
STD	0010	24	66							
OBS	0010	24	66	39	99*	27	24*			
STD	0020	24	66							
OBS	0020	24	66	40	05*	27	29*			
STD	0030	25	21							
OBS	0030	25	21	40	05*	27	12*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0013	11	25	1951	06	28° 21′ N	050° 14′ E	0054	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
01	36						00			00	0					

SUBSURFACE OBSERVATIONS												
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	23	78							
OBS	0000	23	78	39	96*	27	49*			
STD	0010	24	77							
OBS	0010	24	77	40	03*	27	24*			
STD	0020	24	69							
OBS	0020	24	69	40	03*	27	26*			
STD	0030	24	74							
OBS	0030	24	74	40	01*	27	23*			
OBS	0040	24	95	40	05*	27	20*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0014	11	25	1951	07	28° 14′ N	050° 06′ E	0053	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
03	24						00			00	0					

	SUBSURFACE OBSERVATIONS											
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		↓ ΣΔD		O_2 ml/l ↓	V_f ↓	
STD	0000	24	33									
OBS	0000	24	33	39	99*	27	34*					
STD	0010	25	39									
OBS	0010	25	39	39	99*	27	02*					
STD	0020	25	38									
OBS	0020	25	38	39	92*	26	97*					
STD	0030	25	31									
OBS	0030	25	31	39	92*	26	99*					
STD	0050	25	28									
OBS	0050	25	28	39	94*	27	01*					

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0015	11	25	1951	09	28° 08′ N	049° 58′ E	0045	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
03	35						00			00	0					06

	SUBSURFACE OBSERVATIONS											
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		↓ ΣΔD		O_2 ml/l ↓	V_f ↓	
STD	0000	24	89									
OBS	0000	24	89	39	94*	27	13*					
STD	0010	25	46									
OBS	0010	25	46	39	90*	26	93*					
STD	0020	25	33									
OBS	0020	25	33	39	96*	27	01*					
STD	0030	25	35									
OBS	0030	25	35	39	92*	26	97*					
OBS	0040	26	30	40	03*	26	76*					

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0016	11	25	1951	10	28° 00′ N	049° 51′ E	0043	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
03	35						00			00	0					

SUBSURFACE OBSERVATIONS												
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		$\Sigma \Delta D$ ↓	O_2 ml/l ↓	V_l ↓
STD	0000	22	17							
OBS	0000	22	17	40	16*	28	11*			
OBS	0005	25	53	40	12*	27	07*			
STD	0010	25	49							
OBS	0010	25	49	40	06*	27	04*			
STD	0020	25	52							
OBS	0020	25	52	40	37*	27	26*			
STD	0030	26	65							
OBS	0030	26	65	40	17*	26	75*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0017	11	25	1951	11	27° 53′ N	049° 43′ E	0042	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
03	35						00			00	0					09

SUBSURFACE OBSERVATIONS												
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		$\Sigma \Delta D$ ↓	O_2 ml/l ↓	V_l ↓
STD	0000	25	28							
OBS	0000	25	28	40	08*	27	12*			
OBS	0005	25	50	40	12*	27	08*			
STD	0010	25	50							
OBS	0010	25	50	40	14*	27	09*			
STD	0020	25	50							
OBS	0020	25	50	40	06*	27	03*			
STD	0030	26	10							
OBS	0030	26	10	40	08*	26	86*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0018	11	25	1951	13	27° 48′ N	049° 34′ E	0036	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
03	35						00			00	0					08

SUBSURFACE OBSERVATIONS											
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓	O_2 ml/l ↓	V_l ↓
STD	0000	24	67							
OBS	0000	24	67	40	17*	27	37*			
OBS	0005	25	15	40	21*	27	26*			
STD	0010	25	14							
OBS	0010	25	14	40	23*	27	28*			
STD	0020	25	15							
OBS	0020	25	15	40	21*	27	26*			
STD	0030	25	67							
OBS	0030	25	67	40	50*	27	31*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0019	11	25	1951	14	27° 39′ N	049° 26′ E	0011	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
02	21						00			00	0					05

SUBSURFACE OBSERVATIONS											
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓	O_2 ml/l ↓	V_l ↓
STD	0000	24	94							
OBS	0000	24	94	40	37*	27	44*			
OBS	0005	24	17	40	43*	27	72*			
STD	0010	23	70							
OBS	0010	23	70	40	68*	28	06*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0017	02	20	1952	20	27° 53′ N	049° 43′ E	0041	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
00	00						00									

SUBSURFACE OBSERVATIONS												
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σt ↓		Σ ΔD ↓		O_2 ml/l ↓	V_f ↓	
STD	0000	18	33									
OBS	0000	18	33	40	90*	29	73*					
OBS	0005	17	80									
STD	0010	16	94									
OBS	0010	16	94	40	88*	30	06*					
STD	0020	17	59									
OBS	0020	17	59	40	88*	29	90*					
STD	0030	17	85									
OBS	0030	17	85	40	82*	29	79*					

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0016	02	20	1952	22	28° 00′ N	049° 51′ E		00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
							00									

SUBSURFACE OBSERVATIONS												
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σt ↓		Σ ΔD ↓		O_2 ml/l ↓	V_f ↓	
STD	0000	19	44									
OBS	0000	19	44	40	90*	29	44*					
OBS	0005	16	83	40	86*	30	07*					
STD	0010	16	63									
OBS	0010	16	63	40	88*	30	14*					
STD	0020	16	88									
OBS	0020	16	88									
STD	0030	17	08									
OBS	0030	17	08	40	86*	30	01*					

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0015	02	20	1952	24	28° 08′ N	049° 58′ E	0047	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
							00									

SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓		O_2 ml/l ↓		V_t ↓	
STD	0000	17	78										
OBS	0000	17	78	40	88*	29	85*						
STD	0010	16	07										
OBS	0010	16	07	40	88*	30	27*						
STD	0020	15	42										
OBS	0020	15	42	40	82*	30	38*						
STD	0030	16	12										
OBS	0030	16	12	40	84*	30	23*						
OBS	0040	16	17	40	82*	30	20*						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0014	02	21	1952	01	28° 14′ N	050° 06′ E	0047	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
00	00						01									

SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓		O_2 ml/l ↓		V_t ↓	
STD	0000	17	22										
OBS	0000	17	22	40	93*	30	03*						
STD	0010	15	88										
OBS	0010	15	88	40	82*	30	27*						
STD	0020	15	93										
OBS	0020			40	86*		*						
STD	0030	15	97										
OBS	0030	15	97	40	84*	30	27*						
OBS	0040	16	74	40	80*	30	05*						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0013	02	21	1952	02	28° 21′ N	050° 14′ E	0053	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
01	27						01									

	SUBSURFACE OBSERVATIONS												
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		ΣΔD ↓		O_2 ml/l ↓		V_f ↓	
STD	0000	17	78										
OBS	0000	17	78	40	73*	29	74*						
STD	0010	16	07										
OBS	0010	16	07	40	86*	30	26*						
STD	0020	15	62										
OBS	0020	15	62	40	84*	30	35*						
STD	0030	16	17										
OBS	0030	16	17	40	84*	30	22*						
OBS	0040	16	93	40	88*	30	07*						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0012	02	21	1952	04	28° 28′ N	050° 22′ E	0053	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
01	27						01									

	SUBSURFACE OBSERVATIONS												
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		ΣΔD ↓		O_2 ml/l ↓		V_f ↓	
STD	0000	20	00										
OBS	0000	20	00										
STD	0010	16	68										
OBS	0010	16	68	40	26*	29	65*						
STD	0020	15	81										
OBS	0020	15	81	40	55*	30	08*						
STD	0030	16	93										
OBS	0030	16	93	40	39*	29	69*						
OBS	0040	16	98	40	53*	29	78*						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0011	02	21	1952	05	28° 35′ N	050° 30′ E	0051	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
01	10						01									

SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		ΣΔD ↓		O_2 ml/l ↓		V_l ↓	
STD	0000	18	33										
OBS	0000	18	33										
STD	0010	16	16										
OBS	0010	16	16	40	23*	29	75*						
STD	0020	16	27										
OBS	0020	16	27	40	14*	29	66*						
STD	0030	16	87										
OBS	0030	16	87	40	05*	29	44*						
OBS	0040	16	92										

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0010	02	21	1952	06	28° 42′ N	050° 30′ E	0044	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.

SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		ΣΔD ↓		O_2 ml/l ↓		V_l ↓	
STD	0000	18	89										
OBS	0000	18	89	40	08*	28	95*						
STD	0010	19	34										
OBS	0010	19	34	40	55*	29	19*						
STD	0020	31	29										
OBS	0020	31	29	40	61*	25	51*						
STD	0030	21	06	•									
OBS	0030	21	06	40	41*	28	62*						
OBS	0040	19	10	40	57*	29	27*						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0009	02	21	1952	10	29° 01′ N	050° 09′ E	0042	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
06	16						00				1					

	SUBSURFACE OBSERVATIONS								
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓	O_2 ml/l ↓	V_t ↓
STD	0000	17	50							
OBS	0000	17	50	41	02*	30	03*			
OBS	0005	18	26	40	62*	29	53*			
STD	0010	18	22							
STD	0020	18	14							
OBS	0020	18	14	40	12*	29	18*			
STD	0030	18	05							
OBS	0030	18	05	40	79*	29	71*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0008	02	21	1952	12	28° 54′ N	049° 59′ E	0042	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
06	15						01				1					13

	SUBSURFACE OBSERVATIONS								
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓	O_2 ml/l ↓	V_t ↓
STD	0000	18	83							
OBS	0000	18	83	40	61*	29	37*			
OBS	0009	18	74	40	59*	29	38*			
STD	0010	18	83							
OBS	0018	18	99	41	06*	29	68*			
STD	0020	18	64							
OBS	0027	18	01	40	93*	29	83*			
STD	0030	18	02							
OBS	0036	18	55	40	80*	29	59*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0007	02	21	1952	01	28° 49′ N	049° 51′ E	0048	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
07	14						01				1					11

	SUBSURFACE OBSERVATIONS												
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓		O_2 ml/l ↓		V_l ↓	
STD	0000	18	33										
OBS	0000	18	33	40	77*	29	63*						
OBS	0008	18	10	40	62*	29	57*						
STD	0010	17	10										
OBS	0016	15	57	40	90*	30	41*						
STD	0020	16	57										
OBS	0025	17	46	40	70*	29	80*						
STD	0030	17	95										
OBS	0033	18	06	40	73*	29	67*						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0006	02	21	1952	14	28° 42′ N	049° 42′ E	0044	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
08	15						01				1					10

	SUBSURFACE OBSERVATIONS												
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓		O_2 ml/l ↓		V_l ↓	
STD	0000	17	78										
OBS	0000	17	78	40	93*	29	89*						
OBS	0009	13	90	40	88*	30	78*						
STD	0010	14	48										
OBS	0018	17	49	40	82*	29	88*						
STD	0020	17	52										
OBS	0026	17	59	40	82*	29	85*						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0005	02	21	1952	16	28° 36′ N	049° 33′ E	0045	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
10	14						02				2					09

	SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	17 61					
OBS	0000	17 61	40 86*	29 88*			
OBS	0008	17 61	40 84*	29 86*			
STD	0010	17 60					
OBS	0016		40 80*	*			
STD	0020	17 55					
OBS	0025	17 51	40 91*	29 94*			
STD	0030	17 47					
OBS	0033	17 44	40 73*	29 82*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0004	02	21	1952	17	28° 31′ N	049° 24′ E	0045	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
13	14						02				3					

	SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	17 78					
OBS	0000	17 78	40 84*	29 82*			
OBS	0008	17 11	40 82*	29 97*			
STD	0010	17 10					
OBS	0015	17 07	40 82*	29 98*			
STD	0020	17 82					
OBS	0023	18 11	40 82*	29 72*			
STD	0030	18 25					
OBS	0031	18 27	40 70*	29 59*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0001	04	09	1952	08	28° 13′ N	049° 00′ E	0011	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
02	24						01			24	1					

	SUBSURFACE OBSERVATIONS											
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		↓ ΣΔD		O_2 ml/l ↓	V_l ↓	
STD	0000	21	11									
OBS	0000	21	11	41	15*	29	17*					
OBS	0005	21	45	41	24*	29	14*					
STD	0010	21	46									
OBS	0010	21	46	41	29*	29	18*					

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH.
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0002	04	09	1952	10	28° 18′ N	049° 07′ E	0025	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
03	21						01			21	1					

	SUBSURFACE OBSERVATIONS											
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		↓ ΣΔD		O_2 ml/l ↓	V_l ↓	
STD	0000	21	39									
OBS	0000	21	39	40	90*	28	90*					
OBS	0005	21	35	40	06*	28	27*					
STD	0010	20	44									
OBS	0010	20	44	40	16*	28	60*					
STD	0020	20	04									
OBS	0020	20	04	40	97*	29	33*					

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0003	04	09	1952	11	28° 24′ N	049° 16′ E	0038	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
01	21						01			21	1					12

SUBSURFACE OBSERVATIONS												
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		$\Sigma\Delta D$ ↓	O_2 ml/l ↓	V_l ↓
STD	0000	22	78							
OBS	0000	22	78	41	35*	28	84*			
OBS	0005	19	91	41	31*	29	62*			
STD	0010	19	17							
OBS	0010	19	17	41	26*	29	78*			
STD	0020	19	17							
OBS	0020	19	17	41	27*	29	79*			
OBS	0030			41	35*		*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0004	04	09	1952	12	28° 31′ N	049° 24′ E	0043	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
01	21						00			21	1					12

SUBSURFACE OBSERVATIONS												
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		$\Sigma\Delta D$ ↓	O_2 ml/l ↓	V_l ↓
STD	0000	23	33							
OBS	0000	23	33	40	61*	28	11*			
STD	0010	19	41							
OBS	0010	19	41	40	62*	29	23*			
STD	0020	18	56							
OBS	0020	18	56	40	86*	29	64*			
STD	0030	18	48							
OBS	0030	18	48	40	97*	29	74*			
OBS	0040	17	92	41	00*	29	91*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0005	04	09	1952	14	28° 36′ N	049° 33′ E	0047	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
01	20						04			20	1					15

SUBSURFACE OBSERVATIONS									
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓	Σ Δ D	O_2 ml/l ↓	V_l ↓	
STD	0000	23 06							
OBS	0000	23 06	40 68*	28 25*					
STD	0010	18 73							
OBS	0010	18 73	40 55*	29 35*					
STD	0020	19 81							
OBS	0020	19 81	40 57*	29 08*					
STD	0030	21 94							
OBS	0030	21 94	40 61*	28 52*					

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0006	04	09	1952	15	28° 42′ N	049° 42′ E	0047	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
02	08						04			08	1					15

SUBSURFACE OBSERVATIONS									
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓	Σ Δ D	O_2 ml/l ↓	V_l ↓	
STD	0000	24 17							
OBS	0000	24 17	40 50*	27 78*					
STD	0010	18 70							
OBS	0010	18 70	40 61*	29 41*					
STD	0020	19 36							
OBS	0020	19 36	40 57*	29 20*					
STD	0030	20 24							
OBS	0030	20 24	40 77*	29 12*					
OBS	0040		40 79*	*					

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0007	04	09	1952	17	28° 49′ N	049° 51′ E	0049	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
02	08						00			08	1					16

	SUBSURFACE OBSERVATIONS											
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓		O_2 ml/l ↓	V_l ↓	
STD	0000	23	00									
OBS	0000	23	00	40	37*	28	03*					
STD	0010	20	31									
OBS	0010	20	31	40	30*	28	74*					
STD	0020	19	75									
OBS	0020	19	75	40	44*	29	00*					
STD	0030	18	61									
OBS	0030	18	61	40	73*	29	52*					
OBS	0040			40	71*		*					

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0008	04	09	1952	18	28° 54′ N	049° 59′ E		00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
01	10						01			10	1					

	SUBSURFACE OBSERVATIONS											
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓		O_2 ml/l ↓	V_l ↓	
STD	0000	21	94									
OBS	0000	21	94	40	39*	28	35*					
STD	0010	20	81									
OBS	0010	20	81	40	34*	28	63*					
STD	0020	19	53									
OBS	0020	19	53	40	46*	29	07*					
STD	0030	18	84									
OBS	0030	18	84	40	66*	29	41*					
OBS	0040	18	03	40	80*	29	73*					

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0010	04	09	1952	22	28° 42′ N	050° 38′ E	0042	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
							01									

	SUBSURFACE OBSERVATIONS											
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		$\Sigma\Delta D$ ↓	O_2 ml/l ↓	V_t ↓
STD	0000	23	33							
OBS	0000	23	33							
STD	0010	20	86							
OBS	0010	20	86	39	90*	28	28*			
STD	0020	20	16							
OBS	0020	20	16	39	96*	28	52*			
STD	0030	19	86							
OBS	0030	19	86	39	99*	28	63*			
OBS	0040	19	27	40	06*	28	84*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0009	04	09	1952	19	29° 01′ N	050° 09′ E	0047	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
01	10						01			10	1					

	SUBSURFACE OBSERVATIONS											
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		$\Sigma\Delta D$ ↓	O_2 ml/l ↓	V_t ↓
STD	0000	25	00							
OBS	0000	25	00	40	70*	27	68*			
STD	0010	20	18							
OBS	0010	20	18	40	44*	28	88*			
STD	0020	19	19							
OBS	0020	19	19	40	57*	29	25*			
STD	0030	18	86							
OBS	0030	18	86	40	59*	29	35*			
OBS	0040	18	36	40	62*	29	50*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0011	04	09	1952	23	28° 35′ N	050° 30′ E	0060	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
02	14						01			14	1					

	SUBSURFACE OBSERVATIONS												
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓		O_2 ml/l ↓		V_l ↓	
STD	0000	23	78										
OBS	0000	23	78	40	12*	27	61*						
STD	0010	20	65										
OBS	0010	20	65	40	10*	28	49*						
OBS	0019	19	85	40	35*	28	90*						
STD	0020	19	80										
STD	0030	19	30										
OBS	0038	18	91	40	39*	29	18*						
STD	0050	18	35										
OBS	0057	18	04	40	53*	29	52*						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0012	04	10	1952	01	28° 28′ N	050° 22′ E	0056	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
							00									

	SUBSURFACE OBSERVATIONS												
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓		O_2 ml/l ↓		V_l ↓	
STD	0000	23	67										
OBS	0000	23	67	40	61*	28	01*						
STD	0010	20	86										
OBS	0010	20	86	40	34*	28	62*						
OBS	0019	19	60	40	35*	28	97*						
STD	0020	19	59										
OBS	0029	19	36	40	44*	29	10*						
STD	0030	19	32										
OBS	0048	17	96	40	66*	29	64*						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0013	04	10	1952	03	28° 14′ N	050° 06′ E	0056	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
01	20						01			20	1					

SUBSURFACE OBSERVATIONS								
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_l ↓
STD	0000	22 78					
OBS	0000	22 78	40 80*	28 42*			
STD	0010	20 56					
OBS	0010	20 56	40 57*	28 88*			
STD	0020	19 10					
OBS	0020	19 10	40 80*	29 45*			
STD	0030	18 82					
OBS	0030	18 82	40 82*	29 54*			
STD	0050	16 09					
OBS	0050	16 09	40 86*	30 25*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0013	04	10	1952	02	28° 21′ N	050° 14′ E	0058	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
01	10						00									

SUBSURFACE OBSERVATIONS								
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_l ↓
STD	0000	23 06					
OBS	0000	23 06	40 52*	28 13*			
STD	0010	20 03					
OBS	0010	20 03	40 39*	28 89*			
STD	0020	19 68					
OBS	0020	19 68	40 34*	28 94*			
STD	0030	19 13					
OBS	0030	19 13	40 62*	29 30*			
STD	0050	18 30					
OBS	0050	18 30	40 95*	29 77*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0015	04	10	1952	04	28° 08′ N	049° 58′ E	0051	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
							01									

	SUBSURFACE OBSERVATIONS											
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	21	67							
OBS	0000	21	67	40	71*	28	67*			
OBS	0007	21	20	40	84*	28	91*			
STD	0010	20	46							
OBS	0017	19	30	40	97*	29	53*			
STD	0020	19	18							
OBS	0026	18	97	40	84*	29	51*			
STD	0030	18	84							
OBS	0046	18	45	40	77*	29	60*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0016	04	10	1952	06	28° 00′ N	049° 51′ E	0045	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
01	16						01			16	1					

	SUBSURFACE OBSERVATIONS											
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	21	94							
OBS	0000	21	94	40	70*	28	59*			
STD	0010	22	06							
OBS	0010	22	06	40	82*	28	65*			
STD	0020	19	66							
OBS	0020	19	66	40	88*	29	36*			
STD	0030	19	34							
OBS	0030	19	34	40	88*	29	45*			
OBS	0039	18	84	40	91*	29	60*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0017	04	10	1952	07	27° 53′ N	049° 43′ E	0043	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
01	16						01			16	1					

SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		ΣΔD ↓		O_2 ml/l ↓		V_l ↓	
OBS	0000			40	95*		*						
OBS	0009	20	53	40	95*	29	18*						
STD	0010	20	49										
OBS	0019	20	17	40	86*	29	21*						
STD	0020	20	14										
OBS	0028	19	84	40	91*	29	34*						
STD	0030	19	74										
OBS	0038	19	24	40	91*	29	50*						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00496	0018	04	10	1952	09	27° 48′ N	049° 34′ E	0042	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
02	18						01			18	1					17

SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		ΣΔD ↓		O_2 ml/l ↓		V_l ↓	
STD	0000	22	22										
OBS	0000	22	22	40	99*	28	73*						
STD	0010	20	60										
OBS	0010	20	60	40	93*	29	14*						
STD	0020	19	86										
OBS	0020	19	86	40	86*	29	29*						
STD	0030	19	76										
OBS	0030	19	76	41	15*	29	54*						
OBS	0040	19	27	41	17*	29	69*						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG1A	02	16	1960	12	27° 20′N	050° 58′E	0065	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	34		18	21 7			02	0	2	32	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 m.l/l ↓	V_f ↓
STD	0000	20 52	40 28	28 67	0 000-		
OBS	0000	20 52	40 28	28 67			
STD	0010	20 47	40 28	28 68	0 005-		
STD	0020	20 44	40 27	28 68	0 010-		
OBS	0025	20 42	40 27	28 69			
STD	0030	20 41	40 27	28 69	0 016-		
STD	0050	20 37	40 28	28 71	0 026-		
OBS	0055	20 37	40 28	28 71			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG14	02	17	1960	12	28° 59′N	050° 40′E	0021	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	30		16	23 9			02	4	8	29	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 m l/l ↓	V_f ↓
STD	0000	19 78	40 50	29 04	0 000-		
OBS	0000	19 78	40 50	29 04			
OBS	0005	19 20	40 49	29 18			
STD	0010	19 11	40 50	29 22	0 009-		
OBS	0010	19 11	40 50	29 22			
OBS	0015	19 08	40 49	29 22			
STD	0020	19 08	40 49	29 22	0 020-		
OBS	0020	19 08	40 49	29 22			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG12	02	19	1959	06	29° 14′ N	050° 21′ E	0022	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	32		19	23 9			01	6	2	32	2			7		

SUBSURFACE OBSERVATIONS																
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		ΣΔD ↓		O_2 ml/l ↓		V_f ↓	
STD	0000	18	26	40	66	29	56	0	000-				
OBS	0000	18	26	40	66	29	56						
OBS	0005	18	28	40	64	29	54						
STD	0010	18	30	40	66	29	55	0	013-				
OBS	0010	18	30	40	66	29	55						
OBS	0015	18	37	40	64	29	52						
STD	0020	18	24	40	69	29	59	0	027-				
OBS	0020	18	24	40	69	29	59						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG11	02	19	1959	19	28° 57′ N	050° 03′ E	0049	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	32		17	18 3			02		0	32	1			7		

SUBSURFACE OBSERVATIONS																
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		ΣΔD ↓		O_2 ml/l ↓		V_f ↓	
STD	0000	19	15	40	83	29	46	0	000-				
OBS	0000	19	15	40	83	29	46						
OBS	0005	19	15	40	83	29	46						
STD	0010	19	17	40	84	29	46	0	013-				
OBS	0010	19	17	40	84	29	46						
STD	0020	19	10	40	82	29	46	0	025-				
OBS	0020	19	10	40	82	29	46						
STD	0030	19	07	40	85	29	50	0	038-				
OBS	0030	19	07	40	85	29	50						
OBS	0040	19	09	40	82	29	47						
OBS	0049	19	08	40	89	29	52						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG15	02	20	1960	00	28° 44′ N	050° 40′ E	0037	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	34		16	18 9			02		0	34	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	ΣΔD ↓	O_2ml/l ↓	V_f ↓
STD	0000	19 03	40 37	29 14	0 000–		
OBS	0000	19 03	40 37	29 14			
OBS	0005	19 02	40 37	29 14			
STD	0010	19 03	40 37	29 14	0 010–		
OBS	0010	19 03	40 37	29 14			
STD	0020	18 99	40 37	29 15	0 019–		
OBS	0020	18 99	40 37	29 15			
STD	0030	18 93	40 38	29 17	0 029–		
OBS	0030	18 93	40 38	29 17			
OBS	0035	18 91	40 39	29 18			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG21	02	20	1960	08	28° 32′ N	051° 00′ E	0013	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	14		16	20 0			02	8	4	14	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	ΣΔD ↓	O_2ml/l ↓	V_f ↓
STD	0000	19 04	40 26	29 05	0 000–		
OBS	0000	19 04	40 26	29 05			
OBS	0005	19 07	40 26	29 04			
STD	0010	18 83	40 27	29 11	0 009–		
OBS	0010	18 83	40 27	29 11			
OBS	0014	18 82	40 26	29 11			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG20	02	20	1960	12	28° 07′ N	050° 50′ E	0055	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	33		13	18 3			02	8	1	33	3			7		

SUBSURFACE OBSERVATIONS									
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓	ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	19 55	40 26	28 92		0 000–		
OBS	0000	19 55	40 26	28 92				
OBS	0005	19 54	40 27	28 93				
STD	0010	19 54	40 27	28 93		0 007–		
OBS	0010	19 54	40 27	28 93				
STD	0020	19 46	40 26	28 94		0 015–		
OBS	0020	19 46	40 26	28 94				
STD	0030	19 31	40 25	28 97		0 023–		
OBS	0030	19 31	40 25	28 97				
OBS	0040	19 33	40 26	28 97				
STD	0050	19 61	40 64	29 19		0 040–		
OBS	0050	19 61	40 64	29 19				
OBS	0055	19 59	40 66	29 21				

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG24	02	20	1960	17	27° 22′ N	051° 07′ E	0058	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	30		14	18 9			02		0	30	3			7		

SUBSURFACE OBSERVATIONS									
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓	ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	20 39	39 84	28 37		0 000–		
OBS	0000	20 39	39 84	28 37				
OBS	0005	20 39	39 84	28 37				
STD	0010	20 38	39 85	28 38		0 002–		
OBS	0010	20 38	39 85	28 38				
OBS	0015	20 40	39 86	28 38				
STD	0020	20 33	40 06	28 55		0 005–		
OBS	0025	20 29	40 18	28 65				
STD	0030	20 30	40 21	28 67		0 010–		
OBS	0035	20 30	40 22	28 68				
OBS	0045	20 27	40 22	28 69				
STD	0050	20 28	40 22	28 69		0 020–		
OBS	0063	20 29	40 22	28 68				

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG23	02	22	1960	11	27° 06′ N	050° 46′ E	0055	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	16		16	21 7			02		9	16	1			7		

	SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	20 94	40 28	28 55	0 000–		
OBS	0000	20 94	40 28	28 55			
OBS	0005	20 51	40 27	28 66			
STD	0010	20 43	40 27	28 68	0 005–		
OBS	0010	20 43	40 27	28 68			
STD	0020	20 38	40 28	28 71	0 010–		
OBS	0020	20 38	40 28	28 71			
STD	0030	20 36	40 30	28 73	0 015–		
OBS	0030	20 36	40 30	28 73			
OBS	0040	20 14	40 41	28 87			
STD	0050	20 02	40 48	28 96	0 029–		
OBS	0050	20 02	40 48	28 96			
OBS	0055	20 03	40 48	28 95			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG27	02	22	1960	21	26° 54′ N	051° 41′ E	0053	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	10		15	20 0			02		0	10	1			7		

	SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	21 37	39 64	27 94	0 000		
OBS	0000	21 37	39 64	27 94			
OBS	0005	21 37	39 64	27 94			
STD	0010	21 27	39 62	27 96	0 002		
OBS	0010	21 27	39 62	27 96			
STD	0020	20 95	39 62	28 04	0 003		
OBS	0020	20 95	39 62	28 04			
STD	0030	20 77	39 79	28 22	0 003		
OBS	0030	20 77	39 79	28 22			
OBS	0040	20 69	39 79	28 25			
STD	0050	20 60	39 81	28 29	0 001		
OBS	0050	20 60	39 81	28 29			
OBS	0053	20 65	39 82	28 28			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG26	02	23	1960	00	27° 16′ N	051° 56′ E	0050	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	32		15	21 1			02		0	34	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	21 85	38 96	27 29	0 000		
OBS	0000	21 85	38 96	27 29			
OBS	0005	21 88	38 97	27 29			
STD	0010	21 72	39 10	27 43	0 007		
OBS	0010	21 72	39 10	27 43			
STD	0020	21 67	39 14	27 48	0 014		
OBS	0020	21 67	39 14	27 48			
STD	0030	22 03	39 55	27 69	0 019		
OBS	0030	22 03	39 55	27 69			
OBS	0040	22 31	39 97	27 93			
STD	0050	22 29	39 97	27 93	0 025		
OBS	0050	22 29	39 97	27 93			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG25	02	23	1960	06	27° 42′ N	051° 25′ E	0018	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	33		17	21 7			02		0	33	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	21 13	39 31	27 76	0 000		
OBS	0000	21 13	39 31	27 76			
OBS	0005	21 10	39 33	27 78			
STD	0010	20 89	39 50	27 97	0 003		
OBS	0010	20 89	39 50	27 97			
OBS	0015	20 81	39 54	28 02			
OBS	0018	20 78	39 56	28 05			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG25	02	23	1960	12	27° 42′N	051° 25′E	0018	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	28		16	21 1			02		0	28	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	22 00	39 14	27 38	0 000		
OBS	0000	22 00	39 14	27 38			
STD	0010	21 35	39 19	27 60	0 006		
OBS	0010	21 35	39 19	27 60			
OBS	0018	21 29	39 25	27 67			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG25	02	23	1960	24	27° 42′N	051° 25′E	0018	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	35		15	20 6			02		0	35	2			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	21 03	39 49	27 92	0 000		
OBS	0000	21 03	39 49	27 92			
STD	0010	21 06	39 50	27 92	0 002		
OBS	0010	21 06	39 50	27 92			
OBS	0018	21 03	39 49	27 92			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG25	02	24	1960	06	27° 42′N	051° 25′E	0018	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	32		16	19 4			05		0	31	2			5		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	21 42	39 19	27 59	0 000		
OBS	0000	21 42	39 19	27 59			
STD	0010	21 39	39 26	27 65	0 005		
OBS	0010	21 39	39 26	27 65			
OBS	0019	21 20	39 36	27 78			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG25	02	24	1960	12	27° 42′ N	051° 25′ E	0018	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	32	.	13	21 7			05		0	30	3			6		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	21 87	39 01	27 32	0 000		
OBS	0000	21 87	39 01	27 32			
STD	0010	21 60	39 06	27 44	0 007		
OBS	0010	21 60	39 06	27 44			
OBS	0018	21 53	39 09	27 48			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG25	02	24	1960	19	27° 42′ N	051° 25′ E	0018	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	34		13	20 1			05		0	31	1			5		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	21 47	39 16	27 55	0 000		
OBS	0000	21 47	39 16	27 55			
STD	0010	21 45	39 18	27 57	0 005		
OBS	0010	21 45	39 18	27 57			
OBS	0018	21 39	39 20	27 60			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG22	02	26	1960	10	27° 40′ N	050° 36′ E	0055	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	36		12	25 0			01	0	1	36	1			7		

SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	20 77	40 51	28 77	0 000-		
OBS	0000	20 77	40 51	28 77			
OBS	0005	20 40	40 51	28 88			
STD	0010	20 27	40 51	28 91	0 007-		
OBS	0010	20 27	40 51	28 91			
STD	0020	20 16	40 53	28 96	0 014-		
OBS	0020	20 16	40 53	28 96			
STD	0030	20 01	40 52	28 99	0 022-		
OBS	0030	20 01	40 52	28 99			
OBS	0040	19 96	40 54	29 02			
STD	0050	19 95	40 53	29 01	0 038-		
OBS	0050	19 95	40 53	29 01			
OBS	0055	19 96	40 52	29 00			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG19	02	26	1960	13	27° 52′ N	050° 15′ E	0058	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	35		11	23 9			02		0	31	1			7		

SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	20 86	40 62	28 83	0 000-		
OBS	0000	20 86	40 62	28 83			
OBS	0005	20 15	40 62	29 03			
STD	0010	19 75	40 64	29 15	0 008-		
OBS	0010	19 75	40 64	29 15			
STD	0020	19 42	40 69	29 28	0 018-		
OBS	0020	19 42	40 69	29 28			
STD	0030	19 29	40 72	29 34	0 029-		
OBS	0030	19 29	40 72	29 34			
OBS	0040	19 21	40 73	29 37			
STD	0050	19 20	40 74	29 38	0 052-		
OBS	0050	19 20	40 74	29 38			
OBS	0058	19 19	40 75	29 39			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG18	02	26	1960	15	28° 02′N	049° 51′E	0046	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	15		11	22 8			02		0	15	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	20 13	40 69	29 09	0 000–		
OBS	0000	20 13	40 69	29 09			
OBS	0005	20 08	40 72	29 12			
STD	0010	19 51	40 71	29 27	0 010–		
OBS	0010	19 51	40 71	29 27			
STD	0020	19 24	40 75	29 37	0 021–		
OBS	0020	19 24	40 75	29 37			
STD	0030	19 05	40 82	29 48	0 033–		
OBS	0030	19 05	40 82	29 48			
OBS	0040	18 98	41 03*	29 66*			
OBS	0045	18 98	40 94	29 59			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG17	02	27	1960	10	28° 17′N	050° 06′E	0055	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	32		15	23 9			02		0	33	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	20 26	40 55	28 95	0 000–		
OBS	0000	20 26	40 55	28 95			
OBS	0005	20 08	40 75*	29 15*			
STD	0010	19 90	40 58	29 07	0 008–		
OBS	0010	19 90	40 58	29 07			
STD	0020	19 69	40 57	29 12	0 017–		
OBS	0020	19 69	40 57	29 12			
STD	0030	19 43	40 75	29 32	0 028–		
OBS	0030	19 43	40 75	29 32			
STD	0050	18 95	40 83	29 51	0 052–		
OBS	0050	18 95	40 83	29 51			
OBS	0055	18 94	40 87	29 54			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG16	02	28	1960	00	28° 31′ N	050° 21′ E	0052	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	34		12	20 0			02		0	34	2			7		

SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	ΣΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	19 99	40 58	29 04	0 000–		
OBS	0000	19 99	40 58	29 04			
OBS	0005	20 00	40 58	29 04			
STD	0010	19 98	40 58	29 04	0 009–		
OBS	0010	19 98	40 58	29 04			
STD	0020	19 79	40 58	29 10	0 017–		
OBS	0020	19 79	40 58	29 10			
STD	0030	19 58	40 65	29 21	0 027–		
OBS	0030	19 58	40 65	29 21			
OBS	0040	19 52	40 64	29 21			
STD	0050	19 50	40 66	29 24	0 047–		
OBS	0050	19 50	40 66	29 24			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG10	02	28	1960	08	28° 44′ N	049° 42′ E	0046	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	32		13	21 7			02		0	32	2			7		

SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	ΣΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	19 60	40 88	29 38	0 000–		
OBS	0000	19 60	40 88	29 38			
OBS	0005	19 58	40 88	29 38			
STD	0010	19 51	40 88	29 40	0 012–		
OBS	0010	19 51	40 88	29 40			
STD	0020	19 37	40 88	29 44	0 024–		
OBS	0020	19 37	40 88	29 44			
STD	0030	18 75	41 00	29 69	0 038–		
OBS	0030	18 75	41 00	29 69			
OBS	0040	18 58	41 05	29 78			
OBS	0046	18 60	41 04	29 76			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG09	02	28	1960	10	28° 33′ N	049° 24′ E	0043	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	34		11	21 1			02	2	1	33	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	19 49	40 91	29 43	0 000–		
OBS	0000	19 49	40 91	29 43			
OBS	0005	19 51	40 90	29 42			
STD	0010	19 25	40 92	29 50	0 013–		
OBS	0010	19 25	40 92	29 50			
STD	0020	18 78	41 04	29 72	0 027–		
OBS	0020	18 78	41 04	29 72			
STD	0030	18 45	41 10	29 85	0 042–		
OBS	0030	18 45	41 10	29 85			
OBS	0040	18 38	41 12	29 88			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG9A	02	28	1960	13	28° 43′ N	048° 54′ E	0037	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	04		10	21 7			02	1	3	33	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	18 31	41 37	30 09	0 000–		
OBS	0000	18 31	41 37	30 09			
OBS	0005	18 21	41 36	30 11			
STD	0010	17 94	41 40	30 21	0 019–		
OBS	0010	17 94	41 40	30 21			
STD	0020	17 38	41 56	30 48	0 040–		
OBS	0020	17 38	41 56	30 48			
STD	0030	17 36	41 56	30 48	0 062–		
OBS	0030	17 36	41 56	30 48			
OBS	0036	17 34	41 55	30 48			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG08	02	28	1960	16	29° 07′ N	049° 02′ E	0034	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	14		09	20 0			02	5	2	14	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O₂ml/l ↓	V_f ↓
STD	0000	18 91	41 27	29 86	0 000–		
OBS	0000	18 91	41 27	29 86			
STD	0010	18 58	41 26	29 94	0 017–		
OBS	0010	18 58	41 26	29 94			
OBS	0015	18 32	41 29	30 03			
STD	0020	18 15	41 30	30 08	0 034–		
OBS	0025	18 05	41 30	30 11			
STD	0030	18 01	41 31	30 12	0 053–		
OBS	0030	18 01	41 31	30 12			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG01	02	29	1960	00	29° 42′ N	048° 50′ E	0017	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	16		07	18 9			02	8	1	16	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O₂ml/l ↓	V_f ↓
STD	0000	17 30	40 68	29 82	0 000–		
OBS	0000	17 30	40 68	29 82			
OBS	0008	17 32	40 89	29 98			
STD	0010	17 32	40 92	30 00	0 017–		
OBS	0016	17 33	40 96	30 03			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG01	02	29	1960	03	29° 42′N	048° 50′E	0017	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	12		06	18 9			03	8	4	15	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2ml/l ↓	V_f ↓
STD	0000	17 43	39 35	28 76	0 000-		
OBS	0000	17 43	39 35	28 76			
OBS	0007	17 23	40 55	29 74			
STD	0010	17 19	40 63	29 81	0 011-		
OBS	0015	17 19	40 77	29 92			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG01	02	29	1960	06	29° 42′N	048° 50′E	0016	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	15		08	19 4			02	4	3	14	2			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2ml/l ↓	V_f ↓
STD	0000	17 47	39 90	29 18	0 000-		
OBS	0000	17 47	39 90	29 18			
OBS	0008	17 22	40 35	29 59			
STD	0010	17 23	40 46	29 67	0 012-		
OBS	0016	17 25	40 81	29 93			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG01	02	29	1960	09	29° 42′N	048° 50′E	0016	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	16		05	21 1			02	6	2	14	2			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2ml/l ↓	V_f ↓
STD	0000	17 52	40 88	29 92	0 000-		
OBS	0000	17 52	40 88	29 92			
OBS	0008	17 44	40 93	29 98			
STD	0010	17 42	40 94	29 99	0 017-		
OBS	0016	17 38	40 97	30 02			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG01	02	29	1960	16	29° 42′N	048° 50′E	0016	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	19		06.	18 9			02	6	4	19	2			7		

SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	17 61	40 27	29 43	0 000–		
OBS	0000	17 61	40 27	29 43			
OBS	0008	17 41	40 65	29 77			
STD	0010	17 38	40 70	29 82	0 014–		
OBS	0016	17 36	40 74	29 85			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG01	02	29	1960	18	29° 42′N	048° 50′E	0016	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	31		08	19 4			02		0	35	1			7		

SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	17 60	40 07	29 28	0 000–		
OBS	0000	17 60	40 07	29 28			
OBS	0007	17 51	40 61	29 71			
STD	0010	17 47	40 75	29 83	0 013–		
OBS	0015	17 42	40 85	29 92			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG01	02	29	1960	22	29° 42′N	048° 50′E	0016	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	36		08	18 3			02		0	36	2			7		

SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	17 46	40 85	29 91	0 000–		
OBS	0000	17 46	40 85	29 91			
OBS	0007	17 55	40 99	30 00			
STD	0010	17 55	41 00	30 00	0 017–		
OBS	0015	17 54	41 01	30 01			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG01	03	01	1960	00	29° 42′ N	048° 50′ E	0016	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	32		08	18 9			02		0	33	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2ml/l ↓	V_f ↓
STD	0000	17 39	40 54	29 69	0 000-		
OBS	0000	17 39	40 54	29 69			
OBS	0007	17 41	40 90	29 96			
STD	0010	17 42	40 97	30 01	0 016-		
OBS	0015	17 44	40 97	30 01			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG01	03	01	1960	03	29° 42′ N	048° 50′ E	0016	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	05		08	18 3			03	6	2	02	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2ml/l ↓	V_f ↓
STD	0000	17 50	39 76	29 06	0 000-		
OBS	0000	17 50	39 76	29 06			
OBS	0007	17 51	39 81	29 10			
STD	0010	17 50	40 08	29 31	0 010-		
OBS	0015	17 46	40 87	29 93			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG01	03	01	1960	06	29° 42′ N	048° 50′ E	0016	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	04		09	21 1			02	6	4	04	2			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2ml/l ↓	V_f ↓
STD	0000	17 51	40 07	29 30	0 000-		
OBS	0000	17 51	40 07	29 30			
OBS	0007	17 44	40 14	29 37			
STD	0010	17 42	40 21	29 43	0 012-		
OBS	0015	17 39	40 37	29 56			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG01	03	01	1960	09	29° 42′ N	048° 50′ E	0016	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	06		09	22 8			02	4	4	03	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	ΣΔD ↓	O_2ml/l ↓	V_f ↓
STD	0000	17 72	40 80	29 81	0 000-		
OBS	0000	17 72	40 80	29 81			
OBS	0007	17 59	40 84	29 87			
STD	0010	17 55	40 87	29 90	0 016-		
OBS	0015	17 49	40 94	29 97			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG01	03	01	1960	12	29° 42′ N	048° 50′ E	0016	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	04		05	27 8			10	4	6	04	1			6		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	ΣΔD ↓	O_2ml/l ↓	V_f ↓
STD	0000	18 74	40 71	29 47	0 000-		
OBS	0000	18 74	40 71	29 47			
OBS	0007	17 63	40 81	29 84			
STD	0010	17 58	40 85	29 88	0 015-		
OBS	0015	17 50	40 93	29 96			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG01	03	01	1960	15	29° 42′ N	048° 50′ E	0016	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	03		06	22 2			02	9	7	03	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	ΣΔD ↓	O_2ml/l ↓	V_f ↓
STD	0000	17 91	40 45	29 49	0 000-		
OBS	0000	17 91	40 45	29 49			
OBS	0007	17 91	40 55	29 57			
STD	0010	17 82	40 60	29 63	0 014-		
OBS	0015	17 54	40 71	29 78			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG01	03	01	1960	17	29° 42′ N	048° 50′ E	0016	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	02		05	21 1			02	8	7	01	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	17 65	40 28	29 42	0 000–		
OBS	0000	17 65	40 28	29 42			
OBS	0007	17 46	40 55	29 68			
STD	0010	17 48	40 68	29 77	0 014–		
OBS	0015	17 52	40 91	29 94			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG8A	03	02	1960	03	29° 07′ N	048° 37′ E	0014	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	02		05	20 0			02	0	8	02	1			6		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	17 99	41 21	30 05	0 000–		
OBS	0000	17 99	41 21	30 05			
OBS	0005	18 03	41 21	30 04			
STD	0010	18 02	41 22	30 05	0 018–		
OBS	0010	18 02	41 22	30 05			
OBS	0014	18 00					

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG07	03	02	1960	06	29° 15′ N	049° 20′ E	0037	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	02		07	21 1			02	7	8	29	2			6		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	18 65	41 29	29 94	0 000-		
OBS	0000	18 65	41 29	29 94			
OBS	0005	18 64	41 29	29 95			
STD	0010	18 54	41 29	29 97	0 017-		
OBS	0010	18 54	41 29	29 97			
STD	0020	18 38	41 31	30 03	0 035-		
OBS	0020	18 38	41 31	30 03			
STD	0030	18 37	41 31	30 03	0 053-		
OBS	0030	18 37	41 31	30 03			
OBS	0037	18 38	41 31	30 03			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG06	03	02	1960	09	29° 25′ N	049° 38′ E	0034	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	03		07	23 3			02	0	9	03	2			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	18 84	41 17	29 80	0 000-		
OBS	0000	18 84	41 17	29 80			
OBS	0005	18 86	41 17	29 80			
STD	0010	18 80	41 17	29 81	0 016-		
OBS	0010	18 80	41 17	29 81			
STD	0020	18 52	41 17	29 89	0 032-		
OBS	0020	18 52	41 17	29 89			
STD	0030	18 53	41 17	29 88	0 049-		
OBS	0030	18 53	41 17	29 88			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG03	03	02	1960	12	29° 55′ N	049° 57′ E	0015	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	12		06	21 7			02	7	8	12	2			6		

SUBSURFACE OBSERVATIONS								
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	18 25	41 12	29 92	0 000–		
OBS	0000	18 25	41 12	29 92			
OBS	0005	18 27	41 14	29 93			
STD	0010	18 26	41 12	29 91	0 017–		
OBS	0010	18 26	41 12	29 91			
OBS	0015	18 24	41 13	29 93			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG02	03	02	1960	15	29° 47′ N	049° 32′ E	0012	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	15		08	19 4			02	6	8	15	2			6		

SUBSURFACE OBSERVATIONS								
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	17 69	41 20	30 12	0 000–		
OBS	0000	17 69	41 20	30 12			
OBS	0005	17 71	41 20	30 12			
STD	0010	17 69	41 20	30 12	0 019–		
OBS	0010	17 69	41 20	30 12			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG02	03	02	1960	21	29° 47′ N	049° 32′ E	0014	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	34		10	17 8			01		0	34	2			7		

SUBSURFACE OBSERVATIONS								
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	17 61	41 18	30 13	0 000–		
OBS	0000	17 61	41 18	30 13			
OBS	0005	17 65	41 18	30 12			
STD	0010	17 64	41 18	30 12	0 019–		
OBS	0010	17 64	41 18	30 12			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG02	03	03	1960	03	29° 47′ N	049° 32′ E	0014	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	30		12	17 2			02		0	34	2			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	17 53	41 19	30 15	0 000–		
OBS	0000	17 53	41 19	30 15			
OBS	0005	17 57	41 18	30 14			
STD	0010	17 56	41 18	30 14	0 019–		
OBS	0010	17 56	41 18	30 14			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG02	03	03	1960	09	29° 47′ N	049° 32′ E	0014	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	31		15	16 7			02		0	31	2			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	17 75	41 18	30 09	0 000–		
OBS	0000	17 75	41 18	30 09			
OBS	0005	17 69	41 18	30 11			
STD	0010	17 65	41 18	30 12	0 019–		
OBS	0010	17 65	41 18	30 12			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG02	03	03	1960	15	29° 47′ N	049° 32′ E	0012	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	26		14	20 0			02		0	28	1			6		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	17 73	41 19	30 10	0 000–		
OBS	0000	17 73	41 19	30 10			
OBS	0005	17 72	41 19	30 11			
STD	0010	17 64	41 18	30 12	0 019–		
OBS	0010	17 64	41 18	30 12			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG02	03	03	1960	22	29° 47′ N	049° 32′ E	0012	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	33		15	19 4			02		0	28	1			7		

SUBSURFACE OBSERVATIONS								
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	17 58	41 19	30 14	0 000-		
OBS	0000	17 58	41 19	30 14			
OBS	0005	17 63	41 18	30 12			
STD	0010	17 62	41 21	30 15	0 019-		
OBS	0010	17 62	41 21	30 15			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG02	03	04	1960	03	29° 47′ N	049° 32′ E	0013	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	36		15	18 3			02		0	35	1			7		

SUBSURFACE OBSERVATIONS								
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	17 53	41 22	30 18	0 000-		
OBS	0000	17 53	41 22	30 18			
OBS	0005	17 56	41 24	30 19			
STD	0010	17 55	41 22	30 17	0 019-		
OBS	0010	17 55	41 22	30 17			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG02	03	04	1960	09	29° 47′ N	049° 32′ E	0013	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	29		16	18 3			05		0	30	1			7		

SUBSURFACE OBSERVATIONS								
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	17 91	41 20	30 07	0 000-		
OBS	0000	17 91	41 20	30 07			
OBS	0005	17 66	41 20	30 13			
STD	0010	17 57	41 20	30 15	0 019-		
OBS	0010	17 57	41 20	30 15			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG05	03	05	1960	00	29° 37′ N	049° 53′ E	0030	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	10		14	17 8			02		0	35	1			7		

	SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	ΣΔD ↓	O_2ml/l ↓	V_f ↓
STD	0000	18 35	41 06	29 84	0 000–		
OBS	0000	18 35	41 06	29 84			
OBS	0005	18 38	41 05	29 83			
STD	0010	18 37	41 04	29 82	0 016–		
OBS	0010	18 37	41 04	29 82			
STD	0020	18 36	41 06	29 84	0 032–		
OBS	0020	18 36	41 06	29 84			
STD	0030	18 33	41 04	29 83	0 048–		
OBS	0030	18 33	41 04	29 83			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG04	03	05	1960	02	29° 44′ N	050° 12′ E	0017	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	02		14	18 3			05		0	36	1			7		

	SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	ΣΔD ↓	O_2ml/l ↓	V_f ↓
STD	0000	18 76	40 88	29 60	0 000–		
OBS	0000	18 76	40 88	29 60			
OBS	0005	18 76	40 88	29 60			
STD	0010	18 74	40 87	29 60	0 014–		
OBS	0010	18 74	40 87	29 60			
OBS	0016	18 75	40 88	29 60			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00658	PG13	03	05	1960	04	29° 33′ N	050° 25′ E	0012	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
	09		14	18 9			02	5	1	36	1			7		

	SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	ΣΔD ↓	O_2ml/l ↓	V_f ↓
STD	0000	18 98	40 76	29 45	0 000–		
OBS	0000	18 98	40 76	29 45			
OBS	0005	18 94	40 74	29 45			
STD	0010	18 94	40 75	29 45	0 012–		
OBS	0010	18 94	40 80*	29 49*			
OBS	0013	18 93	40 75	29 46			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG29	01	13	1961	16	26° 34′N	055° 48′E	0051	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
05	03		18	17 8			50	6	8	03	1			7		

SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	22 45	36 99	25 62	0 000		
OBS	0000	22 45	36 99	25 62			
STD	0010	22 44	37 01	25 64	0 024		
OBS	0010	22 44	37 01	25 64			
STD	0020	22 38	37 10	25 72	0 047		
OBS	0020	22 38	37 10	25 72			
STD	0030	22 37	37 14	25 76	0 070		
OBS	0030	22 37	37 14	25 76			
OBS	0040	22 42	37 18	25 77			
STD	0050	22 42	37 22	25 80	0 114		
OBS	0050	22 42	37 22	25 80			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG29	01	13	1961	20	26° 34′N	055° 48′E	0051	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
06	09		17	18 9			80	6	6	09	1			7		

SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	22 39	37 02	25 66	0 000		
OBS	0000	22 39	37 02	25 66			
STD	0010	22 39	37 06	25 69	0 023		
STD	0020	22 40	37 10	25 72	0 046		
OBS	0025	22 40	37 12	25 73			
STD	0030	22 38	37 14	25 75	0 069		
STD	0050	22 24	37 21	25 85	0 113		
OBS	0050	22 24	37 21	25 85			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG29	01	13	1961	23	26° 34′N	055° 48′E	0051	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
08	01		18	17 2			50	7	8	01	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	22 38	36 99	25 64	0 000		
OBS	0000	22 38	36 99	25 64			
STD	0010	22 42	37 02	25 65	0 024		
OBS	0010	22 42	37 02	25 65			
STD	0020	22 41	37 04	25 67	0 047		
OBS	0020	22 41	37 04	25 67			
STD	0030	22 38	37 13	25 75	0 070		
OBS	0030	22 38	37 13	25 75			
OBS	0040	22 34	37 14	25 77			
STD	0050	22 24	37 20	25 84	0 115		
OBS	0050	22 24	37 20	25 84			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG29	01	14	1961	02	26° 34′N	055° 48′E	0051	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
10	35		17	17 2			50	7	7	01	1			6		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	22 49	36 96	25 59	0 000		
OBS	0000	22 49	36 96	25 59			
STD	0010	22 49	36 96	25 59	0 024		
STD	0020	22 49	36 96	25 59	0 048		
OBS	0025	22 49	36 96	25 59			
STD	0030	22 45	36 99	25 62	0 072		
OBS	0049	22 16	37 17	25 84			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG29	01	14	1961	05	26° 34′N	055° 48′E	0051	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
06	04		19	17 8			01	7	6	04	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	22 78	36 87	25 43	0 000		
OBS	0000	22 78	36 87	25 43			
STD	0010	22 78	36 85	25 42	0 026		
OBS	0010	22 78	36 85	25 42			
STD	0020	22 63	36 97	25 55	0 051		
OBS	0020	22 63	36 97	25 55			
STD	0030	22 47	37 00	25 62	0 075		
OBS	0030	22 47	37 00	25 62			
OBS	0040	22 23	37 13	25 79			
STD	0050	22 24	37 11	25 77	0 121		
OBS	0050	22 24	37 11	25 77			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG29	01	14	1961	09	26° 34′N	055° 48′E	0051	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
06	06		19	23 3			01	8	5	06	2			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	22 83	36 82	25 38	0 000		
OBS	0000	22 83	36 82	25 38			
STD	0010	22 76	36 87	25 44	0 026		
STD	0020	22 66	36 93	25 51	0 051		
OBS	0025	22 60	36 96	25 55			
STD	0030	22 54	36 99	25 59	0 075		
STD	0050	22 22	37 15	25 81	0 122		
OBS	0050	22 22	37 15	25 81			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG29	01	14	1961	11	26° 34′N	055° 48′E	0051	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
05	06		18	19 4			01	4	5	06	3			7		

SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	ΣΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	22 88	36 86	25 40	0 000		
OBS	0000	22 88	36 86	25 40			
STD	0010	22 84	36 90	25 44	0 026		
OBS	0010	22 84	36 90	25 44			
STD	0020	22 52	37 00	25 61	0 050		
OBS	0020	22 52	37 00	25 61			
STD	0030	22 37	37 04	25 68	0 074		
OBS	0030	22 37	37 04	25 68			
OBS	0040	22 25	37 18	25 82			
OBS	0049	22 24	37 19	25 83			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG29	01	14	1961	14	26° 34′N	055° 48′E	0051	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
04	06		19	20 0			01	8	3	07	1			7		

SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	ΣΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	22 58	36 99	25 58	0 000		
OBS	0000	22 58	36 99	25 58			
STD	0010	22 60	36 99	25 58	0 024		
STD	0020	22 61	37 00	25 58	0 048		
OBS	0023	22 62	37 00	25 58			
STD	0030	22 57	37 03	25 62	0 072		
OBS	0049	22 30	37 20	25 82			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG29	01	14	1961	17	26° 34′N	055° 48′E	0051	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
04	04		19	19 4			02	8	3	04	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	22 44	37 00	25 63	0 000		
OBS	0000	22 44	37 00	25 63			
STD	0010	22 48	37 00	25 62	0 024		
OBS	0010	22 48	37 00	25 62			
STD	0020	22 34	37 08	25 72	0 047		
OBS	0020	22 34	37 08	25 72			
STD	0030	22 26	37 18	25 82	0 070		
OBS	0030	22 26	37 18	25 82			
OBS	0040	22 25	37 18	25 82			
OBS	0049	22 26	37 20	25 83			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG30	01	14	1961	21	26° 20′N	055° 51′E	0073	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
05	05		19	21 7			03	9	8	02	2			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	22 96	37 39	25 78	0 000		
OBS	0000	22 96	37 39	25 78			
STD	0010	22 99	37 39	25 77	0 022		
OBS	0010	22 99	37 39	25 77			
STD	0020	22 96	37 40	25 78	0 045		
OBS	0020	22 96	37 40	25 78			
STD	0030	23 00	37 40	25 77	0 067		
OBS	0030	23 00	37 40	25 77			
STD	0050	23 30	37 71	25 92	0 111		
OBS	0050	23 30	37 71	25 92			
OBS	0070	24 12	39 92	27 35			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG30	01	15	1961	00	26° 20′N	055° 51′E	0073	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
07	02		18	21 1			03		9	02	1			7		

	SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	ΣΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	22 79	37 34	25 79	0 000		
OBS	0000	22 79	37 34	25 79			
STD	0010	22 82	37 35	25 79	0 022		
STD	0020	22 86	37 35	25 78	0 044		
STD	0030	22 81	37 36	25 80	0 067		
OBS	0036	22 91	37 36	25 77			
STD	0050	23 28	38 08	26 21	0 107		
OBS	0070	24 11	39 81	27 27			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG30	01	15	1961	03	26° 20′N	055° 51′E	0073	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
05	04		19	19 4			50	6	7	04	2			6		

	SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	ΣΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	22 58	37 23	25 77	0 000		
OBS	0000	22 58	37 23	25 77			
STD	0010	22 61	37 24	25 76	0 022		
OBS	0015	22 62	37 25	25 77			
STD	0020	22 62	37 25	25 77	0 045		
STD	0030	22 61	37 24	25 76	0 067		
OBS	0030	22 61	37 24	25 76			
OBS	0040	22 62	37 24	25 76			
STD	0050	22 86	37 38	25 80	0 112		
OBS	0050	22 86	37 38	25 80			
OBS	0060	23 98	39 25	26 89			
OBS	0070	24 13	39 70	27 18			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG30	01	15	1961	06	26° 20′N	055° 51′E	0073	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
06	02		22	18 9			60	6	8	01	1			7		

	SUBSURFACE OBSERVATIONS					
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	22 55	37 21	25 76	0 000		
OBS	0000	22 55	37 21	25 76			
STD	0010	22 56	37 21	25 76	0 022		
STD	0020	22 58	37 22	25 76	0 045		
STD	0030	22 59	37 22	25 75	0 068		
OBS	0036	22 60	37 22	25 75			
STD	0050	23 05	37 98	26 20	0 109		
OBS	0069	24 04	39 69	27 20			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG30	01	15	1961	09	26° 20′N	055° 51′E	0073	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
06	03		21	21 1			02	6	8	03	1			7		

	SUBSURFACE OBSERVATIONS					
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	22 60	37 22	25 75	0 000		
OBS	0000	22 60	37 22	25 75			
STD	0010	22 61	37 22	25 75	0 023		
OBS	0015	22 61	37 22	25 75			
STD	0020	22 60	37 22	25 75	0 045		
STD	0030	22 59	37 21	25 75	0 068		
OBS	0030	22 59	37 21	25 75			
OBS	0040	22 58	37 21	25 75			
STD	0050	22 57	37 21	25 75	0 113		
OBS	0050	22 57	37 21	25 75			
OBS	0060	23 06	37 88	26 12			
OBS	0070	23 90	39 45	27 06			

SURFACE OBSERVATIONS										
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG30	01	15	1961	12	26° 20′N	055° 51′E	0073	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
06	06		20	20 0			50	4	9	06	1			6		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	22 56	37 22	25 76	0 000		
OBS	0000	22 56	37 22	25 76			
STD	0010	22 56	37 22	25 76	0 022		
STD	0020	22 57	37 23	25 77	0 045		
OBS	0029	22 57	37 23	25 77			
STD	0030	22 59	37 27	25 79	0 067		
STD	0050	23 35	38 45	26 47	0 105		
OBS	0061	24 01	39 50	27 07			

SURFACE OBSERVATIONS										
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG30	01	15	1961	15	26° 20′N	055° 51′E	0073	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
06	07		20	20 0			01	0	3	08	2			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	22 80	37 45	25 87	0 000		
OBS	0000	22 80	37 45	25 87			
STD	0010	22 81	37 39	25 82	0 022		
OBS	0019	22 82	37 36	25 79			
STD	0020	22 82	37 36	25 79	0 044		
STD	0030	22 82	37 36	25 79	0 066		
OBS	0033	22 82	37 36	25 79			
OBS	0043	22 88	37 39	25 80			
STD	0050	23 09	37 59	25 89	0 110		
OBS	0052	23 19	37 77	26 00			
OBS	0062	23 99	39 45	27 04			
OBS	0071	24 01	39 48	27 05			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG30	01	15	1961	18	26° 20′ N	055° 51′ E	0073	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
05	06		21	21 7			02	6	3	06	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	22 76	37 36	25 81	0 000		
OBS	0000	22 76	37 36	25 81			
STD	0010	22 78	37 44	25 87	0 022		
STD	0020	22 86	37 52	25 90	0 043		
STD	0030	23 00	37 48	25 83	0 065		
OBS	0036	23 11	37 65	25 93			
STD	0050	23 44	38 24	26 28	0 104		
OBS	0069	24 07	39 46	27 02			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG30	01	15	1961	21	26° 20′ N	055° 51′ E		01

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
06	03		20	20 0			02	6	3	03	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	22 53	37 25	25 79	0 000		
OBS	0000	22 53	37 25	25 79			
STD	0010	22 54	37 24	25 78	0 022		
STD	0020	22 54	37 24	25 78	0 044		
OBS	0020	22 54	37 24	25 78			
STD	0030	22 54	37 25	25 79	0 067		
OBS	0035	22 54	37 25	25 79			
OBS	0045	22 74	37 43	25 87			
STD	0050	23 49	38 58	26 52	0 104		
OBS	0055	23 95	39 34	26 96			
OBS	0065	24 02	39 70	27 22			
STD	0075	24 01	39 72	27 23	0 135		
OBS	0075	24 01	39 72	27 23			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG30	01	16	1961	00	26° 20′ N	055° 51′ E	0073	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
05	01		19	20 6			00		0	01	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	22 39	37 21	25 80	0 000		
OBS	0000	22 39	37 21	25 80			
STD	0010	22 40	37 21	25 80	0 022		
STD	0020	22 41	37 21	25 80	0 044		
STD	0030	22 41	37 21	25 80	0 066		
OBS	0036	22 42	37 21	25 80			
STD	0050	22 91	37 94	26 21	0 107		
OBS	0070	24 06	39 70	27 20			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG45	01	16	1961	06	26° 39′ N	055° 48′ E	0015	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
01	02		19	30 6			00		0	0				7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	22 31	36 85	25 55	0 000		
OBS	0000	22 31	36 85	25 55			
OBS	0005	22 30	36 85	25 56			
STD	0010	22 05	36 86	25 64	0 024		
OBS	0010	22 05	36 86	25 64			
OBS	0015	21 97	36 92	25 70			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG45	01	16	1961	09	26° 39′ N	055° 48′ E	0015	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
01	03		20	28 3			02	8	2	03	0			7		

	SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	22 72	36 81	25 41	0 000		
OBS	0000	22 72	36 81	25 41			
OBS	0005	22 71	36 82	25 42			
STD	0010	22 44	36 85	25 52	0 025		
OBS	0010	22 44	36 85	25 52			
OBS	0015	22 02	36 87	25 65			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG45	01	16	1961	12	26° 39′ N	055° 48′ E	0015	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
01	03		18	25 6			03	4	4	00	0			7		

	SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	23 16	36 82	25 29	0 000		
OBS	0000	23 16	36 82	25 29			
OBS	0005	22 77	36 82	25 40			
STD	0010	22 41	36 83	25 51	0 026		
OBS	0010	22 41	36 87*	25 54*			
OBS	0015	22 37	36 85	25 54			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG45	01	16	1961	15	26° 39′ N	055° 48′ E	0015	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
01	14		18	21 7			01		6	14	0			7		

	SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	22 85	36 85	25 40	0 000		
OBS	0000	22 85	36 85	25 40			
OBS	0005	21 81*	36 86	25 70*			
STD	0010	22 50	36 86	25 51	0 025		
OBS	0010	22 50	36 86	25 51			
OBS	0015	22 46	36 85	25 51			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG45	01	16	1961	18	26° 39′ N	055° 48′ E	0015	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
07	32		18	21 1			80	4	6					7		

	SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	22 67					
OBS	0000	22 67	37 01*	25 57*			
OBS	0005	22 60	36 85	25 47			
STD	0010	22 59	36 85	25 47			
OBS	0010	22 59	36 85	25 47			
OBS	0015	22 50	36 85	25 50			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG45	01	17	1961	01	26° 39′ N	055° 48′ E	0015	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
06	33		17	20 0			63	4	8	33	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	22 48	36 88	25 53	0 000		
OBS	0000	22 48	36 88	25 53			
OBS	0005	22 49	36 86	25 51			
STD	0010	22 50	36 85	25 50	0 025		
OBS	0010	22 50	36 85	25 50			
OBS	0015	22 50	36 84	25 49			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG45	01	17	1961	04	26° 39′ N	055° 48′ E	0015	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
02	01		18	18 9			03	6	9	01	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	22 42	36 84	25 51	0 000		
OBS	0000	22 42	36 84	25 51			
OBS	0005	22 42	36 84	25 51			
STD	0010	22 40	36 83	25 51	0 025		
OBS	0010	22 40	36 83	25 51			
OBS	0015	22 42					

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG45	01	17	1961	07	26° 39′ N	055° 48′ E	0015	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
03	02		18	18 3			02	4	5	02	1			6		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	22 66					
OBS	0000	22 66					
OBS	0005	22 69	36 84	25 44			
STD	0010	22 68	36 84	25 44			
OBS	0010	22 68	36 84	25 44			
OBS	0015	22 46	36 84	25 50			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG32	01	17	1961	07	26° 30′ N	056° 11′ E	0084	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
02	24		20	21 1			01	6	2	03	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	23 35	37 29	25 59	0 000		
OBS	0000	23 35	37 29	25 59			
STD	0010	23 78	37 98	25 98	0 022		
OBS	0010	23 78	37 98	25 98			
STD	0020	23 80	38 26	26 19	0 042		
OBS	0020	23 80	38 26	26 19			
STD	0030	23 90	38 53	26 36	0 059		
OBS	0030	23 90	38 53	26 36			
OBS	0044	24 15	39 77	27 23			
STD	0050	24 20	40 08	27 45	0 083		
OBS	0064	24 25	40 56	27 80			
STD	0075	24 22	40 64	27 87	0 094		
OBS	0084	24 16	40 70	27 93			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG31	01	17	1961	12	26° 05′ N	055° 55′ E	0048	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
04	26		18	22 2			02	8	1	26	2			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	ΣΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	23 00	37 38	25 76	0 000		
OBS	0000	23 00	37 38	25 76			
OBS	0005	22 95	37 37	25 76			
STD	0010	23 07	37 37	25 73	0 023		
OBS	0015	22 78*	37 37	25 81*			
STD	0020	23 23	37 63	25 88	0 045		
OBS	0025	23 27	37 84	26 03			
STD	0030	23 26	37 93	26 10	0 065		
OBS	0035	23 26	38 12	26 24			
OBS	0045	23 44	38 78	26 69			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG31	01	17	1961	15	26° 05′ N	055° 55′ E	0048	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
04	24		19	21 1			03		0	24	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	ΣΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	22 88	37 37	25 78	0 000		
OBS	0000	22 88	37 37	25 78			
STD	0010	22 95	37 45	25 83	0 022		
STD	0020	22 98	37 43	25 80	0 044		
OBS	0023	23 03	37 56	25 89			
STD	0030	23 19	37 98	26 16	0 064		
OBS	0043	23 62	39 21	26 96			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG31	01	17	1961	18	26° 05′ N	055° 55′ E	0048	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
04	24		20	20 0			03	8	2	00	0			7		

	SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	ΣΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	22 85	37 41	25 82	0 000		
OBS	0000	22 85	37 41	25 82			
STD	0010	22 90	37 44	25 83	0 022		
OBS	0010	22 90	37 44	25 83			
STD	0020	23 10	37 76	26 02	0 043		
OBS	0020	23 10	37 76	26 02			
STD	0030	23 24	37 94	26 11	0 062		
OBS	0030	23 24	37 94	26 11			
OBS	0045	23 67	39 34	27 05			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG31	01	17	1961	21	26° 05′ N	055° 55′ E	0048	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
02	28		19	19 4			02	8	2	00	0			7		

	SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	ΣΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	22 74	37 37	25 83	0 000		
OBS	0000	22 74	37 37	25 83			
STD	0010	22 95	37 48	25 85	0 022		
STD	0020	23 15	37 75	25 99	0 043		
OBS	0023	23 21	37 87	26 07			
STD	0030	23 34	38 20	26 28	0 062		
OBS	0044	23 60	39 11	26 89			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG31	01	18	1961	01	26° 05′ N	055° 55′ E	0048	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
04	25		19	19 4			01	6	5	25	1			7		

SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	22 74	37 39	25 84	0 000		
OBS	0000	22 74	37 39	25 84			
STD	0010	22 80	37 37	25 81	0 022		
OBS	0010	22 80	37 37	25 81			
STD	0020	22 88	37 41	25 82	0 044		
OBS	0020	22 88	37 41	25 82			
STD	0030	23 28	37 93	26 09	0 065		
OBS	0030	23 28	37 93	26 09			
OBS	0045	23 50	38 88	26 75			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG31	01	18	1961	03	26° 05′ N	055° 55′ E	0048	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
04	20		20	20 0			01	6	6	20	1			6		

SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	22 75	37 37	25 82	0 000		
OBS	0000	22 75	37 37	25 82			
STD	0010	22 80	37 39	25 82	0 022		
STD	0020	22 79	37 40	25 83	0 044		
OBS	0024	22 86	37 41	25 82			
STD	0030	23 00	37 62	25 94	0 065		
OBS	0045	23 55	38 47	26 42			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG31	01	18	1961	06	26° 05′ N	055° 55′ E	0048	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
05	20		21	20 0			03	6	6	20	1			6		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	22 79					
OBS	0000	22 79	38 48*	26 65*			
STD	0010	22 76	37 36	25 81			
OBS	0010	22 76	37 36	25 81			
STD	0020	22 73	37 36	25 82			
OBS	0020	22 73	37 36	25 82			
STD	0030	23 30	37 88	26 05			
OBS	0030	23 30	37 88	26 05			
OBS	0045	23 47	38 69	26 61			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG31	01	18	1961	09	26° 05′ N	055° 55′ E	~ 0048	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
05	21		19	21 1			02	6	4	21	1			6		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	22 80	37 33	25 78	0 000		
OBS	0000	22 80	37 33	25 78			
STD	0010	22 77	37 33	25 79	0 022		
STD	0020	22 73	37 32	25 79	0 044		
OBS	0024	22 72	37 32	25 79			
STD	0030	22 85	37 58	25 95	0 066		
OBS	0044	23 40	38 59	26 56			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG31	01	18	1961	12	26° 05′ N	055° 55′ E	0048	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
03	22		17	22 2			01	4	4	22	2			6		

SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	22 86	37 33	25 76	0 000		
OBS	0000	22 86	37 33	25 76			
STD	0010	22 78	37 34	25 79	0 022		
OBS	0010	22 78	37 34	25 79			
STD	0020	22 76	37 36	25 81	0 044		
OBS	0020	22 76	37 36	25 81			
STD	0030	23 38	38 52	26 51	0 063		
OBS	0030	23 38	38 52	26 51			
OBS	0045	23 56	39 14	26 93			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG28	01	20	1961	06	26° 17′ N	055° 30′ E	0070	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
08	05		17	22 8			02	1	6	05	3			7		

SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	23 02	36 95	25 43	0 000		
OBS	0000	23 02	36 95	25 43			
STD	0010	23 03	36 94	25 41	0 026		
OBS	0010	23 03	36 94	25 41			
OBS	0019	23 00	36 95	25 43			
STD	0020	22 97	36 99	25 47	0 051		
OBS	0029	22 82	37 34	25 78			
STD	0030	22 84	37 36	25 79	0 075		
OBS	0048	23 23	38 24	26 34			
STD	0050	23 28	38 39	26 44	0 113		
OBS	0067	23 76	40 06	27 57			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG18	01	20	1961	22	24° 50′ N	053° 28′ E	0020	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
02	10		13	20 6			02		0	00	0			6		

	SUBSURFACE OBSERVATIONS								
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓	ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	21 62	41 60	29 37		0 000-		
OBS	0000	21 62	41 60	29 37				
OBS	0005	21 64	41 50	29 29				
STD	0010	21 64	41 45	29 25		0 011-		
OBS	0010	21 64	41 45	29 25				
OBS	0015	21 56	41 82	29 55				
STD	0020	21 53	41 90	29 62		0 023-		
OBS	0020	21 53	41 90	29 62				

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG18	01	21	1961	06	24° 50′ N	053° 28′ E	0020	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
05	17		17	22 2			03	1	6	16	1			7		

	SUBSURFACE OBSERVATIONS								
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓	ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	21 52	41 94	29 66		0 000-		
OBS	0000	21 52	41 94	29 66				
OBS	0005	21 54	41 91	29 63				
STD	0010	21 51	42 07	29 76		0 015-		
OBS	0010	21 51	42 07	29 76				
OBS	0015	21 49	42 09	29 78				
STD	0020	21 50	42 08	29 77		0 030-		
OBS	0020	21 50	42 08	29 77				

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG18	01	21	1961	14	24° 50′ N	053° 28′ E	0020	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
03	09		12	26 7			00		0	09	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 m l/l ↓	V_f ↓
STD	0000	22 01	41 54	29 21	0 000-		
OBS	0000	22 01	41 54	29 21			
OBS	0005	21 78	41 57	29 30			
STD	0010	21 58	41 82	29 55	0 012-		
OBS	0010	21 58	41 82	29 55			
OBS	0015	21 52	41 95	29 66			
STD	0020	21 53	41 97	29 68	0 026-		
OBS	0020	21 53	41 97	29 68			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG18	01	21	1961	22	24° 50′ N	053° 28′ E	0020	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
03	12		12	22 2			02		0	12	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 m l/l ↓	V_f ↓
STD	0000	21 84	41 38	29 14	0 000-		
OBS	0000	21 84	41 38	29 14			
OBS	0005	20 58*	41 36	29 48*			
STD	0010	21 70	41 52	29 28	0 010-		
OBS	0010	21 70	41 52	29 28			
OBS	0015	21 57	41 84	29 57			
STD	0020	21 56	41 87	29 59	0 023-		
OBS	0020	21 56	41 87	29 59			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG01	01	25	1961	11	26° 28′ N	051° 20′ E	0027	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
10	34		20	18 9			01	1	2	34	1			7		

SUBSURFACE OBSERVATIONS								
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓	Σ ΔD	O_2 ml/l ↓	V_f ↓
STD	0000	20 18	40 55	28 97		0 000-		
OBS	0000	20 18	40 55	28 97				
OBS	0005	20 19	40 55	28 96				
STD	0010	20 14	40 55	28 98		0 008-		
OBS	0015	20 10	40 55	28 99				
STD	0020	20 07	40 57	29 01		0 016-		
OBS	0025	20 04	40 60	29 04				

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG07	01	25	1961	18	26° 52′ N	051° 48′ E	0068	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
10	33		19	18 9			03	3	6	34	4			7		

SUBSURFACE OBSERVATIONS								
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	21 38	39 68	27 97	0 000		
OBS	0000	21 38	39 68	27 97			
STD	0010	21 42	39 80	28 05	0 001		
OBS	0010	21 42	39 80	28 05			
STD	0020	21 42	39 94	28 16	0 001		
OBS	0020	21 42	39 68*	27 96*			
STD	0030	21 57	40 10	28 24	0 001		
OBS	0030	21 57	40 10	28 24			
OBS	0045	21 56	40 38	28 45			
STD	0050	21 57	40 39	28 46	0 003-		
OBS	0065	21 58	40 42	28 48			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG07	01	26	1961	06	26° 52′ N	051° 48′ E	0068	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
02	33		20	27 2			03	1	6	33	2			7		

SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓		O_2 ml/l ↓		V_f ↓	
STD	0000	21	02	39	81	28	17	0	000–				
OBS	0000	21	02	39	81	28	17						
STD	0010	21	26	39	96	28	22	0	001–				
OBS	0010	21	26	39	96	28	22						
STD	0020	21	22	40	04	28	29	0	002–				
OBS	0020	21	22	40	04	28	29						
STD	0030	21	24	40	05	28	29	0	003–				
OBS	0030	21	24	40	05	28	29						
OBS	0045	21	46	40	33	28	44						
STD	0050	21	50	40	39	28	48	0	008–				
OBS	0065	21	54	40	45	28	51						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG07	01	26	1961	18	26° 52′ N	051° 48′ E	0068	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
01	25		17	19 4			02	5	6	25	1			7		

SUBSURFACE OBSERVATIONS													
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		Σ ΔD ↓		O_2 ml/l ↓		V_f ↓	
STD	0000	21	28	39	68	28	00	0	000				
OBS	0000	21	28	39	68	28	00						
STD	0010	21	26	39	72	28	03	0	001				
OBS	0010	21	26	39	72	28	03						
STD	0020	21	24	39	92	28	19	0	001				
OBS	0020	21	24	39	92	28	19						
STD	0030	21	22	40	02	28	27	0	000				
OBS	0030	21	22	40	02	28	27						
OBS	0045	21	36	40	17	28	35						
STD	0050	21	40	40	23	28	38	0	003–				
OBS	0065	21	52	40	46	28	53						

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG03	01	27	1961	01	27° 16′ N	051° 56′ E	0051	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
01	15		15	21 1			02	6	3	15	0			7		

	SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	21 78	39 03	27 36	0 000		
OBS	0000	21 78	39 03	27 36			
STD	0010	21 82	39 05	27 37	0 007		
OBS	0010	21 82	39 05	27 37			
STD	0020	21 80	39 15	27 45	0 014		
OBS	0020	21 80	39 15	27 45			
STD	0030	21 96	39 14	27 39	0 021		
OBS	0030	21 96	39 14	27 39			
STD	0050	22 44	40 05	27 95	0 030		
OBS	0050	22 44	40 05	27 95			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG04	01	27	1961	04	27° 36′ N	052° 17′ E	0060	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
01	04		16	21 1			03	6	2	00	0			7		

	SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	21 86	39 07	27 37	0 000		
OBS	0000	21 86	39 07	27 37			
STD	0010	21 87	39 05	27 35	0 007		
OBS	0010	21 87	39 05	27 35			
STD	0020	21 89	39 06	27 35	0 015		
OBS	0020	21 89	39 06	27 35			
STD	0030	22 82	39 69	27 56	0 021		
OBS	0035	23 10	39 92	27 66			
STD	0050	23 16	40 25	27 89	0 029		
OBS	0050	23 16	40 25	27 89			
OBS	0060	22 88	40 31	28 02			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG05	01	27	1961	10	27° 17′ N	052° 40′ E	0055	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMIDITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
~~03~~	~~27~~		~~14~~	~~22 2~~			~~00~~		~~0~~	~~27~~	~~1~~			~~7~~		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 m l/l ↓	V_f ↓
STD	0000	22 22	38 56	26 88	0 000		
OBS	0000	22 22	38 56	26 88			
STD	0010	21 81	38 57	27 00	0 011		
OBS	0010	21 81	38 57	27 00			
STD	0020	21 91	38 69	27 07	0 022		
OBS	0020	21 91	38 69	27 07			
STD	0030	23 05	40 11	27 82	0 028		
OBS	0030	23 05	40 11	27 82			
OBS	0040	23 05	40 20	27 89			
STD	0050	23 03	40 21	27 90	0 034		
OBS	0055	23 02	40 22	27 91			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG05	01	27	1961	23	27° 17′ N	052° 40′ E	0055	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMIDITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
09	31		14	20 0			00		0	31	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 m l/l ↓	V_f ↓
STD	0000	21 57	38 47	26 99	0 000		
OBS	0000	21 57	38 47	26 99			
STD	0010	21 60	38 45	26 97	0 011		
OBS	0010	21 60	38 45	26 97			
STD	0020	21 90	38 68	27 06	0 021		
OBS	0020	21 90	38 68	27 06			
STD	0030	22 88	39 76	27 60	0 029		
OBS	0030	22 88	39 76	27 60			
OBS	0040	23 06	40 18	27 87			
STD	0050	23 04	40 23	27 91	0 036		
OBS	0055	22 96	40 26	27 96			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG05	01	28	1961	10	27° 17′ N	052° 40′ E	0055	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
09	30		13	19 4			02	1	5	30	2			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	21 66	38 44	26 95	0 000		
OBS	0000	21 66	38 44	26 95			
STD	0010	21 67	38 45	26 95	0 011		
OBS	0010	21 67	38 45	26 95			
STD	0020	21 98	38 85	27 17	0 021		
OBS	0020	21 98	38 85	27 17			
STD	0030	22 84	39 88	27 70	0 028		
OBS	0030	22 84	39 88	27 70			
OBS	0040	23 05	40 13	27 83			
STD	0050	22 98	40 24	27 94	0 034		
OBS	0050	22 98	40 24	27 94			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG06	01	29	1961	16	26° 55′ N	052° 21′ E	0077	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
09	31		14	19 4			03	4	7	31	3			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	21 44	39 49	27 81	0 000		
OBS	0000	21 44	39 49	27 81			
STD	0010	21 42	39 48	27 81	0 003		
OBS	0010	21 42	39 48	27 81			
STD	0020	21 47	39 53	27 83	0 006		
OBS	0020	21 47	39 53	27 83			
STD	0030	21 90	39 96	28 04	0 008		
OBS	0030	21 90	39 96	28 04			
OBS	0039	21 96	40 01	28 06			
STD	0050	21 97	40 03	28 07	0 010		
OBS	0054	21 97	40 05	28 08			
OBS	0074	22 34	40 26	28 14			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG11	01	30	1961	04	26° 22′ N	052° 28′ E	0066	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
13	33		13	18 9			03	5	6	33	2			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	21 28	39 83	28 11	0 000		
OBS	0000	21 28	39 83	28 11			
STD	0010	21 26	39 76	28 06	0 000		
OBS	0010	21 26	39 76	28 06			
STD	0020	21 29	39 76	28 06	0 001		
OBS	0020	21 29	39 76	28 06			
STD	0030	21 30	39 77	28 06	0 002		
OBS	0030	21 30	39 77	28 06			
OBS	0040	21 44	39 95	28 16			
STD	0050	21 46	40 10	28 27	0 001		
OBS	0060	21 48	40 22	28 35			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG08	01	30	1961	09	26° 02′ N	051° 56′ E	0033	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
08	31		13	20 0			03	5	3	30	2			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	20 96	40 07	28 39	0 000-		
OBS	0000	20 96	40 07	28 39			
STD	0010	20 99	40 06	28 37	0 002-		
OBS	0010	20 99	40 06	28 37			
OBS	0019	20 72	40 25	28 59			
STD	0020	20 67	40 28	28 63	0 006-		
STD	0030	19 98	40 72	29 15	0 013-		
OBS	0032	19 80	40 84	29 29			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG10	01	30	1961	13	25° 44′ N	052° 28′ E	0046	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
08	31		12	19 4			02	5	8	31	2			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	21 55	40 12	28 26	0 000–		
OBS	0000	21 55	40 12	28 26			
STD	0010	21 54	40 13	28 27	0 001–		
OBS	0010	21 54	40 13	28 27			
STD	0020	21 56	40 16	28 29	0 003–		
OBS	0020	21 56	40 16	28 29			
STD	0030	21 55	40 14	28 27	0 004–		
OBS	0035	21 54	40 12	28 26			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG09	01	31	1961	04	25° 21′ N	052° 36′ E	0029	00

WIND		ANEMO. HGT.	AIR PRESS.	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
09	33		12	19 4			02	4	6	33	4			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	20 98	40 38	28 62	0 000–		
OBS	0000	20 98	40 38	28 62			
STD	0010	21 00	40 37	28 60	0 005–		
OBS	0010	21 00	40 37	28 60			
STD	0020	21 00	40 36	28 60	0 009–		
OBS	0020	21 00	40 36	28 60			
STD	0030	21 00	40 37	28 60	0 013–		
OBS	0030	21 00	40 37	28 60			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG09	01	31	1961	14	25° 21′ N	052° 36′ E	0029	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
09	33		12	20 0			01	1	2	33	2			7		

SUBSURFACE OBSERVATIONS														
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		↓ ΣΔD		O_2 ml/l ↓		V_f ↓		
STD	0000	20	90	40	39	28	65	0	000–					
OBS	0000	20	90	40	39	28	65							
OBS	0005	20	94	40	40	28	64							
STD	0010	20	94	40	40	28	64	0	005–					
OBS	0015	20	92	40	40	28	65							
STD	0020	20	90	40	44	28	68	0	010–					
OBS	0025	20	86	40	50	28	74							

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG25	02	02	1961	11	25° 38′ N	055° 18′ E	0033	·00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
06	16		11	16 7			63	7	8	01	2			7		

SUBSURFACE OBSERVATIONS														
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		↓ ΣΔD		O_2 ml/l ↓		V_f ↓		
STD	0000	21	88	38	52	26	95	0	000					
OBS	0000	21	88	38	52	26	95							
STD	0010	21	96	38	56	26	95	0	011					
OBS	0010	21	96	38	56	26	95							
OBS	0019	22	58	40	34	28	13							
STD	0020	22	58	40	45	28	21	0	016					
OBS	0029	22	60	40	66	28	37							

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG26	02	03	1961	05	26° 03′ N	055° 09′ E	0082	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
08	29		13	22 2			03	4	5	29	4			7		

	SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2ml/l ↓	V_f ↓
STD	0000	22 32	37 66	26 17	0 000		
OBS	0000	22 32	37 66	26 17			
STD	0010	22 36	37 66	26 15	0 019		
OBS	0010	22 36	37 66	26 15			
STD	0020	22 36	37 67	26 16	0 037		
OBS	0020	22 36	37 67	26 16			
OBS	0029	22 60	37 97	26 32			
STD	0030	22 64	38 05	26 37	0 055		
OBS	0044	23 02	39 01	26 99			
STD	0050	23 14	39 27	27 15	0 081		
OBS	0054	23 17	39 47	27 29			
STD	0075	22 73	40 81	28 44	0 090		
OBS	0078	22 58	41 04	28 66			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG27	02	03	1961	09	26° 26′ N	055° 01′ E	0015	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
07	27		12	20 0			01	1	5	27	1			7		

	SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2ml/l ↓	V_f ↓
STD	0000	21 58	37 22	26 04	0 000		
OBS	0000	21 58	37 22	26 04			
OBS	0005	21 57	37 20	26 03			
STD	0010	21 10	37 21	26 17	0 019		
OBS	0010	21 10	37 21	26 17			
OBS	0015	20 60	37 20	26 30			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG22	02	06	1961	04	26° 09′ N	054° 36′ E	0088	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
08	08		18	20 5			02	8	2	08	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	21 98	38 32	26 76	0 000		
OBS	0000	21 98	38 32	26 76			
STD	0010	22 01	38 32	26 76	0 013		
OBS	0010	22 01	38 32	26 76			
STD	0020	21 98	38 32	26 76	0 026		
OBS	0020	21 98	38 32	26 76			
STD	0030	22 04	38 39	26 80	0 039		
OBS	0030	22 04	38 39	26 80			
OBS	0045	23 04	40 33	27 99			
STD	0050	23 06	40 32	27 97	0 053		
OBS	0060	23 08	40 31	27 96			
STD	0075	23 08					
OBS	0085	23 08	38 39*	26 50*			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG22	02	06	1961	14	26° 09′ N	054° 36′ E	0088	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
07	07		17	25 6			00		0	07	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	22 04	38 17	26 63	0 000		
OBS	0000	22 04	38 17	26 63			
STD	0010	22 05	38 17	26 63	0 014		
OBS	0015	22 05	38 17	26 63			
STD	0020	22 05	38 20	26 65	0 028		
OBS	0025	22 05	38 22	26 67			
STD	0030	22 52	38 97	27 10	0 040		
OBS	0035	22 84	39 54	27 44			
OBS	0045	23 06	40 16	27 85			
STD	0050	23 06	40 20	27 88	0 053		
OBS	0060	23 06	40 26	27 93			
STD	0075	23 07	40 32	27 97	0 058		
OBS	0085	23 08	40 34	27 98			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG23	02	06	1961	19	25° 41′ N	054° 43′ E		01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
08	06		18	25 6			00		0	07	3			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	21 80	39 34	27 59	0 000		
OBS	0000	21 80	39 34	27 59			
STD	0010	21 88	39 36	27 58	0 005		
OBS	0010	21 88	39 .36	27 58			
STD	0020	21 98					
OBS	0020	21 98					
STD	0030	22 10					
OBS	0030	22 10					
OBS	0039	21 74					
STD	0050	21 67					
OBS	0054	21 64					

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG24	02	06	1961	22	25° 17′ N	054° 57′ E	0024	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
06	08		18	20 6			00		0	08	3			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	20 84					
OBS	0000	20 84					
STD	0010	20 88					
OBS	0013	20 89					
STD	0020	20 90					
OBS	0023	20 90	41 44	29 45			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG20	02	07	1961	05	25° 20′ N	054° 15′ E	0035	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
07	10		19	21 7			00		0	01	2			7		

	SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	ΣΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	20 96	40 96	29 07	0 000–		
OBS	0000	20 96	40 96	29 07			
STD	0010	20 92	40 96	29 08	0 009–		
OBS	0010	20 92	40 96	29 08			
STD	0020	20 91	40 95	29 07	0 018–		
OBS	0020	20 91	40 95	29 07			
STD	0030	20 92	40 95	29 07	0 027–		
OBS	0033	20 92	40 95	29 07			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG20	02	07	1961	15	25° 20′ N	054° 15′ E	0035	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
01	13		17	25 0			00		0	0				7		

	SUBSURFACE OBSERVATIONS						
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	ΣΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	21 16	40 81	28 89	0 000–		
OBS	0000	21 16	40 81	28 89			
STD	0010	21 13	40 80	28 90	0 007–		
OBS	0010	21 13	40 80	28 90			
STD	0020	20 96	40 89	29 01	0 015–		
OBS	0020	20 96	40 89	29 01			
STD	0030	20 95	40 96	29 07	0 024–		
OBS	0033	20 95	40 98	29 08			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG20	02	08	1961	03	25° 20′ N	054° 15′ E	0035	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
03	12		17	21 1			02	4	6	00	0			7		

SUBSURFACE OBSERVATIONS														
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		↓	ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	20	95	40	73	28	89	0	000-		
OBS	0000	20	95	40	73	28	89				
STD	0010	21	02	40	80	28	93	0	007-		
OBS	0010	21	02	40	80	28	93				
STD	0020	20	98	40	92	29	03	0	015-		
OBS	0020	20	98	40	92	29	03				
STD	0030	20	93	40	99	29	10	0	024-		
OBS	0033	20	92	41	00	29	11				

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG21	02	08	1961	07	25° 50′ N	054° 10′ E	0073	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
01	15		20	25 0			01	4	6	07	1			7		

SUBSURFACE OBSERVATIONS														
	SAMPLE DEPTH (M)	T °C ↓		S ‰ ↓		σ_t ↓		↓	ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	21	65	40	03	28	16	0	000-		
OBS	0000	21	65	40	03	28	16				
STD	0010	21	59	40	04	28	19	0	000-		
OBS	0010	21	59	40	04	28	19				
STD	0020	21	57	40	05	28	20	0	001-		
OBS	0020	21	57	40	05	28	20				
STD	0030	21	52	40	05	28	21	0	002-		
OBS	0030	21	52	40	05	28	21				
OBS	0045	21	45	40	09	28	26				
STD	0050	21	48	40	11	28	27	0	003-		
OBS	0060	21	50	40	17	28	31				
OBS	0070	21	47	40	26	28	39				

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG13	02	09	1961	04	26° 53′ N	053° 26′ E	0022	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
07	30		17	18 3			21	7	8	30	2			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	21 10	38 59	27 22	0 000		
OBS	0000	21 10	38 59	27 22			
OBS	0005	21 10	38 60	27 22			
STD	0010	21 14	38 61	27 22	0 009		
OBS	0010	21 14	38 61	27 22			
OBS	0015	21 12	38 63	27 24			
STD	0020	21 03	38 74	27 35	0 017		
OBS	0020	21 03	38 74	27 35			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG13	02	10	1961	04	26° 53′ N	053° 26′ E	0022	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
03	12		15	20 0			00		0	12	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	Σ ΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	20 98	38 74	27 36	0 000		
OBS	0000	20 98	38 74	27 36			
OBS	0005	20 98	38 74	27 36			
STD	0010	20 99	38 76	27 38	0 007		
OBS	0010	20 99	38 76	27 38			
OBS	0015	21 02	38 75	27 36			
STD	0020	21 00	38 76	27 37	0 014		
OBS	0020	21 00	38 76	27 37			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG13	02	11	1961	04	26° 53′ N	053° 26′ E	0022	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
02	35		17	17 8			02	5	4	00	0			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	ΣΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	21 14	38 74	27 32	0 000		
OBS	0000	21 14	38 74	27 32			
OBS	0005	21 14	38 75	27 33			
STD	0010	21 13	38 75	27 33	0 008		
OBS	0010	21 13	38 75	27 33			
OBS	0015	21 10	38 74	27 33			
STD	0020	21 06	38 77	27 37	0 015		
OBS	0020	21 06	38 77	27 37			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG13	02	12	1961	04	26° 53′ N	053° 26′ E	0022	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
05	32		18	20 6			00		0	32	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	ΣΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	21 18	38 72	27 29	0 000		
OBS	0000	21 18	38 72	27 29			
OBS	0005	21 18	38 70	27 28			
STD	0010	21 20	38 72	27 29	0 008		
OBS	0010	21 20	38 72	27 29			
OBS	0015	21 18	38 73	27 30			
STD	0020	21 16	38 75	27 32	0 016		
OBS	0020	21 16	38 75	27 32			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG12	02	12	1961	13	26° 51′ N	053° 00′ E	0080	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
06	30		15	23 3			02		0	30	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	ΣΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	21 54	38 77	27 23	0 000		
OBS	0000	21 54	38 77	27 23			
STD	0010	21 50	38 77	27 24	0 008		
OBS	0010	21 50	38 77	27 24			
STD	0020	21 35	38 77	27 28	0 017		
OBS	0020	21 35	38 77	27 28			
STD	0030	21 46	38 93	27 38	0 024		
OBS	0030	21 46	38 93	27 38			
OBS	0045	21 73	39 45	27 70			
STD	0050	22 17	39 71	27 77	0 035		
OBS	0059	22 70	40 02	27 85			
STD	0075	22 68	40 03	27 86	0 043		
OBS	0079	22 68	40 03	27 86			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG14	02	16	1961	00	26° 39′ N	053° 28′ E	0086	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
10	32		12	21 1			00		0	32	2			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	ΣΔD ↓	O_2 ml/l ↓	V_f ↓
STD	0000	21 61	38 52	27 02	0 000		
OBS	0000	21 61	38 52	27 02			
OBS	0009	21 57	38 55	27 06			
STD	0010	21 58	38 58	27 08	0 010		
OBS	0018	21 64	38 76	27 20			
STD	0020	21 64	38 79	27 22	0 020		
OBS	0027	21 63	38 92	27 32			
STD	0030	21 57	39 09	27 47	0 027		
OBS	0045	21 55	38 52*	27 04*			
STD	0050	21 76	39 90	28 03	0 035		
OBS	0068	22 39	40 19	28 07			
STD	0075	22 59	40 19	28 01	0 038		
OBS	0077	22 64	40 18	27 99			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG15	02	16	1961	04	26° 11′ N	053° 28′ E	0080	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
10	32		14	20 0			00		0	32	3			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	21 82	38 79	27 17	0 000		
OBS	0000	21 82	38 79	27 17			
STD	0010	21 88	38 85	27 20	0 009		
OBS	0010	21 88	38 85	27 20			
OBS	0019	21 94	39 56	27 72			
STD	0020	21 95	39 58	27 73	0 015		
OBS	0029	22 06	39 75	27 83			
STD	0030	22 09	39 76	27 83	0 019		
OBS	0043	22 22	39 90	27 90			
STD	0050	21 83	39 92	28 03	0 023		
OBS	0068	21 26	39 98	28 23			
STD	0075	21 20	40 00	28 26	0 023		
OBS	0077	21 20	40 01	28 27			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG16	02	16	1961	07	25° 49′ N	053° 25′ E	0062	01

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMID-ITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
09	31		16	22 8			00		0	31	3			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2 ml/l ↓	V_f ↓
STD	0000	21 70	39 70	27 89	0 000		
OBS	0000	21 70	39 70	27 89			
STD	0010	21 66	39 70	27 91	0 002		
OBS	0010	21 66	39 70	27 91			
STD	0020	21 66	39 70	27 91	0 004		
OBS	0020	21 66	39 70	27 91			
STD	0030	21 62	39 72	27 93	0 006		
OBS	0030	21 62	39 72	27 93			
OBS	0040	21 32	39 95	28 19			
STD	0050	21 06	40 09	28 37	0 006		
OBS	0050	21 06	40 09	28 37			
OBS	0060	21 04	40 10	28 39			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG17	02	16	1961	18	25° 19′ N	053° 25′ E	0037	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMIDITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
04	31		14	19 4			00		0	31	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2ml/l ↓	V_f ↓
STD	0000	20 88	40 42	28 67	0 000–		
OBS	0000	20 88	40 42	28 67			
OBS	0005	20 88	40 42	28 67			
STD	0010	20 90	40 42	28 67	0 005–		
OBS	0015	20 91	40 42	28 67			
STD	0020	20 89	40 45	28 69	0 010–		
OBS	0025	20 87	40 46	28 71			
STD	0030	20 86	40 46	28 71	0 016–		
OBS	0035	20 86	40 46	28 71			

SURFACE OBSERVATIONS									
NODC REF. NO.	STATION	DATE				POSITION		SONIC DEPTH UNCORRECTED	MAX. SAMPLE DEPTH
		MO.	DAY	YEAR	HOUR	LATITUDE	LONGITUDE		
00865	PG18	02	16	1961	20	25° 07′ N	053° 27′ E	0026	00

WIND		ANEMO. HGT.	AIR PRESS	AIR TEMPERATURE		HUMIDITY	WEATHER	CLOUD		SEA		SWELL		VIS.	WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
04	30		15	19 4			00		0	30	1			7		

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ_t ↓	↓ ΣΔD	O_2ml/l ↓	V_f ↓
STD	0000	20 74					
OBS	0000	20 74	37 33*	26 36*			
OBS	0009	20 76	40 57	28 82			
STD	0010	20 69	40 67	28 92			
OBS	0014	20 53	40 93	29 16			
OBS	0019	20 54	40 96	29 18			
STD	0020	20 54	40 96	29 18			
OBS	0023	20 52	40 96	29 19			

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