G-4

**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

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Assemblage of this material, with an analysis of recent unpublished (post 1950) temperature and salinity data, was by: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

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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 occurring 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 31804). 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 31805 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 occurring 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:

<u>WATER BODY</u>	<u>AREA*</u> (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.

SECTION I

LOCATION CHARTS

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SECTION II

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Figure 11- 5. Persian Gulf—Salinity ($^{\circ}/_{\text{oo}}$)—surface, Jan., Feb., Mar.

Figure 11- 6. Persian Gulf—Salinity (‰)—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 (Coriolis 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)"

SECTION III

BLEGVAD'S ANALYSIS

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.

SECTION IV

EMERY'S ANALYSIS

Figure IV- 2. Persian Gulf—Salinity ($^{\circ}$ / $_{\circ}$)—surface, Aug.

Figure IV-3 Persian Gulf Temperature ($^{\circ}\text{F}$) and Salinity (‰) 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%, occurred 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.

SECTION V

DUBACH'S AND WEHE'S ANALYSIS

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

Figure V. 3. Kuwait Harbor—Salinity ($^{\circ}/\text{o}$)—surface, Feb.

Figure V. 4. Kuwait Harbor—Salinity (‰)—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."

SECTION VI

RECENT DATA ANALYSIS

Figure VI- 1. Northern Part, Persian Gulf—Temperature (°C)—
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Figure VI- 2. Northern Part, Persian Gulf—Temperature (°C)—
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Figure VI- 3. Northern Part, Persian Gulf—Temperature ($^{\circ}\text{C}$)—
20 meters, Feb. 1952, Mar. 1950

Figure VI- 4. Northern Part, Persian Gulf—Temperature (°C)—
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Figure VI- 6. Northern Part, Persian Gulf—Salinity (‰)—
10 meters, Feb. 1952, Mar. 1950

Figure VI- 7. Northern Part, Persian Gulf—Salinity (‰)—
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Figure VI- 9. Northern Part, Persian Gulf—Temperature (°C)—
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Figure VI-13. Northern Part, Persian Gulf—Salinity (‰)—
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Figure VI-27. Northern Part, Persian Gulf—Temperature (°C)—
20 meters, Nov. 1951

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30 meters, Nov. 1951

Figure VI-29. Northern Part, Persian Gulf—Salinity (‰)—
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Figure VI-30. Northern Part, Persian Gulf—Salinity (‰)—
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APPENDIX A

HISTORICAL DATA (PRE-1950)

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- 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 ‰
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

<div style="text-align: center;"> <div>LOCATION</div> <div>MONTH</div> </div>	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 ‰
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		49° 54'	29.0	39.96
25		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 ‰
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	SHIP	LATITUDE	LONGITUDE	MARKSDEN	STATION TIME	YEAR	ORIGINATOR'S	DEPTH	MAX	WAVE	WEATHER	CLOUD	NODC
COUNTRY	IDENTITY			SQUARE	(GMT)		CRUISE	TO	DEPTH	OBSERVATIONS	CODE	CODES	STATION
CODE	NUMBER						NUMBER	BOTTOM	OF				NUMBER
31	S04	CP	2523 N	051415E	103 51 08 17 040	1948		0007	00				0001
				WATER	WIND								
				CLOR	TRAIL	DIR	SPEED	BAROMETER	AIR TEMP. °C		WIS	ADD'L	SPECIAL
				CODE	(m)		OF	(mba)	DRY BULB		WET BULB	DES.	OBSERVATIONS

MESSINGER	CARD	CARD	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME	WAD	SOUND	O ₂ ml/l	PO ₂ -P	TOTAL-P	NO ₃ -N	NO ₃ -N	SiO ₂ -Si	pH
HR	NO.	TYPE					ANOMALY-X10 ³	DYN. M. X 10 ³	VELOCITY		μg-at/l	μg-at/l	μg-at/l	μg-at/l	μg-at/l	
1	STD	0000	3390	4090	2478	0031803	0000	15595								
2	OBS	0000	339	4090	2478			15596								
2	OBS	0007	350 P	4021P	2384Q											

REFERENCE	SHIP	LATITUDE	LONGITUDE	MARKSDEN	STATION TIME	YEAR	ORIGINATOR'S	DEPTH	MAX	WAVE	WEATHER	CLOUD	NODC
COUNTRY	IDENTITY			SQUARE	(GMT)		CRUISE	TO	DEPTH	OBSERVATIONS	CODE	CODES	STATION
CODE	NUMBER						NUMBER	BOTTOM	OF				NUMBER
31	S04	CP	26055N	05124 E	103 61 08 20 055	1948		0007	00				0002
				WATER	WIND								
				CLOR	TRAIL	DIR	SPEED	BAROMETER	AIR TEMP. °C		WIS	ADD'L	SPECIAL
				CODE	(m)		OF	(mba)	DRY BULB		WET BULB	DES.	OBSERVATIONS

MESSINGER	CARD	CARD	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME	WAD	SOUND	O ₂ ml/l	PO ₂ -P	TOTAL-P	NO ₃ -N	NO ₃ -N	SiO ₂ -Si	pH
HR	NO.	TYPE					ANOMALY-X10 ³	DYN. M. X 10 ³	VELOCITY		μg-at/l	μg-at/l	μg-at/l	μg-at/l	μg-at/l	
	OBS	0007	339	4095	2481				15598							

REFERENCE	SHIP	LATITUDE	LONGITUDE	MARKSDEN	STATION TIME	YEAR	ORIGINATOR'S	DEPTH	MAX	WAVE	WEATHER	CLOUD	NODC
COUNTRY	IDENTITY			SQUARE	(GMT)		CRUISE	TO	DEPTH	OBSERVATIONS	CODE	CODES	STATION
CODE	NUMBER						NUMBER	BOTTOM	OF				NUMBER
31	S04	CP	2616 N	05033 E	103 60 08 26 118	1948		0015	00				0003
				WATER	WIND								
				CLOR	TRAIL	DIR	SPEED	BAROMETER	AIR TEMP. °C		WIS	ADD'L	SPECIAL
				CODE	(m)		OF	(mba)	DRY BULB		WET BULB	DES.	OBSERVATIONS

MESSINGER	CARD	CARD	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME	WAD	SOUND	O ₂ ml/l	PO ₂ -P	TOTAL-P	NO ₃ -N	NO ₃ -N	SiO ₂ -Si	pH
HR	NO.	TYPE					ANOMALY-X10 ³	DYN. M. X 10 ³	VELOCITY		μg-at/l	μg-at/l	μg-at/l	μg-at/l	μg-at/l	
1	STD	0000	3440	4241	2572	0022777	0000	15621								
1	OBS	0000	344	4241	2572			15621								
2	STD	0010	3440													
2	OBS	0015	344	4318	2631			15631								

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	DEPTH	MANSEIN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH SAMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	NODC STATION NUMBER				
COUNTRY	IDENTITY		° ' 1/10	° ' 1/10	10" 1"	10" 1"	MONTH	DAY	HR	1/10	CRUISE NUMBER	STATION NUMBER			DIR	PER	PER	SEA	AMT.	TYPE					
31	504	CP	25510N	052010E	103	52	08	16	240	1948				00							0004				
WATER						WIND				AIR TEMP °C		VIS		SPECIAL OBSERVATIONS											
COLOR						TRANSP (m)		DIR	SPEED OF WIND	BAROMETER (mb)	DRY BULB	WET BULB	ADD'L OBS												
06																									
WISSENER TIME	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10 ³				W & D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P µg-at/l	TOTAL-P µg-at/l	NO ₂ -N µg-at/l	NO ₃ -N µg-at/l	SiO ₂ -Si µg-at/l	pH						
1	STD		0000	3400	3994	2402	0039038				0000	15588													
1	OBS		0000	340	3994	2402						15588													
1	OBS		0006		4021																				

REFERENCE	SHIP	LATITUDE	LONGITUDE	MARSDEN	STATION TIME	YEAR	ORIGINATOR'S		DEPTH	MAX. DEPTH	WAVE			WEATHER	CLOUD	NODC
(COUNTRY	CODE	° ' 1/10	° ' 1/10	SQUARE	(GMT)		CRUISE	STATION	TO	OF	DIR	PER	SEA	CODE	TYPE	STATION
31	504	CP	26055N	051240E	103 61 08 20	055 1948			0007	00						0005
				WATER	WIND	AIR TEMP °C										
(COLOR	TRANS	DIR	SPEED	BAROMETER			DRY BULB	WET BULB	VIS	ADD'L	SPECIAL					
CODE	(m)		OR FORCE	(mbars)					COND	DET	OBSERVATIONS					
				09												
MESSIDEN	CAS	CARD	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME	W & D	SOUND	O ₂ ml/l	PO ₂ -P	TOTAL-P	NO ₂ -N	NO ₃ -N	SiO ₂ -Si	pH
TIME	NO.	TYPE					ANOMALY - X 10 ³	DYN. M. X 10 ³	VELOCITY		µg-at/l	µg-at/l	µg-at/l	µg-at/l	µg-at/l	
1	STD		0000	3390												
1	OBS		0000	339												
1	OBS		0006		4095											

REFERENCE		SHIP	LATITUDE	LONGITUDE	DATE	STATION TIME		YEAR	ORIGINATOR'S		DEPTH	MAX	WAVE			WEATHER	CLOUD	NODC					
COUNTRY	IDENTITY	CODE	° ' 1/10	° ' 1/10	10" 1"	MONTH	DAY	HR 1/10	CRUISE	STATION	TO	DEPTH	SAMPLES	DIR	HGT	PER	SEA	TYPE	STATION				
31	504	MY	2313 N	059380E	103	39	08	15	130	1948		3274	01						0006				
WATER		WIND		AIR TEMP. °C		SPECIFIC VOLUME		W & D		SOUND		PO ₂		TOTAL		NO ₂		NO ₃		SiO ₂		pH	
COLOR	TRANS	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS	ADD'L	SPECIAL														
CODE	IN	IN	OR	(mb)	°C	°C	CM	CM	OBSERVATIONS														
32																							
WATER	CAS	CARD	DEPTH	T	S	SIGMA-T	SPECIFIC VOLUME	W & D	SOUND	PO ₂	TOTAL	NO ₂	NO ₃	SiO ₂	pH								
CODE	NO.	TYPE	(m)	°C	%	-T	ANOMALY - X10 ³	DYN. M. X 10 ³	VELOCITY	O ₂ ml/l	-P	-P	-N	-N	-Si								
1	STD		0000	3230	3694	2239	0054561	0000	15525														
1	OBS		0000	323	3694	2239			15525														
1	STD		0010	3156	3697	2268	0051855	0053	15512														
1	STD		0020	3010	3700	2321	0046799	0103	15485														
1	OBS		0020	301	3700	2321			15485														
1	STD		0030	2661	3662	2408	0038527	0145	15408														
1	STD		0050	2140	3608	2522	0027723	0211	15279														
1	OBS		0050	214	3608	2522			15279														
1	STD		0075	2005	3604	2556	0024619	0277	15247														
1	STD		0100	1870	3600	2588	0021655	0335	15213														
1	OBS		0100	187	3600	2588			15213														

IDENTITY	REFERENCE	SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	MARKEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
						10°	1'	10"		CRUISE NUMBER	STATION NUMBER			DIR	HT	PER		SEA	TYPE	
31	S04	MY	25340N	057045E	103	57	0818	06	1948			0205	02							0007

31	S04	MY	25340N	057045E	103 57	08	16	030	1948			0205	02								0007
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WATER	COLOR CODE	TEMP (°C)	WIND DIR	SPEED OF FORCE	BAROMETER (mba)	AIR TEMP. °C		VIS. CODE	ADD'L OBS	SPECIAL OBSERVATIONS
						DRY BULB	WET BULB			

WATER	TEMP (°C)	WIND DIR	SPEED OF FORCE	BAROMETER (mba)	AIR TEMP. °C	DRY BULB	WET BULB	VIS. CODE	ADD'L OBS	SPECIAL OBSERVATIONS
23										

WATER	TEMP (°C)	WIND DIR	SPEED OF FORCE	BAROMETER (mba)	AIR TEMP. °C	DRY BULB	WET BULB	VIS. CODE	ADD'L OBS	SPECIAL OBSERVATIONS
23										

COUNTY	COUNTRY	SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	MARKEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
						10°	1'	10"		CRUISE NUMBER	STATION NUMBER			DIR	HT	PER		SEA	TYPE	
31	SO4	MY	26045 N	056470 E	103 66	08	16	105	1948			0080	01							0008

31	S04	MY	26045N	056470E	103 66	08	16	105	1948			0080	01								0008
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WATER	TEMP (°C)	WIND DIR	SPEED OF FORCE	BAROMETER (mba)	AIR TEMP. °C	DRY BULB	WET BULB	VIS. CODE	ADD'L OBS	SPECIAL OBSERVATIONS
23										

WATER	TEMP (°C)	WIND DIR	SPEED OF FORCE	BAROMETER (mba)	AIR TEMP. °C	DRY BULB	WET BULB	VIS. CODE	ADD'L OBS	SPECIAL OBSERVATIONS
23										

COUNTRY CODE	REFERENCE	SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	MARKEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
						10°	1'	10"		CRUISE NUMBER	STATION NUMBER			DIR	HT	PER		SEA	TYPE	
31	504	MY	21615N	056340E	103	66	103	66	140	1948		0223	01							0009

31	S04	MY	26165N	056340E	103 66	08	16	140	1948			0123	01								0009
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WATER	TEMP (°C)	WIND DIR	SPEED OF FORCE	BAROMETER (mba)	AIR TEMP. °C	DRY BULB	WET BULB	VIS. CODE	ADD'L OBS	SPECIAL OBSERVATIONS
21										

WATER	TEMP (°C)	WIND DIR	SPEED OF FORCE	BAROMETER (mba)	AIR TEMP. °C	DRY BULB	WET BULB	VIS. CODE	ADD'L OBS	SPECIAL OBSERVATIONS
21										

REFERENCE	SHIP	LATITUDE	LONGITUDE	DEPTH	MARSDEN	STATION TIME	YEAR	ORIGINATOR'S		DEPTH	MAX. DEPTH	WAVE				WEATHER	CLOUD	NODC
COUNTRY	CODE	° ' 1/10	° ' 1/10	10'	SQUARE	(GMT)		CRUISE	STATION	TO	OF	SAMPLES	DIR.	PER	SEA	CODE	TYPE	STATION
31	S04	MY	26250N	056315E	103	66 08 16	202 1948				02							0010
					WATER	WIND		AIR TEMP. °C										
					COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
					CODE	(m)		(m/s)	(mbars)				DES.					
RESIDUAL	C-CAST	CARD	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC	W & D	SOUND	O ₂ ml/l	PO ₂ -P	TOTAL-P	NO ₂ -N	NO ₃ -N	SiO ₄ -Si	pH		
HR	NO.	TYPE					ANOMALY-X10 ³	DYN. M. X10 ³	VELOCITY		μg-at/l	μg-at/l	μg-at/l	μg-at/l	μg-at/l			
	1	STD	0000	3230	3748	2280	0050690	0000	15530									
		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	SHIP	LATITUDE	LONGITUDE	DEPTH	MARSDEN	STATION TIME	YEAR	ORIGINATOR'S		DEPTH	MAX	WAVE		WEATHER	CLOUD	NODC
COUNTRY	CODE	° ' 1/10	° ' 1/10	10'	SQUARE	(GMT)		CRUISE	STATION	TO	DEPTH	OBSERVATIONS	CODE	TYPE	STATION	NUMBER
31	504	MY	26310N	055910E	103	65 08 17	070 1948			0059	00					0011
		WATER	WIND			AIR TEMP. °C										
		COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L						
		CODE	(m)		(m/s)	(mbars)				DES.						
RESIDUAL	C-CAST	CARD	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME	W & D	SOUND	O ₂ ml/l	PO ₂ -P	TOTAL-P	NO ₂ -N	NO ₃ -N	SiO ₄ -Si	pH
HR	NO.	TYPE					ANOMALY-X10 ³	DYN. M. X 10 ³	VELOCITY		μg-at/l	μg-at/l	μg-at/l	μg-at/l	μg-at/l	
	1	STD	0000	3310	3748	2250	0053476	0000	15546							
		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	SHIP	LATITUDE	LONGITUDE	DEPTH	MARSDEN	STATION TIME	YEAR	ORIGINATOR'S	DEPTH	MAX. DEPTH	WAVE	WEATHER	CLOUD	NODC
COUNTRY	CODE	° ' 1/10	° ' 1/10	10'	SQUARE	(GMT)		CRUISE	STATION	TO	OBSERVATIONS	CODE	TYPE	STATION
31	504	MY	26165N	055455E	103	65 08 17	085 1948			0095 00				0012
		WATER	WIND			AIR TEMP. °C								
		COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L				
		CODE	(m)		(m/s)	(mbars)				DES.				
		22												
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB	WET BULB	VIS. CODE	ADD'L					
22														
WATER	COLOR	TRANS.	DIR	SPEED	BAROMETER	DRY BULB								

REFERENCE	SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	HAZEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS	WEATHER CODE	CLOUD CODES	NCDC STATION NUMBER				
					CRUISE NUMBER	STATION NUMBER														
COUNTRY CODE	IDENTITY NUMBER			10° 1'	MONTH	DAY	HR 1/10						DIR	HT	FB	SEA	AMT	TYPE	AMT	
31	S04	MY	26050N	055420E	103	65	08 17 100	1948			0066	00								0013

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

MEASUREMENT TIME	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY—X 10 ³	Σ Δ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ —P μg-at/l	TOTAL—P μg-at/l	NO ₃ —N μg-at/l	NO ₂ —N μg-at/l	SiO ₂ —Si μg-at/l	pH
	1	STD	0000	3300	3716	2230	0055419	0000	15540							
		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	SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	HAZEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES	NCDC STATION NUMBER	
COUNTRY CODE	IDENTITY NUMBER			10° 1'	MONTH	DAY	HR 1/10		CRUISE NUMBER	STATION NUMBER			DIR	HT	FB	SEA	AMT	TYPE	AMT
31	S04	MY	26025N	055115E	103	65	06 17 136	1948			0095	00							0014

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

MEASUREMENT TIME	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY—X 10 ³	Σ Δ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ —P μg-at/l	TOTAL—P μg-at/l	NO ₃ —N μg-at/l	NO ₂ —N μg-at/l	SiO ₂ —Si μg-at/l	pH
	1	STD	0000	3380	3722	2205	0057815	0000	15556							
		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							

COUNTRY CODE	SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	HAZEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES	NCDC STATION NUMBER		
					10° 1'	MONTH	DAY	HR 1/10		CRUISE NUMBER	STATION NUMBER			DIR	HT	FB	SEA	AMT	TYPE	AMT
31	S04	MY	26350N	052400E	103	62	08	18	110	1948		0069	00							0015

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

MEASUREMENT TIME	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY—X 10 ³	Σ Δ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ —P μg-at/l	TOTAL—P μg-at/l	NO ₃ —N μg-at/l	NO ₂ —N μg-at/l	SiO ₂ —Si μg-at/l	pH
	1	STD	0000	3430	3875	2301	0048641	0000	15581							
		OBS	0000	343	3875	2301			15581							
		STD	0010	3186	3934	2435	0035895	0042	15543							
		STD	0020	2930	3979	2559	0024164	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		SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	DATE TIME	HARDEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE		CLOUD CODES		NODC STATION NUMBER			
COUNTRY CODE	IDENTITY NUMBER						12°	1°		CRUISE NUMBER	STATION NUMBER			DIR	HEI	PER	SEA	DIR	TYPE	AMT					
31	S04	MY	27115N	051015E	103	71	08	19	110	1948		0064											0019		
						WATER		WIND		AIR TEMP. °C		VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BAROMETER (mba)	DRY BULB													WET BULB	
							26																		

MEASUREMENT TIME	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY - X 10 ³	Σ Δ D. DYN. M X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ - P μg-at/l	TOTAL - P μg-at/l	NO ₃ - N μg-at/l	NO ₂ - N μg-at/l	SiO ₂ - Si μg-at/l	pH
1	STD	0000	0000	3350	3875	2331	0045785	0000	15566							
	OBS	0000	0000	335	3875	2331			15566							
	STD	0010	0010	3126	3908	2437	0035716	0041	15529							
	STD	0020	0020	2890	3947	2548	0025187	0071	15487							
1	OBS	0020	0020	289	3947	2548			15487							
	STD	0030	0030	2642	3993	2664	0014183	0091	15441							
	STD	0050	0050	2110	4106	2910	-0009004	0096	15330							
1	OBS	0050	0050	211	4106	2910			15330							

REFERENCE		SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	DATE TIME	HARDEN SQUARE	STATION TIME		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE		CLOUD CODES		NODC STATION NUMBER	
COUNTRY CODE	IDENTITY NUMBER						12°	1°		MONTH	DAY			HR	1/10	CRUISE NUMBER	STATION NUMBER	DIR	HEI	PER	SEA		DIR
31	S04	MY	28130N	050485E	103	80	08	19	190	1948		0059	00									0020	
						WATER		WIND		AIR TEMP. °C		VIS. CODE	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BAROMETER (mba)	DRY BULB			WET BULB									

MEASUREMENT TIME	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY - X 10 ³	Σ Δ D. DYN. M X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ - P μg-at/l	TOTAL - P μg-at/l	NO ₃ - N μg-at/l	NO ₂ - N μg-at/l	SiO ₂ - Si μg-at/l	pH
1	STD	0000	0000	3420	3831	2272	0051434	0000	15575							
	OBS	0000	0000	342	3831	2272			15575							
	STD	0010	0010		3831											
	STD	0020	0020		3831											
1	OBS	0020	0020		3831											
	STD	0030	0030		3881											
	STD	0050	0050		4082											
1	OBS	0050	0050		4082											

REFERENCE		SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	DATE TIME	HARDEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE		CLOUD CODES		NODC STATION NUMBER	
COUNTRY CODE	IDENTITY NUMBER						12°	1°		CRUISE NUMBER	STATION NUMBER			DIR	HEI	PER	SEA	DIR	TYPE	AMT			
31	S04	MY	28020N	050140E	103	80	08	19	217	1948		0057	00									0021	
						WATER		WIND		AIR TEMP. °C		VIS. CODE	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BAROMETER (mba)	DRY BULB												

MEASUREMENT TIME	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY - X 10 ³	Σ Δ D. DYN. M X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ - P μg-at/l	TOTAL - P μg-at/l	NO ₃ - N μg-at/l	NO ₂ - N μg-at/l	SiO ₂ - Si μg-at/l	pH
1	STD	0000	0000	3360	3869	2323	0046570	0000	15567							
	OBS	0000	0000	336	3869	2323			15567							
	STD	0010	0010	3165	3934	2443	0035177	0041	15539							
	STD	0020	0020	2940	3988	2562	0023864	0070	15502							
1	OBS	0020	0020	294	3988	2562			15502							
	STD	0030	0030	2684	4031	2680	0012738	0089	15454							
	STD	0050	0050	2080	4082	2900	-0008067	0093	15319							
1	OBS	0050	0050	208	4082	2900			15319							

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
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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:

31505 —	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												
NDDC 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 _t ↓
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												
NDDC 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 _t ↓
STD	OBS	0000	20	95	40	70	28	87	0 000	
		0000	20	95	40	70	28	87		
STD	OBS	0010	20	91	40	53	28	75	0 006-	
		0010	20	91	40	53	28	75		

SURFACE OBSERVATIONS												
NDDC 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 _t ↓
STD		0000	20 91	40 50	28 73	0 000		
	QRS	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 ▼	Σ ΔD ▼	O ₂ ml/l ▼	V _t ▼
STD	0000	20 18	40 79	29 15	0 000		
ORS	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 ▼	Σ ΔD ▼	O ₂ ml/l ▼	V _t ▼
STD	0000	20 29	40 51	28 91	0 000		
ORS	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 ▼	Σ ΔD ▼	O ₂ ml/l ▼	V _t ▼
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 _t ↓
STD	OBS	0000	19	86	40	28	28	85	0 000		
		0000	19	86	40	28	28	85			
STD	OBS	0010	19	76	40	26	28	86	0 007-		
		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 _t ↓
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 _t ↓
STD		0000	14	40	40	23	30	16	0 000		
	ORS	0000	14	40	40	23	30	16			
STD		0010	14	39	40	12	30	08	0 019-		
	ORS	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 ↓	Σ ΔD ↓	O ₂ ml/l ↓	v _t ↓
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 ↓	Σ ΔD ↓	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 ↓	Σ ΔD ↓	O ₂ ml/l ↓	v _t ↓
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 _l ↓
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 _l ↓
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 _l ↓
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 ↓		$\Sigma \Delta D$ ↓	O_2 ml/l ↓	v_t ↓
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 ↓		$\Sigma \Delta D$ ↓	O ₂ ml/l ↓	v_t ↓	
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 ↓		$\Sigma \Delta D$ ↓	O_2 ml/l ↓	v_t ↓	
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 _t ↓
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 _t ↓
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 _t ↓
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 _t ↓
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 _t ↓
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 _t ↓
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 $\downarrow$	WET $\downarrow$			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
04	32						00				3					03

SUBSURFACE OBSERVATIONS									
	SAMPLE DEPTH (M)	T °C $\downarrow$	S ‰ $\downarrow$	σ_t $\downarrow$	$\Sigma \Delta D$ $\downarrow$	O_2 ml/l $\downarrow$	V_l $\downarrow$		
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 $\downarrow$	WET $\downarrow$			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
09	31						00				3					04

SUBSURFACE OBSERVATIONS									
	SAMPLE DEPTH (M)	T °C $\downarrow$	S ‰ $\downarrow$	σ_t $\downarrow$	$\Sigma \Delta D$ $\downarrow$	O_2 ml/l $\downarrow$	V_l $\downarrow$		
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 $\downarrow$	WET $\downarrow$			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
10	32						00				4					04

SUBSURFACE OBSERVATIONS									
	SAMPLE DEPTH (M)	T °C $\downarrow$	S ‰ $\downarrow$	σ_t $\downarrow$	$\Sigma \Delta D$ $\downarrow$	O_2 ml/l $\downarrow$	V_l $\downarrow$		
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		$\Sigma \Delta D$	O_2 ml/l	V_t
				↓		↓		↓		↓		↓
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		$\Sigma \Delta D$	O_2 ml/l	V_t
			↓			↓		↓		↓	↓
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 ↓		$\Sigma \Delta D$ ↓	O_2 ml/l ↓	v_t ↓
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 ↓		Σ ΔD ↓	O ₂ ml/l ↓	V _t ↓
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 ↓		Σ ΔD ↓	O ₂ ml/l ↓	V _t ↓	
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 ↓	Σ ΔD ↓	O ₂ ml/l ↓	v _t ↓
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 ↓	Σ Δ D ↓	O ₂ ml/l ↓	V _t ↓
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 ↓	Σ Δ D ↓	O ₂ ml/l ↓	V _t ↓
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 ↓	Σ Δ D ↓	O ₂ ml/l ↓	V _t ↓
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		$\Sigma \Delta D$	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 ↓		Σ ΔD ↓	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		$\Sigma \Delta D$	O_2 ml/l	V_l
			↓	↓	↓	↓	↓	↓	↓	↓	↓
STD		0000	16	34	38	58	28	44	0 000		
OBS		0000	16	34	38	58	28	44			
		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		HUMIDITY	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 ↓	Σ ΔD ↓	O ₂ ml/l ↓	V _t ↓		
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		HUMIDITY	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 ↓	Σ ΔD ↓	O ₂ ml/l ↓	V _t ↓		
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		HUMIDITY	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 _t ↓		
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 _t ↓		
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 _t ↓		
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 _t ↓		
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 ↓	$\Sigma \Delta D$ ↓	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 ↓	$\Sigma \Delta D$ ↓	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 ↓	$\Sigma \Delta D$ ↓	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 ↓		Σ ΔD ↓	O ₂ ml/l ↓	v _t ↓
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 ↓		Σ ΔD ↓	O ₂ ml/l ↓	v _t ↓
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 ↓		Σ ΔD ↓	O ₂ ml/l ↓	v _t ↓
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		HUMID- ITY	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 _t ▼
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		HUMID- ITY	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 _t ▼
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		HUMID- ITY	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 _t ▼
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 _l ↓	
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 _l ↓	
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 _l ↓	
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 ↓		Σ ΔD ↓	O ₂ ml/l ↓	v _t ↓
STD				18	55	40	52	29	38	0 000		
OBS				18	55	40	52	29	38			
OBS				18	55	40	43	29	31			
STD						40	48					
OBS						40	53					
STD						39	93					
OBS						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 ↓		Σ ΔD ↓	O ₂ ml/l ↓	v _t ↓
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 ↓		Σ ΔD ↓	O ₂ ml/l ↓	v _t ↓
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 Ψ	WET Ψ			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
01	32						00				0					08

SUBSURFACE OBSERVATIONS										
SAMPLE DEPTH (M)		T °C ↓		S ‰ ↓		σ_t ↓		$\Sigma \Delta D$ ↓	O_2 ml/l ↓	V_t ↓
OBS	0000	18	29*	39	79*	28	89*			
	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 Ψ	WET Ψ			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
13	12						02				4					07

SUBSURFACE OBSERVATIONS										
SAMPLE DEPTH (M)		T °C ↓		S ‰ ↓		σ_t ↓		$\Sigma \Delta D$ ↓	O_2 ml/l ↓	v_t ↓
S	0000	20	13	37	59	26	72	0 000 0 003		
	0000	20	13	37	59	26	72			
S	0010	18	16	39	79	28	92			
	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 Ψ	WET Ψ			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.		COL.	TRANS.
11	11						02				3					08

SUBSURFACE OBSERVATIONS										
SAMPLE DEPTH (M)		T °C ↓		S ‰ ↓		σ_t ↓		$\Sigma \Delta D$ ↓	O_2 ml/l ↓	v_t ↓
S	0000	19	85	37	80	26	95	0 000		
	0000	19	85	37	80	26	95			
S	0010	18	50	39	95	28	95	0 002		
	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 ▼	Y ₁ ▼		
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 ▼	Y ₁ ▼		
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 ▼	§ 10' ▼		
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_t ↓
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_t ↓
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_t ↓
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	Σ ΔD	O ₂ ml/l	V _i	
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	Σ ΔD	O ₂ ml/l	V _i	
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 ‰
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		SHIP	LATITUDE	LONGITUDE	HAUSDEN	SQUARE	STATION TIME	YEAR	ORIGINATOR'S		DEPTH	MAX	WAVE					WEATHER	CLOUD	NODC	
COUNTRY	IDENTITY	CODE	° ' 1/10	° ' 1/10	10" 1"	10" 1"	DAY	HR 1/10	CRUISE	STATION	TO	DEPTH	DIR	HT	PER	SEA	AMT	CODE	TYPE	AMT	STATION
31	505	MU	2657 N	05000 E	103	60	02	09	096	1951		00									0001
					WATER		WIND		AIR TEMP °C												
					COLOR	TRANS	DIR	SPEED	BAROMETER	DRY BUL	WET BUL	WIL	ADD'L								
					CODE	(m)		(ft)	(mb)												
MESSINGER		C-CAST	CARD	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME	ANOMALY - X 10 ³	Σ Δ D	SOUND	O ₂ ml/l	PO ₂ - P	TOTAL - P	NO ₂ - N	NO ₃ - N	SiO ₂ - Si	pH			
TIME	HR 1/10	NO.	TYPE								VELOCITY		μg-at/l	μg-at/l	μg-at/l	μg-at/l	μg-at/l				
		1	STD	0000	1890	4046	2924	-0010529	-0000		15256										
			OBS	0000	189	4046	2924				15256										
			STD	0010		4050															
			STD	0020		4055															
			STD	0030		4059															
		1	OBS	0037	193	4062	2926				15275										

REFERENCE		SHIP	LATITUDE	LONGITUDE	HAUSDEN	SQUARE	STATION TIME	YEAR	ORIGINATOR'S		DEPTH	MAX	WAVE					WEATHER	CLOUD	NODC	
COUNTRY	CODE	IDENTITY NUMBER	° ' 1/10	° ' 1/10	10" 1"	10" 1"	DAY	HR 1/10	CRUISE NUMBER	STATION NUMBER	TO BOTTOM	DEPTH SAMPLES	DIR.	PER	SEA	AMT	CODE	TYPE	AMT	STATION	
31	505	MU	2657 N	05000 E	103	60	02	12	097	1951		00								0002	
				WATER		WIND		AIR TEMP °C		DEPTH		SPECIAL OBSERVATIONS									
				COLOR	TRANS	DIR	SPEED	BAROMETER	DRY BUL	WET BUL	WIL	ADD'L									
				CODE	(m)		(ft)	(mb)													
MESSINGER	C-CAST	CARD	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME	ANOMALY - X 10 ³	Σ Δ D	SOUND	O ₂ ml/l	PO ₂ - P	TOTAL - P	NO ₂ - N	NO ₃ - N	SiO ₂ - Si	pH				
HR 1/10	NO.	TYPE								VELOCITY		μg-at/l	μg-at/l	μg-at/l	μg-at/l	μg-at/l					
		OBS	0024	183	4052	2944				15244											

REFERENCE COUNTRY CODE	SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	DEPTH METERS	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER	
						10°	1°	MONTH DAY		HR. 1/10	CRUISE NUMBER			STATION NUMBER	DIR.	HET	PER		SEA AMT	TYPE		AMT.
31	S05	MU	2657 N	05000 E	103	60	02	15	095	1951			00									0003
						WATER		WIND		AIR TEMP °C		VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB											WET BULB
RESIDUOUS TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY—X 10 ³		Σ Δ D DYN. M. X 10 ³		SOUND VELOCITY		O ₂ ml/l	PO ₂ —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	IDENTITY NUMBER	SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	DEPTH METERS	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER	
							10°	1°	MONTH DAY		HR. 1/10	CRUISE NUMBER			STATION NUMBER	DIR.	HET	PER		SEA AMT	TYPE		AMT.
31	S05	MU	2657 N	05003 E	103	60	02	17	095	1951				00									0004
						WATER		WIND		BAROMETER		AIR TEMP °C		VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB											
RESIDUOUS TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY—X 10 ³		Σ Δ D DYN. M. X 10 ³		SOUND VELOCITY		O ₂ ml/l	PO ₂ —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		SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	DEPTH METERS	MARSDEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER	
COUNTRY CODE	IDENTITY NUMBER						10°	1°		MONTH DAY	HR. 1/10			CRUISE NUMBER	STATION NUMBER	DIR.	HET		PER	SEA AMT		TYPE
31	S05	MU	2925 N	04756 E	104	97	02	23	099	1951			00								0005	
							WATER		WIND		BAROMETER		AIR TEMP °C		VIS. CODE	ADD'L OBS.	SPECIAL OBSERVATIONS					
							COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB									
RESIDUOUS TIME HR. 1/10		CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY—X 10 ³		Σ Δ D DYN. M. X 10 ³		SOUND VELOCITY		O ₂ ml/l	PO ₂ —P μg-at/l	TOTAL—P μg-at/l	NO ₂ —N μg-at/l	NO ₃ —N μg-at/l	Si O 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 _t ↓
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 _t ↓
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 _t ↓
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		Σ ΔD	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 ↓		Σ ΔD ↓	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	$\Sigma \Delta D$
		↓	↓	↓	↓	↓	↓
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	$\Sigma \Delta D$
		↓	↓	↓	↓	↓	↓
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 ↓	Σ ΔD ↓	O ₂ ml/l ↓	V _t ↓
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		ANEWO. 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 ↓	Σ ΔD ↓	O ₂ ml/l ↓	V _t ↓
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 ↓		Σ ΔD ↓	O ₂ ml/l ↓	v _t ↓
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 ↓	Σ ΔD ↓	O ₂ ml/l ↓	v _t ↓
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 Δ D ▼	O ₂ ml/l ▼	V _t ▼		
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 Δ D ▼	O ₂ ml/l ▼	V _t ▼		
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		ANEWO. 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 ↓	Σ ΔD ↓	O ₂ ml/l ↓	V _t ↓
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		ANEWO. 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 ↓	Σ ΔD ↓	O ₂ ml/l ↓	V _t ↓
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 ↓	Σ ΔD ↓	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 ↓	Σ ΔD ↓	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 Ψ	WET Ψ			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 _t ↓
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 Ψ	WET Ψ			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 _t ↓
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 ‰/‰ ↓	σ _t ↓	Σ ΔD ↓	O ₂ ml/l ↓	V _l ↓
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 ‰/‰ ↓	σ _t ↓	Σ ΔD ↓	O ₂ ml/l ↓	V _l ↓
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 ↓		Σ ΔD ↓	O ₂ ml/l ↓	v _t ↓
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 ↓		Σ ΔD ↓	O ₂ ml/l ↓	v _t ↓
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 ▼	$\Sigma \Delta D$ ▼	O ₂ ml/l ▼	V _t ▼
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 ▼	$\Sigma \Delta D$ ▼	O ₂ ml/l ▼	V _t ▼
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 ↓	γ _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		WATER	
SPEED	DIR.			DRY ↓	WET ↓			TYPE	AMT.	DIR.	AMT.	DIR.	AMT.	VIS.	COL. TRANS.
07	14						01				1				11

SUBSURFACE OBSERVATIONS							
	SAMPLE DEPTH (M)	T °C ↓	S ‰ ↓	σ _t ↓	Σ ΔD ↓	O ₂ ml/l ↓	V _t ↓
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 _t ↓
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 _t ↓
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 _t ↓
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 ↓	Σ ΔD ↓	O ₂ ml/l ↓	V _t ↓
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 ↓	Σ ΔD ↓	O ₂ ml/l ↓	V _t ↓
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		ANEWO. 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 ↓	Σ ΔD ↓	O ₂ ml/l ↓	V _t ↓
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 ↓	Σ ΔD ↓	O ₂ ml/l ↓	V _t ↓
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 ▼	$\Sigma \Delta D$ ▼	O ₂ ml/l ▼	V _t ▼
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 ▼	$\Sigma \Delta D$ ▼	O ₂ ml/l ▼	V _t ▼
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 _t ↓
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 _t ↓
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 ↓	Σ ΔD ↓	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 ↓	Σ ΔD ↓	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 _t ↓
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 _t ↓
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 _l ↓
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 _l ↓
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 ▼	▼ Σ ΔD	O ₂ ml/l ▼	V _t ▼	
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 ▼	▼ Σ ΔD	O ₂ ml/l ▼	V _t ▼	
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 ↓	V _t ↓
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 ↓	V _t ↓
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 ↓	Σ ΔD ↓	O _{2m} l/l ↓	V _t ↓
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 ↓	Σ ΔD ↓	O _{2m} l/l ↓	V _t ↓		
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 ↓	Σ ΔD ↓	O ₂ m/l ↓	V _t ↓	
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 ↓	Σ ΔD ↓	O ₂ m/l ↓	V _t ↓	
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 ↓	Σ ΔD ↓	O ₂ m l/l ↓	V _t ↓	
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 ↓	Σ ΔD ↓	O ₂ m l/l ↓	V _t ↓	
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 ↓	Σ ΔD ↓	O ₂ ml/l ↓	V _t ↓		
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	0033	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 ↓	Σ ΔD ↓	O ₂ ml/l ↓	V _t ↓		
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		$\Sigma \Delta D$	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 ↓		$\Sigma \Delta D$ ↓	O_{2m} l/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 ↓	Σ ΔD ↓	O _{2m} l/l ↓	V _t ↓	
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 ↓	Σ ΔD ↓	O _{2m} l/l ↓	V _t ↓	
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 ↓	Σ ΔD ↓	O _{2m} l/l ↓	V _t ↓	
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 m l/l ↓	V _t ↓
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 m l/l	V _t
			↓		↓		↓		↓		↓
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		ANEWO. 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 m l/l ↓	V _t ↓
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		ANEWO. 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 m l/l	V _t
		↓	↓	↓	↓	↓	↓	↓	↓	↓
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 m/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 m/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 ↓	Σ ΔD ↓	O ₂ m l/l ↓	V _t ↓
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 ↓	Σ ΔD ↓	O ₂ m l/l ↓	V _t ↓
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 ↓		$\Sigma \Delta D$ ↓	O_2 m/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 ↓		$\Sigma \Delta D$ ↓	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 ↓	O ₂ m l/l ↓	V _t ↓	
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 ↓	O ₂ ml/l ↓	V _t ↓
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 ↓	Σ ΔD ↓	O ₂ m l/l ↓	V _t ↓		
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 ↓	Σ ΔD ↓	O ₂ m l/l ↓	V _t ↓		
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 ↓	Σ ΔD ↓	O ₂ m l/l ↓	V _t ↓		
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 ↓	Q _{2m} l/l ↓	V _t ↓
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 ↓	Q _{2m} l/l ↓	V _t ↓
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 ↓	Q _{2m} l/l ↓	V _t ↓
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 ↓	Σ ΔD ↓	O ₂ m l/l ↓	V _t ↓		
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 ↓	Σ ΔD ↓	O ₂ m l/l ↓	V _t ↓		
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 ↓	Σ ΔD ↓	O ₂ m l/l ↓	V _t ↓		
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 ↓	Σ ΔD ↓	D _{2m} I/I ↓	V _t ↓
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 ↓	Σ ΔD ↓	D _{2m} I/I ↓	V _t ↓
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 ↓	Σ ΔD ↓	D _{2m} I/I ↓	V _t ↓
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 M/L ↓	V _t ↓	
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 46	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 M/L ↓	V _t ↓	
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 ↓		$\Sigma \Delta D$ ↓	O_{2m}/l ↓	V_t ↓
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 _{2m} l/l ↓	V _t ↓		
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	$\Sigma \Delta D$	O_2 m/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 ↓	Σ ΔD ↓	O ₂ m l/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		$\Sigma \Delta D$	O_2 M/I	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		$\Sigma \Delta D$	O_2 M/L	V_t
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		$\Sigma \Delta D$	O_2 M/L	V_t
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		$\Sigma \Delta D$	O_2 M/L	V_t
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 ↓	Σ ΔD	O ₂ ml/l	V _t ↓
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 ↓	Σ Δσ ↓	O _{2m} l/l ↓	V _t ↓
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	Σ Δσ	O ₂ ml/l	V _t
		↓	↓	↓	↓	↓		↓
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 Δθ	D _{2m} l/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 Δθ	D _{2m} l/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		Σ ΔD		O ₂ ml/l		V _t
			↓		↓		↓		↓		↓		↓
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		Σ ΔD		O ₂ ml/l		V _t
			↓		↓		↓		↓		↓		↓
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 ↓	Σ ΔD ↓	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 ↓	Σ ΔD ↓	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 ↓	Σ ΔD ↓	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 ↓	Σ ΔD ↓	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 M/L ↓	V _t ↓
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 M/L ↓	V _t ↓
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 ↓	Σ ΔD ↓	D _{zm} l/l ↓	V _t ↓		
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 ↓	Σ ΔD ↓	D _{zm} l/l ↓	V _t ↓		
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 ↓	Σ ΔD ↓	O ₂ ml/l ↓	V _t ↓		
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 ↓	Σ ΔD ↓	O ₂ ml/l ↓	V _t ↓		
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 ‰ _{sw} ↓		σ _t ↓		Σ ΔD ↓	D _{2m} l/l ↓	V _t ↓
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 m l/l	V _t	
			↓	↓		↓		↓		↓	
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 _t ↓		
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 _t ↓		
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 ↓	Σ ΔD ↓	O ₂ ml/l ↓	V _t ↓		
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 ↓	Σ ΔD ↓	O ₂ ml/l ↓	V _t ↓		
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 ↓		$\Sigma \Delta D$ ↓	O_2 m l/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 ↓		$\Sigma \Delta D$ ↓	O_2 m l/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 _t ↓
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 m l/l ↓	V _t ↓	
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 $\downarrow$	WET $\downarrow$			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 ↓		$\Sigma \Delta D$ ↓	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 $\downarrow$	WET $\downarrow$			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 ↓		Σ ΔD ↓	O ₂ m l/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 _t ↓
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 _t ↓
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 ↓	Σ ΔD ↓	O ₂ ml/l ↓	V _t ↓		
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 ↓	Σ ΔD ↓	O ₂ ml/l ↓	V _t ↓		
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 ↓	↓	Σ ΔD ↓	O ₂ ml/l ↓	V _t ↓	
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 ↓	↓	Σ ΔD ↓	O ₂ ml/l ↓	V _t ↓	
STD	0000	22 74	37 37	25 83		0 000			
OBS	0000	22 74	37 37	25 83					
STD	0010	22 95	37 46	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 ↓	$\Sigma \Delta D$ ↓	O_2 m/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 ‰ _{sw} ↓		σ_t ↓		$\Sigma \Delta D$ ↓	O_2 m l/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			
00665	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 ↓		$\Sigma \Delta D$ ↓	O_2 m l/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 ↓		$\Sigma \Delta D$ ↓	O_2 m l/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 ↓		Σ ΔD ↓	O ₂ m/l ↓	V _t ↓		
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		
		NO.	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 ↓		Σ ΔD ↓	O ₂ m/l ↓		V _t ↓	
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		$\Sigma \Delta D$	O_2 M/I	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		$\Sigma \Delta D$	O_2 M/I	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 m/l ↓	V _t ↓
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 m l/l ↓	V _t ↓
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 M/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 M/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 Ψ	WET Ψ			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		$\Sigma \Delta D$		D _{2m} l/l	V _f
		$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$		
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 Ψ	WET Ψ			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 $\downarrow$	S ‰ $\downarrow$	σ_t $\downarrow$	$\Sigma \Delta D$ $\downarrow$	O_2 ml/l $\downarrow$	V_f $\downarrow$				
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		HUMID- ITY	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 ↓	$\Sigma \Delta D$ ↓	O ₂ ml/l ↓	V _t ↓		
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		HUMID- ITY	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 ↓	$\Sigma \Delta D$ ↓	O ₂ ml/l ↓	V _t ↓
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 m/l ↓	V _t ↓	
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 m/l ↓	V _t ↓	
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 ↓	$\Sigma \Delta D$ ↓	O_2 ml/l ↓	V_t ↓	
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	PG06	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 ↓	$\Sigma \Delta D$ ↓	O_2 ml/l ↓	V_t ↓
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 _{2m} l/l	V _t
		↓		↓		↓		↓	↓	↓
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 _{2m} l/l ↓	V _t ↓	
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 ↓	Σ ΔD ↓	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 ↓	Σ ΔD ↓	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 ↓		$\Sigma \Delta D$ ↓	O ₂ ml/l ↓	V _t ↓
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 ↓		$\Sigma \Delta D$ ↓	O_{2m} l/l ↓	V_t ↓		
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 _{2m} l/l ▼	V _t ▼	
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 _{2m} l/l ▼	V _t ▼	
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 ↓		Σ ΔD ↓	O ₂ m/l ↓	V _t ↓		
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 ₁ ↓		Σ ΔD ↓	D _{2m} l/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 ↓	Σ ΔD ↓	O ₂ ml/l ↓	V _t ↓		
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 ↓	Σ ΔD ↓	O ₂ ml/l ↓	V _t ↓		
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 ↓	Σ ΔD ↓	O _{2m} l/l ↓	V _t ↓			
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 ↓	Σ ΔD ↓	O _{2m} l/l ↓	V _t ↓			
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												
NDDC 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 ↓		$\Sigma \Delta D$ ↓	$O_{2m} \text{ l/l}$ ↓	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 ↓		$\Sigma \Delta D$ ↓	O_{2m}/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		$\Sigma \Delta D$	O_2 ml/l	V_t
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		$\Sigma \Delta D$	O_2 ml/l	V_t
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	Σ ΔD	O ₂ m l/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		Σ ΔD	O ₂ m/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 ↓	Σ ΔD ↓	O _{2m} l/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 ‰ _{ss} ↓	σ _t ↓	Σ ΔD ↓	O _{2m} l/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		HUMID- ITY	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 ↓		$\Sigma \Delta D$ ↓	O_2 ml/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		HUMID- ITY	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 ↓		$\Sigma \Delta O$ ↓	O_{2m} l/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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