WATER TRANSPARENCY OBSERVATIONS ALONG THE EAST COAST OF NORTH AMERICA

(With 2 Plates)

By

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AND
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CITY OF WASHINGTON
PUBLISHED BY THE SMITHSONIAN INSTITUTION
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INTRODUCTION

Marine biologists have long been interested in the transparency of natural waters as an important parameter in the determination of both the amount and type of plant life at various depths. Owing to this interest, many transparency surveys, in the oceans [4, 8, 16, 19, 22, 23], in lakes [7, 33], and on pure water [27], have been made. In recent years, however, this interest in water clarity has spread to other fields, such as underwater photography (1, 9, 20, 24, 33) and television. In addition, there is a growing movement among workers in the field to utilize transparency as a “tag” for water masses in the study of such things as circulation patterns [23, 25].

During the years 1947-51 the yacht Elsie Fenimore made a rather extensive survey of water transparency conditions along the east coast of North America from Labrador to the Gulf of Mexico, including some stations around Newfoundland and the British West Indies. Even though the data herein presented are admittedly far from complete and a number of other studies have been made of the area [3, 5, 10, 11, 12, 13, 14, 15, 17, 18, 21, 28, 31] this study represents, from a geographical standpoint, the most extensive single piece of work done on the subject to date. For this reason, if for no other, it seems desirable to publish this information in the present form so that it may become available.

To make the data as universal as possible the unit chosen was the so-called Equivalent Secchi Disc Reading. Since it is obviously impossible to use the Secchi Disc [32] for measurement of water transparency if the water mass to be measured is at a great depth, this water mass is hypothetically brought to the surface for measurement. Thus the Equivalent Secchi Disc Reading may be said to be the dis-

1 Mr. Williams is associated with the Chesapeake Bay Institute; Mr. Johnson is a research associate in the Limnology Department, Academy of Natural Sciences of Philadelphia; and Mr. Dyer is connected with the Fenjohn Company.

2 Numbers in brackets indicate references in the bibliography.
tance at which a Secchi Disc would just disappear if it were immersed in water and if that water were at the surface.

As an example, if an Equivalent Secchi Disc Reading were given as 10 feet for water at a depth of 100 feet, this would mean that if the water mass at a depth of 100 feet were brought to the surface a Secchi Disc would disappear from view at a distance of 10 feet in this transposed volume of water.

The Secchi Disc is admittedly a crude indicator of water trans-

parency, since it was originally used by marine biologists to measure the so-called extinction coefficient. This is a measure of the amount of light reaching a horizontal surface at some depth. Unfortunately, the extinction coefficient is not only a measure of the water trans-

parency but also a function of such things as sea state, cloud cover, altitude of sun, and other factors. Even so, however, the Secchi Disc reading is probably a reasonably good indicator of water clarity if it is taken with the sun fairly high in the sky and if it is viewed through a glass-bottom viewer or hydroscope [30].

In addition, the Secchi Disc reading is an easily understood unit, generating an intuitive feeling for the existing conditions, so that it has become fairly universal in its use as an indicator of water transparency.

Of course, the actual Secchi Disc reading gives an average value of the transparency of the surface layers, so that if a layer of markedly different water exists somewhere from top to bottom, it will not be seen. For this reason, other instruments which measure trans-

parency of relatively small volumes of water were used in conjunction with the disc. These will be discussed in a later section.

The writers wish to express their appreciation to Dr. Ruth Patrick, Curator, and Miss Margaret Le Mesurier, Librarian, of the Depart-

ment of Limnology, Academy of Natural Sciences of Philadelphia, for their indispensable aid in the preparation of this manuscript. Ap-

preciation is also expressed to the Smithsonian Institution for material aid and advice in this project and publication of the paper, and to the Academy of Natural Sciences of Philadelphia for its contribution of personnel and materials in the carrying out of this program. We regret that space does not permit the listing of over 50 other persons and institutions to whom we are indebted for advice and assistance rendered.

INSTRUMENTS

The instruments utilized in the accumulation of the data presented herein can roughly be divided into two classes: (1) those that meas-
ure the medium in its natural environment and (2) laboratory-type instruments in which a water sample is removed from the medium and examined in the shipboard laboratory. The first type is usually considered the more reliable when dealing with natural waters, since the transparency properties seem to change rather markedly when a sample is taken out of its natural environment, and therefore this type is discussed first.

I. IN SITU INSTRUMENTS

A. Secchi Disc (pl. 1, fig. 4)

The Secchi Disc, owing to its ruggedness and ease of use, was the most often used of any of the devices to be listed. The disc used was 7 1/2 inches in diameter and was painted a flat white, having a reflectance coefficient of about 0.8. It was obtained from the Oceanographic Institution at Woods Hole, Mass. A specially designed hydroscope (pl. 1, fig. 3) was occasionally used in conjunction with the Secchi Disc to eliminate water-surface effects. Generally the Secchi Disc was observed by means of a glass-bottom bucket. Readings were made from the sunny side of the ship, except where otherwise noted in the data tables, and the recorded value is the distance from the bottom of the hydroscope to the disc, i.e., the distance traveled by the reflected light from the disc surface through the medium in which it is suspended.

B. Point Source Light

On a number of occasions the transparency of water was measured by observing the distance at which a point source of light can be seen. This method of measurement may be seen to be similar to that of the Secchi Disc.

Although a true point source of light is well-nigh physically impossible, the tungsten filament of a 1,000-watt diver’s lamp approximated this well enough for the range of transparency encountered in the near coastal and inland waters. It unfortunately fails badly in the ultraclear sections of the open ocean, where it diminishes in size and eludes the observer before reaching extinction through absorption.

In turbid waters the point source shows up as an incandescent spot surrounded by scattered light having the appearance of luminescence in which the visual range is the point at which it disappears into the background of scattered light. In clearer water, on the other hand, the background of scattered light, if it can be seen at all, is seen only when the point source is close to the observer and disappears while...
the incandescent spot is still plainly visible. The energy from this spot is so reduced by attenuation that the structural shape of the filament can be clearly seen. The visual range is then taken to be the distance to that point at which the filament completely disappears.

Most of these observations were made horizontally with the lamp and the objective of the hydroscope both placed 5 feet below the water surface. For the sake of completeness, observations were made both during the day and at night. Plate I, figure 1, shows the point source of light being observed through the hydroscope.

C. Illuminated Letter

This observation method involved the use of a low-powered lamp enclosed in a small housing with an opal glass window, in front of which was mounted a rotatable disc which had a series of cutout letters. The whole rig was mounted on a pole which could be extended approximately 5 feet below the surface and was observed by means of the hydroscope. The procedure adopted consisted of bringing the illuminated letter toward the hydroscope in a horizontal direction until the observer could make a positive identification of the nature of the letter.

D. Underwater Objects

To obtain some idea of the horizontal visibility available at various stations, black and white balls approximately 6 inches in diameter were lowered about 5 feet below the surface of the water and observed with the hydroscope. The horizontal distance at which the balls disappeared from view was recorded.

E. U.S. Navy Hydrophotometer Mk. II (pl. I, fig. 2)

To obtain a measure of the variation in transparency with depth, standard U.S. Navy hydrophotometers were used quite extensively. They consisted of two principal parts; a control box and an underwater unit connected by an electrical cable. The underwater unit may be lowered to any desired depth and the transparency at that depth is indicated at the control box. It is very similar in its operation to a number of earlier instruments [6, 29, 33].

The underwater unit consists of two heads separated by a fixed distance of 0.5 meter, one head containing a photocell, \( P_1 \), and the other containing a collimated light source and another photocell, \( P_2 \) which is connected so that its output is in opposition to the output of cell \( P_1 \). In operation the light shines both on \( P_1 \) and \( P_2 \) and the com-
combined output of the two cells is adjusted by means of light irises so that the meter in the control box reads 100 percent when the underwater unit is in air (air is assumed to be a nonattenuating medium). Then, as an attenuating medium such as water is placed between the light and photocell $P_1$, the meter will read some fraction of 100 percent. Actually, since there is a light loss of about 4 percent per glass-air interface owing to the different indices of refraction of glass and air which does not occur when the device is submerged because of the similarity of glass and water indices of refraction, the reading in air should be set to 92 percent instead of 100 percent [34].

There is a definite temperature effect on the device, but in view of the sources of error existent in the other methods of measurement and the length of time required for an internal temperature change to occur, it is felt that this temperature dependence is negligible. This temperature effect is reported in the National Bureau of Standards Text No. 43P-1/47.

F. Hydroscope

This instrument is essentially an underwater telescope having a $15^\circ$ field of view with interchangeable heads for either vertical or horizontal viewing for Secchi Disc or other visibility range readings. Plate 1, figure 3, shows the device which is approximately 15 feet long and uses a lens system of unit magnification. The viewing head is equipped with a focusing eyepiece, a rubber face pad to exclude external light, and two positioning control handles.

In use, the hydroscope is supported in a ball-and-socket mount on a platform extending from the side of the ship, with the objective head of the instrument extending 5 feet below the water surface.

II. LABORATORY TYPE INSTRUMENTS

A. Peraquameter (pl. 2, fig. 1)

This device is very similar in principle to the illuminated letter described above, except that the letter to be identified is placed in a long tube (11 feet long) which is filled with the water of interest by means of a pump. The observer looks into this tube and is able to move the image of the letter, by means of a movable mirror, until positive identification is possible.

The peraquameter was used when visual range, using the illuminated letter, was found to be under 22 feet.
B. Scattering Meter (pl. 2, fig. 2)

To measure light scattering due to suspended particles in natural waters, Dyer developed a device which essentially consisted of a light source that sent a beam of light through the sample. At right angles to the beam, a photocell was placed, and the amount of scattering was then a function of the output of this photocell.

The sample cell used was first a $2\frac{1}{2}'' \times 2\frac{1}{2}'' \times 1''$ rectangular glass container, but this was later changed to a $3'' \times 3'' \times 2''$ plastic cell to handle a larger sample and at the same time defeat the problem of condensation on the outside of the cell due to cold-water samples.

The electrical circuit was so designed that the output current of the photronic tube affected the grid current of an amplifier tube, thus causing changes in the plate current of the amplifier for small changes in the output of the photocell. A microammeter with scale ranging from 0 to 100 was selected as an indicator of the degree of scattering and was connected in the plate circuit of the amplifier. The circuit was adjusted so that the output current could be zeroed for any given beam intensity with the sample cell empty. For operating convenience, a reflecting rod was so mounted that it could be swung into a fixed position in the light beam in order that a check could be maintained on the source light output by means of its effect on the output of the photronic cell. The entire unit, including batteries, was mounted in a glass-fronted metal case for convenience.

As finally evolved, the device proved capable of covering the entire range of turbidity from Delaware River water to the finest obtainable grade of triple-distilled pharmaceutical water.

METHODS OF DATA ANALYSIS

For the sake of uniformity it seemed desirable to convert all the hydrophotometer readings to "Equivalent Secchi Disc Readings," as defined in a previous section. To do this required some relationship between actual Secchi Disc readings and hydrophotometer readings, which was not readily available. Williams, however, has developed an expression involving the extinction coefficient as a function of the Secchi Disc reading, and since the hydrophotometer transparency measurement is similar to the extinction coefficient measured under ideal conditions, it was decided to use this approach.

Let:

\[ B_s = \text{Illumination at the sea surface.} \]
\[ B_e = \text{Brightness of the Secchi Disc as seen by the eye.} \]
1. Peraquameter. 2. Scattering meter.
$B_o = \text{Brightness of the surrounding water at the hydroscope depth. (This is the background against which the Secchi Disc is seen.)}$

$B_{oD} = \text{Actual brightness of the disc at the disc.}$

$B_{bD} = \text{Actual brightness of the surrounding water at the disc depth.}$

$R_s = \text{Reflectance of the sea surface.}$

$R_t = \text{Reflectance of the Secchi Disc.}$

$U_w = \text{Relative amount of light going in an upward direction compared to that going in a downward direction at the hydroscope depth.}$

$D = \text{Length of attenuating medium interposed between the eye and the object.}$

$d = \text{Depth of the glass-bottom bucket or hydroscope.}$

$k = \text{Extinction coefficient.}$

When the Secchi Disc is observed, it can be seen as long as the brightness of the disc is greater than that of its surroundings. In other words, the contrast produced by the disc against its background allows the disc to be seen as long as this contrast is above the threshold value for human visibility.

Contrast is usually defined in the following manner:

$$\text{Contrast} = \left| \frac{\text{Object brightness} - \text{Background brightness}}{\text{Background brightness}} \right|$$

where the absolute value signs are used to keep the quantity positive when contrast is produced by a dark object on a light background.

In this particular case, there are two distinct contrasts to be dealt with—the apparent contrast, or that which the eye sees, and the actual contrast, or that which actually exists at the disc level.

Using the symbols defined above, the apparent contrast $C_A$ may be expressed as:

$$C_A = \frac{B_o - B_b}{B_b} \quad (1)$$

and the actual contrast, $C_R$, by:

$$C_R = \frac{B_{oD} - B_{bD}}{B_{bD}} \quad (2)$$

It turns out that diminutions of contrast through an attenuating medium follow this relationship:

$$C_A = C_R e^{-kd} \quad (3)$$

or, substituting the values for $C_A$ and $C_R$ from (1) and (2) in (3) we get:

$$\frac{B_o - B_b}{B_b} = \frac{B_{oD} - B_{bD}}{B_{bD}} e^{-kd} \quad (4)$$

Since $B_o$ is the brightness of the disc at the eye, this means that only the amount of sunlight reaching the eye from the disc is involved.
Let us derive an expression for $B_0$ in terms of some of the other variables. If there are $B_s$ units of illumination striking the sea surface, $R_sB_s$ units will be lost owing to reflection, and $B_s(1 - R_s)$ will be the amount of light actually entering the water surface. At a depth of $(d + D)$ the light value will now be $B_s(1 - R_s)e^{-k(d + D)}$.

Since only $R_d$ of the light reaching the disc is reflected from it, the light just leaving the disc would then have a value equal to $B_s(1 - R_s)e^{-k(d + D)}R_d$, which is $B_{dd}$.

(5) 

$$B_{dd} = B_s(1 - R_s)e^{-k(d + D)}R_d$$

Traveling back upward, the light would be further attenuated over the distance $D$, so that at the bottom of the hydroscope the brightness value would now be equal to $B_s(1 - R_s)e^{-k(d + D)}R_d e^{-kD}$. One more reflective loss occurs at air-glass-water interface which may be assumed to be equal percentagewise to the original surface reflective loss so that the object brightness at the eye turns out to be:

(6) 

$$B_0 = B_s(1 - R_s)e^{-k(d + D)}R_d e^{-kD}$$

Using the same methodology for calculation of the background brightness, we get the following:

(7) 

$$B_b = B_sU_w(1 - R_s)te^{-kD}$$

(8) 

$$B_{bb} = B_sU_w(1 - R_s)e^{-k(d + D)}$$

When (5), (6), (7), and (8) are substituted back in (4), the following is obtained:

$$B_sR_d(1 - R_s)te^{-k(d + D)} - B_sU_w(1 - R_s)te^{-kD} =$$

$$B_sU_w(1 - R_s)e^{-k(d + D)}$$

which, upon simplification becomes:

(9) 

$$\frac{R_d U_w}{U_w} = \left(\frac{R_d - U_w}{U_w}\right)e^{-kD}$$

Clearing fractions and transposing:

$$e^{2kD} - \left(\frac{R_d - U_w}{R_d}\right)e^{-kD} = 0$$

Letting $\frac{U_w}{R_d} = A$, and simplifying, gives:

$$e^{2kD} - (1 - A)e^{kD} - A = 0$$

or, multiplying by $e^{2kD}$ to give positive exponents, we get:

$$Ae^{2kD} + (1 - A)e^{kD} - 1 = 0$$

which, when solved for $e^{kD}$ gives:

(10) 

$$e^{kD} = \frac{1}{A} = \frac{R_d}{U_w}$$
or in terms of natural logarithms:

\[ kD = \ln \frac{R_d}{U_w} \]  

\[ k = \frac{1}{D} \ln \frac{R_d}{U_w} \]  

which in common logarithms is:

\[ k = \frac{2.3}{D} \log \frac{R_d}{U_w} \] (for \( D \) in meters)

\[ k = \frac{7.54}{D} \log \frac{R_d}{U_w} \] (for \( D \) in feet)

Equations (12) and (13), then, express a relationship involving \( k \), the extinction coefficient, \( D \), the Secchi Disc reading, \( R_d \), the reflectivity of the disc used, and \( U_w \), the relative amount of light traveling in an upward direction compared to that traveling downward. Let us look at each one of these variables a little more closely.

If we define a term \( E \), sometimes called optical density, as:

\[ E = \log \frac{100}{\%T} \]

where \( \%T = \) percent transmission, we may express \( k \) in terms of \( E \) by:

\[ k = 2.3 E \]

since \( k \) is given in terms of natural logarithms. Since \( E \) values and \( \%T \) values are conveniently tabulated in readily available tables, we may easily obtain a \( k \) value for any \( \%T \) value we may have as given by the hydrophotometer. In this manner we may reduce any hydrophotometer reading to its equivalent Secchi Disc reading or vice versa by substituting the \( k \) or \( D \) value in equation (12) or (13).

The \( D \) is, of course, the Secchi Disc reading which may be either read directly or calculated from the hydrophotometer reading. For the disc used \( R_d \) was about 0.8.

The relative amount of upwelling light, \( U_w \), however, was not measured and values were assumed for this quantity, based on other data taken by Williams in Chesapeake Bay and by the calculated values from the large number of stations where both Secchi Disc readings and hydrophotometer readings were taken.

If equation (12) is rewritten:

\[ k = \frac{x}{D} \]

where

\[ x = 2.3 \log \frac{R_d}{U_w} \]
or, since \( R_d = 0.8 \),

\[ x = 2.3 - 0.1 + \log \frac{1}{U_w}. \]

A plot of \( x \) vs. \( D \) may now be made, where \( x \) is calculated from stations at which hydrophotometer readings which give \( k \) and Secchi Disc readings which give \( D \) were taken simultaneously. This plot shows a marked variation of \( U_w \) as the Secchi Disc reading is changed, and is the graph which was used to determine unknown \( U_w \) values when the S.D. readings were known, both for stations which had hydrophotometer and Secchi Disc readings and for those which had only S.D. data.

By means of this methodology, then, it was possible to calculate equivalent Secchi Disc readings for each hydrophotometer reading taken.

**DISCUSSION OF DATA**

In the two appended tables, all the data taken on the *Elsie Fenimore* are tabulated. Table 1 includes the hydrophotometer and Secchi Disc data presented by seasons and in geographical order from North to South. Winter is considered to include the months of January, February, and March; spring—April, May, and June; summer—July, August, and September; and fall—October, November, and December. The various stations may be easily located by number on the series of charts (figs. 1-13, preceding the tables), which show the latitude and longitude of each of the stations mentioned.

Table 2 includes all the other data taken, utilizing the various devices of Dyer plus a few others which were also used. These data are presented in simple geographical order, proceeding from north to south.

The data as a whole, although being among the most extensive available at the present time, have many limitations and shortcomings, and these should be kept in mind while any attempt at utilization is being made.

The hydrophotometer readings were taken with utmost care. However, the calibration in air was apparently not standardized, the adjustment varying from 92 to 96% \( T \) in air instead of 92 percent as previously mentioned. This would have the effect of making all readings above 90 percent highly suspect since a small change in \( %T \) at this end of the scale is associated with a large change in the Secchi Disc reading.

This is probably also the reason for the significant number of readings which are above 100 percent, and hence change from quantitative readings to qualitative. This 92 percent reading in air as being the
equivalent of a 100% $T$ reading in water was apparently unknown to the data takers, which is not surprising since the instruction book written for the U.S. Navy Hydrophotometer Mk. II specifies a calibration setting of 100 percent in air.

The Secchi Disc readings in general are undoubtedly quite reliable. However, any taken when the sun was low in the sky or in the shade of the boat are probably doubtful.

In table 2 are given the remainder of the data taken with instruments other than the hydrophotometer or Secchi Disc. These data have been tabulated separately, since their meaning is not as well understood as those in table 1.

An attempt was made to deduce some sort of a regular pattern of transparency in the area covered, but no regular pattern appears to exist. This may be due to the fact that all stations were not taken simultaneously (a physical impossibility), although this is not necessarily so. Previous experience indicates that local conditions, especially in more shallow coastal regions, almost completely determine transparency conditions at any one point in space and time. Thus the turbidity will vary from one place to another, one depth to another, one time to another with seemingly constant environmental conditions. These data seem to emphasize this seemingly unpredictable nature of transparency in natural waters.

In general, however, the data do show the following expected changes in transparency:

1. An increase in transparency with distance from the coast.
2. A seasonal change in transparency, with the winter months seeming to provide the greatest turbidity.
3. An increased turbidity around heavily industrialized areas.

These three are, of course, to be expected, as outlined by Williams [35] in a set of general rules for predicting transparency based on geographical location, weather conditions, proximity of polluting sources, etc. But there are so many variables to be considered simultaneously that these generalizations are often invalid.

This information is therefore presented not as a basic scientific study to determine the causes of transparency variations, but rather to present actual conditions existing at particular points in time and space.
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Fig. 1.
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Fig. 2.
Fig. 5.
Fig. 6.
Fig. 10.
Fig. 11.
GULF OF MEXICO

Fig. 12.
### Table 1.—Equation of hydrophotometer readings to equivalent Secchi Disc readings at stations studied

A. WINTER

<table>
<thead>
<tr>
<th>Location of station</th>
<th>Description</th>
<th>Latitude (N.)</th>
<th>Longitude (W.)</th>
<th>Date</th>
<th>Time</th>
<th>Depth</th>
<th>Hydro. reading</th>
<th>Equiv. S.D.</th>
<th>Actual S.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off Ship John Light, Delaware Bay</td>
<td>39°17'42&quot;  75°23'55&quot;  3/9/48</td>
<td>1700</td>
<td>0-B</td>
<td>0</td>
<td>0</td>
<td>&lt;1.5</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Cape May Harbor</td>
<td>38°56'47&quot;  74°54'08&quot;  3/7/48</td>
<td>—</td>
<td>0-B</td>
<td>18-20</td>
<td>8.3</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Do.</td>
<td>38°56'47&quot;  74°54'08&quot;  3/1/48</td>
<td>1625</td>
<td>0</td>
<td>40</td>
<td>11.5</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>1'</td>
<td>40</td>
<td>11.5</td>
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<td>—</td>
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<td></td>
<td></td>
<td></td>
<td>2'</td>
<td>40</td>
<td>11.5</td>
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<td></td>
<td></td>
<td></td>
<td>3'</td>
<td>38</td>
<td>11.2</td>
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<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4'</td>
<td>37</td>
<td>11</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>5'</td>
<td>36</td>
<td>10.9</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
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<td></td>
<td></td>
<td></td>
<td>6'</td>
<td>30</td>
<td>10</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
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<td></td>
<td></td>
<td></td>
<td>7'</td>
<td>34</td>
<td>10.6</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>8'</td>
<td>34</td>
<td>10.6</td>
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<td>—</td>
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<td></td>
<td></td>
<td></td>
<td>9'</td>
<td>32</td>
<td>10.3</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>10'</td>
<td>32</td>
<td>10.3</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>Do.</td>
<td>38°56'47&quot;  74°54'08&quot;  2/23/48</td>
<td>—</td>
<td>8-8'</td>
<td>6.4</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>Do.</td>
<td>38°56'47&quot;  74°54'08&quot;  2/22/48</td>
<td>2130</td>
<td>4-5</td>
<td>5.2</td>
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<td>1900</td>
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<td>75°19'5&quot;</td>
<td>2/4/50</td>
<td>1900</td>
<td>6'</td>
<td>94</td>
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<td>2000</td>
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<td>94</td>
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<td>99-94</td>
<td>88-55</td>
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<td>2/6/50</td>
<td>1600</td>
<td>0-82'</td>
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<td>55</td>
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<td>1945</td>
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<td>100+</td>
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*Indicates Secchi Disc reading taken on shady side of vessel or under foggy conditions.*

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<td>LONGITUDE</td>
<td>DATE</td>
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| Santo Brazyo, Sea Buoy   | 26°04'5" | 97°06'5" | 3/21/50 | 1135 | 0-36" | 92 | 48 | 34'4"

(continued)
### Table I.—(continued)

#### A. WINTER (continued)

<table>
<thead>
<tr>
<th>Location of station</th>
<th>Description</th>
<th>Latitude (N.)</th>
<th>Longitude (W.)</th>
<th>Date</th>
<th>Time</th>
<th>Depth</th>
<th>Hydro. reading</th>
<th>Equiv. S.D.</th>
<th>Actual S.D.</th>
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<td>100+</td>
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<td>77°40 7'</td>
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<td>100+</td>
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<td>97°8'</td>
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<td>82°20'30&quot;</td>
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<td>82°20'</td>
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<td>81°30'2</td>
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SMITHSONIAN MISCELLANEOUS COLLECTIONS
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### TABLE I. (continued)

#### B. SPRING (continued)

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**SMITHSONIAN MISCELLANEOUS COLLECTIONS**

**VOL. 139**
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Whistle Buoy off Fenwick Shoal............ 38°17' 75°02.8 4/23/49 1300

Breton Bay, Potomac River................. 38°14' 76°42' 4/28/49 0815

Off Blackstone Island, Potomac River..... 38°11.5 76°44.40' 5/6/49 1100

Do. ................................... 38°11.5 76°44.40' 4/28/49 0915

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**B. SPRING (continued)**
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Bell Buoy (FLW) ZTL, off Chincoteague Inlet. 37°48' 75°18' 4/24/49 0715

Off Wolf Trap Light, Chesapeake Bay. 37°23' 76°10' 4/27/49 0130

Mouth York River, off Crab Neck. 37°11'30" 76°22' 4/27/49 0815

Horseshoe Middle Grounds, Chesapeake Bay. 37°05'35" 76°09'40" 4/26/49 1000

Do. 37°05'35" 76°09'40" 4/26/49 1000 (continued)
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<th>Longitude (W.)</th>
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(continued)
### TABLE 1.—(continued)

#### B. SPRING (continued)

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**SMITHSONIAN MISCELLANEOUS COLLECTIONS**

VOL. 139
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<th>Time</th>
<th>Depth</th>
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Rebecca Shoal, Dry Tortugas.................. 20°34'30" 82°42'20" 5/17/45 0800

C. SUMMER

Red Bay, Labrador.............................. 51°45' 56°22' 8/21/48 0920

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Riche Point, Newfoundland: 50°43'30" 57°32'30" 8/20/48 2030

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Approx. 10 miles S. of Funk Island................. 49°37' 53°11' 8/29/48 1400

Little Seldom-Come-By Harbor......................... 49°35'45" 54°13' 8/28/48 1840

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Bedford Basin, Halifax ........................................ 44°41'36" 63°38'24" 8/9/48 1200

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Halifax Harbor by Oil Dock .................................. 44°39'02" 63°34'18" 8/9/48 1020

John Bank, Nova Scotia ........................................ 44°35'39" 62°49'45" 8/10/48 0800

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Old Anthony Rock........................... 43°27'54"  70°27'54"  7/19/48  1530

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Whale Rock Ledge........................... 43°26'24"  70°17'30"  7/19/48  1415

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Portsmouth Harbor, N. H. .......................... $43^\circ4'24"$ $70^\circ43'28"$ 7/18/48 1530

Do. ............................................. $43^\circ4'24"$ $70^\circ43'28"$ 7/18/48 1830

Do. ............................................. $43^\circ4'24"$ $70^\circ43'28"$ 7/18/48 2100

York Ledge Whistle.............................. $43^\circ4'24"$ $70^\circ34'30"$ 7/19/48 1000

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South of Browns Bank

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Five-Fathom Light Ship......................... 38°48' 74°35'7 9/23/50 1300 0-24' 90-92 45 32' 71'

Off Five-Fathom Light Ship...................... 38°48' 74°35'40" 9/9/48 1126 0 100 100 71

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Off Fenwick Shoal............................ 38°17' 75°02' 7/16/47 1428

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D. AUTUMN

Swan Point, Chesapeake Bay

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Chesapeake Bay Bridge

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Cape May, Sea Buoy

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<td>54°13'00&quot;</td>
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<td>Cape Spear, bearing 217°T—distant 1.3 miles, Newfoundland</td>
<td>47°33'5</td>
<td>52°36'8</td>
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<td>46°55'58&quot;</td>
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<td>Cape Race, bearing 288°T—distant 11.3 miles, Newfoundland</td>
<td>46°38'3</td>
<td>52°59'5</td>
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<td>10 miles off Sydney Harbor, Sea Buoy, Nova Scotia</td>
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<td>Bras d'Or Lake, Nova Scotia</td>
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<td>Off Horsehead Shoals, Nova Scotia</td>
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<td>45°35'30&quot;</td>
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<td>13'1&quot;</td>
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<td>St. Pierre Bank, Nova Scotia</td>
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<td>57°33'</td>
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<td>15'3&quot;</td>
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<td>Country Harbor, Nova Scotia</td>
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<td>24'</td>
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<td>Sea Buoy off Country Harbor, Nova Scotia</td>
<td>45°02'00&quot;</td>
<td>61°32'42&quot;</td>
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<td>44°42'57&quot;</td>
<td>62°28'52&quot;</td>
<td>36'</td>
<td>44'2&quot;</td>
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<td>Bedford Basin, Halifax, Nova Scotia</td>
<td>44°41'36&quot;</td>
<td>63°38'24&quot;</td>
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<td>Halifax Harbor, Nova Scotia, by oil dock</td>
<td>44°39'02&quot;</td>
<td>63°34'18&quot;</td>
<td>36'</td>
<td>34'11&quot;</td>
<td>52'9&quot;</td>
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<td>Whst'l John Bank, Nova Scotia</td>
<td>44°35'30&quot;</td>
<td>62°49'45&quot;</td>
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<th>Letter</th>
<th>Lamp (point source)</th>
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<td>68°14'54&quot;</td>
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<td>31'</td>
<td>55'</td>
<td>6800</td>
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<td>44°11'00&quot;</td>
<td>68°01'30&quot;</td>
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<td>Off Cross Ledge, Nova Scotia</td>
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<td>36'</td>
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<th>Depth (ft)</th>
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<td>Do.</td>
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<td>68°26'42&quot;</td>
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<td>Penobscot Bay Buoy Whst'l “CIA” Ref.</td>
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Table 2.—(continued)

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<th>Longitude (W.)</th>
<th>Depth</th>
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<th>Letter</th>
<th>Lamp (point source)</th>
<th>Photometer (incident light) ft. candles</th>
<th>Par-aquometer</th>
<th>Scattering (units of scatter matter)</th>
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<th>Depth</th>
<th>Nat. lt. (Hall)</th>
<th>Letter</th>
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<th>Par-aquameter</th>
<th>Scattering (units of scatter matter)</th>
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<td>70°41'24&quot;</td>
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<td>9.2 miles off Newburyport, Mass.</td>
<td>42°50'27&quot;</td>
<td>70°36'22&quot;</td>
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<td>15'4&quot;</td>
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<tr>
<td>Off Cape Ann, Mass., Whst'l (FLO) &quot;2&quot;...</td>
<td>42°38'06&quot;</td>
<td>70°36'18&quot;</td>
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<td>11'</td>
<td>20'8&quot;</td>
<td>39'7&quot;</td>
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SMITHSONIAN MISCELLANEOUS COLLECTIONS

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<th>No. 2</th>
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<td>Off Cape Ann, Mass., 3 miles E. of (FLR) &quot;A&quot;</td>
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<td>70°39'14&quot;</td>
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<td>5'2&quot;</td>
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<td>6.6 miles E. of Boston Light Ship</td>
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<td>? S. of Brown's Bank</td>
<td>42°05'</td>
<td>65°47'</td>
<td>6'</td>
<td>42'</td>
<td>78'</td>
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<td>70°28'24&quot;</td>
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<td>9'9&quot;</td>
<td>17'10&quot;</td>
<td>37'3&quot;</td>
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<td>Buzzards Bay entrance, Cape Cod Canal</td>
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<td>70°40'35&quot;</td>
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<td>3'3&quot;</td>
<td>12'10&quot;</td>
<td>18'9&quot;</td>
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(continued)
<p>| Location of station | Description | Latitude (N.) | Longitude (W.) | Depth | Nat. lt. | Letter | Lamp (point source) | Pho- | Par- | Scattering (units of scatter matter) |
|---------------------|-------------|---------------|----------------|-------|---------|--------|---------------------|meter|      |                                 |
|                     | (FLW) &quot;5,&quot; Buzzards Bay, off New Bedford. 41°31'00&quot; 70°50'30&quot; | 0 | 6' | 30' | 54' | 5'9&quot; | 11'11&quot; | 20'5&quot; | 7900 | 13 | 14 | 22 |
|                     | (FLW) &quot;16&quot; Gong, off Edgartown Harbor, Marthas Vineyard ...................... 41°28'25&quot; 70°29'00&quot; | 0 | 6' | 24' | 42' | 6'4&quot; | 10' | 16'2&quot; | 8200 | 25 | 25 | 30 |
|                     | (FLW) &quot;16&quot; Gong, off Edgartown Harbor, Marthas Vineyard ...................... 41°28'25&quot; 70°29'00&quot; | 0 | 6' | 30' | 48' | 13'7&quot; | 21'5&quot; | 7000 | 23 | 20 | 26 |
|                     | Between Block Island and Vineyard Sound... 41°19'34&quot; 71°14'20&quot; | 0 | 6' | 30' | 72' | 5'8&quot; | 35'8&quot; | 72'5&quot; | 6 | 6 | 5 |
|                     | Harbor (Great Salt Pond), Block Island... 41°11'40&quot; 71°34'30&quot; | 0 | 6' | 6' | 6' | 0 | 12'5&quot; | 17'5&quot; | 14 | 15 |
|                     | Off Nashawena Island, Vineyard Sound..... 41°31'40&quot; 70°44'30&quot; | 0 | 6' | 30' | 48' | 14'6&quot; | 21'4&quot; | 9000 | 6 | 7 | 10 |</p>
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<td>(FLW) “2A” Bell, off Bridgehampton</td>
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<td>Anchorage W. of Sandy Hook</td>
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Table 2.—(continued)

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<th>Longitude (W.)</th>
<th>Depth</th>
<th>Nat. lt. (Ball)</th>
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<th>Lamp (point source)</th>
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Off Tilghman Point, Eastern Bay, Chesapeake Bay

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<td>76°25'</td>
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<td>76°12'25&quot;</td>
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<td>0-B</td>
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<td>76°12'25&quot;</td>
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<td>0-B</td>
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<td>0-B</td>
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<td>o</td>
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<td>74°50'18&quot;</td>
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<td>74°35'7&quot;</td>
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<td>66'</td>
<td>28&quot;</td>
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<td>75°06'15&quot;</td>
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<td>o-B</td>
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<th>Nat. lt. (Ball)</th>
<th>Letter</th>
<th>Lamp (point source)</th>
<th>Photometer (incident light) ft.-candles</th>
<th>Par.-a- ( \frac{m}{\text{eter}} )</th>
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<td>76°04’4”</td>
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<td>Off mouth Popes Creek, Potomac River</td>
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<td>38° 19'</td>
<td>76° 20'</td>
<td>0</td>
<td>11'4&quot;</td>
<td>17'6&quot;</td>
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<th>Letter</th>
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<th>Photometer (incident light) ft.-candles</th>
<th>Par- aquometer</th>
<th>Scattering (units of scatter matter)</th>
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<td>54'</td>
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<tr>
<td>Bell Buoy (FLW) &quot;2TL,&quot; off Chincoteague Inlet</td>
<td>37°48'</td>
<td>75°18'</td>
<td>0</td>
<td></td>
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<td>14'10&quot;</td>
<td>22'4&quot;</td>
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<tr>
<td>Off Wolf Trap Light, Chesapeake Bay</td>
<td>37°23'</td>
<td>76°10'</td>
<td>0</td>
<td></td>
<td>18'</td>
<td>11'10&quot;</td>
<td>19'9&quot;</td>
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<td>Off Wolf Trap, Chesapeake Bay</td>
<td>37°20'30&quot;</td>
<td>76°10'</td>
<td>0</td>
<td></td>
<td></td>
<td>17'9&quot;</td>
<td>26'1&quot;</td>
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<tr>
<td>Mouth York River, off Crab Neck</td>
<td>37°11'30&quot;</td>
<td>76°22'</td>
<td>0</td>
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<td>Thimble Shoals, Chesapeake Bay</td>
<td>37°05'36&quot;</td>
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<tr>
<td>Horseshoe Middle Grounds, Chesapeake Bay</td>
<td>37°05'35&quot;</td>
<td>76°11'5</td>
<td>0</td>
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<td>Do.</td>
<td>37°05'35&quot;</td>
<td>76°00'40&quot;</td>
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<th>Description</th>
<th>Latitude (N.)</th>
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<th>Nat. lt. (Ball)</th>
<th>Lamp (point light) ft. candles</th>
<th>Par. aquameter</th>
<th>Scattering (units of scatter matter)</th>
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<td>Horseshoe Middle Grounds, Chesapeake Bay</td>
<td>37°05'35&quot;</td>
<td>76°09'40&quot;</td>
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<td>0</td>
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<td>5700</td>
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<td>5000</td>
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<td>0</td>
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<td>Do.</td>
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<td>0</td>
<td>20'3&quot;</td>
<td>28'4&quot;</td>
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<td>24'</td>
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<td>Do.</td>
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<td>do.</td>
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<td>19'5&quot;</td>
<td>26'9&quot;</td>
<td>8</td>
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<tr>
<td>Do.</td>
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<td>do.</td>
<td>0</td>
<td>52&quot;</td>
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<td>Chesapeake Light Ship</td>
<td>37°</td>
<td>75°7</td>
<td>0</td>
<td>6'</td>
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<td>3</td>
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<td>Do.</td>
<td>do.</td>
<td>do.</td>
<td>30'</td>
<td>5'</td>
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<td>3</td>
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<td></td>
<td></td>
<td></td>
<td>54'</td>
<td>0</td>
<td>11</td>
<td>4</td>
<td></td>
</tr>
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<td>30'</td>
<td>48'</td>
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Table 2.—(continued)
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<th>Place</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Bearing</th>
<th>Distance</th>
<th>Depth</th>
<th>1</th>
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<th>3</th>
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<tbody>
<tr>
<td>Little Creek, Va., Amphit East Annex Training Base, Pier 1</td>
<td>36°54'39&quot;</td>
<td>76°10'55&quot;</td>
<td>0</td>
<td>30'</td>
<td>66'</td>
<td>7200</td>
<td>62&quot;</td>
<td>5</td>
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<tr>
<td>East of Currituck Sound, 23½ miles</td>
<td>36°17'5&quot;</td>
<td>75°19'5&quot;</td>
<td>0</td>
<td>43'</td>
<td>800</td>
<td>20'</td>
<td>2½</td>
<td>4</td>
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<tr>
<td>East of Chicamacomico C. G. Station, 13½ miles</td>
<td>35°36'6&quot;</td>
<td>75°11'5&quot;</td>
<td>0</td>
<td>43'</td>
<td>96&quot;</td>
<td>1</td>
<td>1</td>
<td>1</td>
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<tr>
<td>Pamlico River</td>
<td>35°24'0&quot;</td>
<td>76°35'0&quot;</td>
<td>0</td>
<td>96&quot;</td>
<td>5800</td>
<td>1½</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Off Cape Hatteras, Cape Hatteras Lighthouse, bearing 263°T—distant 8 miles</td>
<td>35°16'7½&quot;</td>
<td>75°22'7&quot;</td>
<td>0</td>
<td>34'</td>
<td>2400</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Off Cape Hatteras (QK FLW) R &amp; B Whst'l, bearing 090°T—distant 2 miles</td>
<td>35°08'0&quot;</td>
<td>75°20'5&quot;</td>
<td>0</td>
<td>4000</td>
<td>6400</td>
<td>5800</td>
<td>14&quot;</td>
<td>10</td>
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<tr>
<td>Off Ocracoke Inlet</td>
<td>34°58'0&quot;</td>
<td>75°57'5&quot;</td>
<td>0</td>
<td>7000</td>
<td>6400</td>
<td>14&quot;</td>
<td>10</td>
<td>5</td>
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<tr>
<td>Off Cape Lookout</td>
<td>34°32'5&quot;</td>
<td>76°19'0&quot;</td>
<td>0</td>
<td>2400</td>
<td>6400</td>
<td>14&quot;</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>Moorehead City, N. C. Coast</td>
<td>34°42'0&quot;</td>
<td>76°40'0&quot;</td>
<td>0</td>
<td>2400</td>
<td>6400</td>
<td>14&quot;</td>
<td>10</td>
<td>5</td>
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<tr>
<td>Wreck Buoy (QK FLR) “W2” dis. ½ mile</td>
<td>33°57'5&quot;</td>
<td>77°02'0&quot;</td>
<td>0</td>
<td>2400</td>
<td>6400</td>
<td>14&quot;</td>
<td>10</td>
<td>5</td>
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<tr>
<td>Off Frying Pan Light Ship, Edge of 10-Fathom Curve</td>
<td>33°27'2&quot;</td>
<td>77°35'5&quot;</td>
<td>0</td>
<td>2400</td>
<td>6400</td>
<td>14&quot;</td>
<td>10</td>
<td>5</td>
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<tr>
<td>Frying Pan Light Ship, bearing 246°T—distant 34.2 miles</td>
<td>33°10'34&quot;</td>
<td>78°10'6&quot;</td>
<td>0</td>
<td>5800</td>
<td>5800</td>
<td>14&quot;</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>Off Cape Romain (FLW) “2CR” Whst'l, bearing 180°T—distant 0.2 mile</td>
<td>32°59'0&quot;</td>
<td>78°53'5&quot;</td>
<td>0</td>
<td>125</td>
<td>1100</td>
<td>14&quot;</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>Charleston area, off Fort Sumter</td>
<td>32°45'30&quot;</td>
<td>79°52'0&quot;</td>
<td>0</td>
<td>125</td>
<td>1100</td>
<td>14&quot;</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>Do</td>
<td>do</td>
<td>do</td>
<td>do</td>
<td>do</td>
<td>do</td>
<td>14&quot;</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>Charleston, S. C., Harbor</td>
<td>32°45'2&quot;</td>
<td>79°54'0&quot;</td>
<td>0</td>
<td>125</td>
<td>1100</td>
<td>14&quot;</td>
<td>10</td>
<td>5</td>
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<tr>
<td>Charleston, S. C., off entrance</td>
<td>32°42'0&quot;</td>
<td>79°46'0&quot;</td>
<td>0</td>
<td>250</td>
<td>68&quot;</td>
<td>5</td>
<td>3</td>
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<tr>
<td>Charleston Sea Buoy No. 2C</td>
<td>32°40'30&quot;</td>
<td>79°43'0&quot;</td>
<td>0</td>
<td>250</td>
<td>68&quot;</td>
<td>5</td>
<td>3</td>
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<tr>
<td>East of Savannah, Ga.</td>
<td>32°06'0&quot;</td>
<td>79°54'0&quot;</td>
<td>0</td>
<td>250</td>
<td>68&quot;</td>
<td>5</td>
<td>3</td>
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<tr>
<td>Savannah area, Savannah Light Ship</td>
<td>31°57'0&quot;</td>
<td>80°40'0&quot;</td>
<td>0</td>
<td>1000</td>
<td>13&quot;</td>
<td>1½</td>
<td>1</td>
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<td>Off Savannah Light Ship</td>
<td>31°53'5&quot;</td>
<td>80°25'0&quot;</td>
<td>0</td>
<td>1000</td>
<td>13&quot;</td>
<td>1½</td>
<td>1</td>
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<td>East of Cumberland Island, Ga.</td>
<td>30°54'0&quot;</td>
<td>80°41'5&quot;</td>
<td>0</td>
<td>1000</td>
<td>13&quot;</td>
<td>1½</td>
<td>1</td>
<td>1</td>
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<tr>
<td>Off St. Johns Light Ship</td>
<td>30°27'5&quot;</td>
<td>81°06'5&quot;</td>
<td>0</td>
<td>1000</td>
<td>13&quot;</td>
<td>1½</td>
<td>1</td>
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<thead>
<tr>
<th>Location of station</th>
<th>Description</th>
<th>Latitude (N.)</th>
<th>Longitude (W.)</th>
<th>Depth</th>
<th>Nat. lt. (Ball)</th>
<th>Letter</th>
<th>Lamp (point source)</th>
<th>Photometer (incident light) ft. candles</th>
<th>Par - aquameter</th>
<th>Scattering (units of scatter matter)</th>
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<tbody>
<tr>
<td>Dockside, Pensacola, Fla...</td>
<td>30°24'</td>
<td>87°13'</td>
<td>0</td>
<td>0</td>
<td>14'</td>
<td>1 1/2</td>
<td>3200</td>
<td>6'8&quot;</td>
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<td>Mayport, Fla., dockside...</td>
<td>30°23.5'</td>
<td>81°26.5'</td>
<td>0</td>
<td>0</td>
<td>4'</td>
<td>1 1/2</td>
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<td>4'2&quot;</td>
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<td>St. Johns River...</td>
<td>30°19'</td>
<td>81°38'</td>
<td>0</td>
<td>0</td>
<td>18'</td>
<td></td>
<td></td>
<td>6'2&quot;</td>
<td>3</td>
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<td>SE. of Pensacola, Fla...</td>
<td>30°12.6'</td>
<td>87°10.2'</td>
<td>25'</td>
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<td>Southward of Mobile, Ala...</td>
<td>29°34.5'</td>
<td>88°13.5'</td>
<td>0-78'</td>
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<td>14'10&quot;</td>
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<td>Galveston, Texas, Sea Buoy, 7/10 mile NE. (FLW) &quot;1&quot; Whst'l...</td>
<td>29°19'</td>
<td>94°39'</td>
<td>0</td>
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<td>6200</td>
<td>36&quot;</td>
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<td>Westward Swanee Sound...</td>
<td>29°16.7'</td>
<td>83°42.3'</td>
<td>0</td>
<td>0-B</td>
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<td></td>
<td></td>
<td>4000</td>
<td>&gt;22'</td>
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<td>Southward of Cape San Blas...</td>
<td>29°14'</td>
<td>85°24.4'</td>
<td>0</td>
<td>30'</td>
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<td></td>
<td></td>
<td>3000</td>
<td>&gt;22'</td>
<td>1 1/4</td>
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<td>Heald Bank off Galveston, Tex., about 0.8 mile E. of (OCCW) &quot;2&quot; Whst'l...</td>
<td>29°05'</td>
<td>94°12.5'</td>
<td>0</td>
<td>20'</td>
<td></td>
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<td>7000</td>
<td>17.3&quot;</td>
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<td>Bay NE. of Mississippi entrance...</td>
<td>29°02'</td>
<td>89°42.3'</td>
<td>12'</td>
<td>30'</td>
<td></td>
<td></td>
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<td>9'6&quot;</td>
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<td>Gulf of Mexico...</td>
<td>28°49'</td>
<td>92°32'</td>
<td>0</td>
<td>20'</td>
<td></td>
<td></td>
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<td>14'</td>
<td>1 1/4</td>
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<td>Off Mississippi entrance...</td>
<td>28°48.5'</td>
<td>89°08'</td>
<td>6'</td>
<td>90'</td>
<td></td>
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<td>17'2&quot;</td>
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<td>Old Mississippi Canyon, off False Cape, Fla...</td>
<td>28°38'</td>
<td>89°56.5'</td>
<td>0</td>
<td>80'</td>
<td></td>
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<td>18'8&quot;</td>
<td>1 1/4</td>
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<td></td>
<td></td>
<td>6'1&quot;</td>
<td>&gt;22'</td>
<td></td>
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<td>Location</td>
<td>Latitude</td>
<td>Longitude</td>
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<td>Bottom</td>
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<tr>
<td>Hetzel Shoal Buoy (FLW) “8” Whst'1 close by</td>
<td>28° 38'</td>
<td>80° 20'</td>
<td>0</td>
<td>6'11&quot;</td>
<td>½</td>
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<tr>
<td>15-Fathom Curve, off Freeport, Tex.</td>
<td>28° 37'</td>
<td>95° 01'</td>
<td>0</td>
<td>4'5&quot;</td>
<td>4</td>
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<tr>
<td>10-Fathom Curve, off Ship Shoal (FLW) “2” Whst'1 close by</td>
<td>28° 37'</td>
<td>90° 59'</td>
<td>0</td>
<td>17'</td>
<td>½</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Tampa Bay, mouth Hillsboro Bay, off NW. end of Quarantine Anchorage</td>
<td>27° 42'5'</td>
<td>82° 30'5'</td>
<td>0</td>
<td>5'600</td>
<td>1</td>
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<td>91°50'</td>
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No. 10 Water Transparency—Williams, Johnson, Dyer