



# **SOUTH BAY OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT**

## **SOUTH BAY WATER RECLAMATION PLANT**

NPDES Permit No. CA0109045  
SDRWQCB Order No. R9-2013-0006

## **FEBRUARY 2021**

Environmental Monitoring and Technical Services  
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March 31, 2021

Mr. David W. Gibson, Executive Officer  
California Regional Water Quality Control Board  
San Diego Region  
2375 Northside Drive, Suite 100  
San Diego, CA 92108

Attention: POTW Compliance Unit

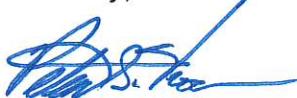
Dear Mr. Gibson:

Enclosed is the February 2021 Monthly Receiving Waters Monitoring Report for the South Bay Ocean Outfall, South Bay Water Reclamation Plant as required per Order No. R9-2013-0006 as amended by Order Nos. R9-2014-0071 and R9-2017-0023, NPDES Permit No. CA0109045.

This report includes raw ocean monitoring data and summaries of water quality parameters and ocean conditions measured during the month for the South Bay outfall region. Also included are summaries of compliance with the bacterial water-contact standards specified in the California Ocean Plan. These data are also presented in the monthly report submitted by the International Boundary and Water Commission, U.S. Section for discharge from the South Bay International Wastewater Treatment Plant (Order No. R9-2014-0009 as amended by Order Nos. R9-2014-0094, R9-2017-0024, R9-2019-0012, NPDES Permit No. CA0108928).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,



Peter S. Vroom, Ph.D. Deputy Director  
Public Utilities Department

PV/rk

cc: U.S. Environmental Protection Agency, Region 9



## INTRODUCTION

Monthly reports of water quality and ocean conditions from Playa Blanco, Mexico to Coronado, USA are submitted to the San Diego Regional Water Quality Control Board and U.S. EPA Region 9 in accordance with Order No. R9-2013-0006 as amended by Order Nos. R9-2014-0071 and R9-2017-0023, NPDES Permit No. CA0109045, for the South Bay Water Reclamation Plant (SBWRP), South Bay Ocean Outfall (SBOO). This report includes receiving waters monitoring data collected from all shore, kelp and offshore stations specified in the above order. Data for influent and effluent monitoring activities for the SBWRP are presented in separate reports.

## MATERIALS AND METHODS

### ***Shore Stations***

Water quality monitoring was conducted at 11 stations located along the shore from Playa Blanca, Mexico to Coronado, USA (see station locations map). Three sites are located south of the international border (stations S0, S2, S3), while eight sites are in the United States (stations S4–S6 and S8–S12).

Seawater samples were collected from the surf zone at each station on a weekly basis. These samples were subsequently transported to the City's Marine Microbiology Laboratory and analyzed for the presence of total coliform, fecal coliform, and *Enterococcus* bacteria. Visual observations of water color and clarity, surf height, human or animal activity, and weather conditions were recorded at the time of sample collection. Wind speed and direction were measured using a hand-held anemometer with a compass.

### ***Kelp Bed Stations***

Seven kelp bed and other nearshore stations (I19, I24, I25, I26, I32, I39, I40; collectively referred to as "kelp" stations herein) were sampled four times during the month according to NPDES permit specifications. Six stations (I19, I24, I25, I26, I32, I40) are located along the 9-m depth contour, and one (I39) is located along the 18-m depth contour. Three of these stations, I25, I26, and I39, were selected based on their proximity to suitable substrates for the Imperial Beach kelp bed (see station locations map); however, this kelp bed has been historically transient and variable in terms of size and density. Thus, these three stations are only occasionally located within an area where kelp is actually found.

The seven kelp stations are sampled on a weekly basis during the month. Routine monitoring at each kelp site consists of collecting seawater samples at three discrete depths for bacteriological analyses (total coliforms, fecal coliforms, and *Enterococcus* bacteria) and generating water column profiles of various physical/chemical parameters, including water temperature, salinity, density, dissolved oxygen, pH, chlorophyll *a*, and transmissivity. Visual observations of weather and water conditions are also recorded at all stations.

Seawater samples at the kelp bed stations are primarily collected using a CTD-integrated rosette sampler with Niskin bottles. Aliquots for bacteriological analyses were drawn from these bottles into sterile sample bottles for processing at the City's Marine Microbiology Laboratory. Water column profiles of the various physical/chemical parameters were taken using a CTD. The CTD collected these physical/chemical data at a rate  $\geq$  4 scans per second. The data were then internally averaged using the CTD proprietary software, Seasoft, to create water column profiles equivalent

to one reading per meter. Additionally, CTD profile data for each water sample depth are presented with the bacteriological data.

### ***Offshore Stations***

Quarterly offshore water quality sampling is typically conducted over three days during February, May, August, and November for a total of 40 stations during each month (see station locations map). These offshore stations (I1–I40) are arranged in a grid surrounding the discharge site, and are generally located along the 9, 19, 28, 38, and 55-m depth contours. The seven offshore sites designated as kelp bed stations (described above) are included as part of the monthly offshore water quality sampling, however the data from these seven stations are reported within the kelp bed station section of the report with the other four days of kelp bed water quality sampling. Monitoring at all sites included measurements of various physical/chemical parameters, including water temperature, salinity, density, dissolved oxygen, pH, chlorophyll *a*, transmissivity, and chromomorphic dissolved organic matter (CDOM). Visual observations of weather and water conditions were also recorded at all stations. Seawater samples for the analysis of indicator bacteria, suspended solids, and oil and grease concentrations were collected at 28 of the stations.

At these offshore stations, water samples for bacteriological analyses were collected using a rosette sampler with Niskin bottles. Measurements of the physical/chemical parameters listed above were taken using a Sea-Bird CTD. Additionally, CTD profile data for depths closest to those at which bacteriological samples were collected were extracted from the CTD profiles and are presented with the bacteriological data.

### ***Bacteriological Reporting and Quality Assurance***

Estimated values for bacteriological analyses are denoted by greater than (>), less than (<), or estimated (e) qualifiers and result from plates with colony counts above or below the permissible counting limits established in Bordner et al. (1978)<sup>1</sup>. This document defines membrane filtration limits of 20–80 colonies per plate for total coliforms and 20–60 colonies per plate for fecal coliforms and *Enterococcus*. No Data (ND) is reported if plate counts from all dilutions have a total colony count of >200 per plate.

Results of the bacteriological analysis of seawater samples collected from each of the shore, kelp bed, and offshore stations located within State waters are assessed relative to the geometric mean and single sample maximum water-contact standards specified in the California Ocean Plan (Ocean Plan). The seven standards are defined as follows:

**30-day Geometric Mean:** The following standards are based on the geometric mean of the five most recent samples from each site.

- (1) Total coliform density shall not exceed 1000 CFU/100 mL;
- (2) Fecal coliform density shall not exceed 200 CFU/100 mL;
- (3) *Enterococcus* density shall not exceed 35 CFU/100 mL.

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<sup>1</sup> Bordner, R., J. Winter, and P. Scarpino (eds.). (1978). Microbiological Methods for Monitoring the Environment: Water and Wastes, EPA Research and Development, EPA-600/8-78-017. 337 p.

### Single Sample Maximums:

- (1) Total coliform density shall not exceed 10,000 CFU/100 mL;
- (2) Fecal coliform density shall not exceed 400 CFU/100 mL;
- (3) *Enterococcus* density shall not exceed 104 CFU/100 mL;
- (4) Total coliform density shall not exceed 1,000 CFU/100 mL when the fecal coliform/total coliform ratio exceeds 0.1.

Compliance with the seven Ocean Plan standards are summarized below for the stations located in USA waters. In contrast, no such compliance summaries are presented for the three shore stations located in Mexican waters south of the International Border (i.e., S0, S2, and S3) since this region is not subject to the Ocean Plan standards.

Quality controls of bacteriological data include laboratory and field duplicate analyses. Laboratory duplicates are performed on approximately 10% of the water quality samples, while field duplicates are performed six times a month (see Appendix A). Laboratory duplicates represent two aliquots of the original sample that are split in the laboratory and analyzed by the same analyst using identical procedures within the same analytical run. The results of these analyses provide a measure of intra-analyst precision. In contrast, field duplicates represent two separate samples collected at the same time from the same site, which are handled under identical circumstances and treated exactly the same throughout field and lab procedures. The results of these analyses provide a measure of precision associated with sample collection, preservation, storage, and lab procedures. The sign test (see Gilbert, 1987<sup>2</sup>) is used to statistically compare both the results from the laboratory duplicates, as well as the results from the field duplicates. These data will be further analyzed in the City's 2021 Quality Assurance Report, which will be completed in March 2022.

## SUMMARY OF RESULTS

As of October 2020, new 2019 Ocean Plan Water Quality Objectives are included for a six-week rolling geometric mean of *Enterococcus* density, which shall not exceed 30 cfu/100 ml, and a Statistical Threshold Value (STV) for *Enterococcus*, which shall not exceed 110 cfu/100 ml for more than 10% of samples per month (see Appendix B).

### ➤ Shoreline Water Quality Sampling

- Due to site access restrictions in Mexico, the South Bay shoreline sampling is typically carried out on the same day each week (i.e., Tuesday) to coordinate sampling between the Mexican and USA based stations. Seawater samples at the three shore stations located south of the USA/Mexico border (i.e., stations S0, S2 and S3) are presently collected by the Comisión Internacional de Límites y Aguas (CILA) and transported to the USIBWC for subsequent delivery to the City's Marine Microbiology Lab, while samples from the eight stations located in USA waters are sampled by City staff.
- During February, six of the eight shore stations located north of the border were out of compliance with the 2015 California Ocean Plan (Ocean Plan) water contact standards on one or more days as follows:

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2 Gilbert, R.O. (1987). Statistical Methods for Environmental Pollution Monitoring. Van Nostrand Reinhold Co., New York.

- The 30-day geometric mean standards for total coliform, fecal coliform and *Enterococcus* were exceeded at stations S4, S5, and S10.
  - The 30-day geometric mean standard for *Enterococcus* was also exceeded at station S11.
  - The single sample maximum (SSM) standard for total coliform was exceeded at stations S4, S5, and S10.
  - The SSM standard for fecal coliform was exceeded at stations S4, S5, S6, S8, S10, and S11.
  - The SSM standard for *Enterococcus* was exceeded at stations S4, S5, S6, S8, S10, and S11.
  - The SSM standard that states total coliform densities shall not exceed 1000 CFU/100 mL when the fecal:total ratio exceeds 0.1 was exceeded at stations S4, S5, S6, S8, S10, and S11.
  - Per permit requirements, resamples were collected in response to these SSM exceedances (see Table 2.8 for details).
- Although the Ocean Plan standards do not apply to these stations, bacteria densities exceeded one or more benchmark levels (i.e., total coliforms >10,000 CFU/100mL; fecal coliforms >400 CFU/100 mL; *Enterococcus* >104 CFU/100 mL; total >1000 CFU/100 mL & F:T ratio >0.1) in the seawater samples collected at stations S0, S2, and S3 on one or more days during February.
- Notable observations included a sewage-like odor at stations S4, S5, S10, and S11 on one or more days during February.
- Historical analyses of Ocean Plan compliance rates for the South Bay outfall shore and kelp monitoring stations, combined with the results of satellite imagery data, suggest that outflows from the Tijuana River and Los Buenos Creek, as well as surface runoff during or after rain events (storms), are likely to be the cause of impacted water quality along the shore and in near shore recreational waters in the South Bay region. See the City of San Diego's most recent *Biennial Receiving Waters Monitoring and Assessment Report for the Point Loma and South Bay Ocean Outfalls* for details (<https://www.sandiego.gov/public-utilities/sustainability/ocean-monitoring/reports>).

## ➤ Kelp Bed Water Quality Sampling

- The seven kelp bed water quality stations (I19, I24, I25, I26, I32, I39, I40) were sampled on February 1, 8, 18, and 22.
- During February, six of seven kelp bed stations were out of compliance with various Ocean Plan water contact standards on one or more days as follows:
  - The 30-day geometric mean standards for total coliform and fecal coliform were exceeded at stations I19 and I40.
  - The 30-day geometric mean standard for *Enterococcus* was exceeded at stations I19, I24, I25, and I40.
  - The SSM standard for total coliform was exceeded at stations I19 and I40.
  - The SSM standards for fecal coliform and *Enterococcus* were exceeded at stations I19, I24, I25, I26, I39, and I40.
  - The SSM standard that states total coliform density shall not exceed 1,000 per 100 mL when the fecal coliform/total coliform ratio exceeds 0.1 was exceeded at stations I19, I24, I25, I26, I39, and I40.

- Water column temperatures ranged from 12.34 to 15.14°C. The difference between surface and bottom waters ranged from 0.23 to 1.92°C.
- Concentrations of chlorophyll *a* ranged from 1.05 to 23.48 µg/L at the kelp bed stations.
- Nothing of sewage origin was observed at any of these kelp stations.

➤ **Offshore Water Quality Sampling**

- Quarterly offshore water quality sampling was conducted over three days during the month (i.e., February 9, 10, 11).
- During February, one of the offshore stations located within State jurisdictional waters (i.e., I12, I14, I16, I18, I22, I23, I33, I36–I38) was out of compliance with the relevant Ocean Plan single sample maximum standards on one or more days as follows:
  - The SSM standards for total coliform, fecal coliform and *Enterococcus* were exceeded at station I23.
  - The SSM standard that states total coliform density shall not exceed 1,000 per 100 mL when the fecal coliform/total coliform ratio exceeds 0.1 was also exceeded at station I23.
- Although the Ocean Plan standards do not apply to these stations, bacteria densities exceeded one or more benchmark levels (i.e., total coliforms >10,000 CFU/100mL; fecal coliforms >400 CFU/100 mL; *Enterococcus* >104 CFU/100 mL; total >1000 CFU/100 mL & F:T ratio >0.1) in the seawater samples collected stations I11 and I5 on one or more days during February.
- Water column temperatures ranged from 11.27 to 14.88°C at the offshore sites. The difference between surface and bottom waters ranged from 0.45 to 3.12°C.
- Chlorophyll *a* concentrations ranged from 0.31 to 13.66 µg/L at the offshore sites.
- CDOM data are available upon request.
- Nothing of sewage origin was observed at any of the offshore stations.

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## TABLES AND FIGURES





**Figure 1.1** Station Map



# Shore Stations



**Table 2.1**

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (\*). Values >1,000 CFU/100 mL exceed the standard.

<b>Date</b>	<b>S4</b>	<b>S5</b>	<b>S6</b>	<b>S8</b>	<b>S9</b>	<b>S10</b>	<b>S11</b>	<b>S12</b>
01 Feb 2021	1737	6898	19	4	6	5014	30	8
02 Feb 2021	2293	5765	22	4	9	5572	38	9
03 Feb 2021	2293	5765	22	4	9	5572	38	9
04 Feb 2021	2293	5254	34	4	13	5572	45	13
05 Feb 2021	2293	5254	34	4	13	5572	45	13
06 Feb 2021	2134	4700	34	4	13	5428	45	13
07 Feb 2021	1600	4102	34	4	13	4872	45	13
08 Feb 2021	1910	4102	34	4	13	5363	45	13
09 Feb 2021	1011	4102	78	17	14	5363	80	29
10 Feb 2021	1011	4102	78	17	14	5363	80	29
11 Feb 2021	1214	3430	239	23	13	7323	112	47
12 Feb 2021	1214	3430	239	23	13	7323	112	47
13 Feb 2021	1214	3381	375	23	13	7278	112	47
14 Feb 2021	1214	3381	375	23	13	7278	112	47
15 Feb 2021	1214	3381	375	23	13	7732	112	47
16 Feb 2021	1676	3924	510	23	14	8145	265	25
17 Feb 2021	1676	3924	510	23	14	8145	265	25
18 Feb 2021	3865	6082	510	37	24	13129	350	26
19 Feb 2021	3865	6082	510	37	24	13129	350	26
20 Feb 2021	4526	6641	510	37	24	13303	350	26
21 Feb 2021	4526	6641	510	37	24	13303	350	26
22 Feb 2021	4671	7146	510	37	24	13458	350	26
23 Feb 2021	5224	7603	340	23	23	12567	217	39
24 Feb 2021	5224	7603	340	23	23	12567	217	39
25 Feb 2021	5794	7208	367	23	24	10008	221	47
26 Feb 2021	5794	7208	367	23	24	10008	221	47
27 Feb 2021	5794	5521	367	23	24	9718	221	47
28 Feb 2021	5794	5521	367	23	24	9718	221	47

\* Geometric mean calculated using n<5

**Table 2.2**

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (\*). Values >200 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2021	600	3010	5	4	3	1631	2	2
02 Feb 2021	873	2160	5	5	3	1955	3	2
03 Feb 2021	873	2160	5	5	3	1955	3	2
04 Feb 2021	873	1848	6	5	3	1955	3	2
05 Feb 2021	873	1848	6	5	3	1955	3	2
06 Feb 2021	705	1533	6	5	3	1701	3	2
07 Feb 2021	495	1219	6	5	3	1399	3	2
08 Feb 2021	513	1219	6	5	3	1481	3	2
09 Feb 2021	243	1219	15	12	3	1467	7	6
10 Feb 2021	243	1219	15	12	3	1467	7	6
11 Feb 2021	342	931	31	7	3	1984	10	7
12 Feb 2021	342	931	31	7	3	1984	10	7
13 Feb 2021	342	850	45	7	3	2176	10	7
14 Feb 2021	342	850	45	7	3	2176	10	7
15 Feb 2021	342	850	45	7	3	2446	10	7
16 Feb 2021	534	1015	67	7	3	2741	27	6
17 Feb 2021	534	1015	67	7	3	2741	27	6
18 Feb 2021	1294	1623	74	8	3	5102	43	7
19 Feb 2021	1294	1623	74	8	3	5102	43	7
20 Feb 2021	1658	1947	74	8	3	5401	43	7
21 Feb 2021	1658	1947	74	8	3	5401	43	7
22 Feb 2021	1771	2265	74	8	3	5677	43	7
23 Feb 2021	1966	2575	51	7	3	5028	32	6
24 Feb 2021	1966	2575	51	7	3	5028	32	6
25 Feb 2021	2106	2408	62	10	2	4216	56	9
26 Feb 2021	2106	2408	62	10	2	4216	56	9
27 Feb 2021	2106	2065	62	10	2	4257	56	9
28 Feb 2021	2106	2065	62	10	2	4257	56	9

\* Geometric mean calculated using n<5

**Table 2.3**

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (\*). Values >35 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2021	285	1511	5	4	8	1167	7	2
02 Feb 2021	409	1167	6	4	6	1443	8	3
03 Feb 2021	409	1167	6	4	6	1443	8	3
04 Feb 2021	450	1122	8	4	8	1420	9	3
05 Feb 2021	450	1122	8	4	8	1420	9	3
06 Feb 2021	363	885	8	4	8	1096	9	3
07 Feb 2021	299	663	8	4	8	863	9	3
08 Feb 2021	291	663	8	4	8	824	9	3
09 Feb 2021	174	663	14	11	6	774	14	6
10 Feb 2021	174	663	14	11	6	774	14	6
11 Feb 2021	241	524	15	8	4	987	17	8
12 Feb 2021	241	524	15	8	4	987	17	8
13 Feb 2021	241	501	15	8	4	974	17	8
14 Feb 2021	241	501	15	8	4	974	17	8
15 Feb 2021	241	501	15	8	4	1067	17	8
16 Feb 2021	383	546	22	7	4	1154	30	6
17 Feb 2021	383	546	22	7	4	1154	30	6
18 Feb 2021	868	982	27	10	4	1754	40	8
19 Feb 2021	868	982	27	10	4	1754	40	8
20 Feb 2021	929	1233	27	10	4	1781	40	8
21 Feb 2021	929	1233	27	10	4	1781	40	8
22 Feb 2021	992	1491	27	10	4	2006	40	8
23 Feb 2021	993	1750	18	7	4	1849	29	6
24 Feb 2021	993	1750	18	7	4	1849	29	6
25 Feb 2021	1184	1499	21	7	2	1728	27	6
26 Feb 2021	1184	1499	21	7	2	1728	27	6
27 Feb 2021	1072	1559	21	7	2	1500	27	6
28 Feb 2021	1072	1559	21	7	2	1500	27	6

\* Geometric mean calculated using n<5

**Table 2.4**

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2021	ns	E	ns	ns	ns	E	ns	ns
02 Feb 2021	E	IC	IC	IC	IC	E	IC	IC
04 Feb 2021	E	ns	ns	ns	ns	E	ns	ns
06 Feb 2021	IC	ns	ns	ns	ns	E	ns	ns
08 Feb 2021	IC	ns	ns	ns	ns	E	ns	ns
09 Feb 2021	IC	E	IC	IC	IC	E	IC	IC
11 Feb 2021	ns	IC	IC	IC	ns	E	ns	ns
13 Feb 2021	ns	IC	IC	ns	ns	IC	ns	ns
15 Feb 2021	ns	ns	ns	ns	ns	E	ns	ns
16 Feb 2021	E	E	IC	IC	IC	E	IC	IC
18 Feb 2021	E	E	IC	ns	ns	E	IC	ns
20 Feb 2021	E	E	ns	ns	ns	E	ns	ns
22 Feb 2021	IC	E	ns	ns	ns	E	ns	ns
23 Feb 2021	E	E	IC	IC	IC	IC	IC	IC
25 Feb 2021	IC	IC	ns	ns	ns	IC	ns	ns
27 Feb 2021	ns	IC	ns	ns	ns	ns	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 2.5**

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2021	ns	E	ns	ns	ns	E	ns	ns
02 Feb 2021	E	IC	IC	IC	IC	E	IC	IC
04 Feb 2021	E	ns	ns	ns	ns	E	ns	ns
06 Feb 2021	E	ns	ns	ns	ns	E	ns	ns
08 Feb 2021	E	ns	ns	ns	ns	E	ns	ns
09 Feb 2021	IC	E	E	E	IC	E	IC	IC
11 Feb 2021	ns	E	IC	IC	ns	E	ns	ns
13 Feb 2021	ns	IC	IC	ns	ns	E	ns	ns
15 Feb 2021	ns	ns	ns	ns	ns	E	ns	ns
16 Feb 2021	E	E	E	IC	IC	E	E	IC
18 Feb 2021	E	E	IC	ns	ns	E	IC	ns
20 Feb 2021	E	E	ns	ns	ns	E	ns	ns
22 Feb 2021	E	E	ns	ns	ns	E	ns	ns
23 Feb 2021	E	E	IC	IC	IC	E	IC	IC
25 Feb 2021	IC	E	ns	ns	ns	IC	ns	ns
27 Feb 2021	ns	IC	ns	ns	ns	ns	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 2.6**

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2021	ns	E	ns	ns	ns	E	ns	ns
02 Feb 2021	E	IC	IC	IC	IC	E	IC	IC
04 Feb 2021	E	ns	ns	ns	ns	E	ns	ns
06 Feb 2021	E	ns	ns	ns	ns	E	ns	ns
08 Feb 2021	E	ns	ns	ns	ns	E	ns	ns
09 Feb 2021	IC	E	E	E	IC	E	IC	IC
11 Feb 2021	ns	E	IC	IC	ns	E	ns	ns
13 Feb 2021	ns	IC	ns	ns	ns	E	ns	ns
15 Feb 2021	ns	ns	ns	ns	ns	E	ns	ns
16 Feb 2021	E	E	E	IC	IC	E	E	IC
18 Feb 2021	E	E	IC	ns	ns	E	IC	ns
20 Feb 2021	E	E	ns	ns	ns	E	ns	ns
22 Feb 2021	E	E	ns	ns	ns	E	ns	ns
23 Feb 2021	E	E	IC	IC	IC	E	IC	IC
25 Feb 2021	E	E	ns	ns	ns	E	ns	ns
27 Feb 2021	E	E	ns	ns	ns	IC	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 2.7**

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2021	ns	E	ns	ns	ns	E	ns	ns
02 Feb 2021	E	IC	IC	IC	IC	E	IC	IC
04 Feb 2021	E	ns	ns	ns	ns	E	ns	ns
06 Feb 2021	E	ns	ns	ns	ns	E	ns	ns
08 Feb 2021	IC	ns	ns	ns	ns	E	ns	ns
09 Feb 2021	IC	E	E	E	IC	E	IC	IC
11 Feb 2021	ns	E	E	IC	ns	IC	ns	ns
13 Feb 2021	ns	IC	IC	ns	ns	E	ns	ns
15 Feb 2021	ns	ns	ns	ns	ns	E	ns	ns
16 Feb 2021	E	E	E	IC	IC	E	E	IC
18 Feb 2021	E	E	IC	ns	ns	E	IC	ns
20 Feb 2021	E	E	ns	ns	ns	E	ns	ns
22 Feb 2021	E	E	ns	ns	ns	E	ns	ns
23 Feb 2021	E	E	IC	IC	IC	E	IC	IC
25 Feb 2021	IC	E	ns	ns	ns	IC	ns	ns
27 Feb 2021	ns	IC	ns	ns	ns	ns	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 2.8**

Summary of water quality parameters at the SBOO shore stations for each sample date. Densities of total coliform (Total), fecal coliform (Fecal), and *Enterococcus* (Enter) are reported as CFU/100 mL. The fecal:total coliform ratio (F:T) is unitless. Comments follow the data summary.

Station	Date	Time	Total	Fecal	Enter	F:T
S0	02 Feb 2021	1140	>16000	2200e	2800e	0.14
S0	09 Feb 2021	1025	1800e	680	400	0.38
S0	16 Feb 2021	910	>16000	13000e	>12000	0.81
S0	23 Feb 2021	910	>16000	>12000	3400e	0.75
S2	02 Feb 2021	1335	12000	1600e	280e	0.13
S2	09 Feb 2021	1146	780	80	380e	0.10
S2	16 Feb 2021	1020	>16000	5800	520	0.36
S2	23 Feb 2021	1005	20e	10e	30e	0.50
S3	02 Feb 2021	1240	>16000	6000	560	0.38
S3	09 Feb 2021	1130	240e	38e	88	0.16
S3	16 Feb 2021	950	>16000	12000	4200	0.75
S3	23 Feb 2021	950	60e	22e	64	0.37
S4	02 Feb 2021	830	>16000	>12000	5200	0.75
S4	04 Feb 2021	815	>16000	>12000	>12000	0.75
S4	06 Feb 2021	758	9000	1600e	500	0.18
S4	08 Feb 2021	905	6600	660	240e	0.10
S4	09 Feb 2021	925	80e	12e	18e	0.15
S4	16 Feb 2021	910	>16000	>12000	9800	0.75
S4	18 Feb 2021	930	>16000	>12000	4200	0.75
S4	20 Feb 2021	1137	>16000	12000e	1600e	0.75
S4	22 Feb 2021	1105	6200	3200e	1800e	0.52
S4	23 Feb 2021	738	>16000	5600	1000	0.35
S4	25 Feb 2021	930	500	64	400	0.13
S4	27 Feb 2021	1010	ns	ns	360e	ns
S5	01 Feb 2021	806	>16000	11000	4400	0.69
S5	02 Feb 2021	938	800e	56	68	0.07
S5	09 Feb 2021	1043	>16000	>12000	>12000	0.75
S5	11 Feb 2021	1040	3200e	720	240e	0.22
S5	13 Feb 2021	1135	860	80e	52	0.09
S5	16 Feb 2021	751	15000	5000	1200	0.33
S5	18 Feb 2021	834	>16000	>12000	>12000	0.75
S5	20 Feb 2021	1053	>16000	>12000	>12000	0.75
S5	22 Feb 2021	1145	>16000	>12000	>12000	0.75
S5	23 Feb 2021	920	>16000	>12000	>12000	0.75
S5	25 Feb 2021	1030	8000	5000	1600e	0.62
S5	27 Feb 2021	1102	<200	60e	200e	0.30
S6	02 Feb 2021	1000	40e	6e	16e	0.15
S6	09 Feb 2021	1100	2200e	480	110	0.22
S6	11 Feb 2021	1055	2200e	360e	26e	0.16
S6	13 Feb 2021	1147	3600e	280e	ns	0.08
S6	16 Feb 2021	815	3200e	720	160e	0.22
S6	18 Feb 2021	855	20e	4e	6e	0.20
S6	23 Feb 2021	940	20e	4e	2e	0.20
S8	02 Feb 2021	1040	2e	6e	<2	3.00
S8	09 Feb 2021	927	4200	440	460	0.10
S8	11 Feb 2021	850	20e	2e	<2	0.10
S8	16 Feb 2021	915	<20	4e	4e	0.20
S8	23 Feb 2021	915	2e	4e	<2	2.00

<b>Station</b>	<b>Date</b>	<b>Time</b>	<b>Total</b>	<b>Fecal</b>	<b>Enteric</b>	<b>F:T</b>
S9	02 Feb 2021	1100	40e	2e	2e	0.05
S9	09 Feb 2021	905	<20	2e	<2	0.10
S9	16 Feb 2021	930	<20	<2	<2	0.10
S9	23 Feb 2021	850	<20	4e	<2	0.20
S10	01 Feb 2021	851	>16000	>12000	8400	0.75
S10	02 Feb 2021	850	>16000	>12000	>12000	0.75
S10	04 Feb 2021	840	>16000	>12000	9200	0.75
S10	06 Feb 2021	740	12000	2600e	700	0.22
S10	08 Feb 2021	830	14000	2600e	520	0.19
S10	09 Feb 2021	905	>16000	5800	1000	0.36
S10	11 Feb 2021	957	>16000	1600e	320e	0.10
S10	13 Feb 2021	1058	6800	6000	840	0.88
S10	15 Feb 2021	805	>16000	10000	3200e	0.62
S10	16 Feb 2021	902	>16000	>12000	3200e	0.75
S10	18 Feb 2021	855	>16000	>12000	2800e	0.75
S10	20 Feb 2021	1130	>16000	>12000	2200e	0.75
S10	22 Feb 2021	1045	>16000	>12000	>12000	0.75
S10	23 Feb 2021	752	4200	720	500	0.17
S10	25 Feb 2021	945	100e	30e	120e	0.30
S10	27 Feb 2021	1022	ns	ns	100e	ns
S11	02 Feb 2021	950	100e	8e	12e	0.08
S11	09 Feb 2021	1052	800e	320e	78	0.40
S11	16 Feb 2021	803	8200	1400e	320e	0.17
S11	18 Feb 2021	844	40e	20e	8e	0.50
S11	23 Feb 2021	929	20e	8e	6e	0.40
S12	02 Feb 2021	1015	20e	4e	6e	0.20
S12	09 Feb 2021	950	600e	180e	68	0.30
S12	16 Feb 2021	948	2e	2e	<2	1.00
S12	23 Feb 2021	830	200e	4e	2e	0.02

ns = not sampled

ND = no data

## Comments

Station	Date	Depth	Parameter	Comments
S5	01 Feb 2021			Resample for 1/30
S10	01 Feb 2021			Resample for 1/28
S10	04 Feb 2021			Resample
S4	04 Feb 2021			Resample
S10	06 Feb 2021			Resample
S4	06 Feb 2021			Resample
S4	08 Feb 2021			Resample
S10	08 Feb 2021			Resample
S10	11 Feb 2021			Resample
S5	11 Feb 2021			Resample
S6	11 Feb 2021			Resample
S8	11 Feb 2021			Resample
S5	13 Feb 2021			Resample
S6	13 Feb 2021			Resample
S10	13 Feb 2021			Resample
S10	15 Feb 2021			Resample
S4	18 Feb 2021			Resample
S5	18 Feb 2021			Resample
S6	18 Feb 2021			Resample
S10	18 Feb 2021			Resample
S11	18 Feb 2021			Resample
S4	20 Feb 2021			Resample
S5	20 Feb 2021			Resample
S10	20 Feb 2021			Resample
S4	22 Feb 2021			Resample
S5	22 Feb 2021			Resample
S10	22 Feb 2021			Resample
S8	23 Feb 2021			Resample
S9	23 Feb 2021			Resample
S10	23 Feb 2021			Resample
S11	23 Feb 2021			Resample
S12	23 Feb 2021			Resample
S4	25 Feb 2021			Resample
S5	25 Feb 2021			Resample
S10	25 Feb 2021			Resample
S4	27 Feb 2021			Resample
S5	27 Feb 2021			Resample
S10	27 Feb 2021			Resample

**Table 2.9**

Summary of visual observations made during the month for each SBOO shore station by sample date.

Station	Date	Parameter	Value
S0	02 Feb 2021	Arrive Time	1140
S0	02 Feb 2021	Weather	Sunny
S0	02 Feb 2021	Wind Speed (kts)	9
S0	02 Feb 2021	Wind Dir	NW
S0	02 Feb 2021	Animal Life	5 Shorebirds
S0	02 Feb 2021	Floatables	None
S0	02 Feb 2021	Water Color	Green
S0	02 Feb 2021	Current Direction	N
S0	02 Feb 2021	Water Temp (C)	15
S0	02 Feb 2021	Wave Height Low (ft)	3
S0	02 Feb 2021	High Tide (ft)	4.19
S0	02 Feb 2021	High Tide Time	1150
S0	02 Feb 2021	Low Tide (ft)	1.42
S0	02 Feb 2021	Low Tide Time	610
S0	02 Feb 2021	Comments	Kelp; Water clear; 0.5 L/sec water flowing from storm drain
S0	09 Feb 2021	Arrive Time	1025
S0	09 Feb 2021	Weather	Cloudy
S0	09 Feb 2021	Wind Speed (kts)	1.9
S0	09 Feb 2021	Wind Dir	NW
S0	09 Feb 2021	Animal Life	20 Shorebirds
S0	09 Feb 2021	Floatables	None
S0	09 Feb 2021	Water Color	Green
S0	09 Feb 2021	Current Direction	N
S0	09 Feb 2021	Water Temp (C)	15
S0	09 Feb 2021	Wave Height Low (ft)	3
S0	09 Feb 2021	High Tide (ft)	6.07
S0	09 Feb 2021	High Tide Time	700
S0	09 Feb 2021	Low Tide (ft)	-1.39
S0	09 Feb 2021	Low Tide Time	1417
S0	09 Feb 2021	Comments	Kelp; Water clear; 0.5 L/sec water flowing from storm drain
S0	16 Feb 2021	Arrive Time	910
S0	16 Feb 2021	Weather	Cloudy
S0	16 Feb 2021	Wind Speed (kts)	4.8
S0	16 Feb 2021	Wind Dir	NE
S0	16 Feb 2021	Animal Life	10 Shorebirds
S0	16 Feb 2021	Floatables	None
S0	16 Feb 2021	Water Color	Green
S0	16 Feb 2021	Current Direction	N
S0	16 Feb 2021	Water Temp (C)	14
S0	16 Feb 2021	Wave Height Low (ft)	3
S0	16 Feb 2021	High Tide (ft)	3.71
S0	16 Feb 2021	High Tide Time	1126
S0	16 Feb 2021	Low Tide (ft)	1.4
S0	16 Feb 2021	Low Tide Time	546
S0	16 Feb 2021	Comments	Kelp; Water clear; 0.5 L/sec water flowing from storm drain
S0	23 Feb 2021	Arrive Time	910
S0	23 Feb 2021	Weather	Sunny
S0	23 Feb 2021	Wind Speed (kts)	3.1
S0	23 Feb 2021	Wind Dir	SW
S0	23 Feb 2021	Animal Life	20 Seagulls; 1 Dog
S0	23 Feb 2021	Floatables	None
S0	23 Feb 2021	Water Color	Green

Station	Date	Parameter	Value
S0	23 Feb 2021	Current Direction	N
S0	23 Feb 2021	Water Temp (C)	15
S0	23 Feb 2021	Wave Height Low (ft)	2
S0	23 Feb 2021	High Tide (ft)	5.09
S0	23 Feb 2021	High Tide Time	602
S0	23 Feb 2021	Low Tide (ft)	-0.56
S0	23 Feb 2021	Low Tide Time	1326
S0	23 Feb 2021	Comments	Kelp; Water turbid; 1.0 L/sec water flowing from storm drain
S2	02 Feb 2021	Arrive Time	1335
S2	02 Feb 2021	Weather	Sunny
S2	02 Feb 2021	Wind Speed (kts)	8.1
S2	02 Feb 2021	Wind Dir	NW
S2	02 Feb 2021	Animal Life	20 Shorebirds; 1 Dog
S2	02 Feb 2021	Floatables	None
S2	02 Feb 2021	Water Color	Green
S2	02 Feb 2021	Current Direction	N
S2	02 Feb 2021	Water Temp (C)	15
S2	02 Feb 2021	Wave Height Low (ft)	4
S2	02 Feb 2021	High Tide (ft)	4.19
S2	02 Feb 2021	High Tide Time	1150
S2	02 Feb 2021	Low Tide (ft)	1.42
S2	02 Feb 2021	Low Tide Time	610
S2	02 Feb 2021	Comments	Kelp; 4 Persons; Water clear; No flow from storm drain
S2	09 Feb 2021	Arrive Time	1146
S2	09 Feb 2021	Weather	Cloudy
S2	09 Feb 2021	Wind Speed (kts)	5
S2	09 Feb 2021	Wind Dir	NW
S2	09 Feb 2021	Animal Life	10 Shorebirds
S2	09 Feb 2021	Floatables	None
S2	09 Feb 2021	Water Color	Green
S2	09 Feb 2021	Current Direction	N
S2	09 Feb 2021	Water Temp (C)	15
S2	09 Feb 2021	Wave Height Low (ft)	4
S2	09 Feb 2021	High Tide (ft)	6.07
S2	09 Feb 2021	High Tide Time	700
S2	09 Feb 2021	Low Tide (ft)	-1.39
S2	09 Feb 2021	Low Tide Time	1417
S2	09 Feb 2021	Comments	Kelp; Water Water clear; No flow from storm drain
S2	16 Feb 2021	Arrive Time	1020
S2	16 Feb 2021	Weather	Cloudy
S2	16 Feb 2021	Wind Speed (kts)	4.6
S2	16 Feb 2021	Wind Dir	NE
S2	16 Feb 2021	Animal Life	10 Shorebirds; 1 Dog
S2	16 Feb 2021	Floatables	None
S2	16 Feb 2021	Water Color	Green
S2	16 Feb 2021	Current Direction	N
S2	16 Feb 2021	Water Temp (C)	14
S2	16 Feb 2021	Wave Height Low (ft)	3
S2	16 Feb 2021	High Tide (ft)	3.71
S2	16 Feb 2021	High Tide Time	1126
S2	16 Feb 2021	Low Tide (ft)	1.4
S2	16 Feb 2021	Low Tide Time	546
S2	16 Feb 2021	Comments	Kelp; 6 Persons; Water clear; No flow from storm drain
S2	23 Feb 2021	Arrive Time	1005
S2	23 Feb 2021	Weather	Sunny
S2	23 Feb 2021	Wind Speed (kts)	2.5
S2	23 Feb 2021	Wind Dir	SW

Station	Date	Parameter	Value
S2	23 Feb 2021	Animal Life	20 Seagulls
S2	23 Feb 2021	Floatables	None
S2	23 Feb 2021	Water Color	Green
S2	23 Feb 2021	Current Direction	N
S2	23 Feb 2021	Water Temp (C)	15
S2	23 Feb 2021	Wave Height Low (ft)	2
S2	23 Feb 2021	High Tide (ft)	5.09
S2	23 Feb 2021	High Tide Time	602
S2	23 Feb 2021	Low Tide (ft)	-0.56
S2	23 Feb 2021	Low Tide Time	1326
S2	23 Feb 2021	Comments	Kelp; Water turbid; No flow from storm drain
S3	02 Feb 2021	Arrive Time	1240
S3	02 Feb 2021	Weather	Cloudy
S3	02 Feb 2021	Wind Speed (kts)	7.9
S3	02 Feb 2021	Wind Dir	NW
S3	02 Feb 2021	Animal Life	None
S3	02 Feb 2021	Floatables	None
S3	02 Feb 2021	Water Color	Green
S3	02 Feb 2021	Current Direction	N
S3	02 Feb 2021	Water Temp (C)	15
S3	02 Feb 2021	Wave Height Low (ft)	4
S3	02 Feb 2021	High Tide (ft)	4.19
S3	02 Feb 2021	High Tide Time	1150
S3	02 Feb 2021	Low Tide (ft)	1.42
S3	02 Feb 2021	Low Tide Time	610
S3	02 Feb 2021	Comments	Water clear; 0.5 L/sec water flowing from storm drain; High tide
S3	09 Feb 2021	Arrive Time	1130
S3	09 Feb 2021	Weather	Cloudy
S3	09 Feb 2021	Wind Speed (kts)	1.4
S3	09 Feb 2021	Wind Dir	NW
S3	09 Feb 2021	Animal Life	None
S3	09 Feb 2021	Floatables	None
S3	09 Feb 2021	Water Color	Green
S3	09 Feb 2021	Current Direction	N
S3	09 Feb 2021	Water Temp (C)	14
S3	09 Feb 2021	Wave Height Low (ft)	4
S3	09 Feb 2021	High Tide (ft)	6.07
S3	09 Feb 2021	High Tide Time	700
S3	09 Feb 2021	Low Tide (ft)	-1.39
S3	09 Feb 2021	Low Tide Time	1417
S3	09 Feb 2021	Comments	Kelp; Water clear; No flow from storm drain
S3	16 Feb 2021	Arrive Time	950
S3	16 Feb 2021	Weather	Cloudy
S3	16 Feb 2021	Wind Speed (kts)	4.5
S3	16 Feb 2021	Wind Dir	NE
S3	16 Feb 2021	Animal Life	10 Shorebirds
S3	16 Feb 2021	Floatables	None
S3	16 Feb 2021	Water Color	Green
S3	16 Feb 2021	Current Direction	N
S3	16 Feb 2021	Water Temp (C)	14
S3	16 Feb 2021	Wave Height Low (ft)	3
S3	16 Feb 2021	High Tide (ft)	3.71
S3	16 Feb 2021	High Tide Time	1126
S3	16 Feb 2021	Low Tide (ft)	1.4
S3	16 Feb 2021	Low Tide Time	546
S3	16 Feb 2021	Comments	Kelp; Water clear; 0.5 L/sec water flowing from storm drain

Station	Date	Parameter	Value
S3	23 Feb 2021	Arrive Time	950
S3	23 Feb 2021	Weather	Sunny
S3	23 Feb 2021	Wind Speed (kts)	2.1
S3	23 Feb 2021	Wind Dir	SW
S3	23 Feb 2021	Animal Life	20 Seagulls
S3	23 Feb 2021	Floatables	None
S3	23 Feb 2021	Water Color	Green
S3	23 Feb 2021	Current Direction	N
S3	23 Feb 2021	Water Temp (C)	15
S3	23 Feb 2021	Wave Height Low (ft)	2
S3	23 Feb 2021	High Tide (ft)	5.09
S3	23 Feb 2021	High Tide Time	602
S3	23 Feb 2021	Low Tide (ft)	-0.56
S3	23 Feb 2021	Low Tide Time	1326
S3	23 Feb 2021	Comments	Kelp; Water turbid; No flow from storm drain
S4	02 Feb 2021	Arrive Time	830
S4	02 Feb 2021	Weather	Partly Cloudy
S4	02 Feb 2021	Wind Speed (kts)	3.3
S4	02 Feb 2021	Wind Dir	W
S4	02 Feb 2021	Animal Life	2 Godwits
S4	02 Feb 2021	Floatables	Foam
S4	02 Feb 2021	Water Color	Green
S4	02 Feb 2021	Current Direction	S
S4	02 Feb 2021	Water Temp (C)	15
S4	02 Feb 2021	Wave Height Low (ft)	4
S4	02 Feb 2021	High Tide (ft)	4.19
S4	02 Feb 2021	High Tide Time	1150
S4	02 Feb 2021	Low Tide (ft)	1.42
S4	02 Feb 2021	Low Tide Time	610
S4	02 Feb 2021	Comments	Seagrass; Water clear
S4	04 Feb 2021	Arrive Time	840
S4	04 Feb 2021	Weather	Cloudy
S4	04 Feb 2021	Wind Speed (kts)	4.6
S4	04 Feb 2021	Wind Dir	S
S4	04 Feb 2021	Animal Life	1 Godwit
S4	04 Feb 2021	Floatables	Foam; Film
S4	04 Feb 2021	Water Color	Green
S4	04 Feb 2021	Current Direction	N
S4	04 Feb 2021	Water Temp (C)	16
S4	04 Feb 2021	Wave Height Low (ft)	2
S4	04 Feb 2021	High Tide (ft)	2.79
S4	04 Feb 2021	High Tide Time	1450
S4	04 Feb 2021	Low Tide (ft)	1.05
S4	04 Feb 2021	Low Tide Time	909
S4	04 Feb 2021	Comments	Resample; Kelp; Seagrass; Water clear
S4	06 Feb 2021	Arrive Time	758
S4	06 Feb 2021	Weather	Sunny
S4	06 Feb 2021	Wind Speed (kts)	1.7
S4	06 Feb 2021	Wind Dir	E
S4	06 Feb 2021	Animal Life	17 Godwits; 6 Plovers
S4	06 Feb 2021	Floatables	Film
S4	06 Feb 2021	Water Color	Green
S4	06 Feb 2021	Current Direction	S
S4	06 Feb 2021	Water Temp (C)	14.1
S4	06 Feb 2021	Wave Height Low (ft)	2
S4	06 Feb 2021	High Tide (ft)	5.19
S4	06 Feb 2021	High Tide Time	412
S4	06 Feb 2021	Low Tide (ft)	-0.2

Station	Date	Parameter	Value
S4	06 Feb 2021	Low Tide Time	1158
S4	06 Feb 2021	Comments	Resample; Kelp; Seagrass; Debris; Water clear; Trash-2
S4	08 Feb 2021	Arrive Time	905
S4	08 Feb 2021	Weather	Overcast
S4	08 Feb 2021	Wind Speed (kts)	1.7
S4	08 Feb 2021	Wind Dir	W
S4	08 Feb 2021	Animal Life	3 Godwits; 1 Grebe; 5 Plovers; 2 Seagulls
S4	08 Feb 2021	Floatables	None
S4	08 Feb 2021	Water Color	Green
S4	08 Feb 2021	Current Direction	N
S4	08 Feb 2021	Water Temp (C)	15.2
S4	08 Feb 2021	Wave Height Low (ft)	3
S4	08 Feb 2021	High Tide (ft)	5.84
S4	08 Feb 2021	High Tide Time	611
S4	08 Feb 2021	Low Tide (ft)	-1.18
S4	08 Feb 2021	Low Tide Time	1337
S4	08 Feb 2021	Comments	Resample; Kelp; Algae; Debris-1; Water clear
S4	09 Feb 2021	Arrive Time	925
S4	09 Feb 2021	Weather	Overcast
S4	09 Feb 2021	Wind Speed (kts)	0.7
S4	09 Feb 2021	Wind Dir	SE
S4	09 Feb 2021	Animal Life	1 Cormorant; 4 Godwits; 20 Plovers
S4	09 Feb 2021	Floatables	Foam; Film
S4	09 Feb 2021	Water Color	Green
S4	09 Feb 2021	Current Direction	N
S4	09 Feb 2021	Water Temp (C)	15.9
S4	09 Feb 2021	Wave Height Low (ft)	3
S4	09 Feb 2021	High Tide (ft)	6.07
S4	09 Feb 2021	High Tide Time	700
S4	09 Feb 2021	Low Tide (ft)	-1.39
S4	09 Feb 2021	Low Tide Time	1417
S4	09 Feb 2021	Comments	Kelp; Seagrass; Debris; Water clear
S4	16 Feb 2021	Arrive Time	910
S4	16 Feb 2021	Weather	Cloudy
S4	16 Feb 2021	Wind Speed (kts)	3.3
S4	16 Feb 2021	Wind Dir	W
S4	16 Feb 2021	Animal Life	3 Godwits; 1 Seagull
S4	16 Feb 2021	Floatables	Foam; Film
S4	16 Feb 2021	Water Color	Green
S4	16 Feb 2021	Current Direction	S
S4	16 Feb 2021	Water Temp (C)	16.7
S4	16 Feb 2021	Wave Height Low (ft)	3
S4	16 Feb 2021	High Tide (ft)	3.71
S4	16 Feb 2021	High Tide Time	1126
S4	16 Feb 2021	Low Tide (ft)	1.4
S4	16 Feb 2021	Low Tide Time	546
S4	16 Feb 2021	Comments	Kelp; Seagrass; Debris; Water turbid; Trash-1
S4	18 Feb 2021	Arrive Time	930
S4	18 Feb 2021	Weather	Sunny
S4	18 Feb 2021	Wind Speed (kts)	8.1
S4	18 Feb 2021	Wind Dir	W
S4	18 Feb 2021	Animal Life	4 Godwits; 2 Grebes; 4 Seagulls
S4	18 Feb 2021	Floatables	Foam
S4	18 Feb 2021	Water Color	Green
S4	18 Feb 2021	Current Direction	Sunny
S4	18 Feb 2021	Water Temp (C)	14

Station	Date	Parameter	Value
S4	18 Feb 2021	Wave Height Low (ft)	2
S4	18 Feb 2021	High Tide (ft)	2.48
S4	18 Feb 2021	High Tide Time	1340
S4	18 Feb 2021	Low Tide (ft)	1.56
S4	18 Feb 2021	Low Tide Time	806
S4	18 Feb 2021	Comments	Resample; Water turbid; Trash-1
S4	20 Feb 2021	Arrive Time	1137
S4	20 Feb 2021	Weather	Cloudy
S4	20 Feb 2021	Wind Speed (kts)	4.6
S4	20 Feb 2021	Wind Dir	W
S4	20 Feb 2021	Animal Life	1 Cormorant; 25 Godwits
S4	20 Feb 2021	Floatables	Foam
S4	20 Feb 2021	Water Color	Grey
S4	20 Feb 2021	Current Direction	S
S4	20 Feb 2021	Water Temp (C)	14.9
S4	20 Feb 2021	Wave Height Low (ft)	3
S4	20 Feb 2021	High Tide (ft)	2.74
S4	20 Feb 2021	High Tide Time	1919
S4	20 Feb 2021	Low Tide (ft)	0.88
S4	20 Feb 2021	Low Tide Time	1129
S4	20 Feb 2021	Comments	Resample; Kelp; Sewage-like odor; Water turbid
S4	22 Feb 2021	Arrive Time	1105
S4	22 Feb 2021	Weather	Sunny
S4	22 Feb 2021	Wind Speed (kts)	5.2
S4	22 Feb 2021	Wind Dir	NW
S4	22 Feb 2021	Animal Life	52 Godwits; 2 Seagulls
S4	22 Feb 2021	Floatables	Foam; Film
S4	22 Feb 2021	Water Color	Green
S4	22 Feb 2021	Current Direction	S
S4	22 Feb 2021	Water Temp (C)	14.8
S4	22 Feb 2021	Wave Height Low (ft)	2
S4	22 Feb 2021	High Tide (ft)	4.65
S4	22 Feb 2021	High Tide Time	514
S4	22 Feb 2021	Low Tide (ft)	-0.13
S4	22 Feb 2021	Low Tide Time	1254
S4	22 Feb 2021	Comments	Resample; Kelp; Seagrass; Water clear; Trash-1
S4	23 Feb 2021	Arrive Time	738
S4	23 Feb 2021	Weather	Sunny
S4	23 Feb 2021	Wind Speed (kts)	0.9
S4	23 Feb 2021	Wind Dir	E
S4	23 Feb 2021	Animal Life	4 Godwits
S4	23 Feb 2021	Floatables	Foam; Film; Soap; Trash-1
S4	23 Feb 2021	Water Color	Green
S4	23 Feb 2021	Current Direction	S
S4	23 Feb 2021	Water Temp (C)	13.3
S4	23 Feb 2021	Wave Height Low (ft)	4
S4	23 Feb 2021	High Tide (ft)	5.09
S4	23 Feb 2021	High Tide Time	602
S4	23 Feb 2021	Low Tide (ft)	-0.56
S4	23 Feb 2021	Low Tide Time	1326
S4	23 Feb 2021	Comments	Kelp; Seagrass; Water clear
S4	25 Feb 2021	Arrive Time	930
S4	25 Feb 2021	Weather	Sunny
S4	25 Feb 2021	Wind Speed (kts)	7.5
S4	25 Feb 2021	Wind Dir	W
S4	25 Feb 2021	Animal Life	1 Godwit
S4	25 Feb 2021	Floatables	Foam

Station	Date	Parameter	Value
S4	25 Feb 2021	Water Color	Green
S4	25 Feb 2021	Current Direction	S
S4	25 Feb 2021	Water Temp (C)	17.8
S4	25 Feb 2021	Wave Height Low (ft)	3
S4	25 Feb 2021	High Tide (ft)	5.86
S4	25 Feb 2021	High Tide Time	723
S4	25 Feb 2021	Low Tide (ft)	-1.14
S4	25 Feb 2021	Low Tide Time	1427
S4	25 Feb 2021	Comments	Resample; Kelp; Seagrass; Water clear; Trash-3
S4	27 Feb 2021	Arrive Time	1010
S4	27 Feb 2021	Weather	Sunny
S4	27 Feb 2021	Wind Speed (kts)	5.8
S4	27 Feb 2021	Wind Dir	W
S4	27 Feb 2021	Animal Life	15 Godwits
S4	27 Feb 2021	Floatables	Foam; Film; Soap
S4	27 Feb 2021	Water Color	Green
S4	27 Feb 2021	Current Direction	N
S4	27 Feb 2021	Water Temp (C)	16.3
S4	27 Feb 2021	Wave Height Low (ft)	5
S4	27 Feb 2021	High Tide (ft)	6.04
S4	27 Feb 2021	High Tide Time	841
S4	27 Feb 2021	Low Tide (ft)	-1.11
S4	27 Feb 2021	Low Tide Time	1529
S4	27 Feb 2021	Comments	Resample; Kelp; Seagrass; Water clear; Trash-3
S5	01 Feb 2021	Arrive Time	806
S5	01 Feb 2021	Weather	Cloudy
S5	01 Feb 2021	Wind Speed (kts)	2.1
S5	01 Feb 2021	Wind Dir	E
S5	01 Feb 2021	Animal Life	1 Seal; 3 Grebes; 1 Seagull; 2 Godwit
S5	01 Feb 2021	Floatables	None
S5	01 Feb 2021	Water Color	Gray
S5	01 Feb 2021	Current Direction	N
S5	01 Feb 2021	Water Temp (C)	15.6
S5	01 Feb 2021	Wave Height Low (ft)	2
S5	01 Feb 2021	High Tide (ft)	4.96
S5	01 Feb 2021	High Tide Time	1056
S5	01 Feb 2021	Low Tide (ft)	1.41
S5	01 Feb 2021	Low Tide Time	506
S5	01 Feb 2021	Comments	Resample; Kelp; Seagrass; Water clear
S5	02 Feb 2021	Arrive Time	938
S5	02 Feb 2021	Weather	Cloudy
S5	02 Feb 2021	Wind Speed (kts)	5.4
S5	02 Feb 2021	Wind Dir	NW
S5	02 Feb 2021	Animal Life	1 Godwit; 5 Plovers
S5	02 Feb 2021	Floatables	Foam; Film
S5	02 Feb 2021	Water Color	Green
S5	02 Feb 2021	Current Direction	S
S5	02 Feb 2021	Water Temp (C)	16.3
S5	02 Feb 2021	Wave Height Low (ft)	2
S5	02 Feb 2021	High Tide (ft)	4.19
S5	02 Feb 2021	High Tide Time	1150
S5	02 Feb 2021	Low Tide (ft)	1.42
S5	02 Feb 2021	Low Tide Time	610
S5	02 Feb 2021	Comments	Kelp; Seagrass; Debris-1; Water clear
S5	09 Feb 2021	Arrive Time	1043
S5	09 Feb 2021	Weather	Overcast
S5	09 Feb 2021	Wind Speed (kts)	2.1

Station	Date	Parameter	Value
S5	09 Feb 2021	Wind Dir	W
S5	09 Feb 2021	Animal Life	None
S5	09 Feb 2021	Floatables	Foam; Film
S5	09 Feb 2021	Water Color	Brown
S5	09 Feb 2021	Current Direction	N
S5	09 Feb 2021	Water Temp (C)	13
S5	09 Feb 2021	Wave Height Low (ft)	2
S5	09 Feb 2021	High Tide (ft)	6.07
S5	09 Feb 2021	High Tide Time	700
S5	09 Feb 2021	Low Tide (ft)	-1.39
S5	09 Feb 2021	Low Tide Time	1417
S5	09 Feb 2021	Comments	Kelp; Seagrass; Debris; Sewage-like odor; Water turbid
S5	11 Feb 2021	Arrive Time	1040
S5	11 Feb 2021	Weather	Sunny
S5	11 Feb 2021	Wind Speed (kts)	5.4
S5	11 Feb 2021	Wind Dir	NW
S5	11 Feb 2021	Animal Life	12 Seagulls; 1 Plover
S5	11 Feb 2021	Floatables	Foam
S5	11 Feb 2021	Water Color	Green
S5	11 Feb 2021	Current Direction	S
S5	11 Feb 2021	Water Temp (C)	16.1
S5	11 Feb 2021	Wave Height Low (ft)	1
S5	11 Feb 2021	High Tide (ft)	6.11
S5	11 Feb 2021	High Tide Time	824
S5	11 Feb 2021	Low Tide (ft)	-1.26
S5	11 Feb 2021	Low Tide Time	1526
S5	11 Feb 2021	Comments	Resample; Kelp; Seagrass; Debris; 2 Persons; 1 Tractor; Water turbid
S5	13 Feb 2021	Arrive Time	1135
S5	13 Feb 2021	Weather	Overcast
S5	13 Feb 2021	Wind Speed (kts)	6.8
S5	13 Feb 2021	Wind Dir	SW
S5	13 Feb 2021	Animal Life	2 Godwits; 2 Seagulls
S5	13 Feb 2021	Floatables	Foam; Film
S5	13 Feb 2021	Water Color	Brown
S5	13 Feb 2021	Current Direction	N
S5	13 Feb 2021	Water Temp (C)	17.1
S5	13 Feb 2021	Wave Height Low (ft)	2
S5	13 Feb 2021	High Tide (ft)	5.49
S5	13 Feb 2021	High Tide Time	938
S5	13 Feb 2021	Low Tide (ft)	-0.59
S5	13 Feb 2021	Low Tide Time	1627
S5	13 Feb 2021	Comments	Resample; Kelp; Seagrass; Sewage-like odor; Water turbid; Trash-1
S5	16 Feb 2021	Arrive Time	751
S5	16 Feb 2021	Weather	Cloudy
S5	16 Feb 2021	Wind Speed (kts)	4
S5	16 Feb 2021	Wind Dir	NW
S5	16 Feb 2021	Animal Life	1 Godwit; 3 Plovers; 1 Seagull; 1 Tern
S5	16 Feb 2021	Floatables	None
S5	16 Feb 2021	Water Color	Blue
S5	16 Feb 2021	Current Direction	S
S5	16 Feb 2021	Water Temp (C)	16.3
S5	16 Feb 2021	Wave Height Low (ft)	2
S5	16 Feb 2021	High Tide (ft)	3.71
S5	16 Feb 2021	High Tide Time	1126
S5	16 Feb 2021	Low Tide (ft)	1.4
S5	16 Feb 2021	Low Tide Time	546

Station	Date	Parameter	Value
S5	16 Feb 2021	Comments	Kelp; Seagrass; Debris; Water clear; Trash-1
S5	18 Feb 2021	Arrive Time	834
S5	18 Feb 2021	Weather	Sunny
S5	18 Feb 2021	Wind Speed (kts)	2.5
S5	18 Feb 2021	Wind Dir	NE
S5	18 Feb 2021	Animal Life	1 Plover; 50 Terns
S5	18 Feb 2021	Floatables	Foam; Film
S5	18 Feb 2021	Water Color	Brown
S5	18 Feb 2021	Current Direction	S
S5	18 Feb 2021	Water Temp (C)	14.8
S5	18 Feb 2021	Wave Height Low (ft)	3
S5	18 Feb 2021	High Tide (ft)	2.48
S5	18 Feb 2021	High Tide Time	1340
S5	18 Feb 2021	Low Tide (ft)	1.56
S5	18 Feb 2021	Low Tide Time	806
S5	18 Feb 2021	Comments	Resample; Kelp; Seagrass; Sewage-like odor; Water turbid
S5	20 Feb 2021	Arrive Time	1053
S5	20 Feb 2021	Weather	Cloudy
S5	20 Feb 2021	Wind Speed (kts)	5.4
S5	20 Feb 2021	Wind Dir	NW
S5	20 Feb 2021	Animal Life	1 Godwit; 1 Plover; 1 Seagull
S5	20 Feb 2021	Floatables	None
S5	20 Feb 2021	Water Color	Grey
S5	20 Feb 2021	Current Direction	S
S5	20 Feb 2021	Water Temp (C)	15.9
S5	20 Feb 2021	Wave Height Low (ft)	1
S5	20 Feb 2021	High Tide (ft)	2.74
S5	20 Feb 2021	High Tide Time	1919
S5	20 Feb 2021	Low Tide (ft)	0.88
S5	20 Feb 2021	Low Tide Time	1129
S5	20 Feb 2021	Comments	Resample; Kelp; Sewage-like odor; 2 Persons; Water turbid; Trash-1
S5	22 Feb 2021	Arrive Time	1145
S5	22 Feb 2021	Weather	Sunny
S5	22 Feb 2021	Wind Speed (kts)	6.9
S5	22 Feb 2021	Wind Dir	N
S5	22 Feb 2021	Animal Life	1 Pelican; 47 Seagulls
S5	22 Feb 2021	Floatables	Foam; Film
S5	22 Feb 2021	Water Color	Green
S5	22 Feb 2021	Current Direction	S
S5	22 Feb 2021	Water Temp (C)	16.5
S5	22 Feb 2021	Wave Height Low (ft)	1
S5	22 Feb 2021	High Tide (ft)	4.65
S5	22 Feb 2021	High Tide Time	514
S5	22 Feb 2021	Low Tide (ft)	-0.13
S5	22 Feb 2021	Low Tide Time	1254
S5	22 Feb 2021	Comments	Resample; Seagrass; 3 Persons; Water turbid; Trash-1
S5	23 Feb 2021	Arrive Time	920
S5	23 Feb 2021	Weather	Sunny
S5	23 Feb 2021	Wind Speed (kts)	2.3
S5	23 Feb 2021	Wind Dir	W
S5	23 Feb 2021	Animal Life	1 Dog; 8 Plovers
S5	23 Feb 2021	Floatables	Foam; Film; Soap
S5	23 Feb 2021	Water Color	Green
S5	23 Feb 2021	Current Direction	S
S5	23 Feb 2021	Water Temp (C)	15.3
S5	23 Feb 2021	Wave Height Low (ft)	3

Station	Date	Parameter	Value
S5	23 Feb 2021	High Tide (ft)	5.09
S5	23 Feb 2021	High Tide Time	602
S5	23 Feb 2021	Low Tide (ft)	-0.56
S5	23 Feb 2021	Low Tide Time	1326
S5	23 Feb 2021	Comments	Kelp; Seagrass; Sewage-like odor; 3 Persons; Trash-1; Water clear
S5	25 Feb 2021	Arrive Time	1030
S5	25 Feb 2021	Weather	Sunny
S5	25 Feb 2021	Wind Speed (kts)	7.3
S5	25 Feb 2021	Wind Dir	NW
S5	25 Feb 2021	Animal Life	1 Dog; 12 Seagulls; 200 Terns
S5	25 Feb 2021	Floatables	Foam
S5	25 Feb 2021	Water Color	Green
S5	25 Feb 2021	Current Direction	
S5	25 Feb 2021	Water Temp (C)	16.4
S5	25 Feb 2021	Wave Height Low (ft)	2
S5	25 Feb 2021	High Tide (ft)	5.86
S5	25 Feb 2021	High Tide Time	723
S5	25 Feb 2021	Low Tide (ft)	-1.14
S5	25 Feb 2021	Low Tide Time	1427
S5	25 Feb 2021	Comments	Resample; Kelp; Seagrass; 3 Persons; Water turbid; Trash-2
S5	27 Feb 2021	Arrive Time	1102
S5	27 Feb 2021	Weather	Sunny
S5	27 Feb 2021	Wind Speed (kts)	4.6
S5	27 Feb 2021	Wind Dir	NW
S5	27 Feb 2021	Animal Life	None
S5	27 Feb 2021	Floatables	Foam; Film
S5	27 Feb 2021	Water Color	Brown
S5	27 Feb 2021	Current Direction	S
S5	27 Feb 2021	Water Temp (C)	16.2
S5	27 Feb 2021	Wave Height Low (ft)	3
S5	27 Feb 2021	High Tide (ft)	6.04
S5	27 Feb 2021	High Tide Time	841
S5	27 Feb 2021	Low Tide (ft)	-1.11
S5	27 Feb 2021	Low Tide Time	1529
S5	27 Feb 2021	Comments	Resample; Kelp; Seagrass; Sewage-like Odor; Water clear; Trash-1
S6	02 Feb 2021	Arrive Time	1000
S6	02 Feb 2021	Weather	Cloudy
S6	02 Feb 2021	Wind Speed (kts)	5.4
S6	02 Feb 2021	Wind Dir	NW
S6	02 Feb 2021	Animal Life	1 Godwit; 2 Seagulls
S6	02 Feb 2021	Floatables	Foam; Film
S6	02 Feb 2021	Water Color	Green
S6	02 Feb 2021	Current Direction	S
S6	02 Feb 2021	Water Temp (C)	16.1
S6	02 Feb 2021	Wave Height Low (ft)	4
S6	02 Feb 2021	High Tide (ft)	4.19
S6	02 Feb 2021	High Tide Time	1150
S6	02 Feb 2021	Low Tide (ft)	1.42
S6	02 Feb 2021	Low Tide Time	610
S6	02 Feb 2021	Comments	Kelp; Seagrass; Water turbid
S6	09 Feb 2021	Arrive Time	1100
S6	09 Feb 2021	Weather	Overcast
S6	09 Feb 2021	Wind Speed (kts)	3.1
S6	09 Feb 2021	Wind Dir	W
S6	09 Feb 2021	Animal Life	1 Godwit; 1 Pelican

Station	Date	Parameter	Value
S6	09 Feb 2021	Floatables	Foam; Film
S6	09 Feb 2021	Water Color	Green
S6	09 Feb 2021	Current Direction	N
S6	09 Feb 2021	Water Temp (C)	12
S6	09 Feb 2021	Wave Height Low (ft)	3
S6	09 Feb 2021	High Tide (ft)	6.07
S6	09 Feb 2021	High Tide Time	700
S6	09 Feb 2021	Low Tide (ft)	-1.39
S6	09 Feb 2021	Low Tide Time	1417
S6	09 Feb 2021	Comments	Kelp; Seagrass; 1 Surfer; Water clear
S6	11 Feb 2021	Arrive Time	1055
S6	11 Feb 2021	Weather	Sunny
S6	11 Feb 2021	Wind Speed (kts)	7.1
S6	11 Feb 2021	Wind Dir	NW
S6	11 Feb 2021	Animal Life	1 Seagull
S6	11 Feb 2021	Floatables	Foam
S6	11 Feb 2021	Water Color	Green
S6	11 Feb 2021	Current Direction	S
S6	11 Feb 2021	Water Temp (C)	16.3
S6	11 Feb 2021	Wave Height Low (ft)	3
S6	11 Feb 2021	High Tide (ft)	6.11
S6	11 Feb 2021	High Tide Time	824
S6	11 Feb 2021	Low Tide (ft)	-1.26
S6	11 Feb 2021	Low Tide Time	1526
S6	11 Feb 2021	Comments	Resample; Kelp; Seagrass; 2 Persons; 2 Surfers; Water clear
S6	13 Feb 2021	Arrive Time	1147
S6	13 Feb 2021	Weather	Overcast
S6	13 Feb 2021	Wind Speed (kts)	6.6
S6	13 Feb 2021	Wind Dir	SW
S6	13 Feb 2021	Animal Life	1 Bird; 4 Godwits
S6	13 Feb 2021	Floatables	Foam; Film
S6	13 Feb 2021	Water Color	Green
S6	13 Feb 2021	Current Direction	N
S6	13 Feb 2021	Water Temp (C)	16.1
S6	13 Feb 2021	Wave Height Low (ft)	4
S6	13 Feb 2021	High Tide (ft)	5.49
S6	13 Feb 2021	High Tide Time	938
S6	13 Feb 2021	Low Tide (ft)	-0.59
S6	13 Feb 2021	Low Tide Time	1627
S6	13 Feb 2021	Comments	Resample; Kelp; Seagrass; Sewage-like odor; 2 Persons; Water turbid; Trash-1
S6	16 Feb 2021	Arrive Time	815
S6	16 Feb 2021	Weather	Cloudy
S6	16 Feb 2021	Wind Speed (kts)	2.9
S6	16 Feb 2021	Wind Dir	W
S6	16 Feb 2021	Animal Life	1 Dog; 2 Seagulls
S6	16 Feb 2021	Floatables	None
S6	16 Feb 2021	Water Color	Green
S6	16 Feb 2021	Current Direction	S
S6	16 Feb 2021	Water Temp (C)	15.9
S6	16 Feb 2021	Wave Height Low (ft)	3
S6	16 Feb 2021	High Tide (ft)	3.71
S6	16 Feb 2021	High Tide Time	1126
S6	16 Feb 2021	Low Tide (ft)	1.4
S6	16 Feb 2021	Low Tide Time	546
S6	16 Feb 2021	Comments	Kelp; Seagrass; Debris; 1 Person; Water clear; Trash-1
S6	18 Feb 2021	Arrive Time	855

Station	Date	Parameter	Value
S6	18 Feb 2021	Weather	Sunny
S6	18 Feb 2021	Wind Speed (kts)	3.4
S6	18 Feb 2021	Wind Dir	N
S6	18 Feb 2021	Animal Life	1 Seagull
S6	18 Feb 2021	Floatables	Foam; Film
S6	18 Feb 2021	Water Color	Brown
S6	18 Feb 2021	Current Direction	S
S6	18 Feb 2021	Water Temp (C)	15.5
S6	18 Feb 2021	Wave Height Low (ft)	4
S6	18 Feb 2021	High Tide (ft)	2.48
S6	18 Feb 2021	High Tide Time	1340
S6	18 Feb 2021	Low Tide (ft)	1.56
S6	18 Feb 2021	Low Tide Time	806
S6	18 Feb 2021	Comments	Resample; Kelp; Seagrass; 2 Persons; 2 Surfers; Water turbid; Trash-1
S6	23 Feb 2021	Arrive Time	940
S6	23 Feb 2021	Weather	Sunny
S6	23 Feb 2021	Wind Speed (kts)	5.8
S6	23 Feb 2021	Wind Dir	NW
S6	23 Feb 2021	Animal Life	None
S6	23 Feb 2021	Floatables	Foam; Film; Soap
S6	23 Feb 2021	Water Color	Green
S6	23 Feb 2021	Current Direction	S
S6	23 Feb 2021	Water Temp (C)	14.5
S6	23 Feb 2021	Wave Height Low (ft)	4
S6	23 Feb 2021	High Tide (ft)	5.09
S6	23 Feb 2021	High Tide Time	602
S6	23 Feb 2021	Low Tide (ft)	-0.56
S6	23 Feb 2021	Low Tide Time	1326
S6	23 Feb 2021	Comments	Kelp; Seagrass; 3 Persons; 1 Surfer; Water clear
S8	02 Feb 2021	Arrive Time	1040
S8	02 Feb 2021	Weather	Cloudy
S8	02 Feb 2021	Wind Speed (kts)	7.3
S8	02 Feb 2021	Wind Dir	NW
S8	02 Feb 2021	Animal Life	54 Grebes; 2 Seagulls
S8	02 Feb 2021	Floatables	Foam
S8	02 Feb 2021	Water Color	Green
S8	02 Feb 2021	Current Direction	S
S8	02 Feb 2021	Water Temp (C)	16.1
S8	02 Feb 2021	Wave Height Low (ft)	2
S8	02 Feb 2021	High Tide (ft)	4.19
S8	02 Feb 2021	High Tide Time	1150
S8	02 Feb 2021	Low Tide (ft)	1.42
S8	02 Feb 2021	Low Tide Time	610
S8	02 Feb 2021	Comments	Kelp; Seagrass; Water clear
S8	09 Feb 2021	Arrive Time	927
S8	09 Feb 2021	Weather	Cloudy
S8	09 Feb 2021	Wind Speed (kts)	1.7
S8	09 Feb 2021	Wind Dir	S
S8	09 Feb 2021	Animal Life	7 Cormorants
S8	09 Feb 2021	Floatables	None
S8	09 Feb 2021	Water Color	Green
S8	09 Feb 2021	Current Direction	N
S8	09 Feb 2021	Water Temp (C)	11
S8	09 Feb 2021	Wave Height Low (ft)	1
S8	09 Feb 2021	High Tide (ft)	6.07
S8	09 Feb 2021	High Tide Time	700
S8	09 Feb 2021	Low Tide (ft)	-1.39

Station	Date	Parameter	Value
S8	09 Feb 2021	Low Tide Time	1417
S8	09 Feb 2021	Comments	Kelp; Seagrass; 1 Jogger; 2 Persons; 1 Boat; Water clear
S8	11 Feb 2021	Arrive Time	850
S8	11 Feb 2021	Weather	Sunny
S8	11 Feb 2021	Wind Speed (kts)	3.6
S8	11 Feb 2021	Wind Dir	E
S8	11 Feb 2021	Animal Life	2 Seagulls
S8	11 Feb 2021	Floatables	Foam
S8	11 Feb 2021	Water Color	Green
S8	11 Feb 2021	Current Direction	S
S8	11 Feb 2021	Water Temp (C)	15.8
S8	11 Feb 2021	Wave Height Low (ft)	2
S8	11 Feb 2021	High Tide (ft)	6.11
S8	11 Feb 2021	High Tide Time	824
S8	11 Feb 2021	Low Tide (ft)	-1.26
S8	11 Feb 2021	Low Tide Time	1526
S8	11 Feb 2021	Comments	Resample; Kelp; Seagrass; Debris; 1 Person; Water clear
S8	16 Feb 2021	Arrive Time	915
S8	16 Feb 2021	Weather	Cloudy
S8	16 Feb 2021	Wind Speed (kts)	5.6
S8	16 Feb 2021	Wind Dir	W
S8	16 Feb 2021	Animal Life	None
S8	16 Feb 2021	Floatables	Foam; Film
S8	16 Feb 2021	Water Color	Green
S8	16 Feb 2021	Current Direction	S
S8	16 Feb 2021	Water Temp (C)	15
S8	16 Feb 2021	Wave Height Low (ft)	3
S8	16 Feb 2021	High Tide (ft)	3.71
S8	16 Feb 2021	High Tide Time	1126
S8	16 Feb 2021	Low Tide (ft)	1.4
S8	16 Feb 2021	Low Tide Time	546
S8	16 Feb 2021	Comments	Kelp; Seagrass; 1 Person; 2 Fishermen; Water clear; Trash-3
S8	23 Feb 2021	Arrive Time	915
S8	23 Feb 2021	Weather	Sunny
S8	23 Feb 2021	Wind Speed (kts)	4.2
S8	23 Feb 2021	Wind Dir	N
S8	23 Feb 2021	Animal Life	1 Dog; 13 Grebes; 2 Dolphins
S8	23 Feb 2021	Floatables	Foam
S8	23 Feb 2021	Water Color	Green
S8	23 Feb 2021	Current Direction	S
S8	23 Feb 2021	Water Temp (C)	13
S8	23 Feb 2021	Wave Height Low (ft)	1
S8	23 Feb 2021	High Tide (ft)	5.09
S8	23 Feb 2021	High Tide Time	602
S8	23 Feb 2021	Low Tide (ft)	-0.56
S8	23 Feb 2021	Low Tide Time	1326
S8	23 Feb 2021	Comments	Kelp; Water clear
S9	02 Feb 2021	Arrive Time	1100
S9	02 Feb 2021	Weather	Cloudy
S9	02 Feb 2021	Wind Speed (kts)	5
S9	02 Feb 2021	Wind Dir	N
S9	02 Feb 2021	Animal Life	31 Godwits; 2 Seagulls
S9	02 Feb 2021	Floatables	Foam
S9	02 Feb 2021	Water Color	Green
S9	02 Feb 2021	Current Direction	S
S9	02 Feb 2021	Water Temp (C)	16.3
S9	02 Feb 2021	Wave Height Low (ft)	2

Station	Date	Parameter	Value
S9	02 Feb 2021	High Tide (ft)	4.19
S9	02 Feb 2021	High Tide Time	1150
S9	02 Feb 2021	Low Tide (ft)	1.42
S9	02 Feb 2021	Low Tide Time	610
S9	02 Feb 2021	Comments	Kelp; 7 Persons; Water clear
S9	09 Feb 2021	Arrive Time	905
S9	09 Feb 2021	Weather	Cloudy
S9	09 Feb 2021	Wind Speed (kts)	0.9
S9	09 Feb 2021	Wind Dir	W
S9	09 Feb 2021	Animal Life	1 Godwit; 2 Seagulls
S9	09 Feb 2021	Floatables	None
S9	09 Feb 2021	Water Color	Blue
S9	09 Feb 2021	Current Direction	N
S9	09 Feb 2021	Water Temp (C)	12
S9	09 Feb 2021	Wave Height Low (ft)	2
S9	09 Feb 2021	High Tide (ft)	6.07
S9	09 Feb 2021	High Tide Time	700
S9	09 Feb 2021	Low Tide (ft)	-1.39
S9	09 Feb 2021	Low Tide Time	1417
S9	09 Feb 2021	Comments	Kelp; Seagrass; 1 Jogger; Water clear
S9	16 Feb 2021	Arrive Time	950
S9	16 Feb 2021	Weather	Partly Cloudy
S9	16 Feb 2021	Wind Speed (kts)	2.9
S9	16 Feb 2021	Wind Dir	W
S9	16 Feb 2021	Animal Life	3 Godwits; 1 Seagull
S9	16 Feb 2021	Floatables	Foam; Film
S9	16 Feb 2021	Water Color	Green
S9	16 Feb 2021	Current Direction	S
S9	16 Feb 2021	Water Temp (C)	14
S9	16 Feb 2021	Wave Height Low (ft)	4
S9	16 Feb 2021	High Tide (ft)	3.71
S9	16 Feb 2021	High Tide Time	1126
S9	16 Feb 2021	Low Tide (ft)	1.4
S9	16 Feb 2021	Low Tide Time	546
S9	16 Feb 2021	Comments	Kelp; Seagrass; 2 Joggers; 3 Persons; Water clear; Trash-1
S9	23 Feb 2021	Arrive Time	850
S9	23 Feb 2021	Weather	Sunny
S9	23 Feb 2021	Wind Speed (kts)	1.3
S9	23 Feb 2021	Wind Dir	W
S9	23 Feb 2021	Animal Life	None
S9	23 Feb 2021	Floatables	Foam
S9	23 Feb 2021	Water Color	Green
S9	23 Feb 2021	Current Direction	N
S9	23 Feb 2021	Water Temp (C)	13
S9	23 Feb 2021	Wave Height Low (ft)	1
S9	23 Feb 2021	High Tide (ft)	5.09
S9	23 Feb 2021	High Tide Time	602
S9	23 Feb 2021	Low Tide (ft)	-0.56
S9	23 Feb 2021	Low Tide Time	1326
S9	23 Feb 2021	Comments	5 Persons; Water clear
S10	01 Feb 2021	Arrive Time	851
S10	01 Feb 2021	Weather	Cloudy
S10	01 Feb 2021	Wind Speed (kts)	3.4
S10	01 Feb 2021	Wind Dir	NW
S10	01 Feb 2021	Animal Life	10 Cormorants
S10	01 Feb 2021	Floatables	None
S10	01 Feb 2021	Water Color	Gray

Station	Date	Parameter	Value
S10	01 Feb 2021	Current Direction	N
S10	01 Feb 2021	Water Temp (C)	15.7
S10	01 Feb 2021	Wave Height Low (ft)	4
S10	01 Feb 2021	High Tide (ft)	4.96
S10	01 Feb 2021	High Tide Time	4.96
S10	01 Feb 2021	Low Tide (ft)	1.41
S10	01 Feb 2021	Low Tide Time	506
S10	01 Feb 2021	Comments	Resample; Kelp; Debris-1; Water turbid
S10	02 Feb 2021	Arrive Time	850
S10	02 Feb 2021	Weather	Partly Cloudy
S10	02 Feb 2021	Wind Speed (kts)	5.8
S10	02 Feb 2021	Wind Dir	NW
S10	02 Feb 2021	Animal Life	None
S10	02 Feb 2021	Floatables	Foam
S10	02 Feb 2021	Water Color	Green
S10	02 Feb 2021	Current Direction	S
S10	02 Feb 2021	Water Temp (C)	16.1
S10	02 Feb 2021	Wave Height Low (ft)	4
S10	02 Feb 2021	High Tide (ft)	4.19
S10	02 Feb 2021	High Tide Time	1150
S10	02 Feb 2021	Low Tide (ft)	1.42
S10	02 Feb 2021	Low Tide Time	610
S10	02 Feb 2021	Comments	Water clear
S10	04 Feb 2021	Arrive Time	815
S10	04 Feb 2021	Weather	Partly Cloudy
S10	04 Feb 2021	Wind Speed (kts)	4.6
S10	04 Feb 2021	Wind Dir	S
S10	04 Feb 2021	Animal Life	Resample; 2 Godwits; 8 Plovers; 1 Seagull
S10	04 Feb 2021	Floatables	Foam
S10	04 Feb 2021	Water Color	Green
S10	04 Feb 2021	Current Direction	N
S10	04 Feb 2021	Water Temp (C)	15.3
S10	04 Feb 2021	Wave Height Low (ft)	3
S10	04 Feb 2021	High Tide (ft)	2.79
S10	04 Feb 2021	High Tide Time	1450
S10	04 Feb 2021	Low Tide (ft)	1.05
S10	04 Feb 2021	Low Tide Time	909
S10	04 Feb 2021	Comments	Kelp; Seagrass; Water clear
S10	06 Feb 2021	Arrive Time	740
S10	06 Feb 2021	Weather	Sunny
S10	06 Feb 2021	Wind Speed (kts)	5
S10	06 Feb 2021	Wind Dir	SE
S10	06 Feb 2021	Animal Life	1 Godwit; 50 Seagulls
S10	06 Feb 2021	Floatables	Foam/Film
S10	06 Feb 2021	Water Color	Blue
S10	06 Feb 2021	Current Direction	S
S10	06 Feb 2021	Water Temp (C)	13.3
S10	06 Feb 2021	Wave Height Low (ft)	3
S10	06 Feb 2021	High Tide (ft)	5.19
S10	06 Feb 2021	High Tide Time	412
S10	06 Feb 2021	Low Tide (ft)	-0.2
S10	06 Feb 2021	Low Tide Time	1158
S10	06 Feb 2021	Comments	Resample; Kelp; Water clear; Trash-2
S10	08 Feb 2021	Arrive Time	830
S10	08 Feb 2021	Weather	Overcast
S10	08 Feb 2021	Wind Speed (kts)	0
S10	08 Feb 2021	Wind Dir	

Station	Date	Parameter	Value
S10	08 Feb 2021	Animal Life	1 Godwit
S10	08 Feb 2021	Floatables	None
S10	08 Feb 2021	Water Color	Green
S10	08 Feb 2021	Current Direction	N
S10	08 Feb 2021	Water Temp (C)	15.3
S10	08 Feb 2021	Wave Height Low (ft)	3
S10	08 Feb 2021	High Tide (ft)	5.84
S10	08 Feb 2021	High Tide Time	611
S10	08 Feb 2021	Low Tide (ft)	-1.18
S10	08 Feb 2021	Low Tide Time	1337
S10	08 Feb 2021	Comments	Resample; Kelp; Debris-1; Water clear
S10	09 Feb 2021	Arrive Time	905
S10	09 Feb 2021	Weather	Overcast
S10	09 Feb 2021	Wind Speed (kts)	1.9
S10	09 Feb 2021	Wind Dir	E
S10	09 Feb 2021	Animal Life	1 Cormorant
S10	09 Feb 2021	Floatables	Foam; Film
S10	09 Feb 2021	Water Color	Green
S10	09 Feb 2021	Current Direction	SE
S10	09 Feb 2021	Water Temp (C)	15.4
S10	09 Feb 2021	Wave Height Low (ft)	2
S10	09 Feb 2021	High Tide (ft)	6.07
S10	09 Feb 2021	High Tide Time	700
S10	09 Feb 2021	Low Tide (ft)	-1.39
S10	09 Feb 2021	Low Tide Time	1417
S10	09 Feb 2021	Comments	Kelp; Seagrass; Debris; Water clear
S10	11 Feb 2021	Arrive Time	957
S10	11 Feb 2021	Weather	Sunny
S10	11 Feb 2021	Wind Speed (kts)	5.8
S10	11 Feb 2021	Wind Dir	NW
S10	11 Feb 2021	Animal Life	1 Pelican; 1 Godwit
S10	11 Feb 2021	Floatables	None
S10	11 Feb 2021	Water Color	Green
S10	11 Feb 2021	Current Direction	S
S10	11 Feb 2021	Water Temp (C)	17.2
S10	11 Feb 2021	Wave Height Low (ft)	4
S10	11 Feb 2021	High Tide (ft)	6.11
S10	11 Feb 2021	High Tide Time	824
S10	11 Feb 2021	Low Tide (ft)	-1.26
S10	11 Feb 2021	Low Tide Time	1526
S10	11 Feb 2021	Comments	Resample; Kelp; Seagrass; Debris; Trash-1; Water clear
S10	13 Feb 2021	Arrive Time	1058
S10	13 Feb 2021	Weather	Overcast
S10	13 Feb 2021	Wind Speed (kts)	7.1
S10	13 Feb 2021	Wind Dir	SW
S10	13 Feb 2021	Animal Life	None
S10	13 Feb 2021	Floatables	Foam; Film
S10	13 Feb 2021	Water Color	Green
S10	13 Feb 2021	Current Direction	N
S10	13 Feb 2021	Water Temp (C)	16.3
S10	13 Feb 2021	Wave Height Low (ft)	4
S10	13 Feb 2021	High Tide (ft)	5.49
S10	13 Feb 2021	High Tide Time	938
S10	13 Feb 2021	Low Tide (ft)	-0.59
S10	13 Feb 2021	Low Tide Time	1627
S10	13 Feb 2021	Comments	Resample; Kelp; Seagrass; 5 Persons; Water clear; Trash-1

Station	Date	Parameter	Value
S10	15 Feb 2021	Arrive Time	805
S10	15 Feb 2021	Weather	Partly Cloudy
S10	15 Feb 2021	Wind Speed (kts)	1.1
S10	15 Feb 2021	Wind Dir	E
S10	15 Feb 2021	Animal Life	1 Godwit
S10	15 Feb 2021	Floatables	Foam; Film; Laundry Detergent
S10	15 Feb 2021	Water Color	Brown
S10	15 Feb 2021	Current Direction	N
S10	15 Feb 2021	Water Temp (C)	15.6
S10	15 Feb 2021	Wave Height Low (ft)	4
S10	15 Feb 2021	High Tide (ft)	4.37
S10	15 Feb 2021	High Tide Time	1048
S10	15 Feb 2021	Low Tide (ft)	1.27
S10	15 Feb 2021	Low Tide Time	500
S10	15 Feb 2021	Comments	Resample; Kelp; Seagrass; Sewage-like odor; Water turbid; Trash-1
S10	16 Feb 2021	Arrive Time	902
S10	16 Feb 2021	Weather	Cloudy
S10	16 Feb 2021	Wind Speed (kts)	3.3
S10	16 Feb 2021	Wind Dir	W
S10	16 Feb 2021	Animal Life	None
S10	16 Feb 2021	Floatables	None
S10	16 Feb 2021	Water Color	Green
S10	16 Feb 2021	Current Direction	S
S10	16 Feb 2021	Water Temp (C)	16.5
S10	16 Feb 2021	Wave Height Low (ft)	4
S10	16 Feb 2021	High Tide (ft)	3.71
S10	16 Feb 2021	High Tide Time	1126
S10	16 Feb 2021	Low Tide (ft)	1.4
S10	16 Feb 2021	Low Tide Time	546
S10	16 Feb 2021	Comments	Seagrass; Kelp; Water clear; Trash-1
S10	18 Feb 2021	Arrive Time	855
S10	18 Feb 2021	Weather	Sunny
S10	18 Feb 2021	Wind Speed (kts)	4.4
S10	18 Feb 2021	Wind Dir	W
S10	18 Feb 2021	Animal Life	None
S10	18 Feb 2021	Floatables	Foam; Film
S10	18 Feb 2021	Water Color	Green
S10	18 Feb 2021	Current Direction	N
S10	18 Feb 2021	Water Temp (C)	13
S10	18 Feb 2021	Wave Height Low (ft)	3
S10	18 Feb 2021	High Tide (ft)	2.48
S10	18 Feb 2021	High Tide Time	1340
S10	18 Feb 2021	Low Tide (ft)	1.56
S10	18 Feb 2021	Low Tide Time	806
S10	18 Feb 2021	Comments	Resample; Water turbid; Trash-2
S10	20 Feb 2021	Arrive Time	1130
S10	20 Feb 2021	Weather	Cloudy
S10	20 Feb 2021	Wind Speed (kts)	4.6
S10	20 Feb 2021	Wind Dir	W
S10	20 Feb 2021	Animal Life	1 Godwit
S10	20 Feb 2021	Floatables	None
S10	20 Feb 2021	Water Color	Grey
S10	20 Feb 2021	Current Direction	S
S10	20 Feb 2021	Water Temp (C)	15.4
S10	20 Feb 2021	Wave Height Low (ft)	2
S10	20 Feb 2021	High Tide (ft)	2.74
S10	20 Feb 2021	High Tide Time	1919

Station	Date	Parameter	Value
S10	20 Feb 2021	Low Tide (ft)	0.88
S10	20 Feb 2021	Low Tide Time	1129
S10	20 Feb 2021	Comments	Resample; Sewage-like odor; Water turbid
S10	22 Feb 2021	Arrive Time	1045
S10	22 Feb 2021	Weather	Sunny
S10	22 Feb 2021	Wind Speed (kts)	7.3
S10	22 Feb 2021	Wind Dir	N
S10	22 Feb 2021	Animal Life	None
S10	22 Feb 2021	Floatables	Foam; Film
S10	22 Feb 2021	Water Color	Green
S10	22 Feb 2021	Current Direction	S
S10	22 Feb 2021	Water Temp (C)	16.7
S10	22 Feb 2021	Wave Height Low (ft)	2
S10	22 Feb 2021	High Tide (ft)	4.65
S10	22 Feb 2021	High Tide Time	514
S10	22 Feb 2021	Low Tide (ft)	-0.13
S10	22 Feb 2021	Low Tide Time	1254
S10	22 Feb 2021	Comments	Resample; Water turbid; Trash-3
S10	23 Feb 2021	Arrive Time	752
S10	23 Feb 2021	Weather	Sunny
S10	23 Feb 2021	Wind Speed (kts)	1.1
S10	23 Feb 2021	Wind Dir	E
S10	23 Feb 2021	Animal Life	1 Pelican
S10	23 Feb 2021	Floatables	Foam; Film; Soap
S10	23 Feb 2021	Water Color	Green
S10	23 Feb 2021	Current Direction	S
S10	23 Feb 2021	Water Temp (C)	13.3
S10	23 Feb 2021	Wave Height Low (ft)	4
S10	23 Feb 2021	High Tide (ft)	5.09
S10	23 Feb 2021	High Tide Time	602
S10	23 Feb 2021	Low Tide (ft)	-0.56
S10	23 Feb 2021	Low Tide Time	1326
S10	23 Feb 2021	Comments	Kelp; Seagrass; Trash-1; Water clear
S10	25 Feb 2021	Arrive Time	945
S10	25 Feb 2021	Weather	Sunny
S10	25 Feb 2021	Wind Speed (kts)	6.8
S10	25 Feb 2021	Wind Dir	NW
S10	25 Feb 2021	Animal Life	1 Godwit
S10	25 Feb 2021	Floatables	None
S10	25 Feb 2021	Water Color	Green
S10	25 Feb 2021	Current Direction	S
S10	25 Feb 2021	Water Temp (C)	17.5
S10	25 Feb 2021	Wave Height Low (ft)	4
S10	25 Feb 2021	High Tide (ft)	5.86
S10	25 Feb 2021	High Tide Time	723
S10	25 Feb 2021	Low Tide (ft)	-1.14
S10	25 Feb 2021	Low Tide Time	1427
S10	25 Feb 2021	Comments	Resample; Water clear; Trash-2
S10	27 Feb 2021	Arrive Time	1022
S10	27 Feb 2021	Weather	Sunny
S10	27 Feb 2021	Wind Speed (kts)	5
S10	27 Feb 2021	Wind Dir	SW
S10	27 Feb 2021	Animal Life	50 Seagulls
S10	27 Feb 2021	Floatables	Foam; Film; Soap
S10	27 Feb 2021	Water Color	Green
S10	27 Feb 2021	Current Direction	N
S10	27 Feb 2021	Water Temp (C)	16.4

Station	Date	Parameter	Value
S10	27 Feb 2021	Wave Height Low (ft)	5
S10	27 Feb 2021	High Tide (ft)	6.04
S10	27 Feb 2021	High Tide Time	841
S10	27 Feb 2021	Low Tide (ft)	-1.11
S10	27 Feb 2021	Low Tide Time	1529
S10	27 Feb 2021	Comments	Resample; Kelp; Seagrass; Water clear; Trash-1
S11	02 Feb 2021	Arrive Time	950
S11	02 Feb 2021	Weather	Cloudy
S11	02 Feb 2021	Wind Speed (kts)	6.6
S11	02 Feb 2021	Wind Dir	NW
S11	02 Feb 2021	Animal Life	1 Dog
S11	02 Feb 2021	Floatables	Foam; Film
S11	02 Feb 2021	Water Color	Green
S11	02 Feb 2021	Current Direction	S
S11	02 Feb 2021	Water Temp (C)	16.2
S11	02 Feb 2021	Wave Height Low (ft)	5
S11	02 Feb 2021	High Tide (ft)	4.19
S11	02 Feb 2021	High Tide Time	1150
S11	02 Feb 2021	Low Tide (ft)	1.42
S11	02 Feb 2021	Low Tide Time	610
S11	02 Feb 2021	Comments	Kelp; Seagrass; 1 Person; Water turbid
S11	09 Feb 2021	Arrive Time	1052
S11	09 Feb 2021	Weather	Overcast
S11	09 Feb 2021	Wind Speed (kts)	1.5
S11	09 Feb 2021	Wind Dir	W
S11	09 Feb 2021	Animal Life	1 Godwit
S11	09 Feb 2021	Floatables	Foam; Film
S11	09 Feb 2021	Water Color	Green
S11	09 Feb 2021	Current Direction	N
S11	09 Feb 2021	Water Temp (C)	13
S11	09 Feb 2021	Wave Height Low (ft)	3
S11	09 Feb 2021	High Tide (ft)	6.07
S11	09 Feb 2021	High Tide Time	700
S11	09 Feb 2021	Low Tide (ft)	-1.39
S11	09 Feb 2021	Low Tide Time	1417
S11	09 Feb 2021	Comments	Kelp; Seagrass; Sewage-like odor; Water clear
S11	16 Feb 2021	Arrive Time	803
S11	16 Feb 2021	Weather	Cloudy
S11	16 Feb 2021	Wind Speed (kts)	4.6
S11	16 Feb 2021	Wind Dir	W
S11	16 Feb 2021	Animal Life	6 Seagulls
S11	16 Feb 2021	Floatables	None
S11	16 Feb 2021	Water Color	Green
S11	16 Feb 2021	Current Direction	S
S11	16 Feb 2021	Water Temp (C)	16
S11	16 Feb 2021	Wave Height Low (ft)	3
S11	16 Feb 2021	High Tide (ft)	3.71
S11	16 Feb 2021	High Tide Time	1126
S11	16 Feb 2021	Low Tide (ft)	1.4
S11	16 Feb 2021	Low Tide Time	546
S11	16 Feb 2021	Comments	Kelp; Seagrass; Debris; Water clear; Trash-1
S11	18 Feb 2021	Arrive Time	844
S11	18 Feb 2021	Weather	Sunny
S11	18 Feb 2021	Wind Speed (kts)	0
S11	18 Feb 2021	Wind Dir	
S11	18 Feb 2021	Animal Life	1 Plover; 2 Seagulls; 1 Tern
S11	18 Feb 2021	Floatables	Foam; Film

Station	Date	Parameter	Value
S11	18 Feb 2021	Water Color	Green
S11	18 Feb 2021	Current Direction	S
S11	18 Feb 2021	Water Temp (C)	15.9
S11	18 Feb 2021	Wave Height Low (ft)	4
S11	18 Feb 2021	High Tide (ft)	2.48
S11	18 Feb 2021	High Tide Time	1340
S11	18 Feb 2021	Low Tide (ft)	1.56
S11	18 Feb 2021	Low Tide Time	806
S11	18 Feb 2021	Comments	Resample; Kelp; Seagrass; Water turbid; Trash-1
S11	23 Feb 2021	Arrive Time	929
S11	23 Feb 2021	Weather	Sunny
S11	23 Feb 2021	Wind Speed (kts)	5.6
S11	23 Feb 2021	Wind Dir	NW
S11	23 Feb 2021	Animal Life	1 Dog; 6 Godwits
S11	23 Feb 2021	Floatables	Foam; Film; Soap
S11	23 Feb 2021	Water Color	Green
S11	23 Feb 2021	Current Direction	S
S11	23 Feb 2021	Water Temp (C)	15
S11	23 Feb 2021	Wave Height Low (ft)	3
S11	23 Feb 2021	High Tide (ft)	5.09
S11	23 Feb 2021	High Tide Time	602
S11	23 Feb 2021	Low Tide (ft)	-0.56
S11	23 Feb 2021	Low Tide Time	1326
S11	23 Feb 2021	Comments	Kelp; Seagrass; 2 Persons; Water clear
S12	02 Feb 2021	Arrive Time	1015
S12	02 Feb 2021	Weather	Cloudy
S12	02 Feb 2021	Wind Speed (kts)	5.2
S12	02 Feb 2021	Wind Dir	NW
S12	02 Feb 2021	Animal Life	2 Grebes; 1 Godwit
S12	02 Feb 2021	Floatables	Foam; Film
S12	02 Feb 2021	Water Color	Green
S12	02 Feb 2021	Current Direction	S
S12	02 Feb 2021	Water Temp (C)	16.1
S12	02 Feb 2021	Wave Height Low (ft)	3
S12	02 Feb 2021	High Tide (ft)	4.19
S12	02 Feb 2021	High Tide Time	1150
S12	02 Feb 2021	Low Tide (ft)	1.42
S12	02 Feb 2021	Low Tide Time	610
S12	02 Feb 2021	Comments	Kelp; 2 Persons; 1 Fisherman; Water clear
S12	09 Feb 2021	Arrive Time	950
S12	09 Feb 2021	Weather	Cloudy
S12	09 Feb 2021	Wind Speed (kts)	1.3
S12	09 Feb 2021	Wind Dir	E
S12	09 Feb 2021	Animal Life	24 Cormorants; 1 Godwit; 1 Dog
S12	09 Feb 2021	Floatables	None
S12	09 Feb 2021	Water Color	Green
S12	09 Feb 2021	Current Direction	N
S12	09 Feb 2021	Water Temp (C)	12
S12	09 Feb 2021	Wave Height Low (ft)	2
S12	09 Feb 2021	High Tide (ft)	6.07
S12	09 Feb 2021	High Tide Time	700
S12	09 Feb 2021	Low Tide (ft)	-1.39
S12	09 Feb 2021	Low Tide Time	1417
S12	09 Feb 2021	Comments	Kelp; 2 Persons; Water clear
S12	16 Feb 2021	Arrive Time	948
S12	16 Feb 2021	Weather	Partly Cloudy
S12	16 Feb 2021	Wind Speed (kts)	4.4

Station	Date	Parameter	Value
S12	16 Feb 2021	Wind Dir	W
S12	16 Feb 2021	Animal Life	3 Dogs; 2 Godwits
S12	16 Feb 2021	Floatables	Foam; Film
S12	16 Feb 2021	Water Color	Green
S12	16 Feb 2021	Current Direction	S
S12	16 Feb 2021	Water Temp (C)	17.5
S12	16 Feb 2021	Wave Height Low (ft)	3
S12	16 Feb 2021	High Tide (ft)	3.71
S12	16 Feb 2021	High Tide Time	1126
S12	16 Feb 2021	Low Tide (ft)	1.4
S12	16 Feb 2021	Low Tide Time	546
S12	16 Feb 2021	Comments	Kelp; Seagrass; 2 Persons; Water turbid
S12	23 Feb 2021	Arrive Time	830
S12	23 Feb 2021	Weather	Sunny
S12	23 Feb 2021	Wind Speed (kts)	1.5
S12	23 Feb 2021	Wind Dir	SE
S12	23 Feb 2021	Animal Life	30 Cormorants; 2 Dogs; 2 Godwits; 2 Seagulls
S12	23 Feb 2021	Floatables	Foam; Film
S12	23 Feb 2021	Water Color	Green
S12	23 Feb 2021	Current Direction	S
S12	23 Feb 2021	Water Temp (C)	14.9
S12	23 Feb 2021	Wave Height Low (ft)	3
S12	23 Feb 2021	High Tide (ft)	5.09
S12	23 Feb 2021	High Tide Time	602
S12	23 Feb 2021	Low Tide (ft)	-0.56
S12	23 Feb 2021	Low Tide Time	1326
S12	23 Feb 2021	Comments	Kelp; Seagrass; 4 Persons; 1 Surfer; Water clear

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# Kelp Stations



**Table 3.1**

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (\*). Values >1,000 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2021	2359	117	123	74	20	71	537
02 Feb 2021	2359	117	123	74	20	71	537
03 Feb 2021	2359	117	123	74	20	71	537
04 Feb 2021	1721	324	238	130	22	132	706
05 Feb 2021	1721	324	238	130	22	132	706
06 Feb 2021	1721	324	238	130	22	132	706
07 Feb 2021	1721	324	238	130	22	132	706
08 Feb 2021	1017	459	396	174	21	233	1225
09 Feb 2021	1017	459	396	174	21	233	1225
10 Feb 2021	1017	459	396	174	21	233	1225
11 Feb 2021	1017	459	396	174	21	233	1225
12 Feb 2021	632	646	767	467	39	362	1923
13 Feb 2021	632	646	767	467	39	362	1923
14 Feb 2021	632	646	767	467	39	362	1923
15 Feb 2021	632	646	767	467	39	362	1923
16 Feb 2021	632	646	767	467	39	362	1923
17 Feb 2021	632	646	767	467	39	362	1923
18 Feb 2021	2592	418	587	262	25	149	2497
19 Feb 2021	2592	418	587	262	25	149	2497
20 Feb 2021	2592	418	587	262	25	149	2497
21 Feb 2021	2592	418	587	262	25	149	2497
22 Feb 2021	1753	228	283	140	15	70	951
23 Feb 2021	1753	228	283	140	15	70	951
24 Feb 2021	1753	228	283	140	15	70	951
25 Feb 2021	1753	228	283	140	15	70	951
26 Feb 2021	1189	119	184	67	8	58	626
27 Feb 2021	1189	119	184	67	8	58	626
28 Feb 2021	1189	119	184	67	8	58	626

\* Geometric mean calculated using n<5

**Table 3.2**

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (\*). Values >200 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2021	458	19	19	15	3	10	109
02 Feb 2021	458	19	19	15	3	10	109
03 Feb 2021	458	19	19	15	3	10	109
04 Feb 2021	271	33	34	26	3	14	115
05 Feb 2021	271	33	34	26	3	14	115
06 Feb 2021	271	33	34	26	3	14	115
07 Feb 2021	271	33	34	26	3	14	115
08 Feb 2021	160	60	56	36	4	27	244
09 Feb 2021	160	60	56	36	4	27	244
10 Feb 2021	160	60	56	36	4	27	244
11 Feb 2021	160	60	56	36	4	27	244
12 Feb 2021	80	94	86	75	5	33	271
13 Feb 2021	80	94	86	75	5	33	271
14 Feb 2021	80	94	86	75	5	33	271
15 Feb 2021	80	94	86	75	5	33	271
16 Feb 2021	80	94	86	75	5	33	271
17 Feb 2021	80	94	86	75	5	33	271
18 Feb 2021	376	83	86	75	5	28	437
19 Feb 2021	376	83	86	75	5	28	437
20 Feb 2021	376	83	86	75	5	28	437
21 Feb 2021	376	83	86	75	5	28	437
22 Feb 2021	319	58	48	42	4	19	149
23 Feb 2021	319	58	48	42	4	19	149
24 Feb 2021	319	58	48	42	4	19	149
25 Feb 2021	319	58	48	42	4	19	149
26 Feb 2021	263	38	33	21	3	20	108
27 Feb 2021	263	38	33	21	3	20	108
28 Feb 2021	263	38	33	21	3	20	108

\* Geometric mean calculated using n<5

**Table 3.3**

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (\*). Values >35 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2021	162	13	11	10	4	5	40
02 Feb 2021	162	13	11	10	4	5	40
03 Feb 2021	162	13	11	10	4	5	40
04 Feb 2021	102	20	17	15	5	7	48
05 Feb 2021	102	20	17	15	5	7	48
06 Feb 2021	102	20	17	15	5	7	48
07 Feb 2021	102	20	17	15	5	7	48
08 Feb 2021	85	32	27	19	4	12	119
09 Feb 2021	85	32	27	19	4	12	119
10 Feb 2021	85	32	27	19	4	12	119
11 Feb 2021	85	32	27	19	4	12	119
12 Feb 2021	58	61	51	34	5	17	172
13 Feb 2021	58	61	51	34	5	17	172
14 Feb 2021	58	61	51	34	5	17	172
15 Feb 2021	58	61	51	34	5	17	172
16 Feb 2021	58	61	51	34	5	17	172
17 Feb 2021	58	61	51	34	5	17	172
18 Feb 2021	173	65	51	32	5	14	289
19 Feb 2021	173	65	51	32	5	14	289
20 Feb 2021	173	65	51	32	5	14	289
21 Feb 2021	173	65	51	32	5	14	289
22 Feb 2021	154	44	27	18	4	9	130
23 Feb 2021	154	44	27	18	4	9	130
24 Feb 2021	154	44	27	18	4	9	130
25 Feb 2021	154	44	27	18	4	9	130
26 Feb 2021	123	32	18	10	3	13	112
27 Feb 2021	123	32	18	10	3	13	112
28 Feb 2021	123	32	18	10	3	13	112

\* Geometric mean calculated using n<5

**Table 3.4**

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2021	IC	IC	IC	IC	IC	IC	E
08 Feb 2021	IC	IC	IC	IC	IC	IC	E
18 Feb 2021	E	IC	IC	IC	IC	IC	IC
22 Feb 2021	IC						

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 3.5**

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2021	E	IC	IC	IC	IC	IC	E
08 Feb 2021	IC	E	E	E	IC	E	E
18 Feb 2021	E	IC	IC	IC	IC	IC	IC
22 Feb 2021	E	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 3.6**

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2021	E	E	E	IC	IC	IC	E
08 Feb 2021	IC	E	E	E	IC	E	E
18 Feb 2021	E	IC	IC	IC	IC	IC	IC
22 Feb 2021	E	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 3.7**

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2021	E	IC	E	E	IC	E	E
08 Feb 2021	IC	E	E	E	IC	E	E
18 Feb 2021	E	IC	IC	IC	IC	IC	IC
22 Feb 2021	IC						

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 3.8**

Summary of water quality parameters at the SBOO kelp stations for each sample date. Densities of total coliform (Total), fecal coliform (Fecal) and *Enterococcus* (Enter) bacteria are reported as CFU/100 mL; the fecal:total coliform ratio (F:T) is unitless; values for temperature (Temp, °C), transmissivity (XMS, %), dissolved oxygen (DO, mg/L), salinity (Sal, ppt) and pH were extracted from CTD profile data for depths closest to those at which the bacteriological samples were collected. Comments follow the data summary.

Station	Date	Time	Depth	Total	Fecal	Enter	F:T	Temp	XMS	DO	Sal	pH
I19	01 Feb 2021	1214	2	8800	660	120	0.07	14.8	55.39	8.5	33.34	8.2
I19	01 Feb 2021	1214	6	2600e	980	160e	0.38	14.6	61.30	8.2	33.49	8.2
I19	01 Feb 2021	1214	11	4200	660	120e	0.16	14.5	54.59	7.9	33.52	8.2
I19	08 Feb 2021	1108	2	12e	<2	6e	0.17	14.7	67.42	8.2	33.53	8.2
I19	08 Feb 2021	1108	6	<200	26e	58	0.13	14.3	68.54	7.6	33.54	8.1
I19	08 Feb 2021	1108	11	160e	30e	60	0.19	14.2	61.60	7.2	33.54	8.1
I19	18 Feb 2021	1057	2	>16000	4400	960	0.28	15.1	43.83	9.5	33.39	8.2
I19	18 Feb 2021	1057	6	5200	980	220e	0.19	14.8	52.70	7.9	33.52	8.2
I19	18 Feb 2021	1057	11	4200	460	110	0.11	13.7	21.99	5.1	33.57	7.9
I19	22 Feb 2021	1012	2	1000e	460	260e	0.46	13.2	44.29	6.4	33.55	7.9
I19	22 Feb 2021	1012	6	80e	36e	18e	0.45	12.9	49.96	5.8	33.63	7.9
I19	22 Feb 2021	1012	11	20e	2e	8e	0.10	12.6	37.97	4.9	33.63	7.9
I24	01 Feb 2021	1239	2	1600e	120	64	0.07	14.7	60.75	8.6	33.41	8.2
I24	01 Feb 2021	1239	6	2200e	160e	100e	0.07	14.6	62.03	7.9	33.48	8.2
I24	01 Feb 2021	1239	11	4400	60e	440	0.01	14.4	48.17	6.8	33.54	8.1
I24	08 Feb 2021	1131	2	4800	1800e	600	0.38	14.8	67.62	8.8	33.37	8.2
I24	08 Feb 2021	1131	6	480	56	12e	0.12	14.4	76.08	8.1	33.55	8.2
I24	08 Feb 2021	1131	11	240e	30e	34e	0.12	14.0	63.95	7.1	33.53	8.1
I24	18 Feb 2021	1119	2	<2	<2	<2	1.00	14.9	60.42	8.3	33.55	8.2
I24	18 Feb 2021	1119	6	<2	<2	<2	1.00	14.6	61.05	8.1	33.55	8.2
I24	18 Feb 2021	1119	11	2e	<2	4e	1.00	13.7	64.36	6.3	33.59	8.0
I24	22 Feb 2021	1031	2	20e	20e	<20	1.00	13.6	63.08	7.3	33.60	8.0
I24	22 Feb 2021	1031	6	20e	18e	4e	0.90	12.8	76.03	5.9	33.61	8.0
I24	22 Feb 2021	1031	11	20e	6e	4e	0.30	12.7	78.34	5.7	33.59	7.9
I25	01 Feb 2021	1247	2	2000e	260e	58	0.13	14.8	58.82	8.5	33.41	8.2
I25	01 Feb 2021	1247	6	2400e	280e	78	0.12	14.5	62.95	7.8	33.48	8.2
I25	01 Feb 2021	1247	9	4800	320e	340e	0.07	14.5	33.02	6.8	33.51	8.1
I25	08 Feb 2021	1141	2	8200	1200e	460	0.15	14.9	67.27	8.5	33.42	8.2
I25	08 Feb 2021	1141	6	500	36e	10e	0.07	14.3	69.12	7.2	33.55	8.1
I25	08 Feb 2021	1141	9	360e	38e	10e	0.11	14.0	71.60	7.0	33.54	8.1
I25	18 Feb 2021	1127	2	<2	<2	<2	1.00	14.8	45.89	8.2	33.56	8.2
I25	18 Feb 2021	1127	6	<20	<2	<2	0.10	14.1	57.60	7.0	33.56	8.1
I25	18 Feb 2021	1127	9	<2	<2	<2	1.00	13.7	65.87	6.4	33.57	8.0
I25	22 Feb 2021	1040	2	2e	<2	<2	1.00	13.6	56.97	7.4	33.60	8.1
I25	22 Feb 2021	1040	6	22e	6e	<2	0.27	12.6	81.59	5.6	33.58	7.9
I25	22 Feb 2021	1040	9	22e	6e	<2	0.27	12.6	81.27	5.7	33.58	7.9

Station	Date	Time	Depth	Total	Fecal	Enter	F:T	Temp	XMS	DO	Sal	pH
I26	01 Feb 2021	1259	2	3000e	340e	44	0.11	14.7	64.18	8.5	33.45	8.2
I26	01 Feb 2021	1259	6	1400e	110	30e	0.08	14.6	64.19	7.9	33.47	8.2
I26	01 Feb 2021	1259	9	480	34e	56	0.07	14.5	66.66	7.2	33.51	8.2
I26	08 Feb 2021	1203	2	1500	420	160e	0.28	14.9	64.61	8.7	33.34	8.2
I26	08 Feb 2021	1203	6	40e	8e	2e	0.20	14.2	79.49	7.8	33.54	8.2
I26	08 Feb 2021	1203	9	140e	18e	8e	0.13	13.9	78.83	7.3	33.53	8.1
I26	18 Feb 2021	1137	2	<2	<2	<2	1.00	14.8	69.80	8.7	33.55	8.2
I26	18 Feb 2021	1137	6	<2	2e	<2	1.00	13.8	71.13	6.9	33.57	8.1
I26	18 Feb 2021	1137	9	<2	<2	<2	1.00	13.5	69.45	6.3	33.58	8.0
I26	22 Feb 2021	1050	2	<2	<2	<2	1.00	13.8	59.20	7.5	33.59	8.1
I26	22 Feb 2021	1050	6	12e	2e	<2	0.17	12.4	80.68	5.3	33.61	7.9
I26	22 Feb 2021	1050	9	<20	8e	<2	0.40	12.4	80.43	5.3	33.60	7.9
I32	01 Feb 2021	1312	2	4e	<2	<2	0.50	14.8	64.32	8.8	33.48	8.2
I32	01 Feb 2021	1312	6	50	<2	6e	0.04	14.6	61.13	8.6	33.48	8.2
I32	01 Feb 2021	1312	9	140e	<2	18e	0.01	14.6	53.77	8.1	33.50	8.2
I32	08 Feb 2021	1220	2	<20	18e	8e	0.90	15.1	68.24	8.9	33.50	8.2
I32	08 Feb 2021	1220	6	20e	<2	<2	0.10	14.8	67.58	8.3	33.56	8.2
I32	08 Feb 2021	1220	9	<20	<2	<2	0.10	13.9	51.83	6.7	33.56	8.1
I32	18 Feb 2021	1150	2	<2	<2	<2	1.00	15.1	61.19	8.9	33.55	8.2
I32	18 Feb 2021	1150	6	<2	<2	<2	1.00	14.5	45.52	8.2	33.55	8.2
I32	18 Feb 2021	1150	9	2e	<2	<2	1.00	14.2	38.22	7.2	33.56	8.1
I32	22 Feb 2021	1102	2	<2	<2	<2	1.00	13.8	48.07	6.5	33.61	8.0
I32	22 Feb 2021	1102	6	2e	<2	<2	1.00	13.2	49.54	5.8	33.61	8.0
I32	22 Feb 2021	1102	9	<2	<2	<2	1.00	12.8	67.17	5.3	33.63	7.9
I39	01 Feb 2021	1150	2	1200e	160e	44	0.13	14.6	63.34	8.6	33.47	8.2
I39	01 Feb 2021	1150	12	360	8e	66	0.02	14.3	75.89	7.3	33.55	8.2
I39	01 Feb 2021	1150	18	200e	20e	34e	0.10	13.9	69.86	6.5	33.57	8.1
I39	08 Feb 2021	1044	2	6600	1000	440	0.15	14.5	67.58	8.6	33.42	8.2
I39	08 Feb 2021	1044	12	92	18e	2e	0.20	13.8	81.79	7.1	33.55	8.1
I39	08 Feb 2021	1044	18	20e	2e	2e	0.10	13.5	82.29	6.6	33.56	8.1
I39	18 Feb 2021	1034	2	2e	<2	<2	1.00	14.9	73.68	8.7	33.55	8.2
I39	18 Feb 2021	1034	12	4e	<2	<2	0.50	13.3	81.88	6.4	33.58	8.0
I39	18 Feb 2021	1034	18	2e	<2	<2	1.00	13.0	77.83	5.9	33.61	8.0
I39	22 Feb 2021	954	2	<2	<2	<2	1.00	14.0	74.00	8.5	33.56	8.2
I39	22 Feb 2021	954	12	2e	2e	<2	1.00	13.3	81.68	7.2	33.56	8.0
I39	22 Feb 2021	954	18	6e	8e	<2	1.33	12.3	83.39	5.4	33.61	7.9
I40	01 Feb 2021	1228	2	>16000	1800e	320e	0.11	14.8	48.54	8.0	33.26	8.2
I40	01 Feb 2021	1228	6	2800e	380e	460	0.14	14.6	62.16	7.6	33.54	8.2
I40	01 Feb 2021	1228	9	2600e	100e	480	0.04	14.5	65.08	7.1	33.54	8.2
I40	08 Feb 2021	1120	2	>16000	>12000	>12000	0.75	14.8	30.50	7.8	32.46	8.1
I40	08 Feb 2021	1120	6	12000	2200e	780	0.18	14.4	65.04	7.6	33.51	8.2

<b>Station</b>	<b>Date</b>	<b>Time</b>	<b>Depth</b>	<b>Total</b>	<b>Fecal</b>	<b>Enteric</b>	<b>F:T</b>	<b>Temp</b>	<b>XMS</b>	<b>DO</b>	<b>Sal</b>	<b>pH</b>
I40	08 Feb 2021	1120	9	5400	960	300e	0.18	14.2	55.43	7.0	33.53	8.1
I40	18 Feb 2021	1110	2	10e	2e	<2	0.20	14.8	39.79	8.1	33.55	8.1
I40	18 Feb 2021	1110	6	180e	26e	2e	0.14	14.6	33.44	7.9	33.56	8.1
I40	18 Feb 2021	1110	9	100e	26e	44	0.26	13.7	28.77	5.2	33.58	7.9
I40	22 Feb 2021	1023	2	<20	<2	<2	0.10	13.6	52.21	7.1	33.61	8.0
I40	22 Feb 2021	1023	6	<20	2e	<2	0.10	12.7	56.18	5.1	33.62	7.9
I40	22 Feb 2021	1023	9	20e	2e	12e	0.10	12.6	35.91	5.0	33.62	7.9

ns = not sampled

ND = no data

**Table 3.9**

Summary of visual observations made during the month for each SBOO kelp station by sample date.

Station	Date	Parameter	Value
I19	01 Feb 2021	Depth (m)	12
I19	01 Feb 2021	Arrive Time	1214
I19	01 Feb 2021	Depart Time	1218
I19	01 Feb 2021	Air Temp (C)	16
I19	01 Feb 2021	Weather	Continuous layer of clouds
I19	01 Feb 2021	Visibility (mi)	12
I19	01 Feb 2021	Wind Speed (kts)	2
I19	01 Feb 2021	Wind Dir	W
I19	01 Feb 2021	Water Color	Green
I19	01 Feb 2021	Wave Ht Low (ft)	3
I19	01 Feb 2021	Wave Period (sec)	13
I19	01 Feb 2021	Sea State	Calm
I19	01 Feb 2021	High Tide (ft)	4.96
I19	01 Feb 2021	High Tide Time	1056
I19	01 Feb 2021	Low Tide (ft)	1.41
I19	01 Feb 2021	Low Tide Time	506
I19	01 Feb 2021	Comments	none
I19	08 Feb 2021	Depth (m)	11
I19	08 Feb 2021	Arrive Time	1108
I19	08 Feb 2021	Depart Time	1114
I19	08 Feb 2021	Air Temp (C)	12
I19	08 Feb 2021	Weather	Overcast
I19	08 Feb 2021	Visibility (mi)	5
I19	08 Feb 2021	Wind Speed (kts)	5
I19	08 Feb 2021	Wind Dir	SW
I19	08 Feb 2021	Water Color	Greenish-Brown
I19	08 Feb 2021	Wave Ht Low (ft)	3
I19	08 Feb 2021	Wave Period (sec)	13
I19	08 Feb 2021	Sea State	Calm
I19	08 Feb 2021	High Tide (ft)	5.84
I19	08 Feb 2021	High Tide Time	611
I19	08 Feb 2021	Low Tide (ft)	-1.18
I19	08 Feb 2021	Low Tide Time	1337
I19	08 Feb 2021	Comments	Boats
I19	18 Feb 2021	Depth (m)	11
I19	18 Feb 2021	Arrive Time	1057
I19	18 Feb 2021	Depart Time	1059
I19	18 Feb 2021	Air Temp (C)	15
I19	18 Feb 2021	Weather	Haze
I19	18 Feb 2021	Visibility (mi)	13
I19	18 Feb 2021	Wind Speed (kts)	8
I19	18 Feb 2021	Wind Dir	NW
I19	18 Feb 2021	Water Color	Brown
I19	18 Feb 2021	Wave Ht Low (ft)	3
I19	18 Feb 2021	Wave Period (sec)	9
I19	18 Feb 2021	Sea State	Calm
I19	18 Feb 2021	High Tide (ft)	2.48
I19	18 Feb 2021	High Tide Time	1340
I19	18 Feb 2021	Low Tide (ft)	1.56
I19	18 Feb 2021	Low Tide Time	806
I19	18 Feb 2021	Comments	none
I19	22 Feb 2021	Depth (m)	11
I19	22 Feb 2021	Arrive Time	1012

Station	Date	Parameter	Value
I19	22 Feb 2021	Depart Time	1014
I19	22 Feb 2021	Air Temp (C)	17
I19	22 Feb 2021	Weather	Haze
I19	22 Feb 2021	Visibility (mi)	13
I19	22 Feb 2021	Wind Speed (kts)	4
I19	22 Feb 2021	Wind Dir	W
I19	22 Feb 2021	Water Color	Brown
I19	22 Feb 2021	Wave Ht Low (ft)	3
I19	22 Feb 2021	Wave Period (sec)	11
I19	22 Feb 2021	Sea State	Calm
I19	22 Feb 2021	High Tide (ft)	4.65
I19	22 Feb 2021	High Tide Time	514
I19	22 Feb 2021	Low Tide (ft)	-0.13
I19	22 Feb 2021	Low Tide Time	1254
I19	22 Feb 2021	Comments	none
I24	01 Feb 2021	Depth (m)	11
I24	01 Feb 2021	Arrive Time	1239
I24	01 Feb 2021	Depart Time	1243
I24	01 Feb 2021	Air Temp (C)	15
I24	01 Feb 2021	Weather	Continuous layer of clouds
I24	01 Feb 2021	Visibility (mi)	12
I24	01 Feb 2021	Wind Speed (kts)	4
I24	01 Feb 2021	Wind Dir	NW
I24	01 Feb 2021	Water Color	Green
I24	01 Feb 2021	Wave Ht Low (ft)	3
I24	01 Feb 2021	Wave Period (sec)	13
I24	01 Feb 2021	Sea State	Calm
I24	01 Feb 2021	High Tide (ft)	4.96
I24	01 Feb 2021	High Tide Time	1056
I24	01 Feb 2021	Low Tide (ft)	1.41
I24	01 Feb 2021	Low Tide Time	506
I24	01 Feb 2021	Comments	none
I24	08 Feb 2021	Depth (m)	10
I24	08 Feb 2021	Arrive Time	1131
I24	08 Feb 2021	Depart Time	1137
I24	08 Feb 2021	Air Temp (C)	12
I24	08 Feb 2021	Weather	Overcast
I24	08 Feb 2021	Visibility (mi)	5
I24	08 Feb 2021	Wind Speed (kts)	5
I24	08 Feb 2021	Wind Dir	S
I24	08 Feb 2021	Water Color	Greenish-Brown
I24	08 Feb 2021	Wave Ht Low (ft)	3
I24	08 Feb 2021	Wave Period (sec)	13
I24	08 Feb 2021	Sea State	Calm
I24	08 Feb 2021	High Tide (ft)	5.84
I24	08 Feb 2021	High Tide Time	611
I24	08 Feb 2021	Low Tide (ft)	-1.18
I24	08 Feb 2021	Low Tide Time	1337
I24	08 Feb 2021	Comments	none
I24	18 Feb 2021	Depth (m)	9
I24	18 Feb 2021	Arrive Time	1119
I24	18 Feb 2021	Depart Time	1120
I24	18 Feb 2021	Air Temp (C)	15
I24	18 Feb 2021	Weather	Haze
I24	18 Feb 2021	Visibility (mi)	13
I24	18 Feb 2021	Wind Speed (kts)	7
I24	18 Feb 2021	Wind Dir	W
I24	18 Feb 2021	Water Color	Brown

Station	Date	Parameter	Value
I24	18 Feb 2021	Wave Ht Low (ft)	3
I24	18 Feb 2021	Wave Period (sec)	9
I24	18 Feb 2021	Sea State	Calm
I24	18 Feb 2021	High Tide (ft)	2.48
I24	18 Feb 2021	High Tide Time	1340
I24	18 Feb 2021	Low Tide (ft)	1.56
I24	18 Feb 2021	Low Tide Time	806
I24	18 Feb 2021	Comments	none
I24	22 Feb 2021	Depth (m)	9
I24	22 Feb 2021	Arrive Time	1031
I24	22 Feb 2021	Depart Time	1034
I24	22 Feb 2021	Air Temp (C)	16
I24	22 Feb 2021	Weather	Haze
I24	22 Feb 2021	Visibility (mi)	13
I24	22 Feb 2021	Wind Speed (kts)	8
I24	22 Feb 2021	Wind Dir	NW
I24	22 Feb 2021	Water Color	Brown
I24	22 Feb 2021	Wave Ht Low (ft)	3
I24	22 Feb 2021	Wave Period (sec)	11
I24	22 Feb 2021	Sea State	Calm
I24	22 Feb 2021	High Tide (ft)	4.65
I24	22 Feb 2021	High Tide Time	514
I24	22 Feb 2021	Low Tide (ft)	-0.13
I24	22 Feb 2021	Low Tide Time	1254
I24	22 Feb 2021	Comments	none
I25	01 Feb 2021	Depth (m)	10
I25	01 Feb 2021	Arrive Time	1247
I25	01 Feb 2021	Depart Time	1256
I25	01 Feb 2021	Air Temp (C)	15
I25	01 Feb 2021	Weather	Continuous layer of clouds
I25	01 Feb 2021	Visibility (mi)	12
I25	01 Feb 2021	Wind Speed (kts)	4
I25	01 Feb 2021	Wind Dir	W
I25	01 Feb 2021	Water Color	Green
I25	01 Feb 2021	Wave Ht Low (ft)	3
I25	01 Feb 2021	Wave Period (sec)	13
I25	01 Feb 2021	Sea State	Calm
I25	01 Feb 2021	High Tide (ft)	4.96
I25	01 Feb 2021	High Tide Time	1056
I25	01 Feb 2021	Low Tide (ft)	1.41
I25	01 Feb 2021	Low Tide Time	506
I25	01 Feb 2021	Comments	none
I25	08 Feb 2021	Depth (m)	8
I25	08 Feb 2021	Arrive Time	1141
I25	08 Feb 2021	Depart Time	1159
I25	08 Feb 2021	Air Temp (C)	12
I25	08 Feb 2021	Weather	Overcast
I25	08 Feb 2021	Visibility (mi)	5
I25	08 Feb 2021	Wind Speed (kts)	8
I25	08 Feb 2021	Wind Dir	SW
I25	08 Feb 2021	Water Color	Greenish-Brown
I25	08 Feb 2021	Wave Ht Low (ft)	3
I25	08 Feb 2021	Wave Period (sec)	13
I25	08 Feb 2021	Sea State	Calm
I25	08 Feb 2021	High Tide (ft)	5.84
I25	08 Feb 2021	High Tide Time	611
I25	08 Feb 2021	Low Tide (ft)	-1.18
I25	08 Feb 2021	Low Tide Time	1337

Station	Date	Parameter	Value
I25	08 Feb 2021	Comments	Recast CTD 3 times to try to get depth but station too shallow due to tide
I25	18 Feb 2021	Depth (m)	10
I25	18 Feb 2021	Arrive Time	1127
I25	18 Feb 2021	Depart Time	1129
I25	18 Feb 2021	Air Temp (C)	16
I25	18 Feb 2021	Weather	Haze
I25	18 Feb 2021	Visibility (mi)	14
I25	18 Feb 2021	Wind Speed (kts)	7
I25	18 Feb 2021	Wind Dir	NW
I25	18 Feb 2021	Water Color	Brown
I25	18 Feb 2021	Wave Ht Low (ft)	3
I25	18 Feb 2021	Wave Period (sec)	9
I25	18 Feb 2021	Sea State	Calm
I25	18 Feb 2021	High Tide (ft)	2.48
I25	18 Feb 2021	High Tide Time	1340
I25	18 Feb 2021	Low Tide (ft)	1.56
I25	18 Feb 2021	Low Tide Time	806
I25	18 Feb 2021	Comments	none
I25	22 Feb 2021	Depth (m)	9
I25	22 Feb 2021	Arrive Time	1040
I25	22 Feb 2021	Depart Time	1043
I25	22 Feb 2021	Air Temp (C)	17
I25	22 Feb 2021	Weather	Haze
I25	22 Feb 2021	Visibility (mi)	13
I25	22 Feb 2021	Wind Speed (kts)	6
I25	22 Feb 2021	Wind Dir	NW
I25	22 Feb 2021	Water Color	Greenish-Brown
I25	22 Feb 2021	Wave Ht Low (ft)	3
I25	22 Feb 2021	Wave Period (sec)	11
I25	22 Feb 2021	Sea State	Calm
I25	22 Feb 2021	High Tide (ft)	4.65
I25	22 Feb 2021	High Tide Time	514
I25	22 Feb 2021	Low Tide (ft)	-0.13
I25	22 Feb 2021	Low Tide Time	1254
I25	22 Feb 2021	Comments	none
I26	01 Feb 2021	Depth (m)	10
I26	01 Feb 2021	Arrive Time	1259
I26	01 Feb 2021	Depart Time	1302
I26	01 Feb 2021	Air Temp (C)	15
I26	01 Feb 2021	Weather	Continuous layer of clouds
I26	01 Feb 2021	Visibility (mi)	12
I26	01 Feb 2021	Wind Speed (kts)	6
I26	01 Feb 2021	Wind Dir	W
I26	01 Feb 2021	Water Color	Green
I26	01 Feb 2021	Wave Ht Low (ft)	3
I26	01 Feb 2021	Wave Period (sec)	13
I26	01 Feb 2021	Sea State	Calm
I26	01 Feb 2021	High Tide (ft)	4.96
I26	01 Feb 2021	High Tide Time	1056
I26	01 Feb 2021	Low Tide (ft)	1.41
I26	01 Feb 2021	Low Tide Time	506
I26	01 Feb 2021	Comments	none
I26	08 Feb 2021	Depth (m)	9
I26	08 Feb 2021	Arrive Time	1203
I26	08 Feb 2021	Depart Time	1214
I26	08 Feb 2021	Air Temp (C)	12

Station	Date	Parameter	Value
I26	08 Feb 2021	Weather	Overcast
I26	08 Feb 2021	Visibility (mi)	5
I26	08 Feb 2021	Wind Speed (kts)	2
I26	08 Feb 2021	Wind Dir	W
I26	08 Feb 2021	Water Color	Greenish-Brown
I26	08 Feb 2021	Wave Ht Low (ft)	3
I26	08 Feb 2021	Wave Period (sec)	13
I26	08 Feb 2021	Sea State	Calm
I26	08 Feb 2021	High Tide (ft)	5.84
I26	08 Feb 2021	High Tide Time	611
I26	08 Feb 2021	Low Tide (ft)	-1.18
I26	08 Feb 2021	Low Tide Time	1337
I26	08 Feb 2021	Comments	Recast CTD to get depth and bottles from 1st cast
I26	18 Feb 2021	Depth (m)	9
I26	18 Feb 2021	Arrive Time	1137
I26	18 Feb 2021	Depart Time	1140
I26	18 Feb 2021	Air Temp (C)	15
I26	18 Feb 2021	Weather	Haze
I26	18 Feb 2021	Visibility (mi)	14
I26	18 Feb 2021	Wind Speed (kts)	10
I26	18 Feb 2021	Wind Dir	W
I26	18 Feb 2021	Water Color	Greenish-Brown
I26	18 Feb 2021	Wave Ht Low (ft)	3
I26	18 Feb 2021	Wave Period (sec)	9
I26	18 Feb 2021	Sea State	Calm
I26	18 Feb 2021	High Tide (ft)	2.48
I26	18 Feb 2021	High Tide Time	1340
I26	18 Feb 2021	Low Tide (ft)	1.56
I26	18 Feb 2021	Low Tide Time	806
I26	18 Feb 2021	Comments	none
I26	22 Feb 2021	Depth (m)	9
I26	22 Feb 2021	Arrive Time	1050
I26	22 Feb 2021	Depart Time	1052
I26	22 Feb 2021	Air Temp (C)	17
I26	22 Feb 2021	Weather	Haze
I26	22 Feb 2021	Visibility (mi)	13
I26	22 Feb 2021	Wind Speed (kts)	8
I26	22 Feb 2021	Wind Dir	W
I26	22 Feb 2021	Water Color	Greenish-Brown
I26	22 Feb 2021	Wave Ht Low (ft)	3
I26	22 Feb 2021	Wave Period (sec)	11
I26	22 Feb 2021	Sea State	Calm
I26	22 Feb 2021	High Tide (ft)	4.65
I26	22 Feb 2021	High Tide Time	514
I26	22 Feb 2021	Low Tide (ft)	-0.13
I26	22 Feb 2021	Low Tide Time	1254
I26	22 Feb 2021	Comments	none
I32	01 Feb 2021	Depth (m)	11
I32	01 Feb 2021	Arrive Time	1312
I32	01 Feb 2021	Depart Time	1320
I32	01 Feb 2021	Air Temp (C)	15
I32	01 Feb 2021	Weather	Continuous layer of clouds
I32	01 Feb 2021	Visibility (mi)	12
I32	01 Feb 2021	Wind Speed (kts)	10
I32	01 Feb 2021	Wind Dir	W
I32	01 Feb 2021	Water Color	Green
I32	01 Feb 2021	Wave Ht Low (ft)	3
I32	01 Feb 2021	Wave Period (sec)	13

Station	Date	Parameter	Value
I32	01 Feb 2021	Sea State	Calm
I32	01 Feb 2021	High Tide (ft)	4.96
I32	01 Feb 2021	High Tide Time	1056
I32	01 Feb 2021	Low Tide (ft)	1.41
I32	01 Feb 2021	Low Tide Time	506
I32	01 Feb 2021	Comments	none
I32	08 Feb 2021	Depth (m)	10
I32	08 Feb 2021	Arrive Time	1220
I32	08 Feb 2021	Depart Time	1226
I32	08 Feb 2021	Air Temp (C)	13
I32	08 Feb 2021	Weather	Overcast
I32	08 Feb 2021	Visibility (mi)	5
I32	08 Feb 2021	Wind Speed (kts)	5
I32	08 Feb 2021	Wind Dir	SW
I32	08 Feb 2021	Water Color	Greenish-Brown
I32	08 Feb 2021	Wave Ht Low (ft)	3
I32	08 Feb 2021	Wave Period (sec)	13
I32	08 Feb 2021	Sea State	Calm
I32	08 Feb 2021	High Tide (ft)	5.84
I32	08 Feb 2021	High Tide Time	611
I32	08 Feb 2021	Low Tide (ft)	-1.18
I32	08 Feb 2021	Low Tide Time	1337
I32	08 Feb 2021	Comments	Boats
I32	18 Feb 2021	Depth (m)	11
I32	18 Feb 2021	Arrive Time	1150
I32	18 Feb 2021	Depart Time	1154
I32	18 Feb 2021	Air Temp (C)	15
I32	18 Feb 2021	Weather	Haze
I32	18 Feb 2021	Visibility (mi)	14
I32	18 Feb 2021	Wind Speed (kts)	8
I32	18 Feb 2021	Wind Dir	W
I32	18 Feb 2021	Water Color	Green
I32	18 Feb 2021	Wave Ht Low (ft)	3
I32	18 Feb 2021	Wave Period (sec)	9
I32	18 Feb 2021	Sea State	Calm
I32	18 Feb 2021	High Tide (ft)	2.48
I32	18 Feb 2021	High Tide Time	1340
I32	18 Feb 2021	Low Tide (ft)	1.56
I32	18 Feb 2021	Low Tide Time	806
I32	18 Feb 2021	Comments	none
I32	22 Feb 2021	Depth (m)	10
I32	22 Feb 2021	Arrive Time	1102
I32	22 Feb 2021	Depart Time	1105
I32	22 Feb 2021	Air Temp (C)	17
I32	22 Feb 2021	Weather	Haze
I32	22 Feb 2021	Visibility (mi)	13
I32	22 Feb 2021	Wind Speed (kts)	3
I32	22 Feb 2021	Wind Dir	W
I32	22 Feb 2021	Water Color	Green
I32	22 Feb 2021	Wave Ht Low (ft)	3
I32	22 Feb 2021	Wave Period (sec)	11
I32	22 Feb 2021	Sea State	Light chop
I32	22 Feb 2021	High Tide (ft)	4.65
I32	22 Feb 2021	High Tide Time	514
I32	22 Feb 2021	Low Tide (ft)	-0.13
I32	22 Feb 2021	Low Tide Time	1254
I32	22 Feb 2021	Comments	none

Station	Date	Parameter	Value
I39	01 Feb 2021	Depth (m)	21
I39	01 Feb 2021	Arrive Time	1150
I39	01 Feb 2021	Depart Time	1156
I39	01 Feb 2021	Air Temp (C)	15
I39	01 Feb 2021	Weather	Continuous layer of clouds
I39	01 Feb 2021	Visibility (mi)	12
I39	01 Feb 2021	Wind Speed (kts)	2
I39	01 Feb 2021	Wind Dir	NW
I39	01 Feb 2021	Water Color	Green
I39	01 Feb 2021	Wave Ht Low (ft)	3
I39	01 Feb 2021	Wave Period (sec)	13
I39	01 Feb 2021	Sea State	Calm
I39	01 Feb 2021	High Tide (ft)	4.96
I39	01 Feb 2021	High Tide Time	1056
I39	01 Feb 2021	Low Tide (ft)	1.41
I39	01 Feb 2021	Low Tide Time	506
I39	01 Feb 2021	Comments	Lobster floats
I39	08 Feb 2021	Depth (m)	19
I39	08 Feb 2021	Arrive Time	1044
I39	08 Feb 2021	Depart Time	1050
I39	08 Feb 2021	Air Temp (C)	12
I39	08 Feb 2021	Weather	Overcast
I39	08 Feb 2021	Visibility (mi)	5
I39	08 Feb 2021	Wind Speed (kts)	8
I39	08 Feb 2021	Wind Dir	S
I39	08 Feb 2021	Water Color	Greenish-Brown
I39	08 Feb 2021	Wave Ht Low (ft)	3
I39	08 Feb 2021	Wave Period (sec)	13
I39	08 Feb 2021	Sea State	Calm
I39	08 Feb 2021	High Tide (ft)	5.84
I39	08 Feb 2021	High Tide Time	611
I39	08 Feb 2021	Low Tide (ft)	-1.18
I39	08 Feb 2021	Low Tide Time	1337
I39	08 Feb 2021	Comments	none
I39	18 Feb 2021	Depth (m)	19
I39	18 Feb 2021	Arrive Time	1034
I39	18 Feb 2021	Depart Time	1037
I39	18 Feb 2021	Air Temp (C)	15
I39	18 Feb 2021	Weather	Haze
I39	18 Feb 2021	Visibility (mi)	13
I39	18 Feb 2021	Wind Speed (kts)	6
I39	18 Feb 2021	Wind Dir	NW
I39	18 Feb 2021	Water Color	Green
I39	18 Feb 2021	Wave Ht Low (ft)	3
I39	18 Feb 2021	Wave Period (sec)	9
I39	18 Feb 2021	Sea State	Calm
I39	18 Feb 2021	High Tide (ft)	2.48
I39	18 Feb 2021	High Tide Time	1340
I39	18 Feb 2021	Low Tide (ft)	1.56
I39	18 Feb 2021	Low Tide Time	806
I39	18 Feb 2021	Comments	none
I39	22 Feb 2021	Depth (m)	19
I39	22 Feb 2021	Arrive Time	954
I39	22 Feb 2021	Depart Time	957
I39	22 Feb 2021	Air Temp (C)	15
I39	22 Feb 2021	Weather	Haze
I39	22 Feb 2021	Visibility (mi)	13
I39	22 Feb 2021	Wind Speed (kts)	6

Station	Date	Parameter	Value
I39	22 Feb 2021	Wind Dir	NW
I39	22 Feb 2021	Water Color	Greenish-Blue
I39	22 Feb 2021	Wave Ht Low (ft)	3
I39	22 Feb 2021	Wave Period (sec)	11
I39	22 Feb 2021	Sea State	Calm
I39	22 Feb 2021	High Tide (ft)	4.65
I39	22 Feb 2021	High Tide Time	514
I39	22 Feb 2021	Low Tide (ft)	-0.13
I39	22 Feb 2021	Low Tide Time	1254
I39	22 Feb 2021	Comments	none
I40	01 Feb 2021	Depth (m)	11
I40	01 Feb 2021	Arrive Time	1228
I40	01 Feb 2021	Depart Time	1233
I40	01 Feb 2021	Air Temp (C)	16
I40	01 Feb 2021	Weather	Continuous layer of clouds
I40	01 Feb 2021	Visibility (mi)	12
I40	01 Feb 2021	Wind Speed (kts)	7
I40	01 Feb 2021	Wind Dir	W
I40	01 Feb 2021	Water Color	Green
I40	01 Feb 2021	Wave Ht Low (ft)	3
I40	01 Feb 2021	Wave Period (sec)	13
I40	01 Feb 2021	Sea State	Calm
I40	01 Feb 2021	High Tide (ft)	4.96
I40	01 Feb 2021	High Tide Time	1056
I40	01 Feb 2021	Low Tide (ft)	1.41
I40	01 Feb 2021	Low Tide Time	506
I40	01 Feb 2021	Comments	none
I40	08 Feb 2021	Depth (m)	10
I40	08 Feb 2021	Arrive Time	1120
I40	08 Feb 2021	Depart Time	1129
I40	08 Feb 2021	Air Temp (C)	12
I40	08 Feb 2021	Weather	Overcast
I40	08 Feb 2021	Visibility (mi)	5
I40	08 Feb 2021	Wind Speed (kts)	7
I40	08 Feb 2021	Wind Dir	S
I40	08 Feb 2021	Water Color	Greenish-Brown
I40	08 Feb 2021	Wave Ht Low (ft)	3
I40	08 Feb 2021	Wave Period (sec)	13
I40	08 Feb 2021	Sea State	Calm
I40	08 Feb 2021	High Tide (ft)	5.84
I40	08 Feb 2021	High Tide Time	611
I40	08 Feb 2021	Low Tide (ft)	-1.18
I40	08 Feb 2021	Low Tide Time	1337
I40	08 Feb 2021	Comments	Freshwater lens
I40	18 Feb 2021	Depth (m)	10
I40	18 Feb 2021	Arrive Time	1110
I40	18 Feb 2021	Depart Time	1112
I40	18 Feb 2021	Air Temp (C)	15
I40	18 Feb 2021	Weather	Haze
I40	18 Feb 2021	Visibility (mi)	13
I40	18 Feb 2021	Wind Speed (kts)	8
I40	18 Feb 2021	Wind Dir	NW
I40	18 Feb 2021	Water Color	Brown
I40	18 Feb 2021	Wave Ht Low (ft)	3
I40	18 Feb 2021	Wave Period (sec)	9
I40	18 Feb 2021	Sea State	Calm
I40	18 Feb 2021	High Tide (ft)	2.48
I40	18 Feb 2021	High Tide Time	1340

<b>Station</b>	<b>Date</b>	<b>Parameter</b>	<b>Value</b>
I40	18 Feb 2021	Low Tide (ft)	1.56
I40	18 Feb 2021	Low Tide Time	806
I40	18 Feb 2021	Comments	none
I40	22 Feb 2021	Depth (m)	10
I40	22 Feb 2021	Arrive Time	1023
I40	22 Feb 2021	Depart Time	1025
I40	22 Feb 2021	Air Temp (C)	17
I40	22 Feb 2021	Weather	Haze
I40	22 Feb 2021	Visibility (mi)	13
I40	22 Feb 2021	Wind Speed (kts)	10
I40	22 Feb 2021	Wind Dir	NW
I40	22 Feb 2021	Water Color	Brown
I40	22 Feb 2021	Wave Ht Low (ft)	3
I40	22 Feb 2021	Wave Period (sec)	11
I40	22 Feb 2021	Sea State	Calm
I40	22 Feb 2021	High Tide (ft)	4.65
I40	22 Feb 2021	High Tide Time	514
I40	22 Feb 2021	Low Tide (ft)	-0.13
I40	22 Feb 2021	Low Tide Time	1254
I40	22 Feb 2021	Comments	none

**Table 3.10**

Summary of CTD profile data from the SBOO kelp stations for each sample date.

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma-t$ )	Chlor ( $\mu\text{g/L}$ )
I19	01 Feb 2021	1	14.90	55.32	8.2	33.27	8.2	24.7	3.10
I19	01 Feb 2021	2	14.84	55.39	8.5	33.34	8.2	24.7	4.62
I19	01 Feb 2021	3	14.74	56.47	8.7	33.45	8.2	24.8	8.14
I19	01 Feb 2021	4	14.66	58.47	8.5	33.49	8.2	24.9	7.67
I19	01 Feb 2021	5	14.62	61.20	8.3	33.49	8.2	24.9	6.34
I19	01 Feb 2021	6	14.61	61.30	8.2	33.49	8.2	24.9	5.31
I19	01 Feb 2021	7	14.59	57.64	8.1	33.49	8.2	24.9	4.58
I19	01 Feb 2021	8	14.56	55.58	8.0	33.50	8.2	24.9	4.12
I19	01 Feb 2021	9	14.54	54.76	8.0	33.51	8.2	24.9	3.82
I19	01 Feb 2021	10	14.53	54.59	7.9	33.52	8.2	24.9	3.57
I19	08 Feb 2021	1	14.77	67.04	8.2	33.52	8.2	24.9	2.84
I19	08 Feb 2021	2	14.71	67.42	8.2	33.53	8.2	24.9	3.73
I19	08 Feb 2021	3	14.60	66.83	8.1	33.53	8.2	24.9	4.70
I19	08 Feb 2021	4	14.48	67.26	7.9	33.53	8.2	25.0	4.26
I19	08 Feb 2021	5	14.40	68.26	7.7	33.53	8.2	25.0	3.68
I19	08 Feb 2021	6	14.34	68.54	7.6	33.54	8.1	25.0	3.33
I19	08 Feb 2021	7	14.25	68.27	7.4	33.54	8.1	25.0	3.07
I19	08 Feb 2021	8	14.15	66.29	7.2	33.55	8.1	25.0	2.87
I19	08 Feb 2021	9	14.13	62.45	7.1	33.54	8.1	25.0	2.83
I19	08 Feb 2021	10	14.18	61.60	7.2	33.54	8.1	25.0	2.83
I19	18 Feb 2021	1	15.14	41.69	9.4	33.27	8.2	24.6	4.35
I19	18 Feb 2021	2	15.07	43.83	9.5	33.39	8.2	24.7	5.71
I19	18 Feb 2021	3	15.00	56.39	9.3	33.48	8.2	24.8	7.25
I19	18 Feb 2021	4	14.96	59.37	8.9	33.49	8.2	24.8	8.03
I19	18 Feb 2021	5	14.93	58.98	8.6	33.50	8.2	24.8	8.47
I19	18 Feb 2021	6	14.76	52.70	7.9	33.52	8.2	24.9	7.23
I19	18 Feb 2021	7	14.46	46.84	7.2	33.52	8.1	24.9	5.82
I19	18 Feb 2021	8	14.21	44.09	6.6	33.50	8.0	25.0	4.92
I19	18 Feb 2021	9	13.96	50.98	5.8	33.56	8.0	25.1	3.35
I19	18 Feb 2021	10	13.74	21.99	5.1	33.57	7.9	25.1	2.35
I19	22 Feb 2021	1	13.22	45.24	6.4	33.56	7.9	25.2	1.25
I19	22 Feb 2021	2	13.22	44.29	6.4	33.55	7.9	25.2	1.31
I19	22 Feb 2021	3	13.19	44.46	6.3	33.58	7.9	25.3	1.47
I19	22 Feb 2021	4	13.16	46.29	6.2	33.60	7.9	25.3	1.70
I19	22 Feb 2021	5	13.06	47.56	6.1	33.63	7.9	25.3	2.44
I19	22 Feb 2021	6	12.86	49.96	5.8	33.63	7.9	25.4	2.93
I19	22 Feb 2021	7	12.71	65.59	5.5	33.63	7.9	25.4	2.53
I19	22 Feb 2021	8	12.65	69.41	5.3	33.62	7.9	25.4	2.20
I19	22 Feb 2021	9	12.65	55.44	5.2	33.62	7.9	25.4	2.10
I19	22 Feb 2021	10	12.59	37.97	4.9	33.63	7.9	25.4	2.10
I24	01 Feb 2021	1	14.90	60.63	8.8	33.35	8.2	24.7	6.11
I24	01 Feb 2021	2	14.71	60.75	8.6	33.41	8.2	24.8	6.85
I24	01 Feb 2021	3	14.67	61.20	8.4	33.44	8.2	24.8	6.60
I24	01 Feb 2021	4	14.65	60.80	8.3	33.45	8.2	24.8	5.85
I24	01 Feb 2021	5	14.61	61.38	8.1	33.46	8.2	24.9	4.95
I24	01 Feb 2021	6	14.60	62.03	7.9	33.48	8.2	24.9	4.15
I24	01 Feb 2021	7	14.56	61.06	7.7	33.50	8.2	24.9	3.53
I24	01 Feb 2021	8	14.53	60.77	7.6	33.52	8.2	24.9	2.89
I24	01 Feb 2021	9	14.49	66.09	7.3	33.53	8.2	24.9	2.37
I24	01 Feb 2021	10	14.45	62.27	6.9	33.54	8.1	25.0	2.04
I24	01 Feb 2021	11	14.44	48.17	6.8	33.54	8.1	25.0	1.91

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I24	08 Feb 2021	1	14.80	67.72	8.9	33.36	8.2	24.8	2.84
I24	08 Feb 2021	2	14.78	67.62	8.8	33.37	8.2	24.8	3.87
I24	08 Feb 2021	3	14.74	66.31	8.6	33.45	8.2	24.8	4.61
I24	08 Feb 2021	4	14.69	70.65	8.4	33.50	8.2	24.9	4.17
I24	08 Feb 2021	5	14.68	73.60	8.3	33.51	8.2	24.9	3.63
I24	08 Feb 2021	6	14.45	76.08	8.1	33.55	8.2	25.0	3.39
I24	08 Feb 2021	7	14.29	77.20	7.6	33.53	8.2	25.0	3.09
I24	08 Feb 2021	8	14.15	74.69	7.2	33.55	8.2	25.0	2.81
I24	08 Feb 2021	9	13.95	65.57	6.9	33.55	8.1	25.1	2.68
I24	08 Feb 2021	10	14.03	63.95	7.1	33.53	8.1	25.0	2.60
I24	18 Feb 2021	1	14.98	60.85	8.3	33.55	8.2	24.9	1.62
I24	18 Feb 2021	2	14.95	60.42	8.3	33.55	8.2	24.9	1.95
I24	18 Feb 2021	3	14.82	58.00	8.3	33.56	8.2	24.9	3.49
I24	18 Feb 2021	4	14.73	56.55	8.3	33.55	8.2	24.9	5.53
I24	18 Feb 2021	5	14.69	58.84	8.2	33.55	8.2	24.9	6.53
I24	18 Feb 2021	6	14.63	61.05	8.1	33.55	8.2	24.9	6.71
I24	18 Feb 2021	7	14.58	61.47	7.8	33.55	8.2	24.9	6.62
I24	18 Feb 2021	8	14.17	62.16	7.0	33.60	8.1	25.1	6.09
I24	18 Feb 2021	9	13.70	64.36	6.3	33.59	8.0	25.2	4.75
I24	22 Feb 2021	1	13.66	62.66	7.3	33.60	8.0	25.2	1.72
I24	22 Feb 2021	2	13.64	63.08	7.3	33.60	8.0	25.2	1.68
I24	22 Feb 2021	3	13.64	62.84	7.3	33.60	8.0	25.2	1.73
I24	22 Feb 2021	4	13.53	62.98	7.0	33.62	8.0	25.2	2.39
I24	22 Feb 2021	5	13.13	68.86	6.4	33.63	8.0	25.3	3.41
I24	22 Feb 2021	6	12.79	76.03	5.9	33.61	8.0	25.4	2.78
I24	22 Feb 2021	7	12.73	78.08	5.7	33.59	7.9	25.4	2.49
I24	22 Feb 2021	8	12.72	78.40	5.7	33.59	7.9	25.4	2.04
I24	22 Feb 2021	9	12.70	78.34	5.7	33.59	7.9	25.4	1.91
I25	01 Feb 2021	1	14.96	59.08	8.6	33.31	8.2	24.7	5.55
I25	01 Feb 2021	2	14.80	58.82	8.5	33.41	8.2	24.8	5.72
I25	01 Feb 2021	3	14.66	59.69	8.3	33.46	8.2	24.9	5.63
I25	01 Feb 2021	4	14.63	60.93	8.2	33.46	8.2	24.9	5.39
I25	01 Feb 2021	5	14.59	61.15	8.0	33.46	8.2	24.9	4.80
I25	01 Feb 2021	6	14.53	62.95	7.8	33.48	8.2	24.9	4.20
I25	01 Feb 2021	7	14.50	62.38	7.2	33.49	8.2	24.9	3.34
I25	01 Feb 2021	8	14.50	49.65	6.9	33.51	8.1	24.9	2.79
I25	01 Feb 2021	9	14.50	33.02	6.8	33.51	8.1	24.9	2.62
I25	08 Feb 2021	1	14.90	67.62	8.6	33.34	8.2	24.7	2.50
I25	08 Feb 2021	2	14.86	67.27	8.5	33.42	8.2	24.8	3.28
I25	08 Feb 2021	3	14.64	68.09	8.2	33.52	8.2	24.9	3.13
I25	08 Feb 2021	4	14.59	72.80	8.1	33.52	8.2	24.9	2.86
I25	08 Feb 2021	5	14.51	73.54	7.7	33.52	8.2	24.9	2.79
I25	08 Feb 2021	6	14.30	69.12	7.2	33.55	8.1	25.0	2.74
I25	08 Feb 2021	7	14.08	70.56	7.0	33.55	8.1	25.0	2.55
I25	08 Feb 2021	8	14.03	71.60	7.0	33.54	8.1	25.1	2.19
I25	18 Feb 2021	1	14.88	46.65	8.2	33.55	8.2	24.9	3.23
I25	18 Feb 2021	2	14.82	45.89	8.2	33.56	8.2	24.9	4.07
I25	18 Feb 2021	3	14.53	44.21	7.7	33.58	8.1	25.0	9.64
I25	18 Feb 2021	4	14.21	46.69	7.3	33.55	8.1	25.0	13.55
I25	18 Feb 2021	5	14.20	54.29	7.2	33.55	8.1	25.0	12.96
I25	18 Feb 2021	6	14.09	57.60	7.0	33.56	8.1	25.1	11.66
I25	18 Feb 2021	7	14.07	55.54	6.8	33.56	8.1	25.1	10.52
I25	18 Feb 2021	8	13.73	60.95	6.5	33.58	8.0	25.1	7.63
I25	18 Feb 2021	9	13.70	65.87	6.4	33.57	8.0	25.1	5.65
I25	22 Feb 2021	1	13.79	57.03	7.7	33.59	8.1	25.1	2.84

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I25	22 Feb 2021	2	13.58	56.97	7.4	33.60	8.1	25.2	3.26
I25	22 Feb 2021	3	13.04	68.72	6.4	33.63	8.0	25.3	3.02
I25	22 Feb 2021	4	12.66	79.75	5.8	33.60	7.9	25.4	2.02
I25	22 Feb 2021	5	12.60	80.91	5.6	33.59	7.9	25.4	1.55
I25	22 Feb 2021	6	12.60	81.59	5.6	33.58	7.9	25.4	1.48
I25	22 Feb 2021	7	12.59	81.49	5.6	33.58	7.9	25.4	1.46
I25	22 Feb 2021	8	12.59	81.27	5.7	33.58	7.9	25.4	1.40
I26	01 Feb 2021	1	14.74	65.02	8.6	33.44	8.2	24.8	5.36
I26	01 Feb 2021	2	14.68	64.18	8.5	33.45	8.2	24.8	5.90
I26	01 Feb 2021	3	14.56	63.04	8.3	33.46	8.2	24.9	5.69
I26	01 Feb 2021	4	14.52	62.90	8.1	33.45	8.2	24.9	4.95
I26	01 Feb 2021	5	14.52	63.27	8.0	33.46	8.2	24.9	4.35
I26	01 Feb 2021	6	14.55	64.19	7.9	33.47	8.2	24.9	3.78
I26	01 Feb 2021	7	14.55	65.91	7.9	33.48	8.2	24.9	3.29
I26	01 Feb 2021	8	14.55	66.68	7.8	33.48	8.2	24.9	2.95
I26	01 Feb 2021	9	14.51	66.66	7.2	33.51	8.2	24.9	2.87
I26	08 Feb 2021	1	14.90	64.77	8.6	33.34	8.2	24.7	2.52
I26	08 Feb 2021	2	14.89	64.61	8.7	33.34	8.2	24.7	2.68
I26	08 Feb 2021	3	14.83	64.62	8.7	33.37	8.2	24.8	4.27
I26	08 Feb 2021	4	14.68	64.56	8.5	33.48	8.2	24.9	4.51
I26	08 Feb 2021	5	14.36	73.09	8.1	33.54	8.2	25.0	3.49
I26	08 Feb 2021	6	14.19	79.49	7.8	33.54	8.2	25.0	3.09
I26	08 Feb 2021	7	13.89	81.01	7.2	33.55	8.2	25.1	2.42
I26	08 Feb 2021	8	13.94	79.27	7.3	33.53	8.1	25.1	2.02
I26	08 Feb 2021	9	13.95	78.83	7.3	33.53	8.1	25.1	1.95
I26	18 Feb 2021	1	14.93	70.47	8.9	33.54	8.2	24.9	1.39
I26	18 Feb 2021	2	14.79	69.80	8.7	33.55	8.2	24.9	1.74
I26	18 Feb 2021	3	14.41	69.39	8.1	33.58	8.2	25.0	2.62
I26	18 Feb 2021	4	14.04	71.63	7.5	33.57	8.1	25.1	3.11
I26	18 Feb 2021	5	13.91	71.51	7.2	33.56	8.1	25.1	3.33
I26	18 Feb 2021	6	13.79	71.13	6.9	33.57	8.1	25.1	3.58
I26	18 Feb 2021	7	13.61	70.73	6.5	33.58	8.0	25.2	3.56
I26	18 Feb 2021	8	13.53	70.18	6.4	33.58	8.0	25.2	3.37
I26	18 Feb 2021	9	13.49	69.45	6.3	33.58	8.0	25.2	3.16
I26	22 Feb 2021	1	13.93	60.11	7.9	33.58	8.1	25.1	2.57
I26	22 Feb 2021	2	13.85	59.20	7.5	33.59	8.1	25.1	3.39
I26	22 Feb 2021	3	13.11	58.13	6.4	33.68	8.1	25.3	3.49
I26	22 Feb 2021	4	12.51	68.75	5.6	33.64	7.9	25.4	2.47
I26	22 Feb 2021	5	12.43	77.44	5.3	33.62	7.9	25.4	1.73
I26	22 Feb 2021	6	12.41	80.68	5.3	33.61	7.9	25.4	1.48
I26	22 Feb 2021	7	12.40	81.03	5.3	33.60	7.9	25.4	1.36
I26	22 Feb 2021	8	12.40	80.52	5.3	33.61	7.9	25.4	1.31
I26	22 Feb 2021	9	12.42	80.43	5.3	33.60	7.9	25.4	1.26
I32	01 Feb 2021	1	14.93	64.70	8.9	33.46	8.2	24.8	5.59
I32	01 Feb 2021	2	14.79	64.32	8.8	33.48	8.2	24.8	6.52
I32	01 Feb 2021	3	14.64	62.55	8.8	33.47	8.2	24.9	8.30
I32	01 Feb 2021	4	14.63	63.11	8.8	33.47	8.2	24.9	8.14
I32	01 Feb 2021	5	14.64	62.25	8.7	33.48	8.2	24.9	7.72
I32	01 Feb 2021	6	14.64	61.13	8.6	33.48	8.2	24.9	7.26
I32	01 Feb 2021	7	14.65	59.61	8.5	33.49	8.2	24.9	6.77
I32	01 Feb 2021	8	14.63	56.30	8.3	33.50	8.2	24.9	5.69
I32	01 Feb 2021	9	14.61	53.77	8.1	33.50	8.2	24.9	4.72
I32	01 Feb 2021	10	14.57	49.79	8.0	33.50	8.2	24.9	3.83
I32	08 Feb 2021	1	14.98	66.91	8.6	33.44	8.2	24.8	1.77
I32	08 Feb 2021	2	15.08	68.24	8.9	33.50	8.2	24.8	2.34

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I32	08 Feb 2021	3	15.12	67.32	9.1	33.54	8.3	24.8	4.01
I32	08 Feb 2021	4	15.05	64.12	9.0	33.56	8.3	24.9	7.47
I32	08 Feb 2021	5	14.91	64.11	8.7	33.56	8.2	24.9	8.93
I32	08 Feb 2021	6	14.82	67.58	8.3	33.56	8.2	24.9	6.97
I32	08 Feb 2021	7	14.56	64.17	7.7	33.58	8.2	25.0	4.30
I32	08 Feb 2021	8	14.19	60.98	7.1	33.58	8.2	25.0	3.19
I32	08 Feb 2021	9	13.87	51.83	6.7	33.56	8.1	25.1	2.75
I32	18 Feb 2021	1	15.13	62.71	8.8	33.55	8.2	24.8	1.58
I32	18 Feb 2021	2	15.12	61.19	8.9	33.55	8.2	24.8	1.68
I32	18 Feb 2021	3	15.06	60.32	8.9	33.55	8.2	24.8	2.36
I32	18 Feb 2021	4	14.92	51.51	8.9	33.56	8.2	24.9	7.74
I32	18 Feb 2021	5	14.63	38.60	8.7	33.56	8.2	24.9	20.00
I32	18 Feb 2021	6	14.49	45.52	8.2	33.55	8.2	25.0	23.48
I32	18 Feb 2021	7	14.30	47.76	7.6	33.56	8.1	25.0	17.32
I32	18 Feb 2021	8	14.25	40.50	7.4	33.55	8.1	25.0	11.81
I32	18 Feb 2021	9	14.23	38.22	7.2	33.56	8.1	25.0	9.14
I32	18 Feb 2021	10	14.06	35.35	7.0	33.57	8.0	25.1	8.05
I32	22 Feb 2021	1	13.83	48.71	6.6	33.61	8.0	25.1	1.20
I32	22 Feb 2021	2	13.77	48.07	6.5	33.61	8.0	25.2	1.43
I32	22 Feb 2021	3	13.62	47.11	6.4	33.61	8.0	25.2	2.73
I32	22 Feb 2021	4	13.54	46.64	6.6	33.61	8.0	25.2	7.31
I32	22 Feb 2021	5	13.40	45.72	6.4	33.61	8.0	25.2	12.30
I32	22 Feb 2021	6	13.21	49.54	5.8	33.61	8.0	25.3	10.82
I32	22 Feb 2021	7	13.07	51.40	5.4	33.62	7.9	25.3	7.38
I32	22 Feb 2021	8	12.93	57.21	5.3	33.62	7.9	25.3	4.97
I32	22 Feb 2021	9	12.80	67.17	5.3	33.63	7.9	25.4	3.46
I32	22 Feb 2021	10	12.74	61.57	5.2	33.62	7.9	25.4	2.92
I39	01 Feb 2021	1	14.62	66.00	8.7	33.45	8.2	24.9	5.11
I39	01 Feb 2021	2	14.58	63.34	8.6	33.47	8.2	24.9	5.24
I39	01 Feb 2021	3	14.56	68.56	8.4	33.47	8.2	24.9	4.74
I39	01 Feb 2021	4	14.54	70.24	8.3	33.47	8.2	24.9	4.41
I39	01 Feb 2021	5	14.52	71.09	8.1	33.48	8.2	24.9	4.21
I39	01 Feb 2021	6	14.48	71.25	8.0	33.50	8.2	24.9	3.82
I39	01 Feb 2021	7	14.46	72.54	7.9	33.50	8.2	24.9	3.37
I39	01 Feb 2021	8	14.44	73.93	7.8	33.51	8.2	24.9	3.08
I39	01 Feb 2021	9	14.42	70.35	7.8	33.51	8.2	24.9	2.89
I39	01 Feb 2021	10	14.42	74.41	7.7	33.51	8.2	25.0	2.64
I39	01 Feb 2021	11	14.40	75.35	7.6	33.52	8.2	25.0	2.38
I39	01 Feb 2021	12	14.29	75.89	7.3	33.55	8.2	25.0	2.06
I39	01 Feb 2021	13	14.20	75.18	7.0	33.56	8.1	25.0	1.75
I39	01 Feb 2021	14	14.16	73.32	6.9	33.56	8.1	25.0	1.51
I39	01 Feb 2021	15	14.07	72.30	6.7	33.57	8.1	25.1	1.37
I39	01 Feb 2021	16	13.95	71.29	6.6	33.58	8.1	25.1	1.26
I39	01 Feb 2021	17	13.87	70.96	6.5	33.58	8.1	25.1	1.17
I39	01 Feb 2021	18	13.86	69.86	6.5	33.57	8.1	25.1	1.16
I39	08 Feb 2021	1	14.43	67.83	8.5	33.46	8.2	24.9	5.10
I39	08 Feb 2021	2	14.54	67.58	8.6	33.42	8.2	24.9	5.99
I39	08 Feb 2021	3	14.36	68.93	8.4	33.50	8.2	24.9	5.70
I39	08 Feb 2021	4	14.22	72.83	8.4	33.52	8.2	25.0	5.02
I39	08 Feb 2021	5	14.21	76.75	8.3	33.51	8.2	25.0	4.33
I39	08 Feb 2021	6	14.17	79.92	8.1	33.52	8.2	25.0	3.65
I39	08 Feb 2021	7	14.08	81.43	7.9	33.52	8.2	25.0	3.01
I39	08 Feb 2021	8	13.96	82.37	7.8	33.52	8.2	25.1	2.53
I39	08 Feb 2021	9	13.95	83.22	7.6	33.52	8.2	25.1	2.26
I39	08 Feb 2021	10	13.94	80.48	7.4	33.53	8.2	25.1	2.13
I39	08 Feb 2021	11	13.89	81.16	7.3	33.54	8.1	25.1	2.12
I39	08 Feb 2021	12	13.79	81.79	7.1	33.55	8.1	25.1	1.83

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I39	08 Feb 2021	13	13.63	82.69	6.9	33.56	8.1	25.2	1.60
I39	08 Feb 2021	14	13.59	82.85	6.8	33.56	8.1	25.2	1.52
I39	08 Feb 2021	15	13.53	82.68	6.7	33.56	8.1	25.2	1.46
I39	08 Feb 2021	16	13.50	82.72	6.6	33.56	8.1	25.2	1.42
I39	08 Feb 2021	17	13.47	82.52	6.6	33.56	8.1	25.2	1.33
I39	08 Feb 2021	18	13.51	82.29	6.6	33.56	8.1	25.2	1.35
I39	18 Feb 2021	1	14.93	73.74	8.8	33.55	8.2	24.9	1.05
I39	18 Feb 2021	2	14.88	73.68	8.7	33.55	8.2	24.9	1.10
I39	18 Feb 2021	3	14.73	72.79	8.8	33.55	8.2	24.9	1.42
I39	18 Feb 2021	4	14.65	71.96	8.8	33.54	8.2	24.9	1.82
I39	18 Feb 2021	5	14.54	73.22	8.6	33.54	8.2	24.9	2.19
I39	18 Feb 2021	6	14.27	74.93	8.1	33.57	8.2	25.0	2.50
I39	18 Feb 2021	7	13.61	79.90	7.2	33.59	8.1	25.2	2.32
I39	18 Feb 2021	8	13.50	82.31	6.8	33.57	8.1	25.2	1.98
I39	18 Feb 2021	9	13.48	82.19	6.8	33.57	8.0	25.2	1.96
I39	18 Feb 2021	10	13.38	82.16	6.6	33.58	8.0	25.2	2.06
I39	18 Feb 2021	11	13.30	81.94	6.5	33.58	8.0	25.2	2.06
I39	18 Feb 2021	12	13.29	81.88	6.4	33.58	8.0	25.2	2.08
I39	18 Feb 2021	13	13.16	81.40	6.2	33.60	8.0	25.3	1.83
I39	18 Feb 2021	14	13.08	80.62	6.0	33.60	8.0	25.3	1.53
I39	18 Feb 2021	15	13.08	80.26	6.0	33.60	8.0	25.3	1.49
I39	18 Feb 2021	16	13.07	80.02	6.0	33.60	8.0	25.3	1.39
I39	18 Feb 2021	17	13.05	80.05	5.9	33.60	8.0	25.3	1.38
I39	18 Feb 2021	18	13.01	77.83	5.9	33.61	8.0	25.3	1.28
I39	22 Feb 2021	1	14.03	74.10	8.5	33.56	8.2	25.1	2.04
I39	22 Feb 2021	2	13.99	74.00	8.5	33.56	8.2	25.1	2.32
I39	22 Feb 2021	3	14.00	74.01	8.5	33.56	8.2	25.1	2.44
I39	22 Feb 2021	4	13.93	73.90	8.5	33.56	8.2	25.1	3.10
I39	22 Feb 2021	5	13.90	74.19	8.4	33.56	8.1	25.1	3.84
I39	22 Feb 2021	6	13.87	74.64	8.3	33.56	8.1	25.1	4.47
I39	22 Feb 2021	7	13.86	75.00	8.3	33.56	8.1	25.1	4.77
I39	22 Feb 2021	8	13.79	75.37	8.2	33.56	8.1	25.1	4.83
I39	22 Feb 2021	9	13.68	76.48	7.9	33.56	8.1	25.1	4.43
I39	22 Feb 2021	10	13.47	78.32	7.5	33.57	8.1	25.2	3.82
I39	22 Feb 2021	11	13.36	80.85	7.3	33.56	8.1	25.2	3.26
I39	22 Feb 2021	12	13.34	81.68	7.2	33.56	8.0	25.2	2.99
I39	22 Feb 2021	13	13.27	82.07	7.0	33.56	8.0	25.2	2.89
I39	22 Feb 2021	14	13.10	82.46	6.6	33.58	8.0	25.3	2.54
I39	22 Feb 2021	15	12.72	83.39	6.1	33.61	8.0	25.4	2.00
I39	22 Feb 2021	16	12.55	84.32	5.7	33.60	7.9	25.4	1.66
I39	22 Feb 2021	17	12.36	83.95	5.5	33.62	7.9	25.5	1.39
I39	22 Feb 2021	18	12.34	83.39	5.4	33.61	7.9	25.4	1.35
I40	01 Feb 2021	1	14.98	48.19	7.9	33.02	8.1	24.5	2.22
I40	01 Feb 2021	2	14.85	48.54	8.0	33.26	8.2	24.7	2.88
I40	01 Feb 2021	3	14.67	55.01	7.8	33.48	8.2	24.9	3.63
I40	01 Feb 2021	4	14.65	54.64	7.6	33.51	8.2	24.9	3.57
I40	01 Feb 2021	5	14.67	56.84	7.6	33.54	8.2	24.9	3.47
I40	01 Feb 2021	6	14.60	62.16	7.6	33.54	8.2	24.9	3.21
I40	01 Feb 2021	7	14.53	67.06	7.6	33.54	8.2	24.9	2.67
I40	01 Feb 2021	8	14.50	71.24	7.4	33.54	8.2	25.0	2.31
I40	01 Feb 2021	9	14.49	65.08	7.1	33.54	8.2	25.0	2.13
I40	01 Feb 2021	10	14.49	49.72	7.0	33.54	8.1	25.0	2.01
I40	08 Feb 2021	1	14.77	23.71	7.6	32.18	8.1	23.8	3.08
I40	08 Feb 2021	2	14.76	30.50	7.8	32.46	8.1	24.1	5.26
I40	08 Feb 2021	3	14.75	42.85	8.6	33.44	8.2	24.8	7.99
I40	08 Feb 2021	4	14.72	62.16	8.5	33.45	8.2	24.8	7.09
I40	08 Feb 2021	5	14.59	70.11	8.1	33.50	8.2	24.9	4.96

<b>Station</b>	<b>Date</b>	<b>Depth (m)</b>	<b>Temp (°C)</b>	<b>XMS (%)</b>	<b>DO (mg/L)</b>	<b>Sal (ppt)</b>	<b>pH</b>	<b>Dens (σ-t)</b>	<b>Chlor (µg/L)</b>
I40	08 Feb 2021	6	14.39	65.04	7.6	33.51	8.2	25.0	3.62
I40	08 Feb 2021	7	14.29	61.74	7.3	33.53	8.1	25.0	3.26
I40	08 Feb 2021	8	14.20	64.42	7.1	33.55	8.1	25.0	2.97
I40	08 Feb 2021	9	14.15	55.43	7.0	33.53	8.1	25.0	3.12
I40	18 Feb 2021	1	14.84	40.07	8.1	33.55	8.1	24.9	2.39
I40	18 Feb 2021	2	14.84	39.79	8.1	33.55	8.1	24.9	2.51
I40	18 Feb 2021	3	14.81	39.90	8.1	33.56	8.1	24.9	3.20
I40	18 Feb 2021	4	14.77	39.58	8.0	33.56	8.1	24.9	4.57
I40	18 Feb 2021	5	14.61	38.13	8.0	33.56	8.1	24.9	6.14
I40	18 Feb 2021	6	14.56	33.44	7.9	33.56	8.1	25.0	5.90
I40	18 Feb 2021	7	14.37	28.23	7.3	33.56	8.1	25.0	4.68
I40	18 Feb 2021	8	14.03	34.66	6.0	33.60	8.0	25.1	3.31
I40	18 Feb 2021	9	13.72	28.77	5.2	33.58	7.9	25.1	2.50
I40	18 Feb 2021	10	13.82	28.27	5.4	33.55	7.9	25.1	2.30
I40	22 Feb 2021	1	13.67	52.65	7.2	33.60	8.0	25.2	1.94
I40	22 Feb 2021	2	13.59	52.21	7.1	33.61	8.0	25.2	2.22
I40	22 Feb 2021	3	13.39	50.37	6.6	33.61	8.0	25.2	2.67
I40	22 Feb 2021	4	13.08	52.21	5.9	33.64	8.0	25.3	2.58
I40	22 Feb 2021	5	12.78	57.96	5.3	33.63	7.9	25.4	2.31
I40	22 Feb 2021	6	12.71	56.18	5.1	33.62	7.9	25.4	2.23
I40	22 Feb 2021	7	12.66	42.26	5.0	33.63	7.9	25.4	2.37
I40	22 Feb 2021	8	12.58	33.34	4.9	33.63	7.9	25.4	2.40
I40	22 Feb 2021	9	12.57	35.91	5.0	33.62	7.9	25.4	2.23
I40	22 Feb 2021	10	12.57	33.15	5.0	33.62	7.9	25.4	2.14

NA = not available

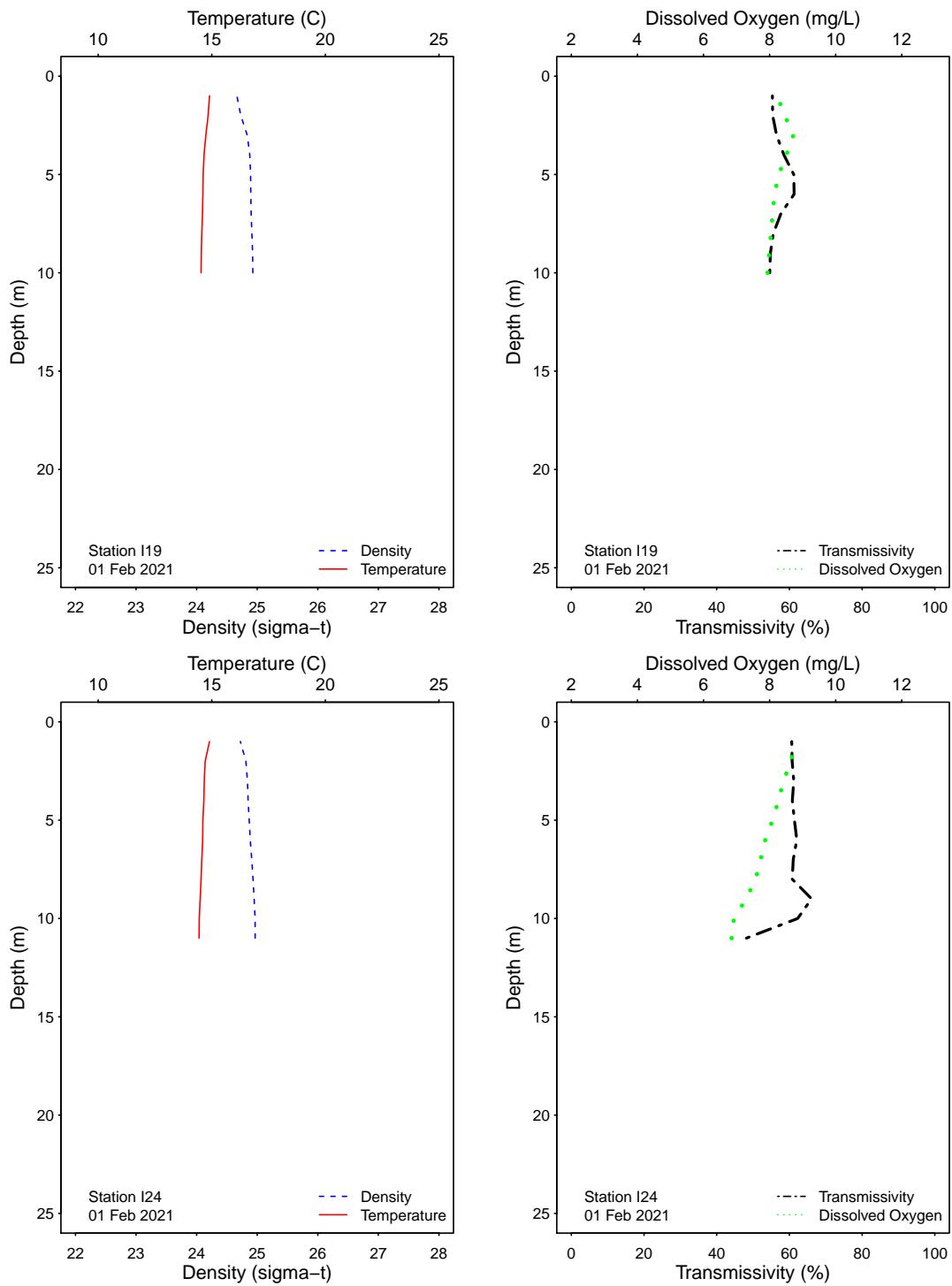


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

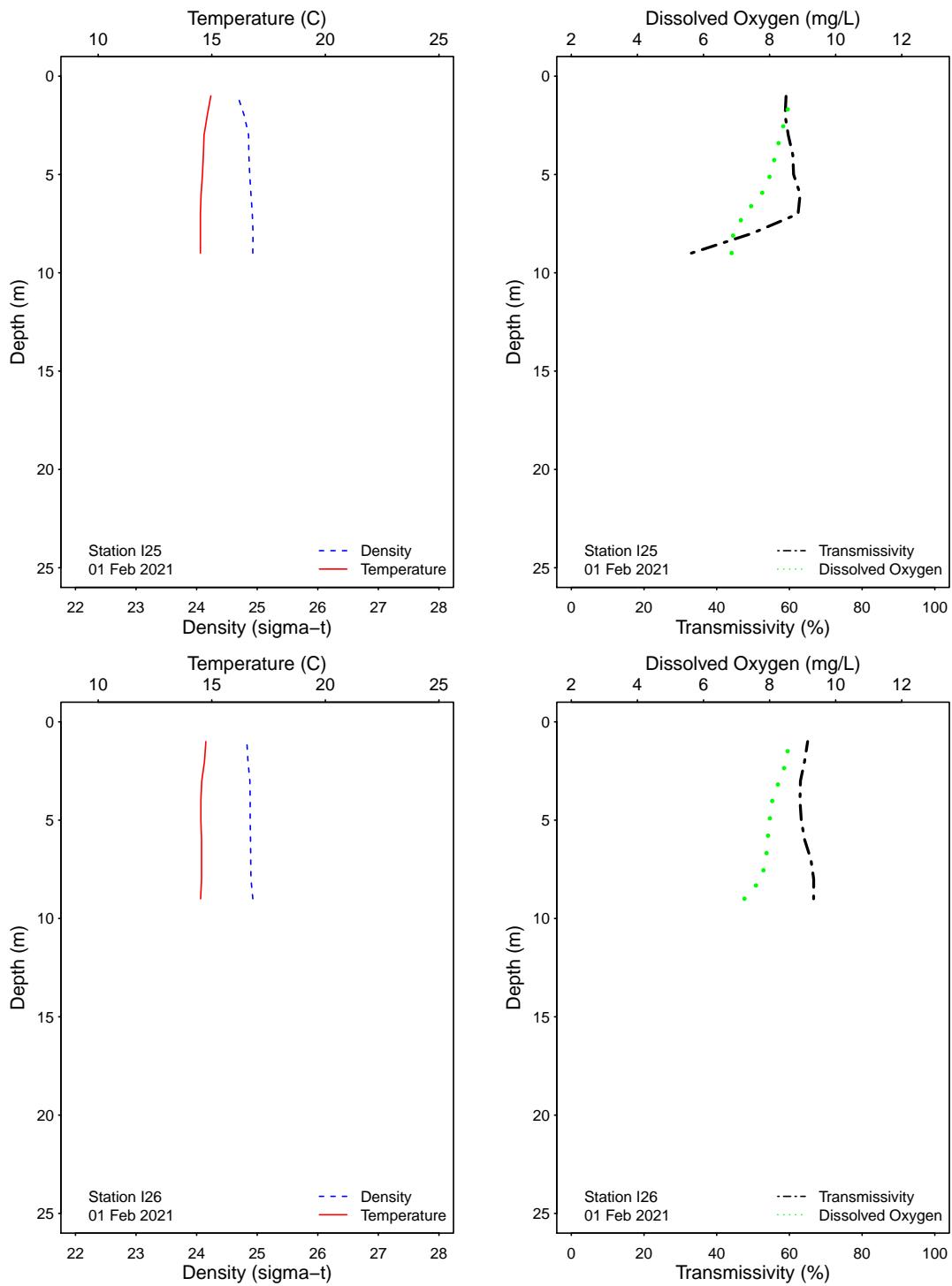


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

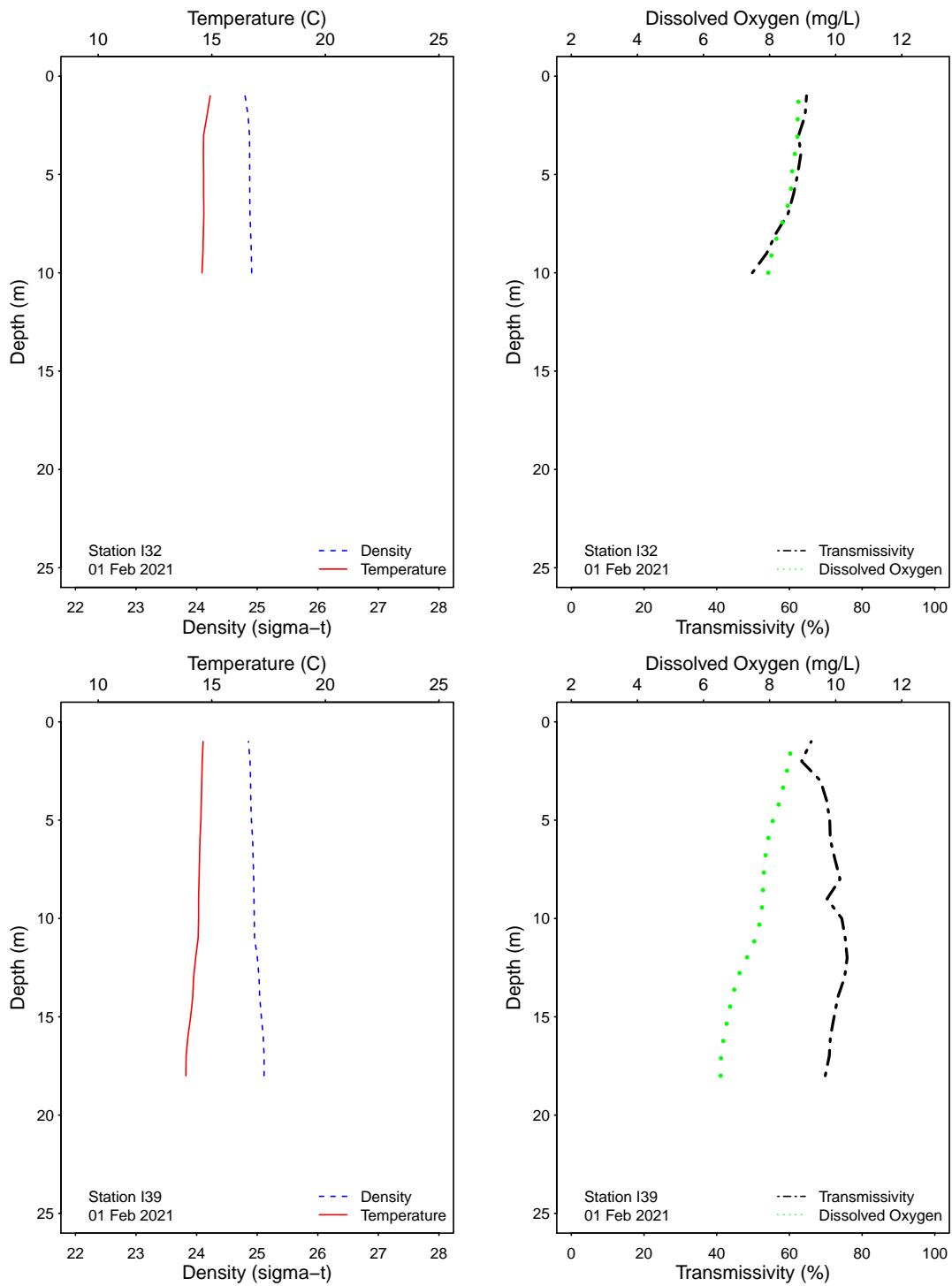


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

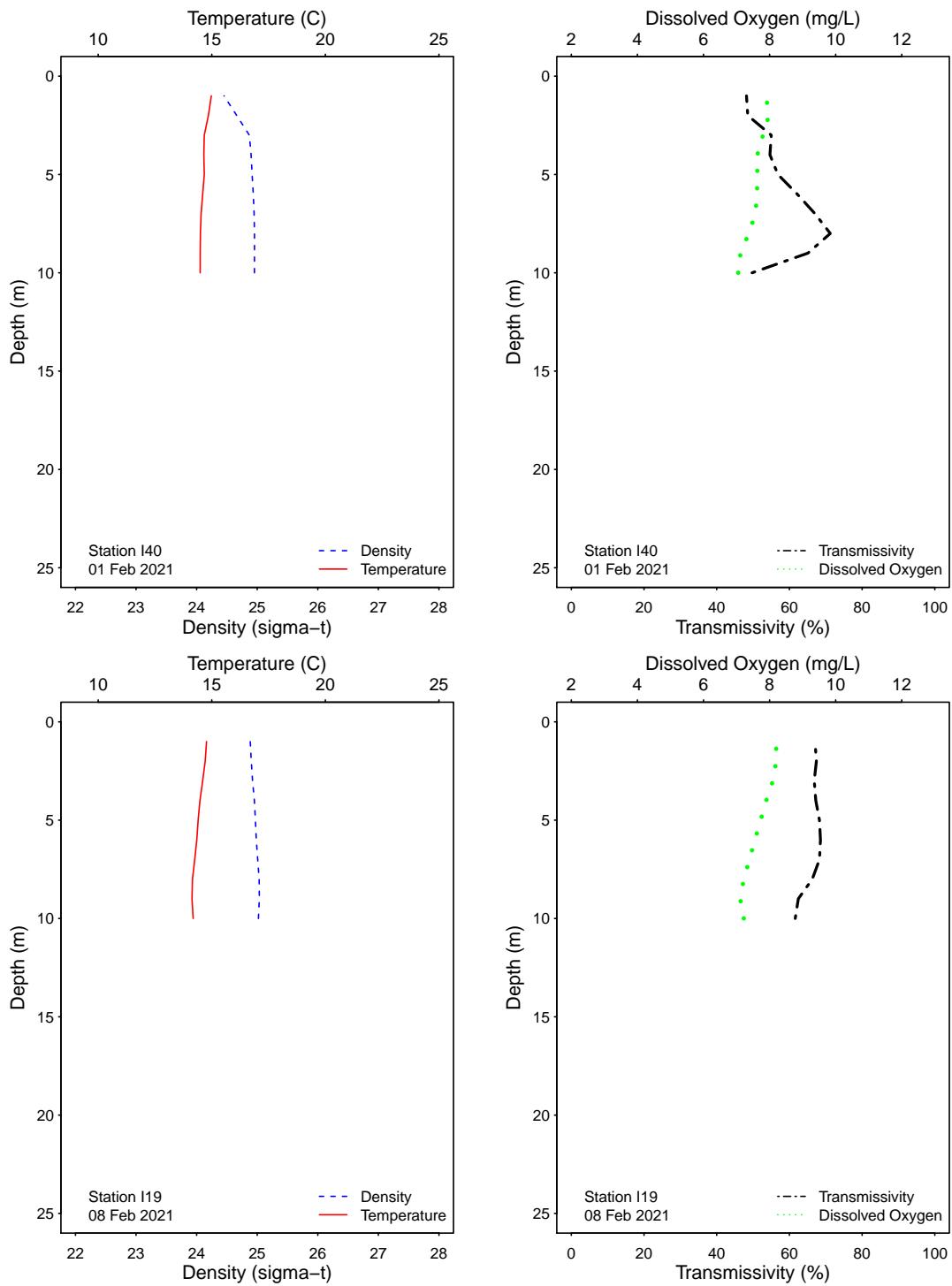


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

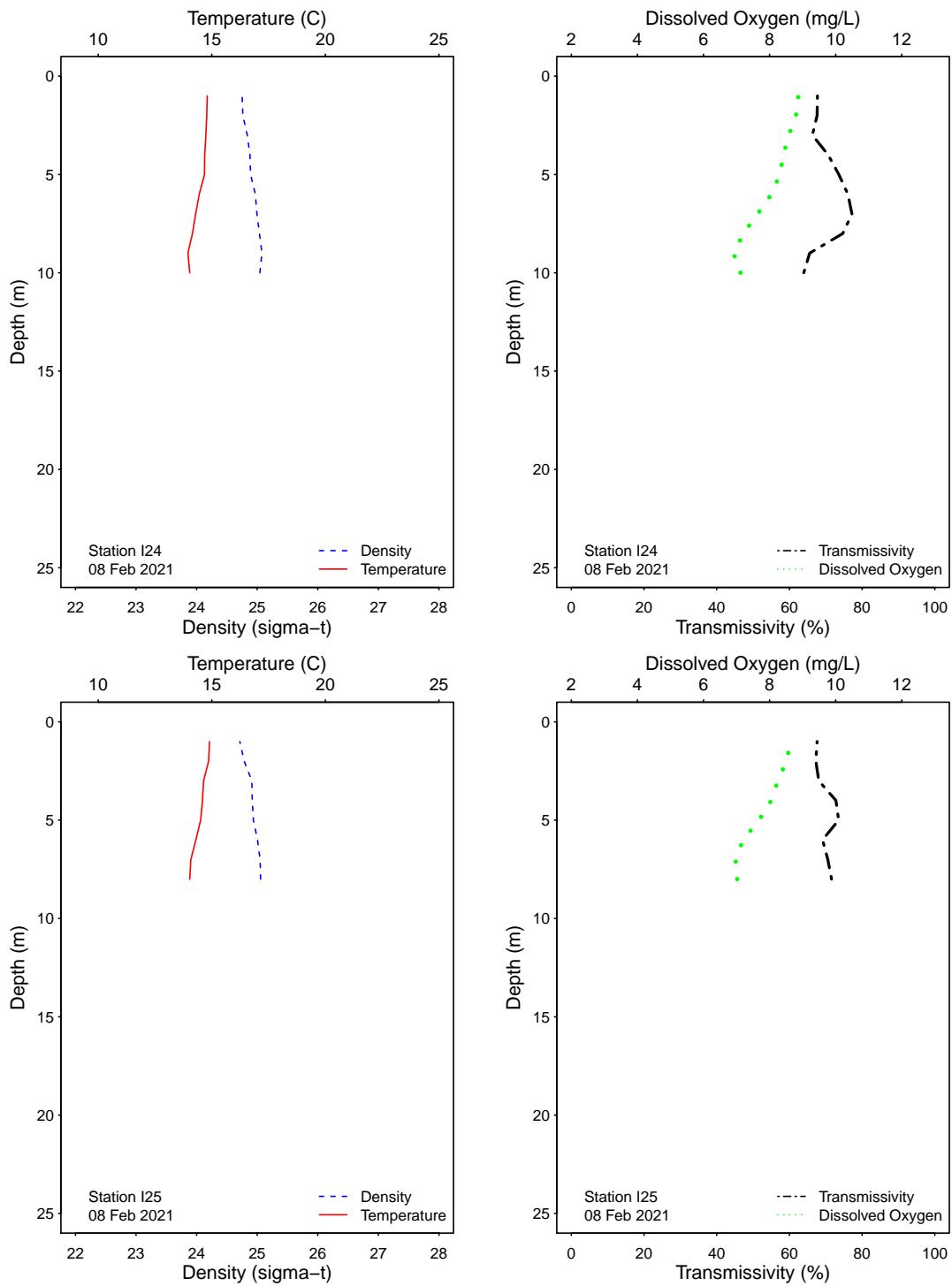


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

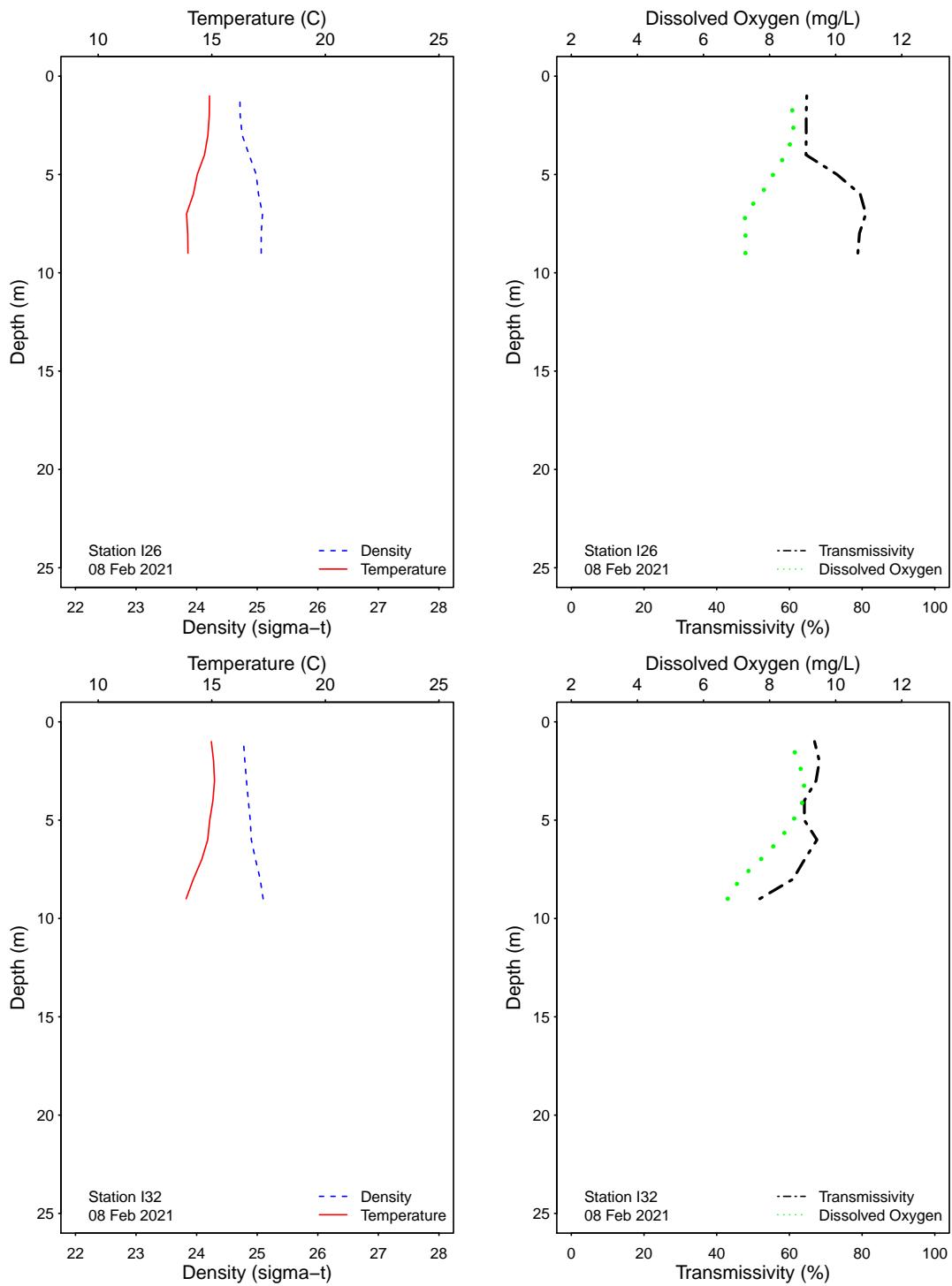


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

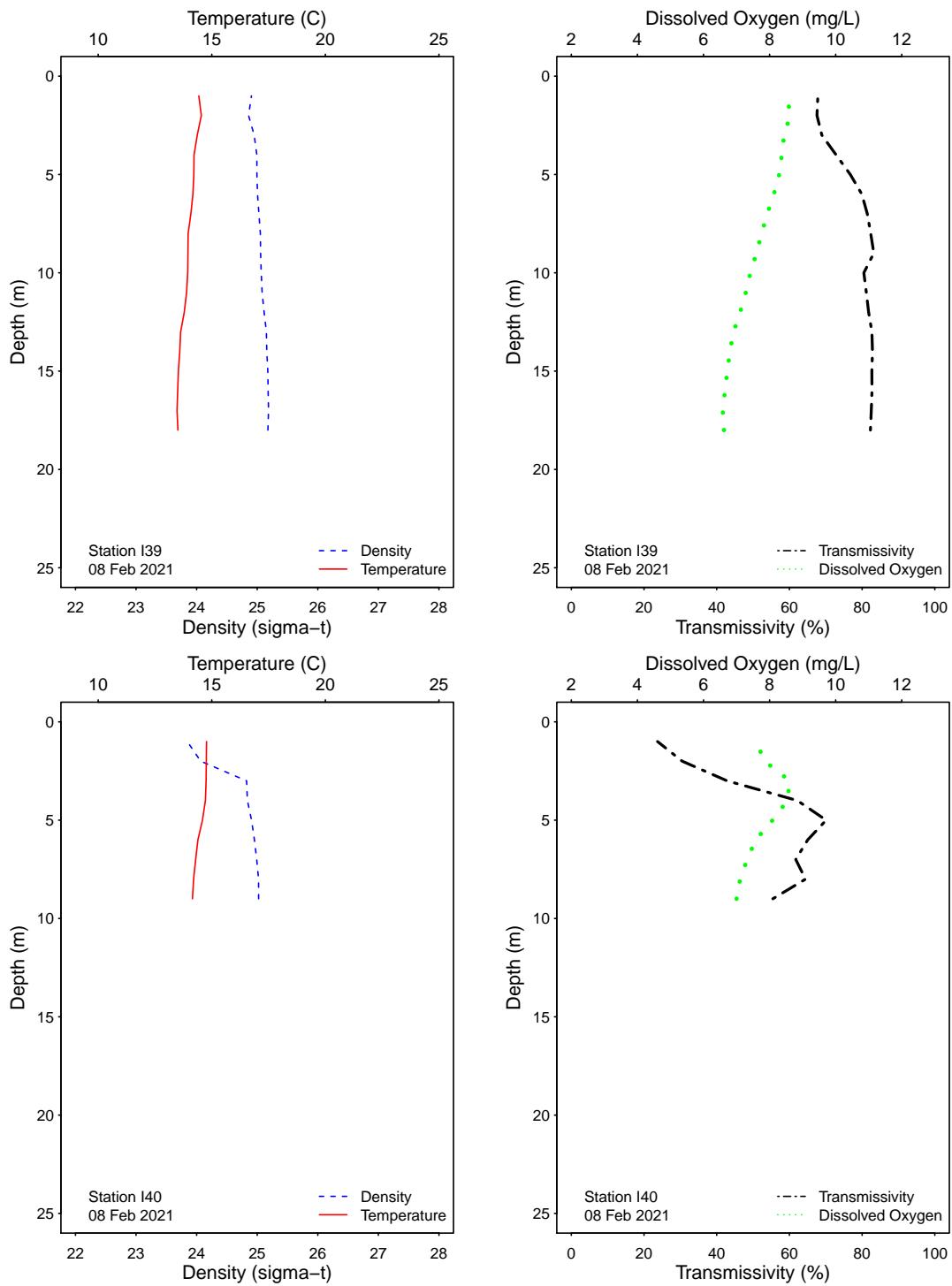


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

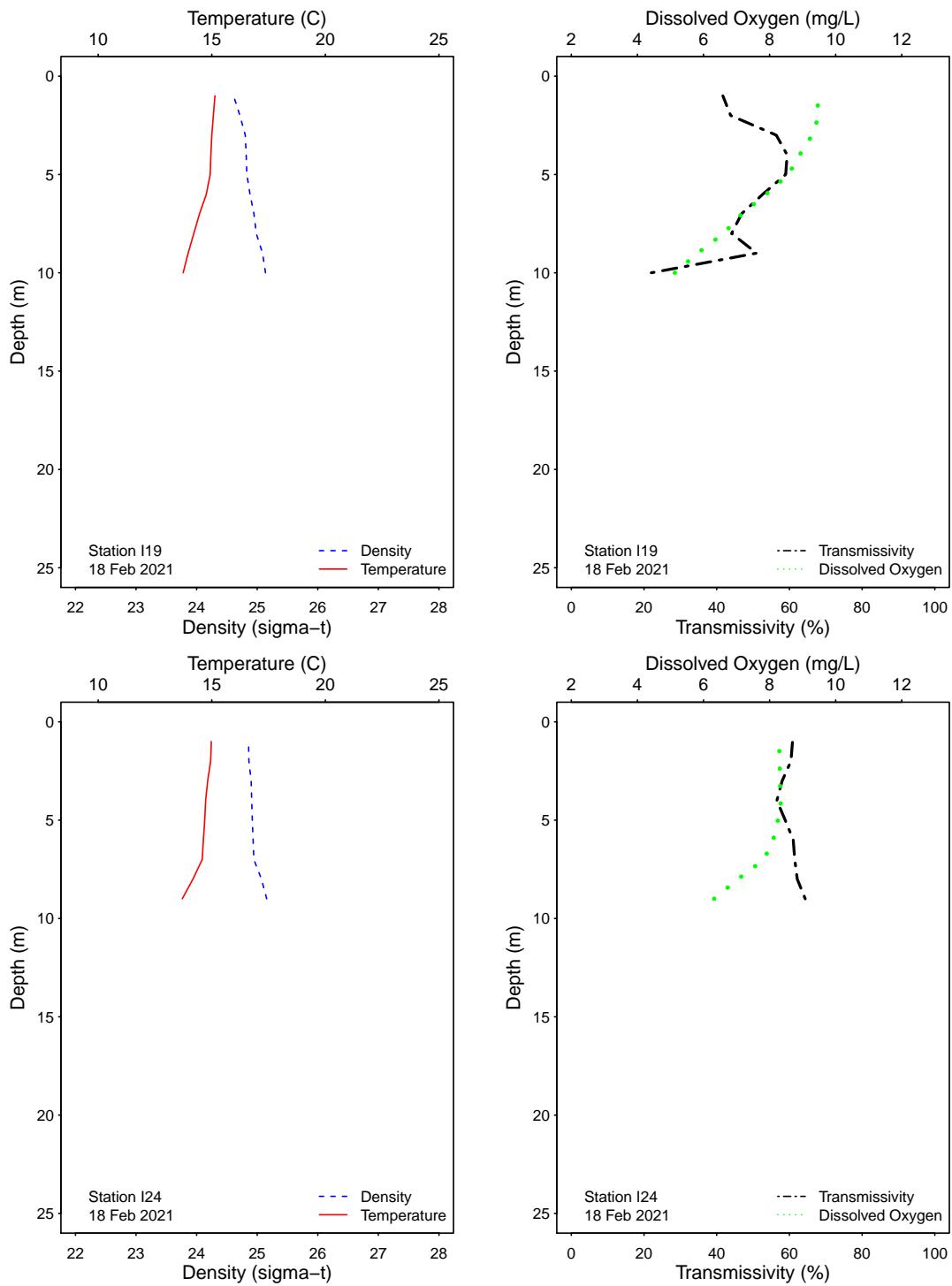


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

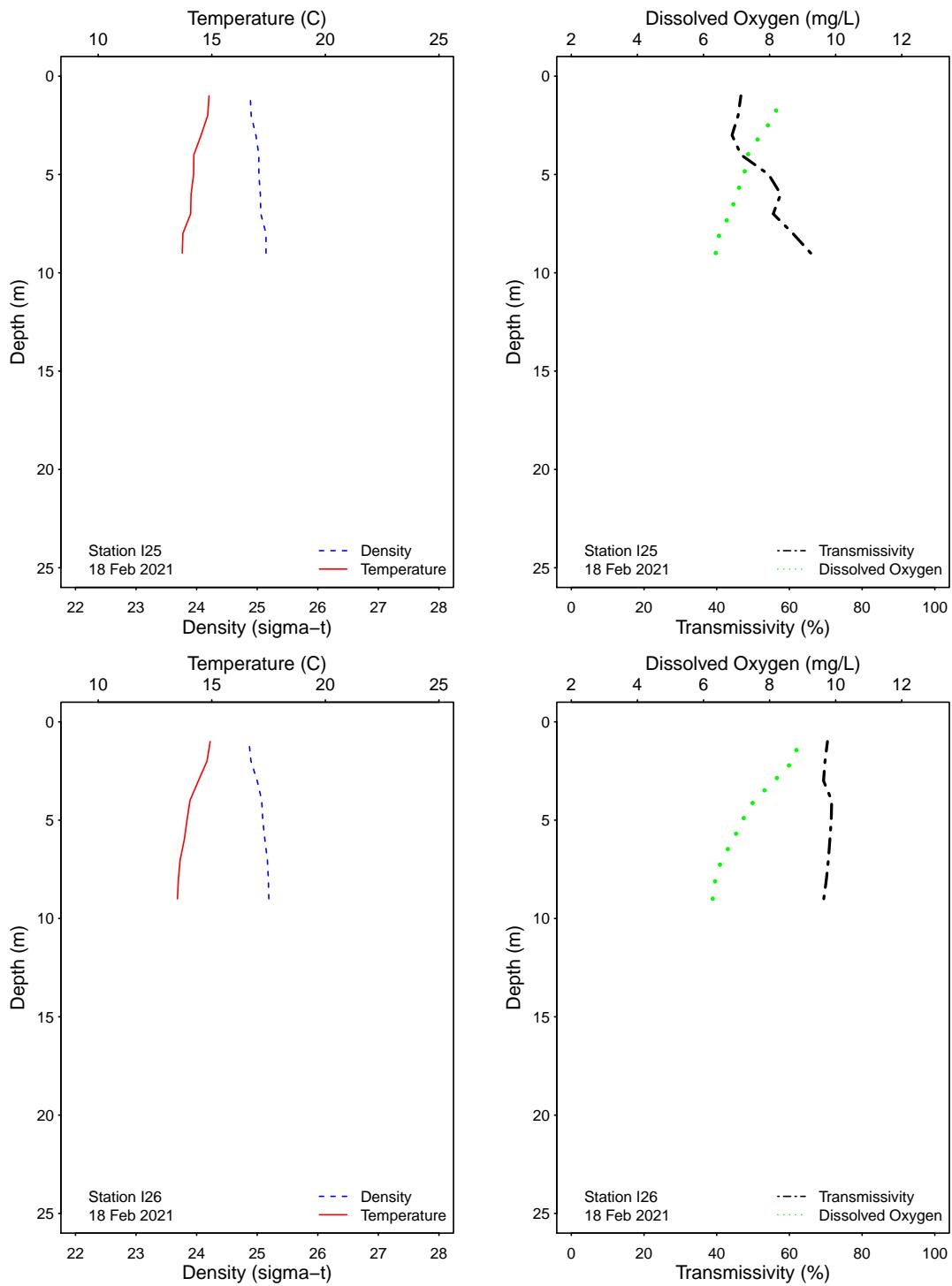


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

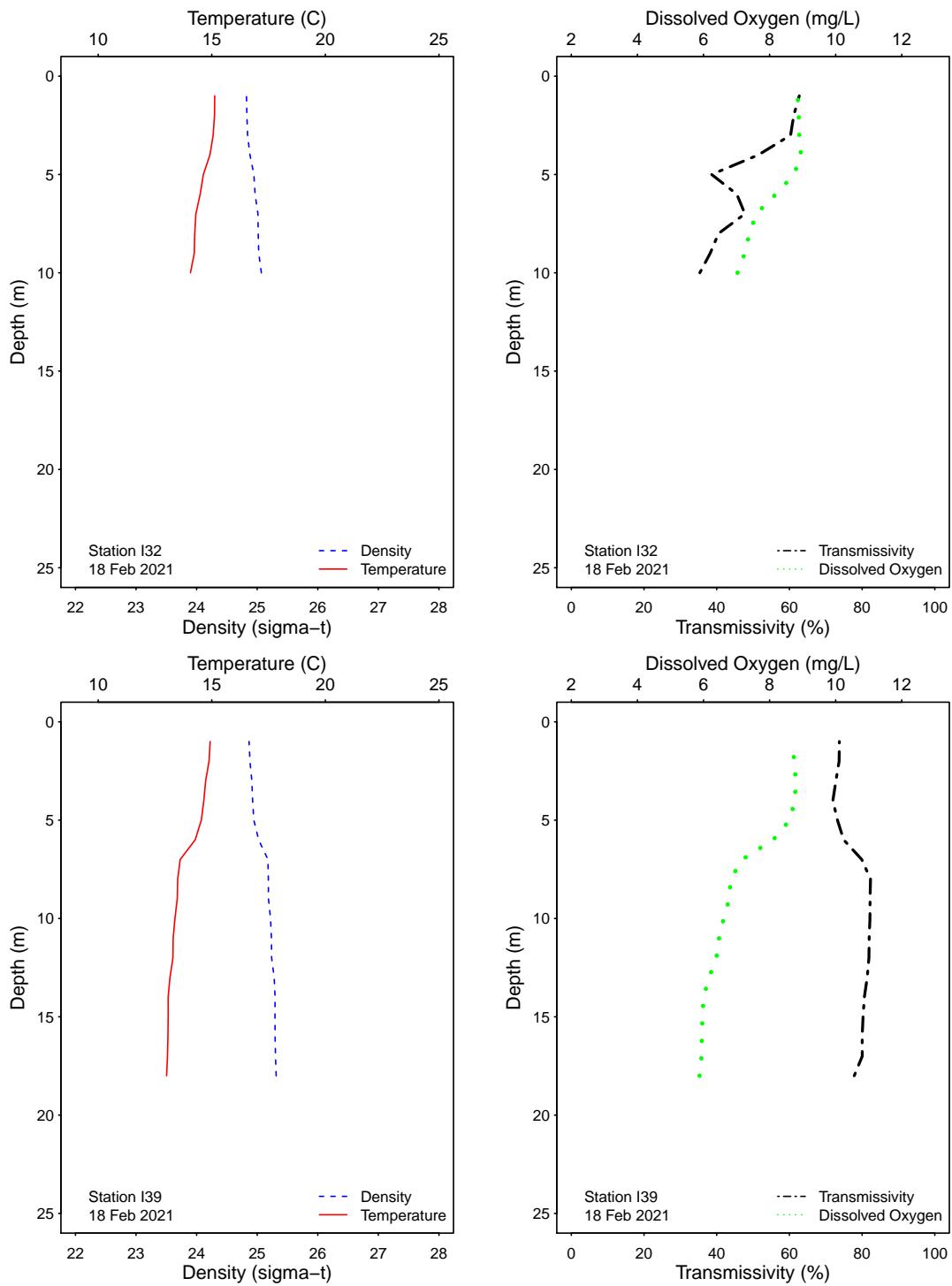


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

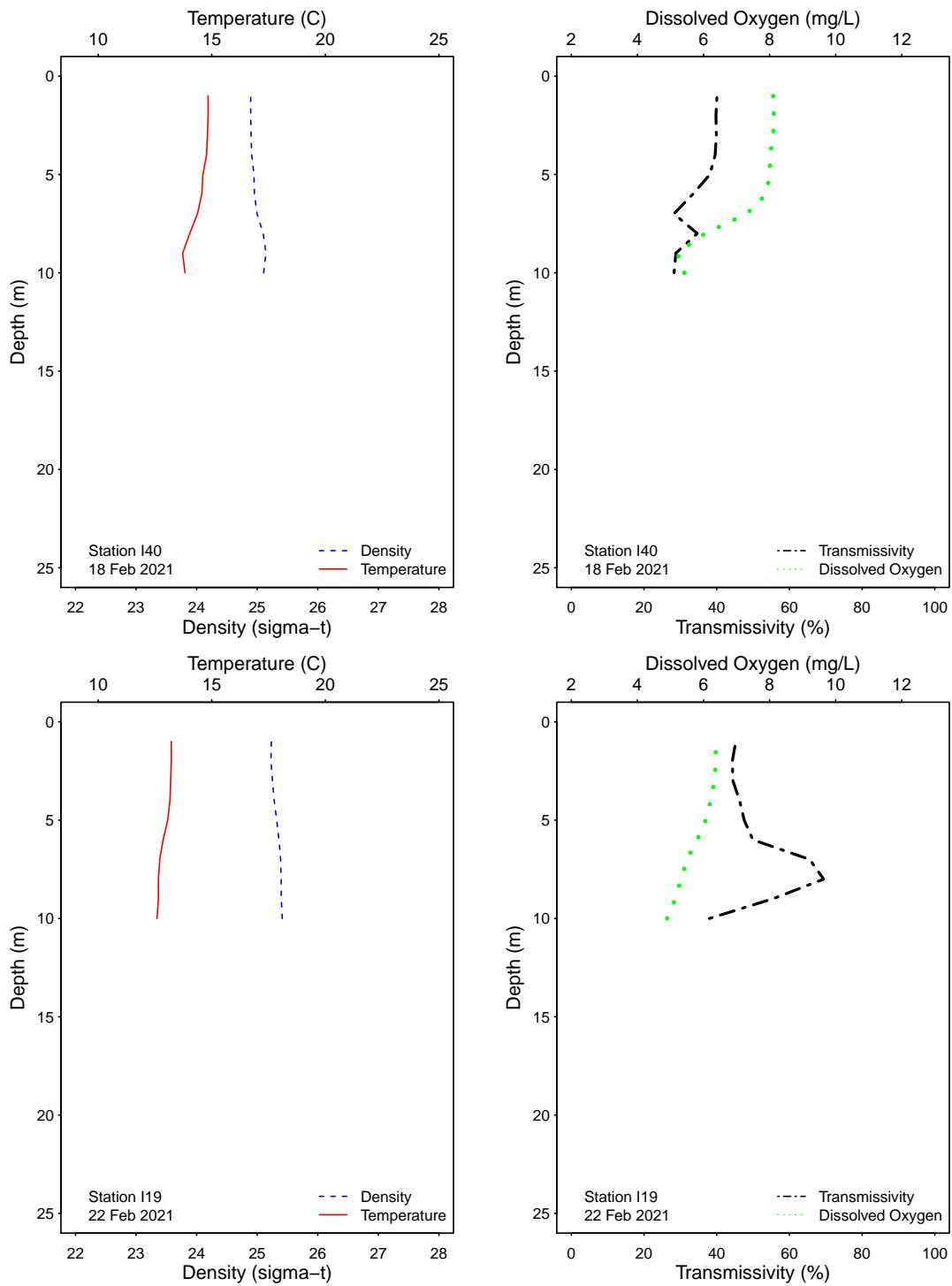


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

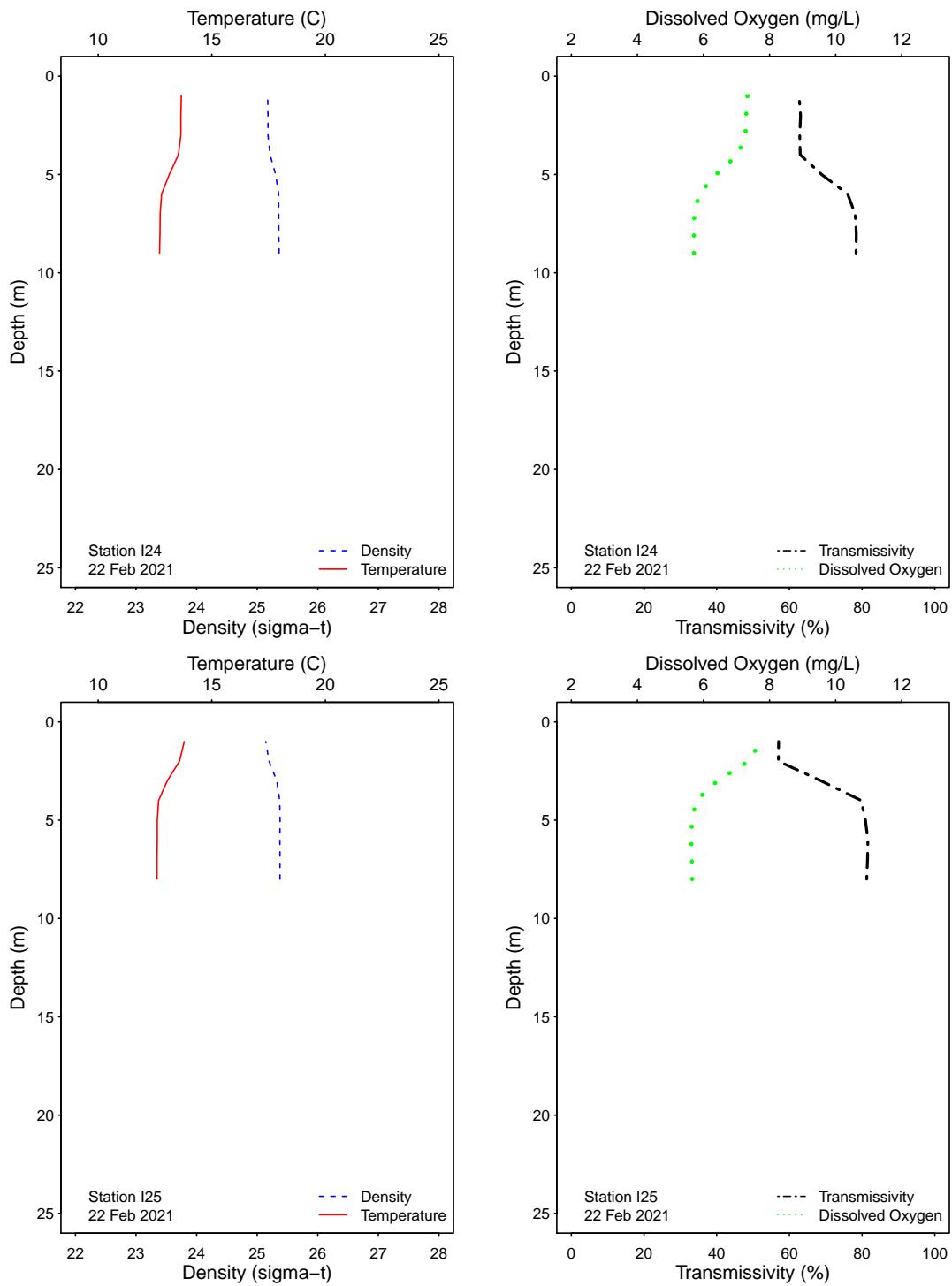


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

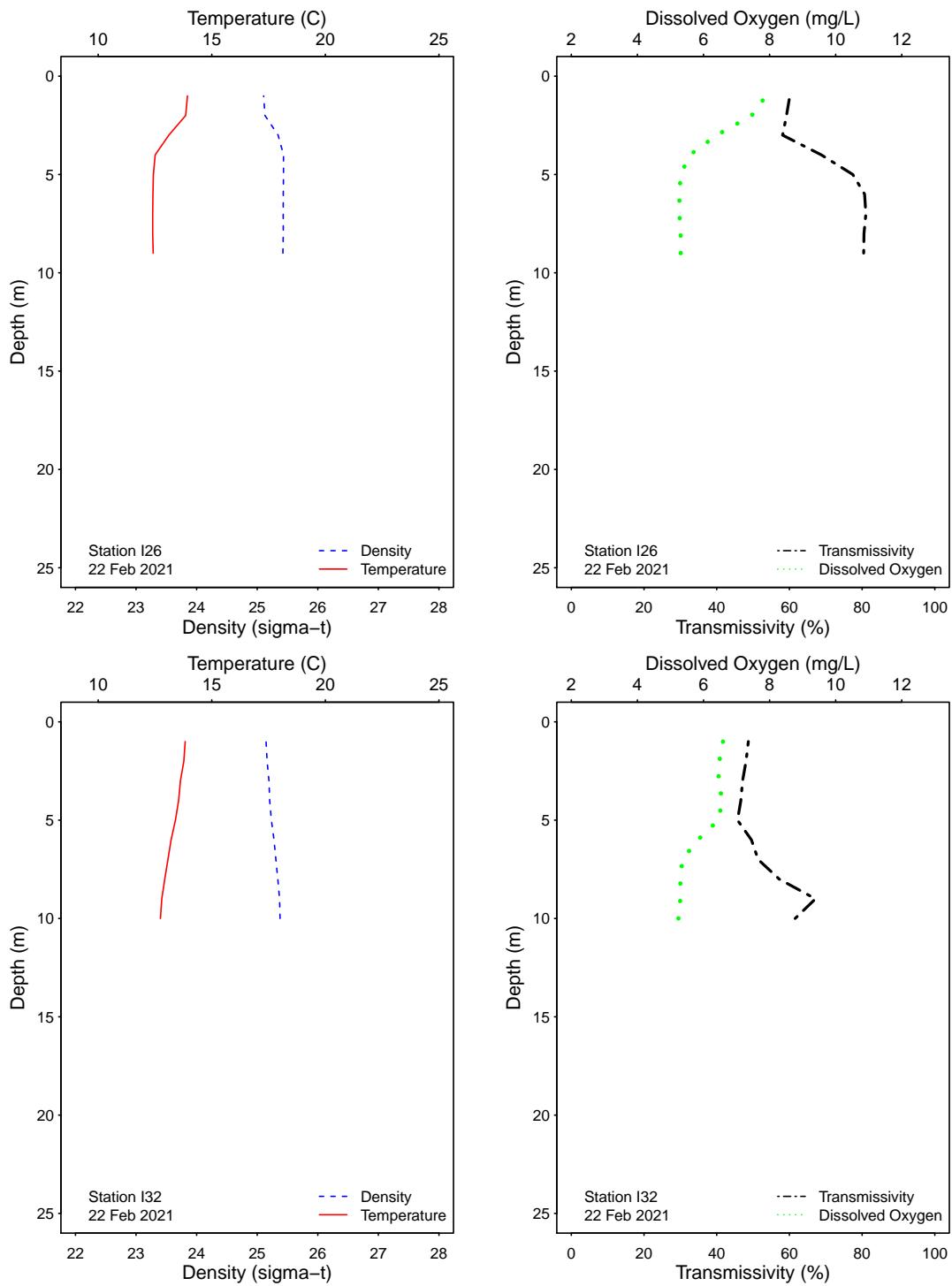


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

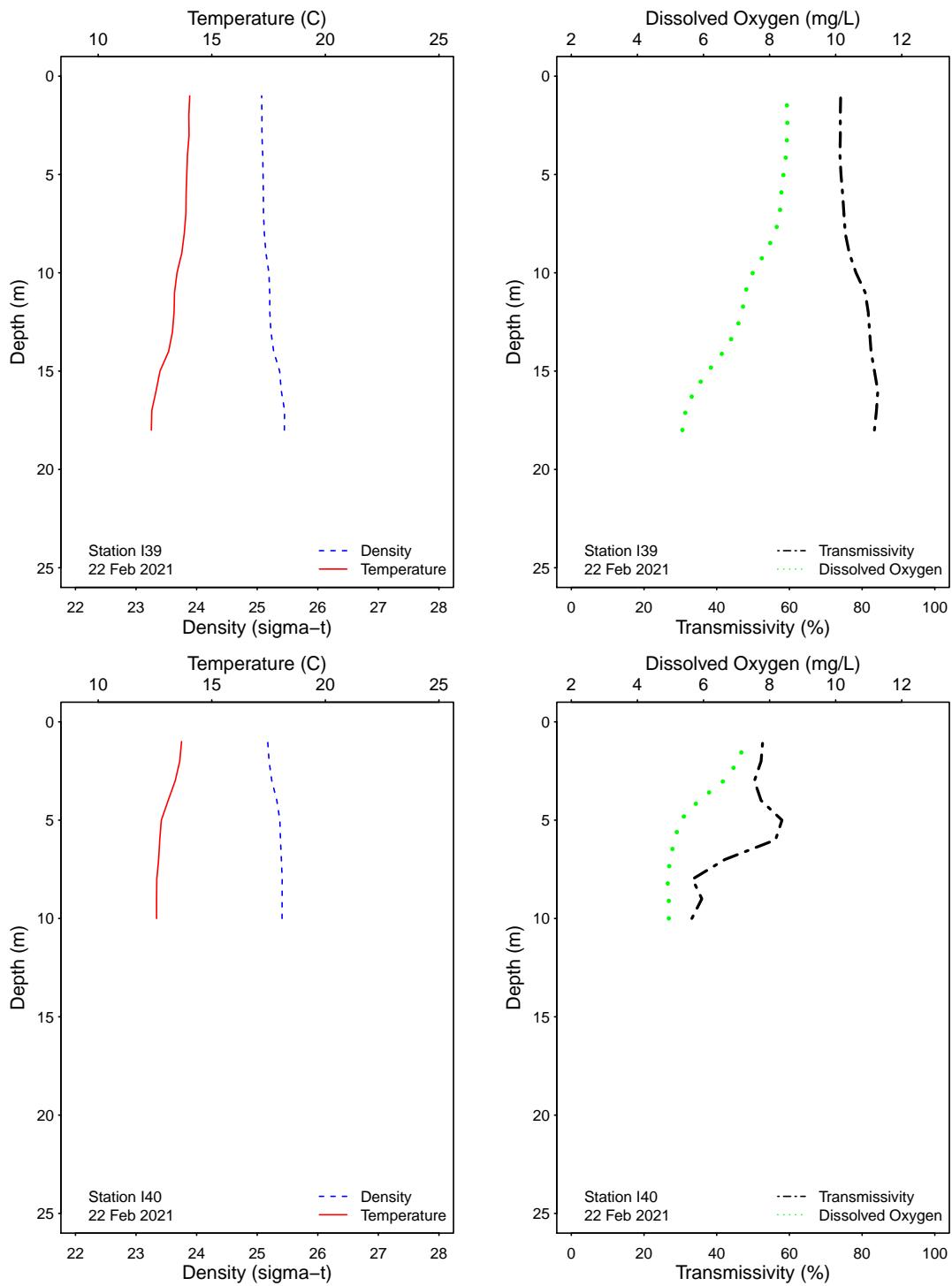


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

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# Offshore Stations



**Table 4.1**

Summary of compliance with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria at the SBOO offshore stations within three nautical miles of shore. Total coliform density shall not exceed 10,000 CFU/100 mL.

Date	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
10 Feb 2021	IC	IC	IC	IC	IC	E	ns	ns	ns	ns
11 Feb 2021	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 4.2**

Summary of compliance with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria at the SBOO offshore stations within three nautical miles of shore. Fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
10 Feb 2021	IC	IC	IC	IC	IC	E	ns	ns	ns	ns
11 Feb 2021	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 4.3**

Summary of compliance with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria at the SBOO offshore stations within three nautical miles of shore. *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
10 Feb 2021	IC	IC	IC	IC	IC	E	ns	ns	ns	ns
11 Feb 2021	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 4.4**

Summary of compliance with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T) at the SBOO offshore stations within three nautical miles of shore. Total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
10 Feb 2021	IC	IC	IC	IC	IC	E	ns	ns	ns	ns
11 Feb 2021	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 4.5**

Summary of water quality parameters at the SBOO offshore stations for each sample date. Densities of total coliform (Total), fecal coliform (Fecal) and *Enterococcus* (Enter) bacteria are reported as CFU/100 mL; the fecal:total coliform ratio (F:T) is unitless; values for temperature (Temp, °C), transmissivity (XMS, %), dissolved oxygen (DO, mg/L), salinity (Sal, ppt) and pH were extracted from CTD profile data for depths closest to those at which the bacteriological samples were collected. Comments follow the data summary.

Station	Date	Time	Depth	Total	Fecal	Enter	F:T	Temp	XMS	DO	Sal	pH
I10	09 Feb 2021	1107	2	2e	<2	<2	1.00	14.6	82.71	8.7	33.51	8.1
I10	09 Feb 2021	1107	12	<2	<2	<2	1.00	14.1	83.11	7.4	33.55	8.0
I10	09 Feb 2021	1107	18	100e	4e	4e	0.04	13.8	77.88	6.5	33.57	7.9
I11	09 Feb 2021	1054	2	1600e	400e	90	0.25	14.7	79.76	8.7	33.51	8.1
I11	09 Feb 2021	1054	6	<20	2e	80e	0.10	14.7	79.26	8.7	33.51	8.1
I11	09 Feb 2021	1054	11	1600e	240e	300e	0.15	14.2	76.67	7.1	33.54	7.9
I12	10 Feb 2021	1053	2	<2	<2	<2	1.00	14.7	84.18	8.3	33.51	8.2
I12	10 Feb 2021	1053	18	<2	<2	<2	1.00	13.7	85.96	6.9	33.56	8.1
I12	10 Feb 2021	1053	27	2e	<2	<2	1.00	13.6	85.27	6.5	33.58	8.1
I13	10 Feb 2021	1125	2	<2	<2	<2	1.00	14.6	84.35	8.5	33.49	8.2
I13	10 Feb 2021	1125	18	<2	<2	<2	1.00	14.1	83.99	7.5	33.54	8.2
I13	10 Feb 2021	1125	37	<2	<2	<2	1.00	12.5	85.61	5.1	33.67	8.0
I14	10 Feb 2021	1140	2	<2	<2	<2	1.00	14.7	84.09	8.4	33.51	8.2
I14	10 Feb 2021	1140	18	100e	8e	2e	0.08	14.0	85.54	7.2	33.55	8.1
I14	10 Feb 2021	1140	27	4e	<2	<2	0.50	13.7	83.65	6.5	33.57	8.1
I16	10 Feb 2021	1043	2	<2	<2	<2	1.00	14.8	84.31	8.3	33.52	8.2
I16	10 Feb 2021	1043	18	88	6e	<2	0.07	13.9	85.14	7.2	33.52	8.1
I16	10 Feb 2021	1043	27	4e	<2	<2	0.50	13.7	84.74	6.5	33.57	8.1
I18	10 Feb 2021	1016	2	<2	<2	<2	1.00	14.7	84.20	8.6	33.51	8.2
I18	10 Feb 2021	1016	12	4e	<2	<2	0.50	14.6	83.97	8.8	33.51	8.2
I18	10 Feb 2021	1016	18	22e	<2	4e	0.09	14.0	80.25	6.9	33.56	8.1
I20	10 Feb 2021	847	2	<2	<2	<2	1.00	14.4	80.60	8.5	33.45	8.2
I20	10 Feb 2021	847	18	<2	<2	<2	1.00	13.5	85.50	7.0	33.52	8.1
I20	10 Feb 2021	847	55	<2	<2	4e	1.00	11.6	86.74	4.3	33.78	7.8
I21	10 Feb 2021	908	2	<2	<2	<2	1.00	14.5	85.12	8.3	33.50	8.2
I21	10 Feb 2021	908	18	<2	<2	<2	1.00	13.4	86.84	6.5	33.60	8.1
I21	10 Feb 2021	908	37	2e	<2	<2	1.00	12.3	85.68	4.9	33.70	7.9
I22	10 Feb 2021	949	2	<2	<2	<2	1.00	14.7	83.84	8.5	33.51	8.2
I22	10 Feb 2021	949	18	90	18e	<2	0.20	14.2	84.79	7.5	33.52	8.1
I22	10 Feb 2021	949	27	12e	<2	<2	0.17	13.7	82.61	6.4	33.57	8.1
I23	10 Feb 2021	1003	2	16000	1800e	520	0.11	14.6	76.26	8.6	33.41	8.2
I23	10 Feb 2021	1003	12	220e	18e	4e	0.08	14.2	82.78	7.8	33.55	8.2
I23	10 Feb 2021	1003	18	18e	2e	4e	0.11	13.9	76.54	6.5	33.56	8.1
I3	09 Feb 2021	959	2	<2	<2	<2	1.00	14.7	83.79	8.3	33.51	8.0
I3	09 Feb 2021	959	18	<2	<2	<2	1.00	14.0	85.60	7.3	33.54	8.0
I3	09 Feb 2021	959	27	2e	<2	<2	1.00	13.6	85.11	6.5	33.58	7.9
I30	11 Feb 2021	938	2	<2	<2	<2	1.00	14.6	76.60	8.8	33.52	8.2
I30	11 Feb 2021	938	18	20e	<2	<2	0.10	13.8	84.67	6.8	33.55	8.1
I30	11 Feb 2021	938	27	6e	<2	<2	0.33	13.6	84.29	6.4	33.58	8.0

Station	Date	Time	Depth	Total	Fecal	Enteric	F:T	Temp	XMS	DO	Sal	pH
I33	11 Feb 2021	834	2	<2	2e	<2	1.00	14.3	79.76	8.0	33.53	8.1
I33	11 Feb 2021	834	18	<2	<2	<2	1.00	14.3	79.59	7.8	33.54	8.1
I33	11 Feb 2021	834	27	2e	2e	<2	1.00	14.0	83.35	7.2	33.56	8.1
I36	11 Feb 2021	1016	2	<2	<2	<2	1.00	14.7	62.03	9.6	33.52	8.3
I36	11 Feb 2021	1016	6	10e	4e	<2	0.40	14.6	69.56	8.8	33.51	8.2
I36	11 Feb 2021	1016	11	<200	12e	<2	0.06	14.4	72.69	7.7	33.52	8.1
I37	11 Feb 2021	807	2	10e	4e	<2	0.40	14.5	76.51	8.4	33.55	8.1
I37	11 Feb 2021	807	6	2e	<2	<2	1.00	14.5	76.23	8.2	33.55	8.1
I37	11 Feb 2021	807	11	4e	<2	<2	0.50	14.2	75.70	7.7	33.54	8.1
I38	11 Feb 2021	1050	2	<2	2e	<2	1.00	14.7	74.83	9.1	33.53	8.2
I38	11 Feb 2021	1050	6	6e	<2	<2	0.33	14.6	72.03	9.2	33.51	8.2
I38	11 Feb 2021	1050	11	6e	<2	<2	0.33	14.3	70.98	7.7	33.55	8.1
I5	09 Feb 2021	1020	2	6000	1400e	1100	0.23	14.7	59.55	8.4	33.44	8.0
I5	09 Feb 2021	1020	6	10000	4200	8600	0.42	14.6	80.47	8.4	33.51	8.0
I5	09 Feb 2021	1020	11	1200e	100	110	0.08	14.1	67.08	7.1	33.55	7.9
I7	09 Feb 2021	840	2	<2	<2	<2	1.00	14.4	81.95	8.7	33.50	8.0
I7	09 Feb 2021	840	18	2e	<2	<2	1.00	13.9	83.26	7.5	33.54	7.9
I7	09 Feb 2021	840	52	2e	<2	<2	1.00	11.8	86.62	4.5	33.76	7.7
I8	09 Feb 2021	1139	2	<2	<2	<2	1.00	14.6	83.12	8.5	33.51	8.1
I8	09 Feb 2021	1139	18	<2	<2	<2	1.00	13.6	86.88	6.7	33.57	7.9
I8	09 Feb 2021	1139	37	<2	<2	<2	1.00	13.2	85.32	6.0	33.59	7.8
I9	09 Feb 2021	1122	2	<2	<2	<2	1.00	14.7	82.94	8.7	33.50	8.1
I9	09 Feb 2021	1122	18	<2	<2	<2	1.00	14.0	83.93	7.4	33.54	8.0
I9	09 Feb 2021	1122	27	20e	<2	<2	0.10	13.5	82.64	6.2	33.58	7.9

ns = not sampled

ND = no data

**Table 4.6**

Summary of visual observations made during the month for each SBOO offshore station by sample date.

Station	Date	Parameter	Value
I1	09 Feb 2021	Depth (m)	62
I1	09 Feb 2021	Arrive Time	909
I1	09 Feb 2021	Depart Time	917
I1	09 Feb 2021	Air Temp (C)	13
I1	09 Feb 2021	Weather	Cloudy
I1	09 Feb 2021	Visibility (mi)	5
I1	09 Feb 2021	Wind Speed (kts)	4
I1	09 Feb 2021	Wind Dir	SW
I1	09 Feb 2021	Water Color	Green
I1	09 Feb 2021	Wave Ht Low (ft)	3
I1	09 Feb 2021	Wave Period (sec)	9
I1	09 Feb 2021	Sea State	Calm
I1	09 Feb 2021	High Tide (ft)	6.07
I1	09 Feb 2021	High Tide Time	700
I1	09 Feb 2021	Low Tide (ft)	-1.39
I1	09 Feb 2021	Low Tide Time	1417
I1	09 Feb 2021	Comments	none
I10	09 Feb 2021	Depth (m)	19
I10	09 Feb 2021	Arrive Time	1107
I10	09 Feb 2021	Depart Time	1114
I10	09 Feb 2021	Air Temp (C)	13
I10	09 Feb 2021	Weather	Cloudy
I10	09 Feb 2021	Visibility (mi)	5
I10	09 Feb 2021	Wind Speed (kts)	5
I10	09 Feb 2021	Wind Dir	W
I10	09 Feb 2021	Water Color	Green
I10	09 Feb 2021	Wave Ht Low (ft)	3
I10	09 Feb 2021	Wave Period (sec)	9
I10	09 Feb 2021	Sea State	Calm
I10	09 Feb 2021	High Tide (ft)	6.07
I10	09 Feb 2021	High Tide Time	700
I10	09 Feb 2021	Low Tide (ft)	-1.39
I10	09 Feb 2021	Low Tide Time	1417
I10	09 Feb 2021	Comments	none
I11	09 Feb 2021	Depth (m)	13
I11	09 Feb 2021	Arrive Time	1054
I11	09 Feb 2021	Depart Time	1059
I11	09 Feb 2021	Air Temp (C)	14
I11	09 Feb 2021	Weather	Cloudy
I11	09 Feb 2021	Visibility (mi)	5
I11	09 Feb 2021	Wind Speed (kts)	6
I11	09 Feb 2021	Wind Dir	W
I11	09 Feb 2021	Water Color	Green
I11	09 Feb 2021	Wave Ht Low (ft)	3
I11	09 Feb 2021	Wave Period (sec)	9
I11	09 Feb 2021	Sea State	Calm
I11	09 Feb 2021	High Tide (ft)	6.07
I11	09 Feb 2021	High Tide Time	700
I11	09 Feb 2021	Low Tide (ft)	-1.39
I11	09 Feb 2021	Low Tide Time	1417
I11	09 Feb 2021	Comments	none
I12	10 Feb 2021	Depth (m)	29
I12	10 Feb 2021	Arrive Time	1053

Station	Date	Parameter	Value
I12	10 Feb 2021	Depart Time	1107
I12	10 Feb 2021	Air Temp (C)	14
I12	10 Feb 2021	Weather	Partly Cloudy
I12	10 Feb 2021	Visibility (mi)	15
I12	10 Feb 2021	Wind Speed (kts)	4
I12	10 Feb 2021	Wind Dir	W
I12	10 Feb 2021	Water Color	Blue
I12	10 Feb 2021	Wave Ht Low (ft)	2
I12	10 Feb 2021	Wave Period (sec)	11
I12	10 Feb 2021	Sea State	Calm
I12	10 Feb 2021	High Tide (ft)	6.17
I12	10 Feb 2021	High Tide Time	744
I12	10 Feb 2021	Low Tide (ft)	-1.41
I12	10 Feb 2021	Low Tide Time	1453
I12	10 Feb 2021	Comments	none
I13	10 Feb 2021	Depth (m)	38
I13	10 Feb 2021	Arrive Time	1125
I13	10 Feb 2021	Depart Time	1131
I13	10 Feb 2021	Air Temp (C)	14
I13	10 Feb 2021	Weather	Partly Cloudy
I13	10 Feb 2021	Visibility (mi)	15
I13	10 Feb 2021	Wind Speed (kts)	7
I13	10 Feb 2021	Wind Dir	SW
I13	10 Feb 2021	Water Color	Blue
I13	10 Feb 2021	Wave Ht Low (ft)	2
I13	10 Feb 2021	Wave Period (sec)	11
I13	10 Feb 2021	Sea State	Calm
I13	10 Feb 2021	High Tide (ft)	6.17
I13	10 Feb 2021	High Tide Time	744
I13	10 Feb 2021	Low Tide (ft)	-1.41
I13	10 Feb 2021	Low Tide Time	1453
I13	10 Feb 2021	Comments	none
I14	10 Feb 2021	Depth (m)	28
I14	10 Feb 2021	Arrive Time	1140
I14	10 Feb 2021	Depart Time	1145
I14	10 Feb 2021	Air Temp (C)	15
I14	10 Feb 2021	Weather	Partly Cloudy
I14	10 Feb 2021	Visibility (mi)	15
I14	10 Feb 2021	Wind Speed (kts)	0
I14	10 Feb 2021	Wind Dir	
I14	10 Feb 2021	Water Color	Blue
I14	10 Feb 2021	Wave Ht Low (ft)	2
I14	10 Feb 2021	Wave Period (sec)	11
I14	10 Feb 2021	Sea State	Calm
I14	10 Feb 2021	High Tide (ft)	6.17
I14	10 Feb 2021	High Tide Time	744
I14	10 Feb 2021	Low Tide (ft)	-1.41
I14	10 Feb 2021	Low Tide Time	1453
I14	10 Feb 2021	Comments	none
I15	10 Feb 2021	Depth (m)	31
I15	10 Feb 2021	Arrive Time	1109
I15	10 Feb 2021	Depart Time	1116
I15	10 Feb 2021	Air Temp (C)	14
I15	10 Feb 2021	Weather	Partly Cloudy
I15	10 Feb 2021	Visibility (mi)	15
I15	10 Feb 2021	Wind Speed (kts)	3
I15	10 Feb 2021	Wind Dir	W
I15	10 Feb 2021	Water Color	Blue

Station	Date	Parameter	Value
I15	10 Feb 2021	Wave Ht Low (ft)	2
I15	10 Feb 2021	Wave Period (sec)	11
I15	10 Feb 2021	Sea State	Calm
I15	10 Feb 2021	High Tide (ft)	6.17
I15	10 Feb 2021	High Tide Time	744
I15	10 Feb 2021	Low Tide (ft)	-1.41
I15	10 Feb 2021	Low Tide Time	1453
I15	10 Feb 2021	Comments	none
I16	10 Feb 2021	Depth (m)	29
I16	10 Feb 2021	Arrive Time	1043
I16	10 Feb 2021	Depart Time	1049
I16	10 Feb 2021	Air Temp (C)	14
I16	10 Feb 2021	Weather	Partly Cloudy
I16	10 Feb 2021	Visibility (mi)	15
I16	10 Feb 2021	Wind Speed (kts)	11
I16	10 Feb 2021	Wind Dir	NW
I16	10 Feb 2021	Water Color	Blue
I16	10 Feb 2021	Wave Ht Low (ft)	2
I16	10 Feb 2021	Wave Period (sec)	11
I16	10 Feb 2021	Sea State	Calm
I16	10 Feb 2021	High Tide (ft)	6.17
I16	10 Feb 2021	High Tide Time	744
I16	10 Feb 2021	Low Tide (ft)	-1.41
I16	10 Feb 2021	Low Tide Time	1453
I16	10 Feb 2021	Comments	Sport fishing vessel on station; Boats
I17	10 Feb 2021	Depth (m)	27
I17	10 Feb 2021	Arrive Time	1028
I17	10 Feb 2021	Depart Time	1036
I17	10 Feb 2021	Air Temp (C)	14
I17	10 Feb 2021	Weather	Partly Cloudy
I17	10 Feb 2021	Visibility (mi)	15
I17	10 Feb 2021	Wind Speed (kts)	10
I17	10 Feb 2021	Wind Dir	W
I17	10 Feb 2021	Water Color	Blue
I17	10 Feb 2021	Wave Ht Low (ft)	2
I17	10 Feb 2021	Wave Period (sec)	11
I17	10 Feb 2021	Sea State	Calm
I17	10 Feb 2021	High Tide (ft)	6.17
I17	10 Feb 2021	High Tide Time	744
I17	10 Feb 2021	Low Tide (ft)	-1.41
I17	10 Feb 2021	Low Tide Time	1453
I17	10 Feb 2021	Comments	none
I18	10 Feb 2021	Depth (m)	21
I18	10 Feb 2021	Arrive Time	1016
I18	10 Feb 2021	Depart Time	1022
I18	10 Feb 2021	Air Temp (C)	14
I18	10 Feb 2021	Weather	Partly Cloudy
I18	10 Feb 2021	Visibility (mi)	15
I18	10 Feb 2021	Wind Speed (kts)	0
I18	10 Feb 2021	Wind Dir	
I18	10 Feb 2021	Water Color	Blue
I18	10 Feb 2021	Wave Ht Low (ft)	2
I18	10 Feb 2021	Wave Period (sec)	11
I18	10 Feb 2021	Sea State	Calm
I18	10 Feb 2021	High Tide (ft)	6.17
I18	10 Feb 2021	High Tide Time	744
I18	10 Feb 2021	Low Tide (ft)	-1.41
I18	10 Feb 2021	Low Tide Time	1453

Station	Date	Parameter	Value
I18	10 Feb 2021	Comments	none
I2	09 Feb 2021	Depth (m)	33
I2	09 Feb 2021	Arrive Time	944
I2	09 Feb 2021	Depart Time	949
I2	09 Feb 2021	Air Temp (C)	14
I2	09 Feb 2021	Weather	Cloudy
I2	09 Feb 2021	Visibility (mi)	5
I2	09 Feb 2021	Wind Speed (kts)	0
I2	09 Feb 2021	Wind Dir	
I2	09 Feb 2021	Water Color	Green
I2	09 Feb 2021	Wave Ht Low (ft)	3
I2	09 Feb 2021	Wave Period (sec)	9
I2	09 Feb 2021	Sea State	Calm
I2	09 Feb 2021	High Tide (ft)	6.07
I2	09 Feb 2021	High Tide Time	700
I2	09 Feb 2021	Low Tide (ft)	-1.39
I2	09 Feb 2021	Low Tide Time	1417
I2	09 Feb 2021	Comments	none
I20	10 Feb 2021	Depth (m)	56
I20	10 Feb 2021	Arrive Time	847
I20	10 Feb 2021	Depart Time	858
I20	10 Feb 2021	Air Temp (C)	14
I20	10 Feb 2021	Weather	Partly Cloudy
I20	10 Feb 2021	Visibility (mi)	12
I20	10 Feb 2021	Wind Speed (kts)	2
I20	10 Feb 2021	Wind Dir	NW
I20	10 Feb 2021	Water Color	Blue
I20	10 Feb 2021	Wave Ht Low (ft)	2
I20	10 Feb 2021	Wave Period (sec)	13
I20	10 Feb 2021	Sea State	Calm
I20	10 Feb 2021	High Tide (ft)	6.17
I20	10 Feb 2021	High Tide Time	744
I20	10 Feb 2021	Low Tide (ft)	-1.41
I20	10 Feb 2021	Low Tide Time	1453
I20	10 Feb 2021	Comments	none
I21	10 Feb 2021	Depth (m)	48
I21	10 Feb 2021	Arrive Time	908
I21	10 Feb 2021	Depart Time	921
I21	10 Feb 2021	Air Temp (C)	14
I21	10 Feb 2021	Weather	Partly Cloudy
I21	10 Feb 2021	Visibility (mi)	12
I21	10 Feb 2021	Wind Speed (kts)	0
I21	10 Feb 2021	Wind Dir	
I21	10 Feb 2021	Water Color	Blue
I21	10 Feb 2021	Wave Ht Low (ft)	2
I21	10 Feb 2021	Wave Period (sec)	13
I21	10 Feb 2021	Sea State	Calm
I21	10 Feb 2021	High Tide (ft)	6.17
I21	10 Feb 2021	High Tide Time	744
I21	10 Feb 2021	Low Tide (ft)	-1.41
I21	10 Feb 2021	Low Tide Time	1453
I21	10 Feb 2021	Comments	none
I22	10 Feb 2021	Depth (m)	29
I22	10 Feb 2021	Arrive Time	949
I22	10 Feb 2021	Depart Time	957
I22	10 Feb 2021	Air Temp (C)	14
I22	10 Feb 2021	Weather	Partly Cloudy

Station	Date	Parameter	Value
I22	10 Feb 2021	Visibility (mi)	12
I22	10 Feb 2021	Wind Speed (kts)	1
I22	10 Feb 2021	Wind Dir	SE
I22	10 Feb 2021	Water Color	Blue
I22	10 Feb 2021	Wave Ht Low (ft)	2
I22	10 Feb 2021	Wave Period (sec)	13
I22	10 Feb 2021	Sea State	Calm
I22	10 Feb 2021	High Tide (ft)	6.17
I22	10 Feb 2021	High Tide Time	744
I22	10 Feb 2021	Low Tide (ft)	-1.41
I22	10 Feb 2021	Low Tide Time	1453
I22	10 Feb 2021	Comments	none
I23	10 Feb 2021	Depth (m)	22
I23	10 Feb 2021	Arrive Time	1003
I23	10 Feb 2021	Depart Time	1009
I23	10 Feb 2021	Air Temp (C)	14
I23	10 Feb 2021	Weather	Partly Cloudy
I23	10 Feb 2021	Visibility (mi)	15
I23	10 Feb 2021	Wind Speed (kts)	2
I23	10 Feb 2021	Wind Dir	NE
I23	10 Feb 2021	Water Color	Blue
I23	10 Feb 2021	Wave Ht Low (ft)	2
I23	10 Feb 2021	Wave Period (sec)	11
I23	10 Feb 2021	Sea State	Calm
I23	10 Feb 2021	High Tide (ft)	6.17
I23	10 Feb 2021	High Tide Time	744
I23	10 Feb 2021	Low Tide (ft)	-1.41
I23	10 Feb 2021	Low Tide Time	1453
I23	10 Feb 2021	Comments	none
I27	10 Feb 2021	Depth (m)	29
I27	10 Feb 2021	Arrive Time	934
I27	10 Feb 2021	Depart Time	942
I27	10 Feb 2021	Air Temp (C)	14
I27	10 Feb 2021	Weather	Partly Cloudy
I27	10 Feb 2021	Visibility (mi)	12
I27	10 Feb 2021	Wind Speed (kts)	7
I27	10 Feb 2021	Wind Dir	N
I27	10 Feb 2021	Water Color	Blue
I27	10 Feb 2021	Wave Ht Low (ft)	2
I27	10 Feb 2021	Wave Period (sec)	13
I27	10 Feb 2021	Sea State	Calm
I27	10 Feb 2021	High Tide (ft)	6.17
I27	10 Feb 2021	High Tide Time	744
I27	10 Feb 2021	Low Tide (ft)	-1.41
I27	10 Feb 2021	Low Tide Time	1453
I27	10 Feb 2021	Comments	none
I28	11 Feb 2021	Depth (m)	55
I28	11 Feb 2021	Arrive Time	854
I28	11 Feb 2021	Depart Time	903
I28	11 Feb 2021	Air Temp (C)	12
I28	11 Feb 2021	Weather	Haze
I28	11 Feb 2021	Visibility (mi)	6
I28	11 Feb 2021	Wind Speed (kts)	1
I28	11 Feb 2021	Wind Dir	SE
I28	11 Feb 2021	Water Color	Green
I28	11 Feb 2021	Wave Ht Low (ft)	3
I28	11 Feb 2021	Wave Period (sec)	11
I28	11 Feb 2021	Sea State	Calm

Station	Date	Parameter	Value
I28	11 Feb 2021	High Tide (ft)	6.11
I28	11 Feb 2021	High Tide Time	824
I28	11 Feb 2021	Low Tide (ft)	-1.26
I28	11 Feb 2021	Low Tide Time	1526
I28	11 Feb 2021	Comments	none
I29	11 Feb 2021	Depth (m)	38
I29	11 Feb 2021	Arrive Time	924
I29	11 Feb 2021	Depart Time	930
I29	11 Feb 2021	Air Temp (C)	12
I29	11 Feb 2021	Weather	Haze
I29	11 Feb 2021	Visibility (mi)	6
I29	11 Feb 2021	Wind Speed (kts)	6
I29	11 Feb 2021	Wind Dir	E
I29	11 Feb 2021	Water Color	Green
I29	11 Feb 2021	Wave Ht Low (ft)	3
I29	11 Feb 2021	Wave Period (sec)	11
I29	11 Feb 2021	Sea State	Calm
I29	11 Feb 2021	High Tide (ft)	6.11
I29	11 Feb 2021	High Tide Time	824
I29	11 Feb 2021	Low Tide (ft)	-1.26
I29	11 Feb 2021	Low Tide Time	1526
I29	11 Feb 2021	Comments	none
I3	09 Feb 2021	Depth (m)	27
I3	09 Feb 2021	Arrive Time	959
I3	09 Feb 2021	Depart Time	1005
I3	09 Feb 2021	Air Temp (C)	14
I3	09 Feb 2021	Weather	Cloudy
I3	09 Feb 2021	Visibility (mi)	5
I3	09 Feb 2021	Wind Speed (kts)	5
I3	09 Feb 2021	Wind Dir	SE
I3	09 Feb 2021	Water Color	Green
I3	09 Feb 2021	Wave Ht Low (ft)	3
I3	09 Feb 2021	Wave Period (sec)	9
I3	09 Feb 2021	Sea State	Calm
I3	09 Feb 2021	High Tide (ft)	6.07
I3	09 Feb 2021	High Tide Time	700
I3	09 Feb 2021	Low Tide (ft)	-1.39
I3	09 Feb 2021	Low Tide Time	1417
I3	09 Feb 2021	Comments	none
I30	11 Feb 2021	Depth (m)	29
I30	11 Feb 2021	Arrive Time	938
I30	11 Feb 2021	Depart Time	944
I30	11 Feb 2021	Air Temp (C)	13
I30	11 Feb 2021	Weather	Haze
I30	11 Feb 2021	Visibility (mi)	6
I30	11 Feb 2021	Wind Speed (kts)	4
I30	11 Feb 2021	Wind Dir	NE
I30	11 Feb 2021	Water Color	Green
I30	11 Feb 2021	Wave Ht Low (ft)	3
I30	11 Feb 2021	Wave Period (sec)	11
I30	11 Feb 2021	Sea State	Calm
I30	11 Feb 2021	High Tide (ft)	6.11
I30	11 Feb 2021	High Tide Time	824
I30	11 Feb 2021	Low Tide (ft)	-1.26
I30	11 Feb 2021	Low Tide Time	1526
I30	11 Feb 2021	Comments	none
I31	11 Feb 2021	Depth (m)	20

Station	Date	Parameter	Value
I31	11 Feb 2021	Arrive Time	954
I31	11 Feb 2021	Depart Time	958
I31	11 Feb 2021	Air Temp (C)	13
I31	11 Feb 2021	Weather	Haze
I31	11 Feb 2021	Visibility (mi)	6
I31	11 Feb 2021	Wind Speed (kts)	4
I31	11 Feb 2021	Wind Dir	NE
I31	11 Feb 2021	Water Color	Green
I31	11 Feb 2021	Wave Ht Low (ft)	3
I31	11 Feb 2021	Wave Period (sec)	11
I31	11 Feb 2021	Sea State	Calm
I31	11 Feb 2021	High Tide (ft)	6.11
I31	11 Feb 2021	High Tide Time	824
I31	11 Feb 2021	Low Tide (ft)	-1.26
I31	11 Feb 2021	Low Tide Time	1526
I31	11 Feb 2021	Comments	none
I33	11 Feb 2021	Depth (m)	30
I33	11 Feb 2021	Arrive Time	834
I33	11 Feb 2021	Depart Time	839
I33	11 Feb 2021	Air Temp (C)	12
I33	11 Feb 2021	Weather	Haze
I33	11 Feb 2021	Visibility (mi)	6
I33	11 Feb 2021	Wind Speed (kts)	2
I33	11 Feb 2021	Wind Dir	N
I33	11 Feb 2021	Water Color	Green
I33	11 Feb 2021	Wave Ht Low (ft)	3
I33	11 Feb 2021	Wave Period (sec)	11
I33	11 Feb 2021	Sea State	Calm
I33	11 Feb 2021	High Tide (ft)	6.11
I33	11 Feb 2021	High Tide Time	824
I33	11 Feb 2021	Low Tide (ft)	-1.26
I33	11 Feb 2021	Low Tide Time	1526
I33	11 Feb 2021	Comments	none
I34	11 Feb 2021	Depth (m)	19
I34	11 Feb 2021	Arrive Time	820
I34	11 Feb 2021	Depart Time	827
I34	11 Feb 2021	Air Temp (C)	12
I34	11 Feb 2021	Weather	Haze
I34	11 Feb 2021	Visibility (mi)	6
I34	11 Feb 2021	Wind Speed (kts)	3
I34	11 Feb 2021	Wind Dir	NE
I34	11 Feb 2021	Water Color	Green
I34	11 Feb 2021	Wave Ht Low (ft)	3
I34	11 Feb 2021	Wave Period (sec)	11
I34	11 Feb 2021	Sea State	Calm
I34	11 Feb 2021	High Tide (ft)	6.11
I34	11 Feb 2021	High Tide Time	824
I34	11 Feb 2021	Low Tide (ft)	-1.26
I34	11 Feb 2021	Low Tide Time	1526
I34	11 Feb 2021	Comments	none
I35	11 Feb 2021	Depth (m)	19
I35	11 Feb 2021	Arrive Time	1033
I35	11 Feb 2021	Depart Time	1037
I35	11 Feb 2021	Air Temp (C)	14
I35	11 Feb 2021	Weather	Haze
I35	11 Feb 2021	Visibility (mi)	6
I35	11 Feb 2021	Wind Speed (kts)	7
I35	11 Feb 2021	Wind Dir	W

Station	Date	Parameter	Value
I35	11 Feb 2021	Water Color	Brown
I35	11 Feb 2021	Wave Ht Low (ft)	3
I35	11 Feb 2021	Wave Period (sec)	11
I35	11 Feb 2021	Sea State	Calm
I35	11 Feb 2021	High Tide (ft)	6.11
I35	11 Feb 2021	High Tide Time	824
I35	11 Feb 2021	Low Tide (ft)	-1.26
I35	11 Feb 2021	Low Tide Time	1526
I35	11 Feb 2021	Comments	none
I36	11 Feb 2021	Depth (m)	11
I36	11 Feb 2021	Arrive Time	1016
I36	11 Feb 2021	Depart Time	1023
I36	11 Feb 2021	Air Temp (C)	13
I36	11 Feb 2021	Weather	Haze
I36	11 Feb 2021	Visibility (mi)	6
I36	11 Feb 2021	Wind Speed (kts)	3
I36	11 Feb 2021	Wind Dir	NW
I36	11 Feb 2021	Water Color	Brown
I36	11 Feb 2021	Wave Ht Low (ft)	3
I36	11 Feb 2021	Wave Period (sec)	11
I36	11 Feb 2021	Sea State	Calm
I36	11 Feb 2021	High Tide (ft)	6.11
I36	11 Feb 2021	High Tide Time	824
I36	11 Feb 2021	Low Tide (ft)	-1.26
I36	11 Feb 2021	Low Tide Time	1526
I36	11 Feb 2021	Comments	none
I37	11 Feb 2021	Depth (m)	14
I37	11 Feb 2021	Arrive Time	807
I37	11 Feb 2021	Depart Time	812
I37	11 Feb 2021	Air Temp (C)	12
I37	11 Feb 2021	Weather	Haze
I37	11 Feb 2021	Visibility (mi)	6
I37	11 Feb 2021	Wind Speed (kts)	5
I37	11 Feb 2021	Wind Dir	NE
I37	11 Feb 2021	Water Color	Green
I37	11 Feb 2021	Wave Ht Low (ft)	3
I37	11 Feb 2021	Wave Period (sec)	11
I37	11 Feb 2021	Sea State	Calm
I37	11 Feb 2021	High Tide (ft)	6.11
I37	11 Feb 2021	High Tide Time	824
I37	11 Feb 2021	Low Tide (ft)	-1.26
I37	11 Feb 2021	Low Tide Time	1526
I37	11 Feb 2021	Comments	none
I38	11 Feb 2021	Depth (m)	11
I38	11 Feb 2021	Arrive Time	1050
I38	11 Feb 2021	Depart Time	1056
I38	11 Feb 2021	Air Temp (C)	13
I38	11 Feb 2021	Weather	Haze
I38	11 Feb 2021	Visibility (mi)	6
I38	11 Feb 2021	Wind Speed (kts)	16
I38	11 Feb 2021	Wind Dir	NW
I38	11 Feb 2021	Water Color	Brown
I38	11 Feb 2021	Wave Ht Low (ft)	3
I38	11 Feb 2021	Wave Period (sec)	11
I38	11 Feb 2021	Sea State	Calm
I38	11 Feb 2021	High Tide (ft)	6.11
I38	11 Feb 2021	High Tide Time	824
I38	11 Feb 2021	Low Tide (ft)	-1.26

Station	Date	Parameter	Value
I38	11 Feb 2021	Low Tide Time	1526
I38	11 Feb 2021	Comments	none
I4	09 Feb 2021	Depth (m)	20
I4	09 Feb 2021	Arrive Time	1012
I4	09 Feb 2021	Depart Time	1019
I4	09 Feb 2021	Air Temp (C)	14
I4	09 Feb 2021	Weather	Cloudy
I4	09 Feb 2021	Visibility (mi)	5
I4	09 Feb 2021	Wind Speed (kts)	0
I4	09 Feb 2021	Wind Dir	
I4	09 Feb 2021	Water Color	Green
I4	09 Feb 2021	Wave Ht Low (ft)	3
I4	09 Feb 2021	Wave Period (sec)	9
I4	09 Feb 2021	Sea State	Calm
I4	09 Feb 2021	High Tide (ft)	6.07
I4	09 Feb 2021	High Tide Time	700
I4	09 Feb 2021	Low Tide (ft)	-1.39
I4	09 Feb 2021	Low Tide Time	1417
I4	09 Feb 2021	Comments	none
I5	09 Feb 2021	Depth (m)	13
I5	09 Feb 2021	Arrive Time	1020
I5	09 Feb 2021	Depart Time	1025
I5	09 Feb 2021	Air Temp (C)	14
I5	09 Feb 2021	Weather	Cloudy
I5	09 Feb 2021	Visibility (mi)	5
I5	09 Feb 2021	Wind Speed (kts)	0
I5	09 Feb 2021	Wind Dir	
I5	09 Feb 2021	Water Color	Greenish-Brown
I5	09 Feb 2021	Wave Ht Low (ft)	3
I5	09 Feb 2021	Wave Period (sec)	9
I5	09 Feb 2021	Sea State	Calm
I5	09 Feb 2021	High Tide (ft)	6.07
I5	09 Feb 2021	High Tide Time	700
I5	09 Feb 2021	Low Tide (ft)	-1.39
I5	09 Feb 2021	Low Tide Time	1417
I5	09 Feb 2021	Comments	none
I6	09 Feb 2021	Depth (m)	25
I6	09 Feb 2021	Arrive Time	1038
I6	09 Feb 2021	Depart Time	1043
I6	09 Feb 2021	Air Temp (C)	14
I6	09 Feb 2021	Weather	Cloudy
I6	09 Feb 2021	Visibility (mi)	5
I6	09 Feb 2021	Wind Speed (kts)	8
I6	09 Feb 2021	Wind Dir	W
I6	09 Feb 2021	Water Color	Green
I6	09 Feb 2021	Wave Ht Low (ft)	3
I6	09 Feb 2021	Wave Period (sec)	9
I6	09 Feb 2021	Sea State	Calm
I6	09 Feb 2021	High Tide (ft)	6.07
I6	09 Feb 2021	High Tide Time	700
I6	09 Feb 2021	Low Tide (ft)	-1.39
I6	09 Feb 2021	Low Tide Time	1417
I6	09 Feb 2021	Comments	none
I7	09 Feb 2021	Depth (m)	52
I7	09 Feb 2021	Arrive Time	840
I7	09 Feb 2021	Depart Time	848
I7	09 Feb 2021	Air Temp (C)	13

Station	Date	Parameter	Value
I7	09 Feb 2021	Weather	Cloudy
I7	09 Feb 2021	Visibility (mi)	5
I7	09 Feb 2021	Wind Speed (kts)	9
I7	09 Feb 2021	Wind Dir	S
I7	09 Feb 2021	Water Color	Green
I7	09 Feb 2021	Wave Ht Low (ft)	3
I7	09 Feb 2021	Wave Period (sec)	9
I7	09 Feb 2021	Sea State	Calm
I7	09 Feb 2021	High Tide (ft)	6.07
I7	09 Feb 2021	High Tide Time	700
I7	09 Feb 2021	Low Tide (ft)	-1.39
I7	09 Feb 2021	Low Tide Time	1417
I7	09 Feb 2021	Comments	none
I8	09 Feb 2021	Depth (m)	35
I8	09 Feb 2021	Arrive Time	1139
I8	09 Feb 2021	Depart Time	1145
I8	09 Feb 2021	Air Temp (C)	14
I8	09 Feb 2021	Weather	Cloudy
I8	09 Feb 2021	Visibility (mi)	5
I8	09 Feb 2021	Wind Speed (kts)	2
I8	09 Feb 2021	Wind Dir	N
I8	09 Feb 2021	Water Color	Green
I8	09 Feb 2021	Wave Ht Low (ft)	3
I8	09 Feb 2021	Wave Period (sec)	9
I8	09 Feb 2021	Sea State	Calm
I8	09 Feb 2021	High Tide (ft)	6.07
I8	09 Feb 2021	High Tide Time	700
I8	09 Feb 2021	Low Tide (ft)	-1.39
I8	09 Feb 2021	Low Tide Time	1417
I8	09 Feb 2021	Comments	none
I9	09 Feb 2021	Depth (m)	29
I9	09 Feb 2021	Arrive Time	1122
I9	09 Feb 2021	Depart Time	1127
I9	09 Feb 2021	Air Temp (C)	13
I9	09 Feb 2021	Weather	Cloudy
I9	09 Feb 2021	Visibility (mi)	5
I9	09 Feb 2021	Wind Speed (kts)	6
I9	09 Feb 2021	Wind Dir	W
I9	09 Feb 2021	Water Color	Green
I9	09 Feb 2021	Wave Ht Low (ft)	3
I9	09 Feb 2021	Wave Period (sec)	9
I9	09 Feb 2021	Sea State	Calm
I9	09 Feb 2021	High Tide (ft)	6.07
I9	09 Feb 2021	High Tide Time	700
I9	09 Feb 2021	Low Tide (ft)	-1.39
I9	09 Feb 2021	Low Tide Time	1417
I9	09 Feb 2021	Comments	none

**Table 4.7**

Summary of CTD profile data from the SBOO offshore stations for each sample date.

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I1	09 Feb 2021	1	14.41	83.91	8.5	33.44	8.0	24.9	1.32
I1	09 Feb 2021	2	14.41	83.94	8.5	33.44	8.0	24.9	1.37
I1	09 Feb 2021	3	14.41	83.96	8.5	33.44	8.0	24.9	1.45
I1	09 Feb 2021	4	14.41	83.90	8.5	33.44	8.0	24.9	1.47
I1	09 Feb 2021	5	14.41	83.99	8.5	33.44	8.0	24.9	1.50
I1	09 Feb 2021	6	14.37	83.89	8.5	33.44	8.0	24.9	1.81
I1	09 Feb 2021	7	14.24	83.43	8.5	33.45	8.0	24.9	2.33
I1	09 Feb 2021	8	14.23	82.65	8.5	33.46	8.0	24.9	2.85
I1	09 Feb 2021	9	14.07	82.10	8.3	33.49	8.0	25.0	3.27
I1	09 Feb 2021	10	13.96	82.38	8.0	33.49	8.0	25.0	3.23
I1	09 Feb 2021	11	13.89	83.16	7.7	33.51	8.0	25.1	3.03
I1	09 Feb 2021	12	13.82	83.64	7.6	33.51	8.0	25.1	2.84
I1	09 Feb 2021	13	13.81	83.70	7.5	33.51	8.0	25.1	2.81
I1	09 Feb 2021	14	13.81	83.88	7.5	33.51	8.0	25.1	2.68
I1	09 Feb 2021	15	13.78	84.09	7.4	33.52	7.9	25.1	2.23
I1	09 Feb 2021	16	13.60	84.91	7.0	33.56	7.9	25.2	1.72
I1	09 Feb 2021	17	13.46	86.24	6.6	33.57	7.9	25.2	1.29
I1	09 Feb 2021	18	13.28	86.57	6.3	33.59	7.9	25.2	1.08
I1	09 Feb 2021	19	13.20	86.50	6.2	33.59	7.9	25.3	0.95
I1	09 Feb 2021	20	13.16	86.57	6.2	33.59	7.8	25.3	0.91
I1	09 Feb 2021	21	13.13	86.55	6.2	33.59	7.8	25.3	0.90
I1	09 Feb 2021	22	13.04	86.28	6.1	33.60	7.8	25.3	0.84
I1	09 Feb 2021	23	13.01	86.46	6.0	33.59	7.8	25.3	0.85
I1	09 Feb 2021	24	12.88	86.52	5.9	33.60	7.8	25.3	0.84
I1	09 Feb 2021	25	12.78	86.51	5.8	33.60	7.8	25.4	0.82
I1	09 Feb 2021	26	12.72	86.61	5.8	33.60	7.8	25.4	0.79
I1	09 Feb 2021	27	12.63	86.62	5.7	33.61	7.8	25.4	0.75
I1	09 Feb 2021	28	12.54	86.75	5.7	33.61	7.8	25.4	0.70
I1	09 Feb 2021	29	12.49	86.79	5.7	33.60	7.8	25.4	0.69
I1	09 Feb 2021	30	12.42	86.89	5.6	33.61	7.8	25.4	0.66
I1	09 Feb 2021	31	12.36	86.92	5.5	33.62	7.8	25.5	0.62
I1	09 Feb 2021	32	12.32	87.06	5.4	33.63	7.8	25.5	0.60
I1	09 Feb 2021	33	12.25	87.07	5.3	33.65	7.8	25.5	0.58
I1	09 Feb 2021	34	12.23	87.15	5.3	33.64	7.8	25.5	0.59
I1	09 Feb 2021	35	12.21	87.06	5.3	33.64	7.8	25.5	0.57
I1	09 Feb 2021	36	12.18	87.06	5.2	33.65	7.8	25.5	0.55
I1	09 Feb 2021	37	12.13	87.18	5.2	33.67	7.8	25.5	0.52
I1	09 Feb 2021	38	12.09	87.20	5.1	33.67	7.8	25.5	0.52
I1	09 Feb 2021	39	12.04	87.21	5.0	33.69	7.7	25.6	0.49
I1	09 Feb 2021	40	12.01	87.30	5.0	33.69	7.7	25.6	0.48
I1	09 Feb 2021	41	11.99	87.30	5.0	33.69	7.7	25.6	0.45
I1	09 Feb 2021	42	11.89	87.40	4.8	33.72	7.7	25.6	0.43
I1	09 Feb 2021	43	11.82	87.46	4.8	33.72	7.7	25.6	0.40
I1	09 Feb 2021	44	11.80	87.53	4.8	33.73	7.7	25.6	0.39
I1	09 Feb 2021	45	11.79	87.52	4.8	33.73	7.7	25.6	0.38
I1	09 Feb 2021	46	11.77	87.55	4.8	33.73	7.7	25.6	0.39
I1	09 Feb 2021	47	11.77	87.51	4.7	33.73	7.7	25.6	0.38
I1	09 Feb 2021	48	11.76	87.56	4.7	33.73	7.7	25.7	0.37
I1	09 Feb 2021	49	11.75	87.54	4.7	33.74	7.7	25.7	0.37
I1	09 Feb 2021	50	11.74	87.54	4.7	33.74	7.7	25.7	0.36
I1	09 Feb 2021	51	11.72	87.56	4.7	33.74	7.7	25.7	0.39
I1	09 Feb 2021	52	11.70	87.44	4.6	33.75	7.7	25.7	0.36
I1	09 Feb 2021	53	11.68	87.50	4.6	33.76	7.7	25.7	0.37
I1	09 Feb 2021	54	11.67	87.48	4.6	33.76	7.7	25.7	0.36
I1	09 Feb 2021	55	11.64	87.46	4.6	33.76	7.7	25.7	0.36
I1	09 Feb 2021	56	11.63	87.46	4.6	33.77	7.7	25.7	0.37

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I1	09 Feb 2021	57	11.62	87.43	4.6	33.77	7.7	25.7	0.36
I1	09 Feb 2021	58	11.62	87.47	4.5	33.77	7.7	25.7	0.35
I1	09 Feb 2021	59	11.57	87.40	4.5	33.78	7.7	25.7	0.35
I1	09 Feb 2021	60	11.55	87.39	4.5	33.78	7.7	25.7	0.34
I10	09 Feb 2021	1	14.61	82.73	8.7	33.51	8.1	24.9	1.97
I10	09 Feb 2021	2	14.61	82.71	8.7	33.51	8.1	24.9	2.03
I10	09 Feb 2021	3	14.61	82.55	8.7	33.51	8.1	24.9	2.19
I10	09 Feb 2021	4	14.60	82.54	8.7	33.51	8.1	24.9	2.50
I10	09 Feb 2021	5	14.59	82.44	8.7	33.51	8.1	24.9	2.51
I10	09 Feb 2021	6	14.59	82.35	8.7	33.51	8.1	24.9	2.57
I10	09 Feb 2021	7	14.58	82.41	8.7	33.51	8.1	24.9	2.60
I10	09 Feb 2021	8	14.54	82.42	8.6	33.52	8.1	24.9	2.70
I10	09 Feb 2021	9	14.37	82.12	8.1	33.54	8.0	25.0	2.76
I10	09 Feb 2021	10	14.14	82.37	7.6	33.56	8.0	25.0	2.68
I10	09 Feb 2021	11	14.06	82.89	7.4	33.55	8.0	25.1	2.70
I10	09 Feb 2021	12	14.06	83.11	7.4	33.55	8.0	25.1	2.68
I10	09 Feb 2021	13	14.06	83.50	7.4	33.55	8.0	25.1	2.75
I10	09 Feb 2021	14	14.03	83.43	7.3	33.56	8.0	25.1	2.88
I10	09 Feb 2021	15	13.87	83.38	7.0	33.57	7.9	25.1	2.85
I10	09 Feb 2021	16	13.83	81.28	6.6	33.57	7.9	25.1	2.43
I10	09 Feb 2021	17	13.80	78.64	6.6	33.57	7.9	25.1	2.26
I10	09 Feb 2021	18	13.78	77.88	6.5	33.57	7.9	25.1	2.18
I10	09 Feb 2021	19	13.76	77.97	6.5	33.57	7.9	25.1	1.99
I11	09 Feb 2021	1	14.69	79.97	8.7	33.51	8.1	24.9	3.21
I11	09 Feb 2021	2	14.69	79.76	8.7	33.51	8.1	24.9	3.61
I11	09 Feb 2021	3	14.68	79.40	8.7	33.51	8.1	24.9	4.43
I11	09 Feb 2021	4	14.67	79.18	8.7	33.51	8.1	24.9	5.03
I11	09 Feb 2021	5	14.67	79.04	8.7	33.51	8.1	24.9	5.17
I11	09 Feb 2021	6	14.66	79.26	8.7	33.51	8.1	24.9	4.87
I11	09 Feb 2021	7	14.66	79.78	8.7	33.51	8.1	24.9	4.22
I11	09 Feb 2021	8	14.65	80.27	8.6	33.52	8.1	24.9	3.38
I11	09 Feb 2021	9	14.56	81.52	8.2	33.53	8.0	24.9	2.77
I11	09 Feb 2021	10	14.33	81.60	7.6	33.54	8.0	25.0	2.66
I11	09 Feb 2021	11	14.17	76.67	7.1	33.54	7.9	25.0	2.40
I11	09 Feb 2021	12	14.13	70.38	7.0	33.54	7.9	25.0	2.18
I11	09 Feb 2021	13	14.12	68.17	6.9	33.54	7.9	25.0	1.98
I12	10 Feb 2021	1	14.68	84.01	8.3	33.51	8.2	24.9	0.91
I12	10 Feb 2021	2	14.68	84.18	8.3	33.51	8.2	24.9	0.94
I12	10 Feb 2021	3	14.68	84.18	8.4	33.51	8.2	24.9	1.02
I12	10 Feb 2021	4	14.67	84.15	8.4	33.51	8.2	24.9	1.06
I12	10 Feb 2021	5	14.66	84.21	8.4	33.51	8.2	24.9	1.16
I12	10 Feb 2021	6	14.65	84.23	8.4	33.51	8.2	24.9	1.19
I12	10 Feb 2021	7	14.62	84.12	8.4	33.51	8.2	24.9	1.26
I12	10 Feb 2021	8	14.61	84.31	8.4	33.51	8.2	24.9	1.37
I12	10 Feb 2021	9	14.56	84.33	8.4	33.51	8.2	24.9	1.46
I12	10 Feb 2021	10	14.49	84.44	8.3	33.51	8.2	24.9	1.53
I12	10 Feb 2021	11	14.42	84.63	8.3	33.50	8.2	24.9	1.53
I12	10 Feb 2021	12	14.40	84.81	8.2	33.50	8.2	24.9	1.53
I12	10 Feb 2021	13	14.20	84.57	7.9	33.52	8.2	25.0	1.77
I12	10 Feb 2021	14	13.99	83.96	7.6	33.52	8.2	25.0	2.17
I12	10 Feb 2021	15	13.82	84.06	7.3	33.53	8.1	25.1	2.23
I12	10 Feb 2021	16	13.79	84.36	7.1	33.54	8.1	25.1	2.02
I12	10 Feb 2021	17	13.77	85.35	7.0	33.55	8.1	25.1	1.81
I12	10 Feb 2021	18	13.74	85.96	6.9	33.56	8.1	25.1	1.58
I12	10 Feb 2021	19	13.71	85.97	6.7	33.56	8.1	25.1	1.51
I12	10 Feb 2021	20	13.68	85.64	6.6	33.57	8.1	25.1	1.56
I12	10 Feb 2021	21	13.67	85.34	6.6	33.57	8.1	25.2	1.55
I12	10 Feb 2021	22	13.66	85.29	6.5	33.57	8.1	25.2	1.53

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I12	10 Feb 2021	23	13.65	85.42	6.5	33.57	8.1	25.2	1.46
I12	10 Feb 2021	24	13.65	85.48	6.5	33.58	8.1	25.2	1.46
I12	10 Feb 2021	25	13.64	85.39	6.5	33.58	8.1	25.2	1.42
I12	10 Feb 2021	26	13.64	85.42	6.5	33.58	8.1	25.2	1.39
I12	10 Feb 2021	27	13.64	85.27	6.5	33.58	8.1	25.2	1.39
I12	10 Feb 2021	28	13.64	85.40	6.5	33.58	8.1	25.2	1.45
I13	10 Feb 2021	1	14.72	84.36	8.5	33.49	8.2	24.9	0.58
I13	10 Feb 2021	2	14.64	84.35	8.5	33.49	8.2	24.9	0.59
I13	10 Feb 2021	3	14.55	84.13	8.6	33.49	8.2	24.9	0.61
I13	10 Feb 2021	4	14.52	83.93	8.6	33.49	8.2	24.9	0.64
I13	10 Feb 2021	5	14.50	83.88	8.6	33.49	8.2	24.9	0.66
I13	10 Feb 2021	6	14.50	83.87	8.6	33.48	8.2	24.9	0.71
I13	10 Feb 2021	7	14.49	83.88	8.6	33.49	8.2	24.9	0.77
I13	10 Feb 2021	8	14.49	83.87	8.6	33.49	8.2	24.9	0.82
I13	10 Feb 2021	9	14.48	83.97	8.7	33.49	8.2	24.9	0.88
I13	10 Feb 2021	10	14.48	83.93	8.7	33.49	8.2	24.9	0.95
I13	10 Feb 2021	11	14.48	83.78	8.7	33.49	8.2	24.9	1.02
I13	10 Feb 2021	12	14.47	83.76	8.7	33.49	8.2	24.9	1.14
I13	10 Feb 2021	13	14.46	83.71	8.6	33.49	8.2	24.9	1.24
I13	10 Feb 2021	14	14.40	83.93	8.5	33.49	8.2	24.9	1.43
I13	10 Feb 2021	15	14.31	83.78	8.3	33.49	8.2	25.0	1.76
I13	10 Feb 2021	16	14.14	83.29	8.0	33.51	8.2	25.0	2.28
I13	10 Feb 2021	17	14.08	82.64	7.7	33.52	8.2	25.0	2.61
I13	10 Feb 2021	18	14.05	83.99	7.5	33.54	8.2	25.0	2.36
I13	10 Feb 2021	19	13.86	85.44	7.1	33.57	8.1	25.1	1.70
I13	10 Feb 2021	20	13.67	86.07	6.8	33.58	8.1	25.2	1.38
I13	10 Feb 2021	21	13.43	86.52	6.5	33.59	8.1	25.2	1.23
I13	10 Feb 2021	22	13.35	86.44	6.3	33.59	8.1	25.2	1.13
I13	10 Feb 2021	23	13.33	86.49	6.3	33.60	8.1	25.2	1.09
I13	10 Feb 2021	24	13.29	86.50	6.2	33.60	8.1	25.3	1.05
I13	10 Feb 2021	25	13.23	86.48	6.2	33.61	8.0	25.3	1.07
I13	10 Feb 2021	26	13.21	86.53	6.1	33.61	8.0	25.3	1.05
I13	10 Feb 2021	27	13.16	86.64	6.0	33.62	8.0	25.3	0.99
I13	10 Feb 2021	28	13.09	86.62	6.0	33.62	8.0	25.3	0.96
I13	10 Feb 2021	29	13.06	86.59	5.9	33.63	8.0	25.3	0.93
I13	10 Feb 2021	30	13.02	86.32	5.8	33.63	8.0	25.3	0.94
I13	10 Feb 2021	31	13.00	86.56	5.8	33.63	8.0	25.3	0.93
I13	10 Feb 2021	32	12.95	86.59	5.8	33.63	8.0	25.3	0.90
I13	10 Feb 2021	33	12.91	86.34	5.7	33.63	8.0	25.4	0.92
I13	10 Feb 2021	34	12.86	86.16	5.5	33.64	8.0	25.4	0.88
I13	10 Feb 2021	35	12.76	86.00	5.4	33.65	8.0	25.4	0.83
I13	10 Feb 2021	36	12.65	85.77	5.2	33.66	8.0	25.4	0.79
I13	10 Feb 2021	37	12.52	85.61	5.1	33.67	8.0	25.5	0.75
I13	10 Feb 2021	38	12.48	85.71	5.1	33.67	7.9	25.5	0.76
I14	10 Feb 2021	1	14.79	84.02	8.4	33.51	8.2	24.9	0.66
I14	10 Feb 2021	2	14.74	84.09	8.4	33.51	8.2	24.9	0.68
I14	10 Feb 2021	3	14.67	84.11	8.4	33.51	8.2	24.9	0.70
I14	10 Feb 2021	4	14.65	83.96	8.4	33.51	8.2	24.9	0.78
I14	10 Feb 2021	5	14.64	84.08	8.4	33.51	8.2	24.9	0.82
I14	10 Feb 2021	6	14.62	84.25	8.4	33.51	8.2	24.9	0.88
I14	10 Feb 2021	7	14.56	84.20	8.3	33.51	8.2	24.9	0.96
I14	10 Feb 2021	8	14.47	84.50	8.3	33.50	8.2	24.9	0.98
I14	10 Feb 2021	9	14.36	84.76	8.1	33.50	8.2	25.0	1.10
I14	10 Feb 2021	10	14.23	84.26	8.0	33.49	8.2	25.0	1.43
I14	10 Feb 2021	11	14.21	83.76	7.9	33.50	8.2	25.0	1.69
I14	10 Feb 2021	12	14.10	83.27	7.8	33.50	8.2	25.0	2.08
I14	10 Feb 2021	13	14.06	83.44	7.6	33.50	8.2	25.0	2.15
I14	10 Feb 2021	14	13.89	84.12	7.2	33.47	8.1	25.0	1.89
I14	10 Feb 2021	15	13.85	84.07	7.1	33.46	8.1	25.0	1.81

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I14	10 Feb 2021	16	13.88	84.66	7.2	33.47	8.1	25.0	1.71
I14	10 Feb 2021	17	14.01	85.13	7.3	33.53	8.1	25.0	1.81
I14	10 Feb 2021	18	13.97	85.54	7.2	33.55	8.1	25.1	1.71
I14	10 Feb 2021	19	13.92	85.57	7.0	33.56	8.1	25.1	1.78
I14	10 Feb 2021	20	13.77	84.78	6.7	33.57	8.1	25.1	1.93
I14	10 Feb 2021	21	13.75	83.69	6.6	33.57	8.1	25.1	1.92
I14	10 Feb 2021	22	13.74	83.49	6.6	33.57	8.1	25.1	1.92
I14	10 Feb 2021	23	13.74	83.21	6.6	33.57	8.1	25.1	1.89
I14	10 Feb 2021	24	13.73	83.35	6.5	33.57	8.1	25.1	1.81
I14	10 Feb 2021	25	13.72	83.49	6.6	33.57	8.1	25.1	1.81
I14	10 Feb 2021	26	13.71	83.50	6.5	33.57	8.1	25.1	1.80
I14	10 Feb 2021	27	13.70	83.65	6.5	33.57	8.1	25.1	1.71
I14	10 Feb 2021	28	13.70	83.88	6.5	33.57	8.1	25.1	1.70
I15	10 Feb 2021	1	14.77	84.53	8.3	33.51	8.2	24.9	0.76
I15	10 Feb 2021	2	14.69	84.52	8.3	33.52	8.2	24.9	0.74
I15	10 Feb 2021	3	14.62	84.62	8.3	33.51	8.2	24.9	0.76
I15	10 Feb 2021	4	14.54	84.56	8.3	33.52	8.2	24.9	0.82
I15	10 Feb 2021	5	14.42	84.76	8.2	33.51	8.2	24.9	0.87
I15	10 Feb 2021	6	14.19	85.00	7.9	33.53	8.2	25.0	0.92
I15	10 Feb 2021	7	14.05	84.79	7.6	33.52	8.2	25.0	1.17
I15	10 Feb 2021	8	14.01	83.91	7.5	33.52	8.2	25.0	1.47
I15	10 Feb 2021	9	13.95	83.32	7.4	33.52	8.1	25.1	1.84
I15	10 Feb 2021	10	13.92	83.54	7.3	33.52	8.1	25.1	2.02
I15	10 Feb 2021	11	13.85	83.86	7.3	33.53	8.1	25.1	2.07
I15	10 Feb 2021	12	13.80	84.03	7.2	33.53	8.1	25.1	2.04
I15	10 Feb 2021	13	13.77	84.58	7.1	33.54	8.1	25.1	2.15
I15	10 Feb 2021	14	13.72	84.81	7.0	33.55	8.1	25.1	1.99
I15	10 Feb 2021	15	13.70	85.18	6.8	33.55	8.1	25.1	1.82
I15	10 Feb 2021	16	13.65	85.18	6.6	33.54	8.1	25.1	1.66
I15	10 Feb 2021	17	13.63	85.57	6.5	33.55	8.1	25.1	1.47
I15	10 Feb 2021	18	13.62	85.66	6.5	33.56	8.1	25.1	1.44
I15	10 Feb 2021	19	13.61	85.72	6.4	33.56	8.1	25.2	1.52
I15	10 Feb 2021	20	13.61	85.62	6.4	33.57	8.1	25.2	1.44
I15	10 Feb 2021	21	13.61	85.56	6.4	33.58	8.1	25.2	1.41
I15	10 Feb 2021	22	13.60	85.47	6.4	33.58	8.1	25.2	1.42
I15	10 Feb 2021	23	13.60	85.41	6.4	33.58	8.1	25.2	1.41
I15	10 Feb 2021	24	13.60	85.49	6.4	33.58	8.1	25.2	1.45
I15	10 Feb 2021	25	13.59	85.34	6.4	33.58	8.1	25.2	1.41
I15	10 Feb 2021	26	13.59	85.15	6.4	33.58	8.1	25.2	1.40
I15	10 Feb 2021	27	13.59	85.07	6.3	33.58	8.1	25.2	1.40
I15	10 Feb 2021	28	13.58	85.11	6.3	33.58	8.1	25.2	1.44
I15	10 Feb 2021	29	13.58	85.18	6.3	33.58	8.1	25.2	1.43
I15	10 Feb 2021	30	13.57	85.02	6.3	33.58	8.1	25.2	1.46
I15	10 Feb 2021	31	13.58	84.83	6.3	33.58	8.1	25.2	1.45
I16	10 Feb 2021	1	14.80	84.35	8.3	33.51	8.2	24.9	0.76
I16	10 Feb 2021	2	14.76	84.31	8.3	33.52	8.2	24.9	0.78
I16	10 Feb 2021	3	14.73	84.43	8.4	33.52	8.2	24.9	0.83
I16	10 Feb 2021	4	14.67	84.18	8.4	33.52	8.2	24.9	0.90
I16	10 Feb 2021	5	14.66	84.12	8.4	33.51	8.2	24.9	1.00
I16	10 Feb 2021	6	14.66	84.07	8.4	33.51	8.2	24.9	1.10
I16	10 Feb 2021	7	14.65	84.06	8.4	33.51	8.2	24.9	1.20
I16	10 Feb 2021	8	14.64	84.21	8.4	33.51	8.2	24.9	1.29
I16	10 Feb 2021	9	14.63	84.19	8.4	33.51	8.2	24.9	1.40
I16	10 Feb 2021	10	14.61	84.16	8.4	33.51	8.2	24.9	1.58
I16	10 Feb 2021	11	14.49	84.41	8.1	33.52	8.2	24.9	1.55
I16	10 Feb 2021	12	14.20	84.24	7.7	33.48	8.2	25.0	1.49
I16	10 Feb 2021	13	14.10	84.63	7.4	33.47	8.2	25.0	1.53
I16	10 Feb 2021	14	14.00	84.74	7.2	33.48	8.1	25.0	1.57
I16	10 Feb 2021	15	13.85	84.99	7.1	33.49	8.1	25.1	1.60

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I16	10 Feb 2021	16	13.85	85.13	7.1	33.50	8.1	25.1	1.69
I16	10 Feb 2021	17	13.87	85.04	7.2	33.51	8.1	25.1	1.73
I16	10 Feb 2021	18	13.87	85.14	7.2	33.52	8.1	25.1	1.76
I16	10 Feb 2021	19	13.87	85.26	7.2	33.52	8.1	25.1	1.74
I16	10 Feb 2021	20	13.86	85.25	7.2	33.54	8.1	25.1	1.71
I16	10 Feb 2021	21	13.81	85.44	6.9	33.56	8.1	25.1	1.62
I16	10 Feb 2021	22	13.70	85.67	6.6	33.57	8.1	25.1	1.74
I16	10 Feb 2021	23	13.69	85.02	6.5	33.57	8.1	25.1	1.68
I16	10 Feb 2021	24	13.68	84.71	6.5	33.57	8.1	25.2	1.67
I16	10 Feb 2021	25	13.67	84.65	6.5	33.57	8.1	25.2	1.61
I16	10 Feb 2021	26	13.67	84.61	6.5	33.57	8.1	25.2	1.60
I16	10 Feb 2021	27	13.67	84.74	6.5	33.57	8.1	25.2	1.60
I16	10 Feb 2021	28	13.67	84.76	6.5	33.57	8.1	25.2	1.60
I17	10 Feb 2021	1	14.83	84.41	8.3	33.51	8.2	24.9	0.79
I17	10 Feb 2021	2	14.81	84.50	8.3	33.52	8.2	24.9	0.80
I17	10 Feb 2021	3	14.77	84.31	8.3	33.52	8.2	24.9	0.83
I17	10 Feb 2021	4	14.69	84.19	8.4	33.52	8.2	24.9	0.94
I17	10 Feb 2021	5	14.67	83.91	8.4	33.52	8.2	24.9	1.05
I17	10 Feb 2021	6	14.66	84.08	8.4	33.51	8.2	24.9	1.14
I17	10 Feb 2021	7	14.61	84.01	8.4	33.52	8.2	24.9	1.30
I17	10 Feb 2021	8	14.54	84.12	8.3	33.52	8.2	24.9	1.47
I17	10 Feb 2021	9	14.47	84.23	8.2	33.51	8.2	24.9	1.65
I17	10 Feb 2021	10	14.45	84.21	8.1	33.51	8.2	24.9	1.74
I17	10 Feb 2021	11	14.42	84.26	8.1	33.51	8.2	24.9	1.75
I17	10 Feb 2021	12	14.37	84.31	8.0	33.51	8.2	25.0	1.76
I17	10 Feb 2021	13	14.29	84.48	8.0	33.51	8.2	25.0	1.70
I17	10 Feb 2021	14	14.15	84.74	7.8	33.52	8.2	25.0	1.75
I17	10 Feb 2021	15	14.03	84.68	7.5	33.52	8.2	25.0	1.94
I17	10 Feb 2021	16	13.99	84.93	7.3	33.54	8.1	25.1	1.82
I17	10 Feb 2021	17	13.83	85.56	6.9	33.57	8.1	25.1	1.78
I17	10 Feb 2021	18	13.76	85.26	6.7	33.57	8.1	25.1	1.75
I17	10 Feb 2021	19	13.74	84.38	6.6	33.57	8.1	25.1	1.77
I17	10 Feb 2021	20	13.74	84.11	6.6	33.57	8.1	25.1	1.81
I17	10 Feb 2021	21	13.74	83.88	6.6	33.57	8.1	25.1	1.83
I17	10 Feb 2021	22	13.73	83.93	6.6	33.57	8.1	25.1	1.87
I17	10 Feb 2021	23	13.73	83.87	6.6	33.57	8.1	25.1	1.80
I17	10 Feb 2021	24	13.73	83.88	6.6	33.57	8.1	25.1	1.79
I17	10 Feb 2021	25	13.73	83.77	6.6	33.57	8.1	25.1	1.85
I18	10 Feb 2021	1	14.73	84.24	8.6	33.51	8.2	24.9	0.96
I18	10 Feb 2021	2	14.72	84.20	8.6	33.51	8.2	24.9	0.97
I18	10 Feb 2021	3	14.68	83.91	8.6	33.51	8.2	24.9	1.09
I18	10 Feb 2021	4	14.68	83.91	8.6	33.51	8.2	24.9	1.14
I18	10 Feb 2021	5	14.67	83.91	8.6	33.51	8.2	24.9	1.23
I18	10 Feb 2021	6	14.66	83.80	8.6	33.51	8.2	24.9	1.39
I18	10 Feb 2021	7	14.65	83.66	8.7	33.51	8.2	24.9	1.57
I18	10 Feb 2021	8	14.64	83.69	8.7	33.51	8.2	24.9	1.65
I18	10 Feb 2021	9	14.63	83.73	8.7	33.51	8.2	24.9	1.63
I18	10 Feb 2021	10	14.62	83.79	8.7	33.51	8.2	24.9	1.67
I18	10 Feb 2021	11	14.61	83.93	8.7	33.51	8.2	24.9	1.64
I18	10 Feb 2021	12	14.60	83.97	8.8	33.51	8.2	24.9	1.60
I18	10 Feb 2021	13	14.58	83.93	8.8	33.51	8.2	24.9	1.81
I18	10 Feb 2021	14	14.46	83.74	8.4	33.52	8.2	24.9	2.16
I18	10 Feb 2021	15	14.15	83.28	7.7	33.53	8.2	25.0	2.91
I18	10 Feb 2021	16	13.99	82.46	7.2	33.55	8.1	25.1	3.44
I18	10 Feb 2021	17	13.96	81.79	7.0	33.56	8.1	25.1	2.84
I18	10 Feb 2021	18	13.96	80.25	6.9	33.56	8.1	25.1	2.39
I18	10 Feb 2021	19	13.95	79.02	6.8	33.56	8.1	25.1	2.35
I2	09 Feb 2021	1	14.47	83.38	8.4	33.48	8.0	24.9	1.31

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I2	09 Feb 2021	2	14.47	83.70	8.5	33.48	8.0	24.9	1.42
I2	09 Feb 2021	3	14.47	83.59	8.4	33.48	8.0	24.9	1.60
I2	09 Feb 2021	4	14.47	83.93	8.5	33.48	8.0	24.9	1.67
I2	09 Feb 2021	5	14.47	83.76	8.4	33.48	8.0	24.9	1.79
I2	09 Feb 2021	6	14.47	83.90	8.4	33.48	8.0	24.9	1.88
I2	09 Feb 2021	7	14.47	83.94	8.5	33.48	8.0	24.9	1.92
I2	09 Feb 2021	8	14.47	84.10	8.5	33.48	8.0	24.9	1.88
I2	09 Feb 2021	9	14.47	84.06	8.5	33.48	8.0	24.9	1.92
I2	09 Feb 2021	10	14.47	84.02	8.5	33.48	8.0	24.9	1.86
I2	09 Feb 2021	11	14.47	83.94	8.5	33.48	8.0	24.9	1.93
I2	09 Feb 2021	12	14.46	84.11	8.5	33.48	8.0	24.9	1.88
I2	09 Feb 2021	13	14.44	84.13	8.4	33.49	8.0	24.9	1.90
I2	09 Feb 2021	14	14.32	84.46	8.2	33.50	8.0	25.0	1.88
I2	09 Feb 2021	15	14.18	84.58	7.9	33.51	8.0	25.0	2.01
I2	09 Feb 2021	16	14.06	84.43	7.7	33.51	8.0	25.0	2.05
I2	09 Feb 2021	17	13.98	84.58	7.6	33.51	8.0	25.0	2.02
I2	09 Feb 2021	18	13.93	84.71	7.4	33.52	8.0	25.1	1.98
I2	09 Feb 2021	19	13.81	85.28	7.1	33.54	8.0	25.1	1.52
I2	09 Feb 2021	20	13.50	85.89	6.7	33.59	7.9	25.2	1.28
I2	09 Feb 2021	21	13.41	86.32	6.4	33.59	7.9	25.2	1.09
I2	09 Feb 2021	22	13.40	86.39	6.4	33.59	7.9	25.2	1.07
I2	09 Feb 2021	23	13.40	86.13	6.4	33.59	7.9	25.2	1.03
I2	09 Feb 2021	24	13.40	86.35	6.4	33.59	7.9	25.2	1.07
I2	09 Feb 2021	25	13.38	86.49	6.3	33.60	7.9	25.2	1.07
I2	09 Feb 2021	26	13.36	86.52	6.3	33.60	7.9	25.2	1.08
I2	09 Feb 2021	27	13.34	86.47	6.3	33.60	7.9	25.2	1.04
I2	09 Feb 2021	28	13.31	86.40	6.2	33.61	7.9	25.3	1.04
I2	09 Feb 2021	29	13.28	86.46	6.2	33.61	7.9	25.3	1.05
I2	09 Feb 2021	30	13.24	86.51	6.2	33.61	7.9	25.3	1.12
I2	09 Feb 2021	31	13.22	86.45	6.2	33.61	7.9	25.3	1.00
I2	09 Feb 2021	32	13.21	86.53	6.2	33.61	7.9	25.3	0.94
I20	10 Feb 2021	1	14.38	83.22	8.5	33.45	8.2	24.9	1.18
I20	10 Feb 2021	2	14.37	80.60	8.5	33.45	8.2	24.9	1.11
I20	10 Feb 2021	3	14.36	82.97	8.6	33.45	8.2	24.9	1.22
I20	10 Feb 2021	4	14.35	82.74	8.5	33.45	8.2	24.9	1.37
I20	10 Feb 2021	5	14.34	82.78	8.5	33.45	8.2	24.9	1.66
I20	10 Feb 2021	6	14.27	82.85	8.5	33.46	8.2	24.9	2.02
I20	10 Feb 2021	7	14.13	82.57	8.3	33.47	8.2	25.0	2.16
I20	10 Feb 2021	8	13.96	82.76	8.1	33.48	8.2	25.0	2.45
I20	10 Feb 2021	9	13.87	82.64	7.8	33.48	8.1	25.0	2.64
I20	10 Feb 2021	10	13.83	82.61	7.8	33.48	8.1	25.0	2.72
I20	10 Feb 2021	11	13.81	82.88	7.7	33.48	8.1	25.1	2.69
I20	10 Feb 2021	12	13.79	83.05	7.7	33.48	8.1	25.1	2.61
I20	10 Feb 2021	13	13.77	83.34	7.7	33.48	8.1	25.1	2.49
I20	10 Feb 2021	14	13.77	83.80	7.6	33.49	8.1	25.1	2.51
I20	10 Feb 2021	15	13.75	84.11	7.5	33.50	8.1	25.1	2.60
I20	10 Feb 2021	16	13.72	84.43	7.4	33.51	8.1	25.1	2.16
I20	10 Feb 2021	17	13.64	84.94	7.2	33.51	8.1	25.1	1.93
I20	10 Feb 2021	18	13.50	85.50	7.0	33.52	8.1	25.1	1.48
I20	10 Feb 2021	19	13.36	86.30	6.8	33.54	8.1	25.2	1.21
I20	10 Feb 2021	20	13.23	86.93	6.6	33.54	8.0	25.2	0.94
I20	10 Feb 2021	21	13.13	87.06	6.5	33.55	8.0	25.2	0.92
I20	10 Feb 2021	22	13.10	87.06	6.4	33.55	8.0	25.3	0.91
I20	10 Feb 2021	23	13.04	87.05	6.3	33.56	8.0	25.3	0.86
I20	10 Feb 2021	24	12.95	87.15	6.3	33.56	8.0	25.3	0.81
I20	10 Feb 2021	25	12.85	87.19	6.2	33.55	8.0	25.3	0.76
I20	10 Feb 2021	26	12.81	87.31	6.2	33.56	8.0	25.3	0.72
I20	10 Feb 2021	27	12.65	87.27	6.0	33.56	8.0	25.3	0.73
I20	10 Feb 2021	28	12.55	87.32	6.0	33.55	8.0	25.4	0.66
I20	10 Feb 2021	29	12.46	87.50	6.0	33.54	8.0	25.4	0.60

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I20	10 Feb 2021	30	12.45	87.58	6.0	33.53	8.0	25.4	0.59
I20	10 Feb 2021	31	12.32	87.69	5.9	33.53	8.0	25.4	0.56
I20	10 Feb 2021	32	12.38	87.73	5.7	33.58	8.0	25.4	0.56
I20	10 Feb 2021	33	12.33	87.34	5.3	33.64	7.9	25.5	0.60
I20	10 Feb 2021	34	12.21	87.01	5.3	33.63	7.9	25.5	0.57
I20	10 Feb 2021	35	12.22	87.05	5.2	33.66	7.9	25.5	0.56
I20	10 Feb 2021	36	12.18	86.87	5.1	33.66	7.9	25.5	0.57
I20	10 Feb 2021	37	12.15	86.86	5.1	33.67	7.9	25.5	0.54
I20	10 Feb 2021	38	12.15	86.95	5.1	33.67	7.9	25.5	0.55
I20	10 Feb 2021	39	12.14	86.86	5.0	33.68	7.9	25.5	0.54
I20	10 Feb 2021	40	12.02	86.75	4.8	33.71	7.9	25.6	0.53
I20	10 Feb 2021	41	11.91	86.81	4.8	33.72	7.9	25.6	0.49
I20	10 Feb 2021	42	11.84	86.99	4.7	33.73	7.9	25.6	0.45
I20	10 Feb 2021	43	11.82	87.01	4.7	33.73	7.9	25.6	0.44
I20	10 Feb 2021	44	11.81	86.99	4.6	33.73	7.9	25.6	0.43
I20	10 Feb 2021	45	11.82	87.05	4.6	33.73	7.9	25.6	0.44
I20	10 Feb 2021	46	11.82	86.97	4.6	33.74	7.9	25.6	0.43
I20	10 Feb 2021	47	11.82	86.98	4.6	33.74	7.9	25.6	0.43
I20	10 Feb 2021	48	11.82	86.91	4.6	33.74	7.9	25.6	0.44
I20	10 Feb 2021	49	11.82	86.88	4.6	33.74	7.9	25.6	0.43
I20	10 Feb 2021	50	11.82	86.48	4.6	33.74	7.9	25.6	0.42
I20	10 Feb 2021	51	11.81	86.82	4.6	33.74	7.9	25.6	0.43
I20	10 Feb 2021	52	11.71	86.80	4.5	33.76	7.9	25.7	0.41
I20	10 Feb 2021	53	11.67	86.81	4.4	33.77	7.9	25.7	0.39
I20	10 Feb 2021	54	11.62	86.84	4.4	33.78	7.8	25.7	0.38
I20	10 Feb 2021	55	11.59	86.74	4.3	33.78	7.8	25.7	0.37
I21	10 Feb 2021	1	14.53	85.08	8.3	33.50	8.2	24.9	0.73
I21	10 Feb 2021	2	14.52	85.12	8.3	33.50	8.2	24.9	0.73
I21	10 Feb 2021	3	14.51	84.95	8.3	33.50	8.2	24.9	0.73
I21	10 Feb 2021	4	14.51	84.56	8.3	33.50	8.2	24.9	0.78
I21	10 Feb 2021	5	14.50	84.87	8.4	33.50	8.2	24.9	0.86
I21	10 Feb 2021	6	14.50	84.87	8.3	33.50	8.2	24.9	0.97
I21	10 Feb 2021	7	14.50	84.84	8.4	33.50	8.2	24.9	1.01
I21	10 Feb 2021	8	14.50	84.86	8.4	33.50	8.2	24.9	1.08
I21	10 Feb 2021	9	14.50	84.88	8.4	33.50	8.2	24.9	1.11
I21	10 Feb 2021	10	14.49	84.80	8.4	33.50	8.2	24.9	1.21
I21	10 Feb 2021	11	14.50	84.85	8.4	33.50	8.2	24.9	1.31
I21	10 Feb 2021	12	14.49	84.96	8.4	33.50	8.2	24.9	1.46
I21	10 Feb 2021	13	14.42	84.90	8.2	33.51	8.2	24.9	1.53
I21	10 Feb 2021	14	14.31	85.10	7.8	33.53	8.2	25.0	1.60
I21	10 Feb 2021	15	14.12	85.53	7.4	33.55	8.1	25.0	1.44
I21	10 Feb 2021	16	13.84	86.35	6.9	33.58	8.1	25.1	1.16
I21	10 Feb 2021	17	13.64	86.91	6.7	33.60	8.1	25.2	1.01
I21	10 Feb 2021	18	13.45	86.84	6.5	33.60	8.1	25.2	0.98
I21	10 Feb 2021	19	13.37	86.95	6.3	33.61	8.1	25.2	0.99
I21	10 Feb 2021	20	13.26	86.94	6.2	33.62	8.0	25.3	0.92
I21	10 Feb 2021	21	13.19	87.02	6.1	33.62	8.0	25.3	0.87
I21	10 Feb 2021	22	13.07	86.98	6.0	33.62	8.0	25.3	0.86
I21	10 Feb 2021	23	12.98	86.95	5.9	33.61	8.0	25.3	0.82
I21	10 Feb 2021	24	12.92	86.76	5.8	33.61	8.0	25.3	0.81
I21	10 Feb 2021	25	12.86	86.90	5.8	33.61	8.0	25.3	0.84
I21	10 Feb 2021	26	12.83	86.86	5.8	33.61	8.0	25.3	0.84
I21	10 Feb 2021	27	12.81	86.67	5.8	33.61	8.0	25.4	0.86
I21	10 Feb 2021	28	12.80	86.81	5.7	33.61	8.0	25.4	0.84
I21	10 Feb 2021	29	12.81	86.72	5.6	33.62	8.0	25.4	0.82
I21	10 Feb 2021	30	12.79	86.71	5.5	33.64	8.0	25.4	0.78
I21	10 Feb 2021	31	12.74	86.61	5.4	33.65	8.0	25.4	0.76
I21	10 Feb 2021	32	12.71	86.47	5.3	33.65	8.0	25.4	0.74
I21	10 Feb 2021	33	12.66	86.38	5.2	33.66	8.0	25.4	0.73
I21	10 Feb 2021	34	12.59	86.19	5.2	33.66	7.9	25.4	0.74

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I21	10 Feb 2021	35	12.52	86.05	5.1	33.67	7.9	25.5	0.71
I21	10 Feb 2021	36	12.49	85.87	5.0	33.67	7.9	25.5	0.71
I21	10 Feb 2021	37	12.29	85.68	4.9	33.70	7.9	25.5	0.66
I21	10 Feb 2021	38	12.23	85.91	4.8	33.70	7.9	25.5	0.63
I21	10 Feb 2021	39	12.22	85.88	4.8	33.70	7.9	25.5	0.63
I21	10 Feb 2021	40	12.21	85.89	4.8	33.70	7.9	25.5	0.59
I21	10 Feb 2021	41	12.20	85.74	4.8	33.70	7.9	25.5	0.59
I22	10 Feb 2021	1	14.71	83.99	8.5	33.51	8.2	24.9	0.80
I22	10 Feb 2021	2	14.71	83.84	8.5	33.51	8.2	24.9	0.80
I22	10 Feb 2021	3	14.68	83.77	8.5	33.51	8.2	24.9	0.85
I22	10 Feb 2021	4	14.64	83.47	8.5	33.51	8.2	24.9	0.95
I22	10 Feb 2021	5	14.64	83.51	8.5	33.51	8.2	24.9	1.02
I22	10 Feb 2021	6	14.63	83.54	8.5	33.51	8.2	24.9	1.16
I22	10 Feb 2021	7	14.62	83.57	8.6	33.51	8.2	24.9	1.26
I22	10 Feb 2021	8	14.61	83.49	8.6	33.51	8.2	24.9	1.43
I22	10 Feb 2021	9	14.61	83.65	8.6	33.51	8.2	24.9	1.55
I22	10 Feb 2021	10	14.61	83.61	8.6	33.51	8.2	24.9	1.69
I22	10 Feb 2021	11	14.61	83.56	8.6	33.51	8.2	24.9	1.84
I22	10 Feb 2021	12	14.61	83.36	8.6	33.51	8.2	24.9	1.91
I22	10 Feb 2021	13	14.60	83.45	8.6	33.51	8.2	24.9	2.05
I22	10 Feb 2021	14	14.57	83.40	8.4	33.51	8.2	24.9	2.15
I22	10 Feb 2021	15	14.33	83.42	8.0	33.48	8.2	24.9	2.19
I22	10 Feb 2021	16	14.25	83.91	7.8	33.47	8.2	25.0	2.25
I22	10 Feb 2021	17	14.24	84.24	7.7	33.52	8.2	25.0	2.19
I22	10 Feb 2021	18	14.15	84.79	7.5	33.52	8.1	25.0	1.96
I22	10 Feb 2021	19	13.98	85.31	7.3	33.50	8.1	25.0	1.76
I22	10 Feb 2021	20	13.97	85.16	7.3	33.52	8.1	25.0	1.85
I22	10 Feb 2021	21	13.92	85.29	7.1	33.55	8.1	25.1	1.79
I22	10 Feb 2021	22	13.79	85.35	6.8	33.57	8.1	25.1	1.84
I22	10 Feb 2021	23	13.71	84.48	6.5	33.57	8.1	25.1	1.73
I22	10 Feb 2021	24	13.70	83.13	6.5	33.57	8.1	25.1	1.84
I22	10 Feb 2021	25	13.69	82.57	6.4	33.57	8.1	25.1	1.78
I22	10 Feb 2021	26	13.68	82.63	6.4	33.57	8.1	25.1	1.79
I22	10 Feb 2021	27	13.68	82.61	6.4	33.57	8.1	25.1	1.73
I22	10 Feb 2021	28	13.68	82.58	6.4	33.57	8.1	25.1	1.73
I23	10 Feb 2021	1	14.55	76.27	8.6	33.40	8.2	24.8	2.00
I23	10 Feb 2021	2	14.55	76.26	8.6	33.41	8.2	24.8	2.02
I23	10 Feb 2021	3	14.56	77.81	8.7	33.50	8.2	24.9	2.37
I23	10 Feb 2021	4	14.56	79.39	8.7	33.52	8.2	24.9	2.75
I23	10 Feb 2021	5	14.55	79.99	8.7	33.52	8.2	24.9	3.11
I23	10 Feb 2021	6	14.54	80.17	8.7	33.52	8.2	24.9	3.47
I23	10 Feb 2021	7	14.53	80.16	8.7	33.52	8.2	24.9	3.60
I23	10 Feb 2021	8	14.52	80.37	8.7	33.52	8.2	24.9	3.63
I23	10 Feb 2021	9	14.52	80.93	8.6	33.52	8.2	24.9	3.44
I23	10 Feb 2021	10	14.50	81.56	8.5	33.52	8.2	24.9	3.13
I23	10 Feb 2021	11	14.43	82.25	8.2	33.53	8.2	25.0	3.04
I23	10 Feb 2021	12	14.19	82.78	7.8	33.55	8.2	25.0	3.13
I23	10 Feb 2021	13	14.11	82.59	7.5	33.55	8.1	25.0	3.61
I23	10 Feb 2021	14	14.07	81.99	7.4	33.55	8.1	25.1	3.78
I23	10 Feb 2021	15	14.00	82.04	7.2	33.56	8.1	25.1	3.50
I23	10 Feb 2021	16	13.92	82.32	7.0	33.56	8.1	25.1	3.06
I23	10 Feb 2021	17	13.90	79.81	6.7	33.56	8.1	25.1	2.45
I23	10 Feb 2021	18	13.90	76.54	6.5	33.56	8.1	25.1	2.22
I23	10 Feb 2021	19	13.90	75.83	6.5	33.56	8.1	25.1	2.22
I23	10 Feb 2021	20	13.90	75.25	6.5	33.56	8.1	25.1	2.12
I23	10 Feb 2021	21	13.89	74.52	6.4	33.56	8.1	25.1	2.04
I27	10 Feb 2021	1	14.58	82.33	8.4	33.52	8.2	24.9	1.34
I27	10 Feb 2021	2	14.55	82.06	8.5	33.52	8.2	24.9	1.41

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I27	10 Feb 2021	3	14.52	81.62	8.4	33.52	8.2	24.9	1.59
I27	10 Feb 2021	4	14.51	81.39	8.5	33.52	8.2	24.9	1.86
I27	10 Feb 2021	5	14.50	81.21	8.5	33.52	8.2	24.9	2.26
I27	10 Feb 2021	6	14.49	81.25	8.5	33.52	8.2	24.9	2.63
I27	10 Feb 2021	7	14.49	81.41	8.5	33.52	8.2	24.9	2.81
I27	10 Feb 2021	8	14.48	81.41	8.5	33.52	8.2	24.9	3.10
I27	10 Feb 2021	9	14.48	81.46	8.4	33.52	8.2	24.9	3.27
I27	10 Feb 2021	10	14.48	81.61	8.4	33.52	8.2	24.9	3.30
I27	10 Feb 2021	11	14.47	81.48	8.5	33.52	8.2	24.9	3.40
I27	10 Feb 2021	12	14.47	81.67	8.4	33.52	8.2	24.9	3.51
I27	10 Feb 2021	13	14.47	81.85	8.4	33.52	8.2	24.9	3.46
I27	10 Feb 2021	14	14.43	82.20	8.3	33.52	8.2	25.0	3.29
I27	10 Feb 2021	15	14.34	82.65	8.1	33.52	8.2	25.0	3.09
I27	10 Feb 2021	16	14.25	83.22	7.8	33.51	8.2	25.0	2.92
I27	10 Feb 2021	17	14.17	83.44	7.7	33.49	8.1	25.0	2.86
I27	10 Feb 2021	18	14.15	83.33	7.6	33.51	8.1	25.0	2.80
I27	10 Feb 2021	19	14.08	83.68	7.5	33.54	8.1	25.0	2.66
I27	10 Feb 2021	20	14.00	84.15	7.4	33.55	8.1	25.1	2.48
I27	10 Feb 2021	21	13.94	85.14	7.2	33.55	8.1	25.1	2.12
I27	10 Feb 2021	22	13.90	85.68	7.1	33.56	8.1	25.1	2.06
I27	10 Feb 2021	23	13.77	85.02	6.8	33.57	8.1	25.1	1.87
I27	10 Feb 2021	24	13.73	84.34	6.7	33.57	8.1	25.1	1.71
I27	10 Feb 2021	25	13.71	83.59	6.6	33.57	8.1	25.1	1.64
I27	10 Feb 2021	26	13.71	83.31	6.6	33.57	8.1	25.1	1.63
I27	10 Feb 2021	27	13.68	83.05	6.6	33.57	8.1	25.1	1.64
I27	10 Feb 2021	28	13.67	83.05	6.5	33.57	8.1	25.1	1.64
I28	11 Feb 2021	1	14.39	84.76	8.0	33.48	8.1	24.9	0.80
I28	11 Feb 2021	2	14.38	84.89	8.0	33.48	8.1	24.9	0.82
I28	11 Feb 2021	3	14.37	84.71	8.0	33.48	8.1	24.9	0.91
I28	11 Feb 2021	4	14.36	84.61	8.0	33.48	8.1	24.9	1.02
I28	11 Feb 2021	5	14.35	84.64	8.0	33.48	8.1	24.9	1.12
I28	11 Feb 2021	6	14.35	84.46	8.1	33.48	8.1	24.9	1.19
I28	11 Feb 2021	7	14.35	84.55	8.1	33.48	8.1	24.9	1.30
I28	11 Feb 2021	8	14.35	84.47	8.1	33.48	8.1	24.9	1.45
I28	11 Feb 2021	9	14.36	84.48	8.1	33.49	8.1	24.9	1.64
I28	11 Feb 2021	10	14.37	84.44	8.1	33.49	8.1	24.9	1.81
I28	11 Feb 2021	11	14.37	84.14	8.2	33.50	8.1	25.0	1.92
I28	11 Feb 2021	12	14.36	84.12	8.2	33.50	8.1	25.0	2.10
I28	11 Feb 2021	13	14.35	83.98	8.2	33.51	8.1	25.0	2.23
I28	11 Feb 2021	14	14.34	83.89	8.1	33.51	8.1	25.0	2.35
I28	11 Feb 2021	15	14.32	83.75	8.0	33.51	8.1	25.0	2.56
I28	11 Feb 2021	16	14.30	83.48	8.0	33.52	8.1	25.0	2.68
I28	11 Feb 2021	17	14.28	83.30	8.0	33.52	8.1	25.0	2.78
I28	11 Feb 2021	18	14.26	83.07	8.0	33.52	8.1	25.0	2.90
I28	11 Feb 2021	19	14.21	83.15	7.8	33.53	8.1	25.0	2.69
I28	11 Feb 2021	20	13.96	83.01	7.2	33.57	8.1	25.1	2.00
I28	11 Feb 2021	21	13.52	84.61	6.6	33.59	8.1	25.2	1.54
I28	11 Feb 2021	22	13.48	86.10	6.5	33.58	8.0	25.2	1.31
I28	11 Feb 2021	23	13.46	86.53	6.5	33.58	8.0	25.2	1.17
I28	11 Feb 2021	24	13.39	86.69	6.4	33.58	8.0	25.2	1.14
I28	11 Feb 2021	25	13.31	86.83	6.4	33.58	8.0	25.2	1.08
I28	11 Feb 2021	26	13.26	86.90	6.2	33.60	8.0	25.3	1.04
I28	11 Feb 2021	27	13.11	86.96	6.0	33.62	8.0	25.3	0.99
I28	11 Feb 2021	28	13.02	86.90	5.9	33.63	8.0	25.3	0.98
I28	11 Feb 2021	29	12.93	86.93	5.7	33.64	8.0	25.4	0.90
I28	11 Feb 2021	30	12.72	86.98	5.5	33.65	8.0	25.4	0.89
I28	11 Feb 2021	31	12.59	86.87	5.4	33.64	7.9	25.4	0.86
I28	11 Feb 2021	32	12.52	86.78	5.4	33.64	7.9	25.4	0.81
I28	11 Feb 2021	33	12.45	86.81	5.4	33.64	7.9	25.4	0.78
I28	11 Feb 2021	34	12.41	86.76	5.3	33.64	7.9	25.5	0.77

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I28	11 Feb 2021	35	12.37	86.86	5.3	33.64	7.9	25.5	0.73
I28	11 Feb 2021	36	12.31	86.88	5.3	33.65	7.9	25.5	0.70
I28	11 Feb 2021	37	12.27	86.83	5.2	33.65	7.9	25.5	0.69
I28	11 Feb 2021	38	12.19	86.92	5.1	33.67	7.9	25.5	0.65
I28	11 Feb 2021	39	12.08	86.87	4.9	33.70	7.9	25.6	0.61
I28	11 Feb 2021	40	11.96	86.59	4.8	33.72	7.9	25.6	0.54
I28	11 Feb 2021	41	11.92	86.43	4.7	33.73	7.9	25.6	0.52
I28	11 Feb 2021	42	11.87	86.27	4.6	33.74	7.9	25.6	0.51
I28	11 Feb 2021	43	11.79	86.22	4.5	33.75	7.8	25.7	0.45
I28	11 Feb 2021	44	11.70	86.13	4.5	33.77	7.8	25.7	0.44
I28	11 Feb 2021	45	11.66	86.30	4.4	33.77	7.8	25.7	0.40
I28	11 Feb 2021	46	11.56	86.27	4.3	33.79	7.8	25.7	0.41
I28	11 Feb 2021	47	11.49	86.32	4.3	33.80	7.8	25.8	0.38
I28	11 Feb 2021	48	11.48	86.53	4.2	33.80	7.8	25.8	0.35
I28	11 Feb 2021	49	11.43	86.55	4.2	33.81	7.8	25.8	0.35
I28	11 Feb 2021	50	11.33	86.60	4.1	33.83	7.8	25.8	0.33
I28	11 Feb 2021	51	11.29	86.54	4.1	33.84	7.8	25.8	0.32
I28	11 Feb 2021	52	11.28	86.27	4.0	33.84	7.8	25.8	0.31
I28	11 Feb 2021	53	11.28	86.19	4.0	33.84	7.8	25.8	0.31
I28	11 Feb 2021	54	11.27	86.08	4.0	33.84	7.8	25.8	0.33
I28	11 Feb 2021	55	11.28	86.21	4.1	33.84	7.8	25.8	0.33
I29	11 Feb 2021	1	14.59	83.37	8.2	33.51	8.2	24.9	0.85
I29	11 Feb 2021	2	14.58	83.19	8.2	33.51	8.2	24.9	0.87
I29	11 Feb 2021	3	14.55	83.22	8.2	33.51	8.2	24.9	0.94
I29	11 Feb 2021	4	14.51	83.13	8.2	33.51	8.2	24.9	1.15
I29	11 Feb 2021	5	14.50	83.09	8.2	33.51	8.2	24.9	1.36
I29	11 Feb 2021	6	14.49	82.93	8.2	33.51	8.2	24.9	1.58
I29	11 Feb 2021	7	14.49	82.94	8.2	33.51	8.2	24.9	1.76
I29	11 Feb 2021	8	14.48	82.95	8.3	33.51	8.2	24.9	1.96
I29	11 Feb 2021	9	14.47	82.92	8.2	33.51	8.2	24.9	2.07
I29	11 Feb 2021	10	14.44	82.95	8.2	33.51	8.2	24.9	2.34
I29	11 Feb 2021	11	14.41	82.79	8.2	33.51	8.2	24.9	2.69
I29	11 Feb 2021	12	14.38	82.51	8.1	33.51	8.2	25.0	2.83
I29	11 Feb 2021	13	14.31	82.44	7.9	33.52	8.1	25.0	2.55
I29	11 Feb 2021	14	14.09	83.67	7.5	33.53	8.1	25.0	2.15
I29	11 Feb 2021	15	13.95	84.27	7.2	33.53	8.1	25.1	1.78
I29	11 Feb 2021	16	13.70	84.89	6.9	33.55	8.1	25.1	1.52
I29	11 Feb 2021	17	13.62	85.71	6.6	33.56	8.0	25.2	1.34
I29	11 Feb 2021	18	13.58	85.93	6.5	33.57	8.0	25.2	1.25
I29	11 Feb 2021	19	13.55	86.10	6.4	33.58	8.0	25.2	1.16
I29	11 Feb 2021	20	13.54	86.00	6.4	33.58	8.0	25.2	1.21
I29	11 Feb 2021	21	13.52	85.88	6.4	33.58	8.0	25.2	1.18
I29	11 Feb 2021	22	13.51	86.15	6.4	33.58	8.0	25.2	1.16
I29	11 Feb 2021	23	13.50	86.06	6.3	33.58	8.0	25.2	1.25
I29	11 Feb 2021	24	13.50	86.11	6.3	33.58	8.0	25.2	1.35
I29	11 Feb 2021	25	13.50	86.09	6.4	33.58	8.0	25.2	1.23
I29	11 Feb 2021	26	13.50	86.02	6.3	33.58	8.0	25.2	1.14
I29	11 Feb 2021	27	13.50	86.04	6.3	33.58	8.0	25.2	1.34
I29	11 Feb 2021	28	13.50	86.11	6.3	33.58	8.0	25.2	1.17
I29	11 Feb 2021	29	13.50	86.08	6.3	33.58	8.0	25.2	1.19
I29	11 Feb 2021	30	13.50	86.07	6.3	33.58	8.0	25.2	1.19
I29	11 Feb 2021	31	13.49	86.21	6.3	33.58	8.0	25.2	1.15
I29	11 Feb 2021	32	13.49	86.12	6.3	33.58	8.0	25.2	1.16
I29	11 Feb 2021	33	13.49	86.08	6.3	33.58	8.0	25.2	1.15
I29	11 Feb 2021	34	13.44	86.15	6.2	33.59	8.0	25.2	1.19
I29	11 Feb 2021	35	13.41	85.96	6.2	33.59	8.0	25.2	1.19
I29	11 Feb 2021	36	13.36	85.73	6.1	33.60	8.0	25.2	1.11
I29	11 Feb 2021	37	13.31	85.40	6.0	33.60	8.0	25.2	1.09
I29	11 Feb 2021	38	13.26	85.34	6.0	33.60	8.0	25.3	1.03

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I3	09 Feb 2021	1	14.70	83.57	8.3	33.51	8.0	24.9	1.24
I3	09 Feb 2021	2	14.70	83.79	8.3	33.51	8.0	24.9	1.26
I3	09 Feb 2021	3	14.70	83.87	8.3	33.51	8.1	24.9	1.43
I3	09 Feb 2021	4	14.70	83.76	8.3	33.51	8.1	24.9	1.56
I3	09 Feb 2021	5	14.69	83.82	8.3	33.51	8.1	24.9	1.67
I3	09 Feb 2021	6	14.69	83.69	8.4	33.51	8.1	24.9	1.80
I3	09 Feb 2021	7	14.69	83.89	8.3	33.51	8.0	24.9	1.91
I3	09 Feb 2021	8	14.68	84.06	8.3	33.51	8.0	24.9	1.95
I3	09 Feb 2021	9	14.68	83.95	8.4	33.51	8.0	24.9	2.01
I3	09 Feb 2021	10	14.66	83.95	8.4	33.51	8.0	24.9	2.20
I3	09 Feb 2021	11	14.64	83.48	8.3	33.51	8.0	24.9	2.61
I3	09 Feb 2021	12	14.62	83.36	8.2	33.52	8.0	24.9	2.57
I3	09 Feb 2021	13	14.58	83.57	8.2	33.52	8.0	24.9	2.34
I3	09 Feb 2021	14	14.54	84.13	8.1	33.52	8.0	24.9	2.26
I3	09 Feb 2021	15	14.39	84.28	7.9	33.52	8.0	25.0	2.27
I3	09 Feb 2021	16	14.23	84.33	7.7	33.52	8.0	25.0	2.25
I3	09 Feb 2021	17	14.17	84.98	7.5	33.53	8.0	25.0	1.88
I3	09 Feb 2021	18	14.01	85.60	7.3	33.54	8.0	25.1	1.53
I3	09 Feb 2021	19	13.75	86.20	6.9	33.57	7.9	25.1	1.40
I3	09 Feb 2021	20	13.63	86.31	6.7	33.57	7.9	25.2	1.36
I3	09 Feb 2021	21	13.60	86.08	6.5	33.58	7.9	25.2	1.45
I3	09 Feb 2021	22	13.59	85.39	6.5	33.58	7.9	25.2	1.53
I3	09 Feb 2021	23	13.58	85.29	6.5	33.58	7.9	25.2	1.42
I3	09 Feb 2021	24	13.58	85.09	6.5	33.58	7.9	25.2	1.55
I3	09 Feb 2021	25	13.58	85.29	6.5	33.58	7.9	25.2	1.52
I3	09 Feb 2021	26	13.58	85.24	6.5	33.58	7.9	25.2	1.46
I3	09 Feb 2021	27	13.58	85.11	6.5	33.58	7.9	25.2	1.44
I30	11 Feb 2021	1	14.58	73.67	8.8	33.46	8.2	24.9	1.82
I30	11 Feb 2021	2	14.56	76.60	8.8	33.52	8.2	24.9	1.93
I30	11 Feb 2021	3	14.50	76.96	8.8	33.52	8.2	24.9	2.52
I30	11 Feb 2021	4	14.49	76.74	8.8	33.52	8.2	24.9	2.99
I30	11 Feb 2021	5	14.46	76.77	8.8	33.52	8.2	24.9	3.70
I30	11 Feb 2021	6	14.46	76.85	8.8	33.52	8.2	24.9	4.11
I30	11 Feb 2021	7	14.45	77.16	8.7	33.52	8.2	25.0	4.34
I30	11 Feb 2021	8	14.45	77.71	8.7	33.52	8.2	25.0	4.52
I30	11 Feb 2021	9	14.44	78.32	8.7	33.52	8.2	25.0	4.66
I30	11 Feb 2021	10	14.44	78.20	8.7	33.52	8.2	25.0	4.74
I30	11 Feb 2021	11	14.44	78.21	8.7	33.52	8.2	25.0	4.74
I30	11 Feb 2021	12	14.44	77.92	8.7	33.52	8.2	25.0	4.65
I30	11 Feb 2021	13	14.42	78.01	8.6	33.53	8.2	25.0	4.42
I30	11 Feb 2021	14	14.34	78.99	8.3	33.53	8.2	25.0	3.96
I30	11 Feb 2021	15	14.25	80.42	8.0	33.54	8.2	25.0	3.31
I30	11 Feb 2021	16	14.22	81.20	7.8	33.54	8.1	25.0	3.06
I30	11 Feb 2021	17	13.84	83.30	7.2	33.56	8.1	25.1	2.30
I30	11 Feb 2021	18	13.75	84.67	6.8	33.55	8.1	25.1	1.75
I30	11 Feb 2021	19	13.71	85.41	6.6	33.56	8.0	25.1	1.57
I30	11 Feb 2021	20	13.72	84.64	6.5	33.56	8.0	25.1	1.52
I30	11 Feb 2021	21	13.70	84.25	6.5	33.57	8.0	25.1	1.56
I30	11 Feb 2021	22	13.69	84.27	6.5	33.57	8.0	25.1	1.56
I30	11 Feb 2021	23	13.69	84.32	6.5	33.57	8.0	25.1	1.52
I30	11 Feb 2021	24	13.68	84.52	6.5	33.57	8.0	25.1	1.46
I30	11 Feb 2021	25	13.68	84.18	6.5	33.57	8.0	25.1	1.43
I30	11 Feb 2021	26	13.66	84.27	6.4	33.57	8.0	25.2	1.40
I30	11 Feb 2021	27	13.62	84.29	6.4	33.58	8.0	25.2	1.36
I30	11 Feb 2021	28	13.59	84.27	6.3	33.58	8.0	25.2	1.39
I31	11 Feb 2021	1	14.74	74.72	8.8	33.52	8.2	24.9	2.09
I31	11 Feb 2021	2	14.65	74.50	8.9	33.53	8.2	24.9	2.82
I31	11 Feb 2021	3	14.56	70.83	8.9	33.52	8.2	24.9	6.00
I31	11 Feb 2021	4	14.54	69.01	8.9	33.52	8.2	24.9	8.75

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I31	11 Feb 2021	5	14.53	69.02	8.8	33.52	8.2	24.9	9.57
I31	11 Feb 2021	6	14.53	70.28	8.8	33.53	8.2	24.9	9.38
I31	11 Feb 2021	7	14.53	71.08	8.7	33.53	8.2	24.9	8.72
I31	11 Feb 2021	8	14.51	72.38	8.6	33.53	8.2	24.9	7.61
I31	11 Feb 2021	9	14.51	73.43	8.6	33.53	8.2	24.9	6.81
I31	11 Feb 2021	10	14.50	74.11	8.6	33.53	8.2	24.9	6.21
I31	11 Feb 2021	11	14.50	74.92	8.6	33.53	8.2	24.9	5.72
I31	11 Feb 2021	12	14.48	75.30	8.5	33.53	8.2	24.9	5.23
I31	11 Feb 2021	13	14.45	76.74	8.4	33.53	8.2	25.0	4.01
I31	11 Feb 2021	14	14.40	78.52	8.2	33.53	8.2	25.0	3.24
I31	11 Feb 2021	15	14.24	80.08	7.5	33.55	8.1	25.0	2.57
I31	11 Feb 2021	16	13.96	81.36	7.0	33.57	8.1	25.1	2.03
I31	11 Feb 2021	17	13.91	82.23	6.8	33.56	8.0	25.1	1.90
I31	11 Feb 2021	18	13.91	82.09	6.7	33.56	8.0	25.1	1.84
I31	11 Feb 2021	19	13.89	81.96	6.7	33.56	8.0	25.1	1.67
I33	11 Feb 2021	1	14.32	80.12	8.0	33.53	8.1	25.0	1.79
I33	11 Feb 2021	2	14.31	79.76	8.0	33.53	8.1	25.0	1.97
I33	11 Feb 2021	3	14.30	79.93	7.9	33.53	8.1	25.0	2.21
I33	11 Feb 2021	4	14.30	79.78	7.9	33.53	8.1	25.0	2.59
I33	11 Feb 2021	5	14.29	78.42	7.9	33.53	8.1	25.0	2.89
I33	11 Feb 2021	6	14.29	79.64	7.9	33.53	8.1	25.0	3.05
I33	11 Feb 2021	7	14.29	79.85	7.9	33.53	8.1	25.0	3.11
I33	11 Feb 2021	8	14.29	79.46	7.9	33.53	8.1	25.0	3.22
I33	11 Feb 2021	9	14.29	79.61	7.9	33.53	8.1	25.0	3.18
I33	11 Feb 2021	10	14.29	79.88	7.9	33.53	8.1	25.0	3.24
I33	11 Feb 2021	11	14.29	79.34	7.9	33.53	8.1	25.0	3.30
I33	11 Feb 2021	12	14.29	79.78	7.9	33.53	8.1	25.0	3.29
I33	11 Feb 2021	13	14.29	79.84	7.9	33.53	8.1	25.0	3.27
I33	11 Feb 2021	14	14.29	79.83	7.9	33.53	8.1	25.0	3.19
I33	11 Feb 2021	15	14.29	79.69	7.9	33.53	8.1	25.0	3.24
I33	11 Feb 2021	16	14.29	79.64	7.9	33.53	8.1	25.0	3.14
I33	11 Feb 2021	17	14.29	79.52	7.8	33.53	8.1	25.0	3.11
I33	11 Feb 2021	18	14.28	79.59	7.8	33.54	8.1	25.0	3.09
I33	11 Feb 2021	19	14.28	79.64	7.8	33.54	8.1	25.0	3.05
I33	11 Feb 2021	20	14.28	79.95	7.8	33.54	8.1	25.0	2.89
I33	11 Feb 2021	21	14.27	80.52	7.7	33.54	8.1	25.0	2.85
I33	11 Feb 2021	22	14.27	80.52	7.7	33.54	8.1	25.0	2.74
I33	11 Feb 2021	23	14.26	80.64	7.7	33.54	8.1	25.0	2.65
I33	11 Feb 2021	24	14.25	81.00	7.7	33.54	8.1	25.0	2.54
I33	11 Feb 2021	25	14.23	81.34	7.7	33.54	8.1	25.0	2.31
I33	11 Feb 2021	26	14.14	82.18	7.5	33.55	8.1	25.0	1.99
I33	11 Feb 2021	27	13.97	83.35	7.2	33.56	8.1	25.1	1.65
I33	11 Feb 2021	28	13.74	84.16	6.8	33.57	8.1	25.1	1.55
I33	11 Feb 2021	29	13.59	83.44	6.5	33.56	8.0	25.2	1.50
I33	11 Feb 2021	30	13.60	82.01	6.4	33.56	8.0	25.2	1.52
I34	11 Feb 2021	1	14.39	77.39	8.4	33.53	8.2	25.0	2.15
I34	11 Feb 2021	2	14.39	77.92	8.5	33.53	8.2	25.0	2.22
I34	11 Feb 2021	3	14.38	78.10	8.5	33.53	8.2	25.0	2.43
I34	11 Feb 2021	4	14.38	78.27	8.5	33.53	8.2	25.0	2.95
I34	11 Feb 2021	5	14.38	78.31	8.5	33.53	8.2	25.0	3.30
I34	11 Feb 2021	6	14.37	78.23	8.5	33.53	8.2	25.0	3.52
I34	11 Feb 2021	7	14.37	76.30	8.5	33.53	8.2	25.0	3.59
I34	11 Feb 2021	8	14.37	77.95	8.5	33.53	8.2	25.0	3.68
I34	11 Feb 2021	9	14.37	78.32	8.4	33.53	8.2	25.0	3.62
I34	11 Feb 2021	10	14.34	78.61	8.3	33.54	8.2	25.0	3.34
I34	11 Feb 2021	11	14.29	78.88	8.1	33.54	8.1	25.0	3.05
I34	11 Feb 2021	12	14.22	79.30	7.8	33.55	8.1	25.0	2.85
I34	11 Feb 2021	13	14.18	79.51	7.6	33.55	8.1	25.0	2.57
I34	11 Feb 2021	14	14.13	79.48	7.3	33.55	8.1	25.0	2.27

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I34	11 Feb 2021	15	13.85	79.41	6.7	33.57	8.1	25.1	1.91
I34	11 Feb 2021	16	13.78	78.50	6.4	33.56	8.0	25.1	1.73
I34	11 Feb 2021	17	13.73	78.01	6.3	33.56	8.0	25.1	1.63
I34	11 Feb 2021	18	13.71	77.26	6.3	33.56	8.0	25.1	1.62
I34	11 Feb 2021	19	13.70	76.59	6.3	33.56	8.0	25.1	1.63
I35	11 Feb 2021	1	14.70	77.81	9.0	33.54	8.2	24.9	1.40
I35	11 Feb 2021	2	14.57	76.46	9.0	33.52	8.2	24.9	1.74
I35	11 Feb 2021	3	14.51	74.50	9.1	33.52	8.2	24.9	2.38
I35	11 Feb 2021	4	14.46	73.01	9.1	33.52	8.2	24.9	3.49
I35	11 Feb 2021	5	14.42	72.73	9.1	33.51	8.2	24.9	4.90
I35	11 Feb 2021	6	14.40	73.34	9.0	33.52	8.2	25.0	5.90
I35	11 Feb 2021	7	14.38	74.40	9.0	33.52	8.2	25.0	6.30
I35	11 Feb 2021	8	14.37	75.30	8.9	33.52	8.2	25.0	6.15
I35	11 Feb 2021	9	14.37	75.72	8.9	33.52	8.2	25.0	5.95
I35	11 Feb 2021	10	14.36	76.25	8.8	33.52	8.2	25.0	5.08
I35	11 Feb 2021	11	14.30	77.79	8.6	33.52	8.2	25.0	4.29
I35	11 Feb 2021	12	14.26	79.00	8.4	33.52	8.2	25.0	3.85
I35	11 Feb 2021	13	14.23	79.78	8.2	33.52	8.2	25.0	3.57
I35	11 Feb 2021	14	14.14	79.51	7.9	33.53	8.1	25.0	3.08
I35	11 Feb 2021	15	14.05	81.13	7.5	33.54	8.1	25.0	2.64
I35	11 Feb 2021	16	13.90	80.41	6.9	33.56	8.1	25.1	2.30
I35	11 Feb 2021	17	13.77	78.88	6.5	33.56	8.0	25.1	2.32
I35	11 Feb 2021	18	13.74	75.88	6.3	33.56	8.0	25.1	2.60
I35	11 Feb 2021	19	13.72	73.46	6.2	33.56	8.0	25.1	2.37
I36	11 Feb 2021	1	14.86	65.17	9.6	33.52	8.2	24.9	6.15
I36	11 Feb 2021	2	14.71	62.03	9.6	33.52	8.3	24.9	11.33
I36	11 Feb 2021	3	14.61	58.36	9.2	33.51	8.2	24.9	13.66
I36	11 Feb 2021	4	14.60	62.11	8.9	33.51	8.2	24.9	11.86
I36	11 Feb 2021	5	14.59	67.30	8.8	33.51	8.2	24.9	9.25
I36	11 Feb 2021	6	14.59	69.56	8.8	33.51	8.2	24.9	7.56
I36	11 Feb 2021	7	14.58	69.28	8.8	33.51	8.2	24.9	6.60
I36	11 Feb 2021	8	14.56	71.62	8.7	33.51	8.2	24.9	5.22
I36	11 Feb 2021	9	14.50	73.85	8.5	33.52	8.2	24.9	4.21
I36	11 Feb 2021	10	14.44	74.82	8.1	33.52	8.2	25.0	3.50
I36	11 Feb 2021	11	14.38	72.69	7.7	33.52	8.1	25.0	3.10
I37	11 Feb 2021	1	14.49	76.59	8.3	33.55	8.1	25.0	2.54
I37	11 Feb 2021	2	14.49	76.51	8.4	33.55	8.1	25.0	2.82
I37	11 Feb 2021	3	14.49	76.27	8.3	33.55	8.1	25.0	3.20
I37	11 Feb 2021	4	14.48	76.17	8.3	33.55	8.1	25.0	3.77
I37	11 Feb 2021	5	14.47	76.25	8.3	33.55	8.1	25.0	4.13
I37	11 Feb 2021	6	14.47	76.23	8.2	33.55	8.1	25.0	4.22
I37	11 Feb 2021	7	14.44	76.02	8.1	33.55	8.1	25.0	4.19
I37	11 Feb 2021	8	14.43	76.00	8.0	33.55	8.1	25.0	4.12
I37	11 Feb 2021	9	14.40	75.61	8.0	33.55	8.1	25.0	3.89
I37	11 Feb 2021	10	14.32	75.42	7.9	33.55	8.1	25.0	3.62
I37	11 Feb 2021	11	14.21	75.70	7.7	33.54	8.1	25.0	2.96
I37	11 Feb 2021	12	14.04	77.31	7.4	33.55	8.1	25.1	2.43
I38	11 Feb 2021	1	14.88	75.46	9.1	33.53	8.2	24.9	1.49
I38	11 Feb 2021	2	14.68	74.83	9.1	33.53	8.2	24.9	1.64
I38	11 Feb 2021	3	14.63	73.66	9.2	33.52	8.2	24.9	2.21
I38	11 Feb 2021	4	14.59	71.31	9.2	33.51	8.2	24.9	3.53
I38	11 Feb 2021	5	14.58	71.33	9.2	33.51	8.2	24.9	4.56
I38	11 Feb 2021	6	14.56	72.03	9.2	33.51	8.2	24.9	5.20
I38	11 Feb 2021	7	14.55	73.17	9.1	33.51	8.2	24.9	5.16
I38	11 Feb 2021	8	14.54	74.56	9.0	33.51	8.2	24.9	4.89
I38	11 Feb 2021	9	14.52	75.40	8.8	33.52	8.2	24.9	4.21
I38	11 Feb 2021	10	14.44	76.81	8.4	33.53	8.2	25.0	3.56

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I38	11 Feb 2021	11	14.26	70.98	7.7	33.55	8.1	25.0	3.22
I4	09 Feb 2021	1	14.62	82.25	8.6	33.51	8.1	24.9	2.02
I4	09 Feb 2021	2	14.62	82.31	8.6	33.51	8.1	24.9	2.18
I4	09 Feb 2021	3	14.61	82.16	8.6	33.51	8.1	24.9	2.36
I4	09 Feb 2021	4	14.61	82.03	8.6	33.51	8.1	24.9	2.56
I4	09 Feb 2021	5	14.61	82.18	8.6	33.51	8.1	24.9	2.60
I4	09 Feb 2021	6	14.60	82.16	8.6	33.51	8.1	24.9	2.53
I4	09 Feb 2021	7	14.59	82.68	8.5	33.51	8.1	24.9	2.55
I4	09 Feb 2021	8	14.38	83.61	8.1	33.54	8.0	25.0	2.42
I4	09 Feb 2021	9	14.22	84.12	7.7	33.55	8.0	25.0	2.31
I4	09 Feb 2021	10	14.16	83.99	7.6	33.55	8.0	25.0	2.47
I4	09 Feb 2021	11	14.11	83.63	7.5	33.55	8.0	25.0	2.73
I4	09 Feb 2021	12	14.01	83.43	7.3	33.56	8.0	25.1	2.77
I4	09 Feb 2021	13	13.95	82.94	7.1	33.56	7.9	25.1	2.60
I4	09 Feb 2021	14	13.92	82.40	7.0	33.56	7.9	25.1	2.49
I4	09 Feb 2021	15	13.89	80.64	6.8	33.56	7.9	25.1	2.44
I4	09 Feb 2021	16	13.88	74.34	6.7	33.56	7.9	25.1	2.60
I4	09 Feb 2021	17	13.88	71.34	6.6	33.57	7.9	25.1	2.79
I4	09 Feb 2021	18	13.87	69.24	6.5	33.57	7.9	25.1	2.76
I5	09 Feb 2021	1	14.72	60.25	8.4	33.44	8.0	24.8	10.45
I5	09 Feb 2021	2	14.71	59.55	8.4	33.44	8.0	24.8	10.64
I5	09 Feb 2021	3	14.72	59.92	8.4	33.45	8.0	24.8	10.50
I5	09 Feb 2021	4	14.73	66.35	8.5	33.51	8.0	24.9	6.49
I5	09 Feb 2021	5	14.68	78.59	8.4	33.51	8.0	24.9	4.08
I5	09 Feb 2021	6	14.65	80.47	8.4	33.51	8.0	24.9	2.97
I5	09 Feb 2021	7	14.59	81.37	8.3	33.52	8.0	24.9	2.52
I5	09 Feb 2021	8	14.47	80.53	7.9	33.53	8.0	25.0	2.46
I5	09 Feb 2021	9	14.29	79.17	7.5	33.55	8.0	25.0	2.79
I5	09 Feb 2021	10	14.18	74.73	7.2	33.55	8.0	25.0	2.85
I5	09 Feb 2021	11	14.14	67.08	7.1	33.55	7.9	25.0	2.89
I5	09 Feb 2021	12	14.12	63.37	7.1	33.55	7.9	25.0	2.88
I5	09 Feb 2021	13	14.10	60.58	6.9	33.55	7.9	25.0	2.91
I5	09 Feb 2021	14	14.12	52.80	7.0	33.55	7.9	25.0	3.07
I6	09 Feb 2021	1	14.73	84.23	8.6	33.50	8.1	24.9	1.33
I6	09 Feb 2021	2	14.72	84.14	8.6	33.50	8.1	24.9	1.37
I6	09 Feb 2021	3	14.72	84.12	8.6	33.50	8.1	24.9	1.49
I6	09 Feb 2021	4	14.71	84.06	8.6	33.50	8.1	24.9	1.54
I6	09 Feb 2021	5	14.71	84.09	8.6	33.50	8.1	24.9	1.60
I6	09 Feb 2021	6	14.67	83.90	8.6	33.50	8.1	24.9	1.74
I6	09 Feb 2021	7	14.46	84.18	8.3	33.51	8.1	24.9	1.88
I6	09 Feb 2021	8	14.30	84.76	8.0	33.51	8.0	25.0	1.84
I6	09 Feb 2021	9	14.23	84.75	7.8	33.51	8.0	25.0	1.83
I6	09 Feb 2021	10	14.17	84.88	7.7	33.51	8.0	25.0	1.97
I6	09 Feb 2021	11	14.13	84.62	7.6	33.52	8.0	25.0	2.31
I6	09 Feb 2021	12	14.10	84.52	7.6	33.52	8.0	25.0	2.29
I6	09 Feb 2021	13	14.08	84.99	7.5	33.53	8.0	25.0	2.10
I6	09 Feb 2021	14	14.05	85.89	7.4	33.53	8.0	25.0	1.69
I6	09 Feb 2021	15	14.03	86.06	7.4	33.54	8.0	25.1	1.56
I6	09 Feb 2021	16	14.01	86.25	7.3	33.54	8.0	25.1	1.41
I6	09 Feb 2021	17	13.99	86.38	7.2	33.55	8.0	25.1	1.40
I6	09 Feb 2021	18	13.87	86.33	7.0	33.57	7.9	25.1	1.41
I6	09 Feb 2021	19	13.80	86.39	6.9	33.57	7.9	25.1	1.44
I6	09 Feb 2021	20	13.74	86.08	6.7	33.58	7.9	25.1	1.41
I6	09 Feb 2021	21	13.65	84.65	6.5	33.58	7.9	25.2	1.67
I6	09 Feb 2021	22	13.63	83.36	6.5	33.58	7.9	25.2	1.73
I6	09 Feb 2021	23	13.62	82.86	6.5	33.58	7.9	25.2	1.83
I6	09 Feb 2021	24	13.62	82.77	6.4	33.58	7.9	25.2	1.80
I6	09 Feb 2021	25	13.62	82.63	6.4	33.57	7.9	25.2	1.79

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I7	09 Feb 2021	1	14.45	82.79	8.6	33.51	8.0	24.9	1.81
I7	09 Feb 2021	2	14.44	81.95	8.7	33.50	8.0	24.9	1.89
I7	09 Feb 2021	3	14.44	83.23	8.6	33.50	8.0	24.9	1.94
I7	09 Feb 2021	4	14.44	83.38	8.6	33.50	8.0	24.9	2.05
I7	09 Feb 2021	5	14.44	83.32	8.7	33.50	8.0	24.9	2.05
I7	09 Feb 2021	6	14.45	83.37	8.7	33.50	8.0	24.9	1.99
I7	09 Feb 2021	7	14.45	83.33	8.7	33.50	8.0	24.9	2.05
I7	09 Feb 2021	8	14.45	83.09	8.7	33.51	8.0	24.9	2.06
I7	09 Feb 2021	9	14.45	83.11	8.7	33.51	8.0	24.9	2.07
I7	09 Feb 2021	10	14.45	83.31	8.7	33.51	8.0	24.9	2.09
I7	09 Feb 2021	11	14.44	83.33	8.7	33.51	8.0	24.9	2.10
I7	09 Feb 2021	12	14.44	83.18	8.7	33.51	8.0	24.9	2.29
I7	09 Feb 2021	13	14.42	82.79	8.6	33.51	8.0	24.9	2.68
I7	09 Feb 2021	14	14.37	81.91	8.4	33.52	8.0	25.0	3.08
I7	09 Feb 2021	15	14.25	81.84	8.2	33.52	8.0	25.0	3.39
I7	09 Feb 2021	16	14.17	81.78	8.0	33.52	8.0	25.0	3.18
I7	09 Feb 2021	17	14.03	82.45	7.8	33.53	8.0	25.0	2.89
I7	09 Feb 2021	18	13.90	83.26	7.5	33.54	7.9	25.1	2.54
I7	09 Feb 2021	19	13.77	84.47	7.3	33.55	7.9	25.1	1.91
I7	09 Feb 2021	20	13.66	85.80	7.0	33.55	7.9	25.1	1.45
I7	09 Feb 2021	21	13.52	85.93	6.7	33.57	7.9	25.2	1.25
I7	09 Feb 2021	22	13.35	86.46	6.4	33.58	7.9	25.2	1.12
I7	09 Feb 2021	23	13.32	86.50	6.3	33.59	7.8	25.2	1.04
I7	09 Feb 2021	24	13.29	86.61	6.2	33.59	7.8	25.2	0.97
I7	09 Feb 2021	25	13.22	86.64	6.1	33.59	7.8	25.3	0.98
I7	09 Feb 2021	26	13.20	86.56	6.1	33.59	7.8	25.3	0.94
I7	09 Feb 2021	27	13.16	86.33	5.9	33.60	7.8	25.3	0.92
I7	09 Feb 2021	28	13.03	86.43	5.8	33.62	7.8	25.3	0.88
I7	09 Feb 2021	29	12.96	86.45	5.7	33.62	7.8	25.3	0.84
I7	09 Feb 2021	30	12.92	86.33	5.6	33.63	7.8	25.3	0.80
I7	09 Feb 2021	31	12.79	86.17	5.4	33.64	7.8	25.4	0.78
I7	09 Feb 2021	32	12.66	85.75	5.3	33.65	7.8	25.4	0.76
I7	09 Feb 2021	33	12.58	85.82	5.2	33.66	7.8	25.4	0.72
I7	09 Feb 2021	34	12.43	85.86	5.1	33.68	7.8	25.5	0.67
I7	09 Feb 2021	35	12.34	85.96	5.0	33.68	7.7	25.5	0.62
I7	09 Feb 2021	36	12.32	85.99	5.0	33.68	7.7	25.5	0.62
I7	09 Feb 2021	37	12.31	85.94	5.0	33.69	7.7	25.5	0.59
I7	09 Feb 2021	38	12.28	85.87	5.0	33.69	7.7	25.5	0.58
I7	09 Feb 2021	39	12.22	86.02	5.0	33.70	7.7	25.5	0.59
I7	09 Feb 2021	40	12.06	86.28	5.0	33.70	7.7	25.6	0.53
I7	09 Feb 2021	41	11.95	87.12	4.9	33.71	7.7	25.6	0.48
I7	09 Feb 2021	42	11.85	87.00	4.7	33.73	7.7	25.6	0.43
I7	09 Feb 2021	43	11.82	86.73	4.6	33.75	7.7	25.7	0.42
I7	09 Feb 2021	44	11.80	86.62	4.5	33.76	7.7	25.7	0.41
I7	09 Feb 2021	45	11.79	86.66	4.5	33.76	7.7	25.7	0.41
I7	09 Feb 2021	46	11.77	86.62	4.5	33.76	7.7	25.7	0.40
I7	09 Feb 2021	47	11.75	86.63	4.5	33.76	7.7	25.7	0.38
I7	09 Feb 2021	48	11.75	86.41	4.5	33.76	7.7	25.7	0.38
I7	09 Feb 2021	49	11.75	86.67	4.5	33.76	7.7	25.7	0.37
I7	09 Feb 2021	50	11.75	86.69	4.5	33.76	7.7	25.7	0.38
I7	09 Feb 2021	51	11.75	86.68	4.5	33.76	7.7	25.7	0.38
I7	09 Feb 2021	52	11.76	86.62	4.5	33.76	7.7	25.7	0.38
I8	09 Feb 2021	1	14.60	83.02	8.4	33.51	8.1	24.9	1.64
I8	09 Feb 2021	2	14.60	83.12	8.5	33.51	8.1	24.9	1.63
I8	09 Feb 2021	3	14.59	83.21	8.5	33.51	8.1	24.9	1.69
I8	09 Feb 2021	4	14.59	83.18	8.5	33.51	8.1	24.9	1.79
I8	09 Feb 2021	5	14.58	83.15	8.5	33.51	8.1	24.9	1.94
I8	09 Feb 2021	6	14.57	83.28	8.5	33.51	8.1	24.9	2.02
I8	09 Feb 2021	7	14.54	83.25	8.3	33.51	8.1	24.9	2.06

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I8	09 Feb 2021	8	14.47	83.96	8.1	33.52	8.0	24.9	1.86
I8	09 Feb 2021	9	14.26	85.10	7.8	33.53	8.0	25.0	1.56
I8	09 Feb 2021	10	14.11	85.77	7.6	33.53	8.0	25.0	1.46
I8	09 Feb 2021	11	14.04	86.13	7.5	33.53	8.0	25.0	1.37
I8	09 Feb 2021	12	14.00	86.18	7.4	33.53	8.0	25.1	1.30
I8	09 Feb 2021	13	13.92	86.45	7.3	33.54	8.0	25.1	1.27
I8	09 Feb 2021	14	13.89	86.66	7.2	33.55	8.0	25.1	1.23
I8	09 Feb 2021	15	13.83	86.69	7.0	33.56	8.0	25.1	1.23
I8	09 Feb 2021	16	13.74	86.51	6.9	33.56	7.9	25.1	1.17
I8	09 Feb 2021	17	13.68	86.92	6.8	33.57	7.9	25.1	1.14
I8	09 Feb 2021	18	13.64	86.88	6.7	33.57	7.9	25.2	1.20
I8	09 Feb 2021	19	13.60	86.95	6.6	33.58	7.9	25.2	1.19
I8	09 Feb 2021	20	13.49	86.86	6.5	33.59	7.9	25.2	1.30
I8	09 Feb 2021	21	13.45	86.65	6.4	33.58	7.9	25.2	1.25
I8	09 Feb 2021	22	13.42	86.67	6.3	33.59	7.9	25.2	1.24
I8	09 Feb 2021	23	13.40	86.50	6.3	33.59	7.9	25.2	1.18
I8	09 Feb 2021	24	13.39	86.51	6.3	33.59	7.9	25.2	1.15
I8	09 Feb 2021	25	13.38	86.43	6.3	33.59	7.9	25.2	1.19
I8	09 Feb 2021	26	13.38	86.45	6.2	33.59	7.9	25.2	1.24
I8	09 Feb 2021	27	13.38	86.27	6.2	33.59	7.9	25.2	1.25
I8	09 Feb 2021	28	13.38	86.15	6.2	33.59	7.9	25.2	1.24
I8	09 Feb 2021	29	13.38	86.05	6.2	33.59	7.9	25.2	1.26
I8	09 Feb 2021	30	13.37	86.04	6.2	33.59	7.9	25.2	1.23
I8	09 Feb 2021	31	13.36	85.95	6.2	33.59	7.9	25.2	1.26
I8	09 Feb 2021	32	13.35	85.81	6.2	33.59	7.9	25.2	1.22
I8	09 Feb 2021	33	13.34	85.89	6.2	33.59	7.9	25.2	1.22
I8	09 Feb 2021	34	13.32	85.73	6.1	33.59	7.9	25.2	1.25
I8	09 Feb 2021	35	13.22	85.56	6.0	33.60	7.9	25.3	1.20
I8	09 Feb 2021	36	13.23	85.32	6.0	33.59	7.8	25.3	1.15
I9	09 Feb 2021	1	14.67	82.83	8.7	33.50	8.1	24.9	1.42
I9	09 Feb 2021	2	14.67	82.94	8.7	33.50	8.1	24.9	1.45
I9	09 Feb 2021	3	14.66	83.00	8.7	33.50	8.1	24.9	1.58
I9	09 Feb 2021	4	14.66	83.01	8.7	33.50	8.1	24.9	1.60
I9	09 Feb 2021	5	14.65	83.03	8.7	33.50	8.1	24.9	1.72
I9	09 Feb 2021	6	14.65	83.37	8.7	33.50	8.1	24.9	1.74
I9	09 Feb 2021	7	14.65	83.41	8.7	33.50	8.1	24.9	1.76
I9	09 Feb 2021	8	14.63	83.49	8.7	33.50	8.1	24.9	1.87
I9	09 Feb 2021	9	14.61	83.43	8.6	33.50	8.1	24.9	1.97
I9	09 Feb 2021	10	14.41	83.59	8.4	33.52	8.1	25.0	1.97
I9	09 Feb 2021	11	14.31	83.59	8.1	33.50	8.0	25.0	2.00
I9	09 Feb 2021	12	14.23	83.72	7.9	33.51	8.0	25.0	2.15
I9	09 Feb 2021	13	14.18	83.84	7.8	33.51	8.0	25.0	2.27
I9	09 Feb 2021	14	14.16	83.90	7.7	33.51	8.0	25.0	2.25
I9	09 Feb 2021	15	14.12	84.02	7.7	33.52	8.0	25.0	2.19
I9	09 Feb 2021	16	14.09	83.97	7.6	33.53	8.0	25.0	2.42
I9	09 Feb 2021	17	14.04	83.57	7.5	33.54	8.0	25.0	2.79
I9	09 Feb 2021	18	14.01	83.93	7.4	33.54	8.0	25.1	2.56
I9	09 Feb 2021	19	13.97	84.76	7.3	33.55	8.0	25.1	2.28
I9	09 Feb 2021	20	13.95	85.02	7.2	33.55	8.0	25.1	2.20
I9	09 Feb 2021	21	13.89	85.27	7.1	33.56	8.0	25.1	1.93
I9	09 Feb 2021	22	13.65	85.81	6.7	33.59	7.9	25.2	1.52
I9	09 Feb 2021	23	13.57	85.96	6.5	33.58	7.9	25.2	1.50
I9	09 Feb 2021	24	13.53	84.89	6.4	33.58	7.9	25.2	1.63
I9	09 Feb 2021	25	13.53	83.93	6.3	33.58	7.9	25.2	1.64
I9	09 Feb 2021	26	13.52	83.14	6.3	33.58	7.9	25.2	1.71
I9	09 Feb 2021	27	13.51	82.64	6.2	33.58	7.9	25.2	1.82
I9	09 Feb 2021	28	13.51	82.30	6.2	33.58	7.9	25.2	1.85
I9	09 Feb 2021	29	13.50	82.20	6.2	33.58	7.9	25.2	1.85

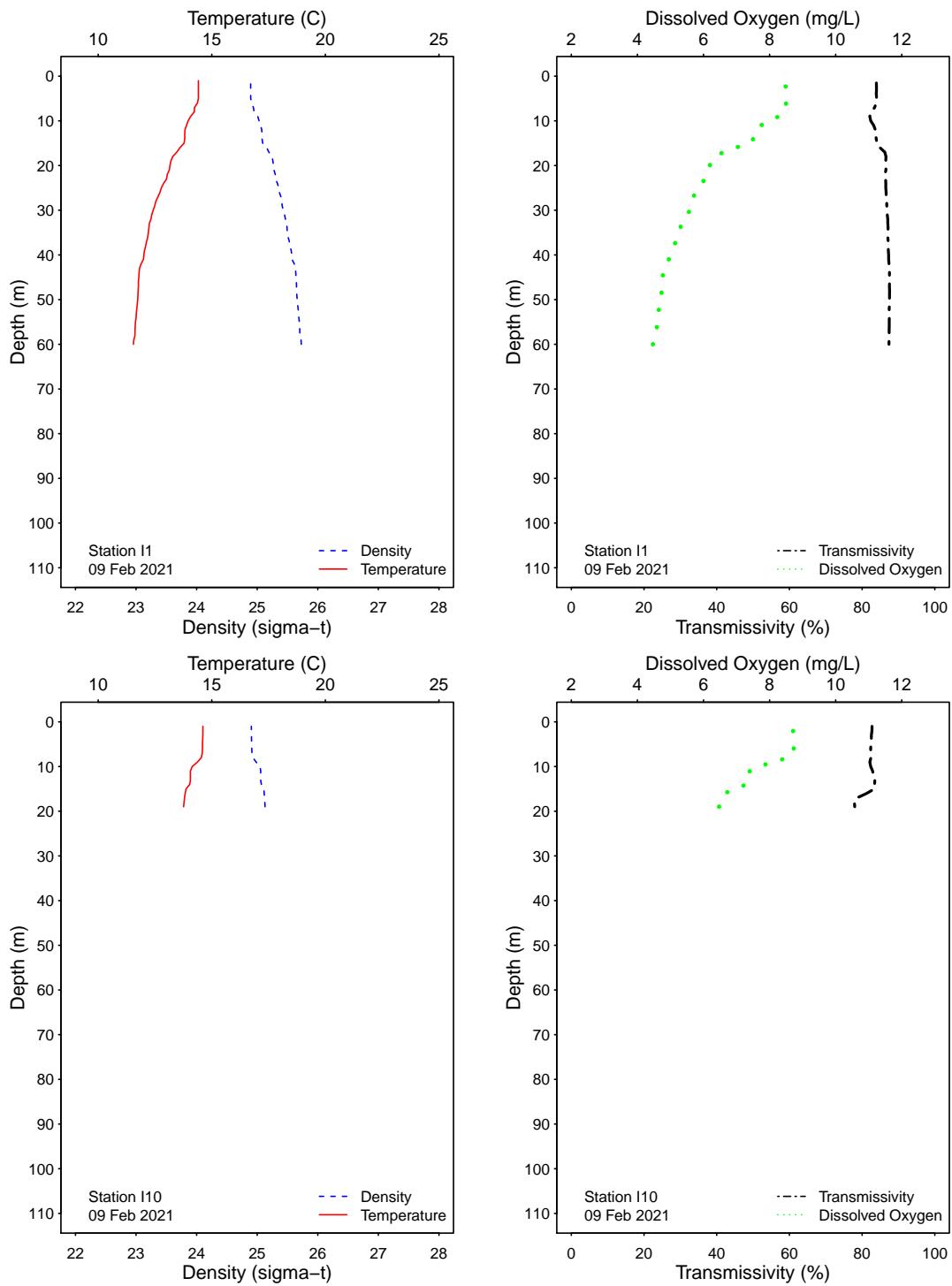


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

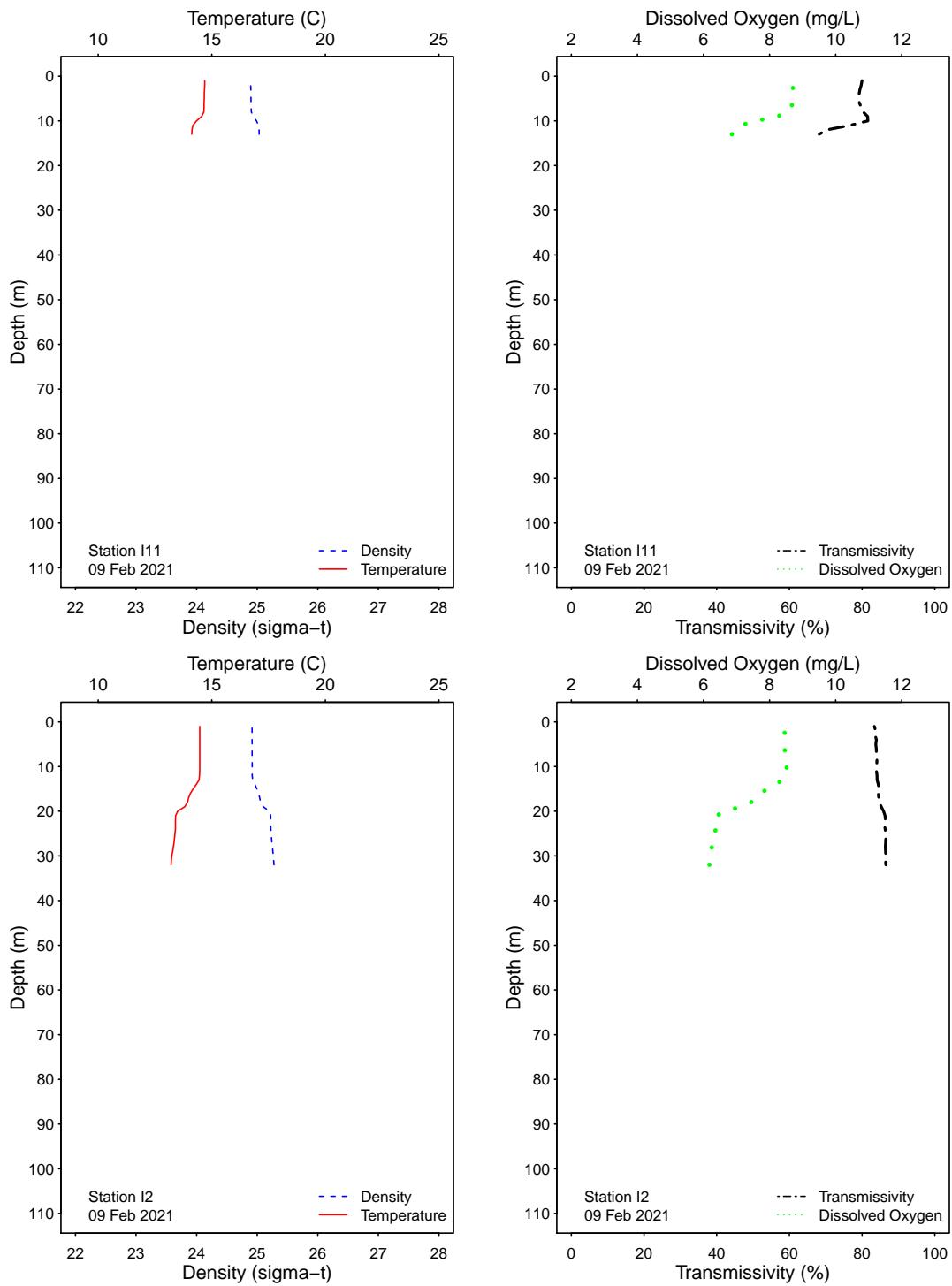


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

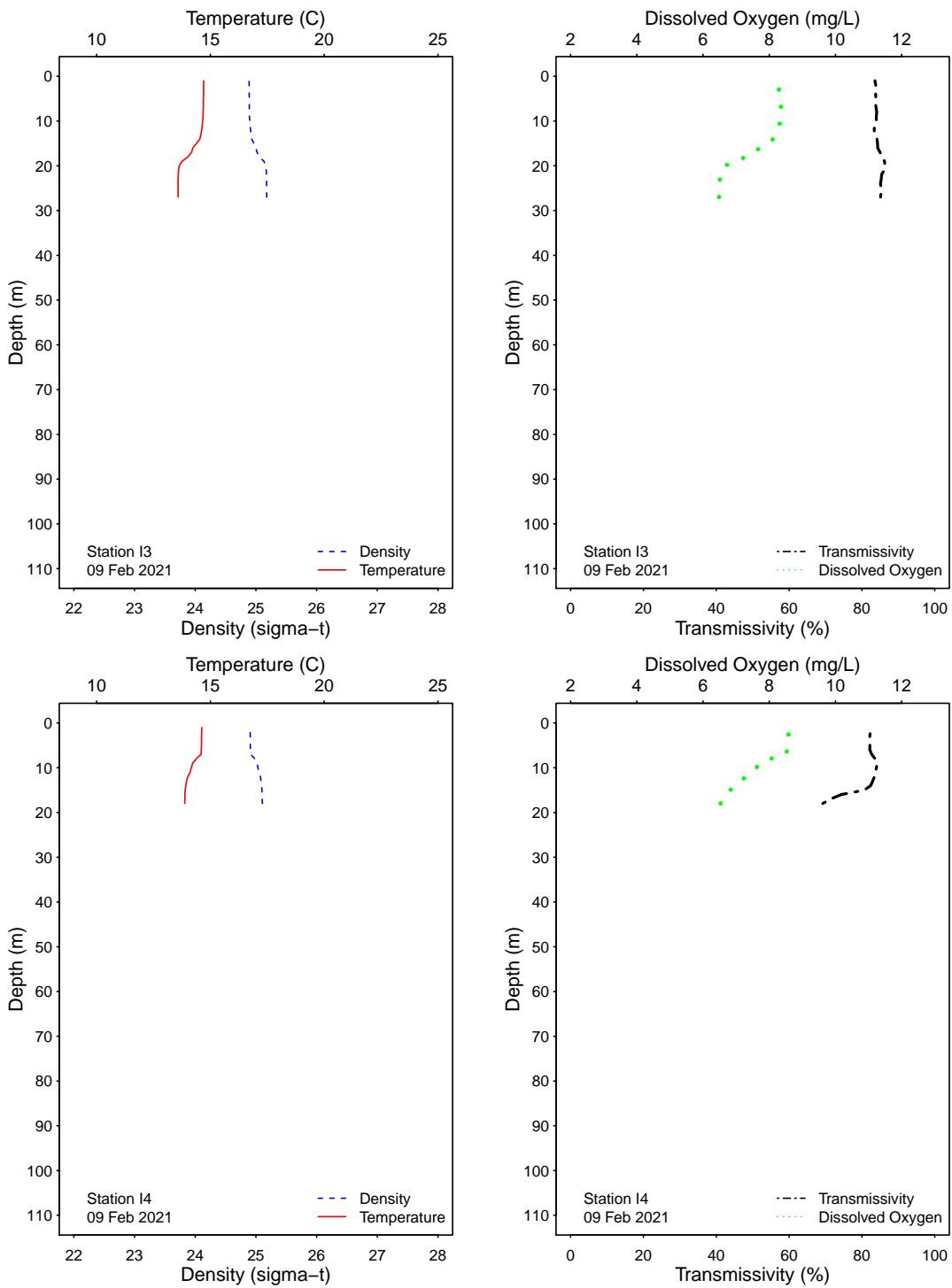


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

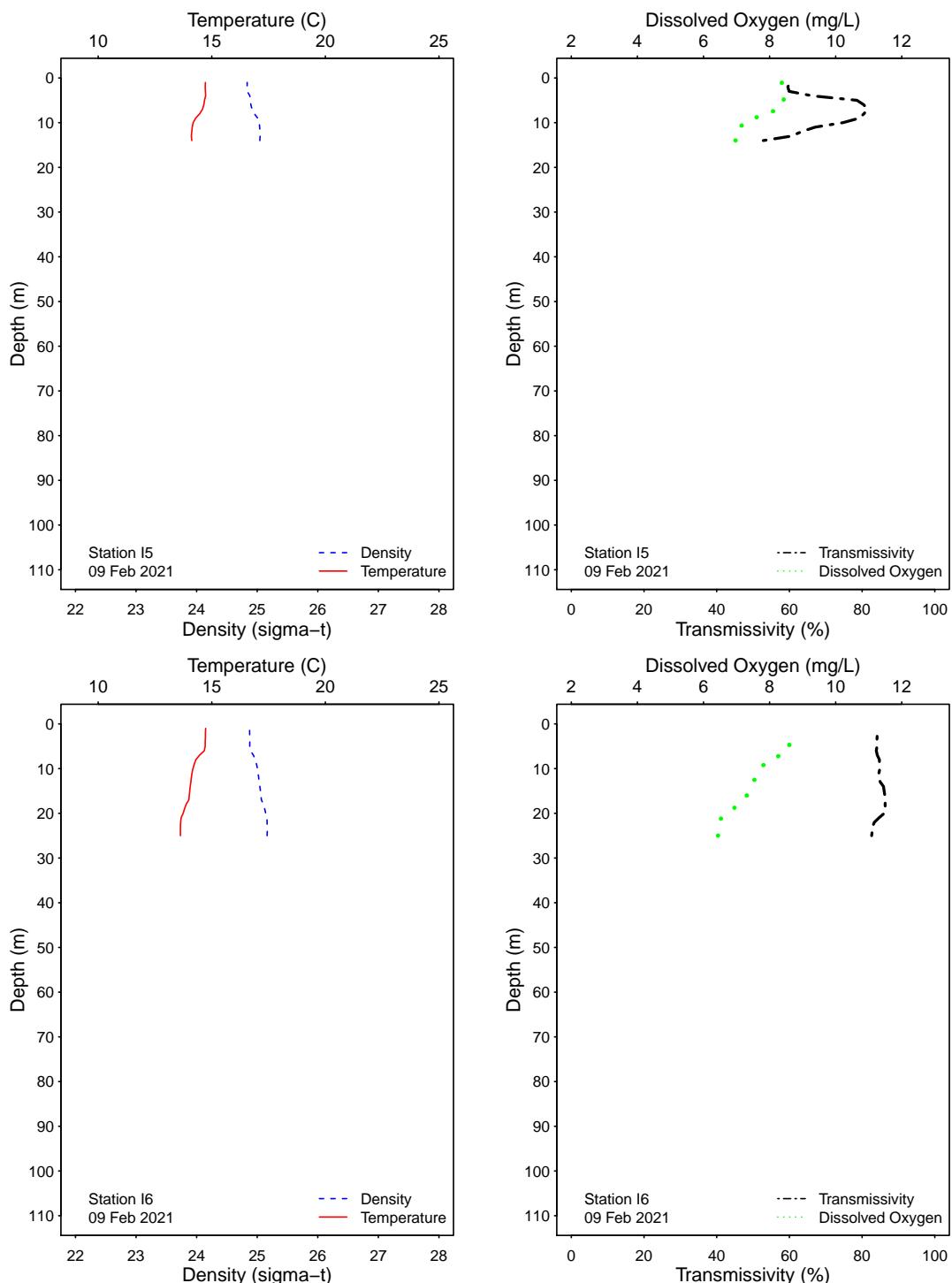


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

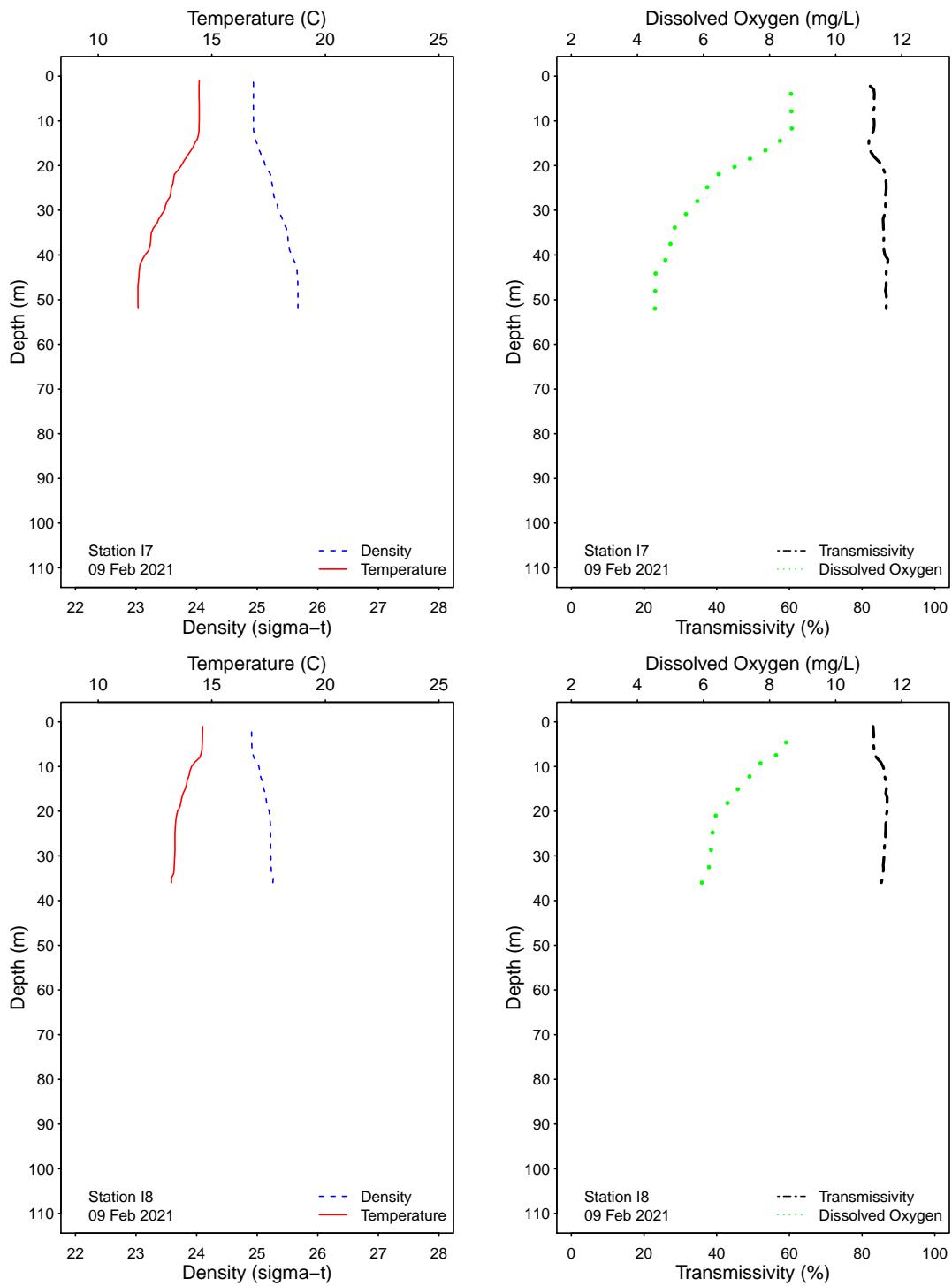


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

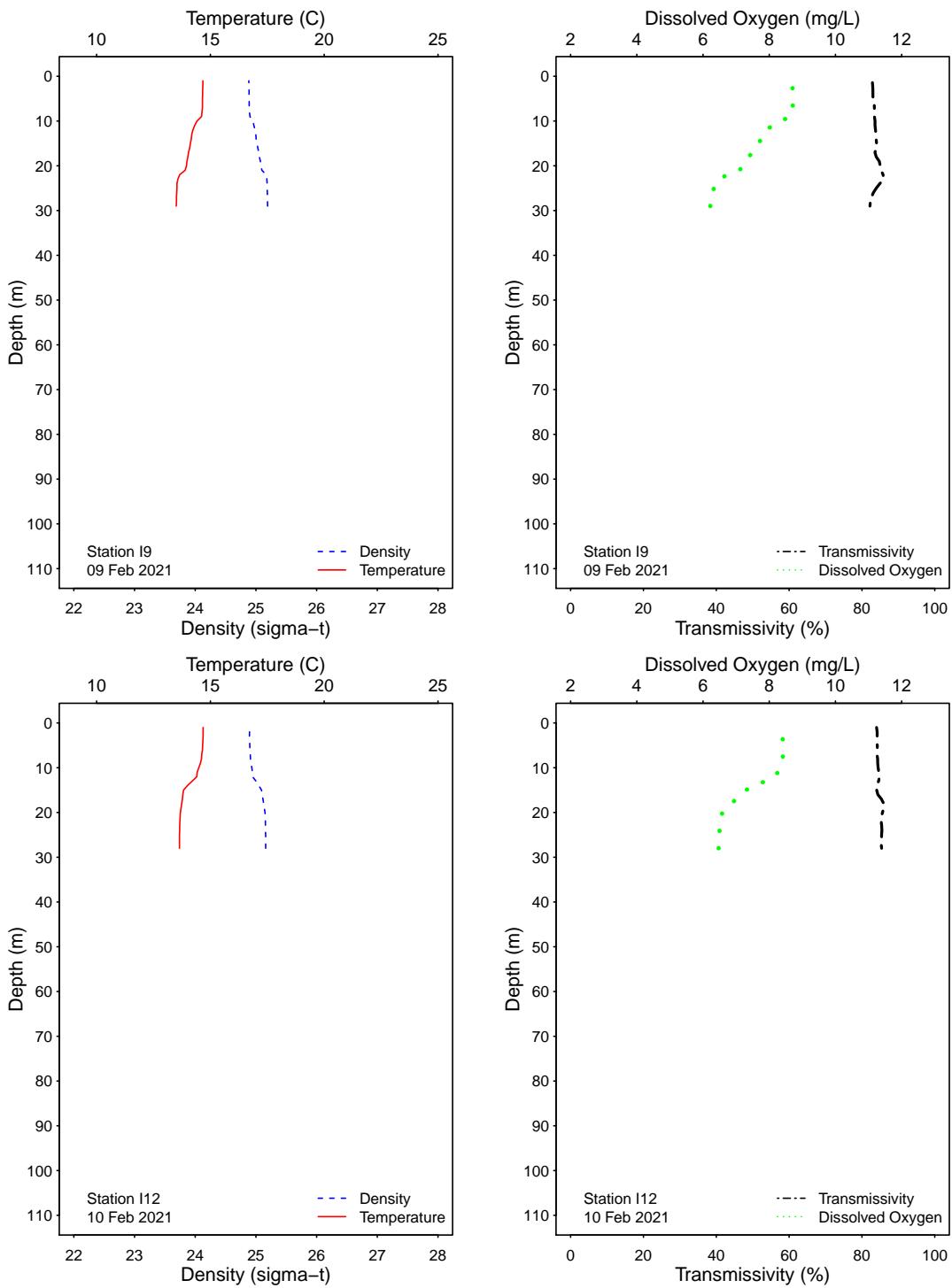


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

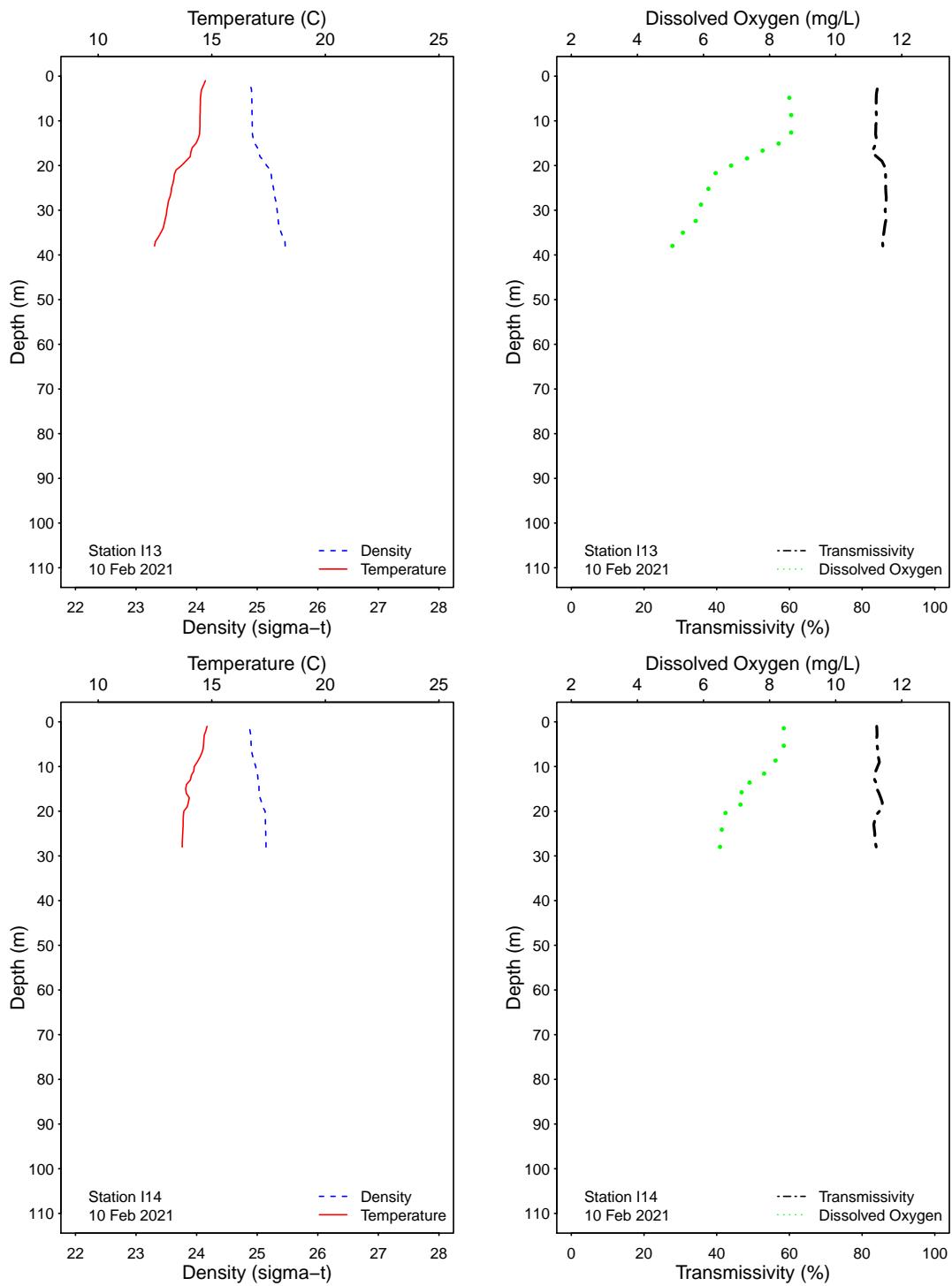


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

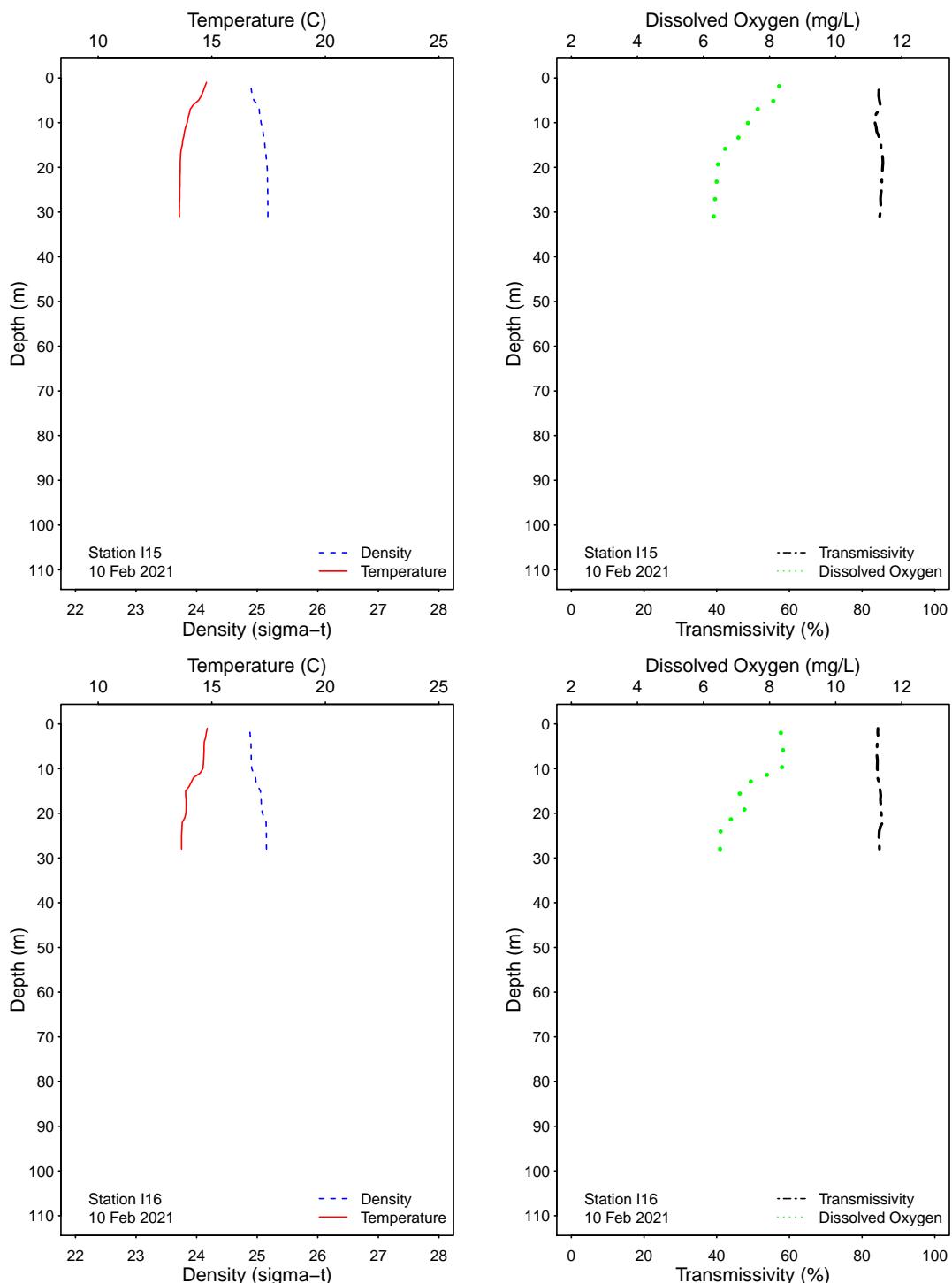


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

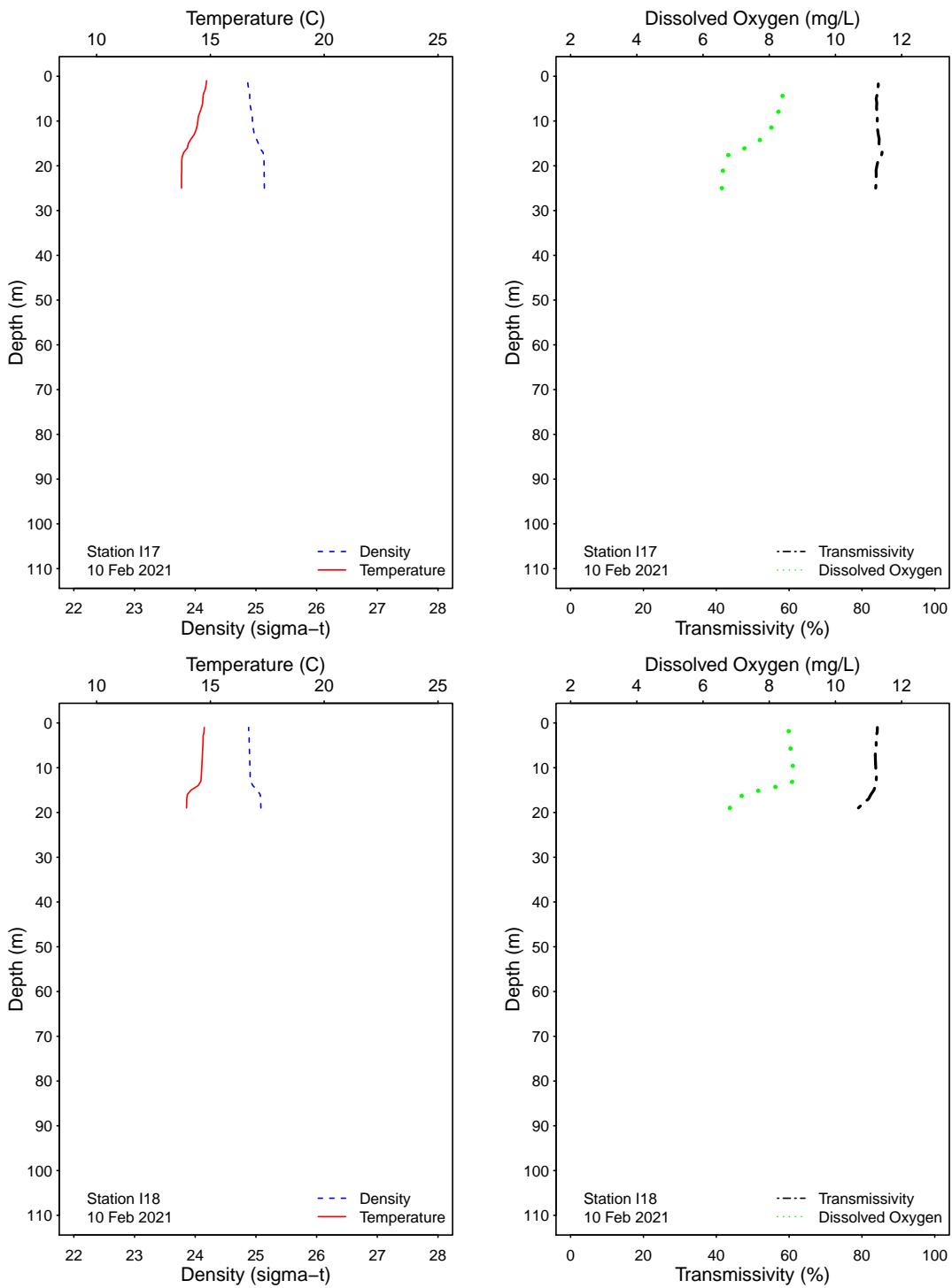


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

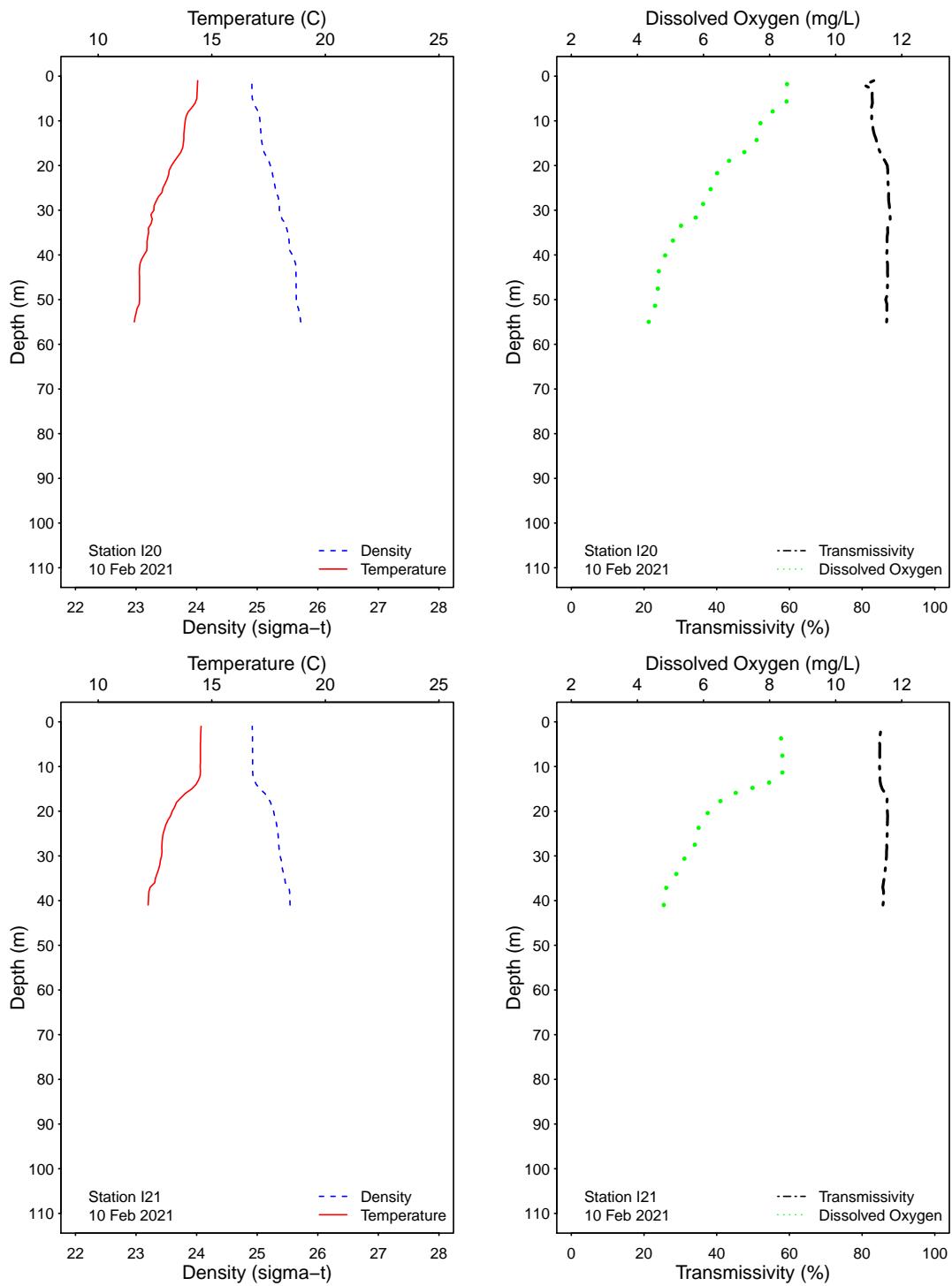


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

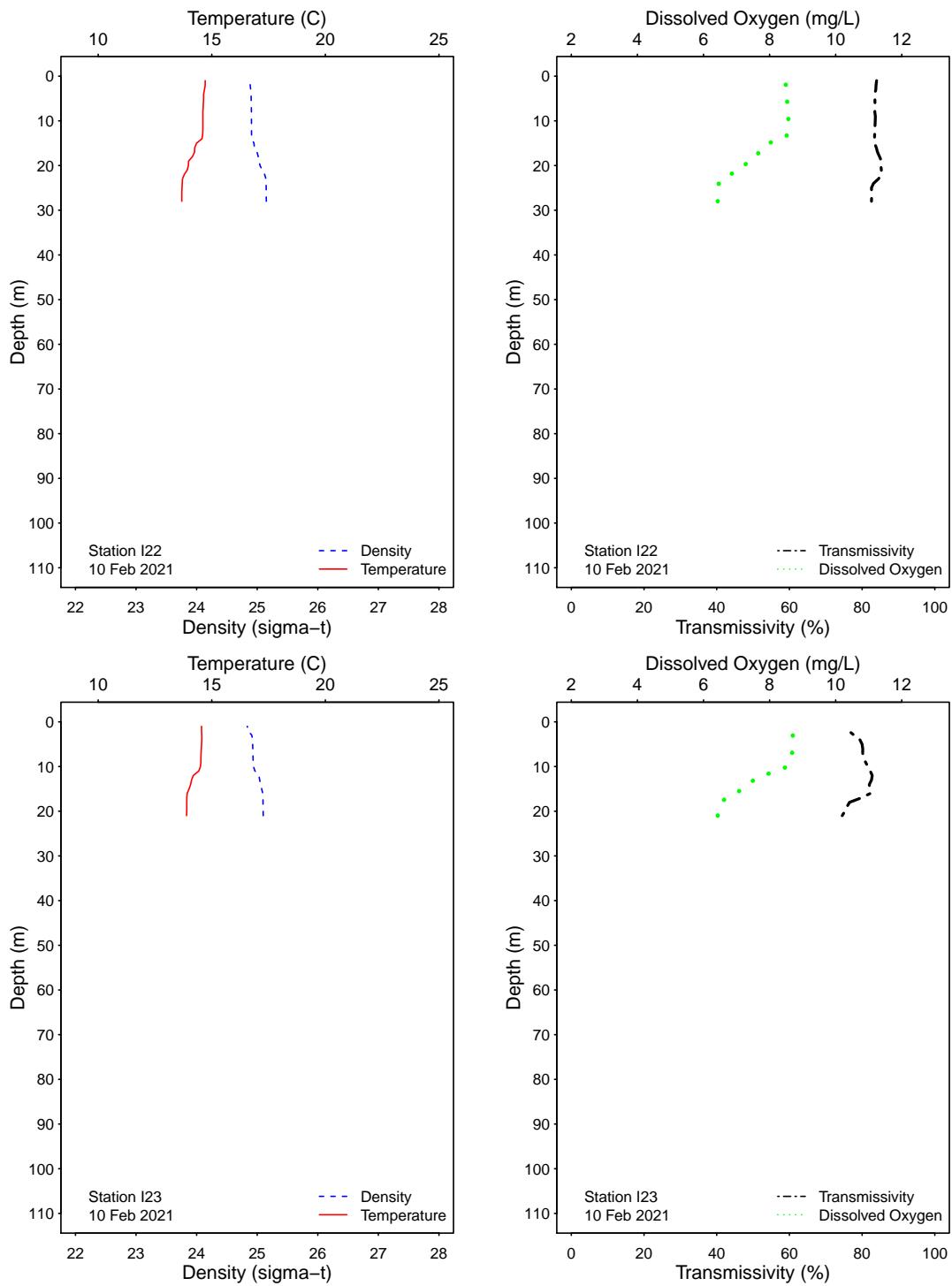


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

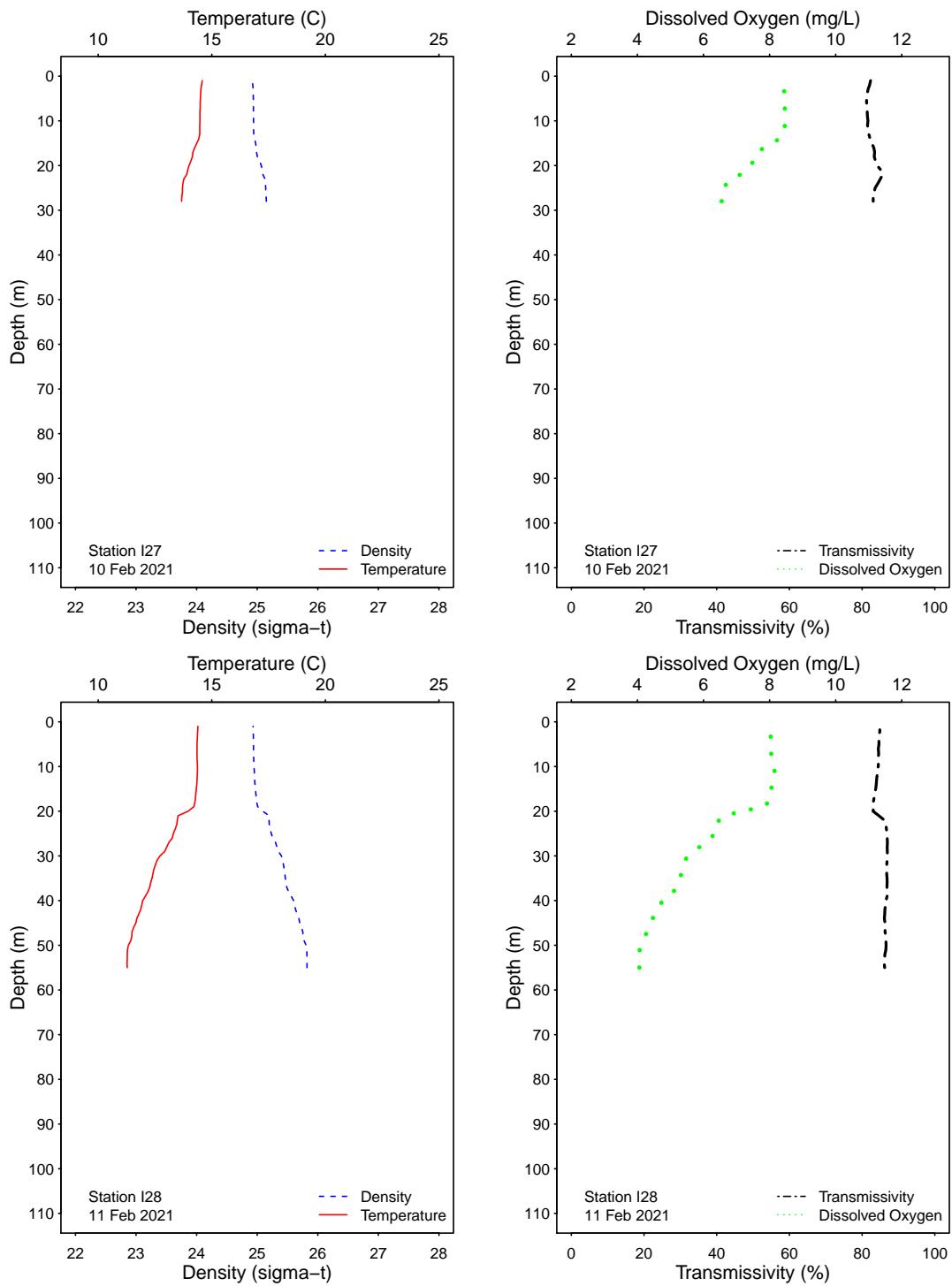


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

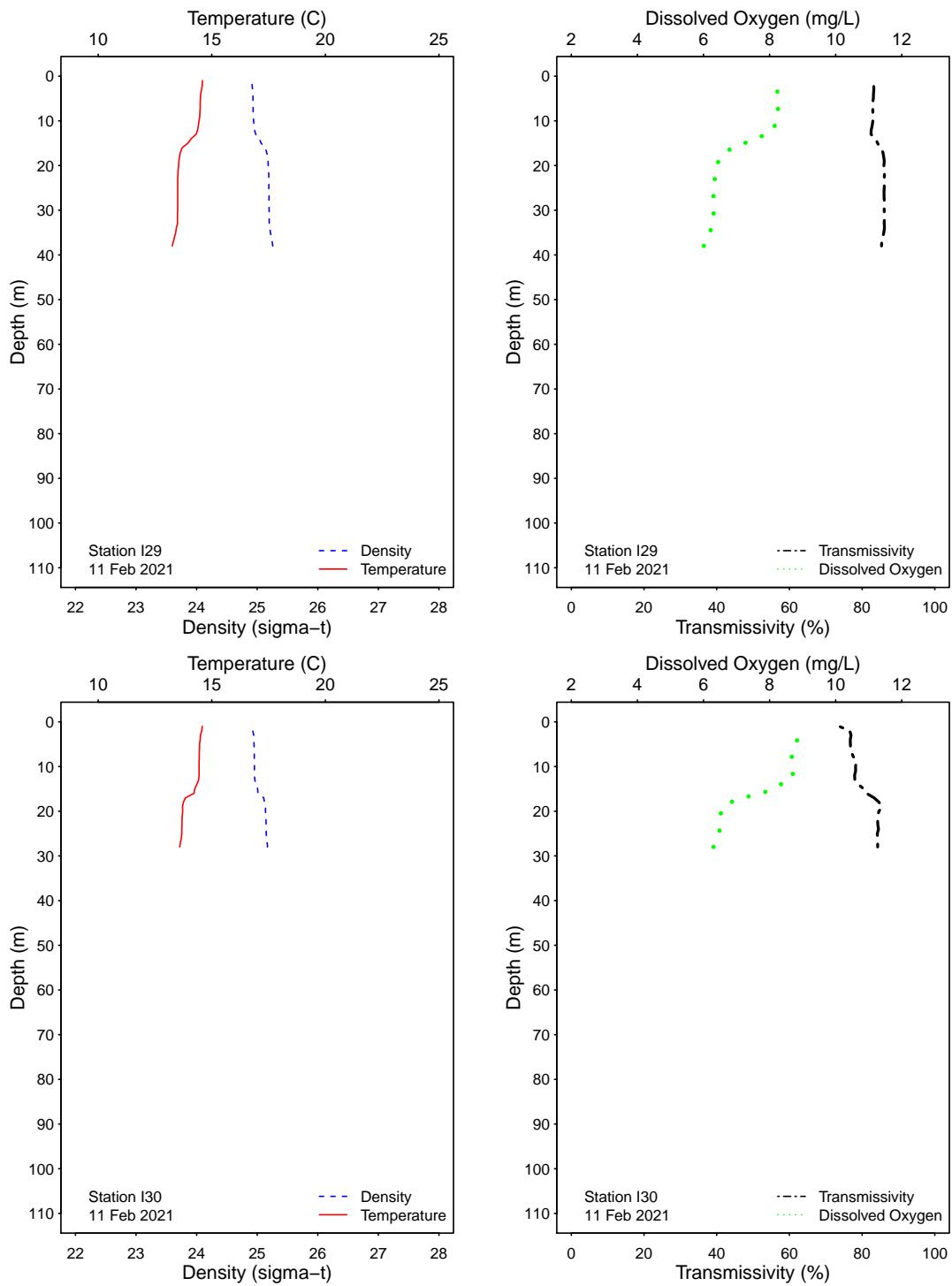


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

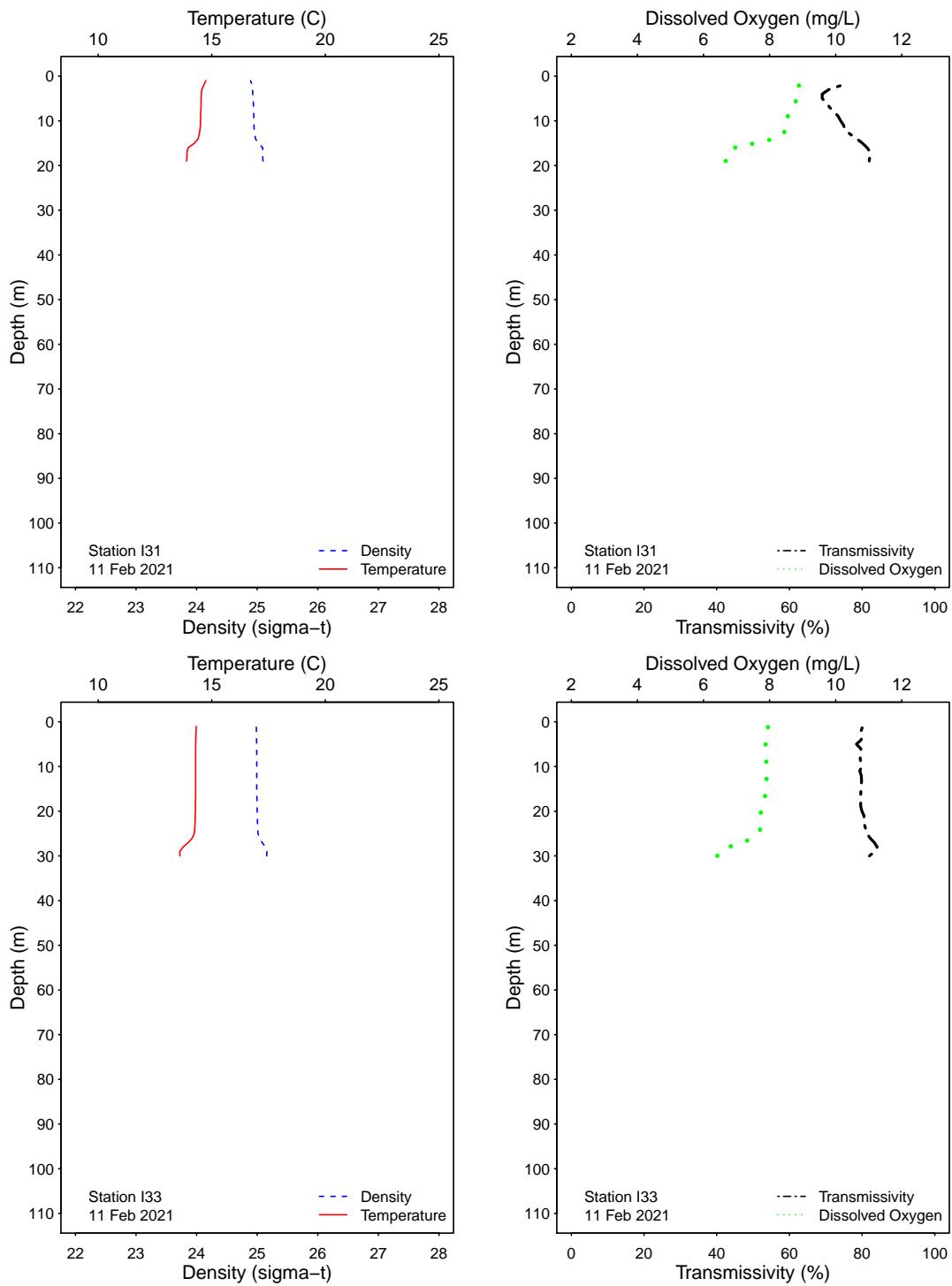


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

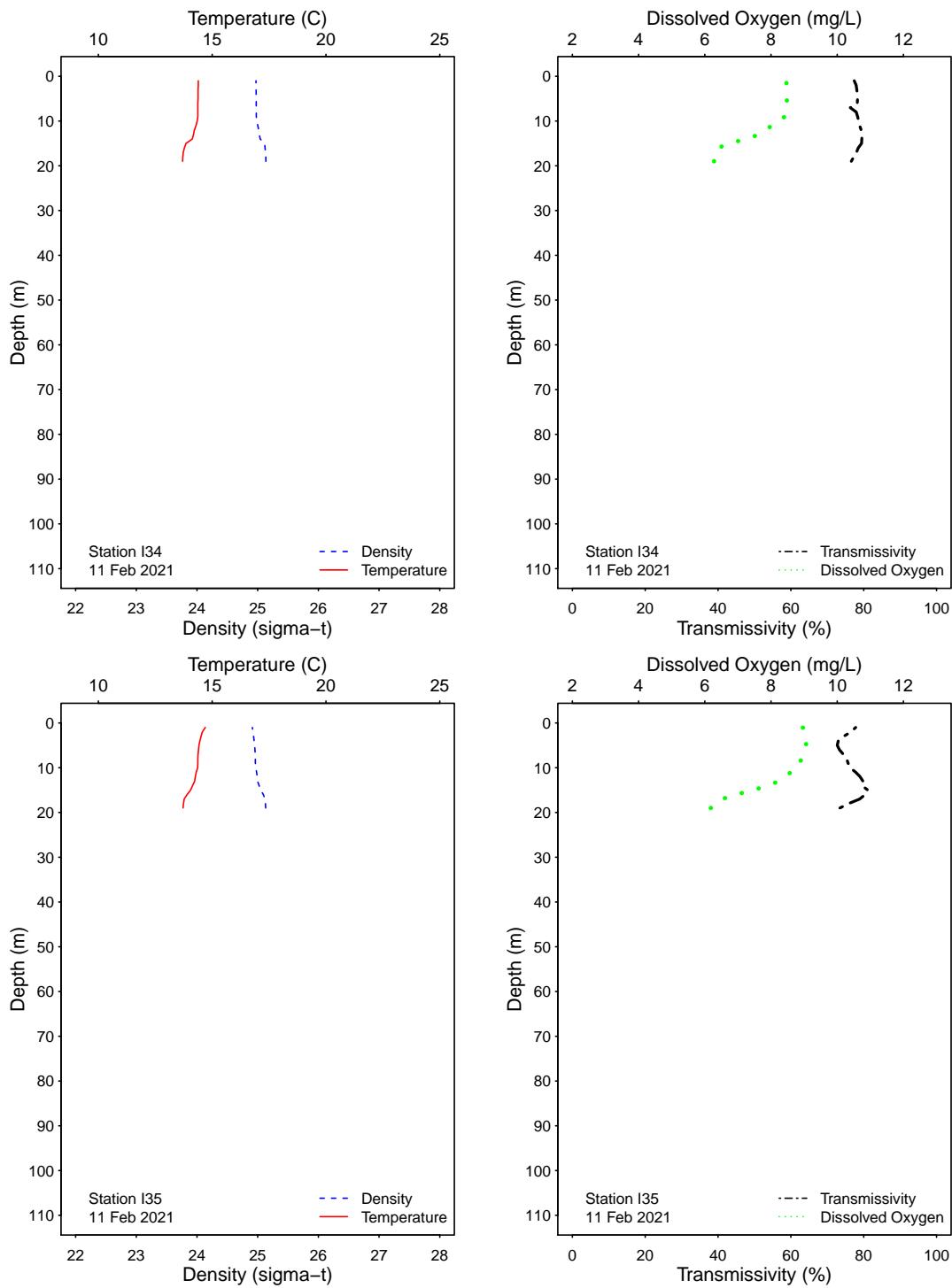


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

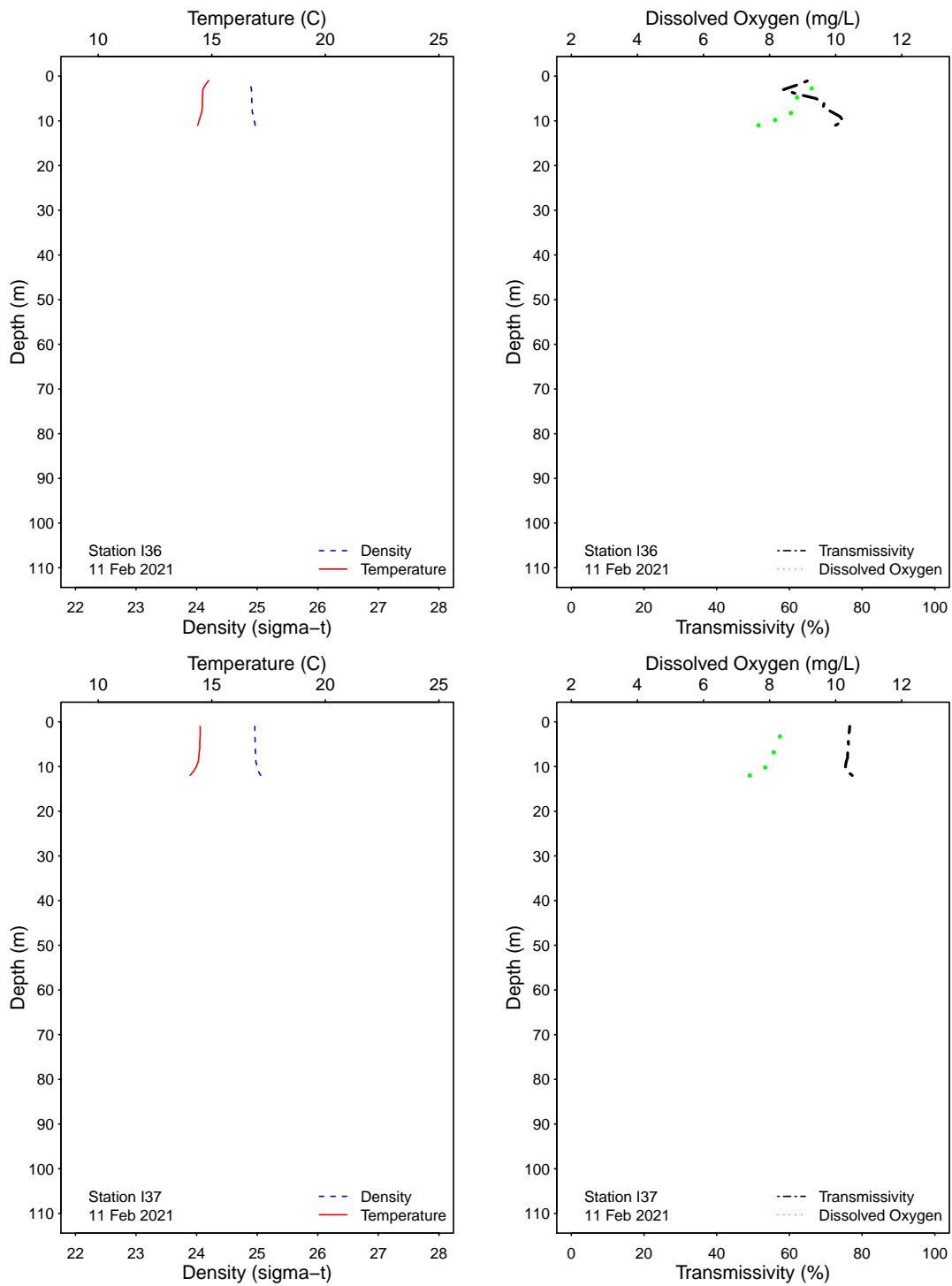


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

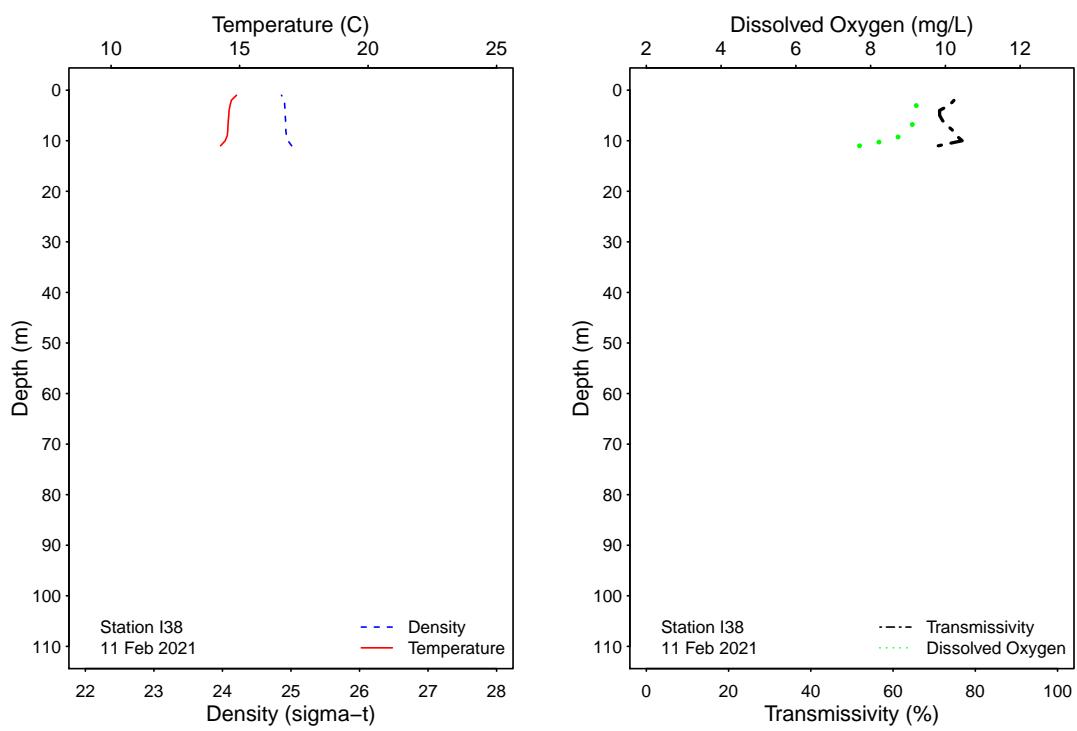


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

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## APPENDIX A

### Quality Assurance



**Table A.1**

Summary of bacteriological quality assurance field and lab duplicate sample analyses at selected SBOO stations. Densities of total coliform (Total), fecal coliform (Fecal), and *Enterococcus* (Entero) are reported as CFU/100 mL.

<b>Station</b>	<b>Date</b>	<b>Depth</b>	<b>Analyst</b>	<b>Procedure</b>	<b>Total</b>	<b>Fecal</b>	<b>Entero</b>
I3	09 Feb 2021	18	JF	LAB DUPLICATE	<2	<2	<2
I8	09 Feb 2021	37	AE	LAB DUPLICATE	<2	<2	<2
I9	09 Feb 2021	27	AR	LAB DUPLICATE	20e	2e	<2
I12	10 Feb 2021	18	AE	LAB DUPLICATE	<2	<2	<2
I13	10 Feb 2021	18	AE	LAB DUPLICATE	<2	<2	<2
I14	10 Feb 2021	2	JF	LAB DUPLICATE	<2	<2	<2
I16	10 Feb 2021	18	BS	LAB DUPLICATE	74	6e	6e
I19	01 Feb 2021	6	AE	LAB DUPLICATE	2200e	720	200e
I19	08 Feb 2021	6	BS	LAB DUPLICATE	800e	38e	68
I19	18 Feb 2021	6	BS	LAB DUPLICATE	9400	760	220e
I19	22 Feb 2021	6	BS	LAB DUPLICATE	100e	30e	10e
I20	10 Feb 2021	55	AE	LAB DUPLICATE	2e	<2	2e
I30	11 Feb 2021	27	AE	LAB DUPLICATE	4e	2e	<2
I36	11 Feb 2021	11	AE	FIELD DUPLICATE	100e	12e	<2
I36	11 Feb 2021	11	JF	LAB DUPLICATE	20e	6e	8e
I40	01 Feb 2021	6	AE	LAB DUPLICATE	7600	380e	180e
I40	08 Feb 2021	6	BS	LAB DUPLICATE	7400	2000e	480
I40	18 Feb 2021	6	JF	LAB DUPLICATE	200e	26e	12e
I40	22 Feb 2021	6	AE	LAB DUPLICATE	6e	2e	2e
S12	02 Feb 2021		AE	FIELD DUPLICATE	<20	<2	6e
S12	02 Feb 2021		AE	LAB DUPLICATE	<20	<2	<2
S12	09 Feb 2021		AE	FIELD DUPLICATE	600	200e	48
S12	09 Feb 2021		AE	LAB DUPLICATE	600e	160e	64
S12	16 Feb 2021		AE	FIELD DUPLICATE	ns	<2	<2
S12	16 Feb 2021		JF	FIELD DUPLICATE	80e	ns	ns
S12	16 Feb 2021		JF	LAB DUPLICATE	<20	2e	4e
S12	23 Feb 2021		AE	FIELD DUPLICATE	<200	<2	<2
S12	23 Feb 2021		AE	LAB DUPLICATE	<200	2e	4e

ns = not sampled

ND = no data



## **APPENDIX B**

### **New 2019 Ocean Plan Water Quality Objectives**



# Shore Stations



**Table B.1**

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (\*). Values >30 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2021	141	846	5	3	7	485	6	3
02 Feb 2021	337	821	7	3	7	1001	9	3
03 Feb 2021	337	821	7	3	7	1001	9	3
04 Feb 2021	482	821	7	3	7	1187	9	3
05 Feb 2021	482	821	7	3	7	1187	9	3
06 Feb 2021	484	821	7	3	7	1143	9	3
07 Feb 2021	484	821	7	3	7	1143	9	3
08 Feb 2021	456	821	7	3	7	1085	9	3
09 Feb 2021	407	1396	10	8	5	1418	12	5
10 Feb 2021	407	1396	10	8	5	1418	12	5
11 Feb 2021	407	1231	11	7	5	1292	12	5
12 Feb 2021	407	1231	11	7	5	1292	12	5
13 Feb 2021	407	997	11	7	5	1260	12	5
14 Feb 2021	407	997	11	7	5	1260	12	5
15 Feb 2021	407	997	11	7	5	1327	12	5
16 Feb 2021	426	971	21	8	5	1239	24	5
17 Feb 2021	426	971	21	8	5	1239	24	5
18 Feb 2021	441	971	18	8	5	1143	21	5
19 Feb 2021	397	811	18	8	5	995	21	5
20 Feb 2021	446	971	18	8	5	1040	21	5
21 Feb 2021	410	811	18	8	5	1001	21	5
22 Feb 2021	464	971	18	8	5	1149	21	5
23 Feb 2021	649	1094	14	6	3	1366	20	5
24 Feb 2021	649	1094	14	6	3	1366	20	5
25 Feb 2021	625	1338	14	6	3	1202	20	5
26 Feb 2021	625	1338	14	6	3	1202	20	5
27 Feb 2021	601	1188	14	6	3	1062	20	5
28 Feb 2021	601	1188	14	6	3	1062	20	5

\* Geometric mean calculated using n<5

**Table B.2**

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
February	E	E	E	E	IC	E	E	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

# Kelp Stations



**Table B.3**

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (\*). Values >30 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2021	78	9	8	8	3	6	24
02 Feb 2021	78	9	8	8	3	6	24
03 Feb 2021	78	9	8	8	3	6	24
04 Feb 2021	78	9	8	8	3	6	24
05 Feb 2021	78	9	8	8	3	6	24
06 Feb 2021	78	9	8	8	3	6	24
07 Feb 2021	162	13	11	10	4	5	40
08 Feb 2021	129	20	17	13	4	9	87
09 Feb 2021	129	20	17	13	4	9	87
10 Feb 2021	129	20	17	13	4	9	87
11 Feb 2021	129	20	17	13	4	9	87
12 Feb 2021	129	20	17	13	4	9	87
13 Feb 2021	129	20	17	13	4	9	87
14 Feb 2021	129	20	17	13	4	9	87
15 Feb 2021	129	20	17	13	4	9	87
16 Feb 2021	85	32	27	19	4	12	119
17 Feb 2021	85	32	27	19	4	12	119
18 Feb 2021	112	21	17	13	4	9	85
19 Feb 2021	112	21	17	13	4	9	85
20 Feb 2021	112	21	17	13	4	9	85
21 Feb 2021	112	21	17	13	4	9	85
22 Feb 2021	109	19	13	10	4	7	57
23 Feb 2021	109	19	13	10	4	7	57
24 Feb 2021	88	26	17	13	4	8	65
25 Feb 2021	88	26	17	13	4	8	65
26 Feb 2021	88	26	17	13	4	8	65
27 Feb 2021	88	26	17	13	4	8	65
28 Feb 2021	88	26	17	13	4	8	65

\* Geometric mean calculated using n<5

**Table B.4**

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	I19	I24	I25	I26	I32	I39	I40
February	E	E	E	E	IC	E	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

# Offshore Stations



**Table B.5**

Summary of compliance with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria at the SBOO offshore stations within State jurisdictional waters. *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
February	IC	IC	IC	IC	IC	E	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

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