



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

## **SOUTH BAY WATER RECLAMATION PLANT**

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

## **AUGUST 2020**

Environmental Monitoring and Technical Services  
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The City of  
**SAN DIEGO**  
Public Utilities Department

Environmental Monitoring & Technical Services Division

September 30, 2020

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 August 2020 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

RK/rg

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 2020 Quality Assurance Report, which will be completed in March 2021.

## SUMMARY OF RESULTS

### ➤ 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 August, six of the eight shore stations located north of the border were out of compliance with California Ocean Plan (Ocean Plan) water contact standards on one or more days as follows:
  - The 30-day geometric mean standard for total coliform was exceeded at stations S5 and S11.
  - The 30-day geometric mean standard for fecal coliform was exceeded at station S5.
  - The 30-day geometric mean standard for *Enterococcus* was exceeded at stations S5, S6, and S11.

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

- The single sample maximum (SSM) standard for total coliform was exceeded at stations S5, S6, S11, and S12.
  - The SSM standard for fecal coliform was exceeded at stations S4, S5, S6, S11, and S12.
  - The SSM standard for *Enterococcus* was exceeded at stations S4, S5, S6, 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, S10, S11, and S12.
  - 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 stations S0, S2, and S3 on one or more days during August.
- Nothing of sewage origin was observed at any of these shore stations.
- 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 August 4, 11, 17, 27, and 31.
- Five 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 standard for *Enterococcus* was exceeded at stations I19, I24, and I40.
  - The SSM standard for total coliform was exceeded at stations I19 and I40.
  - The SSM standard for fecal coliform was exceeded at station I19, I24, I25, I26, and I40.
  - The SSM standard for *Enterococcus* was exceeded at stations I19, I24, I25, 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 station I19, I24, I25, I26, and I40.
- Water column temperatures ranged from 12.70 to 21.94°C. The difference between surface and bottom waters ranged from 0.83 to 6.54°C.
- Concentrations of chlorophyll *a* ranged from 0.66 to 14.63 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., August 24, 25, 26).
- During August, all of the offshore stations located within State jurisdictional waters (i.e., I12, I14, I16, I18, I22, I23, I33, I36–I38) were in compliance with the relevant Ocean Plan single sample maximum standards.
- Although the Ocean Plan standards do not apply to stations outside State jurisdictional waters, bacteria densities for these stations did not exceed 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).
- Water column temperatures ranged from 11.80 to 23.81°C at the offshore sites. The difference between surface and bottom waters ranged from 3.64 to 11.44°C.
- Chlorophyll *a* concentrations ranged from 0.48 to 12.29 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.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Aug 2020	44*	11530	151	27*	24*	85	1016	28*
02 Aug 2020	44*	11530	151	27*	24*	85	1016	28*
03 Aug 2020	44*	11530	151	27*	24*	85	1016	28*
04 Aug 2020	118	11824	271	25	23	135	1433	55
05 Aug 2020	118	11824	271	25	23	135	1433	55
06 Aug 2020	136	8662	159	13*	24*	275	829	50*
07 Aug 2020	136	8662	159	13*	24*	275	829	50*
08 Aug 2020	136	8230	82	13*	24*	275	543	50*
09 Aug 2020	136	8230	82	13*	24*	275	543	50*
10 Aug 2020	136	7748	54	13*	24*	275	309	50*
11 Aug 2020	67	5392	62	9	14	150	294	41
12 Aug 2020	67	4884	75	9	14	150	269	41
13 Aug 2020	86	4338	98	11*	13*	210	395	50*
14 Aug 2020	86	4338	98	11*	13*	210	395	50*
15 Aug 2020	86	4353	98	11*	13*	210	395	50*
16 Aug 2020	86	3700	98	11*	13*	210	395	50*
17 Aug 2020	86	3700	98	11*	13*	210	395	50*
18 Aug 2020	75	2189	171	19	23	150	389	146
19 Aug 2020	75	2189	171	19	23	150	389	146
20 Aug 2020	98	1945	263	11*	13*	79	704	312
21 Aug 2020	98	1945	263	11*	13*	79	704	312
22 Aug 2020	98	1507	263	11*	13*	104	704	312
23 Aug 2020	98	1507	263	11*	13*	104	704	312
24 Aug 2020	98	1507	263	11*	13*	104	704	312
25 Aug 2020	75	1301	117	12	23	89	389	197
26 Aug 2020	75	1301	117	12	23	89	389	197
27 Aug 2020	69	857	190	19*	36*	91	219	312
28 Aug 2020	69	857	190	19*	36*	91	219	312
29 Aug 2020	69	566	190	19*	36*	91	219	312
30 Aug 2020	69	566	190	19*	36*	91	219	312
31 Aug 2020	69	566	190	19*	36*	91	219	312

\* 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 Aug 2020	8*	2759	35	7*	2*	15	126	2*
02 Aug 2020	8*	2759	35	7*	2*	15	126	2*
03 Aug 2020	8*	2759	35	7*	2*	15	126	2*
04 Aug 2020	22	2795	68	5	3	25	186	5
05 Aug 2020	22	2795	68	5	3	25	186	5
06 Aug 2020	23	1984	39	2*	3*	38	99	6*
07 Aug 2020	23	1984	39	2*	3*	38	99	6*
08 Aug 2020	23	1760	21	2*	3*	38	55	6*
09 Aug 2020	23	1760	21	2*	3*	38	55	6*
10 Aug 2020	23	1535	13	2*	3*	38	25	6*
11 Aug 2020	15	1032	13	2	3	25	21	5
12 Aug 2020	15	866	13	2	3	25	18	5
13 Aug 2020	17	708	18	2*	3*	32	23	6*
14 Aug 2020	17	708	18	2*	3*	32	23	6*
15 Aug 2020	17	690	18	2*	3*	32	23	6*
16 Aug 2020	17	532	18	2*	3*	32	23	6*
17 Aug 2020	17	532	18	2*	3*	32	23	6*
18 Aug 2020	17	314	27	3	3	25	27	17
19 Aug 2020	17	314	27	3	3	25	27	17
20 Aug 2020	21	254	40	4*	3*	14	41	46
21 Aug 2020	21	254	40	4*	3*	14	41	46
22 Aug 2020	21	231	40	4*	3*	20	41	46
23 Aug 2020	21	141	40	4*	3*	20	41	46
24 Aug 2020	21	141	40	4*	3*	20	41	46
25 Aug 2020	18	118	24	3	3	18	27	27
26 Aug 2020	18	118	24	3	3	18	27	27
27 Aug 2020	21	61	40	4*	3*	22	16	46
28 Aug 2020	21	61	40	4*	3*	22	16	46
29 Aug 2020	21	41	40	4*	3*	22	24	46
30 Aug 2020	21	66	40	4*	3*	22	24	46
31 Aug 2020	21	66	40	4*	3*	22	24	46

\* 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 Aug 2020	9*	2705	95	3*	6*	17	199	6*
02 Aug 2020	9*	2705	95	3*	6*	17	199	6*
03 Aug 2020	9*	2465	95	3*	6*	17	199	6*
04 Aug 2020	21	2351	141	4	6	27	233	8
05 Aug 2020	21	2325	141	4	6	27	233	8
06 Aug 2020	23	1410	65	3*	8*	29	110	6*
07 Aug 2020	23	1410	65	3*	8*	29	110	6*
08 Aug 2020	23	1222	41	3*	8*	29	62	6*
09 Aug 2020	23	1222	41	3*	8*	29	62	6*
10 Aug 2020	23	1038	30	3*	8*	29	29	6*
11 Aug 2020	15	717	20	3	6	20	21	5
12 Aug 2020	15	586	16	3	6	20	17	5
13 Aug 2020	15	465	13	3*	8*	20	13	6*
14 Aug 2020	15	465	13	3*	8*	20	13	6*
15 Aug 2020	15	459	13	3*	8*	20	13	6*
16 Aug 2020	15	341	13	3*	8*	20	13	6*
17 Aug 2020	15	341	13	3*	8*	20	13	6*
18 Aug 2020	17	187	17	3	6	18	14	10
19 Aug 2020	17	187	17	3	6	18	14	10
20 Aug 2020	19	169	20	3*	7*	10	20	10*
21 Aug 2020	19	169	20	3*	7*	10	20	10*
22 Aug 2020	19	139	20	3*	7*	13	20	10*
23 Aug 2020	19	80	20	3*	7*	13	20	10*
24 Aug 2020	19	80	20	3*	7*	13	20	10*
25 Aug 2020	16	61	14	2	5	10	14	8
26 Aug 2020	16	61	14	2	5	10	14	8
27 Aug 2020	17	29	16	3*	3*	11	8	12*
28 Aug 2020	17	29	16	3*	3*	11	8	12*
29 Aug 2020	17	19	16	3*	3*	11	11	12*
30 Aug 2020	17	20	16	3*	3*	11	11	12*
31 Aug 2020	17	20	16	3*	3*	11	11	12*

\* 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
04 Aug 2020	IC	E	E	IC	IC	IC	E	IC
06 Aug 2020	IC	IC	IC	ns	ns	IC	IC	ns
11 Aug 2020	IC	IC	IC	IC	IC	IC	IC	IC
18 Aug 2020	IC	IC	IC	IC	IC	IC	IC	E
20 Aug 2020	ns	ns	ns	ns	ns	ns	ns	IC
25 Aug 2020	IC	IC	IC	IC	IC	IC	IC	IC

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
04 Aug 2020	E	E	E	IC	IC	IC	E	IC
06 Aug 2020	IC	IC	IC	ns	ns	IC	IC	ns
11 Aug 2020	IC	IC	IC	IC	IC	IC	IC	IC
18 Aug 2020	IC	IC	IC	IC	IC	IC	IC	E
20 Aug 2020	ns	ns	ns	ns	ns	ns	ns	IC
25 Aug 2020	IC	IC	IC	IC	IC	IC	IC	IC

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
04 Aug 2020	E	E	E	IC	IC	E	E	IC
06 Aug 2020	IC	IC	IC	ns	ns	IC	IC	ns
11 Aug 2020	IC	IC	IC	IC	IC	IC	IC	IC
18 Aug 2020	IC	IC	IC	IC	IC	IC	IC	IC
25 Aug 2020	IC	IC	IC	IC	IC	IC	IC	IC

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
04 Aug 2020	E	E	E	IC	IC	E	E	IC
06 Aug 2020	IC	IC	IC	ns	ns	IC	IC	ns
11 Aug 2020	IC	IC	IC	IC	IC	IC	IC	IC
18 Aug 2020	IC	IC	IC	IC	IC	IC	IC	E
20 Aug 2020	ns	ns	ns	ns	ns	ns	ns	IC
25 Aug 2020	IC	IC	IC	IC	IC	IC	IC	IC

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.

<b>Station</b>	<b>Date</b>	<b>Time</b>	<b>Total</b>	<b>Fecal</b>	<b>Enter</b>	<b>F:T</b>
S0	04 Aug 2020	1115	4400	1200	880	0.27
S0	11 Aug 2020	1055	160e	60e	110	0.38
S0	18 Aug 2020	1015	1000	200e	80e	0.20
S0	25 Aug 2020	1105	10000	240e	300e	0.02
S2	04 Aug 2020	1040	>16000	4800	600	0.30
S2	11 Aug 2020	1020	2e	2e	20e	1.00
S2	18 Aug 2020	940	2e	<2	<2	1.00
S2	25 Aug 2020	1020	<20	<2	<2	0.10
S3	04 Aug 2020	1015	>16000	8600	5000	0.54
S3	11 Aug 2020	945	<20	<2	2e	0.10
S3	18 Aug 2020	900	<2	<2	2e	1.00
S3	25 Aug 2020	945	<20	2e	2e	0.10
S4	04 Aug 2020	713	6000	1100	780	0.18
S4	06 Aug 2020	948	160e	12e	6e	0.07
S4	11 Aug 2020	827	<2	<2	2e	1.00
S4	18 Aug 2020	729	40e	20e	28e	0.50
S4	25 Aug 2020	811	<20	8e	6e	0.40
S5	04 Aug 2020	751	>16000	3400e	1100	0.21
S5	06 Aug 2020	830	280e	50	4e	0.18
S5	11 Aug 2020	928	100e	4e	4e	0.04
S5	18 Aug 2020	812	240e	36e	16e	0.15
S5	25 Aug 2020	906	540	52	12e	0.10
S6	04 Aug 2020	803	>16000	6800	2200e	0.42
S6	06 Aug 2020	847	<20	2e	2e	0.10
S6	11 Aug 2020	946	140e	18e	2e	0.13
S6	18 Aug 2020	835	2800e	220e	66	0.08
S6	25 Aug 2020	924	2e	2e	<2	1.00
S8	04 Aug 2020	902	20e	2e	6e	0.10
S8	11 Aug 2020	1030	2e	<2	<2	1.00
S8	18 Aug 2020	932	160e	24e	<2	0.15
S8	25 Aug 2020	1030	20e	2e	<2	0.10
S9	04 Aug 2020	922	20e	8e	8e	0.40
S9	11 Aug 2020	1057	2e	<2	2e	1.00
S9	18 Aug 2020	1007	<200	<2	<2	0.01
S9	25 Aug 2020	1059	<200	<2	<2	0.01
S10	04 Aug 2020	708	1400e	320e	280e	0.23
S10	06 Aug 2020	941	1400	140e	16e	0.10
S10	11 Aug 2020	817	4e	<2	<2	0.50
S10	18 Aug 2020	720	<20	6e	8e	0.30
S10	25 Aug 2020	824	40e	10e	2e	0.25

<b>Station</b>	<b>Date</b>	<b>Time</b>	<b>Total</b>	<b>Fecal</b>	<b>Enter</b>	<b>F:T</b>
S11	04 Aug 2020	757	>16000	4400	840	0.28
S11	06 Aug 2020	839	<20	<2	<2	0.10
S11	11 Aug 2020	937	220e	6e	2e	0.03
S11	18 Aug 2020	825	360e	70	26e	0.19
S11	25 Aug 2020	915	<20	<2	<2	0.10
S12	04 Aug 2020	817	760	140e	32e	0.18
S12	11 Aug 2020	1003	<20	<2	2e	0.10
S12	18 Aug 2020	904	11000	1200e	80e	0.11
S12	20 Aug 2020	711	880	300e	ns	0.34
S12	25 Aug 2020	946	<20	2e	4e	0.10

ns = not sampled

ND = no data

### Comments

Station	Date	Depth	Parameter	Comments
S4	06 Aug 2020			Resample
S5	06 Aug 2020			Resample
S6	06 Aug 2020			Resample
S10	06 Aug 2020			Resample
S11	06 Aug 2020			Resample
S12	20 Aug 2020			Resample

**Table 2.9**

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

<b>Station</b>	<b>Date</b>	<b>Parameter</b>	<b>Value</b>
S0	04 Aug 2020	Arrive Time	1115
S0	04 Aug 2020	Weather	Cloudy
S0	04 Aug 2020	Wind Speed (kts)	2.5
S0	04 Aug 2020	Wind Dir	NE
S0	04 Aug 2020	Animal Life	None
S0	04 Aug 2020	Floatables	None
S0	04 Aug 2020	Water Color	Green
S0	04 Aug 2020	Current Direction	N
S0	04 Aug 2020	Water Temp (C)	16
S0	04 Aug 2020	Wave Height Low (ft)	3
S0	04 Aug 2020	High Tide (ft)	4.2
S0	04 Aug 2020	High Tide Time	1058
S0	04 Aug 2020	Low Tide (ft)	1.8
S0	04 Aug 2020	Low Tide Time	1612
S0	04 Aug 2020	Comments	Kelp; 1 Person; Water clear; 0.5 L/sec water flowing from storm drain
S0	11 Aug 2020	Arrive Time	1055
S0	11 Aug 2020	Weather	Cloudy
S0	11 Aug 2020	Wind Speed (kts)	1.8
S0	11 Aug 2020	Wind Dir	NE
S0	11 Aug 2020	Animal Life	5 Shorebirds
S0	11 Aug 2020	Floatables	None
S0	11 Aug 2020	Water Color	Green
S0	11 Aug 2020	Current Direction	N
S0	11 Aug 2020	Water Temp (C)	17
S0	11 Aug 2020	Wave Height Low (ft)	3
S0	11 Aug 2020	High Tide (ft)	4.4
S0	11 Aug 2020	High Tide Time	1531
S0	11 Aug 2020	Low Tide (ft)	2.2
S0	11 Aug 2020	Low Tide Time	828
S0	11 Aug 2020	Comments	Kelp; 6 Persons; Water clear; 0.5 L/sec water flowing from storm drain
S0	18 Aug 2020	Arrive Time	1015
S0	18 Aug 2020	Weather	Sunny
S0	18 Aug 2020	Wind Speed (kts)	2
S0	18 Aug 2020	Wind Dir	NE
S0	18 Aug 2020	Animal Life	10 Shorebirds; 2 Dogs
S0	18 Aug 2020	Floatables	None
S0	18 Aug 2020	Water Color	Green
S0	18 Aug 2020	Current Direction	N
S0	18 Aug 2020	Water Temp (C)	22
S0	18 Aug 2020	Wave Height Low (ft)	3
S0	18 Aug 2020	High Tide (ft)	4.4
S0	18 Aug 2020	High Tide Time	954
S0	18 Aug 2020	Low Tide (ft)	1.5
S0	18 Aug 2020	Low Tide Time	1512
S0	18 Aug 2020	Comments	Kelp; 2 Persons; Water clear; 0.5 L/sec water flowing from storm drain

Station	Date	Parameter	Value
S0	25 Aug 2020	Arrive Time	1105
S0	25 Aug 2020	Weather	Cloudy
S0	25 Aug 2020	Wind Speed (kts)	2.6
S0	25 Aug 2020	Wind Dir	NE
S0	25 Aug 2020	Animal Life	10 Shorebirds; 1 Dog
S0	25 Aug 2020	Floatables	None
S0	25 Aug 2020	Water Color	Green
S0	25 Aug 2020	Current Direction	N
S0	25 Aug 2020	Water Temp (C)	22
S0	25 Aug 2020	Wave Height Low (ft)	3
S0	25 Aug 2020	High Tide (ft)	5.2
S0	25 Aug 2020	High Tide Time	1508
S0	25 Aug 2020	Low Tide (ft)	2
S0	25 Aug 2020	Low Tide Time	824
S0	25 Aug 2020	Comments	Kelp; 3 Persons; Water clear; 1.0 L/sec water flowing from storm drain
S2	04 Aug 2020	Arrive Time	1040
S2	04 Aug 2020	Weather	Cloudy
S2	04 Aug 2020	Wind Speed (kts)	3.5
S2	04 Aug 2020	Wind Dir	NE
S2	04 Aug 2020	Animal Life	1 Dog; 5 Seagulls
S2	04 Aug 2020	Floatables	None
S2	04 Aug 2020	Water Color	Green
S2	04 Aug 2020	Current Direction	N
S2	04 Aug 2020	Water Temp (C)	16
S2	04 Aug 2020	Wave Height Low (ft)	3
S2	04 Aug 2020	High Tide (ft)	4.2
S2	04 Aug 2020	High Tide Time	1058
S2	04 Aug 2020	Low Tide (ft)	1.8
S2	04 Aug 2020	Low Tide Time	1612
S2	04 Aug 2020	Comments	Kelp; 10 Persons; Water clear; No flow from storm drain
S2	11 Aug 2020	Arrive Time	1020
S2	11 Aug 2020	Weather	Cloudy
S2	11 Aug 2020	Wind Speed (kts)	1.4
S2	11 Aug 2020	Wind Dir	NE
S2	11 Aug 2020	Animal Life	10 Shorebirds; 6 Dogs
S2	11 Aug 2020	Floatables	None
S2	11 Aug 2020	Water Color	Green
S2	11 Aug 2020	Current Direction	N
S2	11 Aug 2020	Water Temp (C)	17
S2	11 Aug 2020	Wave Height Low (ft)	3
S2	11 Aug 2020	High Tide (ft)	4.4
S2	11 Aug 2020	High Tide Time	1531
S2	11 Aug 2020	Low Tide (ft)	2.2
S2	11 Aug 2020	Low Tide Time	828
S2	11 Aug 2020	Comments	Kelp; 10 Persons; Water clear; No flow from storm drain
S2	18 Aug 2020	Arrive Time	940
S2	18 Aug 2020	Weather	Sunny
S2	18 Aug 2020	Wind Speed (kts)	1.8
S2	18 Aug 2020	Wind Dir	NE
S2	18 Aug 2020	Animal Life	10 Shorebirds; 3 Dogs
S2	18 Aug 2020	Floatables	None

Station	Date	Parameter	Value
S2	18 Aug 2020	Water Color	Green
S2	18 Aug 2020	Current Direction	N
S2	18 Aug 2020	Water Temp (C)	22
S2	18 Aug 2020	Wave Height Low (ft)	3
S2	18 Aug 2020	High Tide (ft)	4.4
S2	18 Aug 2020	High Tide Time	954
S2	18 Aug 2020	Low Tide (ft)	1.5
S2	18 Aug 2020	Low Tide Time	1512
S2	18 Aug 2020	Comments	Kelp; 10 Persons; 1 Surfer; Water clear; No flow from storm drain
S2	25 Aug 2020	Arrive Time	1020
S2	25 Aug 2020	Weather	Cloudy
S2	25 Aug 2020	Wind Speed (kts)	2.5
S2	25 Aug 2020	Wind Dir	NE
S2	25 Aug 2020	Animal Life	10 Shorebirds; 1 Dog
S2	25 Aug 2020	Floatables	None
S2	25 Aug 2020	Water Color	Green
S2	25 Aug 2020	Current Direction	N
S2	25 Aug 2020	Water Temp (C)	22
S2	25 Aug 2020	Wave Height Low (ft)	3
S2	25 Aug 2020	High Tide (ft)	5.2
S2	25 Aug 2020	High Tide Time	1508
S2	25 Aug 2020	Low Tide (ft)	2
S2	25 Aug 2020	Low Tide Time	824
S2	25 Aug 2020	Comments	Kelp; 10 Persons; Water clear; No flow from storm drain
S3	04 Aug 2020	Arrive Time	1015
S3	04 Aug 2020	Weather	Cloudy
S3	04 Aug 2020	Wind Speed (kts)	2.2
S3	04 Aug 2020	Wind Dir	NE
S3	04 Aug 2020	Animal Life	5 Seagulls
S3	04 Aug 2020	Floatables	None
S3	04 Aug 2020	Water Color	Green
S3	04 Aug 2020	Current Direction	N
S3	04 Aug 2020	Water Temp (C)	16
S3	04 Aug 2020	Wave Height Low (ft)	3
S3	04 Aug 2020	High Tide (ft)	4.2
S3	04 Aug 2020	High Tide Time	1058
S3	04 Aug 2020	Low Tide (ft)	-0.7
S3	04 Aug 2020	Low Tide Time	443
S3	04 Aug 2020	Comments	Kelp; Water clear; No flow from storm drain
S3	11 Aug 2020	Arrive Time	945
S3	11 Aug 2020	Weather	Cloudy
S3	11 Aug 2020	Wind Speed (kts)	1.3
S3	11 Aug 2020	Wind Dir	NE
S3	11 Aug 2020	Animal Life	10 Shorebirds
S3	11 Aug 2020	Floatables	None
S3	11 Aug 2020	Water Color	Green
S3	11 Aug 2020	Current Direction	N
S3	11 Aug 2020	Water Temp (C)	17
S3	11 Aug 2020	Wave Height Low (ft)	3
S3	11 Aug 2020	High Tide (ft)	4.4
S3	11 Aug 2020	High Tide Time	1531

Station	Date	Parameter	Value
S3	11 Aug 2020	Low Tide (ft)	2.2
S3	11 Aug 2020	Low Tide Time	828
S3	11 Aug 2020	Comments	Kelp; 1 Person; Water clear; 0.5 L/sec water flowing from storm drain
S3	18 Aug 2020	Arrive Time	900
S3	18 Aug 2020	Weather	Sunny
S3	18 Aug 2020	Wind Speed (kts)	1.7
S3	18 Aug 2020	Wind Dir	NE
S3	18 Aug 2020	Animal Life	10 Shorebirds; 1 Dog
S3	18 Aug 2020	Floatables	None
S3	18 Aug 2020	Water Color	Green
S3	18 Aug 2020	Current Direction	N
S3	18 Aug 2020	Water Temp (C)	22
S3	18 Aug 2020	Wave Height Low (ft)	2
S3	18 Aug 2020	High Tide (ft)	4.4
S3	18 Aug 2020	High Tide Time	954
S3	18 Aug 2020	Low Tide (ft)	-0.9
S3	18 Aug 2020	Low Tide Time	341
S3	18 Aug 2020	Comments	Kelp; 10 Persons; Water clear; Flow from storm drain 0.5 L/sec
S3	25 Aug 2020	Arrive Time	945
S3	25 Aug 2020	Weather	Cloudy
S3	25 Aug 2020	Wind Speed (kts)	2.4
S3	25 Aug 2020	Wind Dir	NE
S3	25 Aug 2020	Animal Life	20 Shorebirds
S3	25 Aug 2020	Floatables	None
S3	25 Aug 2020	Water Color	Green
S3	25 Aug 2020	Current Direction	N
S3	25 Aug 2020	Water Temp (C)	22
S3	25 Aug 2020	Wave Height Low (ft)	3
S3	25 Aug 2020	High Tide (ft)	5.2
S3	25 Aug 2020	High Tide Time	1508
S3	25 Aug 2020	Low Tide (ft)	2
S3	25 Aug 2020	Low Tide Time	824
S3	25 Aug 2020	Comments	Kelp; 1 Person; Water clear; 0.5 L/sec water flowing from storm drain
S4	04 Aug 2020	Arrive Time	713
S4	04 Aug 2020	Weather	Drizzle
S4	04 Aug 2020	Wind Speed (kts)	5.4
S4	04 Aug 2020	Wind Dir	S
S4	04 Aug 2020	Animal Life	55 Godwits; 3 Stingray
S4	04 Aug 2020	Floatables	Foam; Film
S4	04 Aug 2020	Water Color	Green
S4	04 Aug 2020	Current Direction	N
S4	04 Aug 2020	Water Temp (C)	18.9
S4	04 Aug 2020	Wave Height Low (ft)	1
S4	04 Aug 2020	High Tide (ft)	4.2
S4	04 Aug 2020	High Tide Time	1058
S4	04 Aug 2020	Low Tide (ft)	-0.7
S4	04 Aug 2020	Low Tide Time	443
S4	04 Aug 2020	Comments	Kelp; Seagrass; Debris; Water clear

Station	Date	Parameter	Value
S4	06 Aug 2020	Arrive Time	948
S4	06 Aug 2020	Weather	Sunny
S4	06 Aug 2020	Wind Speed (kts)	3.4
S4	06 Aug 2020	Wind Dir	W
S4	06 Aug 2020	Animal Life	150 Godwits; 35 Seagulls
S4	06 Aug 2020	Floatables	Foam
S4	06 Aug 2020	Water Color	Green
S4	06 Aug 2020	Current Direction	S
S4	06 Aug 2020	Water Temp (C)	20.4
S4	06 Aug 2020	Wave Height Low (ft)	1
S4	06 Aug 2020	High Tide (ft)	4.3
S4	06 Aug 2020	High Tide Time	1201
S4	06 Aug 2020	Low Tide (ft)	-0.1
S4	06 Aug 2020	Low Tide Time	546
S4	06 Aug 2020	Comments	Resample; Kelp; Seagrass; Algae; Debris; Water clear
S4	11 Aug 2020	Arrive Time	827
S4	11 Aug 2020	Weather	Overcast
S4	11 Aug 2020	Wind Speed (kts)	4.6
S4	11 Aug 2020	Wind Dir	NW
S4	11 Aug 2020	Animal Life	250 Godwits; 100 Seagulls; 16 Terns
S4	11 Aug 2020	Floatables	Foam
S4	11 Aug 2020	Water Color	Green
S4	11 Aug 2020	Current Direction	S
S4	11 Aug 2020	Water Temp (C)	16.9
S4	11 Aug 2020	Wave Height Low (ft)	2
S4	11 Aug 2020	High Tide (ft)	3
S4	11 Aug 2020	High Tide Time	309
S4	11 Aug 2020	Low Tide (ft)	2.2
S4	11 Aug 2020	Low Tide Time	828
S4	11 Aug 2020	Comments	Kelp; Seagrass; Water clear
S4	18 Aug 2020	Arrive Time	729
S4	18 Aug 2020	Weather	Hazy
S4	18 Aug 2020	Wind Speed (kts)	0.7
S4	18 Aug 2020	Wind Dir	NW
S4	18 Aug 2020	Animal Life	120 Godwits; 25 Seagulls
S4	18 Aug 2020	Floatables	Foam
S4	18 Aug 2020	Water Color	Blue
S4	18 Aug 2020	Current Direction	S
S4	18 Aug 2020	Water Temp (C)	23
S4	18 Aug 2020	Wave Height Low (ft)	3
S4	18 Aug 2020	High Tide (ft)	4.4
S4	18 Aug 2020	High Tide Time	954
S4	18 Aug 2020	Low Tide (ft)	-0.9
S4	18 Aug 2020	Low Tide Time	341
S4	18 Aug 2020	Comments	Water turbid
S4	25 Aug 2020	Arrive Time	811
S4	25 Aug 2020	Weather	Overcast
S4	25 Aug 2020	Wind Speed (kts)	5
S4	25 Aug 2020	Wind Dir	NW
S4	25 Aug 2020	Animal Life	120 Godwits; 6 Seagulls
S4	25 Aug 2020	Floatables	None
S4	25 Aug 2020	Water Color	Green

Station	Date	Parameter	Value
S4	25 Aug 2020	Current Direction	S
S4	25 Aug 2020	Water Temp (C)	22.1
S4	25 Aug 2020	Wave Height Low (ft)	3
S4	25 Aug 2020	High Tide (ft)	3.4
S4	25 Aug 2020	High Tide Time	306
S4	25 Aug 2020	Low Tide (ft)	2
S4	25 Aug 2020	Low Tide Time	824
S4	25 Aug 2020	Comments	Kelp; Seagrass; Water clear
S5	04 Aug 2020	Arrive Time	751
S5	04 Aug 2020	Weather	Drizzle
S5	04 Aug 2020	Wind Speed (kts)	4
S5	04 Aug 2020	Wind Dir	W
S5	04 Aug 2020	Animal Life	2 Godwits; 1 Seal
S5	04 Aug 2020	Floatables	Film
S5	04 Aug 2020	Water Color	Green
S5	04 Aug 2020	Current Direction	N
S5	04 Aug 2020	Water Temp (C)	19.8
S5	04 Aug 2020	Wave Height Low (ft)	0.5
S5	04 Aug 2020	High Tide (ft)	4.2
S5	04 Aug 2020	High Tide Time	1058
S5	04 Aug 2020	Low Tide (ft)	-0.7
S5	04 Aug 2020	Low Tide Time	443
S5	04 Aug 2020	Comments	Kelp; Seagrass; Debris; Water clear
S5	06 Aug 2020	Arrive Time	830
S5	06 Aug 2020	Weather	Cloudy
S5	06 Aug 2020	Wind Speed (kts)	2.5
S5	06 Aug 2020	Wind Dir	W
S5	06 Aug 2020	Animal Life	None
S5	06 Aug 2020	Floatables	None
S5	06 Aug 2020	Water Color	Green
S5	06 Aug 2020	Current Direction	S
S5	06 Aug 2020	Water Temp (C)	18.9
S5	06 Aug 2020	Wave Height Low (ft)	2
S5	06 Aug 2020	High Tide (ft)	4.3
S5	06 Aug 2020	High Tide Time	1201
S5	06 Aug 2020	Low Tide (ft)	-0.1
S5	06 Aug 2020	Low Tide Time	546
S5	06 Aug 2020	Comments	Resample; Kelp; Seagrass; Debris; 1 Person; Water clear
S5	11 Aug 2020	Arrive Time	928
S5	11 Aug 2020	Weather	Overcast
S5	11 Aug 2020	Wind Speed (kts)	4.4
S5	11 Aug 2020	Wind Dir	N
S5	11 Aug 2020	Animal Life	None
S5	11 Aug 2020	Floatables	Foam
S5	11 Aug 2020	Water Color	Green
S5	11 Aug 2020	Current Direction	S
S5	11 Aug 2020	Water Temp (C)	18.2
S5	11 Aug 2020	Wave Height Low (ft)	2
S5	11 Aug 2020	High Tide (ft)	4.4
S5	11 Aug 2020	High Tide Time	1531
S5	11 Aug 2020	Low Tide (ft)	2.2

Station	Date	Parameter	Value
S5	11 Aug 2020	Low Tide Time	828
S5	11 Aug 2020	Comments	Kelp; Seagrass; Algae; Debris; 1 Person; Water clear
S5	18 Aug 2020	Arrive Time	812
S5	18 Aug 2020	Weather	Sunny
S5	18 Aug 2020	Wind Speed (kts)	3.4
S5	18 Aug 2020	Wind Dir	N
S5	18 Aug 2020	Animal Life	2 Dogs; 3 Godwits; 1 Seagull; 6 Terns
S5	18 Aug 2020	Floatables	None
S5	18 Aug 2020	Water Color	Green
S5	18 Aug 2020	Current Direction	S
S5	18 Aug 2020	Water Temp (C)	23.7
S5	18 Aug 2020	Wave Height Low (ft)	3
S5	18 Aug 2020	High Tide (ft)	4.4
S5	18 Aug 2020	High Tide Time	954
S5	18 Aug 2020	Low Tide (ft)	-0.9
S5	18 Aug 2020	Low Tide Time	341
S5	18 Aug 2020	Comments	Kelp; Seagrass; 9 Persons; Water turbid
S5	25 Aug 2020	Arrive Time	906
S5	25 Aug 2020	Weather	Overcast
S5	25 Aug 2020	Wind Speed (kts)	6.4
S5	25 Aug 2020	Wind Dir	NW
S5	25 Aug 2020	Animal Life	1 Dog; 3 Pelicans
S5	25 Aug 2020	Floatables	Foam
S5	25 Aug 2020	Water Color	Green
S5	25 Aug 2020	Current Direction	S
S5	25 Aug 2020	Water Temp (C)	21.9
S5	25 Aug 2020	Wave Height Low (ft)	2
S5	25 Aug 2020	High Tide (ft)	3.4
S5	25 Aug 2020	High Tide Time	306
S5	25 Aug 2020	Low Tide (ft)	2
S5	25 Aug 2020	Low Tide Time	824
S5	25 Aug 2020	Comments	Kelp; Seagrass; Algae; 3 Persons; Water clear
S6	04 Aug 2020	Arrive Time	803
S6	04 Aug 2020	Weather	Foggy
S6	04 Aug 2020	Wind Speed (kts)	5.8
S6	04 Aug 2020	Wind Dir	S
S6	04 Aug 2020	Animal Life	1 Dog; 4 Godwits
S6	04 Aug 2020	Floatables	Foam
S6	04 Aug 2020	Water Color	Green
S6	04 Aug 2020	Current Direction	N
S6	04 Aug 2020	Water Temp (C)	19.3
S6	04 Aug 2020	Wave Height Low (ft)	2
S6	04 Aug 2020	High Tide (ft)	4.2
S6	04 Aug 2020	High Tide Time	1058
S6	04 Aug 2020	Low Tide (ft)	-0.7
S6	04 Aug 2020	Low Tide Time	443
S6	04 Aug 2020	Comments	Kelp; Seagrass; 3 Persons; 7 Surfers; Water clear
S6	06 Aug 2020	Arrive Time	847
S6	06 Aug 2020	Weather	Cloudy
S6	06 Aug 2020	Wind Speed (kts)	3.4
S6	06 Aug 2020	Wind Dir	W

Station	Date	Parameter	Value
S6	06 Aug 2020	Animal Life	1 Dog; 3 Godwits; 1 Seagull
S6	06 Aug 2020	Floatables	None
S6	06 Aug 2020	Water Color	Green
S6	06 Aug 2020	Current Direction	S
S6	06 Aug 2020	Water Temp (C)	19.6
S6	06 Aug 2020	Wave Height Low (ft)	2
S6	06 Aug 2020	High Tide (ft)	4.3
S6	06 Aug 2020	High Tide Time	1201
S6	06 Aug 2020	Low Tide (ft)	-0.1
S6	06 Aug 2020	Low Tide Time	546
S6	06 Aug 2020	Comments	Resample; Kelp; Seagrass; 3 Persons; Water turbid
S6	11 Aug 2020	Arrive Time	946
S6	11 Aug 2020	Weather	Cloudy
S6	11 Aug 2020	Wind Speed (kts)	5.4
S6	11 Aug 2020	Wind Dir	NW
S6	11 Aug 2020	Animal Life	1 Dog; 2 Godwits
S6	11 Aug 2020	Floatables	Foam; Dead Animals
S6	11 Aug 2020	Water Color	Green
S6	11 Aug 2020	Current Direction	S
S6	11 Aug 2020	Water Temp (C)	17.8
S6	11 Aug 2020	Wave Height Low (ft)	3
S6	11 Aug 2020	High Tide (ft)	4.4
S6	11 Aug 2020	High Tide Time	1531
S6	11 Aug 2020	Low Tide (ft)	2.2
S6	11 Aug 2020	Low Tide Time	828
S6	11 Aug 2020	Comments	Kelp; Seagrass; 1 Jogger; 8 Persons; Water clear
S6	18 Aug 2020	Arrive Time	835
S6	18 Aug 2020	Weather	Sunny
S6	18 Aug 2020	Wind Speed (kts)	3.8
S6	18 Aug 2020	Wind Dir	N
S6	18 Aug 2020	Animal Life	1 Dog; 1 Godwit; 5 Terns
S6	18 Aug 2020	Floatables	None
S6	18 Aug 2020	Water Color	Green
S6	18 Aug 2020	Current Direction	S
S6	18 Aug 2020	Water Temp (C)	23.8
S6	18 Aug 2020	Wave Height Low (ft)	3
S6	18 Aug 2020	High Tide (ft)	4.4
S6	18 Aug 2020	High Tide Time	954
S6	18 Aug 2020	Low Tide (ft)	-0.9
S6	18 Aug 2020	Low Tide Time	341
S6	18 Aug 2020	Comments	Seagrass; 8 Persons; 12 Surfers; Water clear
S6	25 Aug 2020	Arrive Time	924
S6	25 Aug 2020	Weather	Overcast
S6	25 Aug 2020	Wind Speed (kts)	7.1
S6	25 Aug 2020	Wind Dir	NW
S6	25 Aug 2020	Animal Life	3 Godwits
S6	25 Aug 2020	Floatables	Foam
S6	25 Aug 2020	Water Color	Green
S6	25 Aug 2020	Current Direction	S
S6	25 Aug 2020	Water Temp (C)	21.8
S6	25 Aug 2020	Wave Height Low (ft)	2
S6	25 Aug 2020	High Tide (ft)	5.2

Station	Date	Parameter	Value
S6	25 Aug 2020	High Tide Time	1508
S6	25 Aug 2020	Low Tide (ft)	2
S6	25 Aug 2020	Low Tide Time	824
S6	25 Aug 2020	Comments	Kelp; Seagrass; Algae; 2 Persons; Water clear
S8	04 Aug 2020	Arrive Time	902
S8	04 Aug 2020	Weather	Overcast
S8	04 Aug 2020	Wind Speed (kts)	4.6
S8	04 Aug 2020	Wind Dir	S
S8	04 Aug 2020	Animal Life	3 Seagulls
S8	04 Aug 2020	Floatables	Foam; Film
S8	04 Aug 2020	Water Color	Green
S8	04 Aug 2020	Current Direction	N
S8	04 Aug 2020	Water Temp (C)	19.8
S8	04 Aug 2020	Wave Height Low (ft)	2
S8	04 Aug 2020	High Tide (ft)	4.2
S8	04 Aug 2020	High Tide Time	1058
S8	04 Aug 2020	Low Tide (ft)	-0.7
S8	04 Aug 2020	Low Tide Time	443
S8	04 Aug 2020	Comments	Kelp; Seagrass; Debris; 4 Persons; 2 Surfers; 1 Fisherman; Water clear
S8	11 Aug 2020	Arrive Time	1030
S8	11 Aug 2020	Weather	Sunny
S8	11 Aug 2020	Wind Speed (kts)	7.9
S8	11 Aug 2020	Wind Dir	NW
S8	11 Aug 2020	Animal Life	10 Seagulls
S8	11 Aug 2020	Floatables	Foam
S8	11 Aug 2020	Water Color	Green
S8	11 Aug 2020	Current Direction	S
S8	11 Aug 2020	Water Temp (C)	20.4
S8	11 Aug 2020	Wave Height Low (ft)	2
S8	11 Aug 2020	High Tide (ft)	4.4
S8	11 Aug 2020	High Tide Time	1531
S8	11 Aug 2020	Low Tide (ft)	2.2
S8	11 Aug 2020	Low Tide Time	828
S8	11 Aug 2020	Comments	Kelp; Seagrass; 2 Joggers; 11 Persons; 2 Surfers; Water clear
S8	18 Aug 2020	Arrive Time	932
S8	18 Aug 2020	Weather	Sunny
S8	18 Aug 2020	Wind Speed (kts)	3.8
S8	18 Aug 2020	Wind Dir	W
S8	18 Aug 2020	Animal Life	1 Pelican; 3 Seagulls; 6 Terns
S8	18 Aug 2020	Floatables	None
S8	18 Aug 2020	Water Color	Green
S8	18 Aug 2020	Current Direction	S
S8	18 Aug 2020	Water Temp (C)	25.1
S8	18 Aug 2020	Wave Height Low (ft)	1
S8	18 Aug 2020	High Tide (ft)	4.4
S8	18 Aug 2020	High Tide Time	954
S8	18 Aug 2020	Low Tide (ft)	1.5
S8	18 Aug 2020	Low Tide Time	1512
S8	18 Aug 2020	Comments	Kelp; Seagrass; 6 Persons; 2 Surfers; Water turbid

Station	Date	Parameter	Value
S8	25 Aug 2020	Arrive Time	1030
S8	25 Aug 2020	Weather	Sunny
S8	25 Aug 2020	Wind Speed (kts)	8.9
S8	25 Aug 2020	Wind Dir	NW
S8	25 Aug 2020	Animal Life	3 Godwits; 11 Seagulls
S8	25 Aug 2020	Floatables	None
S8	25 Aug 2020	Water Color	Brown
S8	25 Aug 2020	Current Direction	S
S8	25 Aug 2020	Water Temp (C)	23
S8	25 Aug 2020	Wave Height Low (ft)	2
S8	25 Aug 2020	High Tide (ft)	5.2
S8	25 Aug 2020	High Tide Time	1508
S8	25 Aug 2020	Low Tide (ft)	2
S8	25 Aug 2020	Low Tide Time	824
S8	25 Aug 2020	Comments	Kelp; Seagrass; Debris; 10 Persons; Water clear
S9	04 Aug 2020	Arrive Time	922
S9	04 Aug 2020	Weather	Overcast
S9	04 Aug 2020	Wind Speed (kts)	3.4
S9	04 Aug 2020	Wind Dir	S
S9	04 Aug 2020	Animal Life	1 Godwit; 3 Seagulls
S9	04 Aug 2020	Floatables	None
S9	04 Aug 2020	Water Color	Green
S9	04 Aug 2020	Current Direction	N
S9	04 Aug 2020	Water Temp (C)	20.2
S9	04 Aug 2020	Wave Height Low (ft)	1
S9	04 Aug 2020	High Tide (ft)	4.2
S9	04 Aug 2020	High Tide Time	1058
S9	04 Aug 2020	Low Tide (ft)	-0.7
S9	04 Aug 2020	Low Tide Time	443
S9	04 Aug 2020	Comments	2 Joggers; 6 Persons; 14 Surfers; 2 Boats; Water clear
S9	11 Aug 2020	Arrive Time	1057
S9	11 Aug 2020	Weather	Sunny
S9	11 Aug 2020	Wind Speed (kts)	9.1
S9	11 Aug 2020	Wind Dir	N
S9	11 Aug 2020	Animal Life	1 Pelican; 3 Seagulls
S9	11 Aug 2020	Floatables	None
S9	11 Aug 2020	Water Color	Green
S9	11 Aug 2020	Current Direction	S
S9	11 Aug 2020	Water Temp (C)	20.2
S9	11 Aug 2020	Wave Height Low (ft)	2
S9	11 Aug 2020	High Tide (ft)	4.4
S9	11 Aug 2020	High Tide Time	1531
S9	11 Aug 2020	Low Tide (ft)	2.2
S9	11 Aug 2020	Low Tide Time	828
S9	11 Aug 2020	Comments	1 Jogger; 17 Persons; 10 Surfers; 3 Swimmers; Water clear
S9	18 Aug 2020	Arrive Time	1007
S9	18 Aug 2020	Weather	Sunny
S9	18 Aug 2020	Wind Speed (kts)	5.2
S9	18 Aug 2020	Wind Dir	N
S9	18 Aug 2020	Animal Life	3 Seagulls
S9	18 Aug 2020	Floatables	None

Station	Date	Parameter	Value
S9	18 Aug 2020	Water Color	Brown
S9	18 Aug 2020	Current Direction	S
S9	18 Aug 2020	Water Temp (C)	25.3
S9	18 Aug 2020	Wave Height Low (ft)	1
S9	18 Aug 2020	High Tide (ft)	4.4
S9	18 Aug 2020	High Tide Time	954
S9	18 Aug 2020	Low Tide (ft)	1.5
S9	18 Aug 2020	Low Tide Time	1512
S9	18 Aug 2020	Comments	Kelp; Seagrass; 1 Jogger; 8 Persons; 14 Surfers; Water turbid
S9	25 Aug 2020	Arrive Time	1059
S9	25 Aug 2020	Weather	Sunny
S9	25 Aug 2020	Wind Speed (kts)	9.9
S9	25 Aug 2020	Wind Dir	NW
S9	25 Aug 2020	Animal Life	3 Seagulls
S9	25 Aug 2020	Floatables	None
S9	25 Aug 2020	Water Color	Green
S9	25 Aug 2020	Current Direction	S
S9	25 Aug 2020	Water Temp (C)	23.9
S9	25 Aug 2020	Wave Height Low (ft)	1
S9	25 Aug 2020	High Tide (ft)	5.2
S9	25 Aug 2020	High Tide Time	1508
S9	25 Aug 2020	Low Tide (ft)	2
S9	25 Aug 2020	Low Tide Time	824
S9	25 Aug 2020	Comments	Kelp; 3 Joggers; 2 Persons; Water clear
S10	04 Aug 2020	Arrive Time	708
S10	04 Aug 2020	Weather	Foggy
S10	04 Aug 2020	Wind Speed (kts)	5
S10	04 Aug 2020	Wind Dir	S
S10	04 Aug 2020	Animal Life	40 Godwits; 2 Pelicans
S10	04 Aug 2020	Floatables	Dead Animals; Sanitary Napkins
S10	04 Aug 2020	Water Color	Green
S10	04 Aug 2020	Current Direction	N
S10	04 Aug 2020	Water Temp (C)	19.1
S10	04 Aug 2020	Wave Height Low (ft)	1
S10	04 Aug 2020	High Tide (ft)	4.2
S10	04 Aug 2020	High Tide Time	1058
S10	04 Aug 2020	Low Tide (ft)	-0.7
S10	04 Aug 2020	Low Tide Time	443
S10	04 Aug 2020	Comments	Kelp; Seagrass; Debris; Water clear
S10	06 Aug 2020	Arrive Time	941
S10	06 Aug 2020	Weather	Sunny
S10	06 Aug 2020	Wind Speed (kts)	3.4
S10	06 Aug 2020	Wind Dir	W
S10	06 Aug 2020	Animal Life	2 Godwits; 3 Plovers
S10	06 Aug 2020	Floatables	Foam
S10	06 Aug 2020	Water Color	Green
S10	06 Aug 2020	Current Direction	S
S10	06 Aug 2020	Water Temp (C)	19.3
S10	06 Aug 2020	Wave Height Low (ft)	1
S10	06 Aug 2020	High Tide (ft)	4.3
S10	06 Aug 2020	High Tide Time	1201

Station	Date	Parameter	Value
S10	06 Aug 2020	Low Tide (ft)	-0.1
S10	06 Aug 2020	Low Tide Time	546
S10	06 Aug 2020	Comments	Resample; Kelp; Seagrass; Debris; Water clear
S10	11 Aug 2020	Arrive Time	817
S10	11 Aug 2020	Weather	Overcast
S10	11 Aug 2020	Wind Speed (kts)	5
S10	11 Aug 2020	Wind Dir	NW
S10	11 Aug 2020	Animal Life	2 Godwits
S10	11 Aug 2020	Floatables	Foam
S10	11 Aug 2020	Water Color	Green
S10	11 Aug 2020	Current Direction	S
S10	11 Aug 2020	Water Temp (C)	17
S10	11 Aug 2020	Wave Height Low (ft)	3
S10	11 Aug 2020	High Tide (ft)	3
S10	11 Aug 2020	High Tide Time	309
S10	11 Aug 2020	Low Tide (ft)	2.2
S10	11 Aug 2020	Low Tide Time	828
S10	11 Aug 2020	Comments	Kelp; Seagrass; 3 Persons; Water clear
S10	18 Aug 2020	Arrive Time	720
S10	18 Aug 2020	Weather	Hazy
S10	18 Aug 2020	Wind Speed (kts)	0.7
S10	18 Aug 2020	Wind Dir	E
S10	18 Aug 2020	Animal Life	10 Godwits
S10	18 Aug 2020	Floatables	Foam
S10	18 Aug 2020	Water Color	Blue
S10	18 Aug 2020	Current Direction	S
S10	18 Aug 2020	Water Temp (C)	23.3
S10	18 Aug 2020	Wave Height Low (ft)	2
S10	18 Aug 2020	High Tide (ft)	4.4
S10	18 Aug 2020	High Tide Time	954
S10	18 Aug 2020	Low Tide (ft)	-0.9
S10	18 Aug 2020	Low Tide Time	341
S10	18 Aug 2020	Comments	Water turbid
S10	25 Aug 2020	Arrive Time	824
S10	25 Aug 2020	Weather	Overcast
S10	25 Aug 2020	Wind Speed (kts)	5.2
S10	25 Aug 2020	Wind Dir	N
S10	25 Aug 2020	Animal Life	1 Godwit
S10	25 Aug 2020	Floatables	Foam
S10	25 Aug 2020	Water Color	Green
S10	25 Aug 2020	Current Direction	S
S10	25 Aug 2020	Water Temp (C)	21.7
S10	25 Aug 2020	Wave Height Low (ft)	2
S10	25 Aug 2020	High Tide (ft)	3.4
S10	25 Aug 2020	High Tide Time	306
S10	25 Aug 2020	Low Tide (ft)	2
S10	25 Aug 2020	Low Tide Time	824
S10	25 Aug 2020	Comments	Kelp; Seagrass; Water clear
S11	04 Aug 2020	Arrive Time	757
S11	04 Aug 2020	Weather	Foggy
S11	04 Aug 2020	Wind Speed (kts)	5.4

Station	Date	Parameter	Value
S11	04 Aug 2020	Wind Dir	S
S11	04 Aug 2020	Animal Life	1 Dog; 9 Godwits; 1 Egret
S11	04 Aug 2020	Floatables	Foam
S11	04 Aug 2020	Water Color	Green
S11	04 Aug 2020	Current Direction	N
S11	04 Aug 2020	Water Temp (C)	19.3
S11	04 Aug 2020	Wave Height Low (ft)	1
S11	04 Aug 2020	High Tide (ft)	4.2
S11	04 Aug 2020	High Tide Time	1058
S11	04 Aug 2020	Low Tide (ft)	-0.7
S11	04 Aug 2020	Low Tide Time	443
S11	04 Aug 2020	Comments	Kelp; Seagrass; 4 Persons; Water clear
S11	06 Aug 2020	Arrive Time	839
S11	06 Aug 2020	Weather	Cloudy
S11	06 Aug 2020	Wind Speed (kts)	2.5
S11	06 Aug 2020	Wind Dir	W
S11	06 Aug 2020	Animal Life	3 Godwits
S11	06 Aug 2020	Floatables	None
S11	06 Aug 2020	Water Color	Brown
S11	06 Aug 2020	Current Direction	S
S11	06 Aug 2020	Water Temp (C)	19.5
S11	06 Aug 2020	Wave Height Low (ft)	2
S11	06 Aug 2020	High Tide (ft)	4.3
S11	06 Aug 2020	High Tide Time	1201
S11	06 Aug 2020	Low Tide (ft)	-0.1
S11	06 Aug 2020	Low Tide Time	546
S11	06 Aug 2020	Comments	Resample; Kelp; Seagrass; 2 Joggers; Water turbid
S11	11 Aug 2020	Arrive Time	937
S11	11 Aug 2020	Weather	Cloudy
S11	11 Aug 2020	Wind Speed (kts)	5.4
S11	11 Aug 2020	Wind Dir	NW
S11	11 Aug 2020	Animal Life	1 Dog; 5 Godwits; 5 Pelicans
S11	11 Aug 2020	Floatables	Foam
S11	11 Aug 2020	Water Color	Brown
S11	11 Aug 2020	Current Direction	N
S11	11 Aug 2020	Water Temp (C)	17.8
S11	11 Aug 2020	Wave Height Low (ft)	3
S11	11 Aug 2020	High Tide (ft)	4.4
S11	11 Aug 2020	High Tide Time	1531
S11	11 Aug 2020	Low Tide (ft)	2.2
S11	11 Aug 2020	Low Tide Time	828
S11	11 Aug 2020	Comments	Kelp; Seagrass; 3 Persons; Water clear
S11	18 Aug 2020	Arrive Time	825
S11	18 Aug 2020	Weather	Sunny
S11	18 Aug 2020	Wind Speed (kts)	2.9
S11	18 Aug 2020	Wind Dir	N
S11	18 Aug 2020	Animal Life	3 Dogs; 2 Terns
S11	18 Aug 2020	Floatables	Foam
S11	18 Aug 2020	Water Color	Green
S11	18 Aug 2020	Current Direction	S
S11	18 Aug 2020	Water Temp (C)	24.4
S11	18 Aug 2020	Wave Height Low (ft)	1

Station	Date	Parameter	Value
S11	18 Aug 2020	High Tide (ft)	4.4
	18 Aug 2020	High Tide Time	954
	18 Aug 2020	Low Tide (ft)	-0.9
	18 Aug 2020	Low Tide Time	341
	18 Aug 2020	Comments	Kelp; Seagrass; 6 Persons; Water turbid
	25 Aug 2020	Arrive Time	915
	25 Aug 2020	Weather	Overcast
	25 Aug 2020	Wind Speed (kts)	7.7
	25 Aug 2020	Wind Dir	NW
	25 Aug 2020	Animal Life	3 Dogs; 5 Godwits
S11	25 Aug 2020	Floatables	Foam
	25 Aug 2020	Water Color	Green
	25 Aug 2020	Current Direction	S
	25 Aug 2020	Water Temp (C)	21.4
	25 Aug 2020	Wave Height Low (ft)	2
	25 Aug 2020	High Tide (ft)	5.2
	25 Aug 2020	High Tide Time	1508
	25 Aug 2020	Low Tide (ft)	2
	25 Aug 2020	Low Tide Time	824
	25 Aug 2020	Comments	Kelp; Seagrass; Algae; 2 Joggers; 2 Persons; Water clear
S12	04 Aug 2020	Arrive Time	817
	04 Aug 2020	Weather	Foggy
	04 Aug 2020	Wind Speed (kts)	7.1
	04 Aug 2020	Wind Dir	S
	04 Aug 2020	Animal Life	1 Cormorant; 1 Dog; 19 Godwits; 3 Pelicans; 3 Seagulls
	04 Aug 2020	Floatables	Foam
	04 Aug 2020	Water Color	Green
	04 Aug 2020	Current Direction	N
	04 Aug 2020	Water Temp (C)	19.9
	04 Aug 2020	Wave Height Low (ft)	1
S12	04 Aug 2020	High Tide (ft)	4.2
	04 Aug 2020	High Tide Time	1058
	04 Aug 2020	Low Tide (ft)	-0.7
	04 Aug 2020	Low Tide Time	443
	04 Aug 2020	Comments	Kelp; Seagrass; 11 Persons; Water clear
	11 Aug 2020	Arrive Time	1003
	11 Aug 2020	Weather	Partly Cloudy
	11 Aug 2020	Wind Speed (kts)	6.9
	11 Aug 2020	Wind Dir	W
	11 Aug 2020	Animal Life	3 Dogs; 5 Godwits
S12	11 Aug 2020	Floatables	Foam
	11 Aug 2020	Water Color	Green
	11 Aug 2020	Current Direction	S
	11 Aug 2020	Water Temp (C)	19.7
	11 Aug 2020	Wave Height Low (ft)	2
	11 Aug 2020	High Tide (ft)	4.4
	11 Aug 2020	High Tide Time	1531
	11 Aug 2020	Low Tide (ft)	2.2
	11 Aug 2020	Low Tide Time	828
	11 Aug 2020	Comments	Kelp; Seagrass; 1 Jogger; 9 Persons; 4 Fishermen; Water clear

Station	Date	Parameter	Value
S12	18 Aug 2020	Arrive Time	904
S12	18 Aug 2020	Weather	Sunny
S12	18 Aug 2020	Wind Speed (kts)	3.1
S12	18 Aug 2020	Wind Dir	W
S12	18 Aug 2020	Animal Life	2 Dogs; 3 Godwits; 12 Terns
S12	18 Aug 2020	Floatables	None
S12	18 Aug 2020	Water Color	Green
S12	18 Aug 2020	Current Direction	S
S12	18 Aug 2020	Water Temp (C)	24.4
S12	18 Aug 2020	Wave Height Low (ft)	24.4
S12	18 Aug 2020	High Tide (ft)	4.4
S12	18 Aug 2020	High Tide Time	954
S12	18 Aug 2020	Low Tide (ft)	-0.9
S12	18 Aug 2020	Low Tide Time	341
S12	18 Aug 2020	Comments	Kelp; Seagrass; 4 Persons; Water clear
S12	20 Aug 2020	Arrive Time	711
S12	20 Aug 2020	Weather	Hazy
S12	20 Aug 2020	Wind Speed (kts)	0.7
S12	20 Aug 2020	Wind Dir	N
S12	20 Aug 2020	Animal Life	Resample; 2 Dogs; 3 Godwits; 6 Pelicans; 3 Seagulls; 4 Terns
S12	20 Aug 2020	Floatables	None
S12	20 Aug 2020	Water Color	Grey
S12	20 Aug 2020	Current Direction	N
S12	20 Aug 2020	Water Temp (C)	23.2
S12	20 Aug 2020	Wave Height Low (ft)	1
S12	20 Aug 2020	High Tide (ft)	4.9
S12	20 Aug 2020	High Tide Time	1103
S12	20 Aug 2020	Low Tide (ft)	-0.8
S12	20 Aug 2020	Low Tide Time	451
S12	20 Aug 2020	Comments	Resample; Kelp; 2 Joggers; 6 Persons; Water clear
S12	25 Aug 2020	Arrive Time	946
S12	25 Aug 2020	Weather	Partly Cloudy
S12	25 Aug 2020	Wind Speed (kts)	5
S12	25 Aug 2020	Wind Dir	NW
S12	25 Aug 2020	Animal Life	2 Dogs; 7 Godwits
S12	25 Aug 2020	Floatables	None
S12	25 Aug 2020	Water Color	Green
S12	25 Aug 2020	Current Direction	S
S12	25 Aug 2020	Water Temp (C)	23.1
S12	25 Aug 2020	Wave Height Low (ft)	2
S12	25 Aug 2020	High Tide (ft)	5.2
S12	25 Aug 2020	High Tide Time	1508
S12	25 Aug 2020	Low Tide (ft)	2
S12	25 Aug 2020	Low Tide Time	824
S12	25 Aug 2020	Comments	Kelp; Seagrass; Algae; 1 Jogger; 16 Persons; 1 Fisherman; 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 Aug 2020	58*	41*	10*	7*	21*	3*	193*
02 Aug 2020	58*	41*	10*	7*	21*	3*	193*
03 Aug 2020	58*	41*	10*	7*	21*	3*	193*
04 Aug 2020	154	101	34	23	21	5	451
05 Aug 2020	323*	148*	49*	30*	12*	6*	548*
06 Aug 2020	323*	148*	49*	30*	12*	6*	548*
07 Aug 2020	323*	148*	49*	30*	12*	6*	548*
08 Aug 2020	323*	148*	49*	30*	12*	6*	548*
09 Aug 2020	323*	148*	49*	30*	12*	6*	548*
10 Aug 2020	323*	148*	49*	30*	12*	6*	548*
11 Aug 2020	117	63	26	17	9	5	178
12 Aug 2020	95*	63*	22*	21*	9*	6*	240*
13 Aug 2020	95*	63*	22*	21*	9*	6*	240*
14 Aug 2020	95*	63*	22*	21*	9*	6*	240*
15 Aug 2020	95*	63*	22*	21*	9*	6*	240*
16 Aug 2020	95*	63*	22*	21*	9*	6*	240*
17 Aug 2020	58	31	14	13	7	5	131
18 Aug 2020	58	31	14	13	7	5	131
19 Aug 2020	58	31	14	13	7	5	131
20 Aug 2020	76*	13*	14*	13*	4*	4*	114*
21 Aug 2020	76*	13*	14*	13*	4*	4*	114*
22 Aug 2020	76*	13*	14*	13*	4*	4*	114*
23 Aug 2020	76*	13*	14*	13*	4*	4*	114*
24 Aug 2020	76*	13*	14*	13*	4*	4*	114*
25 Aug 2020	76*	13*	14*	13*	4*	4*	114*
26 Aug 2020	76*	13*	14*	13*	4*	4*	114*
27 Aug 2020	22*	13*	14*	13*	4*	4*	50*
28 Aug 2020	22*	13*	14*	13*	4*	4*	50*
29 Aug 2020	22*	13*	14*	13*	4*	4*	50*
30 Aug 2020	22*	13*	14*	13*	4*	4*	50*
31 Aug 2020	14	12	9	9	4	4	34

\* 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 Aug 2020	8*	10*	3*	2*	4*	2*	27*
02 Aug 2020	8*	10*	3*	2*	4*	2*	27*
03 Aug 2020	8*	10*	3*	2*	4*	2*	27*
04 Aug 2020	28	25	8	6	4	2	76
05 Aug 2020	55*	42*	11*	9*	2*	2*	100*
06 Aug 2020	55*	42*	11*	9*	2*	2*	100*
07 Aug 2020	55*	42*	11*	9*	2*	2*	100*
08 Aug 2020	55*	42*	11*	9*	2*	2*	100*
09 Aug 2020	55*	42*	11*	9*	2*	2*	100*
10 Aug 2020	55*	42*	11*	9*	2*	2*	100*
11 Aug 2020	28	23	8	6	2	2	46
12 Aug 2020	25*	27*	9*	8*	2*	2*	68*
13 Aug 2020	25*	27*	9*	8*	2*	2*	68*
14 Aug 2020	25*	27*	9*	8*	2*	2*	68*
15 Aug 2020	25*	27*	9*	8*	2*	2*	68*
16 Aug 2020	25*	27*	9*	8*	2*	2*	68*
17 Aug 2020	15	16	7	6	2	2	50
18 Aug 2020	15	16	7	6	2	2	50
19 Aug 2020	15	16	7	6	2	2	50
20 Aug 2020	23*	9*	9*	8*	3*	2*	49*
21 Aug 2020	23*	9*	9*	8*	3*	2*	49*
22 Aug 2020	23*	9*	9*	8*	3*	2*	49*
23 Aug 2020	23*	9*	9*	8*	3*	2*	49*
24 Aug 2020	23*	9*	9*	8*	3*	2*	49*
25 Aug 2020	23*	9*	9*	8*	3*	2*	49*
26 Aug 2020	23*	9*	9*	8*	3*	2*	49*
27 Aug 2020	13*	9*	9*	8*	3*	2*	23*
28 Aug 2020	13*	9*	9*	8*	3*	2*	23*
29 Aug 2020	13*	9*	9*	8*	3*	2*	23*
30 Aug 2020	13*	9*	9*	8*	3*	2*	23*
31 Aug 2020	9	7	7	6	2	2	14

\* 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 Aug 2020	11*	13*	4*	2*	5*	2*	33*
02 Aug 2020	11*	13*	4*	2*	5*	2*	33*
03 Aug 2020	11*	13*	4*	2*	5*	2*	33*
04 Aug 2020	27	23	9	5	4	2	64
05 Aug 2020	52*	37*	13*	5*	2*	2*	71*
06 Aug 2020	52*	37*	13*	5*	2*	2*	71*
07 Aug 2020	52*	37*	13*	5*	2*	2*	71*
08 Aug 2020	52*	37*	13*	5*	2*	2*	71*
09 Aug 2020	52*	37*	13*	5*	2*	2*	71*
10 Aug 2020	52*	37*	13*	5*	2*	2*	71*
11 Aug 2020	27	21	9	4	2	2	35
12 Aug 2020	24*	25*	10*	5*	2*	2*	47*
13 Aug 2020	24*	25*	10*	5*	2*	2*	47*
14 Aug 2020	24*	25*	10*	5*	2*	2*	47*
15 Aug 2020	24*	25*	10*	5*	2*	2*	47*
16 Aug 2020	24*	25*	10*	5*	2*	2*	47*
17 Aug 2020	14	15	7	4	2	2	25
18 Aug 2020	14	15	7	4	2	2	25
19 Aug 2020	14	15	7	4	2	2	25
20 Aug 2020	20*	7*	7*	5*	2*	2*	17*
21 Aug 2020	20*	7*	7*	5*	2*	2*	17*
22 Aug 2020	20*	7*	7*	5*	2*	2*	17*
23 Aug 2020	20*	7*	7*	5*	2*	2*	17*
24 Aug 2020	20*	7*	7*	5*	2*	2*	17*
25 Aug 2020	20*	7*	7*	5*	2*	2*	17*
26 Aug 2020	20*	7*	7*	5*	2*	2*	17*
27 Aug 2020	9*	7*	7*	5*	2*	2*	9*
28 Aug 2020	9*	7*	7*	5*	2*	2*	9*
29 Aug 2020	9*	7*	7*	5*	2*	2*	9*
30 Aug 2020	9*	7*	7*	5*	2*	2*	9*
31 Aug 2020	7	5	5	4	2	2	7

\* 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
04 Aug 2020	E	IC	IC	IC	IC	IC	E
11 Aug 2020	IC						
17 Aug 2020	IC						
27 Aug 2020	IC						
31 Aug 2020	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
04 Aug 2020	E	E	E	E	IC	IC	E
11 Aug 2020	IC						
17 Aug 2020	IC						
27 Aug 2020	IC						
31 Aug 2020	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
04 Aug 2020	E	E	E	IC	IC	IC	E
11 Aug 2020	IC						
17 Aug 2020	IC						
27 Aug 2020	IC						
31 Aug 2020	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
04 Aug 2020	E	E	E	E	IC	IC	E
11 Aug 2020	IC						
17 Aug 2020	IC						
27 Aug 2020	IC						
31 Aug 2020	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	04 Aug 2020	1119	2	900	560	90	0.62	17.7	75.16	8.6	33.59	8.2
I19	04 Aug 2020	1119	6	6000	820	320e	0.14	17.2	71.41	8.5	33.53	8.2
I19	04 Aug 2020	1119	11	>16000	9800	2200e	0.61	16.9	67.69	8.4	33.50	8.2
I19	11 Aug 2020	1131	2	<2	<2	<2	1.00	15.9	68.32	8.3	33.60	8.2
I19	11 Aug 2020	1131	6	<2	<2	<2	1.00	14.5	64.06	7.6	33.60	8.1
I19	11 Aug 2020	1131	11	2e	<2	<2	1.00	14.3	70.70	6.5	33.59	8.0
I19	17 Aug 2020	1011	2	<2	<2	<2	1.00	21.5	87.88	7.7	33.68	8.2
I19	17 Aug 2020	1011	6	<2	<2	<2	1.00	21.3	86.69	7.7	33.68	8.2
I19	17 Aug 2020	1011	11	<20	<2	<2	0.10	19.6	83.06	6.9	33.62	8.2
I19	27 Aug 2020	1112	2	<2	<2	<2	1.00	14.9	77.07	7.0	33.52	8.0
I19	27 Aug 2020	1112	6	<2	<2	<2	1.00	13.6	81.51	7.3	33.46	8.0
I19	27 Aug 2020	1112	11	<2	<2	2e	1.00	13.4	75.20	7.2	33.45	8.0
I19	31 Aug 2020	1013	2	<2	2e	<2	1.00	17.5	78.25	7.9	33.49	8.1
I19	31 Aug 2020	1013	6	<2	<2	<2	1.00	14.6	83.07	8.7	33.45	8.1
I19	31 Aug 2020	1013	11	<2	<2	<2	1.00	13.7	76.13	8.7	33.47	8.1
I24	04 Aug 2020	1145	2	40	10e	<2	0.25	18.2	78.80	8.5	33.59	8.2
I24	04 Aug 2020	1145	6	6400	2200e	560	0.34	17.5	67.18	8.9	33.57	8.2
I24	04 Aug 2020	1145	11	4200	660	140e	0.16	15.0	68.64	8.9	33.57	8.2
I24	11 Aug 2020	1153	2	<2	<2	<2	1.00	16.9	70.96	8.1	33.63	8.2
I24	11 Aug 2020	1153	6	<2	<2	<2	1.00	14.2	71.43	7.4	33.60	8.1
I24	11 Aug 2020	1153	11	<2	<2	<2	1.00	13.8	77.73	5.7	33.60	8.0
I24	17 Aug 2020	1032	2	<2	<2	<2	1.00	21.6	87.05	7.6	33.69	8.2
I24	17 Aug 2020	1032	6	<2	<2	<2	1.00	21.2	85.91	7.6	33.68	8.2
I24	17 Aug 2020	1032	11	<2	<2	2e	1.00	19.5	83.20	8.0	33.66	8.2
I24	27 Aug 2020	1148	2	<2	<2	<2	1.00	19.1	84.54	8.5	33.52	8.2
I24	27 Aug 2020	1148	6	<2	<2	<2	1.00	16.9	83.56	7.6	33.55	8.1
I24	27 Aug 2020	1148	11	<2	<2	<2	1.00	14.2	77.88	7.2	33.46	8.0
I24	31 Aug 2020	1033	2	<2	<2	<2	1.00	18.0	83.44	8.2	33.50	8.1
I24	31 Aug 2020	1033	6	<2	<2	<2	1.00	17.7	83.39	8.2	33.49	8.1
I24	31 Aug 2020	1033	11	<20	4e	<2	0.20	13.4	70.60	6.8	33.47	8.0
I25	04 Aug 2020	1154	2	220e	18e	14e	0.08	18.1	79.83	8.5	33.59	8.2
I25	04 Aug 2020	1154	6	9000	2000e	580	0.22	17.4	68.08	8.8	33.57	8.2
I25	04 Aug 2020	1154	9	4000	820	140e	0.20	15.4	68.47	8.8	33.58	8.2
I25	11 Aug 2020	1203	2	<2	<2	<2	1.00	17.1	69.94	8.3	33.62	8.2
I25	11 Aug 2020	1203	6	<2	<2	<2	1.00	14.3	77.81	6.0	33.62	8.0
I25	11 Aug 2020	1203	9	<2	<2	<2	1.00	14.3	78.31	5.7	33.59	8.0
I25	17 Aug 2020	1040	2	<2	<2	<2	1.00	21.4	87.24	7.8	33.69	8.2
I25	17 Aug 2020	1040	6	<2	<2	<2	1.00	21.1	88.14	8.0	33.69	8.2
I25	17 Aug 2020	1040	9	<2	<2	<2	1.00	19.3	85.47	8.2	33.67	8.2

Station	Date	Time	Depth	Total	Fecal	Enter	F:T	Temp	XMS	DO	Sal	pH
I25	27 Aug 2020	1157	2	<2	<2	<2	1.00	18.9	84.12	8.5	33.53	8.2
I25	27 Aug 2020	1157	6	<2	<2	<2	1.00	17.4	82.87	7.8	33.55	8.1
I25	27 Aug 2020	1157	9	<2	<2	<2	1.00	15.2	81.16	7.6	33.44	8.0
I25	31 Aug 2020	1039	2	<2	<2	<2	1.00	18.2	83.22	8.2	33.51	8.1
I25	31 Aug 2020	1039	6	2e	<2	<2	1.00	17.7	83.04	8.2	33.49	8.1
I25	31 Aug 2020	1039	9	<2	2e	<2	1.00	13.6	82.25	7.6	33.46	8.0
I26	04 Aug 2020	1204	2	1000	240e	82	0.24	18.2	75.28	8.7	33.58	8.2
I26	04 Aug 2020	1204	6	4800	800e	100e	0.17	17.4	72.80	8.6	33.59	8.2
I26	04 Aug 2020	1204	9	4000	540	100e	0.14	16.6	73.52	8.6	33.60	8.2
I26	11 Aug 2020	1214	2	<2	<2	<2	1.00	18.0	72.03	8.5	33.58	8.2
I26	11 Aug 2020	1214	6	2e	2e	<2	1.00	14.8	63.14	8.8	33.59	8.2
I26	11 Aug 2020	1214	9	<2	2e	<2	1.00	14.3	80.75	6.4	33.60	8.0
I26	17 Aug 2020	1052	2	<2	<2	<2	1.00	21.6	88.19	7.8	33.69	8.2
I26	17 Aug 2020	1052	6	<2	<2	<2	1.00	20.9	87.74	8.1	33.68	8.2
I26	17 Aug 2020	1052	9	2e	<2	<2	1.00	18.6	81.04	8.8	33.64	8.2
I26	27 Aug 2020	1212	2	<2	<2	<2	1.00	18.8	83.72	8.7	33.54	8.2
I26	27 Aug 2020	1212	6	<2	<2	<2	1.00	16.4	83.65	7.9	33.54	8.1
I26	27 Aug 2020	1212	9	<2	<2	<2	1.00	13.6	83.16	7.4	33.45	8.0
I26	31 Aug 2020	1047	2	<2	<2	<2	1.00	17.9	82.90	8.2	33.49	8.1
I26	31 Aug 2020	1047	6	<2	<2	<2	1.00	17.6	83.24	8.2	33.50	8.1
I26	31 Aug 2020	1047	9	<2	<2	<2	1.00	14.0	83.32	8.1	33.46	8.1
I32	04 Aug 2020	1217	2	<20	6e	<2	0.30	18.7	66.45	7.7	33.48	8.2
I32	04 Aug 2020	1217	6	<20	4e	2e	0.20	17.9	74.90	8.5	33.59	8.2
I32	04 Aug 2020	1217	9	20e	2e	2e	0.10	17.8	73.25	8.5	33.59	8.2
I32	11 Aug 2020	1228	2	<2	<2	<2	1.00	17.6	73.31	8.2	33.56	8.2
I32	11 Aug 2020	1228	6	<2	<2	<2	1.00	14.3	72.80	6.9	33.68	8.1
I32	11 Aug 2020	1228	9	2e	<2	<2	1.00	14.0	74.43	6.4	33.60	8.0
I32	17 Aug 2020	1104	2	<2	<2	<2	1.00	21.4	86.23	7.8	33.68	8.2
I32	17 Aug 2020	1104	6	<2	<2	<2	1.00	20.8	85.17	8.0	33.67	8.2
I32	17 Aug 2020	1104	9	6e	4e	<2	0.67	18.4	80.76	7.7	33.63	8.2
I32	27 Aug 2020	1226	2	<2	<2	<2	1.00	16.9	84.12	7.6	33.51	8.0
I32	27 Aug 2020	1226	6	<2	<2	<2	1.00	14.1	80.04	7.2	33.49	8.0
I32	27 Aug 2020	1226	9	<2	<2	<2	1.00	13.6	79.91	7.1	33.47	8.0
I32	31 Aug 2020	1059	2	<2	2e	<2	1.00	17.9	75.38	8.2	33.50	8.1
I32	31 Aug 2020	1059	6	<2	2e	<2	1.00	16.0	73.92	8.3	33.48	8.1
I32	31 Aug 2020	1059	9	2e	<2	<2	1.00	14.6	73.61	8.1	33.47	8.1
I39	04 Aug 2020	1119	2	<2	<2	2e	1.00	17.7	87.30	7.3	33.58	8.2
I39	04 Aug 2020	1119	12	40e	8e	4e	0.20	13.3	70.32	8.1	33.66	8.1
I39	04 Aug 2020	1119	18	60e	2e	<2	0.03	12.8	75.87	7.6	33.66	8.1
I39	11 Aug 2020	1108	2	<2	<2	<2	1.00	18.3	77.39	8.9	33.60	8.3
I39	11 Aug 2020	1108	12	<2	<2	<2	1.00	14.1	73.67	7.3	33.59	8.1
I39	11 Aug 2020	1108	18	<2	2e	<2	1.00	12.8	85.99	5.3	33.62	7.9
I39	17 Aug 2020	952	2	<2	<2	<2	1.00	21.9	88.16	7.7	33.72	8.2
I39	17 Aug 2020	952	12	<2	<2	<2	1.00	18.0	83.14	9.1	33.63	8.3
I39	17 Aug 2020	952	18	4e	<2	<2	0.50	15.9	73.65	8.1	33.61	8.2
I39	27 Aug 2020	1046	2	2e	<2	<2	1.00	19.1	84.08	8.7	33.52	8.2

Station	Date	Time	Depth	Total	Fecal	Enter	F:T	Temp	XMS	DO	Sal	pH
I39	27 Aug 2020	1046	12	2e	<2	<2	1.00	15.2	85.18	8.0	33.46	8.1
I39	27 Aug 2020	1046	18	<2	<2	<2	1.00	12.7	89.14	6.5	33.52	7.9
I39	31 Aug 2020	952	2	<2	<2	<2	1.00	18.6	83.39	8.3	33.51	8.1
I39	31 Aug 2020	952	12	2e	<2	<2	1.00	13.5	83.51	8.1	33.44	8.1
I39	31 Aug 2020	952	18	2e	2e	<2	1.00	13.1	85.75	7.3	33.47	8.0
I40	04 Aug 2020	1134	2	8400	960	140e	0.11	18.2	75.91	8.4	33.59	8.2
I40	04 Aug 2020	1134	6	>16000	4800	1100	0.30	18.0	72.75	8.5	33.55	8.2
I40	04 Aug 2020	1134	9	>16000	8400	1400e	0.52	17.8	70.23	8.3	33.53	8.2
I40	11 Aug 2020	1144	2	<2	<2	<2	1.00	16.6	72.13	7.4	33.58	8.1
I40	11 Aug 2020	1144	6	<2	<2	<2	1.00	14.5	62.91	7.6	33.59	8.1
I40	11 Aug 2020	1144	9	<2	<2	<2	1.00	14.4	64.93	7.5	33.59	8.1
I40	17 Aug 2020	1023	2	30e	40	<2	1.33	21.3	82.39	7.7	33.64	8.2
I40	17 Aug 2020	1023	6	<2	<2	<2	1.00	20.9	79.29	7.8	33.64	8.2
I40	17 Aug 2020	1023	9	2e	<2	<2	1.00	19.9	75.58	7.3	33.62	8.2
I40	27 Aug 2020	1133	2	<20	<2	<2	0.10	15.5	69.03	7.2	33.56	8.0
I40	27 Aug 2020	1133	6	<20	<2	<2	0.10	14.7	82.72	7.1	33.53	8.0
I40	27 Aug 2020	1133	9	<20	<2	<2	0.10	13.5	77.90	7.1	33.46	8.0
I40	31 Aug 2020	1024	2	<2	<2	<2	1.00	18.0	79.58	8.1	33.50	8.1
I40	31 Aug 2020	1024	6	<2	<2	<2	1.00	14.7	77.77	8.4	33.49	8.1
I40	31 Aug 2020	1024	9	<20	<2	<2	0.10	13.5	71.02	7.8	33.45	8.0

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	04 Aug 2020	Depth (m)	11
I19	04 Aug 2020	Arrive Time	1119
I19	04 Aug 2020	Depart Time	1125
I19	04 Aug 2020	Air Temp (C)	18
I19	04 Aug 2020	Weather	Continuous layer of clouds
I19	04 Aug 2020	Visibility (mi)	5
I19	04 Aug 2020	Wind Speed (kts)	7
I19	04 Aug 2020	Wind Dir	S
I19	04 Aug 2020	Water Color	Greenish-Brown
I19	04 Aug 2020	Wave Ht Low (ft)	2
I19	04 Aug 2020	Wave Period (sec)	9
I19	04 Aug 2020	Sea State	Light chop
I19	04 Aug 2020	High Tide (ft)	4.23
I19	04 Aug 2020	High Tide Time	1058
I19	04 Aug 2020	Low Tide (ft)	-0.71
I19	04 Aug 2020	Low Tide Time	443
I19	04 Aug 2020	Comments	none
I19	11 Aug 2020	Depth (m)	10
I19	11 Aug 2020	Arrive Time	1131
I19	11 Aug 2020	Depart Time	1136
I19	11 Aug 2020	Air Temp (C)	18
I19	11 Aug 2020	Weather	Overcast
I19	11 Aug 2020	Visibility (mi)	8
I19	11 Aug 2020	Wind Speed (kts)	7
I19	11 Aug 2020	Wind Dir	W
I19	11 Aug 2020	Water Color	Green
I19	11 Aug 2020	Wave Ht Low (ft)	3
I19	11 Aug 2020	Wave Period (sec)	13
I19	11 Aug 2020	Sea State	Calm
I19	11 Aug 2020	High Tide (ft)	4.38
I19	11 Aug 2020	High Tide Time	1531
I19	11 Aug 2020	Low Tide (ft)	2.2
I19	11 Aug 2020	Low Tide Time	828
I19	11 Aug 2020	Comments	none
I19	17 Aug 2020	Depth (m)	9
I19	17 Aug 2020	Arrive Time	1011
I19	17 Aug 2020	Depart Time	1015
I19	17 Aug 2020	Air Temp (C)	21
I19	17 Aug 2020	Weather	Cloudy
I19	17 Aug 2020	Visibility (mi)	3
I19	17 Aug 2020	Wind Speed (kts)	8
I19	17 Aug 2020	Wind Dir	E
I19	17 Aug 2020	Water Color	Greenish-Blue
I19	17 Aug 2020	Wave Ht Low (ft)	2
I19	17 Aug 2020	Wave Period (sec)	9
I19	17 Aug 2020	Sea State	Calm
I19	17 Aug 2020	High Tide (ft)	4.16
I19	17 Aug 2020	High Tide Time	923
I19	17 Aug 2020	Low Tide (ft)	1.82
I19	17 Aug 2020	Low Tide Time	1430
I19	17 Aug 2020	Comments	none
I19	27 Aug 2020	Depth (m)	9
I19	27 Aug 2020	Arrive Time	1112

Station	Date	Parameter	Value
I19	27 Aug 2020	Depart Time	1118
I19	27 Aug 2020	Air Temp (C)	20
I19	27 Aug 2020	Weather	Haze
I19	27 Aug 2020	Visibility (mi)	< 1
I19	27 Aug 2020	Wind Speed (kts)	4
I19	27 Aug 2020	Wind Dir	W
I19	27 Aug 2020	Water Color	Green
I19	27 Aug 2020	Wave Ht Low (ft)	2
I19	27 Aug 2020	Wave Period (sec)	11
I19	27 Aug 2020	Sea State	Calm
I19	27 Aug 2020	High Tide (ft)	3.48
I19	27 Aug 2020	High Tide Time	654
I19	27 Aug 2020	Low Tide (ft)	2.62
I19	27 Aug 2020	Low Tide Time	1117
I19	27 Aug 2020	Comments	none
I19	31 Aug 2020	Depth (m)	11
I19	31 Aug 2020	Arrive Time	1013
I19	31 Aug 2020	Depart Time	1017
I19	31 Aug 2020	Air Temp (C)	19
I19	31 Aug 2020	Weather	Cloudy
I19	31 Aug 2020	Visibility (mi)	7
I19	31 Aug 2020	Wind Speed (kts)	4
I19	31 Aug 2020	Wind Dir	SW
I19	31 Aug 2020	Water Color	Green
I19	31 Aug 2020	Wave Ht Low (ft)	2
I19	31 Aug 2020	Wave Period (sec)	13
I19	31 Aug 2020	Sea State	Calm
I19	31 Aug 2020	High Tide (ft)	4.47
I19	31 Aug 2020	High Tide Time	926
I19	31 Aug 2020	Low Tide (ft)	1.64
I19	31 Aug 2020	Low Tide Time	1450
I19	31 Aug 2020	Comments	none
I24	04 Aug 2020	Depth (m)	11
I24	04 Aug 2020	Arrive Time	1145
I24	04 Aug 2020	Depart Time	1150
I24	04 Aug 2020	Air Temp (C)	18
I24	04 Aug 2020	Weather	Continuous layer of clouds
I24	04 Aug 2020	Visibility (mi)	5
I24	04 Aug 2020	Wind Speed (kts)	7
I24	04 Aug 2020	Wind Dir	S
I24	04 Aug 2020	Water Color	Greenish-Brown
I24	04 Aug 2020	Wave Ht Low (ft)	2
I24	04 Aug 2020	Wave Period (sec)	9
I24	04 Aug 2020	Sea State	Light chop
I24	04 Aug 2020	High Tide (ft)	4.23
I24	04 Aug 2020	High Tide Time	1058
I24	04 Aug 2020	Low Tide (ft)	-0.71
I24	04 Aug 2020	Low Tide Time	443
I24	04 Aug 2020	Comments	none
I24	11 Aug 2020	Depth (m)	11
I24	11 Aug 2020	Arrive Time	1153
I24	11 Aug 2020	Depart Time	1158
I24	11 Aug 2020	Air Temp (C)	18
I24	11 Aug 2020	Weather	Overcast
I24	11 Aug 2020	Visibility (mi)	8
I24	11 Aug 2020	Wind Speed (kts)	7
I24	11 Aug 2020	Wind Dir	W
I24	11 Aug 2020	Water Color	Green

Station	Date	Parameter	Value
I24	11 Aug 2020	Wave Ht Low (ft)	3
I24	11 Aug 2020	Wave Period (sec)	13
I24	11 Aug 2020	Sea State	Calm
I24	11 Aug 2020	High Tide (ft)	4.38
I24	11 Aug 2020	High Tide Time	1531
I24	11 Aug 2020	Low Tide (ft)	2.2
I24	11 Aug 2020	Low Tide Time	828
I24	11 Aug 2020	Comments	none
I24	17 Aug 2020	Depth (m)	10
I24	17 Aug 2020	Arrive Time	1032
I24	17 Aug 2020	Depart Time	1036
I24	17 Aug 2020	Air Temp (C)	22
I24	17 Aug 2020	Weather	Cloudy
I24	17 Aug 2020	Visibility (mi)	3
I24	17 Aug 2020	Wind Speed (kts)	0
I24	17 Aug 2020	Wind Dir	
I24	17 Aug 2020	Water Color	Green
I24	17 Aug 2020	Wave Ht Low (ft)	2
I24	17 Aug 2020	Wave Period (sec)	9
I24	17 Aug 2020	Sea State	Calm
I24	17 Aug 2020	High Tide (ft)	4.16
I24	17 Aug 2020	High Tide Time	923
I24	17 Aug 2020	Low Tide (ft)	1.82
I24	17 Aug 2020	Low Tide Time	1430
I24	17 Aug 2020	Comments	none
I24	27 Aug 2020	Depth (m)	9
I24	27 Aug 2020	Arrive Time	1148
I24	27 Aug 2020	Depart Time	1153
I24	27 Aug 2020	Air Temp (C)	20
I24	27 Aug 2020	Weather	Haze
I24	27 Aug 2020	Visibility (mi)	5
I24	27 Aug 2020	Wind Speed (kts)	6
I24	27 Aug 2020	Wind Dir	SW
I24	27 Aug 2020	Water Color	Green
I24	27 Aug 2020	Wave Ht Low (ft)	2
I24	27 Aug 2020	Wave Period (sec)	11
I24	27 Aug 2020	Sea State	Calm
I24	27 Aug 2020	High Tide (ft)	3.48
I24	27 Aug 2020	High Tide Time	654
I24	27 Aug 2020	Low Tide (ft)	2.62
I24	27 Aug 2020	Low Tide Time	1117
I24	27 Aug 2020	Comments	none
I24	31 Aug 2020	Depth (m)	11
I24	31 Aug 2020	Arrive Time	1033
I24	31 Aug 2020	Depart Time	1036
I24	31 Aug 2020	Air Temp (C)	19
I24	31 Aug 2020	Weather	Cloudy
I24	31 Aug 2020	Visibility (mi)	7
I24	31 Aug 2020	Wind Speed (kts)	0
I24	31 Aug 2020	Wind Dir	
I24	31 Aug 2020	Water Color	Green
I24	31 Aug 2020	Wave Ht Low (ft)	2
I24	31 Aug 2020	Wave Period (sec)	13
I24	31 Aug 2020	Sea State	Calm
I24	31 Aug 2020	High Tide (ft)	4.47
I24	31 Aug 2020	High Tide Time	926
I24	31 Aug 2020	Low Tide (ft)	1.64
I24	31 Aug 2020	Low Tide Time	1450

Station	Date	Parameter	Value
I24	31 Aug 2020	Comments	none
I25	04 Aug 2020	Depth (m)	9
I25	04 Aug 2020	Arrive Time	1154
I25	04 Aug 2020	Depart Time	1159
I25	04 Aug 2020	Air Temp (C)	18
I25	04 Aug 2020	Weather	Continuous layer of clouds
I25	04 Aug 2020	Visibility (mi)	5
I25	04 Aug 2020	Wind Speed (kts)	7
I25	04 Aug 2020	Wind Dir	S
I25	04 Aug 2020	Water Color	Greenish-Brown
I25	04 Aug 2020	Wave Ht Low (ft)	2
I25	04 Aug 2020	Wave Period (sec)	9
I25	04 Aug 2020	Sea State	Light chop
I25	04 Aug 2020	High Tide (ft)	4.23
I25	04 Aug 2020	High Tide Time	1058
I25	04 Aug 2020	Low Tide (ft)	-0.71
I25	04 Aug 2020	Low Tide Time	443
I25	04 Aug 2020	Comments	none
I25	11 Aug 2020	Depth (m)	10
I25	11 Aug 2020	Arrive Time	1203
I25	11 Aug 2020	Depart Time	1205
I25	11 Aug 2020	Air Temp (C)	19
I25	11 Aug 2020	Weather	Overcast
I25	11 Aug 2020	Visibility (mi)	8
I25	11 Aug 2020	Wind Speed (kts)	7
I25	11 Aug 2020	Wind Dir	W
I25	11 Aug 2020	Water Color	Green
I25	11 Aug 2020	Wave Ht Low (ft)	3
I25	11 Aug 2020	Wave Period (sec)	13
I25	11 Aug 2020	Sea State	Calm
I25	11 Aug 2020	High Tide (ft)	4.38
I25	11 Aug 2020	High Tide Time	1531
I25	11 Aug 2020	Low Tide (ft)	2.2
I25	11 Aug 2020	Low Tide Time	828
I25	11 Aug 2020	Comments	none
I25	17 Aug 2020	Depth (m)	9
I25	17 Aug 2020	Arrive Time	1040
I25	17 Aug 2020	Depart Time	1043
I25	17 Aug 2020	Air Temp (C)	21
I25	17 Aug 2020	Weather	Cloudy
I25	17 Aug 2020	Visibility (mi)	3
I25	17 Aug 2020	Wind Speed (kts)	6
I25	17 Aug 2020	Wind Dir	S
I25	17 Aug 2020	Water Color	Green
I25	17 Aug 2020	Wave Ht Low (ft)	2
I25	17 Aug 2020	Wave Period (sec)	9
I25	17 Aug 2020	Sea State	Calm
I25	17 Aug 2020	High Tide (ft)	4.16
I25	17 Aug 2020	High Tide Time	923
I25	17 Aug 2020	Low Tide (ft)	1.82
I25	17 Aug 2020	Low Tide Time	1430
I25	17 Aug 2020	Comments	none
I25	27 Aug 2020	Depth (m)	9
I25	27 Aug 2020	Arrive Time	1157
I25	27 Aug 2020	Depart Time	1201
I25	27 Aug 2020	Air Temp (C)	20
I25	27 Aug 2020	Weather	Haze

Station	Date	Parameter	Value
I25	27 Aug 2020	Visibility (mi)	5
I25	27 Aug 2020	Wind Speed (kts)	12
I25	27 Aug 2020	Wind Dir	SW
I25	27 Aug 2020	Water Color	Green
I25	27 Aug 2020	Wave Ht Low (ft)	2
I25	27 Aug 2020	Wave Period (sec)	11
I25	27 Aug 2020	Sea State	Calm
I25	27 Aug 2020	High Tide (ft)	3.48
I25	27 Aug 2020	High Tide Time	654
I25	27 Aug 2020	Low Tide (ft)	2.62
I25	27 Aug 2020	Low Tide Time	1117
I25	27 Aug 2020	Comments	none
I25	31 Aug 2020	Depth (m)	9
I25	31 Aug 2020	Arrive Time	1039
I25	31 Aug 2020	Depart Time	1040
I25	31 Aug 2020	Air Temp (C)	19
I25	31 Aug 2020	Weather	Cloudy
I25	31 Aug 2020	Visibility (mi)	7
I25	31 Aug 2020	Wind Speed (kts)	2
I25	31 Aug 2020	Wind Dir	W
I25	31 Aug 2020	Water Color	Green
I25	31 Aug 2020	Wave Ht Low (ft)	2
I25	31 Aug 2020	Wave Period (sec)	13
I25	31 Aug 2020	Sea State	Calm
I25	31 Aug 2020	High Tide (ft)	4.47
I25	31 Aug 2020	High Tide Time	926
I25	31 Aug 2020	Low Tide (ft)	1.64
I25	31 Aug 2020	Low Tide Time	1450
I25	31 Aug 2020	Comments	none
I26	04 Aug 2020	Depth (m)	9
I26	04 Aug 2020	Arrive Time	1204
I26	04 Aug 2020	Depart Time	1207
I26	04 Aug 2020	Air Temp (C)	18
I26	04 Aug 2020	Weather	Continuous layer of clouds
I26	04 Aug 2020	Visibility (mi)	5
I26	04 Aug 2020	Wind Speed (kts)	6
I26	04 Aug 2020	Wind Dir	S
I26	04 Aug 2020	Water Color	Greenish-Brown
I26	04 Aug 2020	Wave Ht Low (ft)	2
I26	04 Aug 2020	Wave Period (sec)	9
I26	04 Aug 2020	Sea State	Light chop
I26	04 Aug 2020	High Tide (ft)	4.23
I26	04 Aug 2020	High Tide Time	1058
I26	04 Aug 2020	Low Tide (ft)	-0.71
I26	04 Aug 2020	Low Tide Time	443
I26	04 Aug 2020	Comments	none
I26	11 Aug 2020	Depth (m)	10
I26	11 Aug 2020	Arrive Time	1214
I26	11 Aug 2020	Depart Time	1216
I26	11 Aug 2020	Air Temp (C)	18
I26	11 Aug 2020	Weather	Overcast
I26	11 Aug 2020	Visibility (mi)	8
I26	11 Aug 2020	Wind Speed (kts)	10
I26	11 Aug 2020	Wind Dir	W
I26	11 Aug 2020	Water Color	Green
I26	11 Aug 2020	Wave Ht Low (ft)	3
I26	11 Aug 2020	Wave Period (sec)	13
I26	11 Aug 2020	Sea State	Calm

Station	Date	Parameter	Value
I26	11 Aug 2020	High Tide (ft)	4.38
I26	11 Aug 2020	High Tide Time	1531
I26	11 Aug 2020	Low Tide (ft)	2.2
I26	11 Aug 2020	Low Tide Time	828
I26	11 Aug 2020	Comments	none
I26	17 Aug 2020	Depth (m)	9
I26	17 Aug 2020	Arrive Time	1052
I26	17 Aug 2020	Depart Time	1056
I26	17 Aug 2020	Air Temp (C)	21
I26	17 Aug 2020	Weather	Cloudy
I26	17 Aug 2020	Visibility (mi)	3
I26	17 Aug 2020	Wind Speed (kts)	2
I26	17 Aug 2020	Wind Dir	NW
I26	17 Aug 2020	Water Color	Green
I26	17 Aug 2020	Wave Ht Low (ft)	2
I26	17 Aug 2020	Wave Period (sec)	9
I26	17 Aug 2020	Sea State	Calm
I26	17 Aug 2020	High Tide (ft)	4.16
I26	17 Aug 2020	High Tide Time	923
I26	17 Aug 2020	Low Tide (ft)	1.82
I26	17 Aug 2020	Low Tide Time	1430
I26	17 Aug 2020	Comments	none
I26	27 Aug 2020	Depth (m)	10
I26	27 Aug 2020	Arrive Time	1212
I26	27 Aug 2020	Depart Time	1217
I26	27 Aug 2020	Air Temp (C)	20
I26	27 Aug 2020	Weather	Haze
I26	27 Aug 2020	Visibility (mi)	5
I26	27 Aug 2020	Wind Speed (kts)	11
I26	27 Aug 2020	Wind Dir	W
I26	27 Aug 2020	Water Color	Green
I26	27 Aug 2020	Wave Ht Low (ft)	2
I26	27 Aug 2020	Wave Period (sec)	11
I26	27 Aug 2020	Sea State	Calm
I26	27 Aug 2020	High Tide (ft)	3.48
I26	27 Aug 2020	High Tide Time	654
I26	27 Aug 2020	Low Tide (ft)	2.62
I26	27 Aug 2020	Low Tide Time	1117
I26	27 Aug 2020	Comments	none
I26	31 Aug 2020	Depth (m)	10
I26	31 Aug 2020	Arrive Time	1047
I26	31 Aug 2020	Depart Time	1049
I26	31 Aug 2020	Air Temp (C)	19
I26	31 Aug 2020	Weather	Cloudy
I26	31 Aug 2020	Visibility (mi)	9
I26	31 Aug 2020	Wind Speed (kts)	2
I26	31 Aug 2020	Wind Dir	SW
I26	31 Aug 2020	Water Color	Green
I26	31 Aug 2020	Wave Ht Low (ft)	2
I26	31 Aug 2020	Wave Period (sec)	13
I26	31 Aug 2020	Sea State	Calm
I26	31 Aug 2020	High Tide (ft)	4.47
I26	31 Aug 2020	High Tide Time	926
I26	31 Aug 2020	Low Tide (ft)	1.64
I26	31 Aug 2020	Low Tide Time	1450
I26	31 Aug 2020	Comments	none
I32	04 Aug 2020	Depth (m)	10

Station	Date	Parameter	Value
I32	04 Aug 2020	Arrive Time	1217
I32	04 Aug 2020	Depart Time	1221
I32	04 Aug 2020	Air Temp (C)	18
I32	04 Aug 2020	Weather	Continuous layer of clouds
I32	04 Aug 2020	Visibility (mi)	5
I32	04 Aug 2020	Wind Speed (kts)	10
I32	04 Aug 2020	Wind Dir	SW
I32	04 Aug 2020	Water Color	Greenish-Brown
I32	04 Aug 2020	Wave Ht Low (ft)	2
I32	04 Aug 2020	Wave Period (sec)	9
I32	04 Aug 2020	Sea State	Light chop
I32	04 Aug 2020	High Tide (ft)	4.23
I32	04 Aug 2020	High Tide Time	1058
I32	04 Aug 2020	Low Tide (ft)	-0.71
I32	04 Aug 2020	Low Tide Time	443
I32	04 Aug 2020	Comments	none
I32	11 Aug 2020	Depth (m)	9
I32	11 Aug 2020	Arrive Time	1228
I32	11 Aug 2020	Depart Time	1234
I32	11 Aug 2020	Air Temp (C)	18
I32	11 Aug 2020	Weather	Overcast
I32	11 Aug 2020	Visibility (mi)	8
I32	11 Aug 2020	Wind Speed (kts)	12
I32	11 Aug 2020	Wind Dir	W
I32	11 Aug 2020	Water Color	Green
I32	11 Aug 2020	Wave Ht Low (ft)	3
I32	11 Aug 2020	Wave Period (sec)	13
I32	11 Aug 2020	Sea State	Calm
I32	11 Aug 2020	High Tide (ft)	4.38
I32	11 Aug 2020	High Tide Time	1531
I32	11 Aug 2020	Low Tide (ft)	2.2
I32	11 Aug 2020	Low Tide Time	828
I32	11 Aug 2020	Comments	none
I32	17 Aug 2020	Depth (m)	10
I32	17 Aug 2020	Arrive Time	1104
I32	17 Aug 2020	Depart Time	1108
I32	17 Aug 2020	Air Temp (C)	22
I32	17 Aug 2020	Weather	Cloudy
I32	17 Aug 2020	Visibility (mi)	3
I32	17 Aug 2020	Wind Speed (kts)	4
I32	17 Aug 2020	Wind Dir	N
I32	17 Aug 2020	Water Color	Green
I32	17 Aug 2020	Wave Ht Low (ft)	2
I32	17 Aug 2020	Wave Period (sec)	9
I32	17 Aug 2020	Sea State	Calm
I32	17 Aug 2020	High Tide (ft)	4.16
I32	17 Aug 2020	High Tide Time	923
I32	17 Aug 2020	Low Tide (ft)	1.82
I32	17 Aug 2020	Low Tide Time	1430
I32	17 Aug 2020	Comments	none
I32	27 Aug 2020	Depth (m)	9
I32	27 Aug 2020	Arrive Time	1226
I32	27 Aug 2020	Depart Time	1230
I32	27 Aug 2020	Air Temp (C)	20
I32	27 Aug 2020	Weather	Haze
I32	27 Aug 2020	Visibility (mi)	5
I32	27 Aug 2020	Wind Speed (kts)	11
I32	27 Aug 2020	Wind Dir	SW

Station	Date	Parameter	Value
I32	27 Aug 2020	Water Color	Green
I32	27 Aug 2020	Wave Ht Low (ft)	2
I32	27 Aug 2020	Wave Period (sec)	11
I32	27 Aug 2020	Sea State	Calm
I32	27 Aug 2020	High Tide (ft)	3.48
I32	27 Aug 2020	High Tide Time	654
I32	27 Aug 2020	Low Tide (ft)	2.62
I32	27 Aug 2020	Low Tide Time	1117
I32	27 Aug 2020	Comments	none
I32	31 Aug 2020	Depth (m)	11
I32	31 Aug 2020	Arrive Time	1059
I32	31 Aug 2020	Depart Time	1100
I32	31 Aug 2020	Air Temp (C)	19
I32	31 Aug 2020	Weather	Cloudy
I32	31 Aug 2020	Visibility (mi)	9
I32	31 Aug 2020	Wind Speed (kts)	1
I32	31 Aug 2020	Wind Dir	SW
I32	31 Aug 2020	Water Color	Green
I32	31 Aug 2020	Wave Ht Low (ft)	2
I32	31 Aug 2020	Wave Period (sec)	13
I32	31 Aug 2020	Sea State	Calm
I32	31 Aug 2020	High Tide (ft)	4.47
I32	31 Aug 2020	High Tide Time	926
I32	31 Aug 2020	Low Tide (ft)	1.64
I32	31 Aug 2020	Low Tide Time	1450
I32	31 Aug 2020	Comments	none
I39	04 Aug 2020	Depth (m)	18
I39	04 Aug 2020	Arrive Time	1053
I39	04 Aug 2020	Depart Time	1057
I39	04 Aug 2020	Air Temp (C)	18
I39	04 Aug 2020	Weather	Continuous layer of clouds
I39	04 Aug 2020	Visibility (mi)	5
I39	04 Aug 2020	Wind Speed (kts)	6
I39	04 Aug 2020	Wind Dir	S
I39	04 Aug 2020	Water Color	Greenish-Blue
I39	04 Aug 2020	Wave Ht Low (ft)	2
I39	04 Aug 2020	Wave Period (sec)	9
I39	04 Aug 2020	Sea State	Light chop
I39	04 Aug 2020	High Tide (ft)	4.23
I39	04 Aug 2020	High Tide Time	1058
I39	04 Aug 2020	Low Tide (ft)	-0.71
I39	04 Aug 2020	Low Tide Time	443
I39	04 Aug 2020	Comments	Salinity spike at a depth of 7-8 m due to rapid drop in temp. and associated thermocline; Seen at earlier stations as well
I39	11 Aug 2020	Depth (m)	19
I39	11 Aug 2020	Arrive Time	1108
I39	11 Aug 2020	Depart Time	1115
I39	11 Aug 2020	Air Temp (C)	19
I39	11 Aug 2020	Weather	Overcast
I39	11 Aug 2020	Visibility (mi)	8
I39	11 Aug 2020	Wind Speed (kts)	6
I39	11 Aug 2020	Wind Dir	W
I39	11 Aug 2020	Water Color	Green
I39	11 Aug 2020	Wave Ht Low (ft)	3
I39	11 Aug 2020	Wave Period (sec)	13
I39	11 Aug 2020	Sea State	Calm
I39	11 Aug 2020	High Tide (ft)	4.38
I39	11 Aug 2020	High Tide Time	1531

Station	Date	Parameter	Value
I39	11 Aug 2020	Low Tide (ft)	2.2
I39	11 Aug 2020	Low Tide Time	828
I39	11 Aug 2020	Comments	Boats
I39	17 Aug 2020	Depth (m)	18
I39	17 Aug 2020	Arrive Time	952
I39	17 Aug 2020	Depart Time	956
I39	17 Aug 2020	Air Temp (C)	21
I39	17 Aug 2020	Weather	Cloudy
I39	17 Aug 2020	Visibility (mi)	3
I39	17 Aug 2020	Wind Speed (kts)	7
I39	17 Aug 2020	Wind Dir	SW
I39	17 Aug 2020	Water Color	Greenish-Blue
I39	17 Aug 2020	Wave Ht Low (ft)	2
I39	17 Aug 2020	Wave Period (sec)	9
I39	17 Aug 2020	Sea State	Calm
I39	17 Aug 2020	High Tide (ft)	4.16
I39	17 Aug 2020	High Tide Time	923
I39	17 Aug 2020	Low Tide (ft)	1.82
I39	17 Aug 2020	Low Tide Time	1430
I39	17 Aug 2020	Comments	none
I39	27 Aug 2020	Depth (m)	18
I39	27 Aug 2020	Arrive Time	1046
I39	27 Aug 2020	Depart Time	1050
I39	27 Aug 2020	Air Temp (C)	20
I39	27 Aug 2020	Weather	Haze
I39	27 Aug 2020	Visibility (mi)	< 1
I39	27 Aug 2020	Wind Speed (kts)	11
I39	27 Aug 2020	Wind Dir	SW
I39	27 Aug 2020	Water Color	Green
I39	27 Aug 2020	Wave Ht Low (ft)	2
I39	27 Aug 2020	Wave Period (sec)	11
I39	27 Aug 2020	Sea State	Calm
I39	27 Aug 2020	High Tide (ft)	3.48
I39	27 Aug 2020	High Tide Time	654
I39	27 Aug 2020	Low Tide (ft)	2.62
I39	27 Aug 2020	Low Tide Time	1117
I39	27 Aug 2020	Comments	none
I39	31 Aug 2020	Depth (m)	20
I39	31 Aug 2020	Arrive Time	952
I39	31 Aug 2020	Depart Time	955
I39	31 Aug 2020	Air Temp (C)	19
I39	31 Aug 2020	Weather	Cloudy
I39	31 Aug 2020	Visibility (mi)	6
I39	31 Aug 2020	Wind Speed (kts)	4
I39	31 Aug 2020	Wind Dir	SW
I39	31 Aug 2020	Water Color	Greenish-Blue
I39	31 Aug 2020	Wave Ht Low (ft)	2
I39	31 Aug 2020	Wave Period (sec)	13
I39	31 Aug 2020	Sea State	Calm
I39	31 Aug 2020	High Tide (ft)	4.47
I39	31 Aug 2020	High Tide Time	926
I39	31 Aug 2020	Low Tide (ft)	1.64
I39	31 Aug 2020	Low Tide Time	1450
I39	31 Aug 2020	Comments	none
I40	04 Aug 2020	Depth (m)	10
I40	04 Aug 2020	Arrive Time	1134
I40	04 Aug 2020	Depart Time	1143

Station	Date	Parameter	Value
I40	04 Aug 2020	Air Temp (C)	18
I40	04 Aug 2020	Weather	Continuous layer of clouds
I40	04 Aug 2020	Visibility (mi)	5
I40	04 Aug 2020	Wind Speed (kts)	7
I40	04 Aug 2020	Wind Dir	S
I40	04 Aug 2020	Water Color	Brownish-Green
I40	04 Aug 2020	Wave Ht Low (ft)	2
I40	04 Aug 2020	Wave Period (sec)	9
I40	04 Aug 2020	Sea State	Light chop
I40	04 Aug 2020	High Tide (ft)	4.23
I40	04 Aug 2020	High Tide Time	1058
I40	04 Aug 2020	Low Tide (ft)	-0.71
I40	04 Aug 2020	Low Tide Time	443
I40	04 Aug 2020	Comments	none
I40	11 Aug 2020	Depth (m)	10
I40	11 Aug 2020	Arrive Time	1144
I40	11 Aug 2020	Depart Time	1146
I40	11 Aug 2020	Air Temp (C)	18
I40	11 Aug 2020	Weather	Overcast
I40	11 Aug 2020	Visibility (mi)	8
I40	11 Aug 2020	Wind Speed (kts)	10
I40	11 Aug 2020	Wind Dir	W
I40	11 Aug 2020	Water Color	Green
I40	11 Aug 2020	Wave Ht Low (ft)	3
I40	11 Aug 2020	Wave Period (sec)	13
I40	11 Aug 2020	Sea State	Calm
I40	11 Aug 2020	High Tide (ft)	4.38
I40	11 Aug 2020	High Tide Time	1531
I40	11 Aug 2020	Low Tide (ft)	2.2
I40	11 Aug 2020	Low Tide Time	828
I40	11 Aug 2020	Comments	none
I40	17 Aug 2020	Depth (m)	18
I40	17 Aug 2020	Arrive Time	1023
I40	17 Aug 2020	Depart Time	1027
I40	17 Aug 2020	Air Temp (C)	21
I40	17 Aug 2020	Weather	Cloudy
I40	17 Aug 2020	Visibility (mi)	3
I40	17 Aug 2020	Wind Speed (kts)	1
I40	17 Aug 2020	Wind Dir	NE
I40	17 Aug 2020	Water Color	Green
I40	17 Aug 2020	Wave Ht Low (ft)	2
I40	17 Aug 2020	Wave Period (sec)	9
I40	17 Aug 2020	Sea State	Calm
I40	17 Aug 2020	High Tide (ft)	4.16
I40	17 Aug 2020	High Tide Time	923
I40	17 Aug 2020	Low Tide (ft)	1.82
I40	17 Aug 2020	Low Tide Time	1430
I40	17 Aug 2020	Comments	none
I40	27 Aug 2020	Depth (m)	9
I40	27 Aug 2020	Arrive Time	1133
I40	27 Aug 2020	Depart Time	1142
I40	27 Aug 2020	Air Temp (C)	20
I40	27 Aug 2020	Weather	Haze
I40	27 Aug 2020	Visibility (mi)	5
I40	27 Aug 2020	Wind Speed (kts)	10
I40	27 Aug 2020	Wind Dir	W
I40	27 Aug 2020	Water Color	Green
I40	27 Aug 2020	Wave Ht Low (ft)	2

<b>Station</b>	<b>Date</b>	<b>Parameter</b>	<b>Value</b>
I40	27 Aug 2020	Wave Period (sec)	11
I40	27 Aug 2020	Sea State	Calm
I40	27 Aug 2020	High Tide (ft)	3.48
I40	27 Aug 2020	High Tide Time	654
I40	27 Aug 2020	Low Tide (ft)	2.62
I40	27 Aug 2020	Low Tide Time	1117
I40	27 Aug 2020	Comments	Red tide plume on station; Water otherwise green
I40	31 Aug 2020	Depth (m)	11
I40	31 Aug 2020	Arrive Time	1024
I40	31 Aug 2020	Depart Time	1026
I40	31 Aug 2020	Air Temp (C)	19
I40	31 Aug 2020	Weather	Cloudy
I40	31 Aug 2020	Visibility (mi)	7
I40	31 Aug 2020	Wind Speed (kts)	3
I40	31 Aug 2020	Wind Dir	W
I40	31 Aug 2020	Water Color	Green
I40	31 Aug 2020	Wave Ht Low (ft)	2
I40	31 Aug 2020	Wave Period (sec)	13
I40	31 Aug 2020	Sea State	Calm
I40	31 Aug 2020	High Tide (ft)	4.47
I40	31 Aug 2020	High Tide Time	926
I40	31 Aug 2020	Low Tide (ft)	1.64
I40	31 Aug 2020	Low Tide Time	1450
I40	31 Aug 2020	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	04 Aug 2020	1	17.73	75.18	8.6	33.57	8.2	24.2	2.67
I19	04 Aug 2020	2	17.67	75.16	8.6	33.59	8.2	24.3	2.76
I19	04 Aug 2020	3	17.44	74.50	8.6	33.59	8.2	24.3	2.80
I19	04 Aug 2020	4	17.32	72.45	8.6	33.55	8.2	24.3	2.91
I19	04 Aug 2020	5	17.21	71.58	8.5	33.53	8.2	24.3	3.36
I19	04 Aug 2020	6	17.18	71.41	8.5	33.53	8.2	24.3	3.95
I19	04 Aug 2020	7	17.15	70.62	8.5	33.51	8.2	24.3	4.25
I19	04 Aug 2020	8	17.15	70.36	8.5	33.51	8.2	24.3	4.60
I19	04 Aug 2020	9	17.02	69.17	8.5	33.51	8.2	24.4	4.73
I19	04 Aug 2020	10	16.90	67.69	8.4	33.50	8.2	24.4	4.95
I19	11 Aug 2020	1	16.29	69.68	8.3	33.56	8.2	24.6	1.97
I19	11 Aug 2020	2	15.94	68.32	8.3	33.60	8.2	24.7	1.96
I19	11 Aug 2020	3	15.56	60.85	8.3	33.63	8.2	24.8	2.27
I19	11 Aug 2020	4	14.84	58.42	8.1	33.64	8.2	25.0	3.13
I19	11 Aug 2020	5	14.71	62.41	7.8	33.59	8.2	25.0	5.18
I19	11 Aug 2020	6	14.52	64.06	7.6	33.60	8.1	25.0	7.70
I19	11 Aug 2020	7	14.46	66.74	7.2	33.59	8.1	25.0	9.89
I19	11 Aug 2020	8	14.40	69.24	6.8	33.59	8.1	25.0	11.54
I19	11 Aug 2020	9	14.37	70.79	6.6	33.59	8.1	25.0	11.92
I19	11 Aug 2020	10	14.29	70.70	6.5	33.59	8.0	25.0	10.92
I19	17 Aug 2020	1	21.57	87.80	7.7	33.68	8.2	23.3	0.87
I19	17 Aug 2020	2	21.51	87.88	7.7	33.68	8.2	23.4	0.95
I19	17 Aug 2020	3	21.43	87.77	7.7	33.68	8.2	23.4	1.06
I19	17 Aug 2020	4	21.40	87.41	7.7	33.68	8.2	23.4	1.21
I19	17 Aug 2020	5	21.39	87.08	7.7	33.68	8.2	23.4	1.30
I19	17 Aug 2020	6	21.33	86.69	7.7	33.68	8.2	23.4	1.44
I19	17 Aug 2020	7	21.22	86.52	7.8	33.67	8.2	23.4	1.68
I19	17 Aug 2020	8	21.11	86.19	7.8	33.66	8.2	23.4	2.03
I19	17 Aug 2020	9	21.01	85.07	7.6	33.65	8.2	23.5	2.33
I19	17 Aug 2020	10	19.63	83.06	6.9	33.62	8.2	23.8	3.53
I19	27 Aug 2020	1	15.13	77.62	7.0	33.49	8.0	24.8	1.41
I19	27 Aug 2020	2	14.95	77.07	7.0	33.52	8.0	24.8	1.36
I19	27 Aug 2020	3	14.21	75.53	7.0	33.56	8.0	25.0	1.41
I19	27 Aug 2020	4	13.79	76.17	7.1	33.49	8.0	25.1	1.69
I19	27 Aug 2020	5	13.75	79.54	7.2	33.46	8.0	25.1	1.95
I19	27 Aug 2020	6	13.61	81.51	7.3	33.46	8.0	25.1	2.16
I19	27 Aug 2020	7	13.48	81.81	7.2	33.46	8.0	25.1	2.58
I19	27 Aug 2020	8	13.44	79.89	7.2	33.45	8.0	25.1	2.35
I19	27 Aug 2020	9	13.44	76.45	7.2	33.45	8.0	25.1	2.16
I19	27 Aug 2020	10	13.44	75.20	7.2	33.45	8.0	25.1	2.19
I19	31 Aug 2020	1	18.11	78.30	8.0	33.49	8.1	24.1	1.79
I19	31 Aug 2020	2	17.52	78.25	7.9	33.49	8.1	24.2	2.18
I19	31 Aug 2020	3	16.42	78.17	8.3	33.46	8.1	24.5	2.65
I19	31 Aug 2020	4	15.38	79.45	8.5	33.45	8.1	24.7	2.99
I19	31 Aug 2020	5	14.63	82.38	8.6	33.44	8.1	24.8	3.12
I19	31 Aug 2020	6	14.60	83.07	8.7	33.45	8.1	24.9	3.13
I19	31 Aug 2020	7	14.45	81.70	8.8	33.45	8.1	24.9	3.85
I19	31 Aug 2020	8	14.18	81.09	8.8	33.46	8.1	25.0	5.43
I19	31 Aug 2020	9	13.84	78.51	8.9	33.47	8.1	25.0	7.30
I19	31 Aug 2020	10	13.69	76.13	8.7	33.47	8.1	25.1	8.45
I24	04 Aug 2020	1	18.22	78.83	8.5	33.59	8.2	24.1	2.12

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I24	04 Aug 2020	2	18.22	78.80	8.5	33.59	8.2	24.1	2.13
I24	04 Aug 2020	3	18.14	78.49	8.5	33.60	8.2	24.2	2.16
I24	04 Aug 2020	4	17.95	76.08	8.7	33.61	8.2	24.2	2.69
I24	04 Aug 2020	5	17.68	71.38	8.8	33.59	8.2	24.3	3.77
I24	04 Aug 2020	6	17.49	67.18	8.9	33.57	8.2	24.3	5.89
I24	04 Aug 2020	7	17.28	66.39	8.9	33.55	8.2	24.3	7.86
I24	04 Aug 2020	8	16.59	67.06	8.7	33.64	8.2	24.6	9.00
I24	04 Aug 2020	9	15.47	68.10	8.8	33.60	8.2	24.8	9.49
I24	04 Aug 2020	10	15.06	68.76	8.8	33.60	8.2	24.9	9.59
I24	04 Aug 2020	11	15.04	68.64	8.9	33.57	8.2	24.9	10.11
I24	11 Aug 2020	1	17.11	71.03	8.2	33.58	8.2	24.4	1.61
I24	11 Aug 2020	2	16.93	70.96	8.1	33.63	8.2	24.5	1.62
I24	11 Aug 2020	3	16.07	69.32	7.9	33.69	8.2	24.7	1.64
I24	11 Aug 2020	4	14.54	66.32	7.6	33.78	8.2	25.1	1.84
I24	11 Aug 2020	5	14.30	66.40	7.6	33.62	8.1	25.1	2.74
I24	11 Aug 2020	6	14.17	71.43	7.4	33.60	8.1	25.1	4.41
I24	11 Aug 2020	7	14.16	71.99	6.9	33.60	8.1	25.1	5.83
I24	11 Aug 2020	8	13.91	72.32	6.5	33.62	8.0	25.1	6.78
I24	11 Aug 2020	9	13.85	75.59	6.0	33.60	8.0	25.1	7.21
I24	11 Aug 2020	10	13.85	77.10	5.8	33.60	8.0	25.1	6.78
I24	11 Aug 2020	11	13.84	77.73	5.7	33.60	8.0	25.1	6.05
I24	17 Aug 2020	1	21.67	87.14	7.6	33.68	8.2	23.3	0.87
I24	17 Aug 2020	2	21.62	87.05	7.6	33.69	8.2	23.3	0.91
I24	17 Aug 2020	3	21.53	87.08	7.5	33.69	8.2	23.4	0.94
I24	17 Aug 2020	4	21.50	86.77	7.5	33.69	8.2	23.4	1.01
I24	17 Aug 2020	5	21.35	86.68	7.5	33.69	8.2	23.4	1.14
I24	17 Aug 2020	6	21.20	85.91	7.6	33.68	8.2	23.4	1.36
I24	17 Aug 2020	7	20.98	85.35	7.8	33.68	8.2	23.5	1.47
I24	17 Aug 2020	8	20.87	85.35	7.9	33.67	8.2	23.5	1.54
I24	17 Aug 2020	9	20.42	85.76	8.0	33.70	8.2	23.7	1.63
I24	17 Aug 2020	10	19.65	84.35	8.0	33.67	8.2	23.8	1.83
I24	17 Aug 2020	11	19.51	83.20	8.0	33.66	8.2	23.9	1.82
I24	27 Aug 2020	1	19.10	84.62	8.5	33.52	8.2	23.9	0.77
I24	27 Aug 2020	2	19.07	84.54	8.5	33.52	8.2	23.9	0.79
I24	27 Aug 2020	3	18.78	84.67	8.3	33.54	8.2	24.0	0.86
I24	27 Aug 2020	4	18.02	83.33	8.1	33.54	8.1	24.1	0.98
I24	27 Aug 2020	5	17.93	83.25	7.9	33.54	8.1	24.2	1.03
I24	27 Aug 2020	6	16.89	83.56	7.6	33.55	8.1	24.4	1.09
I24	27 Aug 2020	7	15.53	81.71	7.4	33.55	8.0	24.7	1.66
I24	27 Aug 2020	8	14.99	78.81	7.3	33.52	8.0	24.8	2.81
I24	27 Aug 2020	9	14.51	79.61	7.0	33.49	8.0	24.9	2.64
I24	27 Aug 2020	10	14.00	79.64	7.2	33.46	8.0	25.0	2.25
I24	27 Aug 2020	11	14.24	77.88	7.2	33.46	8.0	24.9	2.20
I24	31 Aug 2020	1	18.20	83.53	8.2	33.50	8.1	24.1	1.09
I24	31 Aug 2020	2	18.04	83.44	8.2	33.50	8.1	24.1	1.22
I24	31 Aug 2020	3	17.97	83.38	8.2	33.50	8.1	24.1	1.35
I24	31 Aug 2020	4	17.91	83.22	8.2	33.49	8.1	24.1	1.43
I24	31 Aug 2020	5	17.82	83.11	8.2	33.49	8.1	24.2	1.40
I24	31 Aug 2020	6	17.69	83.39	8.2	33.49	8.1	24.2	1.65
I24	31 Aug 2020	7	17.00	82.42	8.1	33.49	8.1	24.4	2.33
I24	31 Aug 2020	8	14.40	81.15	8.3	33.51	8.1	24.9	4.30
I24	31 Aug 2020	9	13.89	79.68	8.3	33.44	8.1	25.0	5.20
I24	31 Aug 2020	10	13.57	76.56	7.4	33.47	8.0	25.1	5.16
I24	31 Aug 2020	11	13.36	70.60	6.8	33.47	8.0	25.1	4.73
I25	04 Aug 2020	1	18.15	79.80	8.5	33.58	8.2	24.1	2.05
I25	04 Aug 2020	2	18.15	79.83	8.5	33.59	8.2	24.2	2.02

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I25	04 Aug 2020	3	17.95	78.44	8.7	33.59	8.2	24.2	2.08
I25	04 Aug 2020	4	17.74	74.27	8.7	33.59	8.2	24.3	3.09
I25	04 Aug 2020	5	17.61	70.06	8.8	33.56	8.2	24.3	4.86
I25	04 Aug 2020	6	17.42	68.08	8.8	33.57	8.2	24.3	6.34
I25	04 Aug 2020	7	16.74	67.10	8.7	33.66	8.2	24.5	7.47
I25	04 Aug 2020	8	15.69	67.49	8.8	33.65	8.2	24.8	8.49
I25	04 Aug 2020	9	15.41	68.47	8.8	33.58	8.2	24.8	8.93
I25	11 Aug 2020	1	17.29	65.44	8.3	33.57	8.2	24.4	1.63
I25	11 Aug 2020	2	17.06	69.94	8.3	33.62	8.2	24.4	1.73
I25	11 Aug 2020	3	16.57	66.85	8.2	33.63	8.2	24.6	1.80
I25	11 Aug 2020	4	14.75	64.91	7.5	33.76	8.1	25.1	2.09
I25	11 Aug 2020	5	14.50	74.18	6.5	33.65	8.1	25.0	2.94
I25	11 Aug 2020	6	14.30	77.81	6.0	33.62	8.0	25.1	3.65
I25	11 Aug 2020	7	14.24	77.59	5.8	33.61	8.0	25.1	3.75
I25	11 Aug 2020	8	14.24	78.34	5.7	33.60	8.0	25.1	3.99
I25	11 Aug 2020	9	14.26	78.31	5.7	33.59	8.0	25.0	4.17
I25	17 Aug 2020	1	21.56	87.21	7.7	33.69	8.2	23.3	1.06
I25	17 Aug 2020	2	21.35	87.24	7.8	33.69	8.2	23.4	1.13
I25	17 Aug 2020	3	21.32	87.37	7.8	33.68	8.2	23.4	1.17
I25	17 Aug 2020	4	21.32	87.67	7.9	33.68	8.2	23.4	1.21
I25	17 Aug 2020	5	21.30	87.92	7.9	33.68	8.2	23.4	1.19
I25	17 Aug 2020	6	21.12	88.14	8.0	33.69	8.2	23.5	1.17
I25	17 Aug 2020	7	20.93	87.95	8.0	33.69	8.2	23.5	1.22
I25	17 Aug 2020	8	20.16	87.01	8.1	33.70	8.2	23.7	1.50
I25	17 Aug 2020	9	19.27	85.47	8.2	33.67	8.2	23.9	1.94
I25	27 Aug 2020	1	19.04	78.07	8.5	33.52	8.2	23.9	0.78
I25	27 Aug 2020	2	18.85	84.12	8.5	33.53	8.2	23.9	0.81
I25	27 Aug 2020	3	18.37	83.82	8.4	33.55	8.2	24.1	0.90
I25	27 Aug 2020	4	18.15	83.33	8.3	33.53	8.1	24.1	1.00
I25	27 Aug 2020	5	17.80	83.01	8.1	33.54	8.1	24.2	1.16
I25	27 Aug 2020	6	17.35	82.87	7.8	33.55	8.1	24.3	1.32
I25	27 Aug 2020	7	15.39	82.64	7.5	33.55	8.1	24.8	1.77
I25	27 Aug 2020	8	14.51	80.17	7.5	33.49	8.0	24.9	2.69
I25	27 Aug 2020	9	15.17	81.16	7.6	33.44	8.0	24.7	2.82
I25	31 Aug 2020	1	18.34	83.14	8.2	33.50	8.1	24.0	1.17
I25	31 Aug 2020	2	18.21	83.22	8.2	33.51	8.1	24.1	1.22
I25	31 Aug 2020	3	18.04	83.13	8.2	33.50	8.1	24.1	1.42
I25	31 Aug 2020	4	17.92	82.95	8.2	33.50	8.1	24.1	1.53
I25	31 Aug 2020	5	17.81	82.94	8.2	33.49	8.1	24.2	1.57
I25	31 Aug 2020	6	17.74	83.04	8.2	33.49	8.1	24.2	1.64
I25	31 Aug 2020	7	16.66	83.04	8.1	33.49	8.1	24.4	2.11
I25	31 Aug 2020	8	14.06	82.85	7.9	33.51	8.1	25.0	2.93
I25	31 Aug 2020	9	13.63	82.25	7.6	33.46	8.0	25.1	2.92
I26	04 Aug 2020	1	18.24	75.34	8.7	33.58	8.2	24.1	2.51
I26	04 Aug 2020	2	18.22	75.28	8.7	33.58	8.2	24.1	2.54
I26	04 Aug 2020	3	18.19	75.14	8.6	33.59	8.2	24.1	2.71
I26	04 Aug 2020	4	18.09	74.49	8.6	33.59	8.2	24.2	3.35
I26	04 Aug 2020	5	17.67	73.31	8.6	33.61	8.2	24.3	4.07
I26	04 Aug 2020	6	17.43	72.80	8.6	33.59	8.2	24.3	4.91
I26	04 Aug 2020	7	17.13	72.76	8.5	33.58	8.2	24.4	5.48
I26	04 Aug 2020	8	17.10	73.25	8.6	33.57	8.2	24.4	5.92
I26	04 Aug 2020	9	16.63	73.52	8.6	33.60	8.2	24.5	6.18
I26	11 Aug 2020	1	17.98	70.02	8.5	33.56	8.2	24.2	1.48
I26	11 Aug 2020	2	17.97	72.03	8.5	33.58	8.2	24.2	1.46
I26	11 Aug 2020	3	17.19	69.83	8.5	33.68	8.2	24.5	1.49

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I26	11 Aug 2020	4	15.88	65.67	8.7	33.68	8.2	24.8	1.87
I26	11 Aug 2020	5	15.09	65.08	9.1	33.62	8.2	24.9	2.82
I26	11 Aug 2020	6	14.80	63.14	8.8	33.59	8.2	24.9	3.99
I26	11 Aug 2020	7	14.55	70.03	7.9	33.63	8.2	25.0	5.89
I26	11 Aug 2020	8	14.28	76.50	6.9	33.62	8.1	25.1	7.02
I26	11 Aug 2020	9	14.26	80.75	6.4	33.60	8.0	25.1	6.71
I26	17 Aug 2020	1	21.65	88.24	7.7	33.69	8.2	23.3	0.93
I26	17 Aug 2020	2	21.56	88.19	7.8	33.69	8.2	23.3	0.97
I26	17 Aug 2020	3	21.47	87.97	7.8	33.69	8.2	23.4	1.06
I26	17 Aug 2020	4	21.34	88.10	7.9	33.68	8.2	23.4	1.12
I26	17 Aug 2020	5	21.11	88.24	8.0	33.68	8.2	23.5	1.17
I26	17 Aug 2020	6	20.92	87.74	8.1	33.68	8.2	23.5	1.26
I26	17 Aug 2020	7	20.30	86.67	8.2	33.69	8.2	23.7	1.66
I26	17 Aug 2020	8	19.32	83.94	8.5	33.66	8.2	23.9	2.23
I26	17 Aug 2020	9	18.57	81.04	8.8	33.64	8.2	24.1	2.92
I26	27 Aug 2020	1	18.97	83.36	8.7	33.53	8.2	23.9	0.83
I26	27 Aug 2020	2	18.81	83.72	8.7	33.54	8.2	23.9	0.88
I26	27 Aug 2020	3	18.28	83.21	8.6	33.54	8.2	24.1	1.00
I26	27 Aug 2020	4	18.02	83.01	8.3	33.54	8.1	24.1	1.09
I26	27 Aug 2020	5	17.69	83.39	8.0	33.53	8.1	24.2	1.20
I26	27 Aug 2020	6	16.44	83.65	7.9	33.54	8.1	24.5	1.52
I26	27 Aug 2020	7	14.64	78.69	7.7	33.50	8.1	24.9	2.63
I26	27 Aug 2020	8	13.66	82.67	7.5	33.46	8.0	25.1	2.29
I26	27 Aug 2020	9	13.59	83.16	7.4	33.45	8.0	25.1	1.86
I26	31 Aug 2020	1	17.95	82.93	8.2	33.49	8.1	24.1	1.15
I26	31 Aug 2020	2	17.94	82.90	8.2	33.49	8.1	24.1	1.21
I26	31 Aug 2020	3	18.00	82.86	8.2	33.49	8.1	24.1	1.23
I26	31 Aug 2020	4	17.98	83.20	8.2	33.50	8.1	24.1	1.25
I26	31 Aug 2020	5	17.92	83.47	8.2	33.49	8.1	24.1	1.31
I26	31 Aug 2020	6	17.60	83.24	8.2	33.50	8.1	24.2	1.58
I26	31 Aug 2020	7	17.44	82.57	8.1	33.48	8.1	24.2	1.86
I26	31 Aug 2020	8	15.33	82.81	8.3	33.51	8.1	24.7	2.32
I26	31 Aug 2020	9	14.02	83.32	8.1	33.46	8.1	25.0	2.40
I32	04 Aug 2020	1	18.75	66.48	7.8	33.47	8.2	23.9	2.24
I32	04 Aug 2020	2	18.72	66.45	7.7	33.48	8.2	23.9	2.31
I32	04 Aug 2020	3	18.58	66.95	7.8	33.53	8.2	24.0	2.40
I32	04 Aug 2020	4	18.04	70.33	8.1	33.63	8.2	24.2	2.49
I32	04 Aug 2020	5	17.96	75.31	8.3	33.59	8.2	24.2	2.55
I32	04 Aug 2020	6	17.90	74.90	8.5	33.59	8.2	24.2	2.49
I32	04 Aug 2020	7	17.86	74.08	8.4	33.58	8.2	24.2	2.77
I32	04 Aug 2020	8	17.83	73.57	8.4	33.58	8.2	24.2	3.49
I32	04 Aug 2020	9	17.79	73.25	8.5	33.59	8.2	24.2	4.22
I32	04 Aug 2020	10	17.52	71.51	8.3	33.61	8.2	24.3	4.56
I32	11 Aug 2020	1	17.54	70.76	8.2	33.56	8.2	24.3	1.45
I32	11 Aug 2020	2	17.60	73.31	8.2	33.56	8.2	24.3	1.43
I32	11 Aug 2020	3	17.32	73.72	8.2	33.63	8.2	24.4	1.46
I32	11 Aug 2020	4	16.12	72.38	7.8	33.73	8.2	24.7	1.48
I32	11 Aug 2020	5	15.23	71.44	7.4	33.72	8.1	24.9	1.64
I32	11 Aug 2020	6	14.28	72.80	6.9	33.68	8.1	25.1	1.99
I32	11 Aug 2020	7	14.17	73.53	6.6	33.63	8.1	25.1	2.60
I32	11 Aug 2020	8	14.06	74.74	6.5	33.61	8.1	25.1	3.20
I32	11 Aug 2020	9	14.03	74.43	6.4	33.60	8.0	25.1	3.89
I32	11 Aug 2020	10	14.05	74.71	6.4	33.59	8.0	25.1	4.76
I32	17 Aug 2020	1	21.49	86.17	7.8	33.68	8.2	23.4	0.86
I32	17 Aug 2020	2	21.35	86.23	7.8	33.68	8.2	23.4	1.01

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I32	17 Aug 2020	3	21.16	85.63	7.9	33.67	8.2	23.4	1.37
I32	17 Aug 2020	4	21.03	83.93	8.0	33.67	8.2	23.5	1.49
I32	17 Aug 2020	5	20.94	83.87	8.0	33.67	8.2	23.5	1.38
I32	17 Aug 2020	6	20.79	85.17	8.0	33.67	8.2	23.5	1.45
I32	17 Aug 2020	7	20.41	85.42	7.9	33.66	8.2	23.6	2.00
I32	17 Aug 2020	8	19.44	84.36	7.5	33.66	8.2	23.9	2.86
I32	17 Aug 2020	9	18.41	80.76	7.7	33.63	8.2	24.1	3.68
I32	17 Aug 2020	10	16.97	76.23	8.0	33.61	8.2	24.4	5.63
I32	27 Aug 2020	1	16.91	83.83	7.5	33.50	8.0	24.4	0.69
I32	27 Aug 2020	2	16.91	84.12	7.6	33.51	8.0	24.4	0.69
I32	27 Aug 2020	3	16.71	84.05	7.5	33.53	8.0	24.5	0.70
I32	27 Aug 2020	4	15.89	83.11	7.4	33.54	8.0	24.6	0.78
I32	27 Aug 2020	5	14.60	81.14	7.3	33.58	8.0	25.0	0.97
I32	27 Aug 2020	6	14.11	80.04	7.2	33.49	8.0	25.0	1.53
I32	27 Aug 2020	7	13.78	79.06	7.2	33.48	8.0	25.1	2.08
I32	27 Aug 2020	8	13.63	79.21	7.1	33.48	8.0	25.1	2.37
I32	27 Aug 2020	9	13.57	79.91	7.1	33.47	8.0	25.1	2.25
I32	27 Aug 2020	10	13.58	78.63	7.0	33.47	8.0	25.1	2.16
I32	31 Aug 2020	1	18.05	75.29	8.2	33.49	8.1	24.1	2.14
I32	31 Aug 2020	2	17.91	75.38	8.2	33.50	8.1	24.1	1.91
I32	31 Aug 2020	3	17.57	76.66	8.1	33.51	8.1	24.2	2.33
I32	31 Aug 2020	4	17.23	75.60	8.1	33.50	8.1	24.3	3.74
I32	31 Aug 2020	5	16.27	74.51	8.2	33.52	8.1	24.5	5.30
I32	31 Aug 2020	6	15.96	73.92	8.3	33.48	8.1	24.6	6.68
I32	31 Aug 2020	7	15.45	73.34	8.4	33.49	8.1	24.7	8.03
I32	31 Aug 2020	8	14.87	72.83	8.3	33.48	8.1	24.8	7.68
I32	31 Aug 2020	9	14.57	73.61	8.1	33.47	8.1	24.9	5.98
I32	31 Aug 2020	10	14.14	74.67	7.9	33.48	8.0	25.0	4.75
I39	04 Aug 2020	1	17.71	87.46	7.2	33.52	8.2	24.2	1.75
I39	04 Aug 2020	2	17.70	87.30	7.3	33.58	8.2	24.3	1.84
I39	04 Aug 2020	3	17.64	87.19	7.4	33.61	8.2	24.3	1.92
I39	04 Aug 2020	4	17.60	87.21	7.4	33.61	8.2	24.3	2.14
I39	04 Aug 2020	5	17.52	86.68	7.7	33.65	8.2	24.4	2.11
I39	04 Aug 2020	6	16.85	81.77	7.9	33.77	8.2	24.6	1.81
I39	04 Aug 2020	7	15.47	78.12	8.5	34.11	8.2	25.2	1.57
I39	04 Aug 2020	8	13.82	73.02	8.8	34.01	8.2	25.5	1.45
I39	04 Aug 2020	9	13.52	69.17	8.7	33.83	8.2	25.4	1.73
I39	04 Aug 2020	10	13.43	69.12	8.4	33.73	8.2	25.3	2.55
I39	04 Aug 2020	11	13.38	70.01	8.3	33.69	8.2	25.3	4.83
I39	04 Aug 2020	12	13.31	70.32	8.1	33.66	8.1	25.3	7.17
I39	04 Aug 2020	13	13.25	70.97	8.0	33.65	8.1	25.3	8.61
I39	04 Aug 2020	14	13.20	71.21	8.0	33.63	8.1	25.3	9.11
I39	04 Aug 2020	15	13.18	71.97	7.9	33.63	8.1	25.3	9.24
I39	04 Aug 2020	16	13.15	72.73	7.8	33.62	8.1	25.3	9.37
I39	04 Aug 2020	17	13.07	73.21	7.7	33.63	8.1	25.3	8.63
I39	04 Aug 2020	18	12.75	75.87	7.6	33.66	8.1	25.4	8.72
I39	11 Aug 2020	1	18.39	77.58	8.9	33.59	8.3	24.1	1.03
I39	11 Aug 2020	2	18.32	77.39	8.9	33.60	8.3	24.1	1.04
I39	11 Aug 2020	3	18.20	77.18	8.9	33.60	8.3	24.2	1.09
I39	11 Aug 2020	4	17.98	76.64	8.9	33.62	8.3	24.2	1.33
I39	11 Aug 2020	5	17.03	75.87	9.0	33.69	8.3	24.5	1.64
I39	11 Aug 2020	6	16.14	73.96	9.2	33.68	8.3	24.7	2.14
I39	11 Aug 2020	7	15.03	68.71	9.1	33.65	8.2	24.9	3.14
I39	11 Aug 2020	8	14.61	66.05	8.9	33.58	8.2	25.0	5.64
I39	11 Aug 2020	9	14.58	67.47	8.7	33.57	8.2	25.0	7.90
I39	11 Aug 2020	10	14.56	70.34	8.5	33.58	8.2	25.0	9.48
I39	11 Aug 2020	11	14.17	73.11	8.0	33.62	8.2	25.1	9.77

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I39	11 Aug 2020	12	14.11	73.67	7.3	33.59	8.1	25.1	9.84
I39	11 Aug 2020	13	13.84	74.70	6.9	33.62	8.1	25.2	10.17
I39	11 Aug 2020	14	13.70	80.61	6.5	33.60	8.0	25.2	9.41
I39	11 Aug 2020	15	13.13	81.31	6.2	33.68	8.0	25.3	7.39
I39	11 Aug 2020	16	12.89	82.48	5.7	33.64	8.0	25.4	6.14
I39	11 Aug 2020	17	12.76	85.27	5.4	33.63	7.9	25.4	5.17
I39	11 Aug 2020	18	12.76	85.99	5.3	33.62	7.9	25.4	4.13
I39	17 Aug 2020	1	21.94	88.26	7.7	33.72	8.2	23.3	0.66
I39	17 Aug 2020	2	21.89	88.16	7.7	33.72	8.2	23.3	0.68
I39	17 Aug 2020	3	21.88	88.37	7.7	33.72	8.2	23.3	0.71
I39	17 Aug 2020	4	21.88	88.29	7.7	33.72	8.2	23.3	0.76
I39	17 Aug 2020	5	21.87	88.25	7.7	33.72	8.2	23.3	0.80
I39	17 Aug 2020	6	21.86	88.17	7.7	33.72	8.2	23.3	0.84
I39	17 Aug 2020	7	21.70	87.98	7.8	33.72	8.2	23.3	0.92
I39	17 Aug 2020	8	21.42	87.97	7.9	33.72	8.2	23.4	1.03
I39	17 Aug 2020	9	21.03	87.40	8.1	33.70	8.2	23.5	1.26
I39	17 Aug 2020	10	20.17	87.10	8.5	33.69	8.2	23.7	1.58
I39	17 Aug 2020	11	18.61	86.09	9.1	33.67	8.3	24.1	2.11
I39	17 Aug 2020	12	18.01	83.14	9.1	33.63	8.3	24.2	2.57
I39	17 Aug 2020	13	17.08	80.66	8.9	33.62	8.2	24.4	3.23
I39	17 Aug 2020	14	16.56	77.24	8.8	33.59	8.2	24.5	3.91
I39	17 Aug 2020	15	16.43	74.92	8.8	33.58	8.2	24.6	4.39
I39	17 Aug 2020	16	16.39	73.99	8.7	33.58	8.2	24.6	4.59
I39	17 Aug 2020	17	16.33	73.81	8.7	33.58	8.2	24.6	4.77
I39	17 Aug 2020	18	15.86	73.65	8.1	33.61	8.2	24.7	4.95
I39	27 Aug 2020	1	19.24	84.03	8.7	33.52	8.2	23.8	0.95
I39	27 Aug 2020	2	19.15	84.08	8.7	33.52	8.2	23.8	1.00
I39	27 Aug 2020	3	18.91	83.96	8.6	33.53	8.2	23.9	1.11
I39	27 Aug 2020	4	18.28	83.57	8.3	33.58	8.2	24.1	1.45
I39	27 Aug 2020	5	16.43	82.84	8.2	33.54	8.1	24.5	2.02
I39	27 Aug 2020	6	16.02	83.14	8.1	33.49	8.1	24.6	2.40
I39	27 Aug 2020	7	15.54	83.91	8.1	33.48	8.1	24.7	2.60
I39	27 Aug 2020	8	15.34	84.66	8.1	33.46	8.1	24.7	2.79
I39	27 Aug 2020	9	15.29	85.11	8.0	33.45	8.1	24.7	3.02
I39	27 Aug 2020	10	15.27	85.11	8.0	33.45	8.1	24.7	3.15
I39	27 Aug 2020	11	15.24	85.19	8.0	33.45	8.1	24.7	3.33
I39	27 Aug 2020	12	15.22	85.18	8.0	33.46	8.1	24.7	3.40
I39	27 Aug 2020	13	15.10	85.20	8.0	33.47	8.1	24.8	3.45
I39	27 Aug 2020	14	14.92	85.29	7.9	33.47	8.1	24.8	3.41
I39	27 Aug 2020	15	14.50	85.44	7.6	33.49	8.1	24.9	3.32
I39	27 Aug 2020	16	13.30	86.63	7.1	33.53	8.0	25.2	2.73
I39	27 Aug 2020	17	12.70	88.92	6.7	33.53	8.0	25.3	2.03
I39	27 Aug 2020	18	12.72	89.14	6.5	33.52	7.9	25.3	1.77
I39	31 Aug 2020	1	18.62	83.29	8.3	33.51	8.1	24.0	1.40
I39	31 Aug 2020	2	18.61	83.39	8.3	33.51	8.1	24.0	1.44
I39	31 Aug 2020	3	18.54	83.38	8.2	33.51	8.1	24.0	1.58
I39	31 Aug 2020	4	18.26	83.45	8.3	33.51	8.1	24.1	1.69
I39	31 Aug 2020	5	17.55	83.41	8.5	33.53	8.1	24.3	1.91
I39	31 Aug 2020	6	16.59	83.11	8.8	33.51	8.1	24.5	2.38
I39	31 Aug 2020	7	16.19	82.60	8.8	33.48	8.1	24.5	2.65
I39	31 Aug 2020	8	15.52	82.81	8.7	33.48	8.1	24.7	2.81
I39	31 Aug 2020	9	14.23	83.12	8.6	33.46	8.1	24.9	3.27
I39	31 Aug 2020	10	13.78	84.17	8.5	33.40	8.1	25.0	3.75
I39	31 Aug 2020	11	13.69	84.26	8.3	33.41	8.1	25.0	4.32
I39	31 Aug 2020	12	13.52	83.51	8.1	33.44	8.1	25.1	5.23
I39	31 Aug 2020	13	13.30	80.76	7.7	33.42	8.0	25.1	6.19
I39	31 Aug 2020	14	13.14	81.25	7.6	33.43	8.0	25.1	5.89
I39	31 Aug 2020	15	13.16	83.47	7.5	33.44	8.0	25.2	5.27

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I39	31 Aug 2020	16	13.11	85.13	7.4	33.46	8.0	25.2	4.20
I39	31 Aug 2020	17	13.09	85.61	7.4	33.47	8.0	25.2	3.73
I39	31 Aug 2020	18	13.08	85.75	7.3	33.47	8.0	25.2	3.47
I40	04 Aug 2020	1	18.29	75.94	8.4	33.59	8.2	24.1	2.84
I40	04 Aug 2020	2	18.22	75.91	8.4	33.59	8.2	24.1	2.78
I40	04 Aug 2020	3	18.16	75.12	8.5	33.58	8.2	24.1	2.77
I40	04 Aug 2020	4	18.08	73.51	8.5	33.57	8.2	24.2	3.19
I40	04 Aug 2020	5	18.05	72.94	8.5	33.57	8.2	24.2	3.66
I40	04 Aug 2020	6	17.98	72.75	8.5	33.55	8.2	24.2	4.16
I40	04 Aug 2020	7	17.95	71.63	8.5	33.55	8.2	24.2	4.64
I40	04 Aug 2020	8	17.85	70.82	8.5	33.53	8.2	24.2	5.15
I40	04 Aug 2020	9	17.75	70.23	8.3	33.53	8.2	24.2	5.32
I40	04 Aug 2020	10	16.28	69.22	8.4	33.67	8.2	24.7	5.23
I40	11 Aug 2020	1	16.59	71.76	7.6	33.55	8.1	24.5	1.72
I40	11 Aug 2020	2	16.56	72.13	7.4	33.58	8.1	24.5	1.72
I40	11 Aug 2020	3	15.73	69.95	7.6	33.64	8.2	24.8	1.70
I40	11 Aug 2020	4	14.86	62.14	7.8	33.69	8.2	25.0	2.04
I40	11 Aug 2020	5	14.55	62.09	7.7	33.62	8.2	25.0	2.98
I40	11 Aug 2020	6	14.52	62.91	7.6	33.59	8.1	25.0	6.07
I40	11 Aug 2020	7	14.47	64.30	7.5	33.58	8.1	25.0	9.45
I40	11 Aug 2020	8	14.47	64.41	7.5	33.58	8.1	25.0	12.07
I40	11 Aug 2020	9	14.37	64.93	7.5	33.59	8.1	25.0	13.88
I40	11 Aug 2020	10	14.32	67.63	7.3	33.58	8.1	25.0	14.63
I40	17 Aug 2020	1	21.42	82.34	7.6	33.63	8.2	23.3	1.17
I40	17 Aug 2020	2	21.30	82.39	7.7	33.64	8.2	23.4	1.31
I40	17 Aug 2020	3	21.12	82.21	7.8	33.64	8.2	23.4	1.65
I40	17 Aug 2020	4	21.02	81.73	7.8	33.64	8.2	23.5	1.96
I40	17 Aug 2020	5	20.95	81.15	7.8	33.64	8.2	23.5	2.30
I40	17 Aug 2020	6	20.91	79.29	7.8	33.64	8.2	23.5	2.55
I40	17 Aug 2020	7	20.90	77.95	7.7	33.64	8.2	23.5	2.71
I40	17 Aug 2020	8	20.50	76.73	7.5	33.64	8.2	23.6	3.83
I40	17 Aug 2020	9	19.95	75.58	7.3	33.62	8.2	23.7	4.52
I40	17 Aug 2020	10	18.20	71.79	7.0	33.63	8.2	24.2	4.46
I40	27 Aug 2020	1	16.38	75.36	7.2	33.58	8.0	24.6	1.28
I40	27 Aug 2020	2	15.47	69.03	7.2	33.56	8.0	24.8	2.87
I40	27 Aug 2020	3	15.29	65.28	7.2	33.54	8.0	24.8	3.34
I40	27 Aug 2020	4	15.15	70.37	7.1	33.54	8.0	24.8	3.25
I40	27 Aug 2020	5	14.77	77.80	7.1	33.53	8.0	24.9	2.45
I40	27 Aug 2020	6	14.73	82.72	7.1	33.53	8.0	24.9	2.25
I40	27 Aug 2020	7	14.28	82.17	7.2	33.51	8.0	25.0	3.13
I40	27 Aug 2020	8	13.77	80.60	7.2	33.47	8.0	25.1	3.50
I40	27 Aug 2020	9	13.54	77.90	7.1	33.46	8.0	25.1	2.43
I40	27 Aug 2020	10	13.58	75.52	7.1	33.46	8.0	25.1	2.19
I40	31 Aug 2020	1	18.27	79.27	8.1	33.49	8.1	24.0	1.58
I40	31 Aug 2020	2	18.02	79.58	8.1	33.50	8.1	24.1	1.67
I40	31 Aug 2020	3	17.61	79.62	8.3	33.49	8.1	24.2	2.17
I40	31 Aug 2020	4	17.11	79.55	8.3	33.49	8.1	24.3	2.75
I40	31 Aug 2020	5	15.97	78.59	8.6	33.50	8.1	24.6	3.59
I40	31 Aug 2020	6	14.67	77.77	8.4	33.49	8.1	24.9	6.39
I40	31 Aug 2020	7	13.88	74.49	8.0	33.46	8.0	25.0	8.77
I40	31 Aug 2020	8	13.62	73.60	8.0	33.45	8.1	25.1	9.24
I40	31 Aug 2020	9	13.51	71.02	7.8	33.45	8.0	25.1	10.14
I40	31 Aug 2020	10	13.44	65.45	7.2	33.46	8.0	25.1	8.75

NA = not available

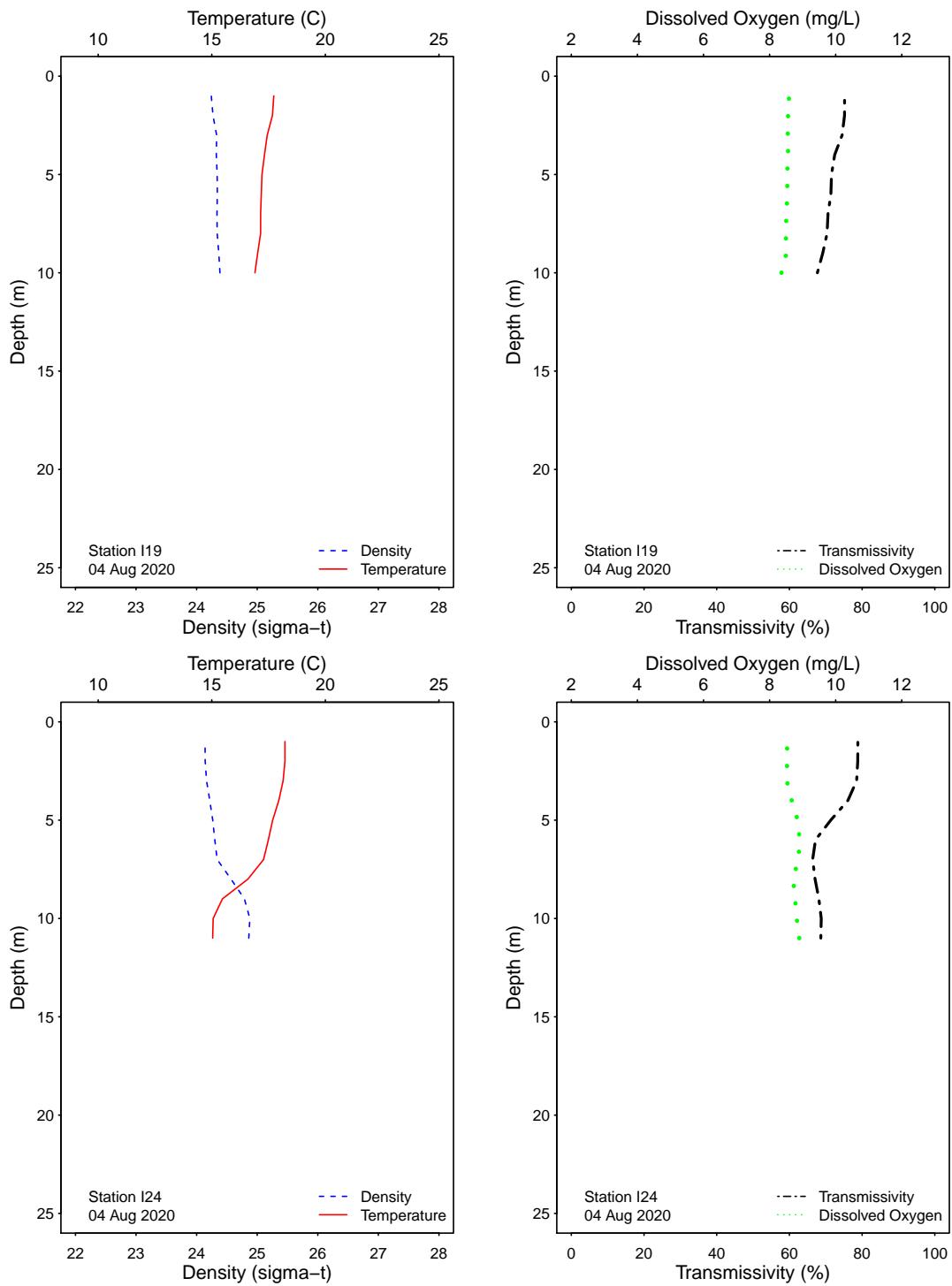


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

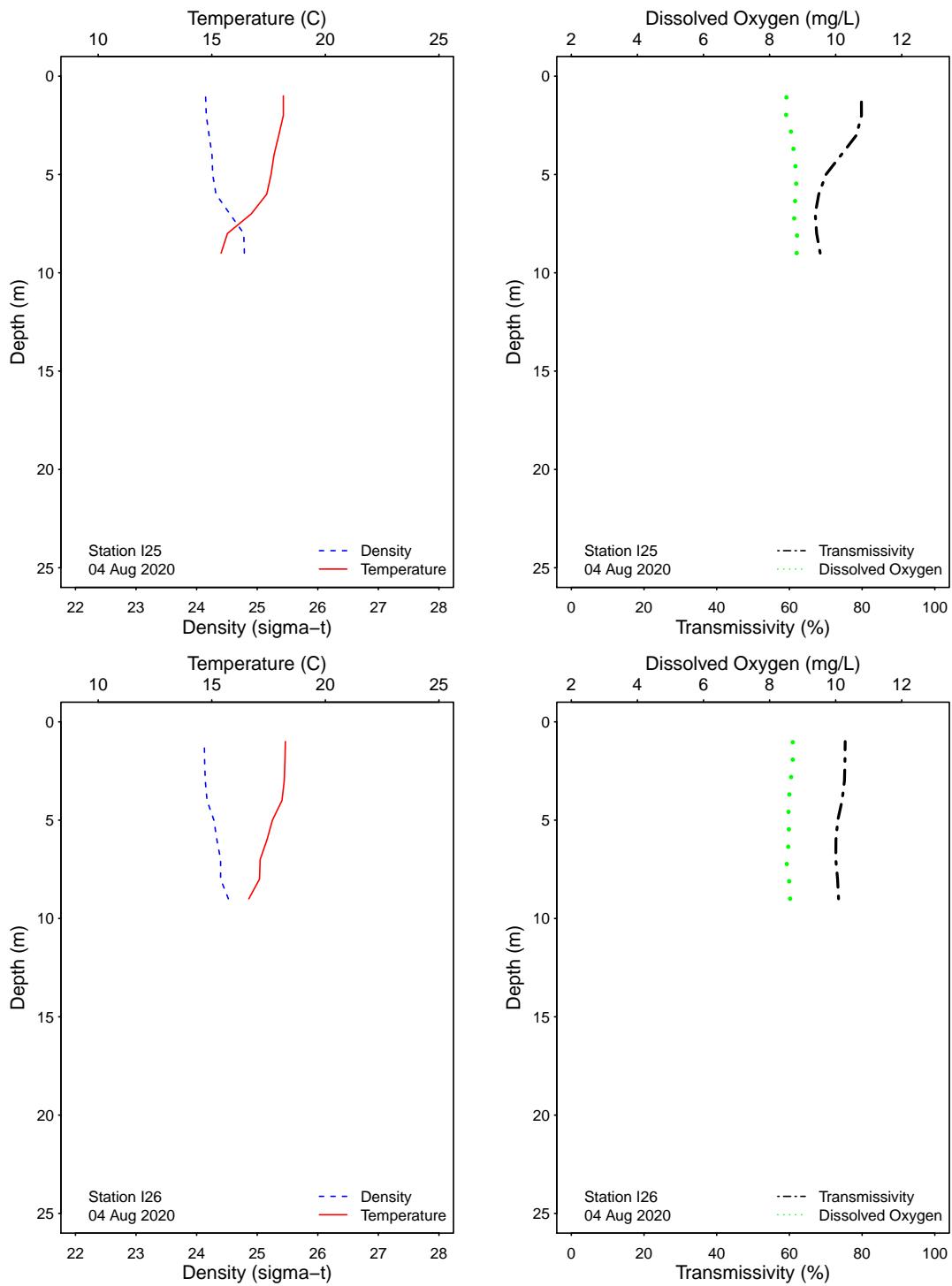


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

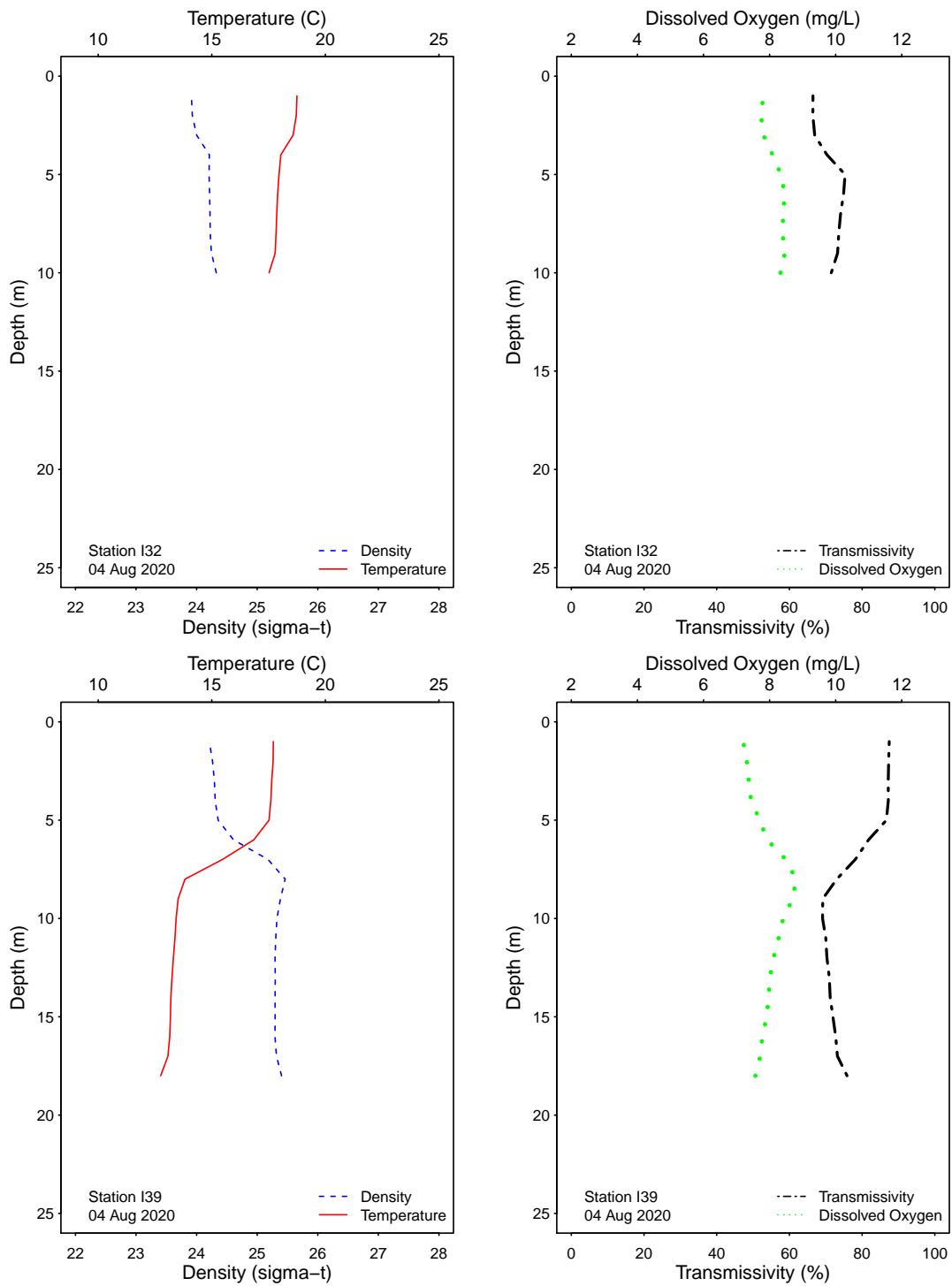


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

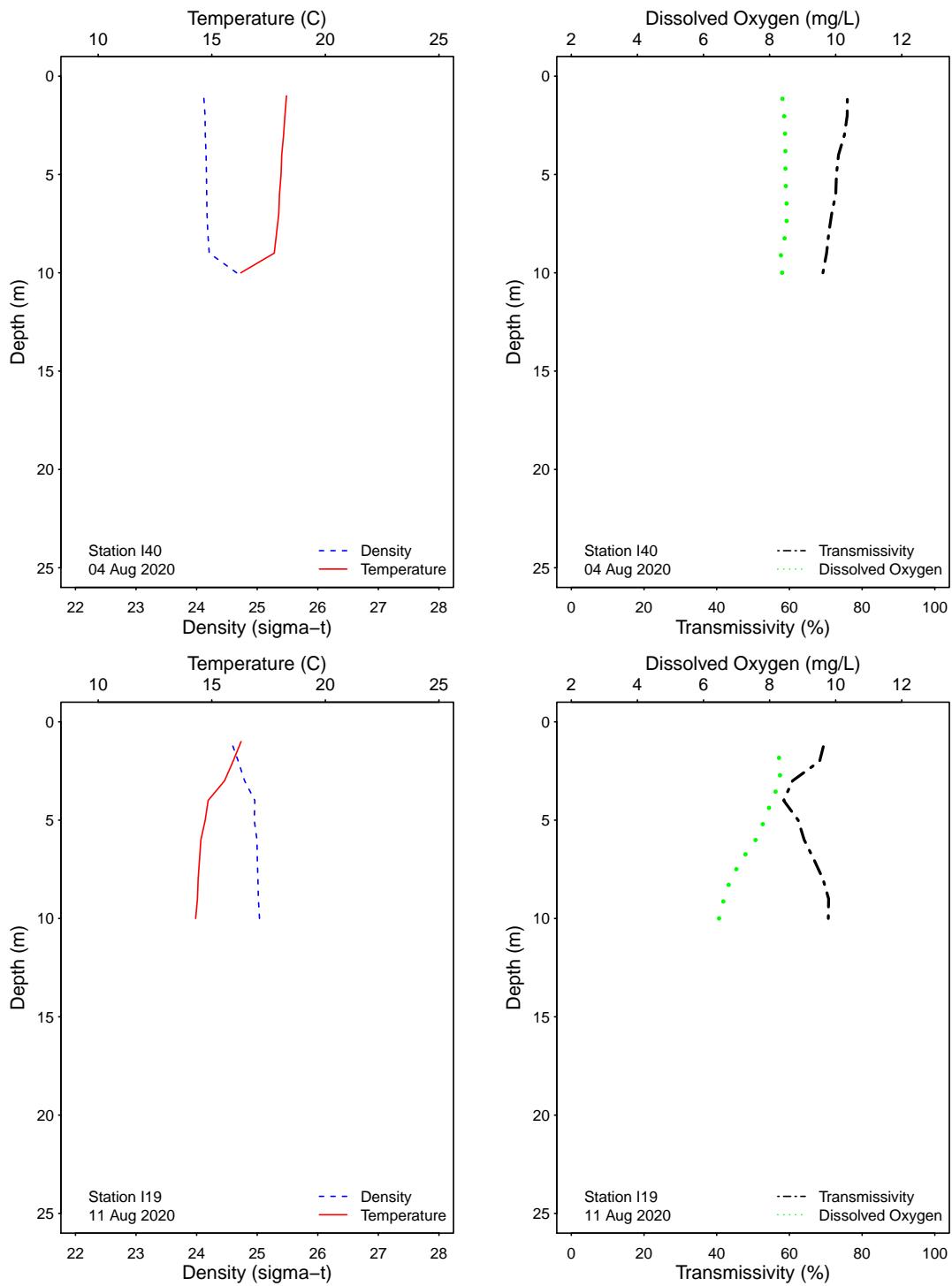


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

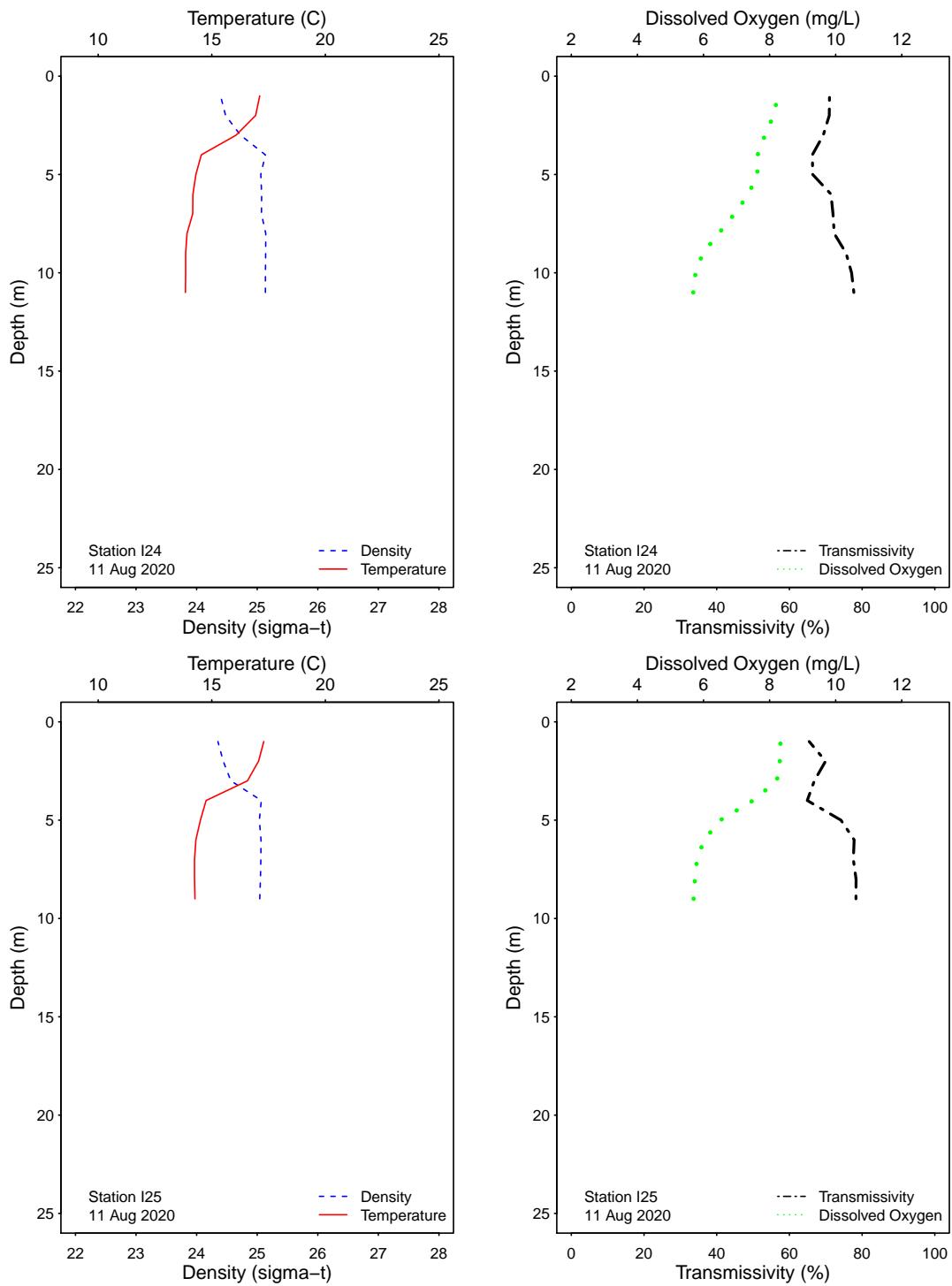


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

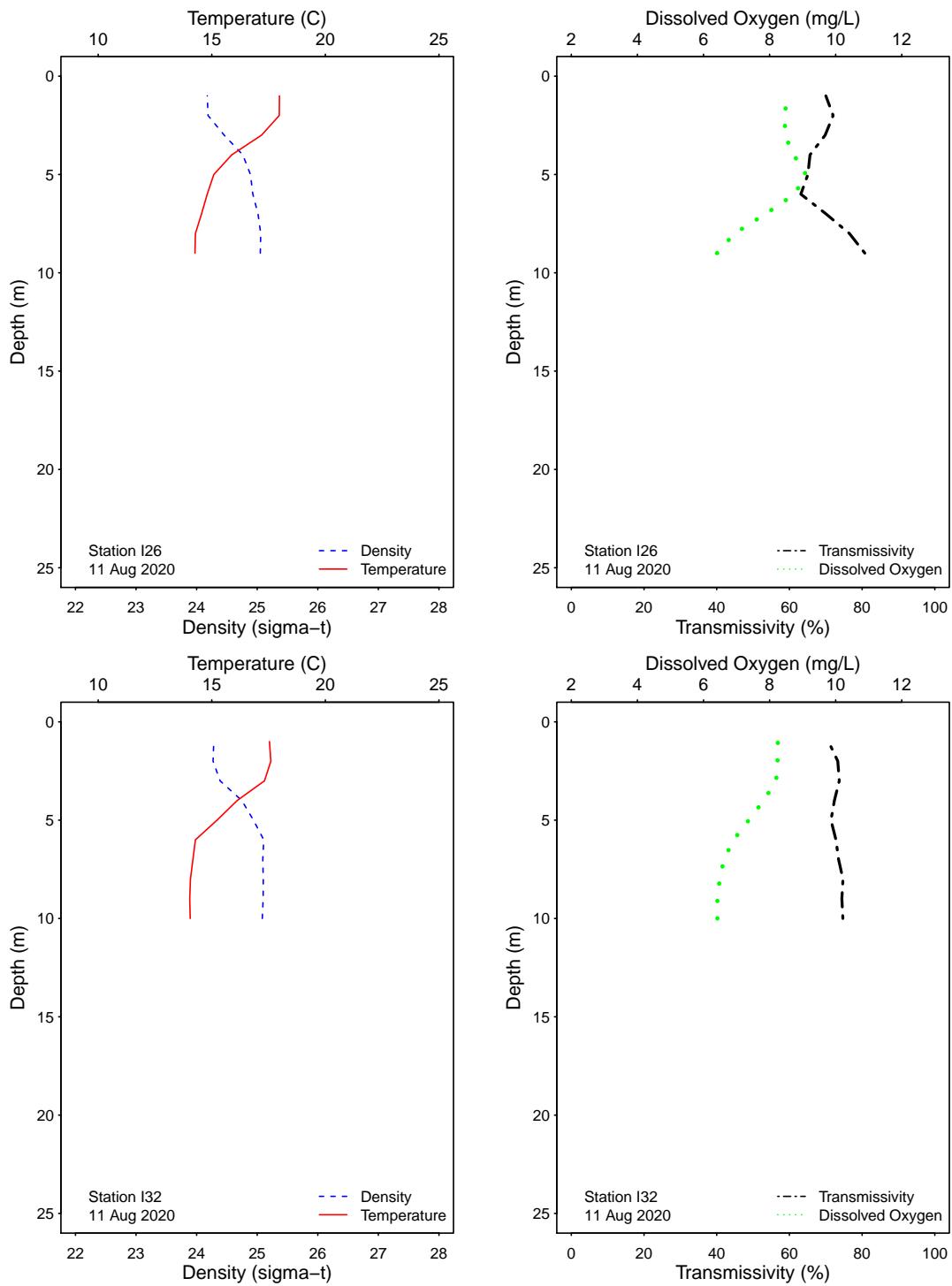


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

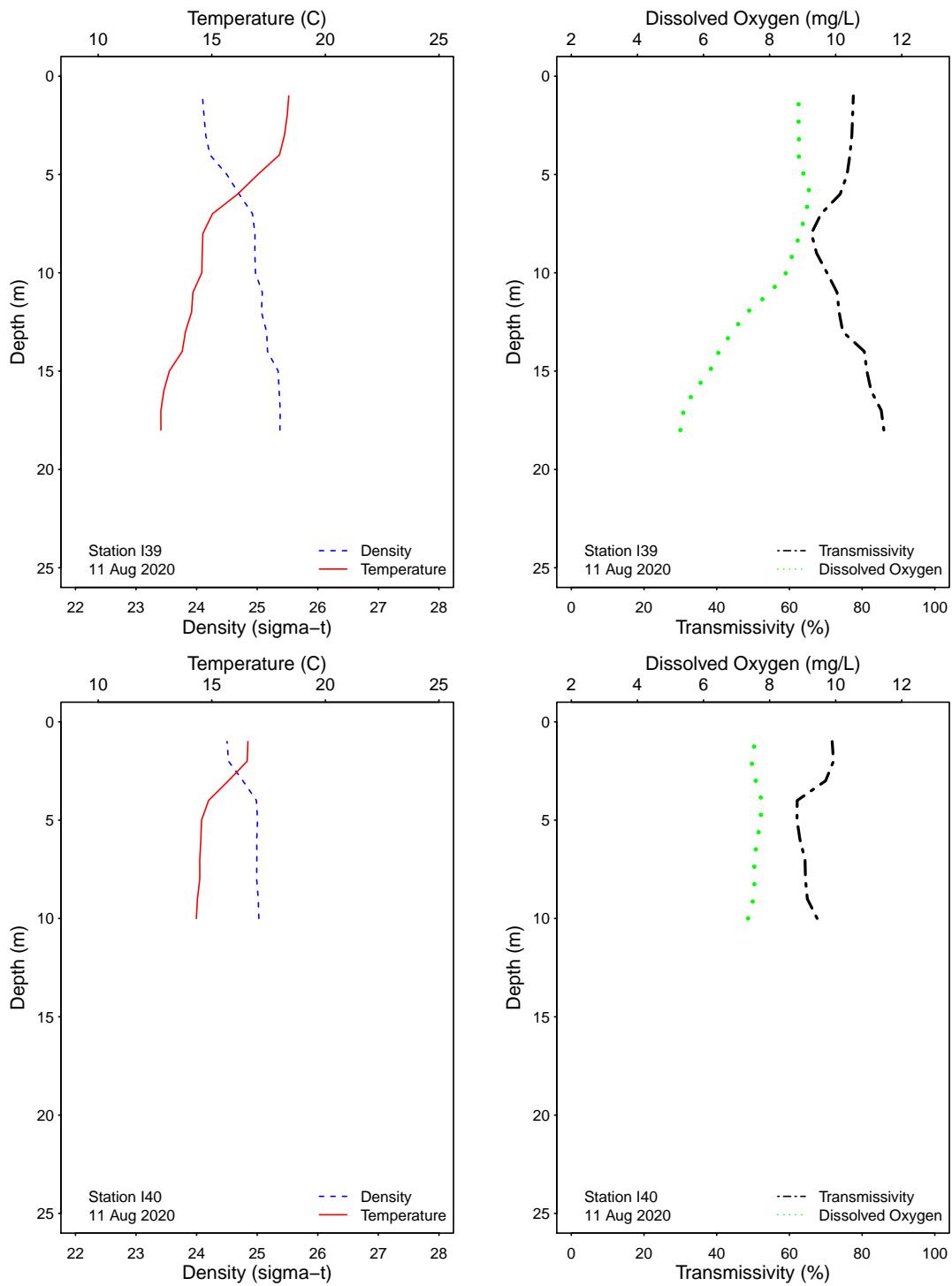


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

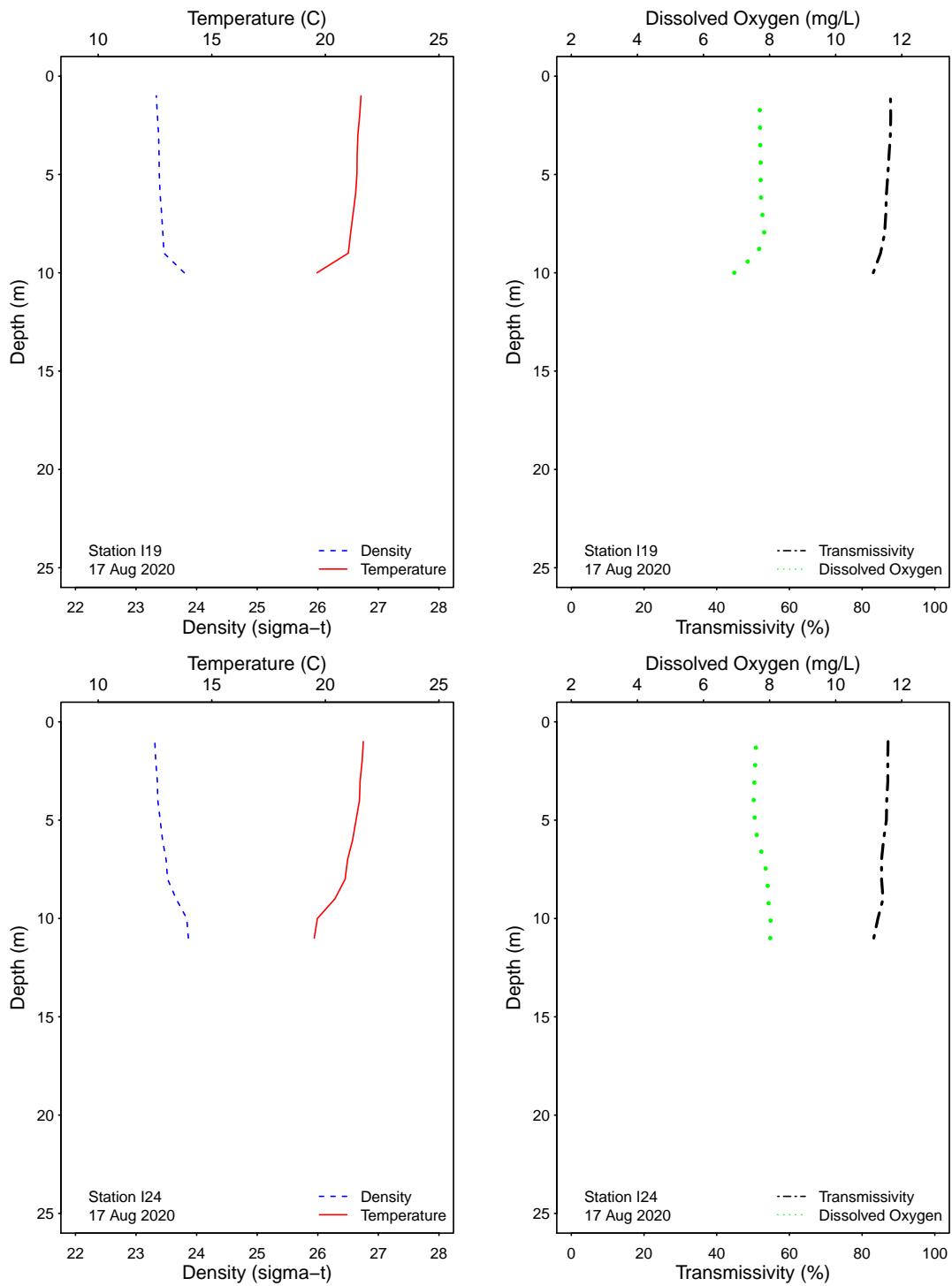


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

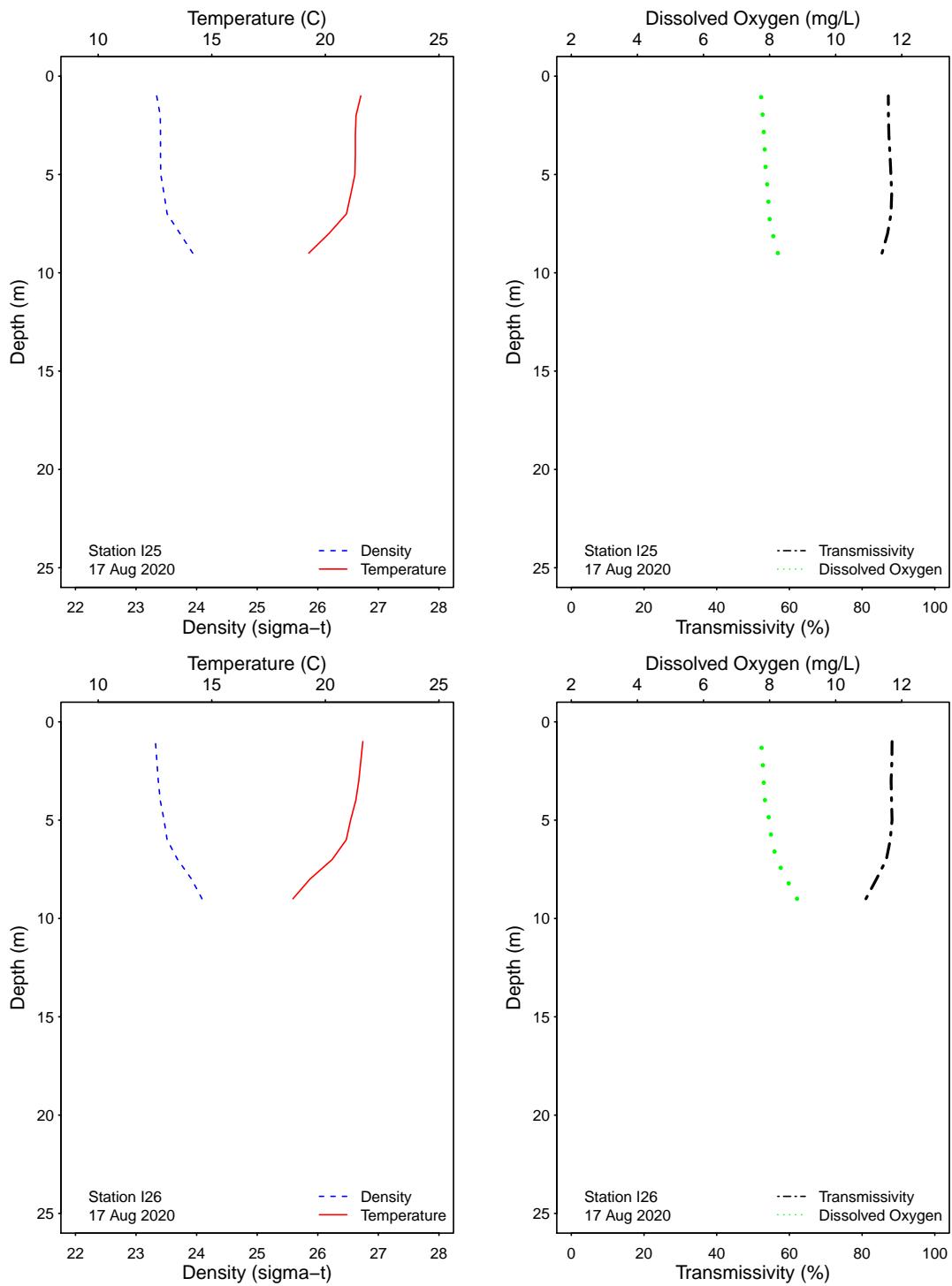


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

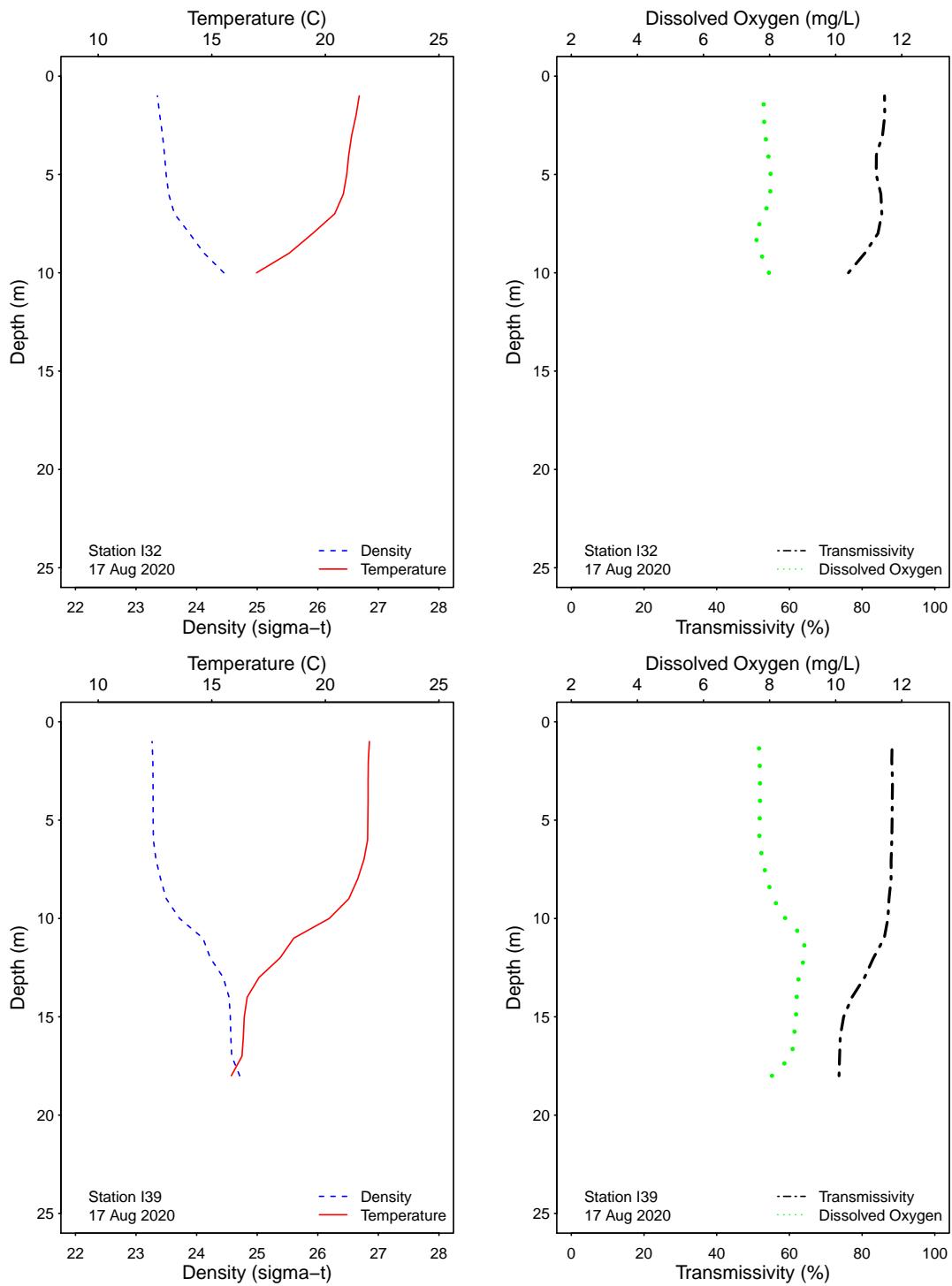


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

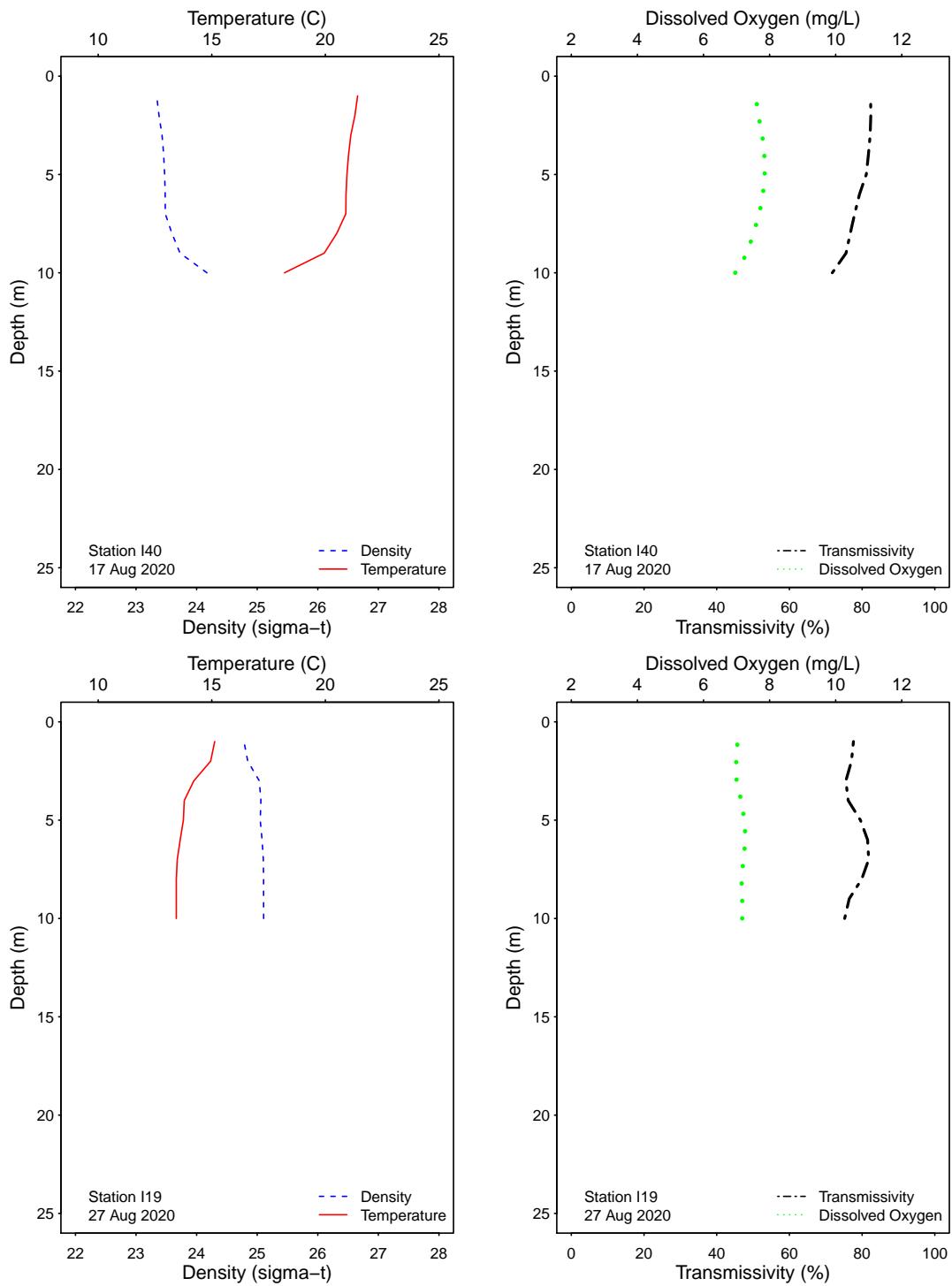


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

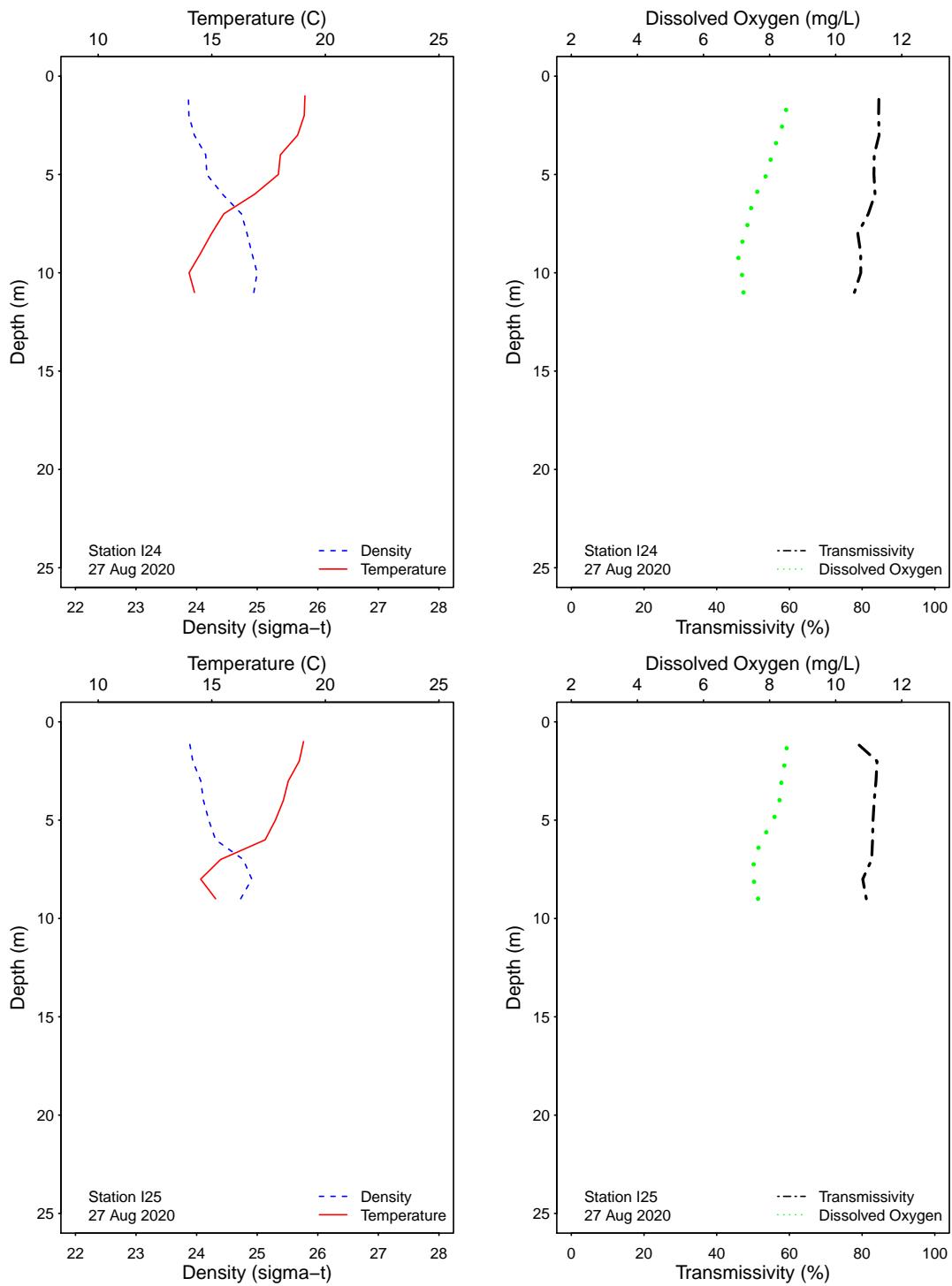


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

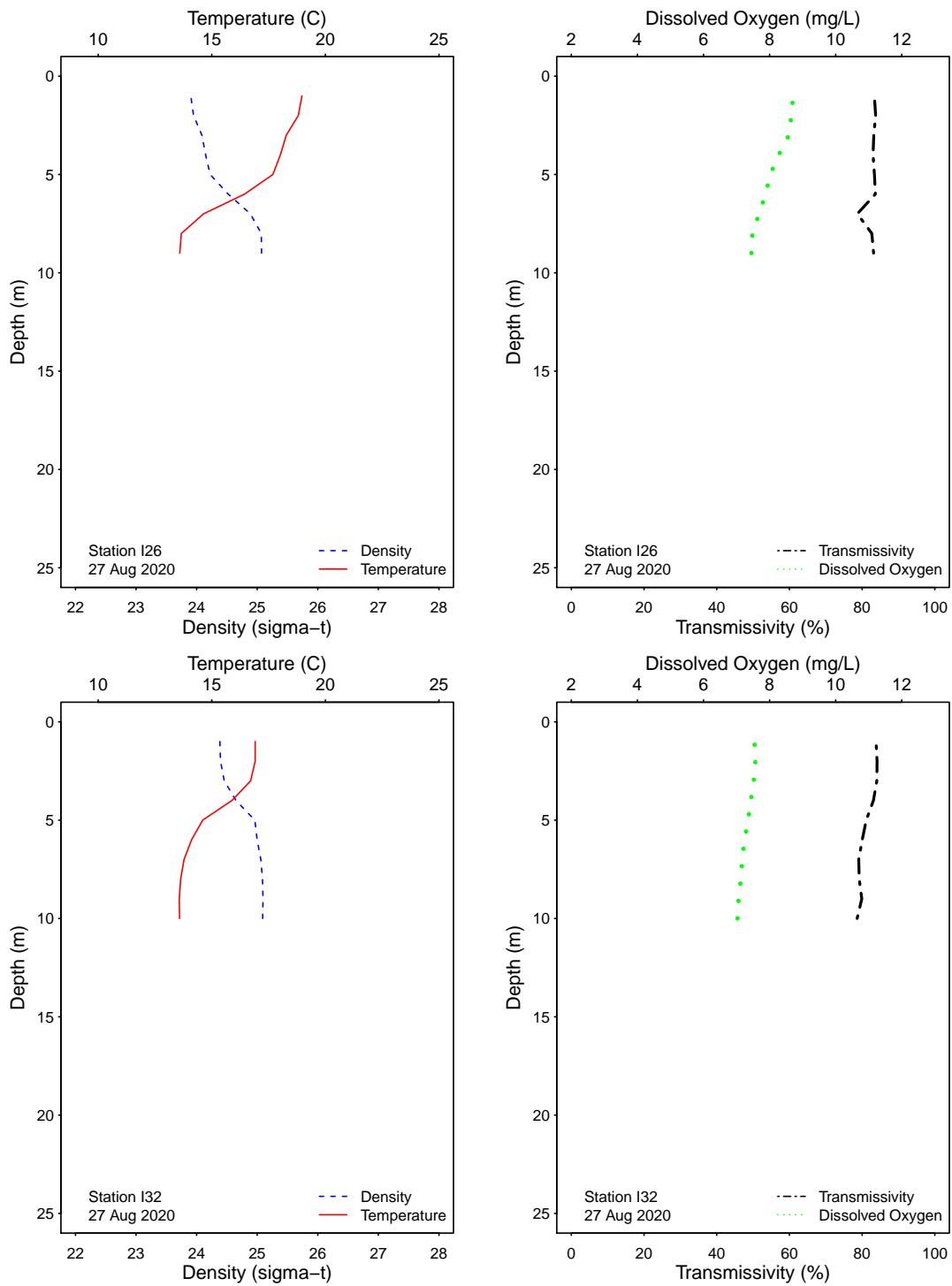


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

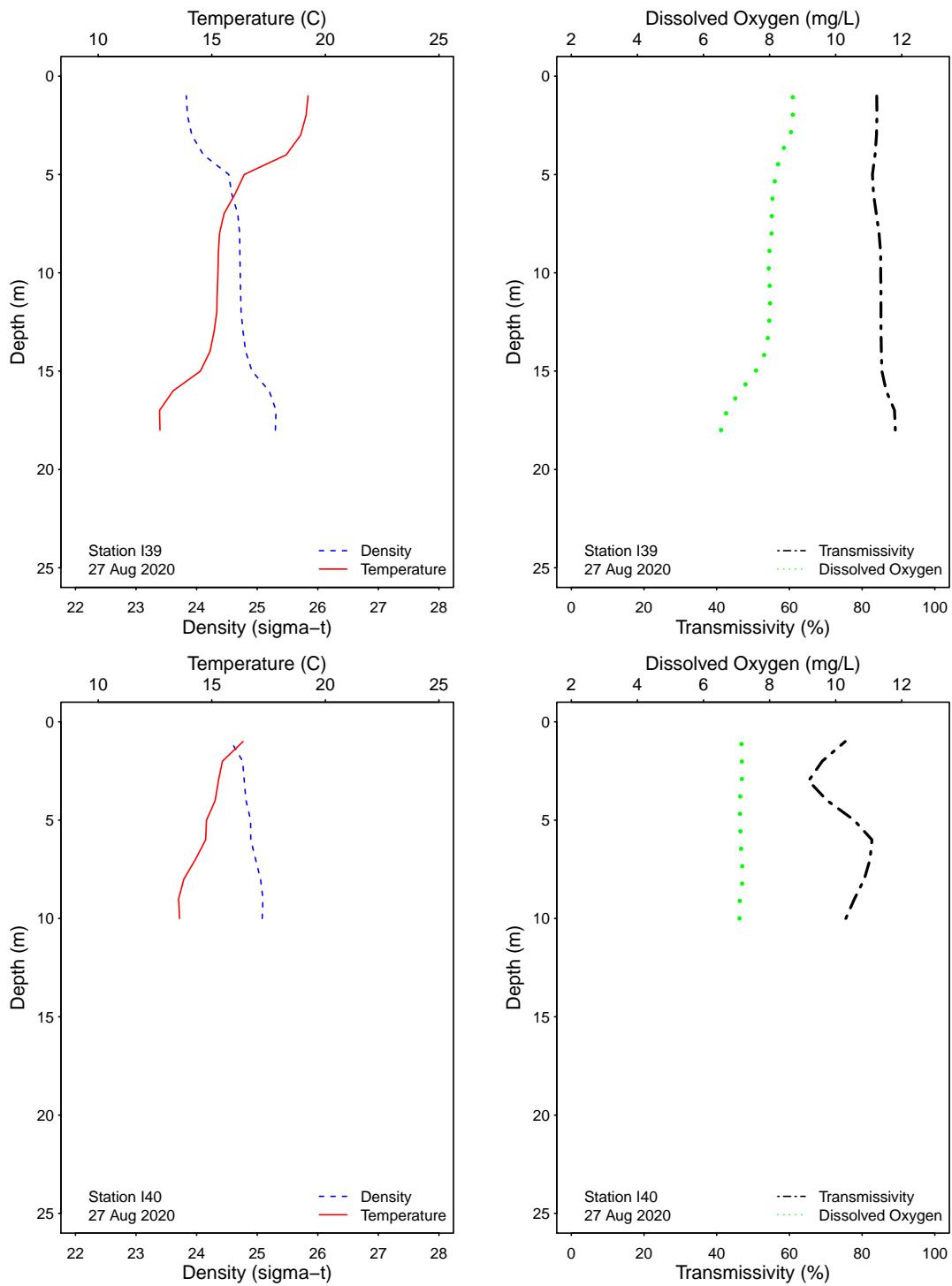


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

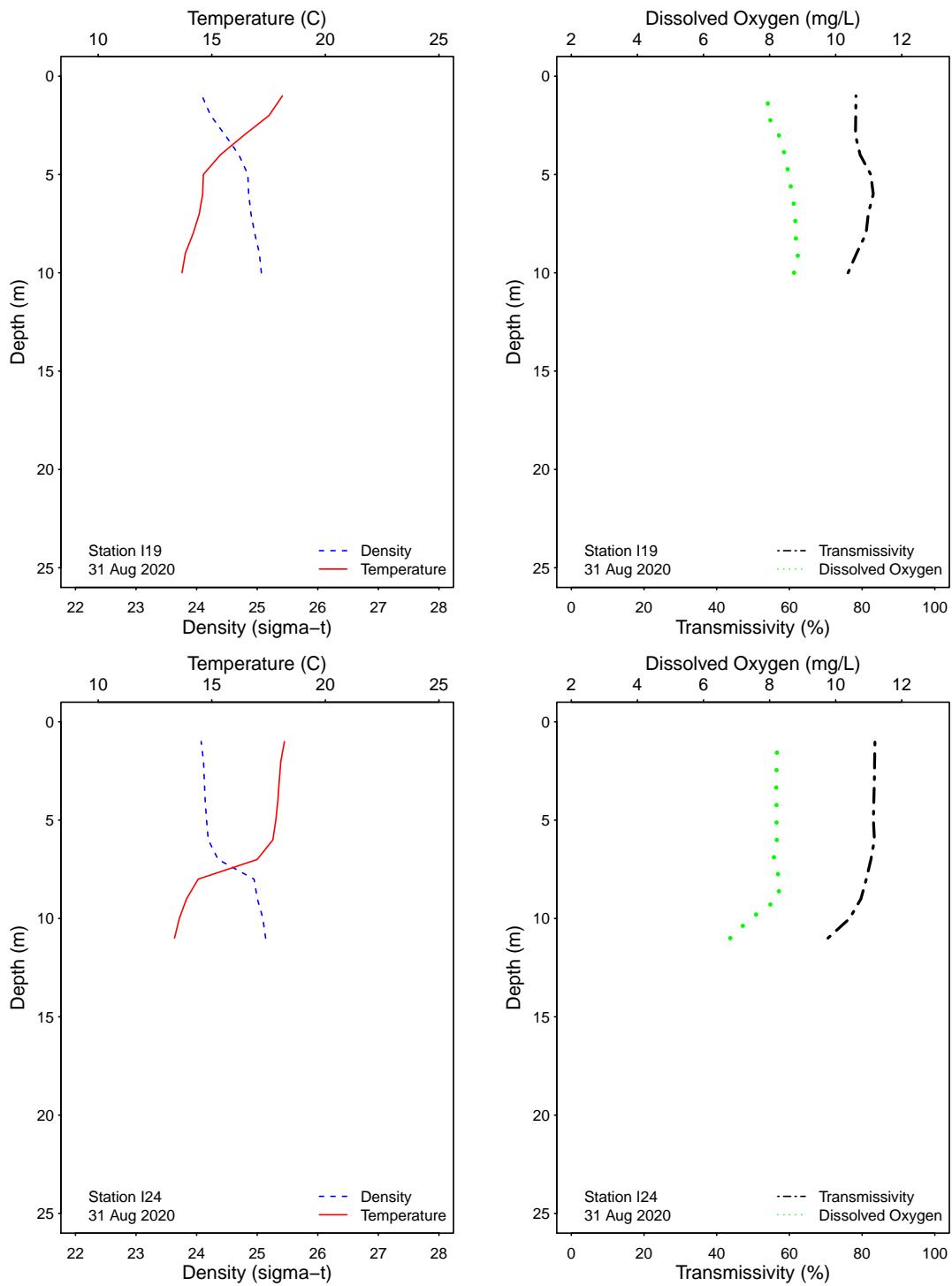


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

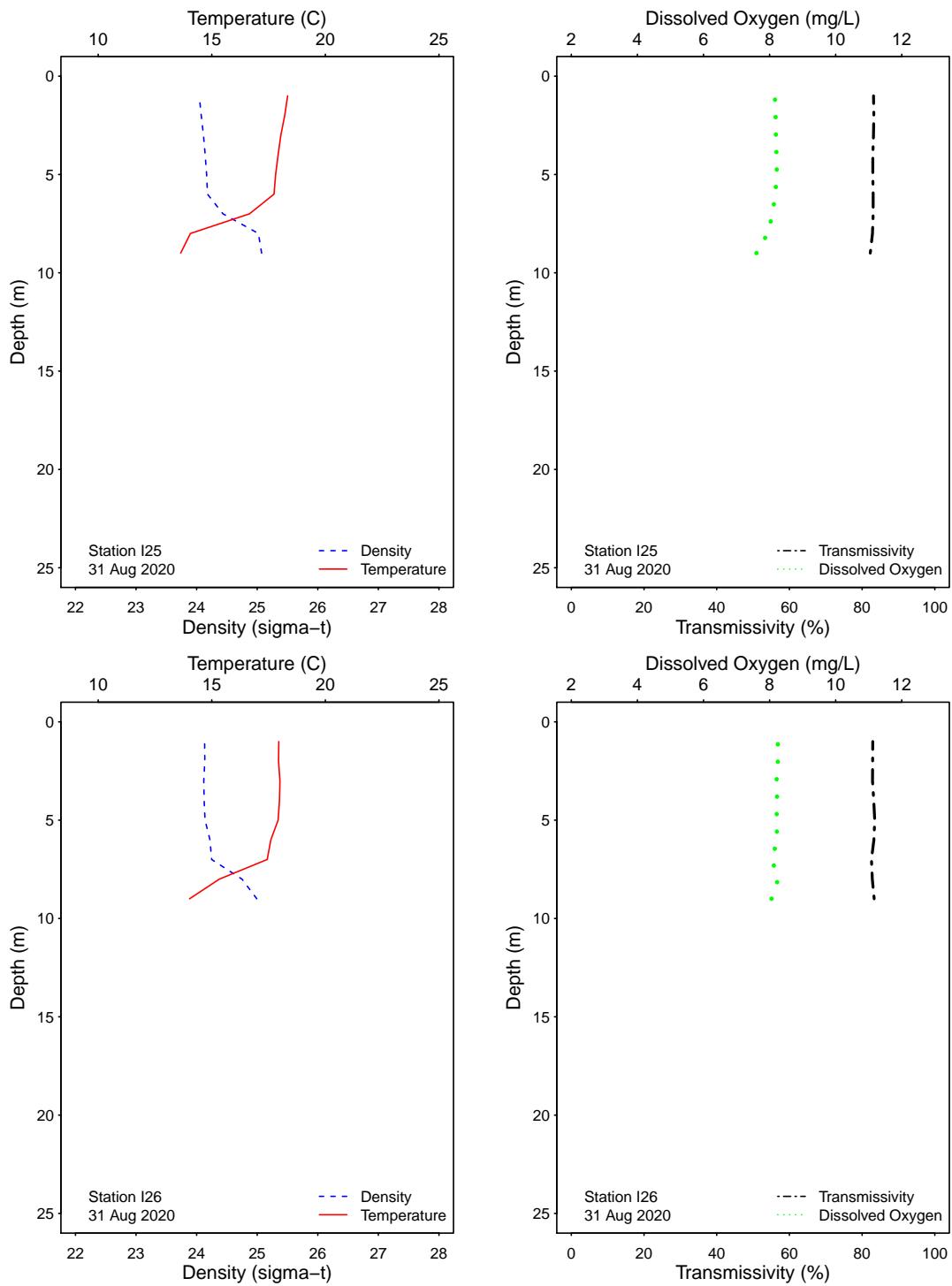


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

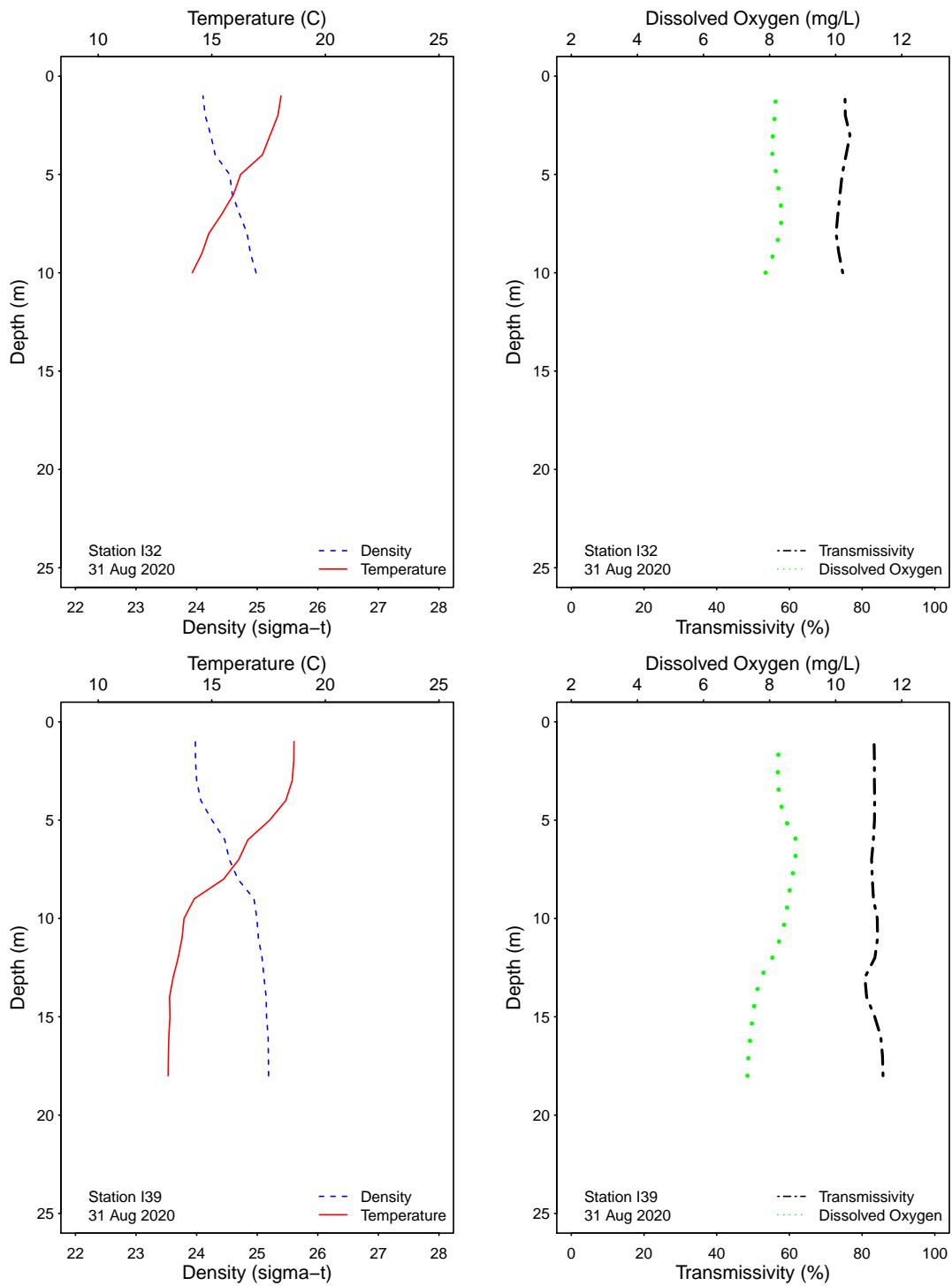


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

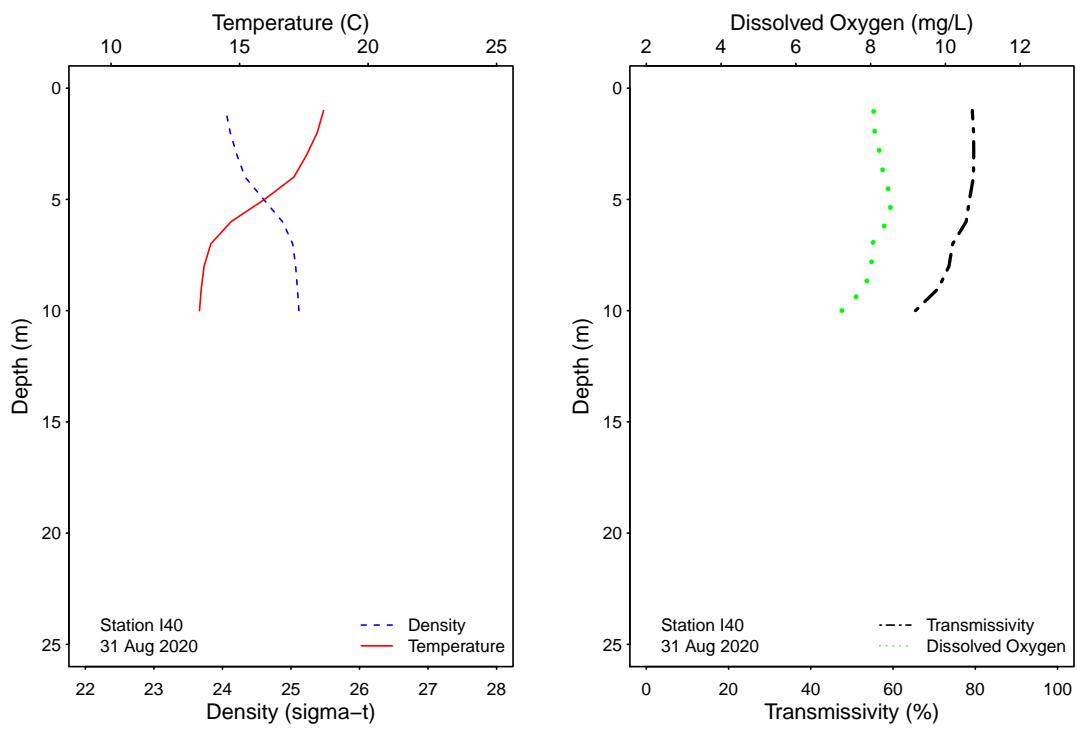


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

# 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
24 Aug 2020	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
25 Aug 2020	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
24 Aug 2020	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
25 Aug 2020	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
24 Aug 2020	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
25 Aug 2020	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
24 Aug 2020	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
25 Aug 2020	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* (Entero) 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	Entero	F:T	Temp	XMS	DO	Sal	pH
I10	26 Aug 2020	1125	2	<2	<2	<2	1.0	21.0	83.96	8.0	33.60	8.2
I10	26 Aug 2020	1125	12	<2	<2	<2	1.0	15.1	84.81	7.7	33.51	8.1
I10	26 Aug 2020	1125	18	<2	<2	<2	1.0	14.4	86.42	7.2	33.53	8.0
I11	26 Aug 2020	1114	2	<2	<2	<2	1.0	20.0	82.44	8.8	33.57	8.2
I11	26 Aug 2020	1114	6	<2	<2	<2	1.0	18.6	74.69	8.4	33.57	8.2
I11	26 Aug 2020	1114	11	2e	<2	<2	1.0	15.9	80.77	7.5	33.53	8.1
I12	24 Aug 2020	1048	2	<2	<2	<2	1.0	23.1	86.38	8.0	33.68	8.3
I12	24 Aug 2020	1048	18	<2	<2	<2	1.0	15.5	83.64	8.3	33.53	8.2
I12	24 Aug 2020	1048	27	<2	<2	<2	1.0	14.3	85.86	7.4	33.55	8.1
I13	24 Aug 2020	1112	2	<2	<2	<2	1.0	23.8	89.88	7.5	33.71	8.2
I13	24 Aug 2020	1112	18	<2	<2	<2	1.0	16.0	85.20	8.9	33.48	8.2
I13	24 Aug 2020	1112	37	<2	<2	<2	1.0	13.2	87.75	6.7	33.53	8.0
I14	24 Aug 2020	1129	2	<2	<2	<2	1.0	23.2	85.56	8.0	33.67	8.3
I14	24 Aug 2020	1129	18	<2	<2	<2	1.0	15.0	84.85	8.3	33.51	8.2
I14	24 Aug 2020	1129	27	<2	<2	<2	1.0	14.2	86.20	7.4	33.54	8.1
I16	24 Aug 2020	1041	2	<2	<2	<2	1.0	23.2	85.23	8.0	33.67	8.3
I16	24 Aug 2020	1041	18	<2	<2	<2	1.0	15.0	84.70	8.3	33.49	8.2
I16	24 Aug 2020	1041	27	<2	<2	<2	1.0	14.2	86.08	7.3	33.54	8.1
I18	24 Aug 2020	1012	2	<2	<2	<2	1.0	22.9	78.43	8.5	33.63	8.3
I18	24 Aug 2020	1012	12	<2	2e	<2	1.0	16.6	80.85	8.5	33.54	8.2
I18	24 Aug 2020	1012	18	6e	<2	<2	0.3	15.6	83.55	8.0	33.55	8.2
I20	24 Aug 2020	844	2	<2	<2	<2	1.0	23.8	90.24	7.2	33.71	8.2
I20	24 Aug 2020	844	18	<2	<2	<2	1.0	15.8	80.18	8.8	33.50	8.2
I20	24 Aug 2020	844	55	<2	<2	<2	1.0	12.4	90.79	5.8	33.58	7.9
I21	24 Aug 2020	910	2	<2	<2	<2	1.0	23.6	89.82	7.6	33.70	8.2
I21	24 Aug 2020	910	18	<2	<2	<2	1.0	15.6	84.42	8.8	33.48	8.2
I21	24 Aug 2020	910	37	<2	<2	<2	1.0	12.7	90.11	6.0	33.59	8.0
I22	24 Aug 2020	948	2	<2	<2	<2	1.0	23.3	83.56	8.2	33.65	8.3
I22	24 Aug 2020	948	18	2e	<2	<2	1.0	15.3	83.32	7.9	33.55	8.1
I22	24 Aug 2020	948	27	2e	<2	<2	1.0	14.3	86.03	7.2	33.55	8.1
I23	24 Aug 2020	1000	2	<2	<2	<2	1.0	22.9	80.39	8.6	33.64	8.3
I23	24 Aug 2020	1000	12	<2	<2	<2	1.0	16.8	80.18	8.7	33.55	8.2
I23	24 Aug 2020	1000	18	2e	<2	2e	1.0	15.8	82.45	8.1	33.57	8.2
I3	26 Aug 2020	1006	2	<2	<2	<2	1.0	20.1	86.47	8.2	33.56	8.2
I3	26 Aug 2020	1006	18	<2	<2	<2	1.0	14.7	82.95	7.6	33.53	8.1
I3	26 Aug 2020	1006	27	<2	2e	<2	1.0	13.6	88.34	7.1	33.49	8.0
I30	25 Aug 2020	1147	2	<2	<2	<2	1.0	22.7	84.94	8.3	33.64	8.3
I30	25 Aug 2020	1147	18	4e	<2	<2	0.5	14.5	85.42	7.8	33.51	8.1
I30	25 Aug 2020	1147	27	2e	<2	<2	1.0	14.1	86.84	7.1	33.53	8.1

Station	Date	Time	Depth	Total	Fecal	Enteric	F:T	Temp	XMS	DO	Sal	pH
I33	25 Aug 2020	1035	2	<2	<2	<2	1.0	23.0	86.85	8.0	33.66	8.3
I33	25 Aug 2020	1035	18	<2	<2	<2	1.0	14.4	85.47	7.8	33.52	8.1
I33	25 Aug 2020	1035	27	<2	<2	<2	1.0	14.1	86.40	7.4	33.53	8.1
I36	25 Aug 2020	1229	2	2e	<2	<2	1.0	20.6	71.26	8.6	33.60	8.2
I36	25 Aug 2020	1229	6	<20	<2	<2	0.1	18.4	75.70	8.7	33.58	8.2
I36	25 Aug 2020	1229	11	<2	<2	<2	1.0	17.2	79.90	7.2	33.56	8.1
I37	25 Aug 2020	1005	2	<2	<2	<2	1.0	21.6	76.23	8.4	33.62	8.2
I37	25 Aug 2020	1005	6	<2	<2	2e	1.0	21.3	73.07	8.3	33.62	8.2
I37	25 Aug 2020	1005	11	2e	<2	<2	1.0	16.0	82.10	8.2	33.54	8.1
I38	25 Aug 2020	1321	2	<20	<2	<2	0.1	21.4	71.26	9.4	33.61	8.3
I38	25 Aug 2020	1321	6	<2	<2	<2	1.0	18.2	75.82	9.1	33.57	8.2
I38	25 Aug 2020	1321	11	6e	<2	<2	0.3	16.7	82.55	7.9	33.55	8.2
I5	26 Aug 2020	1034	2	<2	<2	<2	1.0	20.1	78.68	8.3	33.59	8.2
I5	26 Aug 2020	1034	6	16e	<2	<2	0.1	17.5	77.70	7.7	33.56	8.1
I5	26 Aug 2020	1034	11	2e	<2	<2	1.0	14.4	85.58	7.4	33.48	8.0
I7	26 Aug 2020	852	2	2e	<2	<2	1.0	22.1	89.51	7.2	33.62	8.1
I7	26 Aug 2020	852	18	<2	<2	<2	1.0	15.9	92.21	8.2	33.39	8.1
I7	26 Aug 2020	852	52	<2	<2	<2	1.0	12.5	91.49	6.2	33.54	7.9
I8	26 Aug 2020	1152	2	<2	<2	<2	1.0	19.2	88.56	8.3	33.52	8.2
I8	26 Aug 2020	1152	18	<2	<2	<2	1.0	14.7	90.96	8.2	33.39	8.1
I8	26 Aug 2020	1152	37	<2	<2	<2	1.0	13.0	90.44	6.7	33.51	8.0
I9	26 Aug 2020	1139	2	<2	<2	<2	1.0	20.1	85.42	8.3	33.58	8.2
I9	26 Aug 2020	1139	18	6e	4e	<2	0.7	14.3	88.48	8.3	33.41	8.1
I9	26 Aug 2020	1139	27	2e	<2	<2	1.0	13.4	88.52	7.0	33.50	8.0

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	26 Aug 2020	Depth (m)	60
I1	26 Aug 2020	Arrive Time	920
I1	26 Aug 2020	Depart Time	933
I1	26 Aug 2020	Air Temp (C)	22
I1	26 Aug 2020	Weather	Cloudy
I1	26 Aug 2020	Visibility (mi)	5
I1	26 Aug 2020	Wind Speed (kts)	8
I1	26 Aug 2020	Wind Dir	W
I1	26 Aug 2020	Water Color	Bluish-Green
I1	26 Aug 2020	Wave Ht Low (ft)	3
I1	26 Aug 2020	Wave Period (sec)	9
I1	26 Aug 2020	Sea State	Heavy chop
I1	26 Aug 2020	High Tide (ft)	3.21
I1	26 Aug 2020	High Tide Time	511
I1	26 Aug 2020	Low Tide (ft)	2.48
I1	26 Aug 2020	Low Tide Time	944
I1	26 Aug 2020	Comments	none
I10	26 Aug 2020	Depth (m)	21
I10	26 Aug 2020	Arrive Time	1125
I10	26 Aug 2020	Depart Time	1128
I10	26 Aug 2020	Air Temp (C)	21
I10	26 Aug 2020	Weather	Cloudy
I10	26 Aug 2020	Visibility (mi)	7
I10	26 Aug 2020	Wind Speed (kts)	13
I10	26 Aug 2020	Wind Dir	NW
I10	26 Aug 2020	Water Color	Greenish-Brown
I10	26 Aug 2020	Wave Ht Low (ft)	3
I10	26 Aug 2020	Wave Period (sec)	9
I10	26 Aug 2020	Sea State	Confused swell
I10	26 Aug 2020	High Tide (ft)	3.21
I10	26 Aug 2020	High Tide Time	511
I10	26 Aug 2020	Low Tide (ft)	2.48
I10	26 Aug 2020	Low Tide Time	944
I10	26 Aug 2020	Comments	none
I11	26 Aug 2020	Depth (m)	14
I11	26 Aug 2020	Arrive Time	1114
I11	26 Aug 2020	Depart Time	1116
I11	26 Aug 2020	Air Temp (C)	21
I11	26 Aug 2020	Weather	Cloudy
I11	26 Aug 2020	Visibility (mi)	7
I11	26 Aug 2020	Wind Speed (kts)	8
I11	26 Aug 2020	Wind Dir	W
I11	26 Aug 2020	Water Color	Greenish-Brown
I11	26 Aug 2020	Wave Ht Low (ft)	3
I11	26 Aug 2020	Wave Period (sec)	9
I11	26 Aug 2020	Sea State	Confused swell
I11	26 Aug 2020	High Tide (ft)	3.21
I11	26 Aug 2020	High Tide Time	511
I11	26 Aug 2020	Low Tide (ft)	2.48
I11	26 Aug 2020	Low Tide Time	944
I11	26 Aug 2020	Comments	none
I12	24 Aug 2020	Depth (m)	30
I12	24 Aug 2020	Arrive Time	1048

Station	Date	Parameter	Value
I12	24 Aug 2020	Depart Time	1050
I12	24 Aug 2020	Air Temp (C)	22
I12	24 Aug 2020	Weather	Cloudy
I12	24 Aug 2020	Visibility (mi)	7
I12	24 Aug 2020	Wind Speed (kts)	9
I12	24 Aug 2020	Wind Dir	NW
I12	24 Aug 2020	Water Color	Green
I12	24 Aug 2020	Wave Ht Low (ft)	3
I12	24 Aug 2020	Wave Period (sec)	11
I12	24 Aug 2020	Sea State	Light chop
I12	24 Aug 2020	High Tide (ft)	5.21
I12	24 Aug 2020	High Tide Time	1402
I12	24 Aug 2020	Low Tide (ft)	1.38
I12	24 Aug 2020	Low Tide Time	728
I12	24 Aug 2020	Comments	none
I13	24 Aug 2020	Depth (m)	41
I13	24 Aug 2020	Arrive Time	1112
I13	24 Aug 2020	Depart Time	1116
I13	24 Aug 2020	Air Temp (C)	23
I13	24 Aug 2020	Weather	Cloudy
I13	24 Aug 2020	Visibility (mi)	7
I13	24 Aug 2020	Wind Speed (kts)	12
I13	24 Aug 2020	Wind Dir	N
I13	24 Aug 2020	Water Color	Green
I13	24 Aug 2020	Wave Ht Low (ft)	3
I13	24 Aug 2020	Wave Period (sec)	11
I13	24 Aug 2020	Sea State	Light chop
I13	24 Aug 2020	High Tide (ft)	5.21
I13	24 Aug 2020	High Tide Time	1402
I13	24 Aug 2020	Low Tide (ft)	1.38
I13	24 Aug 2020	Low Tide Time	728
I13	24 Aug 2020	Comments	none
I14	24 Aug 2020	Depth (m)	29
I14	24 Aug 2020	Arrive Time	1129
I14	24 Aug 2020	Depart Time	1133
I14	24 Aug 2020	Air Temp (C)	23
I14	24 Aug 2020	Weather	Cloudy
I14	24 Aug 2020	Visibility (mi)	7
I14	24 Aug 2020	Wind Speed (kts)	11
I14	24 Aug 2020	Wind Dir	NW
I14	24 Aug 2020	Water Color	Green
I14	24 Aug 2020	Wave Ht Low (ft)	3
I14	24 Aug 2020	Wave Period (sec)	11
I14	24 Aug 2020	Sea State	Light chop
I14	24 Aug 2020	High Tide (ft)	5.21
I14	24 Aug 2020	High Tide Time	1402
I14	24 Aug 2020	Low Tide (ft)	1.38
I14	24 Aug 2020	Low Tide Time	728
I14	24 Aug 2020	Comments	none
I15	24 Aug 2020	Depth (m)	33
I15	24 Aug 2020	Arrive Time	1057
I15	24 Aug 2020	Depart Time	1101
I15	24 Aug 2020	Air Temp (C)	22
I15	24 Aug 2020	Weather	Cloudy
I15	24 Aug 2020	Visibility (mi)	7
I15	24 Aug 2020	Wind Speed (kts)	9
I15	24 Aug 2020	Wind Dir	NW
I15	24 Aug 2020	Water Color	Green

Station	Date	Parameter	Value
I15	24 Aug 2020	Wave Ht Low (ft)	3
I15	24 Aug 2020	Wave Period (sec)	11
I15	24 Aug 2020	Sea State	Light chop
I15	24 Aug 2020	High Tide (ft)	5.21
I15	24 Aug 2020	High Tide Time	1402
I15	24 Aug 2020	Low Tide (ft)	1.38
I15	24 Aug 2020	Low Tide Time	728
I15	24 Aug 2020	Comments	none
I16	24 Aug 2020	Depth (m)	30
I16	24 Aug 2020	Arrive Time	1041
I16	24 Aug 2020	Depart Time	1042
I16	24 Aug 2020	Air Temp (C)	22
I16	24 Aug 2020	Weather	Cloudy
I16	24 Aug 2020	Visibility (mi)	7
I16	24 Aug 2020	Wind Speed (kts)	8
I16	24 Aug 2020	Wind Dir	NW
I16	24 Aug 2020	Water Color	Green
I16	24 Aug 2020	Wave Ht Low (ft)	3
I16	24 Aug 2020	Wave Period (sec)	11
I16	24 Aug 2020	Sea State	Light chop
I16	24 Aug 2020	High Tide (ft)	5.21
I16	24 Aug 2020	High Tide Time	1402
I16	24 Aug 2020	Low Tide (ft)	1.38
I16	24 Aug 2020	Low Tide Time	728
I16	24 Aug 2020	Comments	none
I17	24 Aug 2020	Depth (m)	30
I17	24 Aug 2020	Arrive Time	1027
I17	24 Aug 2020	Depart Time	1031
I17	24 Aug 2020	Air Temp (C)	22
I17	24 Aug 2020	Weather	Cloudy
I17	24 Aug 2020	Visibility (mi)	6
I17	24 Aug 2020	Wind Speed (kts)	11
I17	24 Aug 2020	Wind Dir	NW
I17	24 Aug 2020	Water Color	Green
I17	24 Aug 2020	Wave Ht Low (ft)	3
I17	24 Aug 2020	Wave Period (sec)	11
I17	24 Aug 2020	Sea State	Light chop
I17	24 Aug 2020	High Tide (ft)	5.21
I17	24 Aug 2020	High Tide Time	1402
I17	24 Aug 2020	Low Tide (ft)	1.38
I17	24 Aug 2020	Low Tide Time	728
I17	24 Aug 2020	Comments	none
I18	24 Aug 2020	Depth (m)	21
I18	24 Aug 2020	Arrive Time	1012
I18	24 Aug 2020	Depart Time	1014
I18	24 Aug 2020	Air Temp (C)	22
I18	24 Aug 2020	Weather	Cloudy
I18	24 Aug 2020	Visibility (mi)	6
I18	24 Aug 2020	Wind Speed (kts)	10
I18	24 Aug 2020	Wind Dir	NW
I18	24 Aug 2020	Water Color	Green
I18	24 Aug 2020	Wave Ht Low (ft)	3
I18	24 Aug 2020	Wave Period (sec)	11
I18	24 Aug 2020	Sea State	Light chop
I18	24 Aug 2020	High Tide (ft)	5.21
I18	24 Aug 2020	High Tide Time	1402
I18	24 Aug 2020	Low Tide (ft)	1.38
I18	24 Aug 2020	Low Tide Time	728

Station	Date	Parameter	Value
I18	24 Aug 2020	Comments	none
I2	26 Aug 2020	Depth (m)	34
I2	26 Aug 2020	Arrive Time	950
I2	26 Aug 2020	Depart Time	953
I2	26 Aug 2020	Air Temp (C)	21
I2	26 Aug 2020	Weather	Cloudy
I2	26 Aug 2020	Visibility (mi)	5
I2	26 Aug 2020	Wind Speed (kts)	10
I2	26 Aug 2020	Wind Dir	NW
I2	26 Aug 2020	Water Color	Bluish-Green
I2	26 Aug 2020	Wave Ht Low (ft)	3
I2	26 Aug 2020	Wave Period (sec)	9
I2	26 Aug 2020	Sea State	Heavy chop
I2	26 Aug 2020	High Tide (ft)	3.21
I2	26 Aug 2020	High Tide Time	511
I2	26 Aug 2020	Low Tide (ft)	2.48
I2	26 Aug 2020	Low Tide Time	944
I2	26 Aug 2020	Comments	none
I20	24 Aug 2020	Depth (m)	56
I20	24 Aug 2020	Arrive Time	844
I20	24 Aug 2020	Depart Time	849
I20	24 Aug 2020	Air Temp (C)	22
I20	24 Aug 2020	Weather	Cloudy
I20	24 Aug 2020	Visibility (mi)	2
I20	24 Aug 2020	Wind Speed (kts)	8
I20	24 Aug 2020	Wind Dir	NW
I20	24 Aug 2020	Water Color	Brownish-Green
I20	24 Aug 2020	Wave Ht Low (ft)	3
I20	24 Aug 2020	Wave Period (sec)	11
I20	24 Aug 2020	Sea State	Calm
I20	24 Aug 2020	High Tide (ft)	5.21
I20	24 Aug 2020	High Tide Time	1402
I20	24 Aug 2020	Low Tide (ft)	1.38
I20	24 Aug 2020	Low Tide Time	728
I20	24 Aug 2020	Comments	none
I21	24 Aug 2020	Depth (m)	42
I21	24 Aug 2020	Arrive Time	910
I21	24 Aug 2020	Depart Time	925
I21	24 Aug 2020	Air Temp (C)	22
I21	24 Aug 2020	Weather	Cloudy
I21	24 Aug 2020	Visibility (mi)	2
I21	24 Aug 2020	Wind Speed (kts)	10
I21	24 Aug 2020	Wind Dir	NW
I21	24 Aug 2020	Water Color	Green
I21	24 Aug 2020	Wave Ht Low (ft)	3
I21	24 Aug 2020	Wave Period (sec)	11
I21	24 Aug 2020	Sea State	Calm
I21	24 Aug 2020	High Tide (ft)	5.21
I21	24 Aug 2020	High Tide Time	1402
I21	24 Aug 2020	Low Tide (ft)	1.38
I21	24 Aug 2020	Low Tide Time	728
I21	24 Aug 2020	Comments	none
I22	24 Aug 2020	Depth (m)	29
I22	24 Aug 2020	Arrive Time	948
I22	24 Aug 2020	Depart Time	950
I22	24 Aug 2020	Air Temp (C)	22
I22	24 Aug 2020	Weather	Cloudy

Station	Date	Parameter	Value
I22	24 Aug 2020	Visibility (mi)	5
I22	24 Aug 2020	Wind Speed (kts)	10
I22	24 Aug 2020	Wind Dir	NW
I22	24 Aug 2020	Water Color	Green
I22	24 Aug 2020	Wave Ht Low (ft)	3
I22	24 Aug 2020	Wave Period (sec)	11
I22	24 Aug 2020	Sea State	Light chop
I22	24 Aug 2020	High Tide (ft)	5.21
I22	24 Aug 2020	High Tide Time	1402
I22	24 Aug 2020	Low Tide (ft)	1.38
I22	24 Aug 2020	Low Tide Time	728
I22	24 Aug 2020	Comments	none
I23	24 Aug 2020	Depth (m)	23
I23	24 Aug 2020	Arrive Time	1000
I23	24 Aug 2020	Depart Time	1003
I23	24 Aug 2020	Air Temp (C)	22
I23	24 Aug 2020	Weather	Cloudy
I23	24 Aug 2020	Visibility (mi)	5
I23	24 Aug 2020	Wind Speed (kts)	10
I23	24 Aug 2020	Wind Dir	NW
I23	24 Aug 2020	Water Color	Green
I23	24 Aug 2020	Wave Ht Low (ft)	3
I23	24 Aug 2020	Wave Period (sec)	11
I23	24 Aug 2020	Sea State	Light chop
I23	24 Aug 2020	High Tide (ft)	5.21
I23	24 Aug 2020	High Tide Time	1402
I23	24 Aug 2020	Low Tide (ft)	1.38
I23	24 Aug 2020	Low Tide Time	728
I23	24 Aug 2020	Comments	none
I27	24 Aug 2020	Depth (m)	29
I27	24 Aug 2020	Arrive Time	933
I27	24 Aug 2020	Depart Time	936
I27	24 Aug 2020	Air Temp (C)	22
I27	24 Aug 2020	Weather	Cloudy
I27	24 Aug 2020	Visibility (mi)	4
I27	24 Aug 2020	Wind Speed (kts)	9
I27	24 Aug 2020	Wind Dir	NW
I27	24 Aug 2020	Water Color	Green
I27	24 Aug 2020	Wave Ht Low (ft)	3
I27	24 Aug 2020	Wave Period (sec)	11
I27	24 Aug 2020	Sea State	Calm
I27	24 Aug 2020	High Tide (ft)	5.21
I27	24 Aug 2020	High Tide Time	1402
I27	24 Aug 2020	Low Tide (ft)	1.38
I27	24 Aug 2020	Low Tide Time	728
I27	24 Aug 2020	Comments	none
I28	25 Aug 2020	Depth (m)	57
I28	25 Aug 2020	Arrive Time	1059
I28	25 Aug 2020	Depart Time	1105
I28	25 Aug 2020	Air Temp (C)	22
I28	25 Aug 2020	Weather	Overcast
I28	25 Aug 2020	Visibility (mi)	5
I28	25 Aug 2020	Wind Speed (kts)	3
I28	25 Aug 2020	Wind Dir	NW
I28	25 Aug 2020	Water Color	Green
I28	25 Aug 2020	Wave Ht Low (ft)	3
I28	25 Aug 2020	Wave Period (sec)	9
I28	25 Aug 2020	Sea State	Calm

Station	Date	Parameter	Value
I28	25 Aug 2020	High Tide (ft)	5.2
I28	25 Aug 2020	High Tide Time	1508
I28	25 Aug 2020	Low Tide (ft)	2.01
I28	25 Aug 2020	Low Tide Time	824
I28	25 Aug 2020	Comments	none
I29	25 Aug 2020	Depth (m)	38
I29	25 Aug 2020	Arrive Time	1124
I29	25 Aug 2020	Depart Time	1129
I29	25 Aug 2020	Air Temp (C)	23
I29	25 Aug 2020	Weather	Overcast
I29	25 Aug 2020	Visibility (mi)	7
I29	25 Aug 2020	Wind Speed (kts)	4
I29	25 Aug 2020	Wind Dir	W
I29	25 Aug 2020	Water Color	Green
I29	25 Aug 2020	Wave Ht Low (ft)	3
I29	25 Aug 2020	Wave Period (sec)	9
I29	25 Aug 2020	Sea State	Calm
I29	25 Aug 2020	High Tide (ft)	5.2
I29	25 Aug 2020	High Tide Time	1508
I29	25 Aug 2020	Low Tide (ft)	2.01
I29	25 Aug 2020	Low Tide Time	824
I29	25 Aug 2020	Comments	none
I3	26 Aug 2020	Depth (m)	27
I3	26 Aug 2020	Arrive Time	1006
I3	26 Aug 2020	Depart Time	1009
I3	26 Aug 2020	Air Temp (C)	21
I3	26 Aug 2020	Weather	Cloudy
I3	26 Aug 2020	Visibility (mi)	5
I3	26 Aug 2020	Wind Speed (kts)	5
I3	26 Aug 2020	Wind Dir	NW
I3	26 Aug 2020	Water Color	Bluish-Green
I3	26 Aug 2020	Wave Ht Low (ft)	3
I3	26 Aug 2020	Wave Period (sec)	9
I3	26 Aug 2020	Sea State	Heavy chop
I3	26 Aug 2020	High Tide (ft)	3.21
I3	26 Aug 2020	High Tide Time	511
I3	26 Aug 2020	Low Tide (ft)	2.48
I3	26 Aug 2020	Low Tide Time	944
I3	26 Aug 2020	Comments	none
I30	25 Aug 2020	Depth (m)	27
I30	25 Aug 2020	Arrive Time	1147
I30	25 Aug 2020	Depart Time	1156
I30	25 Aug 2020	Air Temp (C)	22
I30	25 Aug 2020	Weather	Overcast
I30	25 Aug 2020	Visibility (mi)	7
I30	25 Aug 2020	Wind Speed (kts)	14
I30	25 Aug 2020	Wind Dir	W
I30	25 Aug 2020	Water Color	Green
I30	25 Aug 2020	Wave Ht Low (ft)	3
I30	25 Aug 2020	Wave Period (sec)	9
I30	25 Aug 2020	Sea State	Calm
I30	25 Aug 2020	High Tide (ft)	5.2
I30	25 Aug 2020	High Tide Time	1508
I30	25 Aug 2020	Low Tide (ft)	2.01
I30	25 Aug 2020	Low Tide Time	824
I30	25 Aug 2020	Comments	Could not get within 0.05nm of station due to gill net on station; Within 10-15 m of 0.05nm

Station	Date	Parameter	Value
I31	25 Aug 2020	Depth (m)	19
I31	25 Aug 2020	Arrive Time	1202
I31	25 Aug 2020	Depart Time	1211
I31	25 Aug 2020	Air Temp (C)	22
I31	25 Aug 2020	Weather	Overcast
I31	25 Aug 2020	Visibility (mi)	7
I31	25 Aug 2020	Wind Speed (kts)	11
I31	25 Aug 2020	Wind Dir	W
I31	25 Aug 2020	Water Color	Green
I31	25 Aug 2020	Wave Ht Low (ft)	3
I31	25 Aug 2020	Wave Period (sec)	9
I31	25 Aug 2020	Sea State	Calm
I31	25 Aug 2020	High Tide (ft)	5.2
I31	25 Aug 2020	High Tide Time	1508
I31	25 Aug 2020	Low Tide (ft)	2.01
I31	25 Aug 2020	Low Tide Time	824
I31	25 Aug 2020	Comments	none
I33	25 Aug 2020	Depth (m)	30
I33	25 Aug 2020	Arrive Time	1035
I33	25 Aug 2020	Depart Time	1043
I33	25 Aug 2020	Air Temp (C)	22
I33	25 Aug 2020	Weather	Overcast
I33	25 Aug 2020	Visibility (mi)	5
I33	25 Aug 2020	Wind Speed (kts)	10
I33	25 Aug 2020	Wind Dir	NW
I33	25 Aug 2020	Water Color	Green
I33	25 Aug 2020	Wave Ht Low (ft)	3
I33	25 Aug 2020	Wave Period (sec)	9
I33	25 Aug 2020	Sea State	Calm
I33	25 Aug 2020	High Tide (ft)	5.2
I33	25 Aug 2020	High Tide Time	1508
I33	25 Aug 2020	Low Tide (ft)	2.01
I33	25 Aug 2020	Low Tide Time	824
I33	25 Aug 2020	Comments	none
I34	25 Aug 2020	Depth (m)	20
I34	25 Aug 2020	Arrive Time	1017
I34	25 Aug 2020	Depart Time	1024
I34	25 Aug 2020	Air Temp (C)	22
I34	25 Aug 2020	Weather	Overcast
I34	25 Aug 2020	Visibility (mi)	5
I34	25 Aug 2020	Wind Speed (kts)	10
I34	25 Aug 2020	Wind Dir	W
I34	25 Aug 2020	Water Color	Green
I34	25 Aug 2020	Wave Ht Low (ft)	3
I34	25 Aug 2020	Wave Period (sec)	9
I34	25 Aug 2020	Sea State	Calm
I34	25 Aug 2020	High Tide (ft)	5.2
I34	25 Aug 2020	High Tide Time	1508
I34	25 Aug 2020	Low Tide (ft)	2.01
I34	25 Aug 2020	Low Tide Time	824
I34	25 Aug 2020	Comments	none
I35	25 Aug 2020	Depth (m)	17
I35	25 Aug 2020	Arrive Time	1255
I35	25 Aug 2020	Depart Time	1300
I35	25 Aug 2020	Air Temp (C)	22
I35	25 Aug 2020	Weather	Overcast
I35	25 Aug 2020	Visibility (mi)	7
I35	25 Aug 2020	Wind Speed (kts)	10

Station	Date	Parameter	Value
I35	25 Aug 2020	Wind Dir	W
I35	25 Aug 2020	Water Color	Green
I35	25 Aug 2020	Wave Ht Low (ft)	3
I35	25 Aug 2020	Wave Period (sec)	9
I35	25 Aug 2020	Sea State	Calm
I35	25 Aug 2020	High Tide (ft)	5.2
I35	25 Aug 2020	High Tide Time	1508
I35	25 Aug 2020	Low Tide (ft)	2.01
I35	25 Aug 2020	Low Tide Time	824
I35	25 Aug 2020	Comments	none
I36	25 Aug 2020	Depth (m)	11
I36	25 Aug 2020	Arrive Time	1229
I36	25 Aug 2020	Depart Time	1231
I36	25 Aug 2020	Air Temp (C)	22
I36	25 Aug 2020	Weather	Overcast
I36	25 Aug 2020	Visibility (mi)	7
I36	25 Aug 2020	Wind Speed (kts)	12
I36	25 Aug 2020	Wind Dir	W
I36	25 Aug 2020	Water Color	Green
I36	25 Aug 2020	Wave Ht Low (ft)	3
I36	25 Aug 2020	Wave Period (sec)	9
I36	25 Aug 2020	Sea State	Calm
I36	25 Aug 2020	High Tide (ft)	5.2
I36	25 Aug 2020	High Tide Time	1508
I36	25 Aug 2020	Low Tide (ft)	2.01
I36	25 Aug 2020	Low Tide Time	824
I36	25 Aug 2020	Comments	none
I37	25 Aug 2020	Depth (m)	12
I37	25 Aug 2020	Arrive Time	1005
I37	25 Aug 2020	Depart Time	1009
I37	25 Aug 2020	Air Temp (C)	22
I37	25 Aug 2020	Weather	Overcast
I37	25 Aug 2020	Visibility (mi)	5
I37	25 Aug 2020	Wind Speed (kts)	6
I37	25 Aug 2020	Wind Dir	W
I37	25 Aug 2020	Water Color	Green
I37	25 Aug 2020	Wave Ht Low (ft)	3
I37	25 Aug 2020	Wave Period (sec)	9
I37	25 Aug 2020	Sea State	Calm
I37	25 Aug 2020	High Tide (ft)	5.2
I37	25 Aug 2020	High Tide Time	1508
I37	25 Aug 2020	Low Tide (ft)	2.01
I37	25 Aug 2020	Low Tide Time	824
I37	25 Aug 2020	Comments	none
I38	25 Aug 2020	Depth (m)	13
I38	25 Aug 2020	Arrive Time	1321
I38	25 Aug 2020	Depart Time	1321
I38	25 Aug 2020	Air Temp (C)	22
I38	25 Aug 2020	Weather	Overcast
I38	25 Aug 2020	Visibility (mi)	7
I38	25 Aug 2020	Wind Speed (kts)	13
I38	25 Aug 2020	Wind Dir	NW
I38	25 Aug 2020	Water Color	Green
I38	25 Aug 2020	Wave Ht Low (ft)	3
I38	25 Aug 2020	Wave Period (sec)	9
I38	25 Aug 2020	Sea State	Calm
I38	25 Aug 2020	High Tide (ft)	5.2
I38	25 Aug 2020	High Tide Time	1508

Station	Date	Parameter	Value
I38	25 Aug 2020	Low Tide (ft)	2.01
I38	25 Aug 2020	Low Tide Time	824
I38	25 Aug 2020	Comments	none
I4	26 Aug 2020	Depth (m)	20
I4	26 Aug 2020	Arrive Time	1022
I4	26 Aug 2020	Depart Time	1026
I4	26 Aug 2020	Air Temp (C)	21
I4	26 Aug 2020	Weather	Cloudy
I4	26 Aug 2020	Visibility (mi)	7
I4	26 Aug 2020	Wind Speed (kts)	3
I4	26 Aug 2020	Wind Dir	W
I4	26 Aug 2020	Water Color	Green
I4	26 Aug 2020	Wave Ht Low (ft)	3
I4	26 Aug 2020	Wave Period (sec)	9
I4	26 Aug 2020	Sea State	Confused swell
I4	26 Aug 2020	High Tide (ft)	3.21
I4	26 Aug 2020	High Tide Time	511
I4	26 Aug 2020	Low Tide (ft)	2.48
I4	26 Aug 2020	Low Tide Time	944
I4	26 Aug 2020	Comments	none
I5	26 Aug 2020	Depth (m)	15
I5	26 Aug 2020	Arrive Time	1034
I5	26 Aug 2020	Depart Time	1036
I5	26 Aug 2020	Air Temp (C)	21
I5	26 Aug 2020	Weather	Cloudy
I5	26 Aug 2020	Visibility (mi)	7
I5	26 Aug 2020	Wind Speed (kts)	13
I5	26 Aug 2020	Wind Dir	W
I5	26 Aug 2020	Water Color	Greenish-Brown
I5	26 Aug 2020	Wave Ht Low (ft)	3
I5	26 Aug 2020	Wave Period (sec)	9
I5	26 Aug 2020	Sea State	Confused swell
I5	26 Aug 2020	High Tide (ft)	3.21
I5	26 Aug 2020	High Tide Time	511
I5	26 Aug 2020	Low Tide (ft)	2.48
I5	26 Aug 2020	Low Tide Time	944
I5	26 Aug 2020	Comments	none
I6	26 Aug 2020	Depth (m)	26
I6	26 Aug 2020	Arrive Time	1057
I6	26 Aug 2020	Depart Time	1101
I6	26 Aug 2020	Air Temp (C)	21
I6	26 Aug 2020	Weather	Cloudy
I6	26 Aug 2020	Visibility (mi)	7
I6	26 Aug 2020	Wind Speed (kts)	9
I6	26 Aug 2020	Wind Dir	N
I6	26 Aug 2020	Water Color	Greenish-Brown
I6	26 Aug 2020	Wave Ht Low (ft)	3
I6	26 Aug 2020	Wave Period (sec)	9
I6	26 Aug 2020	Sea State	Confused swell
I6	26 Aug 2020	High Tide (ft)	3.21
I6	26 Aug 2020	High Tide Time	511
I6	26 Aug 2020	Low Tide (ft)	2.48
I6	26 Aug 2020	Low Tide Time	944
I6	26 Aug 2020	Comments	none
I7	26 Aug 2020	Depth (m)	52
I7	26 Aug 2020	Arrive Time	852
I7	26 Aug 2020	Depart Time	856

Station	Date	Parameter	Value
I7	26 Aug 2020	Air Temp (C)	22
I7	26 Aug 2020	Weather	Cloudy
I7	26 Aug 2020	Visibility (mi)	5
I7	26 Aug 2020	Wind Speed (kts)	2
I7	26 Aug 2020	Wind Dir	W
I7	26 Aug 2020	Water Color	Bluish-Green
I7	26 Aug 2020	Wave Ht Low (ft)	3
I7	26 Aug 2020	Wave Period (sec)	9
I7	26 Aug 2020	Sea State	Heavy chop
I7	26 Aug 2020	High Tide (ft)	3.21
I7	26 Aug 2020	High Tide Time	511
I7	26 Aug 2020	Low Tide (ft)	2.48
I7	26 Aug 2020	Low Tide Time	944
I7	26 Aug 2020	Comments	none
I8	26 Aug 2020	Depth (m)	36
I8	26 Aug 2020	Arrive Time	1152
I8	26 Aug 2020	Depart Time	1158
I8	26 Aug 2020	Air Temp (C)	20
I8	26 Aug 2020	Weather	Partly Cloudy
I8	26 Aug 2020	Visibility (mi)	7
I8	26 Aug 2020	Wind Speed (kts)	10
I8	26 Aug 2020	Wind Dir	W
I8	26 Aug 2020	Water Color	Greenish-Brown
I8	26 Aug 2020	Wave Ht Low (ft)	3
I8	26 Aug 2020	Wave Period (sec)	9
I8	26 Aug 2020	Sea State	Confused swell
I8	26 Aug 2020	High Tide (ft)	3.21
I8	26 Aug 2020	High Tide Time	511
I8	26 Aug 2020	Low Tide (ft)	2.48
I8	26 Aug 2020	Low Tide Time	944
I8	26 Aug 2020	Comments	none
I9	26 Aug 2020	Depth (m)	31
I9	26 Aug 2020	Arrive Time	1139
I9	26 Aug 2020	Depart Time	1142
I9	26 Aug 2020	Air Temp (C)	20
I9	26 Aug 2020	Weather	Partly Cloudy
I9	26 Aug 2020	Visibility (mi)	7
I9	26 Aug 2020	Wind Speed (kts)	5
I9	26 Aug 2020	Wind Dir	S
I9	26 Aug 2020	Water Color	Greenish-Brown
I9	26 Aug 2020	Wave Ht Low (ft)	3
I9	26 Aug 2020	Wave Period (sec)	9
I9	26 Aug 2020	Sea State	Confused swell
I9	26 Aug 2020	High Tide (ft)	3.21
I9	26 Aug 2020	High Tide Time	511
I9	26 Aug 2020	Low Tide (ft)	2.48
I9	26 Aug 2020	Low Tide Time	944
I9	26 Aug 2020	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	26 Aug 2020	1	21.59	89.92	7.2	33.59	8.1	23.3	0.48
I1	26 Aug 2020	2	21.59	90.83	7.2	33.59	8.1	23.3	0.49
I1	26 Aug 2020	3	21.58	91.01	7.2	33.59	8.1	23.3	0.50
I1	26 Aug 2020	4	21.58	91.17	7.2	33.59	8.1	23.3	0.51
I1	26 Aug 2020	5	21.56	91.37	7.2	33.59	8.1	23.3	0.51
I1	26 Aug 2020	6	21.48	91.40	7.2	33.60	8.1	23.3	0.52
I1	26 Aug 2020	7	21.17	91.43	7.2	33.59	8.1	23.4	0.54
I1	26 Aug 2020	8	21.14	91.46	7.3	33.58	8.1	23.4	0.53
I1	26 Aug 2020	9	20.89	91.50	7.2	33.58	8.1	23.4	0.54
I1	26 Aug 2020	10	20.68	91.51	7.3	33.56	8.1	23.5	0.56
I1	26 Aug 2020	11	20.22	91.59	7.3	33.58	8.1	23.6	0.56
I1	26 Aug 2020	12	19.29	91.65	7.4	33.56	8.1	23.9	0.57
I1	26 Aug 2020	13	18.98	91.85	7.6	33.53	8.1	23.9	0.58
I1	26 Aug 2020	14	18.91	92.03	7.6	33.52	8.1	23.9	0.56
I1	26 Aug 2020	15	18.71	92.04	7.6	33.51	8.1	24.0	0.57
I1	26 Aug 2020	16	18.75	92.03	7.6	33.50	8.1	23.9	0.60
I1	26 Aug 2020	17	18.66	92.01	7.6	33.51	8.1	24.0	0.62
I1	26 Aug 2020	18	18.36	91.97	7.8	33.49	8.1	24.0	0.64
I1	26 Aug 2020	19	18.45	91.96	7.7	33.49	8.1	24.0	0.66
I1	26 Aug 2020	20	17.61	91.88	7.8	33.48	8.1	24.2	0.77
I1	26 Aug 2020	21	17.13	91.69	8.0	33.43	8.1	24.3	0.88
I1	26 Aug 2020	22	17.23	91.78	7.9	33.46	8.1	24.3	0.89
I1	26 Aug 2020	23	16.11	91.49	8.1	33.42	8.1	24.5	1.12
I1	26 Aug 2020	24	15.48	91.00	8.3	33.38	8.1	24.6	1.31
I1	26 Aug 2020	25	15.42	90.42	8.5	33.38	8.1	24.6	1.48
I1	26 Aug 2020	26	15.36	90.05	8.6	33.38	8.1	24.6	1.54
I1	26 Aug 2020	27	15.18	89.91	8.5	33.38	8.1	24.7	1.65
I1	26 Aug 2020	28	15.05	89.86	8.6	33.38	8.1	24.7	1.70
I1	26 Aug 2020	29	15.13	89.86	8.5	33.38	8.1	24.7	1.72
I1	26 Aug 2020	30	14.80	89.98	8.4	33.40	8.1	24.8	1.73
I1	26 Aug 2020	31	14.57	90.06	8.4	33.40	8.1	24.8	1.99
I1	26 Aug 2020	32	14.51	89.27	8.4	33.40	8.1	24.8	2.26
I1	26 Aug 2020	33	14.50	88.99	8.4	33.40	8.1	24.8	2.44
I1	26 Aug 2020	34	14.45	89.01	8.4	33.40	8.1	24.9	2.45
I1	26 Aug 2020	35	14.42	88.99	8.4	33.40	8.1	24.9	2.54
I1	26 Aug 2020	36	14.45	88.97	8.3	33.40	8.1	24.9	2.56
I1	26 Aug 2020	37	14.23	88.82	8.3	33.41	8.1	24.9	2.76
I1	26 Aug 2020	38	14.15	88.49	8.2	33.41	8.1	24.9	3.00
I1	26 Aug 2020	39	14.06	88.33	8.2	33.41	8.1	24.9	3.27
I1	26 Aug 2020	40	13.87	88.11	8.0	33.44	8.1	25.0	3.65
I1	26 Aug 2020	41	13.63	87.62	7.9	33.44	8.1	25.1	3.63
I1	26 Aug 2020	42	13.66	87.80	7.8	33.44	8.1	25.1	3.69
I1	26 Aug 2020	43	13.52	88.08	7.7	33.44	8.1	25.1	3.47
I1	26 Aug 2020	44	13.53	88.33	7.6	33.44	8.0	25.1	3.38
I1	26 Aug 2020	45	13.53	88.46	7.6	33.44	8.0	25.1	3.21
I1	26 Aug 2020	46	13.53	88.49	7.6	33.44	8.0	25.1	3.20
I1	26 Aug 2020	47	13.53	88.49	7.6	33.45	8.0	25.1	3.22
I1	26 Aug 2020	48	13.52	88.50	7.6	33.45	8.0	25.1	3.14
I1	26 Aug 2020	49	13.52	88.55	7.5	33.45	8.0	25.1	3.08
I1	26 Aug 2020	50	13.50	88.58	7.5	33.45	8.0	25.1	2.98
I1	26 Aug 2020	51	13.44	88.90	7.4	33.45	8.0	25.1	2.87
I1	26 Aug 2020	52	13.29	89.46	7.3	33.47	8.0	25.1	2.58
I1	26 Aug 2020	53	13.15	89.85	7.1	33.48	8.0	25.2	2.13
I1	26 Aug 2020	54	13.11	90.30	7.1	33.48	8.0	25.2	1.94
I1	26 Aug 2020	55	13.15	90.34	7.0	33.47	8.0	25.2	1.87
I1	26 Aug 2020	56	12.95	90.54	6.9	33.50	8.0	25.2	1.67

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I1	26 Aug 2020	57	12.95	90.82	6.7	33.49	8.0	25.2	1.52
I1	26 Aug 2020	58	12.24	90.94	6.2	33.60	7.9	25.5	1.21
I1	26 Aug 2020	59	11.91	91.55	5.7	33.63	7.9	25.5	0.92
I1	26 Aug 2020	60	11.80	91.93	5.4	33.64	7.8	25.6	0.74
I10	26 Aug 2020	1	21.04	82.79	8.0	33.59	8.2	23.4	1.11
I10	26 Aug 2020	2	21.01	83.96	8.0	33.60	8.2	23.4	1.14
I10	26 Aug 2020	3	20.01	83.75	8.1	33.59	8.2	23.7	1.34
I10	26 Aug 2020	4	18.62	83.61	8.4	33.52	8.2	24.0	1.62
I10	26 Aug 2020	5	16.54	85.31	8.5	33.49	8.2	24.5	1.61
I10	26 Aug 2020	6	15.90	86.51	8.6	33.42	8.1	24.6	1.58
I10	26 Aug 2020	7	15.58	86.44	8.4	33.44	8.1	24.6	1.69
I10	26 Aug 2020	8	15.42	86.11	8.3	33.44	8.1	24.7	1.89
I10	26 Aug 2020	9	15.28	85.73	8.1	33.47	8.1	24.7	2.18
I10	26 Aug 2020	10	15.21	85.31	8.0	33.48	8.1	24.8	2.46
I10	26 Aug 2020	11	15.16	84.85	7.9	33.50	8.1	24.8	2.60
I10	26 Aug 2020	12	15.07	84.81	7.7	33.51	8.1	24.8	2.85
I10	26 Aug 2020	13	14.97	84.66	7.6	33.52	8.1	24.8	2.97
I10	26 Aug 2020	14	14.68	84.95	7.4	33.53	8.1	24.9	2.90
I10	26 Aug 2020	15	14.59	85.41	7.4	33.53	8.0	24.9	2.91
I10	26 Aug 2020	16	14.43	85.78	7.3	33.53	8.0	25.0	2.71
I10	26 Aug 2020	17	14.40	85.94	7.2	33.53	8.0	25.0	2.55
I10	26 Aug 2020	18	14.37	86.42	7.2	33.53	8.0	25.0	2.36
I10	26 Aug 2020	19	14.33	86.80	7.2	33.53	8.0	25.0	2.08
I11	26 Aug 2020	1	20.00	82.52	8.8	33.57	8.2	23.7	1.12
I11	26 Aug 2020	2	19.97	82.44	8.8	33.57	8.2	23.7	1.17
I11	26 Aug 2020	3	19.79	81.83	8.8	33.57	8.2	23.7	1.44
I11	26 Aug 2020	4	19.45	78.68	8.8	33.58	8.2	23.8	2.51
I11	26 Aug 2020	5	18.81	74.50	8.6	33.59	8.2	24.0	4.59
I11	26 Aug 2020	6	18.56	74.69	8.4	33.57	8.2	24.0	6.07
I11	26 Aug 2020	7	17.72	75.26	8.1	33.59	8.2	24.3	6.72
I11	26 Aug 2020	8	17.01	76.68	7.8	33.56	8.1	24.4	6.55
I11	26 Aug 2020	9	16.53	79.49	7.7	33.55	8.1	24.5	5.94
I11	26 Aug 2020	10	16.16	80.69	7.7	33.54	8.1	24.6	5.50
I11	26 Aug 2020	11	15.88	80.77	7.5	33.53	8.1	24.6	5.34
I11	26 Aug 2020	12	15.00	81.94	7.3	33.55	8.1	24.9	4.38
I11	26 Aug 2020	13	15.00	84.05	7.2	33.53	8.0	24.8	2.86
I12	24 Aug 2020	1	23.15	86.63	8.0	33.68	8.3	22.9	1.06
I12	24 Aug 2020	2	23.15	86.38	8.0	33.68	8.3	22.9	1.05
I12	24 Aug 2020	3	23.15	86.42	7.9	33.68	8.2	22.9	1.11
I12	24 Aug 2020	4	23.08	86.49	8.0	33.68	8.2	22.9	1.28
I12	24 Aug 2020	5	22.94	86.40	8.0	33.68	8.2	22.9	1.39
I12	24 Aug 2020	6	22.75	86.59	7.9	33.68	8.2	23.0	1.35
I12	24 Aug 2020	7	22.49	87.22	8.0	33.67	8.2	23.1	1.42
I12	24 Aug 2020	8	22.16	86.97	8.0	33.65	8.2	23.1	1.57
I12	24 Aug 2020	9	21.32	85.89	8.1	33.67	8.2	23.4	1.80
I12	24 Aug 2020	10	19.84	84.55	8.6	33.61	8.2	23.7	2.12
I12	24 Aug 2020	11	19.80	85.08	8.5	33.58	8.2	23.7	2.28
I12	24 Aug 2020	12	17.78	84.78	8.8	33.58	8.2	24.2	2.43
I12	24 Aug 2020	13	17.25	84.73	9.1	33.47	8.2	24.3	2.53
I12	24 Aug 2020	14	16.72	85.00	9.0	33.49	8.2	24.4	2.44
I12	24 Aug 2020	15	16.34	85.39	9.0	33.46	8.2	24.5	2.53
I12	24 Aug 2020	16	15.79	85.02	8.7	33.51	8.2	24.7	2.84
I12	24 Aug 2020	17	15.60	83.75	8.4	33.53	8.2	24.7	3.13
I12	24 Aug 2020	18	15.52	83.64	8.3	33.53	8.2	24.7	3.21
I12	24 Aug 2020	19	15.46	84.00	8.2	33.53	8.2	24.7	3.10
I12	24 Aug 2020	20	15.18	84.64	8.3	33.51	8.2	24.8	3.03
I12	24 Aug 2020	21	14.99	85.33	8.3	33.49	8.2	24.8	2.84
I12	24 Aug 2020	22	14.92	85.48	8.3	33.50	8.2	24.8	2.99

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I12	24 Aug 2020	23	14.80	84.98	8.1	33.52	8.2	24.9	2.89
I12	24 Aug 2020	24	14.81	85.04	8.0	33.53	8.1	24.9	2.89
I12	24 Aug 2020	25	14.82	85.14	7.8	33.55	8.1	24.9	2.81
I12	24 Aug 2020	26	14.50	85.34	7.6	33.56	8.1	25.0	2.62
I12	24 Aug 2020	27	14.27	85.86	7.4	33.55	8.1	25.0	2.42
I12	24 Aug 2020	28	14.24	86.15	7.3	33.54	8.1	25.0	2.34
I13	24 Aug 2020	1	23.77	89.92	7.5	33.71	8.2	22.7	0.54
I13	24 Aug 2020	2	23.75	89.88	7.5	33.71	8.2	22.7	0.57
I13	24 Aug 2020	3	23.73	89.87	7.5	33.71	8.2	22.7	0.63
I13	24 Aug 2020	4	23.73	89.81	7.5	33.71	8.2	22.7	0.66
I13	24 Aug 2020	5	23.60	89.62	7.5	33.71	8.2	22.8	0.73
I13	24 Aug 2020	6	23.00	88.66	7.7	33.69	8.2	22.9	0.96
I13	24 Aug 2020	7	21.76	87.63	8.1	33.68	8.2	23.3	1.23
I13	24 Aug 2020	8	21.10	86.07	8.5	33.62	8.3	23.4	1.60
I13	24 Aug 2020	9	20.51	84.53	8.6	33.61	8.3	23.6	2.19
I13	24 Aug 2020	10	20.44	83.74	8.6	33.60	8.3	23.6	2.50
I13	24 Aug 2020	11	20.22	83.41	8.7	33.60	8.3	23.6	2.87
I13	24 Aug 2020	12	19.61	82.96	8.6	33.60	8.3	23.8	3.18
I13	24 Aug 2020	13	18.61	81.94	8.8	33.56	8.2	24.0	3.45
I13	24 Aug 2020	14	17.96	81.97	8.9	33.54	8.2	24.2	3.64
I13	24 Aug 2020	15	17.58	82.26	8.8	33.55	8.2	24.3	3.66
I13	24 Aug 2020	16	16.61	83.29	8.8	33.51	8.2	24.5	3.25
I13	24 Aug 2020	17	16.41	84.56	8.8	33.50	8.2	24.5	3.06
I13	24 Aug 2020	18	15.96	85.20	8.9	33.48	8.2	24.6	2.87
I13	24 Aug 2020	19	15.60	85.17	8.8	33.48	8.2	24.7	3.02
I13	24 Aug 2020	20	15.23	85.05	8.7	33.48	8.2	24.8	3.16
I13	24 Aug 2020	21	14.85	85.05	8.6	33.47	8.2	24.8	3.49
I13	24 Aug 2020	22	14.42	84.95	8.4	33.47	8.2	24.9	3.87
I13	24 Aug 2020	23	14.06	84.77	8.1	33.46	8.2	25.0	4.32
I13	24 Aug 2020	24	13.93	85.07	7.9	33.47	8.1	25.0	4.32
I13	24 Aug 2020	25	13.63	85.74	7.6	33.48	8.1	25.1	4.27
I13	24 Aug 2020	26	13.57	85.57	7.5	33.48	8.1	25.1	4.17
I13	24 Aug 2020	27	13.51	85.78	7.4	33.49	8.1	25.1	4.19
I13	24 Aug 2020	28	13.49	85.95	7.3	33.49	8.1	25.1	4.04
I13	24 Aug 2020	29	13.49	86.08	7.3	33.49	8.1	25.1	3.86
I13	24 Aug 2020	30	13.48	86.07	7.2	33.50	8.1	25.1	3.90
I13	24 Aug 2020	31	13.44	86.25	7.2	33.51	8.1	25.1	3.65
I13	24 Aug 2020	32	13.40	86.54	7.1	33.51	8.1	25.2	3.53
I13	24 Aug 2020	33	13.35	86.91	7.0	33.52	8.1	25.2	3.27
I13	24 Aug 2020	34	13.34	87.11	7.0	33.52	8.0	25.2	3.03
I13	24 Aug 2020	35	13.29	87.13	6.8	33.53	8.0	25.2	2.90
I13	24 Aug 2020	36	13.29	87.44	6.8	33.52	8.0	25.2	2.80
I13	24 Aug 2020	37	13.24	87.75	6.7	33.53	8.0	25.2	2.53
I13	24 Aug 2020	38	13.22	87.91	6.7	33.52	8.0	25.2	2.32
I14	24 Aug 2020	1	23.25	85.67	8.0	33.67	8.3	22.9	0.97
I14	24 Aug 2020	2	23.25	85.56	8.0	33.67	8.3	22.9	0.98
I14	24 Aug 2020	3	23.21	85.51	8.0	33.67	8.3	22.9	1.14
I14	24 Aug 2020	4	23.05	85.43	8.0	33.68	8.3	22.9	1.32
I14	24 Aug 2020	5	22.83	86.00	8.0	33.67	8.3	23.0	1.33
I14	24 Aug 2020	6	22.69	87.22	7.9	33.67	8.2	23.0	1.29
I14	24 Aug 2020	7	22.48	87.42	7.8	33.67	8.2	23.1	1.36
I14	24 Aug 2020	8	20.82	85.76	8.3	33.64	8.3	23.5	1.83
I14	24 Aug 2020	9	20.58	85.04	8.5	33.61	8.3	23.5	2.11
I14	24 Aug 2020	10	20.21	85.26	8.7	33.59	8.3	23.6	2.17
I14	24 Aug 2020	11	20.14	85.46	8.6	33.59	8.3	23.6	2.28
I14	24 Aug 2020	12	19.15	85.16	8.5	33.60	8.3	23.9	2.41
I14	24 Aug 2020	13	16.70	84.98	9.0	33.50	8.2	24.4	2.44
I14	24 Aug 2020	14	16.27	85.49	9.0	33.47	8.2	24.5	2.47
I14	24 Aug 2020	15	15.67	85.23	9.0	33.47	8.2	24.6	2.74

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I14	24 Aug 2020	16	15.56	85.24	8.9	33.47	8.2	24.7	2.83
I14	24 Aug 2020	17	15.16	85.01	8.7	33.48	8.2	24.8	2.89
I14	24 Aug 2020	18	15.03	84.85	8.3	33.51	8.2	24.8	2.99
I14	24 Aug 2020	19	14.98	84.90	8.0	33.53	8.2	24.8	2.95
I14	24 Aug 2020	20	14.72	84.80	7.8	33.54	8.1	24.9	2.96
I14	24 Aug 2020	21	14.66	84.95	7.7	33.54	8.1	24.9	3.05
I14	24 Aug 2020	22	14.63	85.17	7.6	33.55	8.1	24.9	2.89
I14	24 Aug 2020	23	14.37	85.71	7.5	33.55	8.1	25.0	2.66
I14	24 Aug 2020	24	14.27	85.91	7.5	33.54	8.1	25.0	2.63
I14	24 Aug 2020	25	14.22	85.99	7.4	33.54	8.1	25.0	2.70
I14	24 Aug 2020	26	14.20	86.05	7.4	33.54	8.1	25.0	2.63
I14	24 Aug 2020	27	14.21	86.20	7.4	33.54	8.1	25.0	2.50
I14	24 Aug 2020	28	14.19	86.30	7.3	33.54	8.1	25.0	2.35
I15	24 Aug 2020	1	23.43	88.09	7.8	33.69	8.2	22.8	0.85
I15	24 Aug 2020	2	23.43	88.21	7.8	33.70	8.2	22.8	0.85
I15	24 Aug 2020	3	23.40	88.05	7.8	33.69	8.2	22.8	0.96
I15	24 Aug 2020	4	23.33	88.12	7.8	33.70	8.2	22.8	1.03
I15	24 Aug 2020	5	23.29	88.07	7.8	33.69	8.2	22.9	1.09
I15	24 Aug 2020	6	23.18	88.07	7.8	33.69	8.2	22.9	1.11
I15	24 Aug 2020	7	22.77	88.17	7.8	33.68	8.2	23.0	1.21
I15	24 Aug 2020	8	22.16	86.98	7.9	33.69	8.2	23.2	1.45
I15	24 Aug 2020	9	20.18	84.58	8.5	33.63	8.2	23.7	2.18
I15	24 Aug 2020	10	19.66	84.70	8.4	33.58	8.2	23.8	2.39
I15	24 Aug 2020	11	16.80	84.94	8.3	33.50	8.2	24.4	2.37
I15	24 Aug 2020	12	15.45	84.89	8.3	33.34	8.2	24.6	2.40
I15	24 Aug 2020	13	15.49	85.08	8.3	33.35	8.2	24.6	2.42
I15	24 Aug 2020	14	15.58	85.01	8.4	33.44	8.2	24.6	2.62
I15	24 Aug 2020	15	15.56	84.51	8.4	33.49	8.2	24.7	2.77
I15	24 Aug 2020	16	15.00	84.89	8.4	33.47	8.2	24.8	2.76
I15	24 Aug 2020	17	14.84	85.53	8.3	33.48	8.2	24.8	2.73
I15	24 Aug 2020	18	14.78	85.11	7.9	33.54	8.1	24.9	2.78
I15	24 Aug 2020	19	14.79	84.77	7.7	33.55	8.1	24.9	2.87
I15	24 Aug 2020	20	14.72	84.75	7.6	33.55	8.1	24.9	3.00
I15	24 Aug 2020	21	14.64	84.82	7.6	33.54	8.1	24.9	3.04
I15	24 Aug 2020	22	14.53	85.05	7.7	33.53	8.1	24.9	3.00
I15	24 Aug 2020	23	14.40	85.43	7.8	33.52	8.1	25.0	2.97
I15	24 Aug 2020	24	14.42	85.67	7.7	33.54	8.1	25.0	2.82
I15	24 Aug 2020	25	14.42	85.90	7.6	33.54	8.1	25.0	2.70
I15	24 Aug 2020	26	14.36	85.96	7.5	33.55	8.1	25.0	2.60
I15	24 Aug 2020	27	14.29	85.98	7.4	33.55	8.1	25.0	2.60
I15	24 Aug 2020	28	14.18	86.04	7.4	33.55	8.1	25.0	2.65
I15	24 Aug 2020	29	14.12	86.13	7.4	33.54	8.1	25.0	2.66
I15	24 Aug 2020	30	13.98	86.16	7.3	33.53	8.1	25.1	2.75
I15	24 Aug 2020	31	13.78	86.31	7.3	33.52	8.1	25.1	2.80
I16	24 Aug 2020	1	23.21	85.31	8.1	33.67	8.3	22.9	1.38
I16	24 Aug 2020	2	23.21	85.23	8.0	33.67	8.3	22.9	1.44
I16	24 Aug 2020	3	23.20	85.25	8.0	33.67	8.3	22.9	1.53
I16	24 Aug 2020	4	23.18	85.29	8.0	33.67	8.3	22.9	1.61
I16	24 Aug 2020	5	23.12	85.03	8.0	33.67	8.3	22.9	1.74
I16	24 Aug 2020	6	22.77	85.47	8.0	33.68	8.3	23.0	1.59
I16	24 Aug 2020	7	22.56	86.77	8.0	33.67	8.2	23.0	1.48
I16	24 Aug 2020	8	22.27	87.63	8.0	33.67	8.2	23.1	1.55
I16	24 Aug 2020	9	21.72	86.86	8.1	33.64	8.2	23.3	1.72
I16	24 Aug 2020	10	20.72	86.04	8.3	33.63	8.2	23.5	1.92
I16	24 Aug 2020	11	20.42	86.00	8.2	33.60	8.2	23.6	2.05
I16	24 Aug 2020	12	17.64	85.54	8.6	33.59	8.2	24.3	2.26
I16	24 Aug 2020	13	16.14	85.44	9.0	33.48	8.2	24.5	2.37
I16	24 Aug 2020	14	15.84	85.38	9.0	33.46	8.2	24.6	2.50
I16	24 Aug 2020	15	15.64	85.43	9.0	33.45	8.2	24.6	2.63

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I16	24 Aug 2020	16	15.43	85.30	8.8	33.47	8.2	24.7	2.87
I16	24 Aug 2020	17	15.06	84.63	8.6	33.49	8.2	24.8	3.05
I16	24 Aug 2020	18	15.01	84.70	8.3	33.49	8.2	24.8	3.13
I16	24 Aug 2020	19	14.83	84.88	7.9	33.54	8.1	24.9	2.92
I16	24 Aug 2020	20	14.71	85.13	7.7	33.54	8.1	24.9	2.75
I16	24 Aug 2020	21	14.50	85.40	7.6	33.54	8.1	25.0	2.78
I16	24 Aug 2020	22	14.46	85.55	7.5	33.54	8.1	25.0	2.66
I16	24 Aug 2020	23	14.29	85.82	7.5	33.54	8.1	25.0	2.53
I16	24 Aug 2020	24	14.25	85.92	7.4	33.53	8.1	25.0	2.45
I16	24 Aug 2020	25	14.28	85.82	7.4	33.54	8.1	25.0	2.43
I16	24 Aug 2020	26	14.22	85.82	7.3	33.54	8.1	25.0	2.43
I16	24 Aug 2020	27	14.21	86.08	7.3	33.54	8.1	25.0	2.35
I16	24 Aug 2020	28	14.20	86.16	7.4	33.54	8.1	25.0	2.44
I17	24 Aug 2020	1	23.05	78.69	8.2	33.64	8.3	22.9	2.33
I17	24 Aug 2020	2	23.04	80.81	8.2	33.65	8.3	22.9	2.40
I17	24 Aug 2020	3	23.04	81.10	8.3	33.65	8.3	22.9	2.68
I17	24 Aug 2020	4	23.01	81.04	8.2	33.65	8.3	22.9	3.00
I17	24 Aug 2020	5	22.82	80.72	8.2	33.66	8.3	23.0	3.23
I17	24 Aug 2020	6	22.58	80.78	8.2	33.66	8.3	23.0	3.36
I17	24 Aug 2020	7	21.54	84.22	8.1	33.67	8.2	23.3	2.36
I17	24 Aug 2020	8	20.90	87.27	8.2	33.63	8.2	23.5	1.96
I17	24 Aug 2020	9	20.76	87.32	8.2	33.61	8.2	23.5	1.84
I17	24 Aug 2020	10	19.39	86.73	8.4	33.62	8.2	23.9	2.16
I17	24 Aug 2020	11	18.03	85.01	8.7	33.54	8.2	24.1	2.45
I17	24 Aug 2020	12	16.45	85.08	8.9	33.52	8.2	24.5	2.50
I17	24 Aug 2020	13	16.11	85.30	9.0	33.48	8.2	24.6	2.68
I17	24 Aug 2020	14	15.83	85.16	8.9	33.47	8.2	24.6	2.78
I17	24 Aug 2020	15	15.74	85.22	8.8	33.47	8.2	24.6	2.72
I17	24 Aug 2020	16	15.58	84.95	8.8	33.48	8.2	24.7	3.00
I17	24 Aug 2020	17	15.42	84.95	8.6	33.48	8.2	24.7	2.99
I17	24 Aug 2020	18	15.12	84.76	8.3	33.53	8.2	24.8	3.18
I17	24 Aug 2020	19	15.00	84.50	8.0	33.54	8.1	24.8	3.02
I17	24 Aug 2020	20	14.81	84.82	7.8	33.55	8.1	24.9	2.77
I17	24 Aug 2020	21	14.64	85.43	7.7	33.55	8.1	24.9	2.55
I17	24 Aug 2020	22	14.55	85.77	7.6	33.55	8.1	24.9	2.38
I17	24 Aug 2020	23	14.54	85.70	7.6	33.55	8.1	24.9	2.37
I17	24 Aug 2020	24	14.54	85.76	7.5	33.55	8.1	24.9	2.30
I17	24 Aug 2020	25	14.55	85.68	7.5	33.55	8.1	25.0	2.29
I18	24 Aug 2020	1	22.91	78.39	8.5	33.63	8.3	22.9	3.03
I18	24 Aug 2020	2	22.87	78.43	8.5	33.63	8.3	22.9	3.28
I18	24 Aug 2020	3	22.83	78.35	8.5	33.63	8.3	22.9	3.56
I18	24 Aug 2020	4	22.83	78.19	8.4	33.63	8.3	22.9	3.79
I18	24 Aug 2020	5	21.74	77.75	8.5	33.67	8.3	23.3	4.50
I18	24 Aug 2020	6	20.23	75.97	9.1	33.62	8.3	23.6	4.54
I18	24 Aug 2020	7	20.21	78.22	9.1	33.62	8.3	23.6	4.23
I18	24 Aug 2020	8	18.38	80.61	9.3	33.59	8.3	24.1	3.70
I18	24 Aug 2020	9	17.96	81.63	9.2	33.53	8.2	24.2	3.61
I18	24 Aug 2020	10	16.77	82.43	9.0	33.53	8.2	24.4	3.96
I18	24 Aug 2020	11	16.65	81.94	8.7	33.54	8.2	24.5	4.44
I18	24 Aug 2020	12	16.62	80.85	8.5	33.54	8.2	24.5	4.60
I18	24 Aug 2020	13	16.46	80.84	8.4	33.55	8.2	24.5	4.63
I18	24 Aug 2020	14	16.31	81.26	8.4	33.55	8.2	24.6	4.31
I18	24 Aug 2020	15	16.19	82.17	8.4	33.54	8.2	24.6	3.89
I18	24 Aug 2020	16	15.81	82.71	8.3	33.55	8.2	24.7	3.60
I18	24 Aug 2020	17	15.67	83.14	8.1	33.55	8.2	24.7	3.19
I18	24 Aug 2020	18	15.65	83.55	8.0	33.55	8.2	24.7	2.79
I18	24 Aug 2020	19	15.65	83.78	8.0	33.56	8.1	24.7	2.65
I2	26 Aug 2020	1	20.40	83.69	8.0	33.60	8.2	23.6	1.61

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I2	26 Aug 2020	2	20.29	84.06	8.0	33.59	8.2	23.6	1.66
I2	26 Aug 2020	3	19.93	85.40	8.0	33.58	8.2	23.7	1.67
I2	26 Aug 2020	4	19.28	87.22	8.1	33.54	8.2	23.8	1.33
I2	26 Aug 2020	5	19.07	89.35	8.0	33.53	8.2	23.9	1.10
I2	26 Aug 2020	6	18.16	90.62	8.1	33.48	8.1	24.1	0.78
I2	26 Aug 2020	7	17.92	91.07	8.0	33.48	8.1	24.1	0.69
I2	26 Aug 2020	8	17.62	91.20	8.0	33.46	8.1	24.2	0.64
I2	26 Aug 2020	9	17.54	91.13	8.0	33.45	8.1	24.2	0.67
I2	26 Aug 2020	10	17.26	91.07	8.1	33.45	8.1	24.3	0.72
I2	26 Aug 2020	11	16.97	90.96	8.2	33.43	8.1	24.3	0.80
I2	26 Aug 2020	12	16.42	90.91	8.3	33.41	8.1	24.4	0.91
I2	26 Aug 2020	13	16.23	90.95	8.3	33.40	8.1	24.5	1.05
I2	26 Aug 2020	14	15.99	90.83	8.3	33.40	8.1	24.5	1.12
I2	26 Aug 2020	15	15.84	90.42	8.4	33.39	8.1	24.5	1.31
I2	26 Aug 2020	16	15.64	90.02	8.4	33.38	8.1	24.6	1.53
I2	26 Aug 2020	17	15.30	89.82	8.4	33.38	8.1	24.7	1.74
I2	26 Aug 2020	18	15.18	89.61	8.5	33.39	8.1	24.7	1.88
I2	26 Aug 2020	19	15.05	89.44	8.5	33.39	8.1	24.7	2.00
I2	26 Aug 2020	20	14.83	88.85	8.4	33.40	8.1	24.8	2.08
I2	26 Aug 2020	21	14.75	88.70	8.5	33.40	8.1	24.8	2.26
I2	26 Aug 2020	22	14.73	88.18	8.4	33.41	8.1	24.8	2.36
I2	26 Aug 2020	23	14.72	87.82	8.5	33.42	8.1	24.8	2.56
I2	26 Aug 2020	24	14.67	87.61	8.4	33.43	8.1	24.8	2.76
I2	26 Aug 2020	25	14.60	86.98	8.2	33.45	8.1	24.9	2.91
I2	26 Aug 2020	26	14.20	86.86	7.9	33.49	8.1	25.0	3.00
I2	26 Aug 2020	27	14.09	87.08	7.7	33.49	8.1	25.0	3.00
I2	26 Aug 2020	28	13.92	87.35	7.6	33.49	8.0	25.0	2.86
I2	26 Aug 2020	29	13.79	87.44	7.4	33.49	8.0	25.1	2.81
I2	26 Aug 2020	30	13.57	87.98	7.3	33.49	8.0	25.1	2.72
I2	26 Aug 2020	31	13.51	88.41	7.2	33.49	8.0	25.1	2.54
I2	26 Aug 2020	32	13.45	88.55	7.1	33.49	8.0	25.1	2.33
I20	24 Aug 2020	1	23.81	89.61	7.3	33.71	8.2	22.7	0.56
I20	24 Aug 2020	2	23.81	90.24	7.2	33.71	8.2	22.7	0.57
I20	24 Aug 2020	3	23.79	90.25	7.2	33.71	8.2	22.7	0.57
I20	24 Aug 2020	4	23.78	89.82	7.3	33.71	8.2	22.7	0.62
I20	24 Aug 2020	5	22.87	89.67	7.8	33.69	8.2	23.0	0.83
I20	24 Aug 2020	6	22.17	87.33	8.3	33.63	8.2	23.1	1.15
I20	24 Aug 2020	7	22.17	86.69	8.3	33.63	8.2	23.1	1.29
I20	24 Aug 2020	8	21.33	86.32	8.5	33.63	8.2	23.4	1.71
I20	24 Aug 2020	9	21.18	85.45	8.6	33.60	8.2	23.4	2.05
I20	24 Aug 2020	10	19.29	83.53	9.1	33.63	8.2	23.9	2.82
I20	24 Aug 2020	11	18.62	80.65	9.4	33.56	8.2	24.0	3.44
I20	24 Aug 2020	12	18.63	80.25	9.4	33.54	8.2	24.0	3.84
I20	24 Aug 2020	13	18.18	80.08	9.4	33.55	8.2	24.1	4.06
I20	24 Aug 2020	14	17.98	79.69	9.4	33.54	8.2	24.2	3.93
I20	24 Aug 2020	15	17.70	80.48	9.3	33.54	8.2	24.2	4.07
I20	24 Aug 2020	16	17.15	80.10	9.2	33.55	8.2	24.4	4.37
I20	24 Aug 2020	17	16.48	79.44	9.0	33.54	8.2	24.5	4.67
I20	24 Aug 2020	18	15.76	80.18	8.8	33.50	8.2	24.7	4.64
I20	24 Aug 2020	19	15.24	81.59	8.7	33.48	8.2	24.8	4.62
I20	24 Aug 2020	20	14.93	82.92	8.5	33.44	8.2	24.8	4.42
I20	24 Aug 2020	21	14.56	83.96	8.5	33.44	8.2	24.9	4.62
I20	24 Aug 2020	22	14.43	83.59	8.4	33.47	8.1	24.9	5.02
I20	24 Aug 2020	23	14.41	82.11	8.3	33.47	8.1	24.9	5.25
I20	24 Aug 2020	24	14.36	81.65	8.1	33.48	8.1	24.9	5.34
I20	24 Aug 2020	25	14.17	81.63	8.0	33.48	8.1	25.0	5.42
I20	24 Aug 2020	26	13.99	81.96	7.9	33.49	8.1	25.0	5.29
I20	24 Aug 2020	27	13.89	82.85	7.9	33.48	8.1	25.0	4.99
I20	24 Aug 2020	28	13.78	83.15	7.8	33.49	8.1	25.1	4.81
I20	24 Aug 2020	29	13.68	83.73	7.6	33.49	8.1	25.1	4.74

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I20	24 Aug 2020	30	13.51	84.53	7.6	33.48	8.1	25.1	4.49
I20	24 Aug 2020	31	13.47	84.81	7.6	33.48	8.1	25.1	4.45
I20	24 Aug 2020	32	13.43	84.74	7.5	33.49	8.1	25.1	4.39
I20	24 Aug 2020	33	13.42	84.80	7.4	33.49	8.1	25.1	4.44
I20	24 Aug 2020	34	13.40	85.11	7.4	33.49	8.1	25.1	4.41
I20	24 Aug 2020	35	13.37	85.44	7.3	33.50	8.1	25.2	3.94
I20	24 Aug 2020	36	13.21	85.89	7.2	33.50	8.1	25.2	3.45
I20	24 Aug 2020	37	12.99	87.12	7.0	33.52	8.0	25.3	2.74
I20	24 Aug 2020	38	12.91	88.68	6.8	33.53	8.0	25.3	2.13
I20	24 Aug 2020	39	12.85	89.47	6.6	33.54	8.0	25.3	1.78
I20	24 Aug 2020	40	12.82	89.87	6.6	33.55	8.0	25.3	1.63
I20	24 Aug 2020	41	12.82	90.07	6.5	33.55	8.0	25.3	1.50
I20	24 Aug 2020	42	12.76	90.18	6.4	33.55	8.0	25.3	1.46
I20	24 Aug 2020	43	12.63	90.24	6.3	33.57	8.0	25.4	1.30
I20	24 Aug 2020	44	12.47	90.54	6.2	33.58	8.0	25.4	1.16
I20	24 Aug 2020	45	12.45	90.82	6.1	33.58	8.0	25.4	1.11
I20	24 Aug 2020	46	12.43	90.87	6.1	33.58	7.9	25.4	1.03
I20	24 Aug 2020	47	12.41	90.85	6.0	33.59	7.9	25.4	0.99
I20	24 Aug 2020	48	12.39	90.79	6.0	33.59	7.9	25.4	0.97
I20	24 Aug 2020	49	12.39	90.81	5.9	33.58	7.9	25.4	1.00
I20	24 Aug 2020	50	12.39	90.79	5.9	33.58	7.9	25.4	0.91
I20	24 Aug 2020	51	12.39	90.77	5.9	33.58	7.9	25.4	0.95
I20	24 Aug 2020	52	12.39	90.81	5.9	33.58	7.9	25.4	0.97
I20	24 Aug 2020	53	12.38	90.80	5.9	33.58	7.9	25.4	0.92
I20	24 Aug 2020	54	12.37	90.79	5.9	33.58	7.9	25.4	0.95
I20	24 Aug 2020	55	12.38	90.79	5.8	33.58	7.9	25.4	0.92
I21	24 Aug 2020	1	23.58	89.78	7.6	33.70	8.2	22.8	0.70
I21	24 Aug 2020	2	23.57	89.82	7.6	33.70	8.2	22.8	0.75
I21	24 Aug 2020	3	23.56	89.76	7.6	33.70	8.2	22.8	0.75
I21	24 Aug 2020	4	23.50	89.88	7.6	33.70	8.2	22.8	0.77
I21	24 Aug 2020	5	23.46	89.75	7.6	33.70	8.2	22.8	0.74
I21	24 Aug 2020	6	23.42	89.77	7.5	33.70	8.2	22.8	0.76
I21	24 Aug 2020	7	23.01	89.76	7.5	33.71	8.2	22.9	0.85
I21	24 Aug 2020	8	21.96	89.25	7.9	33.68	8.2	23.2	1.08
I21	24 Aug 2020	9	21.40	88.16	8.2	33.65	8.2	23.4	1.42
I21	24 Aug 2020	10	20.32	86.90	8.4	33.63	8.2	23.6	1.85
I21	24 Aug 2020	11	19.08	85.34	8.8	33.58	8.2	23.9	2.15
I21	24 Aug 2020	12	17.77	84.09	9.1	33.55	8.2	24.2	2.56
I21	24 Aug 2020	13	17.23	83.62	9.2	33.51	8.2	24.3	2.64
I21	24 Aug 2020	14	16.89	83.95	9.1	33.49	8.2	24.4	2.67
I21	24 Aug 2020	15	16.71	84.15	9.1	33.48	8.2	24.4	2.79
I21	24 Aug 2020	16	16.48	84.18	9.0	33.49	8.2	24.5	2.72
I21	24 Aug 2020	17	16.12	84.42	8.9	33.48	8.2	24.6	2.85
I21	24 Aug 2020	18	15.61	84.42	8.8	33.48	8.2	24.7	2.94
I21	24 Aug 2020	19	15.19	84.77	8.8	33.46	8.2	24.7	3.01
I21	24 Aug 2020	20	14.83	84.95	8.7	33.44	8.2	24.8	3.21
I21	24 Aug 2020	21	14.72	84.85	8.5	33.45	8.2	24.8	3.66
I21	24 Aug 2020	22	14.72	83.31	8.2	33.51	8.2	24.9	4.41
I21	24 Aug 2020	23	14.53	82.93	7.9	33.53	8.1	24.9	4.43
I21	24 Aug 2020	24	14.25	83.40	7.7	33.53	8.1	25.0	4.36
I21	24 Aug 2020	25	14.17	84.10	7.6	33.52	8.1	25.0	4.19
I21	24 Aug 2020	26	14.07	84.26	7.5	33.53	8.1	25.0	4.04
I21	24 Aug 2020	27	13.83	84.63	7.4	33.52	8.1	25.1	3.65
I21	24 Aug 2020	28	13.61	85.76	7.2	33.52	8.1	25.1	3.48
I21	24 Aug 2020	29	13.49	86.05	7.1	33.53	8.1	25.2	3.39
I21	24 Aug 2020	30	13.25	85.88	6.9	33.54	8.0	25.2	3.51
I21	24 Aug 2020	31	13.07	86.07	6.8	33.54	8.0	25.2	3.53
I21	24 Aug 2020	32	13.03	87.24	6.7	33.54	8.0	25.3	3.06
I21	24 Aug 2020	33	12.82	88.18	6.5	33.56	8.0	25.3	2.31
I21	24 Aug 2020	34	12.76	89.42	6.3	33.58	8.0	25.3	1.69

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I21	24 Aug 2020	35	12.72	89.85	6.2	33.58	8.0	25.4	1.40
I21	24 Aug 2020	36	12.70	89.99	6.1	33.59	8.0	25.4	1.21
I21	24 Aug 2020	37	12.70	90.11	6.0	33.59	8.0	25.4	1.11
I21	24 Aug 2020	38	12.70	90.05	6.0	33.59	8.0	25.4	1.05
I21	24 Aug 2020	39	12.69	90.01	5.9	33.59	8.0	25.4	1.06
I21	24 Aug 2020	40	12.68	90.04	5.9	33.59	8.0	25.4	0.97
I21	24 Aug 2020	41	12.70	89.95	5.9	33.59	8.0	25.4	0.96
I22	24 Aug 2020	1	23.28	83.43	8.2	33.65	8.3	22.8	1.95
I22	24 Aug 2020	2	23.29	83.56	8.2	33.65	8.3	22.8	2.01
I22	24 Aug 2020	3	23.29	83.67	8.1	33.65	8.3	22.8	2.11
I22	24 Aug 2020	4	23.20	83.82	8.2	33.66	8.3	22.9	2.16
I22	24 Aug 2020	5	22.94	84.23	8.1	33.67	8.3	22.9	2.03
I22	24 Aug 2020	6	22.07	85.57	8.2	33.68	8.2	23.2	1.91
I22	24 Aug 2020	7	21.69	87.14	8.2	33.65	8.2	23.3	1.86
I22	24 Aug 2020	8	21.05	87.49	8.4	33.65	8.2	23.5	2.10
I22	24 Aug 2020	9	19.82	85.88	8.9	33.62	8.3	23.8	2.65
I22	24 Aug 2020	10	18.99	83.50	9.0	33.57	8.3	23.9	3.16
I22	24 Aug 2020	11	17.38	83.00	9.1	33.55	8.3	24.3	3.38
I22	24 Aug 2020	12	16.76	82.60	9.2	33.51	8.2	24.4	3.73
I22	24 Aug 2020	13	16.26	82.32	9.0	33.47	8.2	24.5	3.98
I22	24 Aug 2020	14	15.58	82.08	8.6	33.41	8.2	24.6	3.90
I22	24 Aug 2020	15	15.64	83.13	8.3	33.48	8.2	24.7	3.71
I22	24 Aug 2020	16	15.53	82.66	8.2	33.53	8.2	24.7	3.54
I22	24 Aug 2020	17	15.32	83.26	8.0	33.55	8.2	24.8	3.17
I22	24 Aug 2020	18	15.26	83.32	7.9	33.55	8.1	24.8	3.44
I22	24 Aug 2020	19	15.07	83.08	7.8	33.55	8.1	24.8	3.29
I22	24 Aug 2020	20	14.90	83.49	7.8	33.55	8.1	24.9	3.18
I22	24 Aug 2020	21	14.69	84.33	7.8	33.54	8.1	24.9	2.87
I22	24 Aug 2020	22	14.60	85.47	7.7	33.54	8.1	24.9	2.42
I22	24 Aug 2020	23	14.55	85.08	7.5	33.55	8.1	24.9	2.29
I22	24 Aug 2020	24	14.37	85.86	7.4	33.54	8.1	25.0	2.21
I22	24 Aug 2020	25	14.35	86.15	7.4	33.54	8.1	25.0	2.12
I22	24 Aug 2020	26	14.33	86.00	7.3	33.54	8.1	25.0	2.04
I22	24 Aug 2020	27	14.31	86.03	7.2	33.55	8.1	25.0	1.96
I22	24 Aug 2020	28	14.28	86.19	7.3	33.55	8.1	25.0	1.82
I23	24 Aug 2020	1	22.91	80.35	8.6	33.64	8.3	22.9	2.36
I23	24 Aug 2020	2	22.89	80.39	8.6	33.64	8.3	22.9	2.55
I23	24 Aug 2020	3	22.87	80.27	8.6	33.64	8.3	22.9	2.73
I23	24 Aug 2020	4	22.56	80.22	8.6	33.64	8.3	23.0	3.20
I23	24 Aug 2020	5	22.39	79.12	8.6	33.63	8.3	23.1	3.81
I23	24 Aug 2020	6	21.44	77.92	8.8	33.66	8.3	23.4	4.15
I23	24 Aug 2020	7	19.97	78.08	9.5	33.63	8.3	23.7	4.01
I23	24 Aug 2020	8	19.34	79.70	9.6	33.60	8.3	23.9	3.72
I23	24 Aug 2020	9	18.00	80.54	9.4	33.55	8.3	24.2	4.06
I23	24 Aug 2020	10	17.32	81.49	9.2	33.53	8.2	24.3	4.44
I23	24 Aug 2020	11	17.01	79.79	8.8	33.55	8.2	24.4	4.71
I23	24 Aug 2020	12	16.81	80.18	8.7	33.55	8.2	24.4	4.80
I23	24 Aug 2020	13	16.26	80.60	8.6	33.55	8.2	24.6	4.78
I23	24 Aug 2020	14	16.08	81.23	8.6	33.53	8.2	24.6	4.56
I23	24 Aug 2020	15	16.06	80.88	8.4	33.54	8.2	24.6	4.50
I23	24 Aug 2020	16	16.00	81.56	8.3	33.55	8.2	24.6	4.04
I23	24 Aug 2020	17	15.94	82.23	8.2	33.56	8.2	24.7	3.71
I23	24 Aug 2020	18	15.75	82.45	8.1	33.57	8.2	24.7	3.38
I23	24 Aug 2020	19	15.72	82.98	8.0	33.57	8.2	24.7	2.95
I23	24 Aug 2020	20	15.57	83.52	7.9	33.57	8.1	24.7	2.69
I23	24 Aug 2020	21	15.57	84.17	7.9	33.57	8.1	24.7	2.36
I27	24 Aug 2020	1	23.14	80.61	8.5	33.63	8.3	22.9	2.49
I27	24 Aug 2020	2	23.12	80.58	8.5	33.63	8.3	22.9	2.61

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I27	24 Aug 2020	3	23.08	80.56	8.5	33.63	8.3	22.9	2.80
I27	24 Aug 2020	4	22.94	80.44	8.6	33.64	8.3	22.9	2.95
I27	24 Aug 2020	5	22.55	80.63	8.9	33.65	8.3	23.0	3.32
I27	24 Aug 2020	6	22.37	80.61	8.9	33.65	8.3	23.1	3.45
I27	24 Aug 2020	7	21.91	81.84	8.8	33.67	8.3	23.2	2.84
I27	24 Aug 2020	8	20.88	84.87	8.8	33.66	8.3	23.5	2.51
I27	24 Aug 2020	9	19.93	84.90	9.0	33.60	8.3	23.7	2.66
I27	24 Aug 2020	10	18.72	83.57	9.2	33.58	8.3	24.0	3.13
I27	24 Aug 2020	11	18.10	82.63	9.5	33.53	8.3	24.1	3.54
I27	24 Aug 2020	12	17.86	80.69	9.3	33.52	8.3	24.2	4.48
I27	24 Aug 2020	13	16.97	78.92	9.1	33.53	8.2	24.4	5.32
I27	24 Aug 2020	14	16.27	78.80	8.8	33.48	8.2	24.5	5.60
I27	24 Aug 2020	15	16.19	79.54	8.5	33.54	8.2	24.6	4.71
I27	24 Aug 2020	16	16.08	81.46	8.3	33.55	8.2	24.6	3.92
I27	24 Aug 2020	17	15.83	81.93	8.2	33.55	8.2	24.7	3.66
I27	24 Aug 2020	18	15.68	82.33	8.2	33.55	8.2	24.7	3.25
I27	24 Aug 2020	19	15.42	83.08	8.1	33.56	8.2	24.8	2.79
I27	24 Aug 2020	20	15.30	83.97	8.0	33.56	8.1	24.8	2.52
I27	24 Aug 2020	21	15.18	84.17	7.9	33.56	8.1	24.8	2.35
I27	24 Aug 2020	22	14.95	84.44	7.8	33.56	8.1	24.9	2.18
I27	24 Aug 2020	23	14.66	84.70	7.6	33.56	8.1	24.9	2.27
I27	24 Aug 2020	24	14.35	85.22	7.6	33.54	8.1	25.0	2.36
I27	24 Aug 2020	25	14.23	85.74	7.5	33.53	8.1	25.0	2.31
I27	24 Aug 2020	26	14.24	85.95	7.4	33.54	8.1	25.0	2.13
I27	24 Aug 2020	27	14.26	86.21	7.3	33.54	8.1	25.0	2.01
I27	24 Aug 2020	28	14.22	85.99	7.3	33.54	8.1	25.0	1.93
I28	25 Aug 2020	1	22.95	88.82	7.4	33.69	8.2	22.9	0.70
I28	25 Aug 2020	2	22.87	89.21	7.4	33.68	8.2	23.0	0.73
I28	25 Aug 2020	3	22.93	89.44	7.4	33.68	8.2	23.0	0.74
I28	25 Aug 2020	4	22.92	89.54	7.4	33.68	8.2	23.0	0.78
I28	25 Aug 2020	5	22.73	89.68	7.5	33.67	8.2	23.0	0.78
I28	25 Aug 2020	6	22.46	89.55	7.4	33.67	8.2	23.1	0.82
I28	25 Aug 2020	7	21.23	89.23	7.7	33.62	8.2	23.4	0.83
I28	25 Aug 2020	8	20.36	89.07	7.9	33.62	8.2	23.6	0.87
I28	25 Aug 2020	9	19.41	88.27	8.4	33.53	8.2	23.8	0.94
I28	25 Aug 2020	10	18.66	88.67	8.4	33.49	8.2	24.0	0.87
I28	25 Aug 2020	11	18.72	88.84	8.2	33.49	8.2	23.9	0.85
I28	25 Aug 2020	12	18.09	89.89	8.1	33.45	8.2	24.1	0.78
I28	25 Aug 2020	13	18.11	90.02	8.0	33.46	8.2	24.1	0.75
I28	25 Aug 2020	14	17.45	91.12	8.1	33.45	8.2	24.2	0.71
I28	25 Aug 2020	15	17.22	91.33	8.2	33.44	8.2	24.3	0.72
I28	25 Aug 2020	16	17.09	91.07	8.2	33.43	8.2	24.3	0.81
I28	25 Aug 2020	17	16.83	90.49	8.5	33.42	8.2	24.3	0.97
I28	25 Aug 2020	18	16.54	89.85	8.5	33.44	8.2	24.4	1.08
I28	25 Aug 2020	19	15.91	89.47	8.6	33.41	8.2	24.5	1.24
I28	25 Aug 2020	20	15.57	89.44	8.6	33.41	8.2	24.6	1.40
I28	25 Aug 2020	21	15.22	89.09	8.6	33.40	8.2	24.7	1.66
I28	25 Aug 2020	22	15.19	89.14	8.6	33.41	8.2	24.7	1.76
I28	25 Aug 2020	23	15.00	89.07	8.5	33.40	8.2	24.7	1.92
I28	25 Aug 2020	24	14.66	88.77	8.4	33.43	8.2	24.8	2.32
I28	25 Aug 2020	25	14.41	87.76	8.4	33.42	8.2	24.9	2.98
I28	25 Aug 2020	26	14.21	86.90	8.3	33.42	8.2	24.9	3.54
I28	25 Aug 2020	27	14.11	86.30	8.2	33.42	8.1	24.9	4.18
I28	25 Aug 2020	28	14.12	85.92	8.2	33.42	8.1	24.9	4.53
I28	25 Aug 2020	29	14.11	85.48	8.2	33.43	8.1	24.9	4.81
I28	25 Aug 2020	30	14.12	85.30	8.2	33.43	8.1	24.9	4.98
I28	25 Aug 2020	31	14.06	85.65	8.1	33.43	8.1	25.0	4.65
I28	25 Aug 2020	32	13.93	86.56	8.0	33.43	8.1	25.0	4.51
I28	25 Aug 2020	33	13.82	86.57	7.9	33.44	8.1	25.0	4.36
I28	25 Aug 2020	34	13.70	86.87	7.8	33.45	8.1	25.1	4.27

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I28	25 Aug 2020	35	13.70	86.77	7.7	33.45	8.1	25.1	4.15
I28	25 Aug 2020	36	13.49	87.06	7.6	33.45	8.1	25.1	3.91
I28	25 Aug 2020	37	13.42	87.69	7.6	33.44	8.1	25.1	3.91
I28	25 Aug 2020	38	13.36	88.33	7.5	33.44	8.1	25.1	3.64
I28	25 Aug 2020	39	13.29	88.39	7.5	33.44	8.1	25.1	3.53
I28	25 Aug 2020	40	13.31	88.49	7.4	33.46	8.1	25.1	3.43
I28	25 Aug 2020	41	13.32	88.24	7.3	33.47	8.1	25.1	3.31
I28	25 Aug 2020	42	13.34	88.14	7.3	33.48	8.0	25.1	3.15
I28	25 Aug 2020	43	13.35	87.97	7.2	33.49	8.0	25.2	3.04
I28	25 Aug 2020	44	13.35	87.90	7.2	33.49	8.0	25.2	2.98
I28	25 Aug 2020	45	13.34	87.82	7.1	33.49	8.0	25.2	2.94
I28	25 Aug 2020	46	13.34	87.91	7.1	33.50	8.0	25.2	2.86
I28	25 Aug 2020	47	13.28	88.05	7.1	33.49	8.0	25.2	2.66
I28	25 Aug 2020	48	13.17	89.05	7.0	33.49	8.0	25.2	2.32
I28	25 Aug 2020	49	13.03	89.84	6.9	33.51	8.0	25.2	1.95
I28	25 Aug 2020	50	12.81	90.30	6.6	33.54	8.0	25.3	1.54
I28	25 Aug 2020	51	12.80	90.39	6.4	33.54	8.0	25.3	1.38
I28	25 Aug 2020	52	12.74	90.33	6.3	33.54	8.0	25.3	1.30
I28	25 Aug 2020	53	12.65	90.24	6.3	33.55	8.0	25.3	1.22
I28	25 Aug 2020	54	12.62	90.36	6.2	33.55	7.9	25.3	1.17
I28	25 Aug 2020	55	12.55	90.27	6.1	33.56	7.9	25.4	1.09
I29	25 Aug 2020	1	23.07	86.09	8.0	33.66	8.3	22.9	0.88
I29	25 Aug 2020	2	23.04	86.23	8.0	33.66	8.3	22.9	0.91
I29	25 Aug 2020	3	23.03	86.27	8.0	33.66	8.3	22.9	0.95
I29	25 Aug 2020	4	22.99	86.22	7.9	33.66	8.3	22.9	1.05
I29	25 Aug 2020	5	22.88	86.14	7.9	33.66	8.3	23.0	1.07
I29	25 Aug 2020	6	20.81	87.04	8.1	33.66	8.2	23.5	1.12
I29	25 Aug 2020	7	20.12	87.12	8.4	33.56	8.2	23.6	1.48
I29	25 Aug 2020	8	19.26	84.60	8.8	33.55	8.2	23.8	2.17
I29	25 Aug 2020	9	19.18	81.93	9.1	33.54	8.3	23.9	2.84
I29	25 Aug 2020	10	18.56	79.87	9.3	33.57	8.3	24.0	3.54
I29	25 Aug 2020	11	17.98	79.79	9.4	33.54	8.3	24.2	3.96
I29	25 Aug 2020	12	17.94	81.35	9.3	33.53	8.2	24.2	4.06
I29	25 Aug 2020	13	17.06	82.22	9.1	33.53	8.2	24.4	3.70
I29	25 Aug 2020	14	16.68	83.12	9.1	33.50	8.2	24.4	3.76
I29	25 Aug 2020	15	15.85	82.34	8.9	33.52	8.2	24.6	4.07
I29	25 Aug 2020	16	15.35	82.26	8.7	33.48	8.2	24.7	4.29
I29	25 Aug 2020	17	14.95	83.40	8.6	33.47	8.2	24.8	4.55
I29	25 Aug 2020	18	14.80	83.54	8.4	33.47	8.2	24.8	4.60
I29	25 Aug 2020	19	14.54	84.03	8.3	33.47	8.2	24.9	4.41
I29	25 Aug 2020	20	14.45	84.84	8.2	33.47	8.2	24.9	4.30
I29	25 Aug 2020	21	14.04	85.26	8.0	33.45	8.1	25.0	4.49
I29	25 Aug 2020	22	14.03	85.30	8.0	33.45	8.1	25.0	4.59
I29	25 Aug 2020	23	13.92	85.35	7.9	33.47	8.1	25.0	4.21
I29	25 Aug 2020	24	13.93	86.10	7.8	33.48	8.1	25.0	3.92
I29	25 Aug 2020	25	13.83	86.46	7.6	33.50	8.1	25.1	3.53
I29	25 Aug 2020	26	13.82	86.60	7.5	33.49	8.1	25.1	3.30
I29	25 Aug 2020	27	13.77	86.74	7.5	33.50	8.1	25.1	3.16
I29	25 Aug 2020	28	13.73	87.14	7.4	33.50	8.1	25.1	3.01
I29	25 Aug 2020	29	13.39	87.56	7.3	33.50	8.1	25.2	2.89
I29	25 Aug 2020	30	13.39	87.85	7.2	33.49	8.1	25.1	2.95
I29	25 Aug 2020	31	13.26	88.05	7.2	33.49	8.1	25.2	2.89
I29	25 Aug 2020	32	13.23	88.24	7.1	33.50	8.0	25.2	2.84
I29	25 Aug 2020	33	13.23	88.02	7.0	33.50	8.0	25.2	2.79
I29	25 Aug 2020	34	13.20	88.03	6.9	33.51	8.0	25.2	2.53
I29	25 Aug 2020	35	13.20	88.30	6.8	33.51	8.0	25.2	2.24
I29	25 Aug 2020	36	13.18	88.60	6.7	33.51	8.0	25.2	2.17
I29	25 Aug 2020	37	13.18	88.81	6.7	33.51	8.0	25.2	2.02
I29	25 Aug 2020	38	13.19	88.76	6.7	33.51	8.0	25.2	2.00

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I3	26 Aug 2020	1	20.21	86.16	8.2	33.56	8.2	23.6	0.94
I3	26 Aug 2020	2	20.15	86.47	8.2	33.56	8.2	23.6	0.98
I3	26 Aug 2020	3	19.25	86.58	8.2	33.56	8.2	23.9	1.05
I3	26 Aug 2020	4	18.28	86.98	8.4	33.49	8.2	24.0	1.11
I3	26 Aug 2020	5	17.69	87.64	8.4	33.46	8.2	24.2	1.12
I3	26 Aug 2020	6	17.73	88.51	8.4	33.44	8.1	24.1	1.15
I3	26 Aug 2020	7	17.12	89.28	8.4	33.44	8.1	24.3	1.18
I3	26 Aug 2020	8	17.13	89.51	8.4	33.43	8.1	24.3	1.24
I3	26 Aug 2020	9	16.84	88.99	8.5	33.42	8.1	24.3	1.42
I3	26 Aug 2020	10	16.59	88.21	8.5	33.43	8.1	24.4	1.74
I3	26 Aug 2020	11	16.34	86.77	8.6	33.42	8.1	24.5	2.33
I3	26 Aug 2020	12	16.23	86.63	8.6	33.45	8.1	24.5	2.68
I3	26 Aug 2020	13	16.22	84.55	8.6	33.46	8.1	24.5	3.39
I3	26 Aug 2020	14	16.17	82.96	8.5	33.50	8.1	24.6	4.15
I3	26 Aug 2020	15	15.97	82.09	8.3	33.52	8.1	24.6	4.74
I3	26 Aug 2020	16	15.72	82.05	7.9	33.55	8.1	24.7	4.97
I3	26 Aug 2020	17	15.46	82.18	7.7	33.55	8.1	24.8	4.87
I3	26 Aug 2020	18	14.74	82.95	7.6	33.53	8.1	24.9	4.58
I3	26 Aug 2020	19	14.56	85.19	7.5	33.52	8.0	24.9	4.10
I3	26 Aug 2020	20	13.92	86.55	7.3	33.51	8.0	25.0	3.34
I3	26 Aug 2020	21	13.83	87.63	7.3	33.50	8.0	25.1	2.89
I3	26 Aug 2020	22	13.62	87.86	7.1	33.49	8.0	25.1	2.60
I3	26 Aug 2020	23	13.61	88.21	7.2	33.49	8.0	25.1	2.44
I3	26 Aug 2020	24	13.60	88.19	7.2	33.49	8.0	25.1	2.35
I3	26 Aug 2020	25	13.60	87.98	7.1	33.49	8.0	25.1	2.32
I3	26 Aug 2020	26	13.60	88.09	7.1	33.49	8.0	25.1	2.38
I3	26 Aug 2020	27	13.61	88.34	7.1	33.49	8.0	25.1	2.40
I30	25 Aug 2020	1	22.72	84.81	8.2	33.64	8.3	23.0	0.99
I30	25 Aug 2020	2	22.71	84.94	8.3	33.64	8.3	23.0	1.02
I30	25 Aug 2020	3	22.67	84.98	8.3	33.65	8.3	23.0	1.12
I30	25 Aug 2020	4	22.64	84.74	8.3	33.64	8.3	23.0	1.31
I30	25 Aug 2020	5	22.62	84.67	8.3	33.64	8.3	23.0	1.48
I30	25 Aug 2020	6	22.59	84.56	8.3	33.64	8.3	23.0	1.68
I30	25 Aug 2020	7	21.97	84.43	8.5	33.65	8.3	23.2	2.00
I30	25 Aug 2020	8	21.24	83.50	8.7	33.66	8.3	23.4	2.64
I30	25 Aug 2020	9	20.12	82.00	9.0	33.61	8.3	23.7	4.09
I30	25 Aug 2020	10	19.20	80.40	9.0	33.62	8.3	23.9	5.57
I30	25 Aug 2020	11	17.00	79.39	9.1	33.53	8.2	24.4	5.29
I30	25 Aug 2020	12	16.54	80.85	9.1	33.47	8.2	24.5	5.06
I30	25 Aug 2020	13	16.42	81.41	9.0	33.46	8.2	24.5	5.12
I30	25 Aug 2020	14	15.74	81.60	8.9	33.46	8.2	24.6	5.07
I30	25 Aug 2020	15	15.83	81.75	8.7	33.45	8.2	24.6	4.90
I30	25 Aug 2020	16	15.10	82.51	8.3	33.51	8.2	24.8	4.23
I30	25 Aug 2020	17	14.77	84.23	8.0	33.52	8.1	24.9	3.54
I30	25 Aug 2020	18	14.48	85.42	7.8	33.51	8.1	24.9	3.07
I30	25 Aug 2020	19	14.38	86.42	7.6	33.52	8.1	25.0	2.39
I30	25 Aug 2020	20	14.37	86.99	7.4	33.54	8.1	25.0	2.06
I30	25 Aug 2020	21	14.36	86.98	7.3	33.54	8.1	25.0	1.90
I30	25 Aug 2020	22	14.31	86.83	7.3	33.54	8.1	25.0	1.84
I30	25 Aug 2020	23	14.17	87.17	7.2	33.54	8.1	25.0	1.74
I30	25 Aug 2020	24	14.10	87.04	7.2	33.53	8.1	25.0	1.74
I30	25 Aug 2020	25	14.08	86.94	7.2	33.53	8.1	25.0	1.69
I30	25 Aug 2020	26	14.08	86.87	7.1	33.53	8.1	25.0	1.71
I30	25 Aug 2020	27	14.07	86.84	7.1	33.53	8.1	25.0	1.72
I30	25 Aug 2020	28	14.07	86.82	7.1	33.53	8.1	25.0	1.70
I31	25 Aug 2020	1	22.17	78.17	8.8	33.61	8.3	23.1	1.96
I31	25 Aug 2020	2	22.21	78.50	8.8	33.61	8.3	23.1	1.79
I31	25 Aug 2020	3	22.18	78.84	8.8	33.62	8.3	23.1	1.97
I31	25 Aug 2020	4	22.05	79.01	8.8	33.62	8.3	23.2	2.32

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I31	25 Aug 2020	5	20.44	75.25	8.9	33.67	8.3	23.6	4.14
I31	25 Aug 2020	6	19.34	70.30	9.2	33.59	8.2	23.9	6.73
I31	25 Aug 2020	7	18.47	71.46	9.1	33.59	8.2	24.1	7.32
I31	25 Aug 2020	8	18.24	77.20	9.0	33.55	8.2	24.1	6.58
I31	25 Aug 2020	9	17.35	80.77	8.8	33.56	8.2	24.3	5.56
I31	25 Aug 2020	10	17.13	81.27	8.6	33.54	8.2	24.4	4.89
I31	25 Aug 2020	11	16.90	81.28	8.4	33.55	8.2	24.4	4.63
I31	25 Aug 2020	12	16.80	81.72	8.3	33.55	8.2	24.4	4.42
I31	25 Aug 2020	13	16.67	81.81	8.2	33.56	8.2	24.5	4.28
I31	25 Aug 2020	14	16.46	82.04	8.0	33.57	8.1	24.5	4.02
I31	25 Aug 2020	15	16.31	82.66	7.9	33.57	8.1	24.6	3.54
I31	25 Aug 2020	16	16.01	83.57	8.0	33.56	8.1	24.6	2.87
I31	25 Aug 2020	17	15.75	84.76	7.8	33.56	8.1	24.7	2.43
I31	25 Aug 2020	18	15.49	84.99	7.7	33.56	8.1	24.8	2.10
I31	25 Aug 2020	19	15.40	85.95	7.5	33.56	8.1	24.8	1.61
I33	25 Aug 2020	1	23.01	86.72	8.0	33.66	8.3	22.9	1.13
I33	25 Aug 2020	2	23.02	86.85	8.0	33.66	8.3	22.9	1.18
I33	25 Aug 2020	3	22.99	86.73	8.0	33.66	8.3	22.9	1.24
I33	25 Aug 2020	4	22.79	86.24	7.9	33.65	8.3	23.0	1.51
I33	25 Aug 2020	5	22.12	85.84	8.1	33.67	8.3	23.2	1.78
I33	25 Aug 2020	6	21.58	85.97	8.4	33.63	8.2	23.3	2.07
I33	25 Aug 2020	7	21.54	84.85	8.5	33.62	8.2	23.3	2.44
I33	25 Aug 2020	8	20.79	84.12	8.7	33.65	8.2	23.5	3.04
I33	25 Aug 2020	9	19.50	81.23	9.0	33.58	8.3	23.8	3.73
I33	25 Aug 2020	10	17.09	80.08	9.2	33.56	8.2	24.4	3.78
I33	25 Aug 2020	11	17.10	81.86	9.2	33.51	8.2	24.3	3.72
I33	25 Aug 2020	12	16.28	82.76	8.8	33.52	8.2	24.5	3.75
I33	25 Aug 2020	13	15.23	83.91	8.7	33.47	8.2	24.7	3.81
I33	25 Aug 2020	14	14.88	84.14	8.5	33.46	8.2	24.8	4.05
I33	25 Aug 2020	15	14.64	84.40	8.4	33.46	8.2	24.9	3.94
I33	25 Aug 2020	16	14.55	84.88	8.2	33.48	8.1	24.9	3.76
I33	25 Aug 2020	17	14.60	85.28	8.1	33.49	8.1	24.9	3.68
I33	25 Aug 2020	18	14.43	85.47	7.8	33.52	8.1	25.0	3.32
I33	25 Aug 2020	19	14.42	85.57	7.7	33.53	8.1	25.0	3.18
I33	25 Aug 2020	20	14.32	85.70	7.6	33.53	8.1	25.0	3.11
I33	25 Aug 2020	21	14.32	85.93	7.6	33.53	8.1	25.0	3.12
I33	25 Aug 2020	22	14.29	86.12	7.6	33.53	8.1	25.0	2.96
I33	25 Aug 2020	23	14.21	85.95	7.5	33.53	8.1	25.0	2.89
I33	25 Aug 2020	24	14.20	86.14	7.5	33.53	8.1	25.0	2.89
I33	25 Aug 2020	25	14.16	86.12	7.4	33.53	8.1	25.0	2.85
I33	25 Aug 2020	26	14.16	86.27	7.4	33.53	8.1	25.0	2.73
I33	25 Aug 2020	27	14.14	86.40	7.4	33.53	8.1	25.0	2.64
I33	25 Aug 2020	28	14.11	86.78	7.3	33.53	8.1	25.0	2.37
I33	25 Aug 2020	29	14.09	87.17	7.2	33.53	8.1	25.0	2.05
I33	25 Aug 2020	30	14.10	87.33	7.2	33.53	8.1	25.0	1.94
I34	25 Aug 2020	1	22.72	85.24	8.3	33.65	8.3	23.0	1.57
I34	25 Aug 2020	2	22.72	85.31	8.3	33.65	8.3	23.0	1.65
I34	25 Aug 2020	3	22.72	85.32	8.3	33.65	8.3	23.0	1.70
I34	25 Aug 2020	4	22.62	85.33	8.3	33.66	8.3	23.0	1.96
I34	25 Aug 2020	5	21.92	84.24	8.3	33.65	8.2	23.2	2.98
I34	25 Aug 2020	6	20.45	80.84	8.4	33.66	8.2	23.6	4.02
I34	25 Aug 2020	7	17.19	79.54	9.1	33.58	8.2	24.4	4.62
I34	25 Aug 2020	8	16.57	80.01	9.2	33.52	8.2	24.5	4.79
I34	25 Aug 2020	9	16.32	80.61	9.1	33.49	8.2	24.5	4.70
I34	25 Aug 2020	10	15.38	82.44	8.9	33.47	8.2	24.7	4.58
I34	25 Aug 2020	11	15.25	82.99	8.8	33.44	8.2	24.7	4.84
I34	25 Aug 2020	12	15.17	83.08	8.8	33.44	8.2	24.7	4.81
I34	25 Aug 2020	13	15.13	83.25	8.7	33.44	8.2	24.7	4.71
I34	25 Aug 2020	14	15.15	83.52	8.6	33.45	8.2	24.7	4.53

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I34	25 Aug 2020	15	15.18	83.98	8.4	33.49	8.2	24.8	4.22
I34	25 Aug 2020	16	15.22	84.05	8.0	33.54	8.1	24.8	3.54
I34	25 Aug 2020	17	15.21	84.08	7.9	33.55	8.1	24.8	3.08
I34	25 Aug 2020	18	15.21	84.23	7.8	33.56	8.1	24.8	2.76
I34	25 Aug 2020	19	15.21	84.38	7.8	33.56	8.1	24.8	2.51
I35	25 Aug 2020	1	22.58	83.01	8.7	33.64	8.3	23.0	1.40
I35	25 Aug 2020	2	22.56	83.05	8.8	33.64	8.3	23.0	1.46
I35	25 Aug 2020	3	22.51	82.81	8.8	33.63	8.3	23.0	1.62
I35	25 Aug 2020	4	22.16	81.68	9.0	33.64	8.3	23.1	2.07
I35	25 Aug 2020	5	20.26	74.00	9.6	33.63	8.3	23.6	4.62
I35	25 Aug 2020	6	18.93	73.01	9.9	33.55	8.3	23.9	7.86
I35	25 Aug 2020	7	18.36	76.38	9.8	33.53	8.3	24.1	7.57
I35	25 Aug 2020	8	17.74	78.78	9.7	33.51	8.3	24.2	6.41
I35	25 Aug 2020	9	17.05	80.02	9.4	33.47	8.3	24.3	5.90
I35	25 Aug 2020	10	16.73	80.31	9.2	33.51	8.2	24.4	5.52
I35	25 Aug 2020	11	16.71	81.42	9.0	33.52	8.2	24.4	5.10
I35	25 Aug 2020	12	16.49	82.48	8.7	33.54	8.2	24.5	4.42
I35	25 Aug 2020	13	16.44	82.54	8.5	33.55	8.2	24.5	4.00
I35	25 Aug 2020	14	16.25	83.41	8.2	33.56	8.2	24.6	3.24
I35	25 Aug 2020	15	16.15	83.49	8.1	33.56	8.2	24.6	2.89
I35	25 Aug 2020	16	15.93	83.65	7.8	33.56	8.1	24.7	2.62
I35	25 Aug 2020	17	15.73	83.32	7.4	33.57	8.1	24.7	2.49
I35	25 Aug 2020	18	15.56	82.32	7.1	33.56	8.1	24.7	2.34
I35	25 Aug 2020	19	15.53	81.82	7.0	33.56	8.1	24.7	2.05
I36	25 Aug 2020	1	20.89	71.10	8.6	33.59	8.2	23.5	3.24
I36	25 Aug 2020	2	20.60	71.26	8.6	33.60	8.2	23.5	4.24
I36	25 Aug 2020	3	19.95	68.49	8.7	33.59	8.2	23.7	6.95
I36	25 Aug 2020	4	18.92	66.09	8.8	33.60	8.2	24.0	8.15
I36	25 Aug 2020	5	18.66	72.80	8.7	33.58	8.2	24.0	7.26
I36	25 Aug 2020	6	18.42	75.70	8.7	33.58	8.2	24.1	6.61
I36	25 Aug 2020	7	18.35	77.31	8.7	33.57	8.2	24.1	5.98
I36	25 Aug 2020	8	18.19	78.60	8.2	33.57	8.2	24.1	5.04
I36	25 Aug 2020	9	17.88	78.65	7.6	33.57	8.1	24.2	4.31
I36	25 Aug 2020	10	17.27	79.44	7.2	33.57	8.1	24.4	3.14
I36	25 Aug 2020	11	17.25	79.90	7.2	33.56	8.1	24.4	2.42
I37	25 Aug 2020	1	21.71	76.40	8.5	33.62	8.2	23.3	3.22
I37	25 Aug 2020	2	21.65	76.23	8.4	33.62	8.2	23.3	3.70
I37	25 Aug 2020	3	21.57	75.50	8.3	33.62	8.2	23.3	4.73
I37	25 Aug 2020	4	21.52	73.94	8.3	33.62	8.2	23.3	5.38
I37	25 Aug 2020	5	21.45	73.37	8.2	33.62	8.2	23.3	5.96
I37	25 Aug 2020	6	21.28	73.07	8.3	33.62	8.2	23.4	6.31
I37	25 Aug 2020	7	20.17	73.88	8.6	33.63	8.2	23.7	6.29
I37	25 Aug 2020	8	19.22	77.03	8.6	33.60	8.2	23.9	5.58
I37	25 Aug 2020	9	16.89	79.37	8.7	33.60	8.2	24.5	4.47
I37	25 Aug 2020	10	16.75	82.15	8.5	33.54	8.2	24.4	3.85
I37	25 Aug 2020	11	15.96	82.10	8.2	33.54	8.1	24.6	3.51
I37	25 Aug 2020	12	15.96	81.92	8.2	33.53	8.1	24.6	3.29
I38	25 Aug 2020	1	21.46	71.41	9.4	33.60	8.3	23.3	3.17
I38	25 Aug 2020	2	21.40	71.26	9.4	33.61	8.3	23.3	3.49
I38	25 Aug 2020	3	20.62	68.97	9.6	33.62	8.3	23.5	7.16
I38	25 Aug 2020	4	19.78	62.39	9.8	33.59	8.3	23.7	12.29
I38	25 Aug 2020	5	18.62	69.77	9.4	33.60	8.3	24.0	10.26
I38	25 Aug 2020	6	18.20	75.82	9.1	33.57	8.2	24.1	7.77
I38	25 Aug 2020	7	17.68	78.08	9.0	33.55	8.2	24.2	6.01
I38	25 Aug 2020	8	17.56	79.63	8.7	33.55	8.2	24.3	5.30
I38	25 Aug 2020	9	16.92	80.50	8.2	33.56	8.2	24.4	4.34
I38	25 Aug 2020	10	16.77	81.87	8.0	33.55	8.2	24.5	3.47

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I38	25 Aug 2020	11	16.73	82.55	7.9	33.55	8.2	24.5	2.94
I4	26 Aug 2020	1	20.30	80.72	8.7	33.58	8.2	23.6	2.04
I4	26 Aug 2020	2	20.27	80.61	8.7	33.58	8.2	23.6	2.19
I4	26 Aug 2020	3	19.34	80.94	8.7	33.58	8.2	23.8	2.49
I4	26 Aug 2020	4	18.48	82.29	8.8	33.53	8.2	24.0	2.87
I4	26 Aug 2020	5	18.14	80.61	8.8	33.54	8.2	24.1	4.16
I4	26 Aug 2020	6	18.04	77.82	8.6	33.54	8.2	24.1	5.33
I4	26 Aug 2020	7	17.74	75.77	8.4	33.55	8.1	24.2	6.94
I4	26 Aug 2020	8	17.36	75.20	8.2	33.55	8.1	24.3	7.80
I4	26 Aug 2020	9	17.05	75.76	8.1	33.53	8.1	24.4	8.32
I4	26 Aug 2020	10	16.28	76.83	7.8	33.54	8.1	24.6	7.88
I4	26 Aug 2020	11	15.03	81.76	7.8	33.49	8.1	24.8	5.52
I4	26 Aug 2020	12	15.21	85.95	7.6	33.52	8.1	24.8	4.83
I4	26 Aug 2020	13	14.47	86.64	7.4	33.51	8.0	24.9	2.99
I4	26 Aug 2020	14	14.19	87.20	7.3	33.50	8.0	25.0	2.54
I4	26 Aug 2020	15	14.08	87.30	7.3	33.49	8.0	25.0	2.30
I4	26 Aug 2020	16	14.12	87.56	7.3	33.50	8.0	25.0	2.30
I4	26 Aug 2020	17	14.05	87.50	7.2	33.50	8.0	25.0	2.19
I4	26 Aug 2020	18	14.05	87.60	7.2	33.50	8.0	25.0	2.18
I5	26 Aug 2020	1	20.16	78.78	8.5	33.59	8.2	23.6	2.72
I5	26 Aug 2020	2	20.08	78.68	8.3	33.59	8.2	23.7	3.02
I5	26 Aug 2020	3	19.07	77.71	8.2	33.59	8.2	23.9	4.06
I5	26 Aug 2020	4	18.54	77.07	8.0	33.58	8.2	24.0	4.80
I5	26 Aug 2020	5	17.86	77.44	8.0	33.56	8.1	24.2	5.06
I5	26 Aug 2020	6	17.46	77.70	7.7	33.56	8.1	24.3	5.29
I5	26 Aug 2020	7	15.64	79.78	7.6	33.55	8.1	24.7	4.86
I5	26 Aug 2020	8	14.73	84.01	7.7	33.49	8.1	24.9	4.02
I5	26 Aug 2020	9	14.61	85.36	7.6	33.48	8.1	24.9	3.32
I5	26 Aug 2020	10	14.56	85.58	7.5	33.48	8.1	24.9	2.95
I5	26 Aug 2020	11	14.38	85.58	7.4	33.48	8.0	24.9	2.86
I5	26 Aug 2020	12	14.36	85.76	7.4	33.49	8.0	24.9	2.72
I5	26 Aug 2020	13	14.37	85.44	7.4	33.49	8.0	24.9	2.43
I5	26 Aug 2020	14	14.38	83.80	7.4	33.49	8.0	24.9	2.34
I6	26 Aug 2020	1	20.69	79.75	8.1	33.60	8.2	23.5	1.83
I6	26 Aug 2020	2	20.58	79.92	8.1	33.60	8.2	23.5	1.90
I6	26 Aug 2020	3	19.56	80.63	8.1	33.59	8.2	23.8	2.07
I6	26 Aug 2020	4	18.40	83.04	8.2	33.52	8.2	24.0	2.15
I6	26 Aug 2020	5	16.49	85.56	8.5	33.44	8.2	24.4	1.95
I6	26 Aug 2020	6	16.19	88.23	8.5	33.40	8.1	24.5	1.65
I6	26 Aug 2020	7	15.88	89.51	8.5	33.38	8.1	24.5	1.50
I6	26 Aug 2020	8	15.79	89.73	8.5	33.37	8.1	24.5	1.46
I6	26 Aug 2020	9	15.73	89.89	8.5	33.37	8.1	24.6	1.49
I6	26 Aug 2020	10	15.76	89.97	8.5	33.38	8.1	24.6	1.47
I6	26 Aug 2020	11	15.65	89.75	8.5	33.39	8.1	24.6	1.48
I6	26 Aug 2020	12	15.66	89.49	8.5	33.39	8.1	24.6	1.59
I6	26 Aug 2020	13	15.69	88.79	8.4	33.42	8.1	24.6	1.83
I6	26 Aug 2020	14	15.69	87.81	8.4	33.43	8.1	24.6	2.08
I6	26 Aug 2020	15	15.66	86.98	8.4	33.45	8.1	24.6	2.44
I6	26 Aug 2020	16	15.57	85.96	8.3	33.48	8.1	24.7	3.03
I6	26 Aug 2020	17	15.32	84.71	8.0	33.51	8.1	24.7	3.57
I6	26 Aug 2020	18	14.88	84.58	7.7	33.52	8.1	24.9	3.79
I6	26 Aug 2020	19	14.55	85.68	7.5	33.53	8.0	24.9	3.46
I6	26 Aug 2020	20	14.13	86.26	7.3	33.52	8.0	25.0	2.93
I6	26 Aug 2020	21	14.12	86.99	7.2	33.51	8.0	25.0	2.71
I6	26 Aug 2020	22	13.70	87.60	7.1	33.51	8.0	25.1	2.41
I6	26 Aug 2020	23	13.51	88.15	7.0	33.50	8.0	25.1	2.25
I6	26 Aug 2020	24	13.51	88.46	6.9	33.50	8.0	25.1	2.20
I6	26 Aug 2020	25	13.50	88.59	6.9	33.50	8.0	25.1	2.09

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I6	26 Aug 2020	26	13.49	88.62	6.9	33.50	8.0	25.1	2.01
I7	26 Aug 2020	1	22.15	88.84	7.2	33.61	8.1	23.1	0.56
I7	26 Aug 2020	2	22.15	89.51	7.2	33.62	8.1	23.1	0.56
I7	26 Aug 2020	3	22.06	90.83	7.1	33.62	8.1	23.1	0.57
I7	26 Aug 2020	4	21.09	91.11	7.1	33.61	8.1	23.4	0.56
I7	26 Aug 2020	5	19.18	91.57	7.6	33.56	8.1	23.9	0.51
I7	26 Aug 2020	6	19.21	92.12	7.5	33.53	8.1	23.8	0.49
I7	26 Aug 2020	7	17.85	92.11	7.8	33.50	8.1	24.2	0.49
I7	26 Aug 2020	8	17.69	92.02	7.9	33.46	8.1	24.2	0.49
I7	26 Aug 2020	9	17.32	92.02	8.0	33.45	8.1	24.2	0.51
I7	26 Aug 2020	10	17.14	92.01	8.1	33.44	8.1	24.3	0.54
I7	26 Aug 2020	11	17.07	91.99	8.1	33.43	8.1	24.3	0.54
I7	26 Aug 2020	12	17.12	92.00	8.1	33.43	8.1	24.3	0.58
I7	26 Aug 2020	13	17.06	92.01	8.1	33.44	8.1	24.3	0.59
I7	26 Aug 2020	14	16.95	92.00	8.1	33.44	8.1	24.3	0.61
I7	26 Aug 2020	15	16.78	92.02	8.1	33.43	8.1	24.4	0.61
I7	26 Aug 2020	16	16.50	92.04	8.1	33.43	8.1	24.4	0.61
I7	26 Aug 2020	17	16.12	92.11	8.2	33.41	8.1	24.5	0.60
I7	26 Aug 2020	18	15.90	92.21	8.2	33.39	8.1	24.5	0.63
I7	26 Aug 2020	19	15.59	92.20	8.2	33.40	8.1	24.6	0.64
I7	26 Aug 2020	20	15.25	92.13	8.3	33.39	8.1	24.7	0.77
I7	26 Aug 2020	21	15.08	91.85	8.3	33.39	8.1	24.7	0.86
I7	26 Aug 2020	22	14.98	91.13	8.3	33.39	8.1	24.7	0.96
I7	26 Aug 2020	23	14.60	90.51	8.3	33.42	8.1	24.8	1.14
I7	26 Aug 2020	24	14.35	90.15	8.3	33.42	8.1	24.9	1.37
I7	26 Aug 2020	25	14.14	89.48	8.3	33.41	8.1	24.9	1.83
I7	26 Aug 2020	26	13.72	88.04	8.1	33.41	8.1	25.0	2.95
I7	26 Aug 2020	27	13.56	88.02	8.0	33.41	8.1	25.0	3.49
I7	26 Aug 2020	28	13.38	88.74	7.8	33.41	8.1	25.1	3.37
I7	26 Aug 2020	29	13.29	89.58	7.7	33.41	8.1	25.1	3.22
I7	26 Aug 2020	30	13.04	89.67	7.5	33.44	8.0	25.2	2.94
I7	26 Aug 2020	31	12.90	90.29	7.3	33.46	8.0	25.2	2.58
I7	26 Aug 2020	32	12.87	90.77	7.2	33.46	8.0	25.2	2.22
I7	26 Aug 2020	33	12.82	91.13	7.1	33.46	8.0	25.2	2.02
I7	26 Aug 2020	34	12.82	91.51	7.1	33.46	8.0	25.2	1.93
I7	26 Aug 2020	35	12.71	91.58	6.9	33.49	8.0	25.3	1.73
I7	26 Aug 2020	36	12.71	91.47	6.8	33.49	8.0	25.3	1.63
I7	26 Aug 2020	37	12.71	91.47	6.8	33.49	8.0	25.3	1.55
I7	26 Aug 2020	38	12.69	91.45	6.7	33.50	8.0	25.3	1.52
I7	26 Aug 2020	39	12.70	91.47	6.7	33.50	8.0	25.3	1.50
I7	26 Aug 2020	40	12.68	91.49	6.7	33.50	8.0	25.3	1.49
I7	26 Aug 2020	41	12.68	91.51	6.7	33.50	8.0	25.3	1.45
I7	26 Aug 2020	42	12.69	91.49	6.7	33.50	8.0	25.3	1.44
I7	26 Aug 2020	43	12.69	91.47	6.6	33.50	8.0	25.3	1.43
I7	26 Aug 2020	44	12.67	91.46	6.6	33.51	8.0	25.3	1.39
I7	26 Aug 2020	45	12.65	91.48	6.6	33.51	8.0	25.3	1.37
I7	26 Aug 2020	46	12.66	91.50	6.6	33.51	8.0	25.3	1.39
I7	26 Aug 2020	47	12.65	91.51	6.5	33.51	7.9	25.3	1.32
I7	26 Aug 2020	48	12.63	91.44	6.5	33.52	7.9	25.3	1.28
I7	26 Aug 2020	49	12.58	91.42	6.4	33.53	7.9	25.3	1.18
I7	26 Aug 2020	50	12.56	91.48	6.3	33.54	7.9	25.3	1.10
I7	26 Aug 2020	51	12.54	91.52	6.2	33.54	7.9	25.4	1.07
I7	26 Aug 2020	52	12.54	91.49	6.2	33.54	7.9	25.4	1.02
I8	26 Aug 2020	1	19.14	88.53	8.3	33.52	8.2	23.9	0.55
I8	26 Aug 2020	2	19.18	88.56	8.3	33.52	8.2	23.8	0.56
I8	26 Aug 2020	3	19.08	88.60	8.3	33.52	8.2	23.9	0.56
I8	26 Aug 2020	4	18.93	88.84	8.3	33.51	8.2	23.9	0.58
I8	26 Aug 2020	5	18.45	89.13	8.2	33.51	8.2	24.0	0.58
I8	26 Aug 2020	6	17.59	89.69	8.3	33.47	8.2	24.2	0.54

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I8	26 Aug 2020	7	17.27	90.11	8.3	33.45	8.2	24.3	0.56
I8	26 Aug 2020	8	16.56	90.21	8.5	33.42	8.2	24.4	0.55
I8	26 Aug 2020	9	16.38	90.79	8.4	33.41	8.1	24.4	0.55
I8	26 Aug 2020	10	16.22	91.30	8.4	33.40	8.1	24.5	0.54
I8	26 Aug 2020	11	16.07	91.50	8.3	33.40	8.1	24.5	0.55
I8	26 Aug 2020	12	15.80	91.58	8.3	33.39	8.1	24.6	0.58
I8	26 Aug 2020	13	15.67	91.88	8.2	33.39	8.1	24.6	0.60
I8	26 Aug 2020	14	15.15	91.95	8.3	33.39	8.1	24.7	0.62
I8	26 Aug 2020	15	15.07	91.74	8.3	33.37	8.1	24.7	0.66
I8	26 Aug 2020	16	14.83	91.52	8.3	33.39	8.1	24.8	0.78
I8	26 Aug 2020	17	14.77	91.03	8.3	33.38	8.1	24.8	0.95
I8	26 Aug 2020	18	14.71	90.96	8.2	33.39	8.1	24.8	1.00
I8	26 Aug 2020	19	14.46	90.80	8.3	33.41	8.1	24.9	1.04
I8	26 Aug 2020	20	14.29	89.82	8.2	33.42	8.1	24.9	1.21
I8	26 Aug 2020	21	13.95	89.08	8.2	33.41	8.1	25.0	1.61
I8	26 Aug 2020	22	13.61	88.47	8.1	33.42	8.1	25.0	2.33
I8	26 Aug 2020	23	13.55	87.01	8.0	33.41	8.1	25.1	2.94
I8	26 Aug 2020	24	13.52	86.97	7.9	33.41	8.1	25.1	3.28
I8	26 Aug 2020	25	13.49	86.94	7.8	33.42	8.1	25.1	3.51
I8	26 Aug 2020	26	13.48	87.09	7.8	33.42	8.1	25.1	3.79
I8	26 Aug 2020	27	13.46	86.98	7.8	33.42	8.1	25.1	4.00
I8	26 Aug 2020	28	13.45	86.90	7.7	33.43	8.1	25.1	4.26
I8	26 Aug 2020	29	13.44	86.85	7.6	33.44	8.0	25.1	4.23
I8	26 Aug 2020	30	13.38	87.63	7.5	33.46	8.0	25.1	3.81
I8	26 Aug 2020	31	13.32	88.21	7.4	33.47	8.0	25.1	3.53
I8	26 Aug 2020	32	13.31	88.04	7.3	33.47	8.0	25.1	3.52
I8	26 Aug 2020	33	13.17	88.09	7.1	33.49	8.0	25.2	3.12
I8	26 Aug 2020	34	13.05	89.45	6.9	33.50	8.0	25.2	2.37
I8	26 Aug 2020	35	13.02	90.23	6.8	33.51	8.0	25.2	1.94
I8	26 Aug 2020	36	13.00	90.44	6.7	33.51	8.0	25.2	1.65
I9	26 Aug 2020	1	20.28	85.33	8.4	33.57	8.2	23.6	0.83
I9	26 Aug 2020	2	20.12	85.42	8.3	33.58	8.2	23.6	0.85
I9	26 Aug 2020	3	19.28	86.07	8.5	33.56	8.2	23.8	0.82
I9	26 Aug 2020	4	18.29	87.61	8.5	33.51	8.2	24.1	0.75
I9	26 Aug 2020	5	17.44	89.42	8.4	33.47	8.2	24.2	0.66
I9	26 Aug 2020	6	17.02	89.86	8.5	33.44	8.2	24.3	0.69
I9	26 Aug 2020	7	16.71	90.40	8.4	33.44	8.2	24.4	0.68
I9	26 Aug 2020	8	15.99	90.85	8.4	33.40	8.2	24.5	0.65
I9	26 Aug 2020	9	15.58	91.13	8.3	33.38	8.1	24.6	0.68
I9	26 Aug 2020	10	15.40	90.99	8.3	33.37	8.1	24.6	0.74
I9	26 Aug 2020	11	14.96	90.75	8.1	33.33	8.1	24.7	0.87
I9	26 Aug 2020	12	14.69	89.81	8.0	33.28	8.1	24.7	1.03
I9	26 Aug 2020	13	14.66	89.19	7.9	33.27	8.1	24.7	1.14
I9	26 Aug 2020	14	14.54	88.86	8.0	33.30	8.1	24.8	1.31
I9	26 Aug 2020	15	14.49	89.21	8.1	33.39	8.1	24.8	1.48
I9	26 Aug 2020	16	14.47	89.15	8.2	33.37	8.1	24.8	1.65
I9	26 Aug 2020	17	14.32	88.93	8.3	33.41	8.1	24.9	1.89
I9	26 Aug 2020	18	14.28	88.48	8.3	33.41	8.1	24.9	2.22
I9	26 Aug 2020	19	14.23	88.48	8.2	33.42	8.1	24.9	2.27
I9	26 Aug 2020	20	13.66	88.22	7.7	33.49	8.1	25.1	2.24
I9	26 Aug 2020	21	13.58	88.43	7.3	33.49	8.0	25.1	2.13
I9	26 Aug 2020	22	13.43	88.53	7.1	33.50	8.0	25.1	2.05
I9	26 Aug 2020	23	13.43	88.52	7.1	33.49	8.0	25.1	2.02
I9	26 Aug 2020	24	13.44	88.52	7.1	33.49	8.0	25.1	2.07
I9	26 Aug 2020	25	13.44	88.45	7.0	33.50	8.0	25.1	2.10
I9	26 Aug 2020	26	13.44	88.38	7.0	33.50	8.0	25.1	2.11
I9	26 Aug 2020	27	13.44	88.52	7.0	33.50	8.0	25.1	2.09
I9	26 Aug 2020	28	13.44	88.54	7.0	33.50	8.0	25.1	2.05
I9	26 Aug 2020	29	13.44	88.45	7.0	33.50	8.0	25.1	2.11

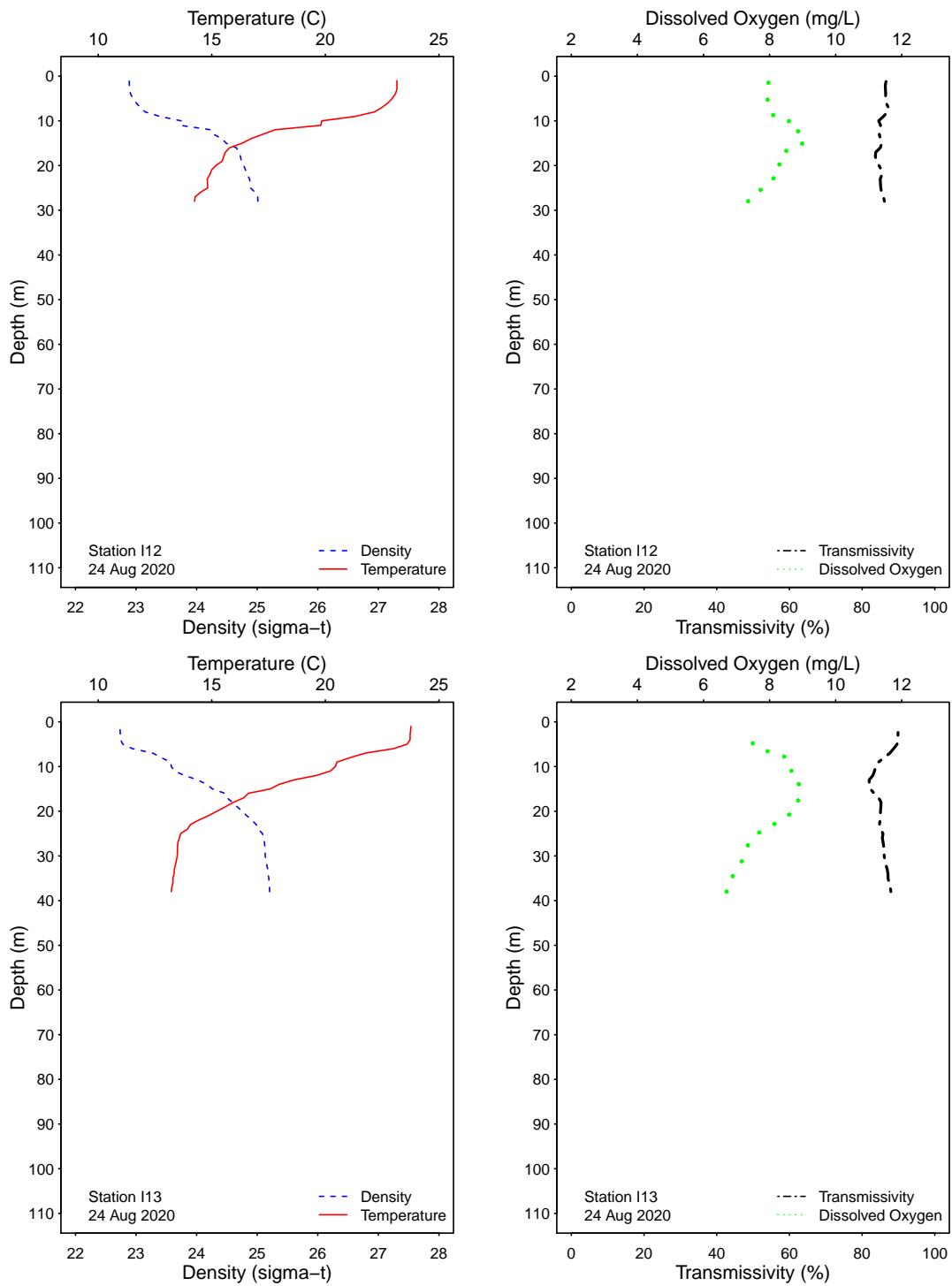


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

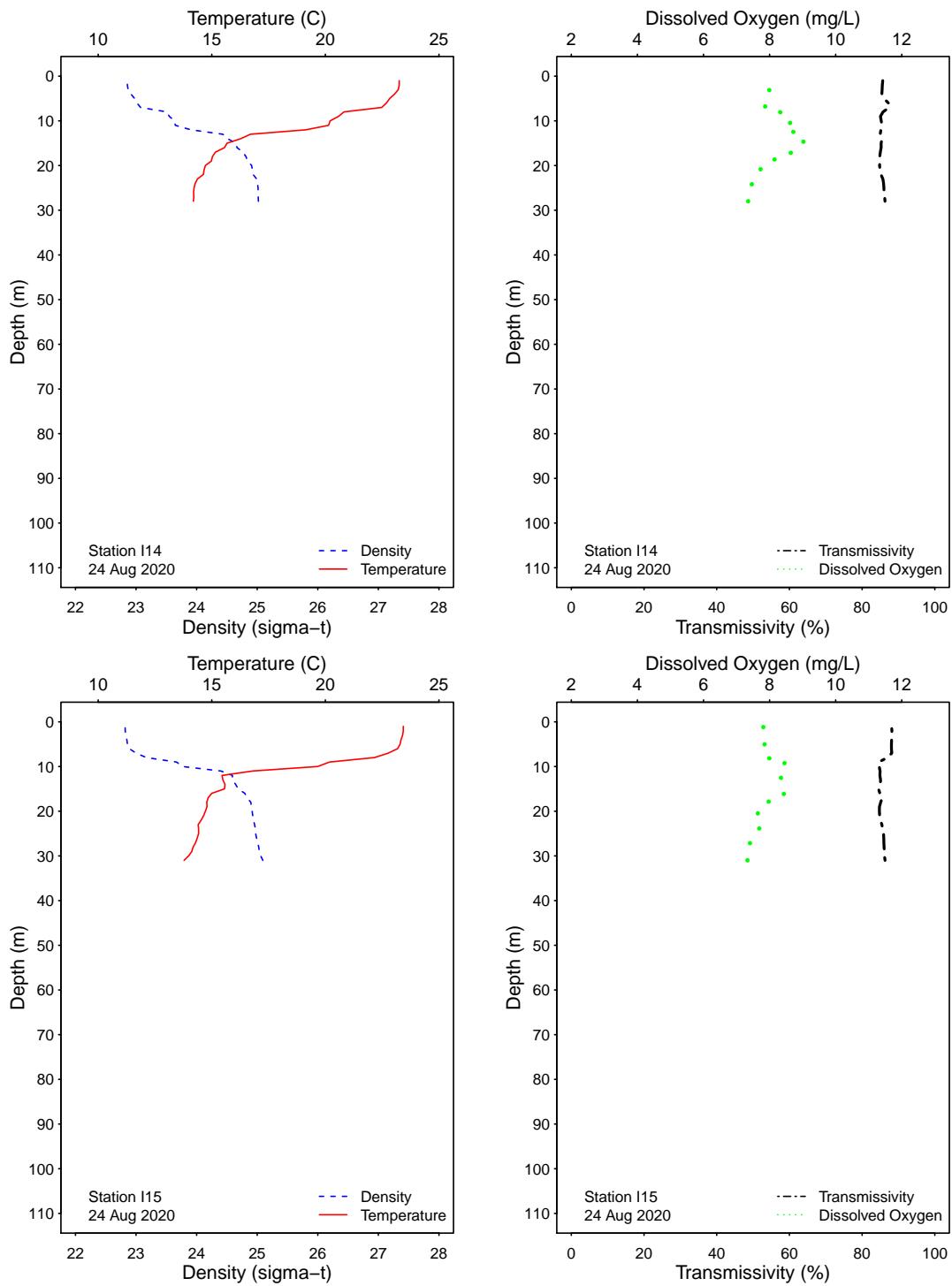


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

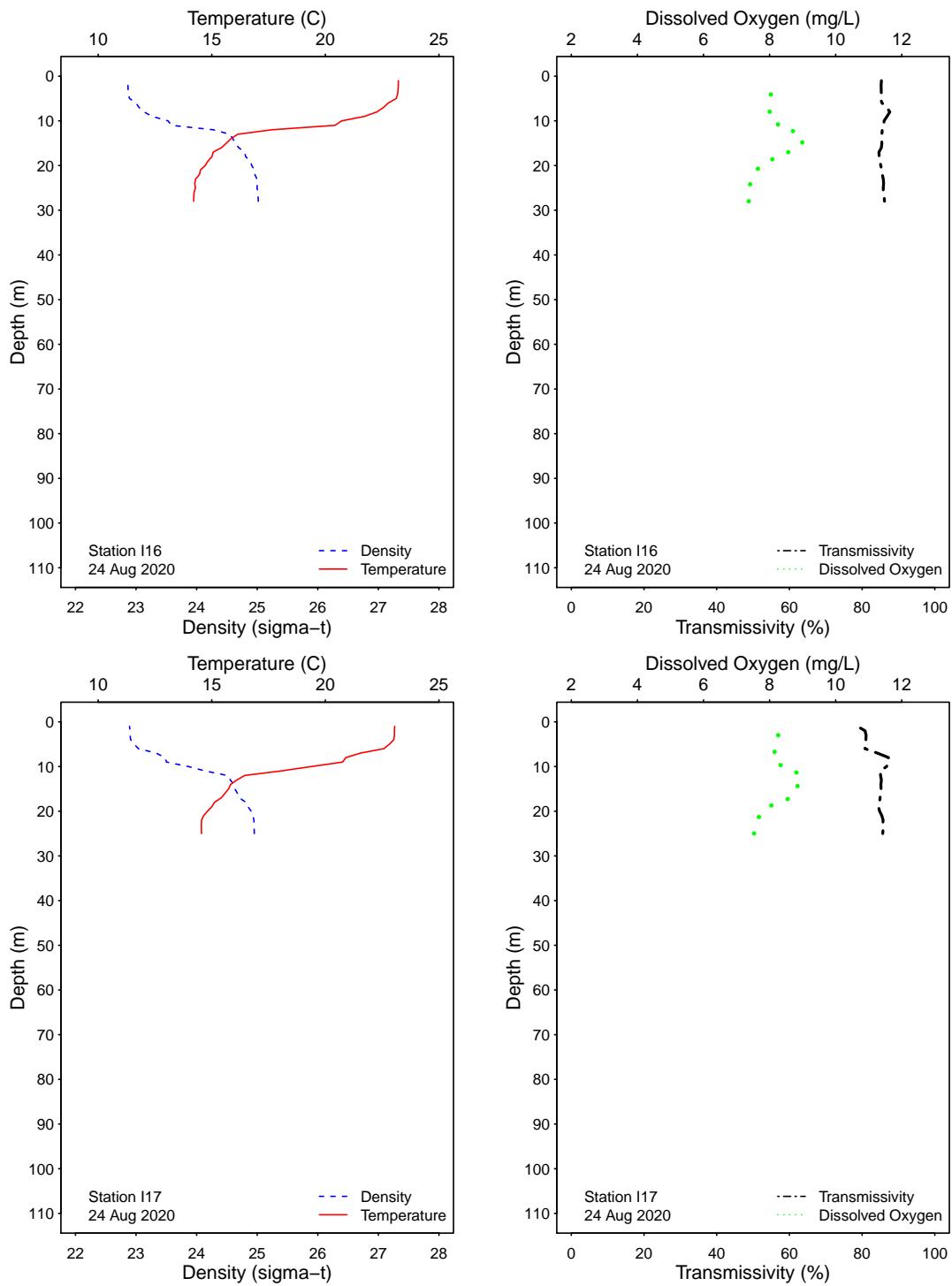


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

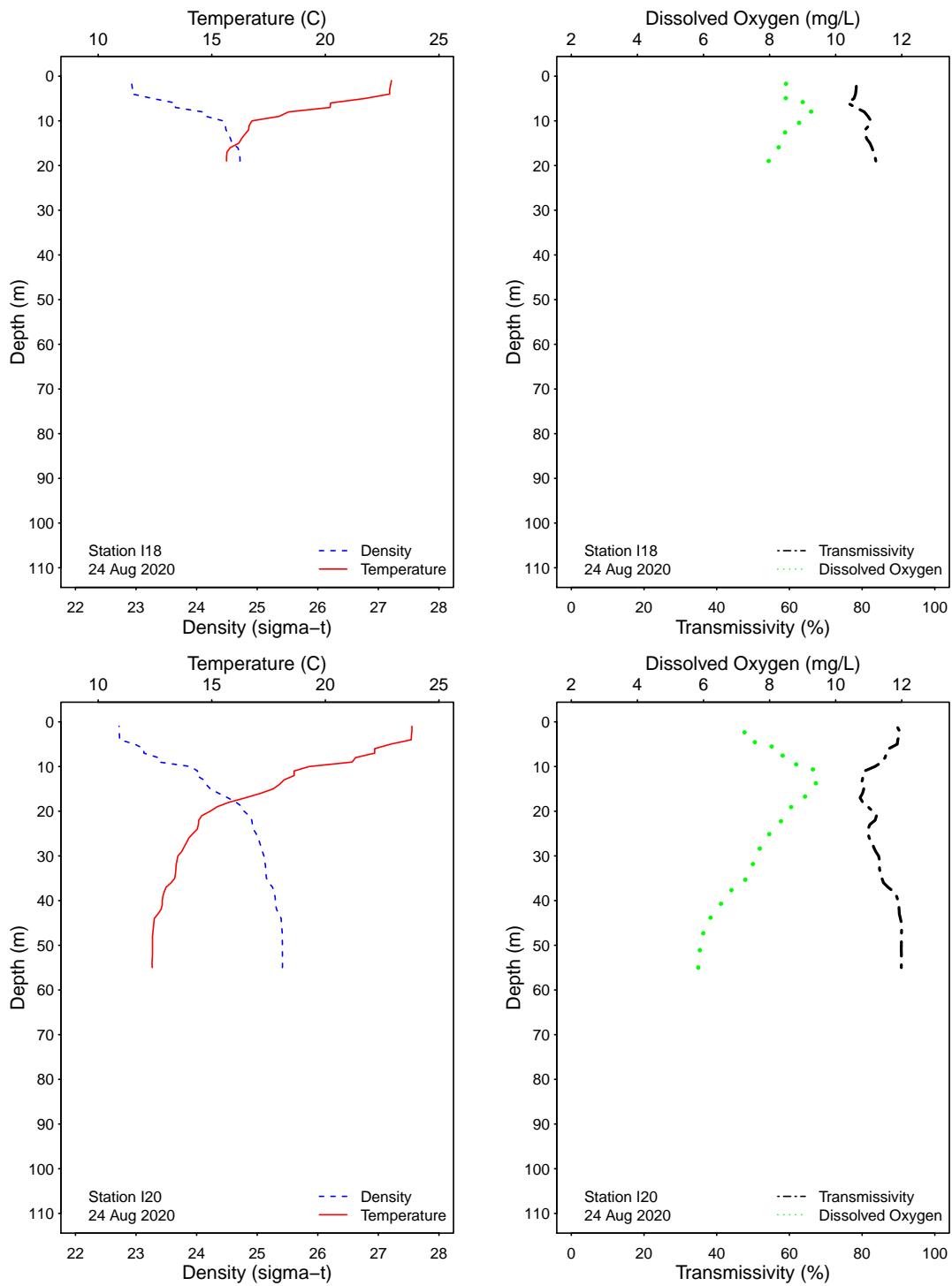


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

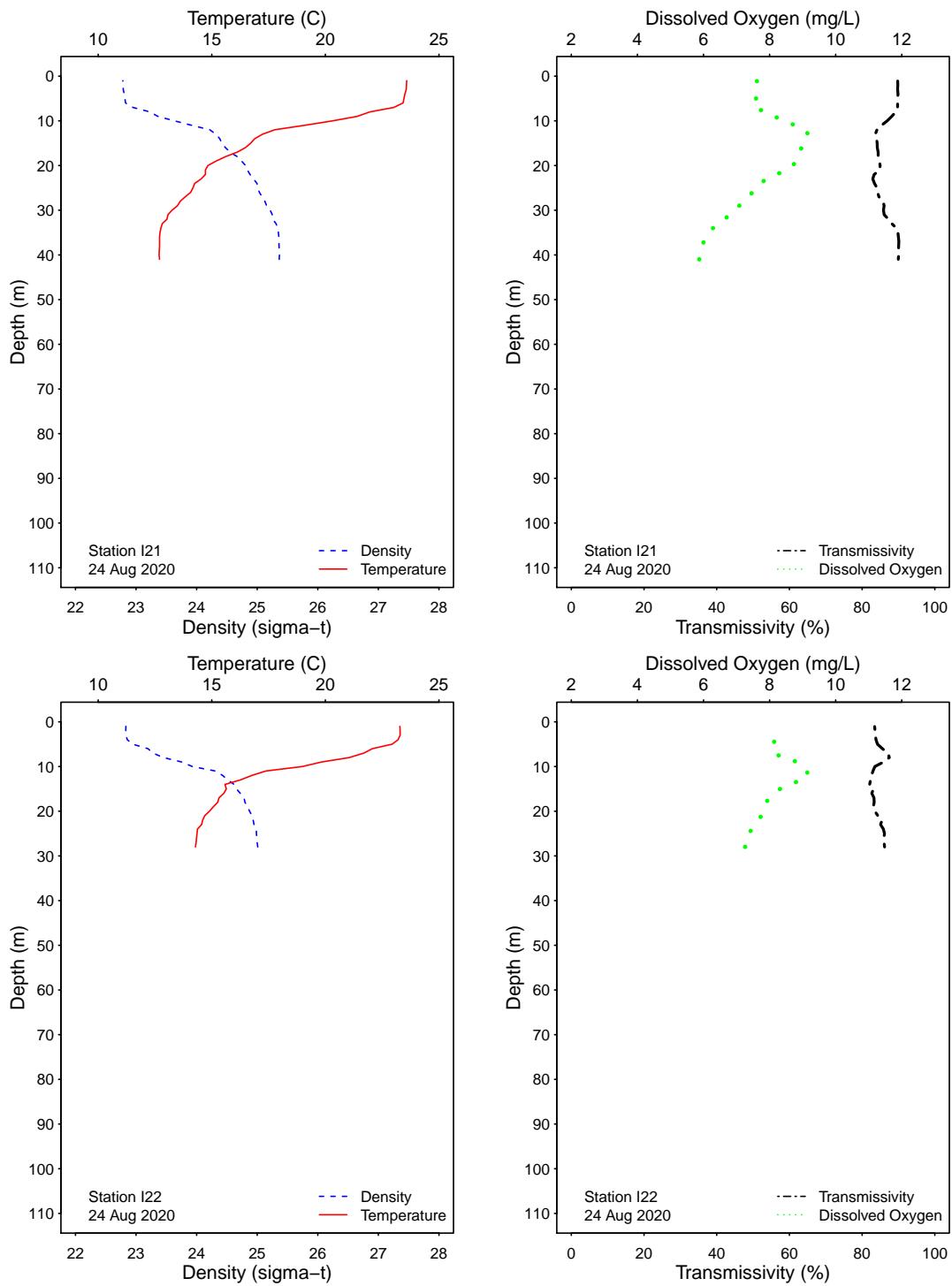


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

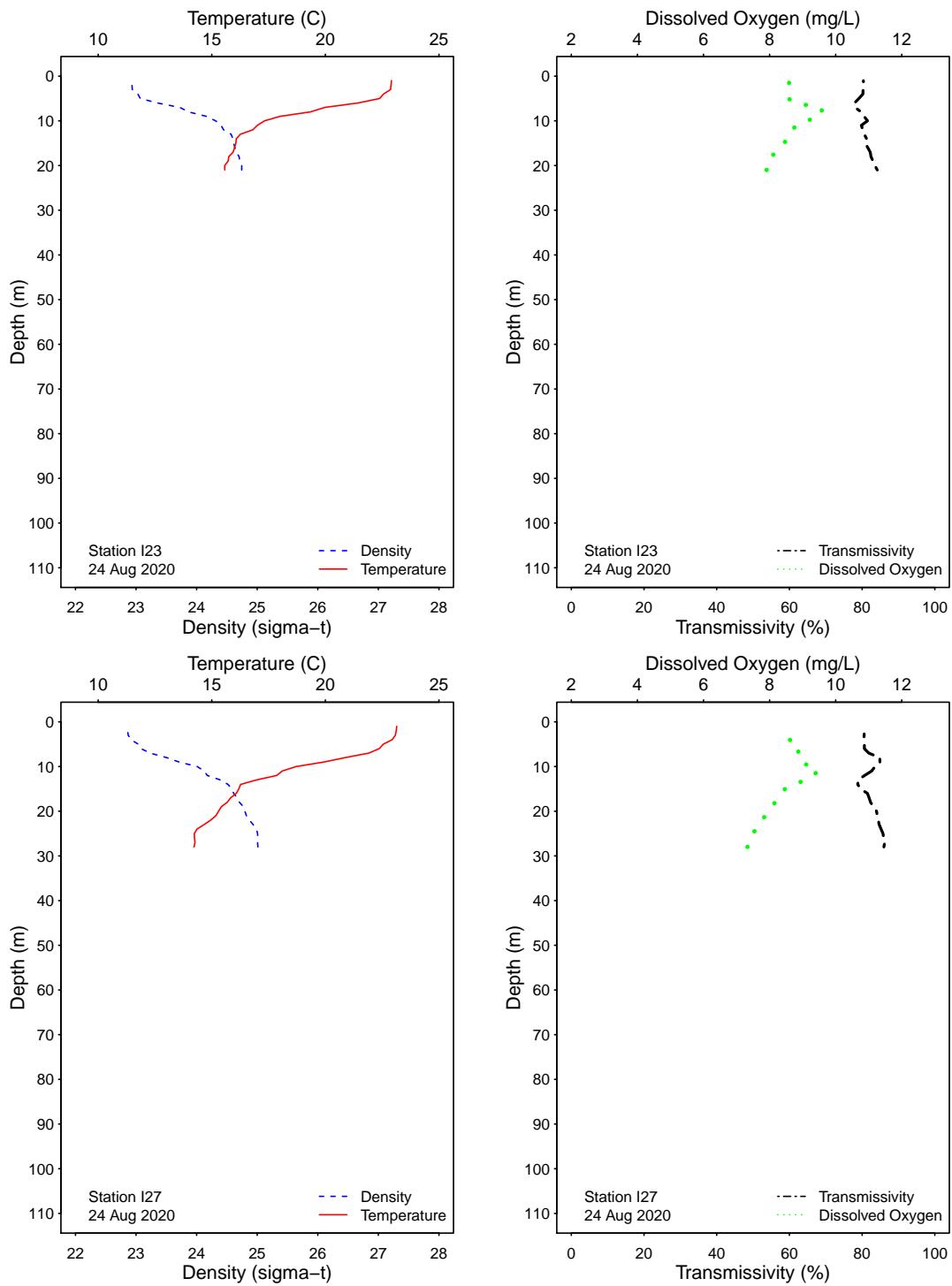


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

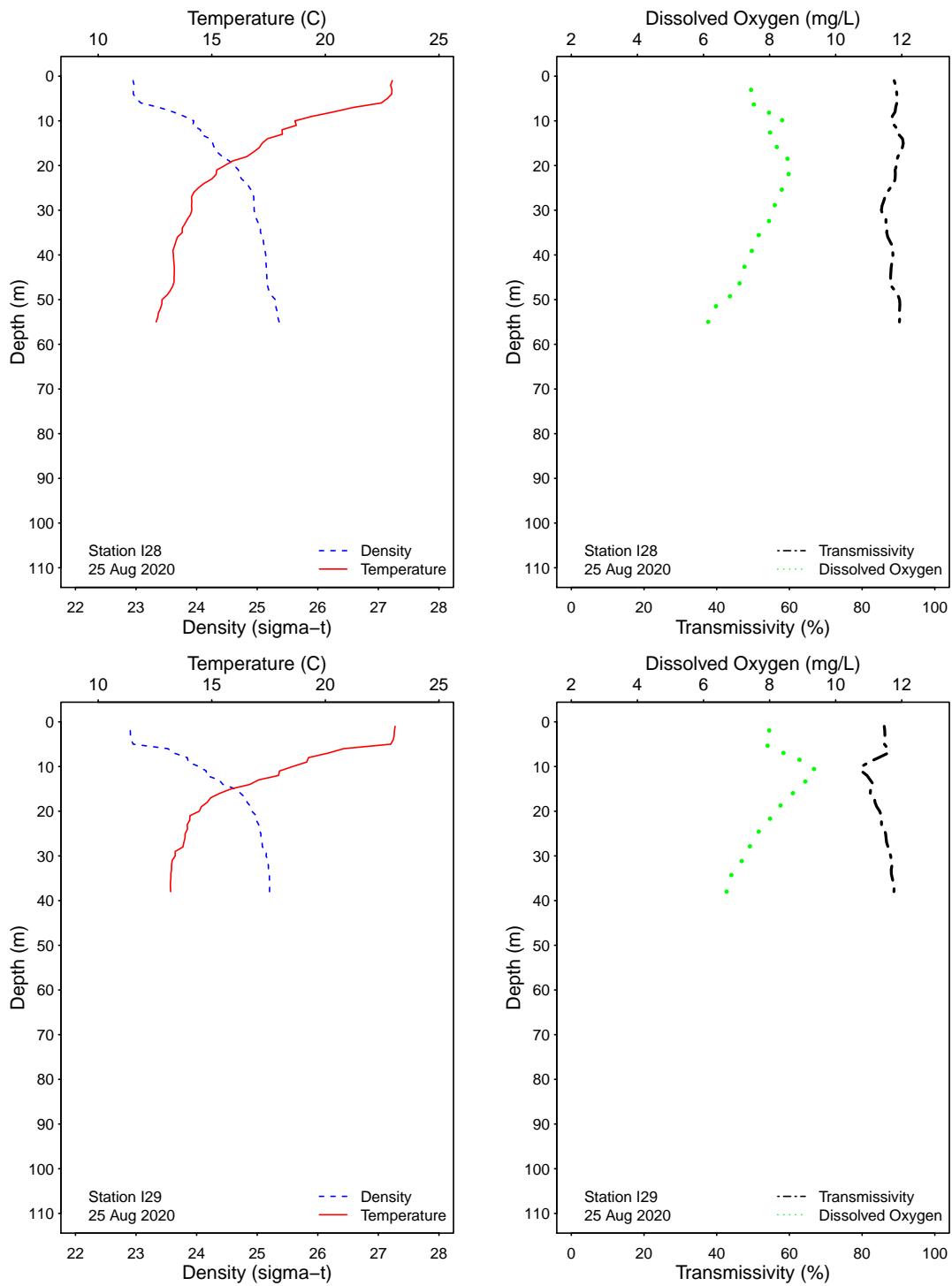


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

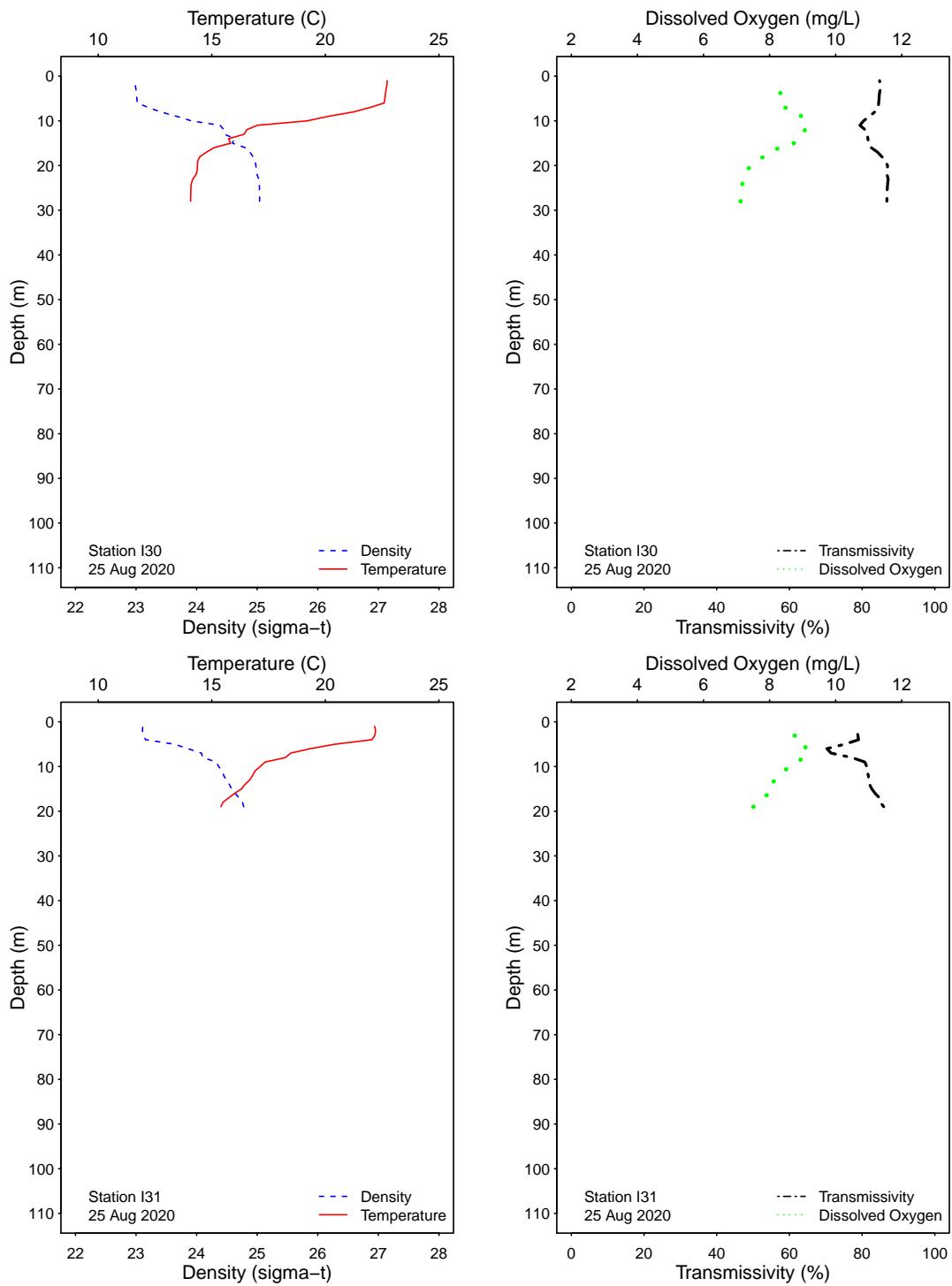


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

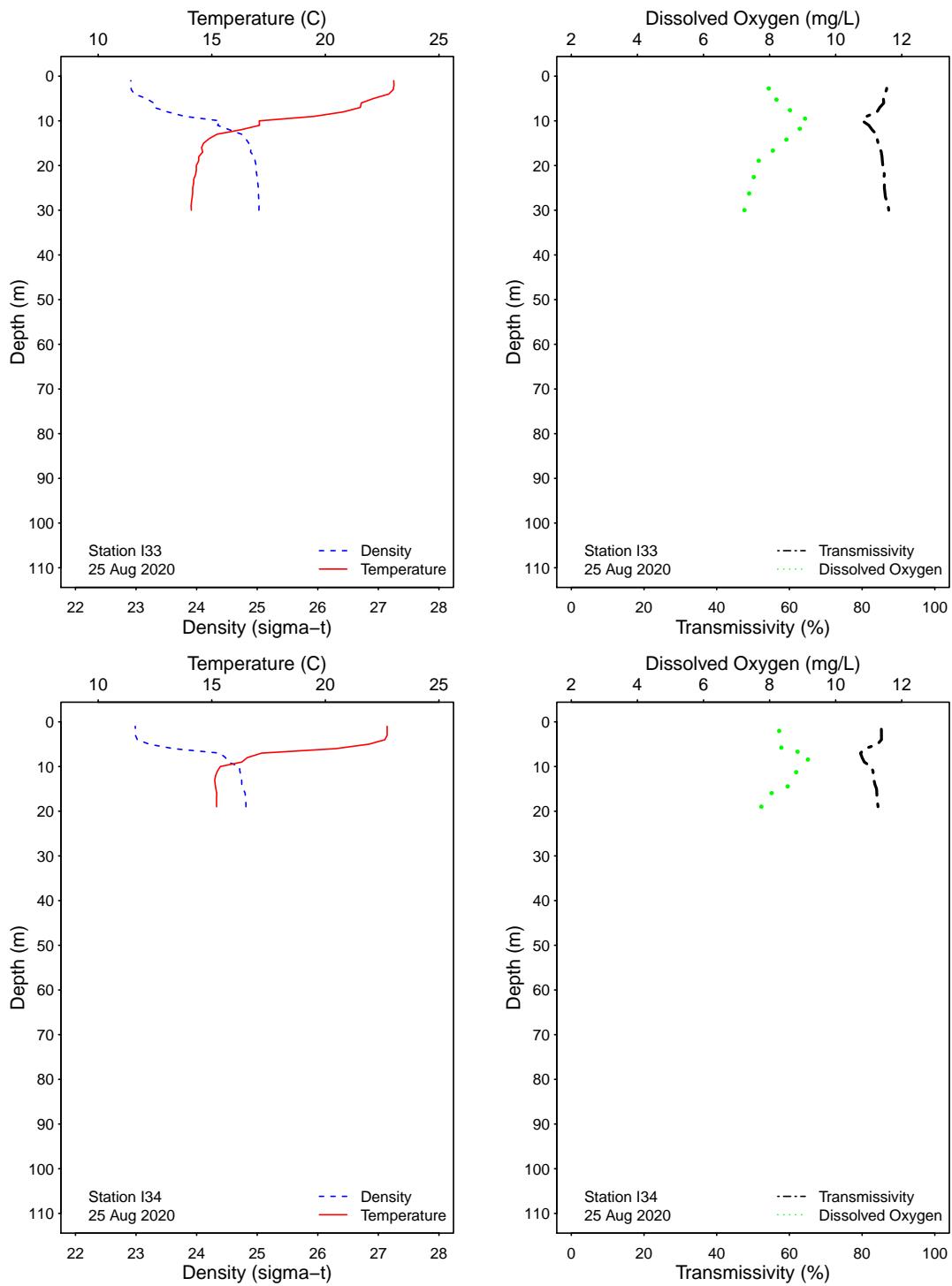


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

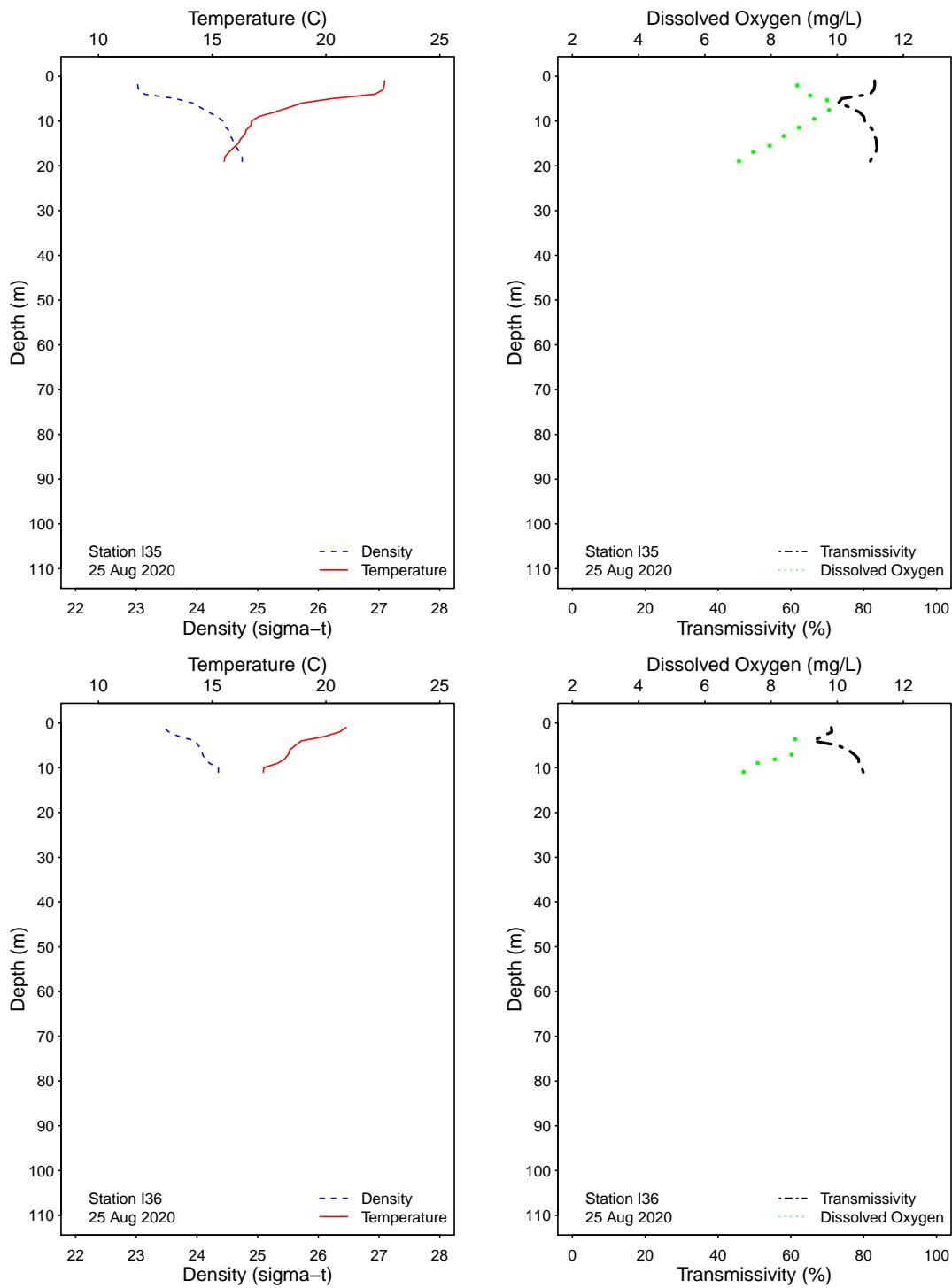


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

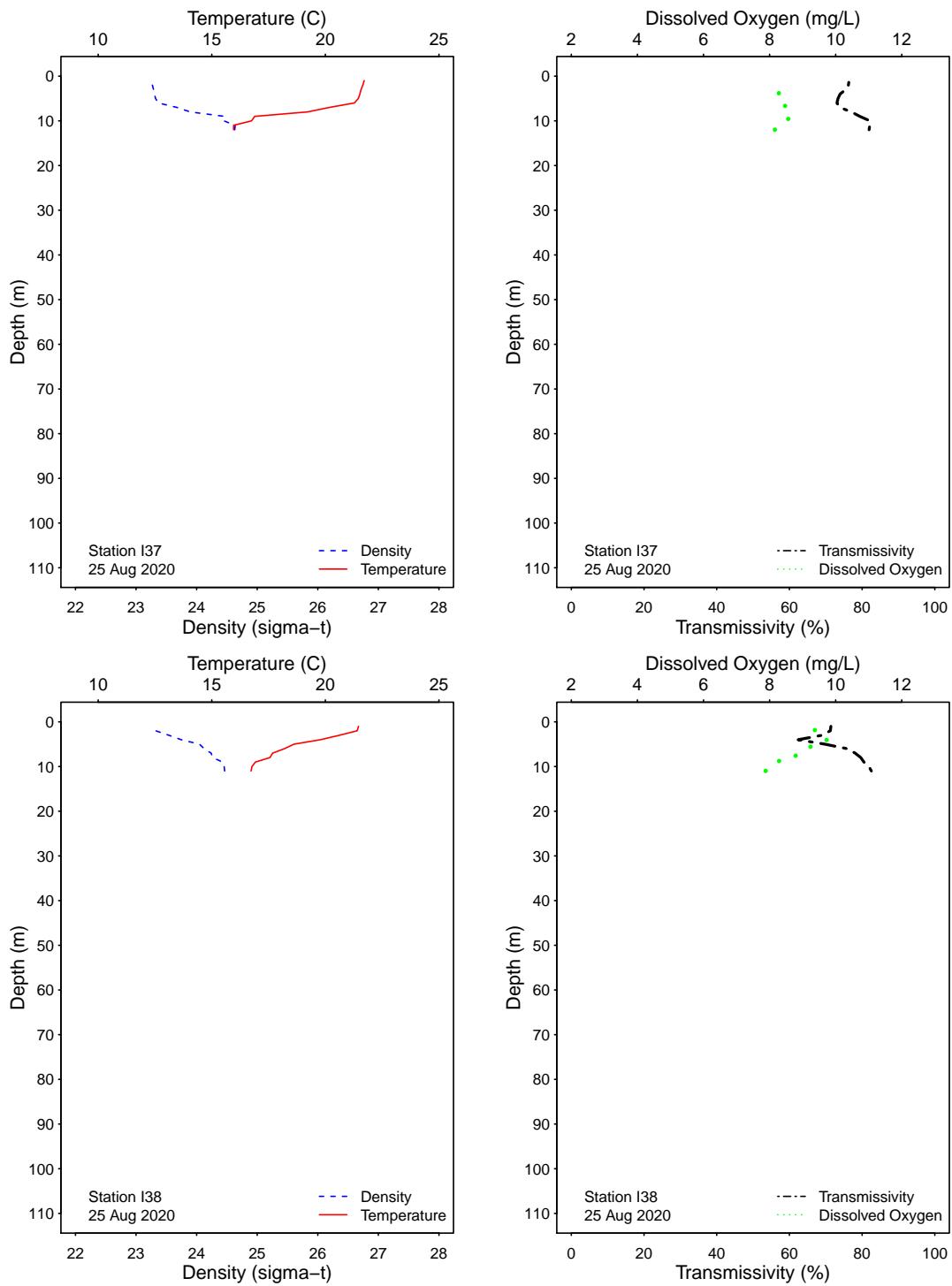


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

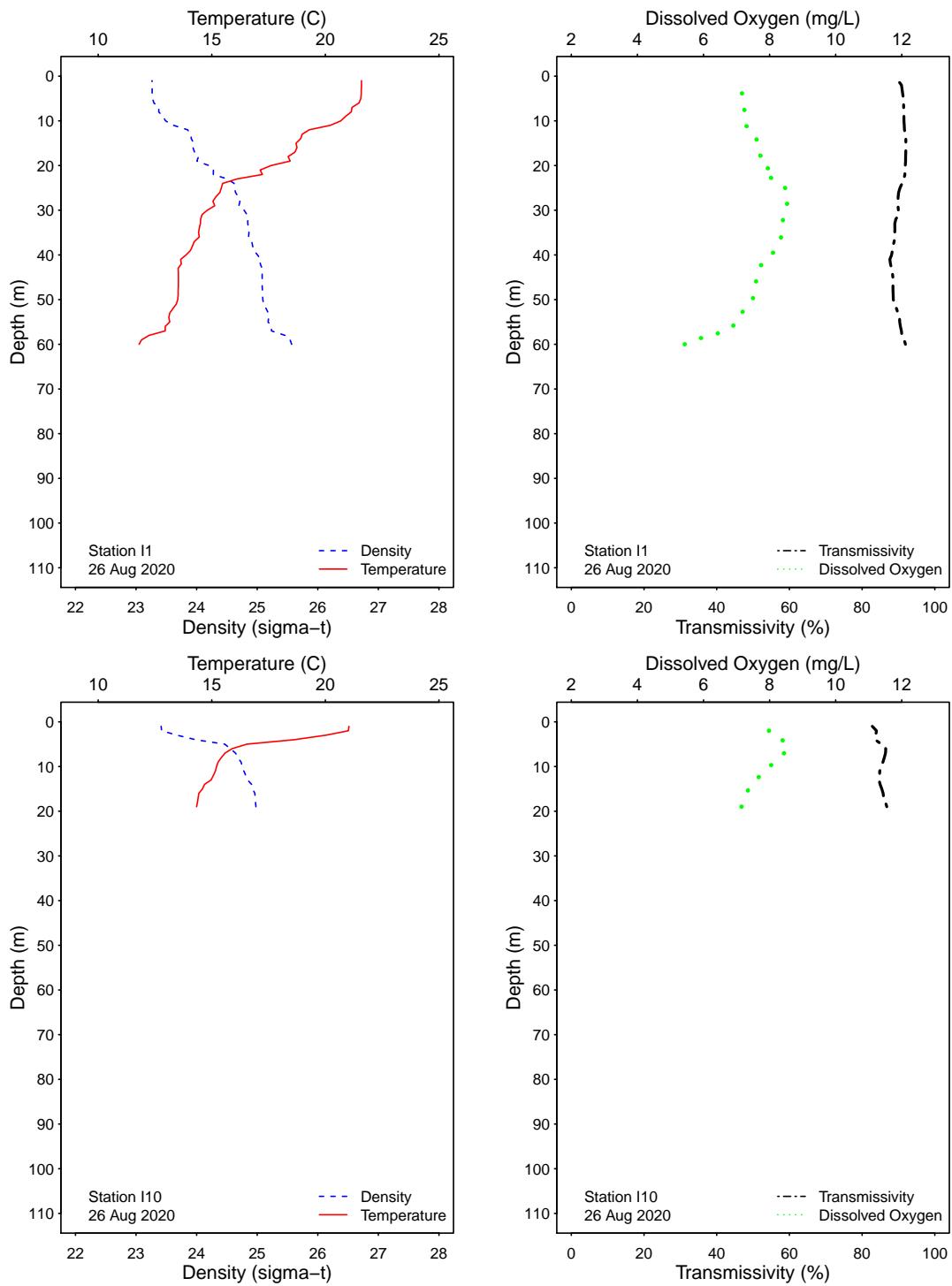


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

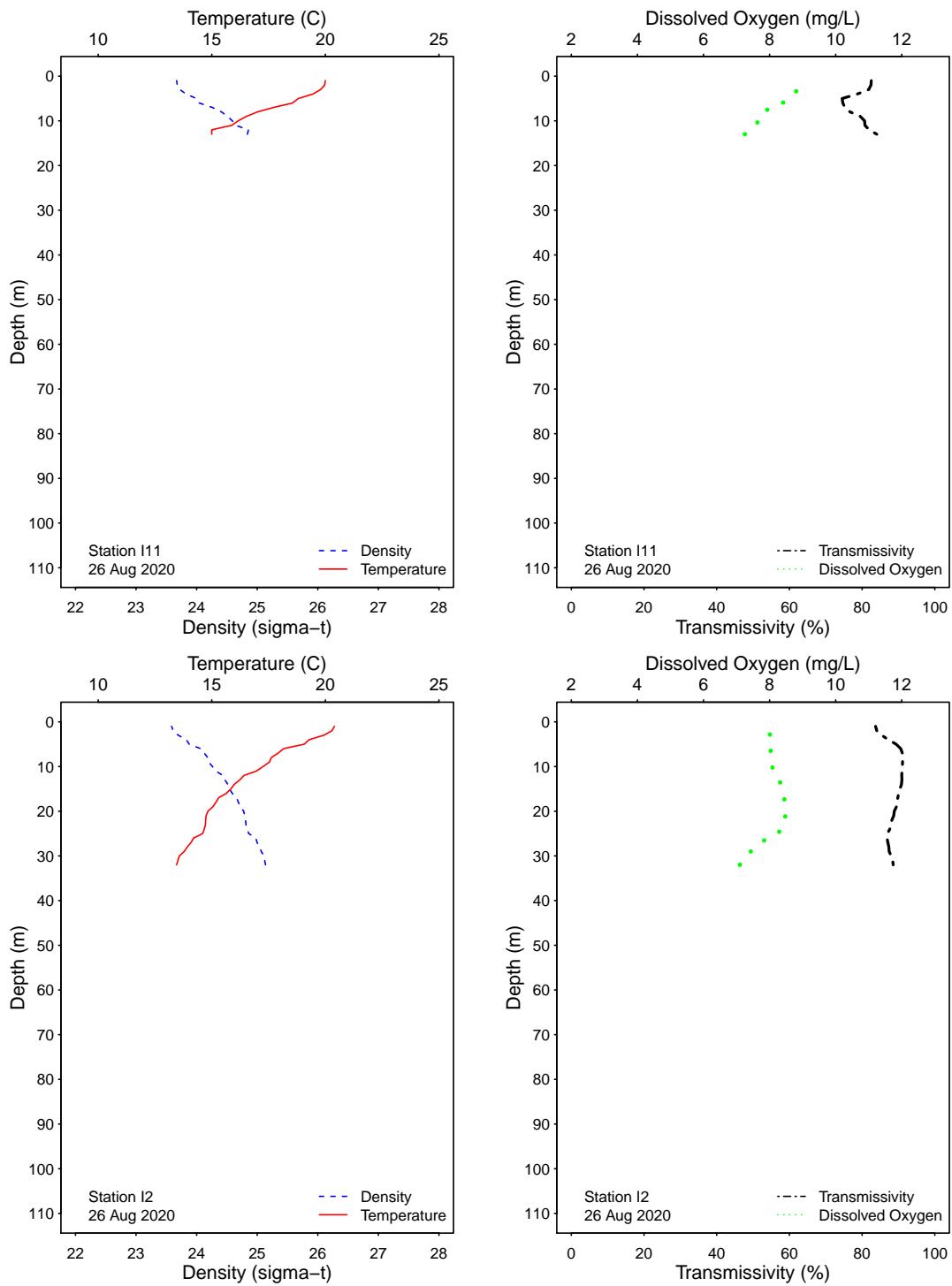


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

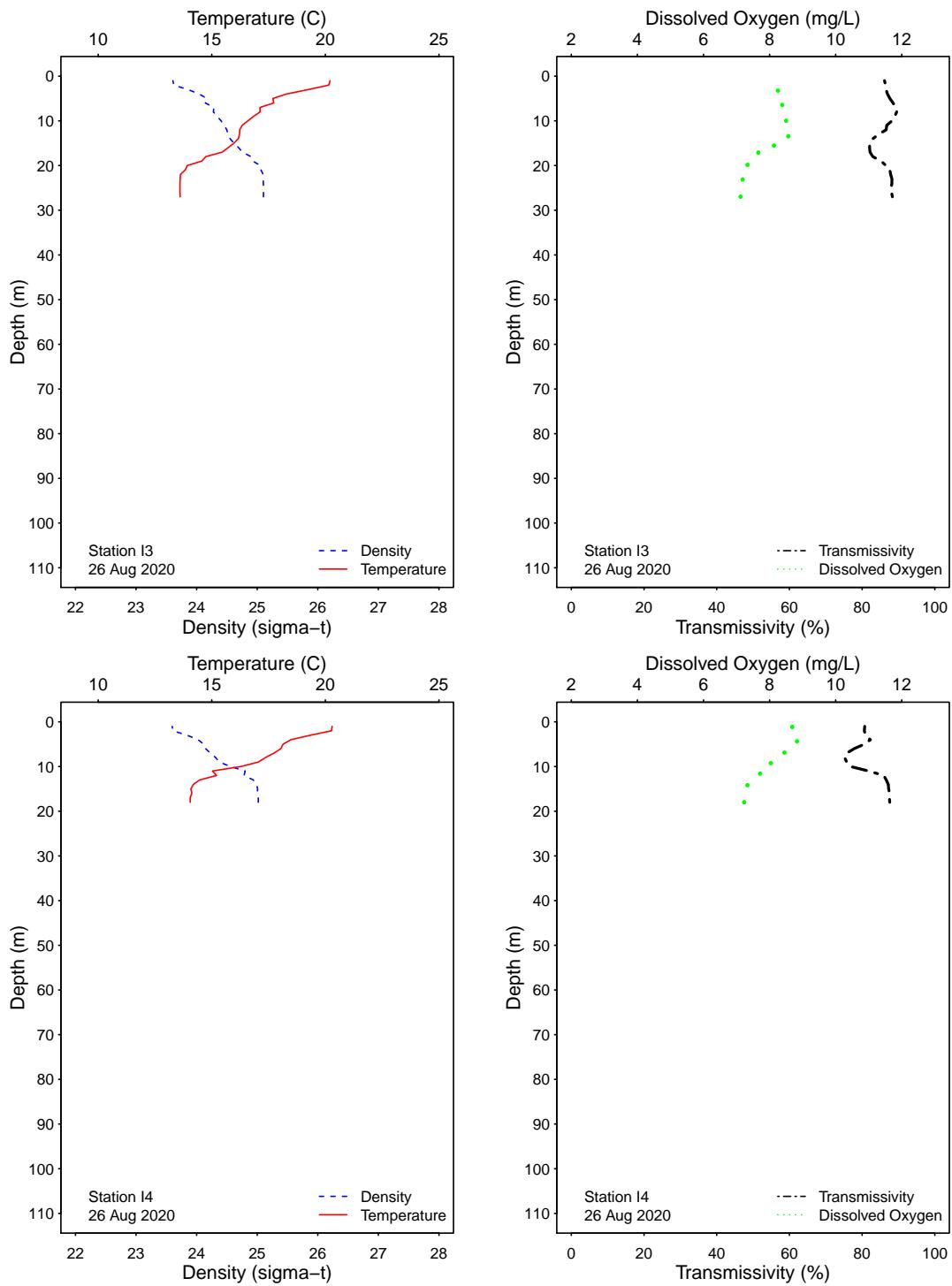


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

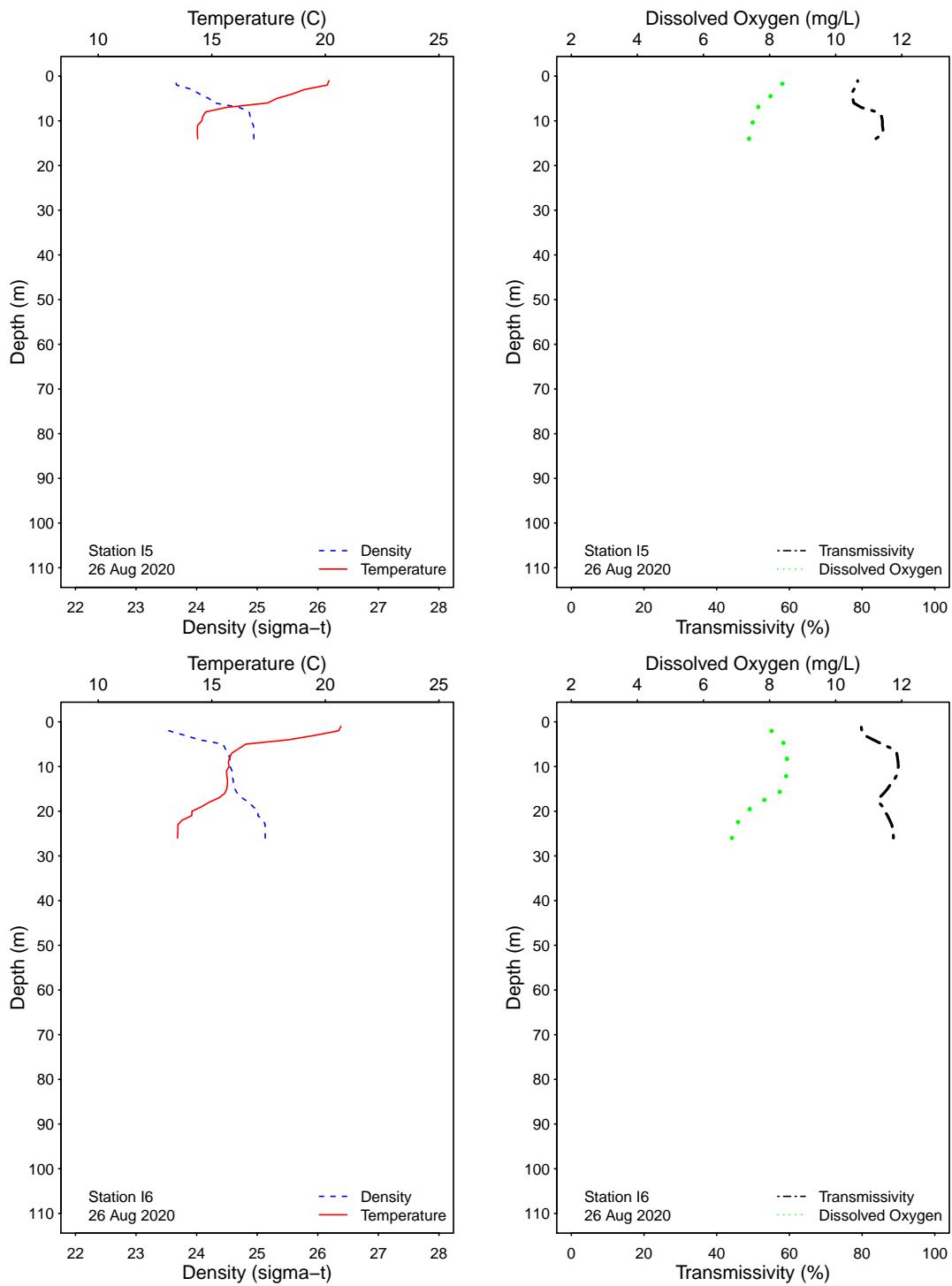


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

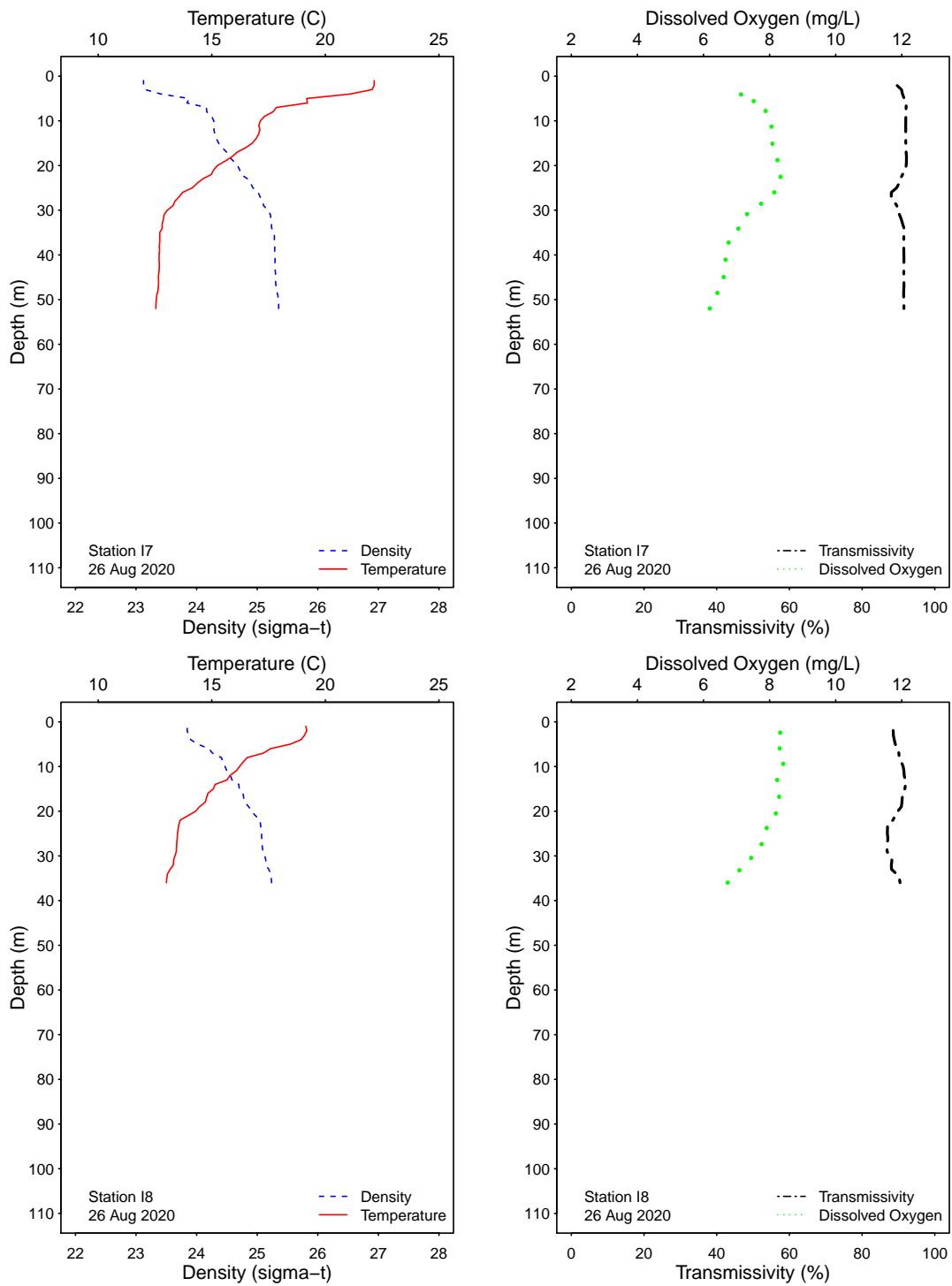


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

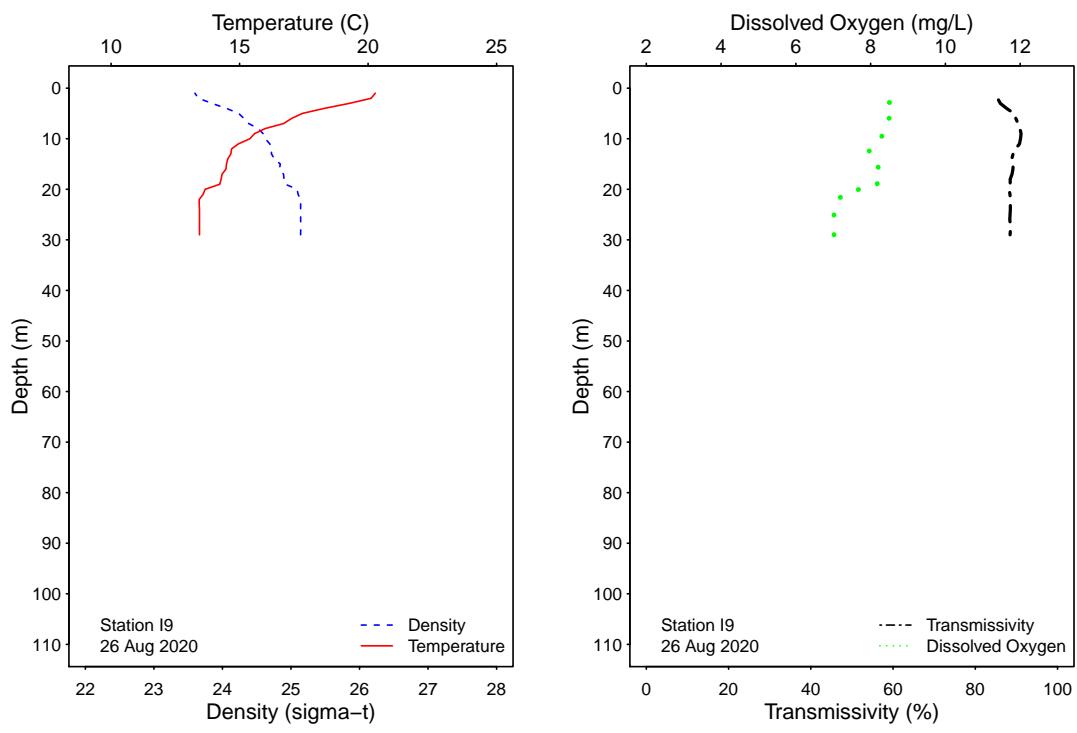


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

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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* (Enter) 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>Enter</b>
I3	26 Aug 2020	18	JF	LAB DUPLICATE	<2	<2	<2
I8	26 Aug 2020	37	JF	LAB DUPLICATE	<2	<2	<2
I9	26 Aug 2020	27	JF	LAB DUPLICATE	<2	2e	<2
I12	24 Aug 2020	18	AE	LAB DUPLICATE	<2	<2	<2
I13	24 Aug 2020	18	AE	LAB DUPLICATE	<2	<2	<2
I14	24 Aug 2020	2	LMA	LAB DUPLICATE	<2	<2	<2
I16	24 Aug 2020	18	AE	LAB DUPLICATE	<2	<2	<2
I19	04 Aug 2020	6	AE	LAB DUPLICATE	6000	1100	540
I19	11 Aug 2020	6	AE	LAB DUPLICATE	<2	<2	<2
I19	17 Aug 2020	6	JF	LAB DUPLICATE	<2	<2	<2
I19	27 Aug 2020	6	AE	LAB DUPLICATE	<2	<2	2e
I19	31 Aug 2020	6	AE	LAB DUPLICATE	<2	<2	<2
I20	24 Aug 2020	55	LMA	LAB DUPLICATE	<2	<2	<2
I30	25 Aug 2020	27	AE	LAB DUPLICATE	2e	<2	<2
I36	25 Aug 2020	11	JF	FIELD DUPLICATE	<2	<2	2e
I36	25 Aug 2020	11	JF	LAB DUPLICATE	<20	<2	<2
I40	04 Aug 2020	6	LMA	LAB DUPLICATE	>16000	4000	760
I40	11 Aug 2020	6	AE	LAB DUPLICATE	2e	<2	<2
I40	17 Aug 2020	6	JF	LAB DUPLICATE	<2	<2	<2
I40	27 Aug 2020	6	LMA	LAB DUPLICATE	<20	<2	<2
I40	31 Aug 2020	6	AE	LAB DUPLICATE	6e	<2	<2
S12	04 Aug 2020		JF	FIELD DUPLICATE	620	120	42
S12	04 Aug 2020		JF	LAB DUPLICATE	200e	140e	32e
S12	11 Aug 2020		AE	FIELD DUPLICATE	<20	<2	<2
S12	11 Aug 2020		AE	LAB DUPLICATE	<20	<2	<2
S12	18 Aug 2020		JF	FIELD DUPLICATE	8200	1200e	100e
S12	18 Aug 2020		JF	LAB DUPLICATE	8400	1400e	120e
S12	25 Aug 2020		AE	FIELD DUPLICATE	<20	2e	<2
S12	25 Aug 2020		AE	LAB DUPLICATE	<20	6e	<2

ns = not sampled

ND = no data

