



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

## **SOUTH BAY WATER RECLAMATION PLANT**

NPDES Permit No. CA0109045  
SDRWQCB Order No. R9-2021-0011

## **AUGUST 2022**

Environmental Monitoring and Technical Services  
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Public Utilities Department

Environmental Monitoring & Technical Services Division

September 30, 2022

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 2022 Monthly Receiving Waters Monitoring Report for the South Bay Ocean Outfall, South Bay Water Reclamation Plant as required per Order No. R9-2021-0011, 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. R9-2021-0001, 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,

A handwritten signature in blue ink that reads "Peter S. Vroom".

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

PV/rk

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



## INTRODUCTION

Monthly reports of water quality and ocean conditions from Playa Blanco, Mexico to Coronado, USA are submitted to the San Diego Regional Water Quality Control Board and U.S. EPA Region 9 in accordance with Order No. R9-2021-0011, 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 water-contact standards specified in the 2019 California Ocean Plan (Ocean Plan). The six standards are defined as follows:

#### **Water-Contact Objectives**

##### **Fecal coliform:**

- (1) The 30-day geometric mean (GM) of fecal coliform density not to exceed 200 CFU/100 mL, calculated based on the five most recent samples from each site
- (2) The single sample maximum (SSM) not to exceed 400 CFU/100 mL

##### ***Enterococci:***

- (1) The six-week rolling GM of *Enterococci* not to exceed 30 CFU/100 mL, calculated weekly
- (2) The statistical threshold value (STV) of 110 CFU/100 mL not to be exceeded by more than 10 percent of the samples collected in a calendar month, calculated in a static manner

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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.

## Shellfish Harvesting Standards

### Total coliform:

- (1) The median total coliform density shall not exceed 70 CFU/100 mL
- (2) The STV of 230 CFU/100 mL not to be exceeded by more than 10 percent of the samples collected in a calendar month, calculated in a static manner

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 2022 Quality Assurance Report, which will be completed in March 2023.

## 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, five of the eight shore stations located north of the border were out of compliance with the 2019 California Ocean Plan (Ocean Plan) water contact standards on one or more days as follows:
  - The 30-day running geometric mean standard for fecal coliforms was exceeded at station S5.
  - The single sample maximum (SSM) standard for fecal coliforms was exceeded at stations S5, S6, S11, and S12.
  - The 6-week running geometric mean standard for *Enterococcus* was exceeded at stations S5, S6, S11, and S12.

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

- The statistical threshold value (STV) standard for *Enterococcus* was exceeded at stations S5, S6, S11, and S12.
  - The 30-day running median standard for total coliforms was exceeded at stations S5, S6, S9, S11, and S12.
  - The STV standard for total coliforms was exceeded at stations S5, S6, S11, and S12.
- A sewage-like odor was observed at stations S5, S6, S8, S11, and S12 on one or more days in August.
- 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 2, 8, 15, 23, and 30.
- During August, four of the seven kelp bed stations were out of compliance with the various 2019 Ocean Plan water contact standards on one or more days as follows:
  - The SSM standard for fecal coliforms was exceeded at stations I24, I25, and I40.
  - The STV standard for *Enterococcus* was exceeded at station I40.
  - The 30-day running median standard for total coliforms was exceeded at stations I19, I24, I25, and I40.
  - The STV standard for total coliforms was exceeded at stations I19, I24, I25, and I40.
- Water column temperatures ranged from 12.55 to 21.65°C. The difference between surface and bottom waters ranged from 1.60 to 8.28°C.
- Concentrations of chlorophyll *a* ranged from 0.72 to 16.87 µg/L at the kelp bed stations.
- Nothing of sewage origin was observed at any of the kelp stations.

➤ **Offshore Water Quality Sampling**

- Quarterly offshore water quality sampling was conducted over three days during the month (i.e., August 9, 10, and 11).
- During August, two of the offshore stations located within State jurisdictional waters (i.e., I12, I14, I16, I18, I22, I23, I33, I36–I38) was out of compliance with the various 2019 Ocean Plan water contact standards on one or more days as follows:
  - The SSM standard for fecal coliforms was exceeded at stations I12 and I16.
  - The STV standard for *Enterococcus* was exceeded at stations I12 and I16.
  - The STV standard for total coliforms was exceeded at stations I12 and I16
- Water column temperatures ranged from 10.74 to 22.67°C at the offshore sites. The difference between surface and bottom waters ranged from 2.67 to 11.57°C.

- Chlorophyll *a* concentrations ranged from 0.26 to 10.21 µg/L at the offshore sites.
- CDOM data are available upon request.
- Nothing of sewage origin was observed at any of the offshore stations.





## 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 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 2022	10	4	4	2	12	8	4	4
02 Aug 2022	7	18	10	2	8	8	11	6
03 Aug 2022	7	18	10	2	8	8	11	6
04 Aug 2022	10	31	16	2	8	11	18	7
05 Aug 2022	10	31	16	2	8	11	18	7
06 Aug 2022	10	31	16	2	8	11	18	7
07 Aug 2022	10	31	16	2	8	11	18	7
08 Aug 2022	10	31	16	2	8	11	18	7
09 Aug 2022	9	38	28	2	9	8	29	25
10 Aug 2022	9	38	28	2	9	8	29	25
11 Aug 2022	9	79	55	2	6	9	56	39
12 Aug 2022	9	79	55	2	6	9	56	39
13 Aug 2022	9	79	55	2	6	9	56	39
14 Aug 2022	9	79	55	2	6	9	56	39
15 Aug 2022	9	79	55	2	6	9	56	39
16 Aug 2022	8	216	86	2	8	8	106	22
17 Aug 2022	8	216	86	2	8	8	106	22
18 Aug 2022	3	392	121	2	9	4	135	23
19 Aug 2022	3	392	121	2	9	4	135	23
20 Aug 2022	3	392	121	2	9	4	135	23
21 Aug 2022	3	392	121	2	9	4	135	23
22 Aug 2022	3	392	121	2	9	4	135	23
23 Aug 2022	3	136	53	2	6	3	58	18
24 Aug 2022	3	136	53	2	6	3	58	18
25 Aug 2022	4	392	121	2	5	4	135	30
26 Aug 2022	4	392	121	2	5	4	135	30
27 Aug 2022	4	392	121	2	5	4	135	30
28 Aug 2022	4	392	121	2	5	4	135	30
29 Aug 2022	4	392	121	2	5	4	135	30
30 Aug 2022	3	136	53	2	4	4	73	18
31 Aug 2022	3	136	53	2	4	4	73	18

\* Geometric mean calculated using n<5

**Table 2.2**

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
02 Aug 2022	IC	E	E	IC	IC	IC	E	IC
09 Aug 2022	IC	IC	IC	IC	IC	IC	IC	E
16 Aug 2022	IC	E	E	IC	IC	IC	E	IC
23 Aug 2022	IC	IC	IC	IC	IC	IC	IC	IC
30 Aug 2022	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 2.3**

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Aug 2022	12	4	4	3	6	9	4	4
02 Aug 2022	17	14	7	4	6	12	7	5
03 Aug 2022	17	14	7	4	6	12	7	5
04 Aug 2022	17	14	7	4	6	12	7	5
05 Aug 2022	17	14	7	4	6	12	7	5
06 Aug 2022	17	14	7	4	6	12	7	5
07 Aug 2022	17	14	7	4	6	12	7	5
08 Aug 2022	17	14	7	4	6	12	7	5
09 Aug 2022	17	23	15	4	7	9	17	13
10 Aug 2022	17	23	15	4	7	9	17	13
11 Aug 2022	17	23	15	4	7	9	17	13
12 Aug 2022	17	23	15	4	7	9	17	13
13 Aug 2022	17	23	15	4	7	9	17	13
14 Aug 2022	17	23	15	4	7	9	17	13
15 Aug 2022	17	23	15	4	7	9	17	13
16 Aug 2022	19	87	41	4	7	9	56	20
17 Aug 2022	19	87	41	4	7	9	56	20
18 Aug 2022	19	87	41	4	7	9	56	20
19 Aug 2022	19	87	41	4	7	9	56	20
20 Aug 2022	19	87	41	4	7	9	56	20
21 Aug 2022	19	87	41	4	7	9	56	20
22 Aug 2022	19	87	41	4	7	9	56	20
23 Aug 2022	14	77	41	3	7	8	56	31
24 Aug 2022	14	77	41	3	7	8	56	31
25 Aug 2022	14	77	41	3	7	8	56	31
26 Aug 2022	14	77	41	3	7	8	56	31
27 Aug 2022	14	77	41	3	7	8	56	31
28 Aug 2022	14	77	41	3	7	8	56	31
29 Aug 2022	14	77	41	3	7	8	56	31
30 Aug 2022	6	70	24	4	7	4	31	18
31 Aug 2022	6	70	24	4	7	4	31	18

\* Geometric mean calculated using n<5

**Table 2.4**

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

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

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 2.5**

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO shore stations. Data are based on the median of the five most recent samples from each site over the previous 30 days unless otherwise noted (\*). Values >70 CFU/100 mL exceed the standard.

<b>Date</b>	<b>S4</b>	<b>S5</b>	<b>S6</b>	<b>S8</b>	<b>S9</b>	<b>S10</b>	<b>S11</b>	<b>S12</b>
01 Aug 2022	31	20	11	20	<b>100</b>	31	20	20
02 Aug 2022	20	20	20	20	40	60	20	20
03 Aug 2022	20	20	20	20	40	60	20	20
04 Aug 2022	40	<b>810</b>	<b>100</b>	20	<b>110</b>	60	<b>250</b>	20
05 Aug 2022	40	<b>810</b>	<b>100</b>	20	<b>110</b>	60	<b>250</b>	20
06 Aug 2022	40	<b>810</b>	<b>100</b>	20	<b>110</b>	60	<b>250</b>	20
07 Aug 2022	40	<b>810</b>	<b>100</b>	20	<b>110</b>	60	<b>250</b>	20
08 Aug 2022	40	<b>810</b>	<b>100</b>	20	<b>110</b>	60	<b>250</b>	20
09 Aug 2022	20	<b>380</b>	<b>180</b>	20	40	60	<b>480</b>	20
10 Aug 2022	20	<b>380</b>	<b>180</b>	20	40	60	<b>480</b>	20
11 Aug 2022	20	<b>990</b>	<b>1690</b>	20	30	37	<b>1940</b>	<b>90</b>
12 Aug 2022	20	<b>990</b>	<b>1690</b>	20	30	37	<b>1940</b>	<b>90</b>
13 Aug 2022	20	<b>990</b>	<b>1690</b>	20	30	37	<b>1940</b>	<b>90</b>
14 Aug 2022	20	<b>990</b>	<b>1690</b>	20	30	37	<b>1940</b>	<b>90</b>
15 Aug 2022	20	<b>990</b>	<b>1690</b>	20	30	37	<b>1940</b>	<b>90</b>
16 Aug 2022	20	<b>1600</b>	<b>3200</b>	20	20	20	<b>3400</b>	<b>100</b>
17 Aug 2022	20	<b>1600</b>	<b>3200</b>	20	20	20	<b>3400</b>	<b>100</b>
18 Aug 2022	20	<b>8190</b>	<b>5800</b>	20	30	17	<b>6700</b>	60
19 Aug 2022	20	<b>8190</b>	<b>5800</b>	20	30	17	<b>6700</b>	60
20 Aug 2022	20	<b>8190</b>	<b>5800</b>	20	30	17	<b>6700</b>	60
21 Aug 2022	20	<b>8190</b>	<b>5800</b>	20	30	17	<b>6700</b>	60
22 Aug 2022	20	<b>8190</b>	<b>5800</b>	20	30	17	<b>6700</b>	60
23 Aug 2022	20	<b>380</b>	<b>3200</b>	20	20	20	<b>3400</b>	40
24 Aug 2022	20	<b>380</b>	<b>3200</b>	20	20	20	<b>3400</b>	40
25 Aug 2022	20	<b>8190</b>	<b>5800</b>	20	20	20	<b>6700</b>	70
26 Aug 2022	20	<b>8190</b>	<b>5800</b>	20	20	20	<b>6700</b>	70
27 Aug 2022	20	<b>8190</b>	<b>5800</b>	20	20	20	<b>6700</b>	70
28 Aug 2022	20	<b>8190</b>	<b>5800</b>	20	20	20	<b>6700</b>	70
29 Aug 2022	20	<b>8190</b>	<b>5800</b>	20	20	20	<b>6700</b>	70
30 Aug 2022	20	<b>380</b>	<b>3200</b>	20	20	20	<b>3400</b>	40
31 Aug 2022	20	<b>380</b>	<b>3200</b>	20	20	20	<b>3400</b>	40

\* Median calculated using n<5

**Table 2.6**

Summary of compliance at the SBOO shore stations with the Ocean Plan's Statistical Threshold Value for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per station, per month.

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

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 2.7**

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

Station	Date	Time	Total	Fecal	Entero
S0	02 Aug 2022	1002	3200e	940	960
S0	09 Aug 2022	850	12000	3000e	560
S0	16 Aug 2022	1205	4400	940	360e
S0	23 Aug 2022	910	>16000	4400	2000e
S0	30 Aug 2022	1140	400e	180e	88
S2	02 Aug 2022	900	340e	56	98
S2	09 Aug 2022	945	20e	8e	8e
S2	16 Aug 2022	1230	<20	4e	6e
S2	23 Aug 2022	1000	60e	2e	2e
S2	30 Aug 2022	1050	20e	<2	2e
S3	02 Aug 2022	930	40e	14e	18e
S3	09 Aug 2022	925	920	10e	14e
S3	16 Aug 2022	1246	220e	28e	60e
S3	23 Aug 2022	935	20e	4e	4e
S3	30 Aug 2022	1105	<20	<2	4e
S4	02 Aug 2022	1010	20e	2e	18e
S4	09 Aug 2022	1058	20e	6e	48
S4	16 Aug 2022	954	<20	4e	4e
S4	23 Aug 2022	1124	<20	4e	<2
S4	30 Aug 2022	1021	<20	2e	4e
S5	02 Aug 2022	817	>16000	>12000	2200e
S5	09 Aug 2022	926	380e	82	40
S5	16 Aug 2022	803	>16000	>12000	>12000
S5	23 Aug 2022	958	40e	<2	2e
S5	30 Aug 2022	838	20e	2e	28e
S6	02 Aug 2022	843	8400	720	80
S6	09 Aug 2022	949	3200e	280e	280e
S6	16 Aug 2022	831	8600	540	1000e
S6	23 Aug 2022	1017	<20	2e	2e
S6	30 Aug 2022	901	<20	<2	<2
S8	02 Aug 2022	1104	2e	<2	20e
S8	09 Aug 2022	843	<20	<2	<2
S8	16 Aug 2022	1102	<20	<2	<2
S8	23 Aug 2022	909	<20	<2	<2
S8	30 Aug 2022	1107	20e	<2	8e
S9	02 Aug 2022	1130	40e	2e	2e
S9	09 Aug 2022	817	20e	10e	12e
S9	16 Aug 2022	1132	<20	<20	<2
S9	23 Aug 2022	845	<20	<2	12e
S9	30 Aug 2022	1133	<20	<2	<2
S10	02 Aug 2022	958	60e	8e	24e
S10	09 Aug 2022	1104	14e	<2	6e
S10	16 Aug 2022	939	<20	6e	<2
S10	23 Aug 2022	1134	<20	<2	<2
S10	30 Aug 2022	1011	<200	6e	<2

<b>Station</b>	<b>Date</b>	<b>Time</b>	<b>Total</b>	<b>Fecal</b>	<b>Enter</b>
S11	02 Aug 2022	832	10000	600e	100
S11	09 Aug 2022	939	3400e	200e	500
S11	16 Aug 2022	818	>16000	1400e	2400e
S11	23 Aug 2022	1010	20e	2e	2e
S11	30 Aug 2022	850	<20	6e	2e
S12	02 Aug 2022	909	<20	<20	10e
S12	09 Aug 2022	902	6800	3600e	1100
S12	16 Aug 2022	854	100e	<2	32e
S12	23 Aug 2022	926	40e	6e	22e
S12	30 Aug 2022	920	<20	<2	<2

ns = not sampled

ND = no data

### Comments

Station	Date	Depth	Parameter	Comments
	02 Aug 2022			For Total Coliform-Bottom incubator thermometer was 0.1 degrees over acceptable temperature range. Unlikely to have affected results. CRE 09.01.2022.
	30 Aug 2022			For Total Coliform-Bottom incubator thermometer was 0.1 degrees over acceptable temperature range. Unlikely to have affected results. CRE 09.01.2022.

**Table 2.8**

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

Station	Date	Parameter	Value
S0	02 Aug 2022	Arrive Time	
S0	02 Aug 2022	Weather	Sunny
S0	02 Aug 2022	Wind Speed (kts)	1.9
S0	02 Aug 2022	Wind Dir	N
S0	02 Aug 2022	Animal Life	Bird-15
S0	02 Aug 2022	Floatables	None
S0	02 Aug 2022	Water Color	Green
S0	02 Aug 2022	Current Direction	N
S0	02 Aug 2022	Water Temp (C)	16
S0	02 Aug 2022	Wave Height Low (ft)	3
S0	02 Aug 2022	High Tide (ft)	4.32
S0	02 Aug 2022	High Tide Time	1308
S0	02 Aug 2022	Low Tide (ft)	0.46
S0	02 Aug 2022	Low Tide Time	639
S0	02 Aug 2022	Comments	Kelp; Algae; 1.0 L/sec water flow from storm drain
S0	09 Aug 2022	Arrive Time	903
S0	09 Aug 2022	Weather	Sunny
S0	09 Aug 2022	Wind Speed (kts)	1.1
S0	09 Aug 2022	Wind Dir	S
S0	09 Aug 2022	Animal Life	Dog-1; Seagull-20
S0	09 Aug 2022	Floatables	None
S0	09 Aug 2022	Water Color	Green
S0	09 Aug 2022	Current Direction	S
S0	09 Aug 2022	Water Temp (C)	17
S0	09 Aug 2022	Wave Height Low (ft)	2
S0	09 Aug 2022	High Tide (ft)	3.82
S0	09 Aug 2022	High Tide Time	843
S0	09 Aug 2022	Low Tide (ft)	-0.87
S0	09 Aug 2022	Low Tide Time	215
S0	09 Aug 2022	Comments	Kelp; Algae; 1.0 L/sec water flowing from storm drain
S0	16 Aug 2022	Arrive Time	
S0	16 Aug 2022	Weather	Cloudy
S0	16 Aug 2022	Wind Speed (kts)	1.7
S0	16 Aug 2022	Wind Dir	N
S0	16 Aug 2022	Animal Life	Seagull-15
S0	16 Aug 2022	Floatables	None
S0	16 Aug 2022	Water Color	Green
S0	16 Aug 2022	Current Direction	N
S0	16 Aug 2022	Water Temp (C)	16
S0	16 Aug 2022	Wave Height Low (ft)	3
S0	16 Aug 2022	High Tide (ft)	4.75
S0	16 Aug 2022	High Tide Time	22
S0	16 Aug 2022	Low Tide (ft)	0.7
S0	16 Aug 2022	Low Tide Time	648
S0	16 Aug 2022	Comments	Kelp; Algae; 1.0 L/sec water flowing from storm drain
S0	23 Aug 2022	Arrive Time	910
S0	23 Aug 2022	Weather	Foggy
S0	23 Aug 2022	Wind Speed (kts)	1
S0	23 Aug 2022	Wind Dir	NE
S0	23 Aug 2022	Animal Life	Bird-10; Dog-4
S0	23 Aug 2022	Floatables	None
S0	23 Aug 2022	Water Color	Green
S0	23 Aug 2022	Current Direction	NE

Station	Date	Parameter	Value
S0	23 Aug 2022	Water Temp (C)	18
S0	23 Aug 2022	Wave Height Low (ft)	3
S0	23 Aug 2022	High Tide (ft)	3.84
S0	23 Aug 2022	High Tide Time	857
S0	23 Aug 2022	Low Tide (ft)	0.07
S0	23 Aug 2022	Low Tide Time	223
S0	23 Aug 2022	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-5; 0.5 L/sec flowing from storm drain
S0	30 Aug 2022	Arrive Time	
S0	30 Aug 2022	Weather	Sunny
S0	30 Aug 2022	Wind Speed (kts)	2.8
S0	30 Aug 2022	Wind Dir	N
S0	30 Aug 2022	Animal Life	Seagull-15
S0	30 Aug 2022	Floatables	None
S0	30 Aug 2022	Water Color	Green
S0	30 Aug 2022	Current Direction	N
S0	30 Aug 2022	Water Temp (C)	16
S0	30 Aug 2022	Wave Height Low (ft)	3
S0	30 Aug 2022	High Tide (ft)	4.91
S0	30 Aug 2022	High Tide Time	1136
S0	30 Aug 2022	Low Tide (ft)	0.49
S0	30 Aug 2022	Low Tide Time	523
S0	30 Aug 2022	Comments	Kelp; Algae; 0.5 L/sec water flowing from storm drain
S2	02 Aug 2022	Arrive Time	1123
S2	02 Aug 2022	Weather	Sunny
S2	02 Aug 2022	Wind Speed (kts)	2.5
S2	02 Aug 2022	Wind Dir	N
S2	02 Aug 2022	Animal Life	Bird-15; Dog-1
S2	02 Aug 2022	Floatables	None
S2	02 Aug 2022	Water Color	Green
S2	02 Aug 2022	Current Direction	N
S2	02 Aug 2022	Water Temp (C)	16
S2	02 Aug 2022	Wave Height Low (ft)	3
S2	02 Aug 2022	High Tide (ft)	4.32
S2	02 Aug 2022	High Tide Time	1308
S2	02 Aug 2022	Low Tide (ft)	0.46
S2	02 Aug 2022	Low Tide Time	639
S2	02 Aug 2022	Comments	Kelp; Algae; No water flow from storm drain
S2	09 Aug 2022	Arrive Time	
S2	09 Aug 2022	Weather	Sunny
S2	09 Aug 2022	Wind Speed (kts)	1.9
S2	09 Aug 2022	Wind Dir	S
S2	09 Aug 2022	Animal Life	Dog-5; Seagull-20
S2	09 Aug 2022	Floatables	None
S2	09 Aug 2022	Water Color	Green
S2	09 Aug 2022	Current Direction	S
S2	09 Aug 2022	Water Temp (C)	17
S2	09 Aug 2022	Wave Height Low (ft)	2
S2	09 Aug 2022	High Tide (ft)	3.82
S2	09 Aug 2022	High Tide Time	843
S2	09 Aug 2022	Low Tide (ft)	-0.87
S2	09 Aug 2022	Low Tide Time	215
S2	09 Aug 2022	Comments	Kelp; Algae; No water flow from storm drain
S2	16 Aug 2022	Arrive Time	1608
S2	16 Aug 2022	Weather	Cloudy
S2	16 Aug 2022	Wind Speed (kts)	1.8
S2	16 Aug 2022	Wind Dir	N

Station	Date	Parameter	Value
S2	16 Aug 2022	Animal Life	Seagull-15
S2	16 Aug 2022	Floatables	None
S2	16 Aug 2022	Water Color	Green
S2	16 Aug 2022	Current Direction	N
S2	16 Aug 2022	Water Temp (C)	16
S2	16 Aug 2022	Wave Height Low (ft)	3
S2	16 Aug 2022	High Tide (ft)	4.75
S2	16 Aug 2022	High Tide Time	22
S2	16 Aug 2022	Low Tide (ft)	0.7
S2	16 Aug 2022	Low Tide Time	648
S2	16 Aug 2022	Comments	Kelp; Algae; No water flow from storm drain
S2	23 Aug 2022	Arrive Time	1000
S2	23 Aug 2022	Weather	Foggy
S2	23 Aug 2022	Wind Speed (kts)	1.2
S2	23 Aug 2022	Wind Dir	NE
S2	23 Aug 2022	Animal Life	Bird-10; Dog-4
S2	23 Aug 2022	Floatables	None
S2	23 Aug 2022	Water Color	Green
S2	23 Aug 2022	Current Direction	NE
S2	23 Aug 2022	Water Temp (C)	18
S2	23 Aug 2022	Wave Height Low (ft)	3
S2	23 Aug 2022	High Tide (ft)	3.84
S2	23 Aug 2022	High Tide Time	857
S2	23 Aug 2022	Low Tide (ft)	0.07
S2	23 Aug 2022	Low Tide Time	223
S2	23 Aug 2022	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-10; No water flowing from storm drain
S2	30 Aug 2022	Arrive Time	1655
S2	30 Aug 2022	Weather	Sunny
S2	30 Aug 2022	Wind Speed (kts)	2.4
S2	30 Aug 2022	Wind Dir	N
S2	30 Aug 2022	Animal Life	Seagull-20
S2	30 Aug 2022	Floatables	None
S2	30 Aug 2022	Water Color	Green
S2	30 Aug 2022	Current Direction	N
S2	30 Aug 2022	Water Temp (C)	16
S2	30 Aug 2022	Wave Height Low (ft)	3
S2	30 Aug 2022	High Tide (ft)	4.91
S2	30 Aug 2022	High Tide Time	1136
S2	30 Aug 2022	Low Tide (ft)	0.49
S2	30 Aug 2022	Low Tide Time	523
S2	30 Aug 2022	Comments	Kelp; Algae; No water flow from storm drain
S3	02 Aug 2022	Arrive Time	1118
S3	02 Aug 2022	Weather	Sunny
S3	02 Aug 2022	Wind Speed (kts)	0.8
S3	02 Aug 2022	Wind Dir	N
S3	02 Aug 2022	Animal Life	Bird-10; Dog-2
S3	02 Aug 2022	Floatables	None
S3	02 Aug 2022	Water Color	Green
S3	02 Aug 2022	Current Direction	N
S3	02 Aug 2022	Water Temp (C)	16
S3	02 Aug 2022	Wave Height Low (ft)	3
S3	02 Aug 2022	High Tide (ft)	4.32
S3	02 Aug 2022	High Tide Time	1308
S3	02 Aug 2022	Low Tide (ft)	0.46
S3	02 Aug 2022	Low Tide Time	639
S3	02 Aug 2022	Comments	Kelp; Algae; 0.1 L/sec water flow from storm drain

Station	Date	Parameter	Value
S3	09 Aug 2022	Arrive Time	853
S3	09 Aug 2022	Weather	Sunny
S3	09 Aug 2022	Wind Speed (kts)	1.7
S3	09 Aug 2022	Wind Dir	S
S3	09 Aug 2022	Animal Life	Dog-3; Seagull-20
S3	09 Aug 2022	Floatables	None
S3	09 Aug 2022	Water Color	Green
S3	09 Aug 2022	Current Direction	S
S3	09 Aug 2022	Water Temp (C)	17
S3	09 Aug 2022	Wave Height Low (ft)	2
S3	09 Aug 2022	High Tide (ft)	3.82
S3	09 Aug 2022	High Tide Time	843
S3	09 Aug 2022	Low Tide (ft)	-0.87
S3	09 Aug 2022	Low Tide Time	215
S3	09 Aug 2022	Comments	Kelp; Algae; No water flow from storm drain
S3	16 Aug 2022	Arrive Time	1602
S3	16 Aug 2022	Weather	Cloudy
S3	16 Aug 2022	Wind Speed (kts)	2
S3	16 Aug 2022	Wind Dir	N
S3	16 Aug 2022	Animal Life	Dog-1; Seagull-15
S3	16 Aug 2022	Floatables	None
S3	16 Aug 2022	Water Color	Green
S3	16 Aug 2022	Current Direction	N
S3	16 Aug 2022	Water Temp (C)	16
S3	16 Aug 2022	Wave Height Low (ft)	3
S3	16 Aug 2022	High Tide (ft)	4.75
S3	16 Aug 2022	High Tide Time	22
S3	16 Aug 2022	Low Tide (ft)	0.7
S3	16 Aug 2022	Low Tide Time	648
S3	16 Aug 2022	Comments	Kelp; Algae; Sun Bather-3;No water flow from storm drain
S3	23 Aug 2022	Arrive Time	935
S3	23 Aug 2022	Weather	Foggy
S3	23 Aug 2022	Wind Speed (kts)	1.1
S3	23 Aug 2022	Wind Dir	NE
S3	23 Aug 2022	Animal Life	Bird-20; Dog-3
S3	23 Aug 2022	Floatables	None
S3	23 Aug 2022	Water Color	Green
S3	23 Aug 2022	Current Direction	N
S3	23 Aug 2022	Water Temp (C)	18
S3	23 Aug 2022	Wave Height Low (ft)	3
S3	23 Aug 2022	High Tide (ft)	3.84
S3	23 Aug 2022	High Tide Time	857
S3	23 Aug 2022	Low Tide (ft)	0.07
S3	23 Aug 2022	Low Tide Time	223
S3	23 Aug 2022	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-10; 0.5 L/sec water flowing from storm drain
S3	30 Aug 2022	Arrive Time	1652
S3	30 Aug 2022	Weather	Sunny
S3	30 Aug 2022	Wind Speed (kts)	3.6
S3	30 Aug 2022	Wind Dir	N
S3	30 Aug 2022	Animal Life	Dog-2; Seagull-15
S3	30 Aug 2022	Floatables	None
S3	30 Aug 2022	Water Color	Green
S3	30 Aug 2022	Current Direction	N
S3	30 Aug 2022	Water Temp (C)	16
S3	30 Aug 2022	Wave Height Low (ft)	3
S3	30 Aug 2022	High Tide (ft)	4.91
S3	30 Aug 2022	High Tide Time	1136

Station	Date	Parameter	Value
S3	30 Aug 2022	Low Tide (ft)	0.49
S3	30 Aug 2022	Low Tide Time	523
S3	30 Aug 2022	Comments	Kelp; Algae; 0.1 L/sec water flowing from storm drain
S4	02 Aug 2022	Arrive Time	1010
S4	02 Aug 2022	Weather	Sunny
S4	02 Aug 2022	Wind Speed (kts)	3.8
S4	02 Aug 2022	Wind Dir	W
S4	02 Aug 2022	Animal Life	Bird-6
S4	02 Aug 2022	Floatables	Foam
S4	02 Aug 2022	Water Color	Green
S4	02 Aug 2022	Current Direction	S
S4	02 Aug 2022	Water Temp (C)	19.7
S4	02 Aug 2022	Wave Height Low (ft)	3
S4	02 Aug 2022	High Tide (ft)	4.32
S4	02 Aug 2022	High Tide Time	1308
S4	02 Aug 2022	Low Tide (ft)	0.46
S4	02 Aug 2022	Low Tide Time	639
S4	02 Aug 2022	Comments	Seagrass; Kelp
S4	09 Aug 2022	Arrive Time	1058
S4	09 Aug 2022	Weather	Sunny
S4	09 Aug 2022	Wind Speed (kts)	4.4
S4	09 Aug 2022	Wind Dir	SW
S4	09 Aug 2022	Animal Life	Horse-3
S4	09 Aug 2022	Floatables	None
S4	09 Aug 2022	Water Color	Green
S4	09 Aug 2022	Current Direction	N
S4	09 Aug 2022	Water Temp (C)	20.6
S4	09 Aug 2022	Wave Height Low (ft)	2
S4	09 Aug 2022	High Tide (ft)	3.82
S4	09 Aug 2022	High Tide Time	843
S4	09 Aug 2022	Low Tide (ft)	-0.87
S4	09 Aug 2022	Low Tide Time	215
S4	09 Aug 2022	Comments	Water turbid; Trash-1; Kelp; Seagrass; Debris; Person/Walker/Jogger-3
S4	16 Aug 2022	Arrive Time	954
S4	16 Aug 2022	Weather	Cloudy
S4	16 Aug 2022	Wind Speed (kts)	2.31
S4	16 Aug 2022	Wind Dir	W
S4	16 Aug 2022	Animal Life	Bird-50
S4	16 Aug 2022	Floatables	Foam
S4	16 Aug 2022	Water Color	Green
S4	16 Aug 2022	Current Direction	S
S4	16 Aug 2022	Water Temp (C)	21.5
S4	16 Aug 2022	Wave Height Low (ft)	1
S4	16 Aug 2022	High Tide (ft)	4.75
S4	16 Aug 2022	High Tide Time	22
S4	16 Aug 2022	Low Tide (ft)	0.7
S4	16 Aug 2022	Low Tide Time	648
S4	16 Aug 2022	Comments	Seagrass; Kelp
S4	23 Aug 2022	Arrive Time	1124
S4	23 Aug 2022	Weather	Overcast
S4	23 Aug 2022	Wind Speed (kts)	4.4
S4	23 Aug 2022	Wind Dir	SW
S4	23 Aug 2022	Animal Life	Bird-24; Pelican-2; Seagull-3
S4	23 Aug 2022	Floatables	Foam
S4	23 Aug 2022	Water Color	Green
S4	23 Aug 2022	Current Direction	N

Station	Date	Parameter	Value
S4	23 Aug 2022	Water Temp (C)	20.8
S4	23 Aug 2022	Wave Height Low (ft)	2
S4	23 Aug 2022	High Tide (ft)	3.84
S4	23 Aug 2022	High Tide Time	857
S4	23 Aug 2022	Low Tide (ft)	0.07
S4	23 Aug 2022	Low Tide Time	223
S4	23 Aug 2022	Comments	Kelp; Seagrass; Debris
S4	30 Aug 2022	Arrive Time	1021
S4	30 Aug 2022	Weather	Sunny
S4	30 Aug 2022	Wind Speed (kts)	5.3
S4	30 Aug 2022	Wind Dir	W
S4	30 Aug 2022	Animal Life	Bird-75; Pelican-3; Seagull-5
S4	30 Aug 2022	Floatables	Foam
S4	30 Aug 2022	Water Color	Green
S4	30 Aug 2022	Current Direction	S
S4	30 Aug 2022	Water Temp (C)	16.5
S4	30 Aug 2022	Wave Height Low (ft)	2
S4	30 Aug 2022	High Tide (ft)	4.91
S4	30 Aug 2022	High Tide Time	1136
S4	30 Aug 2022	Low Tide (ft)	0.49
S4	30 Aug 2022	Low Tide Time	523
S4	30 Aug 2022	Comments	Seagrass; Kelp; Debris
S5	02 Aug 2022	Arrive Time	817
S5	02 Aug 2022	Weather	Partly cloudy
S5	02 Aug 2022	Wind Speed (kts)	3.4
S5	02 Aug 2022	Wind Dir	W
S5	02 Aug 2022	Animal Life	Bird-3; Pelican-45; Seagull-28
S5	02 Aug 2022	Floatables	None
S5	02 Aug 2022	Water Color	Colorless
S5	02 Aug 2022	Current Direction	S
S5	02 Aug 2022	Water Temp (C)	24.2
S5	02 Aug 2022	Wave Height Low (ft)	1
S5	02 Aug 2022	High Tide (ft)	4.32
S5	02 Aug 2022	High Tide Time	1308
S5	02 Aug 2022	Low Tide (ft)	0.46
S5	02 Aug 2022	Low Tide Time	639
S5	02 Aug 2022	Comments	Kelp; Seagrass
S5	09 Aug 2022	Arrive Time	926
S5	09 Aug 2022	Weather	Hazy
S5	09 Aug 2022	Wind Speed (kts)	1.9
S5	09 Aug 2022	Wind Dir	W
S5	09 Aug 2022	Animal Life	Bird-1
S5	09 Aug 2022	Floatables	None
S5	09 Aug 2022	Water Color	Green
S5	09 Aug 2022	Current Direction	N
S5	09 Aug 2022	Water Temp (C)	21.1
S5	09 Aug 2022	Wave Height Low (ft)	3
S5	09 Aug 2022	High Tide (ft)	3.82
S5	09 Aug 2022	High Tide Time	843
S5	09 Aug 2022	Low Tide (ft)	-0.87
S5	09 Aug 2022	Low Tide Time	215
S5	09 Aug 2022	Comments	Water turbid; Trash-1; Kelp; Seagrass; Debris; Algae; Person/Walker/Jogger-2
S5	16 Aug 2022	Arrive Time	803
S5	16 Aug 2022	Weather	Hazy
S5	16 Aug 2022	Wind Speed (kts)	0.7
S5	16 Aug 2022	Wind Dir	NW

Station	Date	Parameter	Value
S5	16 Aug 2022	Animal Life	Bird-1; Pelican-4; Seagull-9
S5	16 Aug 2022	Floatables	Foam
S5	16 Aug 2022	Water Color	Green
S5	16 Aug 2022	Current Direction	S
S5	16 Aug 2022	Water Temp (C)	23
S5	16 Aug 2022	Wave Height Low (ft)	1
S5	16 Aug 2022	High Tide (ft)	4.75
S5	16 Aug 2022	High Tide Time	22
S5	16 Aug 2022	Low Tide (ft)	0.7
S5	16 Aug 2022	Low Tide Time	648
S5	16 Aug 2022	Comments	Water turbid; Trash-2; Kelp; Seagrass; Person/Walker/Jogger-3; Sewage-like odor
S5	23 Aug 2022	Arrive Time	958
S5	23 Aug 2022	Weather	Overcast
S5	23 Aug 2022	Wind Speed (kts)	1.7
S5	23 Aug 2022	Wind Dir	W
S5	23 Aug 2022	Animal Life	
S5	23 Aug 2022	Floatables	None
S5	23 Aug 2022	Water Color	Green
S5	23 Aug 2022	Current Direction	N
S5	23 Aug 2022	Water Temp (C)	20.8
S5	23 Aug 2022	Wave Height Low (ft)	2
S5	23 Aug 2022	High Tide (ft)	3.84
S5	23 Aug 2022	High Tide Time	857
S5	23 Aug 2022	Low Tide (ft)	0.07
S5	23 Aug 2022	Low Tide Time	223
S5	23 Aug 2022	Comments	Water clear; Trash-1; Kelp; Seagrass; Algae; Debris; Person/Walker/Jogger-4
S5	30 Aug 2022	Arrive Time	838
S5	30 Aug 2022	Weather	Sunny
S5	30 Aug 2022	Wind Speed (kts)	4
S5	30 Aug 2022	Wind Dir	N
S5	30 Aug 2022	Animal Life	Bird-6; Dog-4; Pelican-1
S5	30 Aug 2022	Floatables	None
S5	30 Aug 2022	Water Color	Green
S5	30 Aug 2022	Current Direction	S
S5	30 Aug 2022	Water Temp (C)	19.7
S5	30 Aug 2022	Wave Height Low (ft)	1
S5	30 Aug 2022	High Tide (ft)	4.91
S5	30 Aug 2022	High Tide Time	1136
S5	30 Aug 2022	Low Tide (ft)	0.49
S5	30 Aug 2022	Low Tide Time	523
S5	30 Aug 2022	Comments	Water clear; Trash-2; Seagrass; Kelp; Person/Walker/Jogger-6
S6	02 Aug 2022	Arrive Time	843
S6	02 Aug 2022	Weather	Sunny
S6	02 Aug 2022	Wind Speed (kts)	3.4
S6	02 Aug 2022	Wind Dir	W
S6	02 Aug 2022	Animal Life	Bird-7; Pelican-1; Seagull-1
S6	02 Aug 2022	Floatables	Foam
S6	02 Aug 2022	Water Color	Green
S6	02 Aug 2022	Current Direction	N
S6	02 Aug 2022	Water Temp (C)	20.9
S6	02 Aug 2022	Wave Height Low (ft)	3
S6	02 Aug 2022	High Tide (ft)	4.32
S6	02 Aug 2022	High Tide Time	1308
S6	02 Aug 2022	Low Tide (ft)	0.46
S6	02 Aug 2022	Low Tide Time	639

Station	Date	Parameter	Value
S6	02 Aug 2022	Comments	Water clear; Trash-1; Seagrass; Kelp; Person/Walker/Jogger-1
S6	09 Aug 2022	Arrive Time	949
S6	09 Aug 2022	Weather	Hazy
S6	09 Aug 2022	Wind Speed (kts)	2.7
S6	09 Aug 2022	Wind Dir	W
S6	09 Aug 2022	Animal Life	
S6	09 Aug 2022	Floatables	None
S6	09 Aug 2022	Water Color	Green
S6	09 Aug 2022	Current Direction	N
S6	09 Aug 2022	Water Temp (C)	20.4
S6	09 Aug 2022	Wave Height Low (ft)	3
S6	09 Aug 2022	High Tide (ft)	3.82
S6	09 Aug 2022	High Tide Time	843
S6	09 Aug 2022	Low Tide (ft)	-0.87
S6	09 Aug 2022	Low Tide Time	215
S6	09 Aug 2022	Comments	Water turbid; Trash-2; Kelp; Seagrass; Algae; Person/Walker/Jogger-2; Sewage-like odor
S6	16 Aug 2022	Arrive Time	831
S6	16 Aug 2022	Weather	Hazy
S6	16 Aug 2022	Wind Speed (kts)	3.1
S6	16 Aug 2022	Wind Dir	W
S6	16 Aug 2022	Animal Life	Bird-16; Seagull-1
S6	16 Aug 2022	Floatables	Foam
S6	16 Aug 2022	Water Color	Green
S6	16 Aug 2022	Current Direction	S
S6	16 Aug 2022	Water Temp (C)	21.4
S6	16 Aug 2022	Wave Height Low (ft)	1
S6	16 Aug 2022	High Tide (ft)	4.75
S6	16 Aug 2022	High Tide Time	22
S6	16 Aug 2022	Low Tide (ft)	0.7
S6	16 Aug 2022	Low Tide Time	648
S6	16 Aug 2022	Comments	Water turbid; Surfer/Paddle boarder-1; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-2; Sewage-like odor
S6	23 Aug 2022	Arrive Time	1017
S6	23 Aug 2022	Weather	Overcast
S6	23 Aug 2022	Wind Speed (kts)	3.3
S6	23 Aug 2022	Wind Dir	W
S6	23 Aug 2022	Animal Life	
S6	23 Aug 2022	Floatables	None
S6	23 Aug 2022	Water Color	Green
S6	23 Aug 2022	Current Direction	N
S6	23 Aug 2022	Water Temp (C)	21
S6	23 Aug 2022	Wave Height Low (ft)	3
S6	23 Aug 2022	High Tide (ft)	3.84
S6	23 Aug 2022	High Tide Time	857
S6	23 Aug 2022	Low Tide (ft)	0.07
S6	23 Aug 2022	Low Tide Time	223
S6	23 Aug 2022	Comments	Water clear; Surfer/Paddle boarder-1; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-2
S6	30 Aug 2022	Arrive Time	901
S6	30 Aug 2022	Weather	Sunny
S6	30 Aug 2022	Wind Speed (kts)	2.7
S6	30 Aug 2022	Wind Dir	N
S6	30 Aug 2022	Animal Life	Bird-4; Dog-2; Seagull-1
S6	30 Aug 2022	Floatables	Foam
S6	30 Aug 2022	Water Color	Green

Station	Date	Parameter	Value
S6	30 Aug 2022	Current Direction	N
S6	30 Aug 2022	Water Temp (C)	15.9
S6	30 Aug 2022	Wave Height Low (ft)	1
S6	30 Aug 2022	High Tide (ft)	4.91
S6	30 Aug 2022	High Tide Time	1136
S6	30 Aug 2022	Low Tide (ft)	0.49
S6	30 Aug 2022	Low Tide Time	523
S6	30 Aug 2022	Comments	Water turbid; Trash-1; Seagrass; Kelp; Person/Walker/Jogger-2
S8	02 Aug 2022	Arrive Time	1104
S8	02 Aug 2022	Weather	Sunny
S8	02 Aug 2022	Wind Speed (kts)	9.9
S8	02 Aug 2022	Wind Dir	W
S8	02 Aug 2022	Animal Life	
S8	02 Aug 2022	Floatables	Foam
S8	02 Aug 2022	Water Color	Green
S8	02 Aug 2022	Current Direction	S
S8	02 Aug 2022	Water Temp (C)	22.5
S8	02 Aug 2022	Wave Height Low (ft)	3
S8	02 Aug 2022	High Tide (ft)	4.32
S8	02 Aug 2022	High Tide Time	1308
S8	02 Aug 2022	Low Tide (ft)	0.46
S8	02 Aug 2022	Low Tide Time	639
S8	02 Aug 2022	Comments	Water clear; Fisherperson-3; Trash-1; Seagrass; Kelp; Person/Walker/Jogger-2
S8	09 Aug 2022	Arrive Time	843
S8	09 Aug 2022	Weather	Hazy
S8	09 Aug 2022	Wind Speed (kts)	1.7
S8	09 Aug 2022	Wind Dir	W
S8	09 Aug 2022	Animal Life	Bird-1
S8	09 Aug 2022	Floatables	None
S8	09 Aug 2022	Water Color	Green
S8	09 Aug 2022	Current Direction	N
S8	09 Aug 2022	Water Temp (C)	20
S8	09 Aug 2022	Wave Height Low (ft)	1
S8	09 Aug 2022	High Tide (ft)	3.82
S8	09 Aug 2022	High Tide Time	843
S8	09 Aug 2022	Low Tide (ft)	-0.87
S8	09 Aug 2022	Low Tide Time	215
S8	09 Aug 2022	Comments	Water clear; Trash-2; Kelp; Seagrass; Debris; Person/Walker/Jogger-8
S8	16 Aug 2022	Arrive Time	1102
S8	16 Aug 2022	Weather	Sunny
S8	16 Aug 2022	Wind Speed (kts)	7.1
S8	16 Aug 2022	Wind Dir	NW
S8	16 Aug 2022	Animal Life	Bird-4; Seagull-15
S8	16 Aug 2022	Floatables	Foam
S8	16 Aug 2022	Water Color	Green
S8	16 Aug 2022	Current Direction	S
S8	16 Aug 2022	Water Temp (C)	23
S8	16 Aug 2022	Wave Height Low (ft)	1
S8	16 Aug 2022	High Tide (ft)	4.75
S8	16 Aug 2022	High Tide Time	22
S8	16 Aug 2022	Low Tide (ft)	0.7
S8	16 Aug 2022	Low Tide Time	648
S8	16 Aug 2022	Comments	Water turbid; Trash-1; Seagrass; Kelp; Person/Walker/Jogger-3

Station	Date	Parameter	Value
S8	23 Aug 2022	Arrive Time	909
S8	23 Aug 2022	Weather	Overcast
S8	23 Aug 2022	Wind Speed (kts)	1.7
S8	23 Aug 2022	Wind Dir	W
S8	23 Aug 2022	Animal Life	Bird-2; Seagull-8
S8	23 Aug 2022	Floatables	None
S8	23 Aug 2022	Water Color	Green
S8	23 Aug 2022	Current Direction	N
S8	23 Aug 2022	Water Temp (C)	22.1
S8	23 Aug 2022	Wave Height Low (ft)	2
S8	23 Aug 2022	High Tide (ft)	3.84
S8	23 Aug 2022	High Tide Time	857
S8	23 Aug 2022	Low Tide (ft)	0.07
S8	23 Aug 2022	Low Tide Time	223
S8	23 Aug 2022	Comments	Water clear; Fisherman-1; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-4; Sewage-like odor
S8	30 Aug 2022	Arrive Time	1107
S8	30 Aug 2022	Weather	Sunny
S8	30 Aug 2022	Wind Speed (kts)	10
S8	30 Aug 2022	Wind Dir	NW
S8	30 Aug 2022	Animal Life	Seagull-1
S8	30 Aug 2022	Floatables	Foam
S8	30 Aug 2022	Water Color	Green
S8	30 Aug 2022	Current Direction	S
S8	30 Aug 2022	Water Temp (C)	20
S8	30 Aug 2022	Wave Height Low (ft)	1
S8	30 Aug 2022	High Tide (ft)	4.91
S8	30 Aug 2022	High Tide Time	1136
S8	30 Aug 2022	Low Tide (ft)	0.49
S8	30 Aug 2022	Low Tide Time	523
S8	30 Aug 2022	Comments	Water turbid; Trash-1; Seagrass; Kelp; Person/Walker/Jogger-7
S9	02 Aug 2022	Arrive Time	1130
S9	02 Aug 2022	Weather	Sunny
S9	02 Aug 2022	Wind Speed (kts)	8.9
S9	02 Aug 2022	Wind Dir	NW
S9	02 Aug 2022	Animal Life	Seagull-1
S9	02 Aug 2022	Floatables	Foam
S9	02 Aug 2022	Water Color	Green
S9	02 Aug 2022	Current Direction	S
S9	02 Aug 2022	Water Temp (C)	25.5
S9	02 Aug 2022	Wave Height Low (ft)	1
S9	02 Aug 2022	High Tide (ft)	4.32
S9	02 Aug 2022	High Tide Time	1308
S9	02 Aug 2022	Low Tide (ft)	0.46
S9	02 Aug 2022	Low Tide Time	639
S9	02 Aug 2022	Comments	Water turbid; Surfer/Paddle boarder-10; Trash-1; Seagrass; Kelp; Person/Walker/Jogger-14
S9	09 Aug 2022	Arrive Time	817
S9	09 Aug 2022	Weather	Foggy
S9	09 Aug 2022	Wind Speed (kts)	1.1
S9	09 Aug 2022	Wind Dir	SW
S9	09 Aug 2022	Animal Life	Seagull-1
S9	09 Aug 2022	Floatables	None
S9	09 Aug 2022	Water Color	Green
S9	09 Aug 2022	Current Direction	N
S9	09 Aug 2022	Water Temp (C)	21.8
S9	09 Aug 2022	Wave Height Low (ft)	1

Station	Date	Parameter	Value
S9	09 Aug 2022	High Tide (ft)	3.82
S9	09 Aug 2022	High Tide Time	843
S9	09 Aug 2022	Low Tide (ft)	-0.87
S9	09 Aug 2022	Low Tide Time	215
S9	09 Aug 2022	Comments	Water clear; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-8
S9	16 Aug 2022	Arrive Time	1132
S9	16 Aug 2022	Weather	Sunny
S9	16 Aug 2022	Wind Speed (kts)	6.8
S9	16 Aug 2022	Wind Dir	NW
S9	16 Aug 2022	Animal Life	Seagull-1
S9	16 Aug 2022	Floatables	Foam
S9	16 Aug 2022	Water Color	Green
S9	16 Aug 2022	Current Direction	S
S9	16 Aug 2022	Water Temp (C)	24
S9	16 Aug 2022	Wave Height Low (ft)	1
S9	16 Aug 2022	High Tide (ft)	4.75
S9	16 Aug 2022	High Tide Time	22
S9	16 Aug 2022	Low Tide (ft)	0.7
S9	16 Aug 2022	Low Tide Time	648
S9	16 Aug 2022	Comments	Water turbid; Boogie boarder/Swimmer-10; Surfer/Paddle boarder-6; Trash-1; Seagrass; Kelp; Person/Walker/Jogger-19
S9	23 Aug 2022	Arrive Time	845
S9	23 Aug 2022	Weather	Overcast
S9	23 Aug 2022	Wind Speed (kts)	1.9
S9	23 Aug 2022	Wind Dir	SW
S9	23 Aug 2022	Animal Life	Dolphin-2
S9	23 Aug 2022	Floatables	None
S9	23 Aug 2022	Water Color	Green
S9	23 Aug 2022	Current Direction	N
S9	23 Aug 2022	Water Temp (C)	21.6
S9	23 Aug 2022	Wave Height Low (ft)	1
S9	23 Aug 2022	High Tide (ft)	3.84
S9	23 Aug 2022	High Tide Time	857
S9	23 Aug 2022	Low Tide (ft)	0.07
S9	23 Aug 2022	Low Tide Time	223
S9	23 Aug 2022	Comments	Water clear; Surfer/Paddle boarder-2; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-6
S9	30 Aug 2022	Arrive Time	1133
S9	30 Aug 2022	Weather	Sunny
S9	30 Aug 2022	Wind Speed (kts)	11.5
S9	30 Aug 2022	Wind Dir	N
S9	30 Aug 2022	Animal Life	Seagull-3
S9	30 Aug 2022	Floatables	Foam
S9	30 Aug 2022	Water Color	Green
S9	30 Aug 2022	Current Direction	S
S9	30 Aug 2022	Water Temp (C)	21.1
S9	30 Aug 2022	Wave Height Low (ft)	1
S9	30 Aug 2022	High Tide (ft)	4.91
S9	30 Aug 2022	High Tide Time	1136
S9	30 Aug 2022	Low Tide (ft)	0.49
S9	30 Aug 2022	Low Tide Time	523
S9	30 Aug 2022	Comments	Water turbid; Surfer/Paddle boarder-2; Trash-1; Seagrass; Kelp; Person/Walker/Jogger-9
S10	02 Aug 2022	Arrive Time	958
S10	02 Aug 2022	Weather	Sunny

Station	Date	Parameter	Value
S10	02 Aug 2022	Wind Speed (kts)	5.2
S10	02 Aug 2022	Wind Dir	W
S10	02 Aug 2022	Animal Life	Bird-2
S10	02 Aug 2022	Floatables	Foam
S10	02 Aug 2022	Water Color	Green
S10	02 Aug 2022	Current Direction	S
S10	02 Aug 2022	Water Temp (C)	21
S10	02 Aug 2022	Wave Height Low (ft)	2
S10	02 Aug 2022	High Tide (ft)	4.32
S10	02 Aug 2022	High Tide Time	1308
S10	02 Aug 2022	Low Tide (ft)	0.46
S10	02 Aug 2022	Low Tide Time	639
S10	02 Aug 2022	Comments	Seagrass; Kelp; Debris
S10	09 Aug 2022	Arrive Time	1104
S10	09 Aug 2022	Weather	Sunny
S10	09 Aug 2022	Wind Speed (kts)	4.2
S10	09 Aug 2022	Wind Dir	SW
S10	09 Aug 2022	Animal Life	Bird-3
S10	09 Aug 2022	Floatables	None
S10	09 Aug 2022	Water Color	Green
S10	09 Aug 2022	Current Direction	N
S10	09 Aug 2022	Water Temp (C)	19.5
S10	09 Aug 2022	Wave Height Low (ft)	2
S10	09 Aug 2022	High Tide (ft)	3.82
S10	09 Aug 2022	High Tide Time	843
S10	09 Aug 2022	Low Tide (ft)	-0.87
S10	09 Aug 2022	Low Tide Time	215
S10	09 Aug 2022	Comments	Kelp; Seagrass; Algae
S10	16 Aug 2022	Arrive Time	939
S10	16 Aug 2022	Weather	Partly cloudy
S10	16 Aug 2022	Wind Speed (kts)	4.4
S10	16 Aug 2022	Wind Dir	W
S10	16 Aug 2022	Animal Life	Bird-1
S10	16 Aug 2022	Floatables	Foam
S10	16 Aug 2022	Water Color	Green
S10	16 Aug 2022	Current Direction	S
S10	16 Aug 2022	Water Temp (C)	21.5
S10	16 Aug 2022	Wave Height Low (ft)	2
S10	16 Aug 2022	High Tide (ft)	4.75
S10	16 Aug 2022	High Tide Time	22
S10	16 Aug 2022	Low Tide (ft)	0.7
S10	16 Aug 2022	Low Tide Time	648
S10	16 Aug 2022	Comments	Water clear; Trash-3; Kelp; Seagrass; Person/Walker/Jogger-2
S10	23 Aug 2022	Arrive Time	1134
S10	23 Aug 2022	Weather	Overcast
S10	23 Aug 2022	Wind Speed (kts)	5.6
S10	23 Aug 2022	Wind Dir	SW
S10	23 Aug 2022	Animal Life	Pelican-3
S10	23 Aug 2022	Floatables	Foam
S10	23 Aug 2022	Water Color	Green
S10	23 Aug 2022	Current Direction	N
S10	23 Aug 2022	Water Temp (C)	21.3
S10	23 Aug 2022	Wave Height Low (ft)	3
S10	23 Aug 2022	High Tide (ft)	3.84
S10	23 Aug 2022	High Tide Time	857
S10	23 Aug 2022	Low Tide (ft)	0.07
S10	23 Aug 2022	Low Tide Time	223

Station	Date	Parameter	Value
S10	23 Aug 2022	Comments	Kelp; Seagrass
S10	30 Aug 2022	Arrive Time	1011
S10	30 Aug 2022	Weather	Sunny
S10	30 Aug 2022	Wind Speed (kts)	5.6
S10	30 Aug 2022	Wind Dir	W
S10	30 Aug 2022	Animal Life	Bird-2; Dolphin-2
S10	30 Aug 2022	Floatables	Foam
S10	30 Aug 2022	Water Color	Green
S10	30 Aug 2022	Current Direction	S
S10	30 Aug 2022	Water Temp (C)	19
S10	30 Aug 2022	Wave Height Low (ft)	1
S10	30 Aug 2022	High Tide (ft)	4.91
S10	30 Aug 2022	High Tide Time	1136
S10	30 Aug 2022	Low Tide (ft)	0.49
S10	30 Aug 2022	Low Tide Time	523
S10	30 Aug 2022	Comments	Seagrass; Kelp; Debris
S11	02 Aug 2022	Arrive Time	832
S11	02 Aug 2022	Weather	Sunny
S11	02 Aug 2022	Wind Speed (kts)	3.4
S11	02 Aug 2022	Wind Dir	W
S11	02 Aug 2022	Animal Life	Bird-6; Dog-1
S11	02 Aug 2022	Floatables	Foam
S11	02 Aug 2022	Water Color	Green
S11	02 Aug 2022	Current Direction	S
S11	02 Aug 2022	Water Temp (C)	21.9
S11	02 Aug 2022	Wave Height Low (ft)	1
S11	02 Aug 2022	High Tide (ft)	4.32
S11	02 Aug 2022	High Tide Time	1308
S11	02 Aug 2022	Low Tide (ft)	0.46
S11	02 Aug 2022	Low Tide Time	639
S11	02 Aug 2022	Comments	Water clear; Trash-1; Seagrass; Kelp; Person/Walker/Jogger-4
S11	09 Aug 2022	Arrive Time	939
S11	09 Aug 2022	Weather	Hazy
S11	09 Aug 2022	Wind Speed (kts)	2.7
S11	09 Aug 2022	Wind Dir	W
S11	09 Aug 2022	Animal Life	Bird-2
S11	09 Aug 2022	Floatables	None
S11	09 Aug 2022	Water Color	Green
S11	09 Aug 2022	Current Direction	N
S11	09 Aug 2022	Water Temp (C)	20.1
S11	09 Aug 2022	Wave Height Low (ft)	3
S11	09 Aug 2022	High Tide (ft)	3.82
S11	09 Aug 2022	High Tide Time	843
S11	09 Aug 2022	Low Tide (ft)	-0.87
S11	09 Aug 2022	Low Tide Time	215
S11	09 Aug 2022	Comments	Water turbid; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-3; Sewage-like odor
S11	16 Aug 2022	Arrive Time	818
S11	16 Aug 2022	Weather	Hazy
S11	16 Aug 2022	Wind Speed (kts)	1.9
S11	16 Aug 2022	Wind Dir	W
S11	16 Aug 2022	Animal Life	Bird-30
S11	16 Aug 2022	Floatables	Foam
S11	16 Aug 2022	Water Color	Green
S11	16 Aug 2022	Current Direction	S
S11	16 Aug 2022	Water Temp (C)	22.5

Station	Date	Parameter	Value
S11	16 Aug 2022	Wave Height Low (ft)	2
S11	16 Aug 2022	High Tide (ft)	4.75
S11	16 Aug 2022	High Tide Time	22
S11	16 Aug 2022	Low Tide (ft)	0.7
S11	16 Aug 2022	Low Tide Time	648
S11	16 Aug 2022	Comments	Water turbid; Trash-1; Kelp; Seagrass; Debris; Person/Walker/Jogger-2; Sewage-like odor
S11	23 Aug 2022	Arrive Time	1010
S11	23 Aug 2022	Weather	Overcast
S11	23 Aug 2022	Wind Speed (kts)	0.9
S11	23 Aug 2022	Wind Dir	W
S11	23 Aug 2022	Animal Life	Bird-4
S11	23 Aug 2022	Floatables	None
S11	23 Aug 2022	Water Color	Green
S11	23 Aug 2022	Current Direction	N
S11	23 Aug 2022	Water Temp (C)	21.2
S11	23 Aug 2022	Wave Height Low (ft)	2
S11	23 Aug 2022	High Tide (ft)	3.84
S11	23 Aug 2022	High Tide Time	857
S11	23 Aug 2022	Low Tide (ft)	0.07
S11	23 Aug 2022	Low Tide Time	223
S11	23 Aug 2022	Comments	Water turbid; Trash-1; Kelp; Seagrass; Algae; Debris; Person/Walker/Jogger-1
S11	30 Aug 2022	Arrive Time	850
S11	30 Aug 2022	Weather	Sunny
S11	30 Aug 2022	Wind Speed (kts)	2.6
S11	30 Aug 2022	Wind Dir	N
S11	30 Aug 2022	Animal Life	Bird-11; Dog-3; Pelican-3
S11	30 Aug 2022	Floatables	Foam
S11	30 Aug 2022	Water Color	Green
S11	30 Aug 2022	Current Direction	S
S11	30 Aug 2022	Water Temp (C)	18.7
S11	30 Aug 2022	Wave Height Low (ft)	2
S11	30 Aug 2022	High Tide (ft)	4.91
S11	30 Aug 2022	High Tide Time	1136
S11	30 Aug 2022	Low Tide (ft)	0.49
S11	30 Aug 2022	Low Tide Time	523
S11	30 Aug 2022	Comments	Water turbid; Trash-2; Seagrass; Kelp; Debris; Person/Walker/Jogger-2
S12	02 Aug 2022	Arrive Time	909
S12	02 Aug 2022	Weather	Sunny
S12	02 Aug 2022	Wind Speed (kts)	4.6
S12	02 Aug 2022	Wind Dir	W
S12	02 Aug 2022	Animal Life	Dog-2
S12	02 Aug 2022	Floatables	None
S12	02 Aug 2022	Water Color	Green
S12	02 Aug 2022	Current Direction	N
S12	02 Aug 2022	Water Temp (C)	22.4
S12	02 Aug 2022	Wave Height Low (ft)	2
S12	02 Aug 2022	High Tide (ft)	4.32
S12	02 Aug 2022	High Tide Time	1308
S12	02 Aug 2022	Low Tide (ft)	0.46
S12	02 Aug 2022	Low Tide Time	639
S12	02 Aug 2022	Comments	Water clear; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-2
S12	09 Aug 2022	Arrive Time	902
S12	09 Aug 2022	Weather	Foggy

Station	Date	Parameter	Value
S12	09 Aug 2022	Wind Speed (kts)	2.1
S12	09 Aug 2022	Wind Dir	SW
S12	09 Aug 2022	Animal Life	Bird-21; Dog-2
S12	09 Aug 2022	Floatables	Foam
S12	09 Aug 2022	Water Color	Green
S12	09 Aug 2022	Current Direction	N
S12	09 Aug 2022	Water Temp (C)	18
S12	09 Aug 2022	Wave Height Low (ft)	2
S12	09 Aug 2022	High Tide (ft)	3.82
S12	09 Aug 2022	High Tide Time	843
S12	09 Aug 2022	Low Tide (ft)	-0.87
S12	09 Aug 2022	Low Tide Time	215
S12	09 Aug 2022	Comments	Water turbid; Trash-1; Kelp; Seagrass; Debris; Person/Walker/Jogger-3; Sewage-like odor
S12	16 Aug 2022	Arrive Time	854
S12	16 Aug 2022	Weather	Sunny
S12	16 Aug 2022	Wind Speed (kts)	2.3
S12	16 Aug 2022	Wind Dir	W
S12	16 Aug 2022	Animal Life	Bird-4; Pelican-2
S12	16 Aug 2022	Floatables	Foam
S12	16 Aug 2022	Water Color	Green
S12	16 Aug 2022	Current Direction	S
S12	16 Aug 2022	Water Temp (C)	21.2
S12	16 Aug 2022	Wave Height Low (ft)	1
S12	16 Aug 2022	High Tide (ft)	4.75
S12	16 Aug 2022	High Tide Time	22
S12	16 Aug 2022	Low Tide (ft)	0.7
S12	16 Aug 2022	Low Tide Time	648
S12	16 Aug 2022	Comments	Water clear; Trash-2; Seagrass; Kelp; Person/Walker/Jogger-1
S12	23 Aug 2022	Arrive Time	926
S12	23 Aug 2022	Weather	Overcast
S12	23 Aug 2022	Wind Speed (kts)	3.6
S12	23 Aug 2022	Wind Dir	SW
S12	23 Aug 2022	Animal Life	Bird-5; Dog-1
S12	23 Aug 2022	Floatables	None
S12	23 Aug 2022	Water Color	Green
S12	23 Aug 2022	Current Direction	N
S12	23 Aug 2022	Water Temp (C)	19.8
S12	23 Aug 2022	Wave Height Low (ft)	2
S12	23 Aug 2022	High Tide (ft)	3.84
S12	23 Aug 2022	High Tide Time	857
S12	23 Aug 2022	Low Tide (ft)	0.07
S12	23 Aug 2022	Low Tide Time	223
S12	23 Aug 2022	Comments	Water clear; Trash-1; Kelp; Seagrass; Debris; Algae; Person/Walker/Jogger-7
S12	30 Aug 2022	Arrive Time	920
S12	30 Aug 2022	Weather	Sunny
S12	30 Aug 2022	Wind Speed (kts)	1.1
S12	30 Aug 2022	Wind Dir	W
S12	30 Aug 2022	Animal Life	Bird-1
S12	30 Aug 2022	Floatables	Foam
S12	30 Aug 2022	Water Color	Green
S12	30 Aug 2022	Current Direction	N
S12	30 Aug 2022	Water Temp (C)	20.2
S12	30 Aug 2022	Wave Height Low (ft)	1
S12	30 Aug 2022	High Tide (ft)	4.91
S12	30 Aug 2022	High Tide Time	1136

Station	Date	Parameter	Value
S12	30 Aug 2022	Low Tide (ft)	0.49
S12	30 Aug 2022	Low Tide Time	523
S12	30 Aug 2022	Comments	Water turbid; Trash-1; Seagrass; Kelp; Person/Walker/Jogger-1



# Kelp Stations



**Table 3.1**

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 2022	13	4	4	4	3	3	5
02 Aug 2022	15	5	4	3	3	3	6
03 Aug 2022	15	5	4	3	3	3	6
04 Aug 2022	24	6	5	4	3	3	7
05 Aug 2022	24	8	5	4	3	3	7
06 Aug 2022	24	8	5	4	3	3	7
07 Aug 2022	24	8	5	4	3	3	7
08 Aug 2022	34	15	12	3	3	3	22
09 Aug 2022	34	15	12	3	3	3	22
10 Aug 2022	51	18	19	4	3	2	36
11 Aug 2022	51	18	19	4	3	2	36
12 Aug 2022	51	18	19	4	3	2	36
13 Aug 2022	51	18	19	4	3	2	36
14 Aug 2022	51	18	19	4	3	2	36
15 Aug 2022	27	12	12	3	3	2	20
16 Aug 2022	27	12	12	3	3	2	20
17 Aug 2022	27	12	12	3	3	2	20
18 Aug 2022	27	12	12	3	3	2	20
19 Aug 2022	11	9	10	2	2	2	17
20 Aug 2022	11	9	10	2	2	2	17
21 Aug 2022	11	9	10	2	2	2	17
22 Aug 2022	11	9	10	2	2	2	17
23 Aug 2022	8	7	7	2	2	2	14
24 Aug 2022	11	9	10	2	2	2	22
25 Aug 2022	11	9	10	2	2	2	22
26 Aug 2022	11	9	10	2	2	2	22
27 Aug 2022	11	9	10	2	2	2	22
28 Aug 2022	11	9	10	2	2	2	22
29 Aug 2022	11	9	10	2	2	2	22
30 Aug 2022	8	7	7	2	2	2	14
31 Aug 2022	8	7	7	2	2	2	14

\* Geometric mean calculated using n<5

**Table 3.2**

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
02 Aug 2022	IC	IC	IC	IC	IC	IC	IC
08 Aug 2022	IC	<b>E</b>	<b>E</b>	IC	IC	IC	<b>E</b>
15 Aug 2022	IC	IC	IC	IC	IC	IC	IC
23 Aug 2022	IC	IC	IC	IC	IC	IC	IC
30 Aug 2022	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 3.3**

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

Date	I19	I24	I25	I26	I32	I39	I40
01 Aug 2022	11	4	4	3	3	3	5
02 Aug 2022	17	5	6	3	3	3	8
03 Aug 2022	17	5	6	3	3	3	8
04 Aug 2022	17	5	6	3	3	3	8
05 Aug 2022	17	5	6	3	3	3	8
06 Aug 2022	17	5	6	3	3	3	8
07 Aug 2022	17	5	6	3	3	3	8
08 Aug 2022	18	6	7	3	3	3	12
09 Aug 2022	15	6	8	3	3	2	12
10 Aug 2022	15	6	8	3	3	2	12
11 Aug 2022	15	6	8	3	3	2	12
12 Aug 2022	15	6	8	3	3	2	12
13 Aug 2022	15	6	8	3	3	2	12
14 Aug 2022	15	6	8	3	3	2	12
15 Aug 2022	12	5	6	3	3	2	10
16 Aug 2022	15	6	8	3	3	2	12
17 Aug 2022	15	7	8	3	3	2	12
18 Aug 2022	15	7	8	3	3	2	12
19 Aug 2022	15	7	8	3	3	2	12
20 Aug 2022	15	7	8	3	3	2	12
21 Aug 2022	15	7	8	3	3	2	12
22 Aug 2022	20	8	10	3	3	2	18
23 Aug 2022	13	7	8	3	3	2	12
24 Aug 2022	13	7	8	3	3	2	12
25 Aug 2022	13	7	8	3	3	2	12
26 Aug 2022	13	7	8	3	3	2	12
27 Aug 2022	13	7	8	3	3	2	12
28 Aug 2022	13	7	8	3	3	2	12
29 Aug 2022	13	7	8	3	3	2	12
30 Aug 2022	10	6	6	3	3	2	10
31 Aug 2022	5	4	5	2	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 Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

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

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBCO kelp stations. Data are based on the median of the five most recent samples from each site and depth over the previous 30 days unless otherwise noted (\*). Values >70 CFU/100 mL exceed the standard. Median calculated using  $n < 5$

		I40																							
		I39						I38																	
Date	2m	I19	6m	11m	2m	I24	6m	11m	2m	I25	6m	9m	2m	I26	6m	9m	2m	I32	6m	9m	2m	I38	6m	9m	
01 Aug 2022	20	20	40	4	21	71	2	11	51	2	11	20	20	20	20	8	2	6	2	6	2	20	20	11	
02 Aug 2022	20	20	60	6	40	140	2	20	100	2	20	8	20	20	20	6	2	6	2	6	2	20	20	20	
03 Aug 2022	20	20	60	6	40	140	4	20	100	2	20	14	11	12	13	2	10	3	60	70	80	80	80	20	
04 Aug 2022	20	30	80	13	40	140	4	50	120	2	20	14	11	12	13	2	10	3	60	70	80	80	80	20	
05 Aug 2022	20	30	80	13	60	140	4	50	120	2	20	14	11	12	13	2	10	3	60	70	80	80	80	20	
06 Aug 2022	20	30	80	13	60	140	4	50	120	2	20	14	11	12	13	2	10	3	60	70	80	80	80	20	
07 Aug 2022	20	30	80	13	60	140	4	50	120	2	20	14	11	12	13	2	10	3	60	70	80	80	80	20	
08 Aug 2022	20	40	100	20	80	140	6	80	140	2	20	20	20	20	20	2	6	2	100	120	140	140	140	20	
09 Aug 2022	20	40	100	20	80	140	6	80	140	2	20	20	20	20	20	2	6	2	100	120	140	140	140	20	
10 Aug 2022	20	80	80	13	90	90	200	4	120	190	2	20	34	11	12	13	2	5	2	200	200	270	270	270	20
11 Aug 2022	20	80	80	13	90	90	200	4	120	190	2	20	34	11	12	13	2	5	2	200	200	270	270	270	20
12 Aug 2022	20	80	80	13	90	90	200	4	120	190	2	20	34	11	12	13	2	5	2	200	200	270	270	270	20
13 Aug 2022	20	80	80	13	90	90	200	4	120	190	2	20	34	11	12	13	2	5	2	200	200	270	270	270	20
14 Aug 2022	20	80	80	13	90	90	200	4	120	190	2	20	34	11	12	13	2	5	2	200	200	270	270	270	20
15 Aug 2022	20	40	100	6	80	140	2	80	140	2	20	8	20	20	6	2	4	2	100	120	140	140	140	20	
16 Aug 2022	20	40	100	6	80	140	2	80	140	2	20	8	20	20	6	2	4	2	100	120	140	140	140	20	
17 Aug 2022	20	40	100	6	80	140	2	80	140	2	20	8	20	20	6	2	4	2	100	120	140	140	140	20	
18 Aug 2022	20	40	100	6	80	140	2	80	140	2	20	8	20	20	6	2	4	2	100	120	140	140	140	20	
19 Aug 2022	17	80	60	11	51	71	4	87	71	2	13	5	11	12	4	2	3	2	51	62	71	71	71	20	
20 Aug 2022	17	80	60	11	51	71	4	87	71	2	13	5	11	12	4	2	3	2	51	62	71	71	71	20	
21 Aug 2022	17	80	60	11	51	71	4	87	71	2	13	5	11	12	4	2	3	2	51	62	71	71	71	20	
22 Aug 2022	17	80	60	11	51	71	4	87	71	2	13	5	11	12	4	2	3	2	51	62	71	71	71	20	
23 Aug 2022	20	40	20	2	8	2	14	8	2	14	8	2	6	2	4	2	2	2	20	20	30	30	30	20	
24 Aug 2022	17	70	60	11	51	74	4	87	74	2	13	5	11	12	4	2	3	2	60	66	85	85	85	20	
25 Aug 2022	17	70	60	11	51	74	4	87	74	2	13	5	11	12	4	2	3	2	60	66	85	85	85	20	
26 Aug 2022	17	70	60	11	51	74	4	87	74	2	13	5	11	12	4	2	3	2	60	66	85	85	85	20	
27 Aug 2022	17	70	60	11	51	74	4	87	74	2	13	5	11	12	4	2	3	2	60	66	85	85	85	20	
28 Aug 2022	17	70	60	11	51	74	4	87	74	2	13	5	11	12	4	2	3	2	60	66	85	85	85	20	
29 Aug 2022	17	70	60	11	51	74	4	87	74	2	13	5	11	12	4	2	3	2	60	66	85	85	85	20	
30 Aug 2022	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	2	8	2	20	20	20	20	20	20	
31 Aug 2022	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	2	8	2	20	20	20	20	20	20	

**Table 3.6**

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold Value for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per station by depth, per month.

Date	I19			I24			I25			I26			I32			I39			I40		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
August	E	E	E	IC	E	E	E	E	E	IC	IC	IC	IC	IC	IC	IC	IC	E	E	E	

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 3.7**

Summary of water quality parameters at the SBOO kelp stations for each sample date. Densities of total coliform (Total), fecal coliform (Fecal), and *Enterococcus* (Entero) bacteria are reported as CFU/100 mL; 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	Temp	XMS	DO	Sal	pH
I19	02 Aug 2022	1056	2	14e	2e	20e	17.5	65.98	8.8	33.43	8.2
I19	02 Aug 2022	1056	6	120e	26e	40	15.6	64.29	7.6	33.43	8.1
I19	02 Aug 2022	1056	11	100e	46	52	15.2	58.30	7.2	33.43	8.0
I19	08 Aug 2022	1046	2	1800e	160e	28e	16.4	68.18	7.8	33.42	8.1
I19	08 Aug 2022	1046	6	640	120e	20e	16.0	62.70	7.8	33.43	8.1
I19	08 Aug 2022	1046	11	260e	100e	22e	13.4	62.15	6.1	33.43	8.0
I19	15 Aug 2022	1055	2	<2	<2	<2	18.2	72.81	7.8	33.45	8.1
I19	15 Aug 2022	1055	6	<2	<2	<2	14.8	78.57	7.3	33.44	8.0
I19	15 Aug 2022	1055	11	2e	<2	<2	13.8	60.80	6.1	33.43	7.9
I19	23 Aug 2022	1125	2	<20	<2	<2	19.9	70.51	8.3	33.53	8.2
I19	23 Aug 2022	1125	6	<20	2e	<2	17.7	56.00	6.3	33.42	8.0
I19	23 Aug 2022	1125	11	20e	4e	2e	14.3	62.75	5.1	33.42	7.8
I19	30 Aug 2022	1034	2	<20	<2	<2	15.5	67.66	7.1	33.43	8.1
I19	30 Aug 2022	1034	6	<20	<2	<2	14.3	75.34	5.8	33.42	7.9
I19	30 Aug 2022	1034	11	2e	<2	<2	13.9	77.32	6.0	33.42	7.9
I24	02 Aug 2022	1120	2	<20	6e	<2	17.3	67.67	8.3	33.40	8.2
I24	02 Aug 2022	1120	6	100e	10e	10e	14.9	70.29	7.6	33.42	8.1
I24	02 Aug 2022	1120	11	140e	8e	26e	14.4	68.66	6.3	33.45	7.9
I24	08 Aug 2022	1109	2	60e	6e	<2	16.8	71.93	8.4	33.44	8.1
I24	08 Aug 2022	1109	6	6200	720	74	14.5	62.33	6.2	33.43	8.0
I24	08 Aug 2022	1109	11	260e	20e	6e	13.7	70.18	4.7	33.44	7.8
I24	15 Aug 2022	1117	2	<2	<2	<2	19.4	68.57	8.5	33.50	8.2
I24	15 Aug 2022	1117	6	<2	<2	2e	16.0	78.92	6.9	33.47	8.0
I24	15 Aug 2022	1117	11	2e	<2	<2	13.6	62.84	5.8	33.43	7.9
I24	23 Aug 2022	1150	2	<2	<2	<2	20.2	77.88	7.8	33.51	8.2
I24	23 Aug 2022	1150	6	2e	<2	<2	15.0	77.59	7.4	33.41	8.0
I24	23 Aug 2022	1150	11	8e	<2	<2	14.2	74.56	4.4	33.43	7.8
I24	30 Aug 2022	1056	2	<20	<2	<2	16.7	78.51	6.2	33.47	8.0
I24	30 Aug 2022	1056	6	<2	<2	2e	14.6	80.62	7.0	33.41	8.0
I24	30 Aug 2022	1056	11	2e	<2	<2	14.3	82.65	6.9	33.42	8.0
I25	02 Aug 2022	1127	2	6e	2e	2e	17.8	66.14	8.0	33.42	8.2
I25	02 Aug 2022	1127	6	160e	4e	42	14.8	70.86	7.6	33.41	8.1
I25	02 Aug 2022	1127	9	140e	16e	20e	14.5	69.33	6.4	33.44	8.0
I25	08 Aug 2022	1117	2	300e	24e	8e	16.5	78.50	8.0	33.45	8.1
I25	08 Aug 2022	1117	6	4000	1100	80e	15.2	66.39	6.5	33.38	8.0
I25	08 Aug 2022	1117	9	1000	80e	26e	13.6	73.55	5.1	33.43	7.8
I25	15 Aug 2022	1125	2	<2	<2	<2	19.2	78.59	8.2	33.50	8.1
I25	15 Aug 2022	1125	6	14e	<2	2e	15.6	73.52	7.1	33.48	8.0
I25	15 Aug 2022	1125	9	<2	<2	<2	14.3	79.13	6.7	33.45	8.0

Station	Date	Time	Depth	Total	Fecal	Enteric	Temp	XMS	DO	Sal	pH
I25	23 Aug 2022	1200	2	<2	<2	<2	21.0	80.74	7.8	33.54	8.2
I25	23 Aug 2022	1200	6	12e	<2	<2	15.8	80.93	7.2	33.38	8.1
I25	23 Aug 2022	1200	9	8e	2e	<2	14.9	77.16	5.4	33.42	7.8
I25	30 Aug 2022	1103	2	<2	<2	<2	17.2	64.11	7.0	33.44	8.1
I25	30 Aug 2022	1103	6	<20	<2	<2	13.9	81.83	6.5	33.41	8.0
I25	30 Aug 2022	1103	9	<2	<2	<2	13.7	83.98	6.2	33.41	7.9
I26	02 Aug 2022	1136	2	2e	<2	<2	18.8	64.17	8.1	33.45	8.2
I26	02 Aug 2022	1136	6	20e	2e	<2	15.3	64.86	6.8	33.43	8.0
I26	02 Aug 2022	1136	9	8e	<2	<2	14.4	63.97	5.5	33.45	7.9
I26	08 Aug 2022	1127	2	<2	<2	<2	17.4	81.25	7.5	33.46	8.1
I26	08 Aug 2022	1127	6	20e	2e	<2	15.1	77.79	7.2	33.43	8.1
I26	08 Aug 2022	1127	9	60e	4e	<2	13.4	69.00	5.3	33.43	7.9
I26	15 Aug 2022	1134	2	2e	2e	<2	19.3	73.81	8.3	33.50	8.1
I26	15 Aug 2022	1134	6	6e	2e	4e	14.6	80.42	7.6	33.48	8.1
I26	15 Aug 2022	1134	9	2e	<2	<2	14.1	82.89	7.3	33.45	8.0
I26	23 Aug 2022	1210	2	<2	<2	<2	20.5	80.67	8.1	33.55	8.2
I26	23 Aug 2022	1210	6	<2	<2	<2	17.1	82.72	7.8	33.43	8.1
I26	23 Aug 2022	1210	9	2e	<2	<2	14.7	81.36	6.3	33.40	7.9
I26	30 Aug 2022	1112	2	<2	<2	<2	18.3	60.59	8.4	33.47	8.2
I26	30 Aug 2022	1112	6	<20	<2	<2	16.3	61.51	6.8	33.41	8.1
I26	30 Aug 2022	1112	9	4e	<2	<2	13.8	78.10	5.8	33.42	7.9
I32	02 Aug 2022	1150	2	2e	<2	<2	18.2	64.91	8.2	33.47	8.2
I32	02 Aug 2022	1150	6	4e	<2	<2	15.6	68.21	7.1	33.45	8.0
I32	02 Aug 2022	1150	9	6e	<2	<2	15.2	71.07	7.0	33.45	8.0
I32	08 Aug 2022	1141	2	<20	<2	<2	17.5	79.45	7.8	33.44	8.1
I32	08 Aug 2022	1141	6	<20	<2	<2	15.9	61.52	7.9	33.43	8.1
I32	08 Aug 2022	1141	9	<20	<2	<2	14.5	60.69	5.5	33.42	7.9
I32	15 Aug 2022	1147	2	<20	<2	2e	19.5	73.63	8.1	33.43	8.1
I32	15 Aug 2022	1147	6	24e	2e	2e	14.4	82.18	7.1	33.46	8.0
I32	15 Aug 2022	1147	9	<2	<2	<2	13.9	80.70	6.7	33.44	8.0
I32	23 Aug 2022	1227	2	<2	<2	<2	19.4	74.51	7.6	33.52	8.1
I32	23 Aug 2022	1227	6	<2	2e	<2	15.8	75.78	7.5	33.40	8.0
I32	23 Aug 2022	1227	9	<2	<2	<2	14.2	77.28	7.1	33.36	8.0
I32	30 Aug 2022	1125	2	<20	<2	<2	17.1	56.94	7.4	33.42	8.1
I32	30 Aug 2022	1125	6	<20	<2	<2	14.5	77.43	5.0	33.42	7.8
I32	30 Aug 2022	1125	9	<20	<2	<2	14.3	75.60	5.0	33.43	7.8
I39	02 Aug 2022	1034	2	<2	<2	<2	19.6	47.23	8.7	33.45	8.2
I39	02 Aug 2022	1034	12	6e	<2	<2	13.9	75.46	5.9	33.45	7.9
I39	02 Aug 2022	1034	18	<2	2e	<2	13.2	73.35	5.2	33.48	7.8
I39	08 Aug 2022	1023	2	<2	<2	<2	16.5	83.83	7.3	33.50	8.0
I39	08 Aug 2022	1023	12	4e	<2	<2	13.3	81.50	6.1	33.44	7.9
I39	08 Aug 2022	1023	18	2e	2e	<2	12.6	87.10	5.3	33.45	7.9
I39	15 Aug 2022	1029	2	<2	<2	<2	19.0	82.59	7.9	33.53	8.1
I39	15 Aug 2022	1029	12	<2	<2	<2	15.1	86.47	8.1	33.46	8.1
I39	15 Aug 2022	1029	18	2e	2e	<2	13.1	83.76	6.6	33.45	8.0

Station	Date	Time	Depth	Total	Fecal	Enteric	Temp	XMS	DO	Sal	pH
I39	23 Aug 2022	1059	2	<2	<2	<2	21.6	83.27	7.9	33.59	8.2
I39	23 Aug 2022	1059	12	<2	<2	<2	13.8	82.95	5.3	33.41	7.8
I39	23 Aug 2022	1059	18	<2	<2	<2	13.4	83.33	4.5	33.45	7.8
I39	30 Aug 2022	1008	2	<2	<2	<2	19.8	71.39	9.4	33.52	8.3
I39	30 Aug 2022	1008	12	<2	<2	<2	15.8	81.86	8.4	33.42	8.1
I39	30 Aug 2022	1008	18	10e	2e	<2	13.3	85.74	7.0	33.41	8.0
I40	02 Aug 2022	1111	2	100e	8e	40	16.8	60.28	8.3	33.43	8.1
I40	02 Aug 2022	1111	6	120	16e	48	15.3	72.89	7.8	33.44	8.1
I40	02 Aug 2022	1111	9	140e	8e	34e	15.3	66.12	7.6	33.44	8.0
I40	08 Aug 2022	1059	2	4000	140e	34e	17.0	83.25	7.7	33.43	8.1
I40	08 Aug 2022	1059	6	12000	1200	280e	14.8	58.06	6.9	33.39	8.0
I40	08 Aug 2022	1059	9	4000	4400	86	14.0	59.56	6.7	33.42	7.9
I40	15 Aug 2022	1108	2	<2	<2	<2	20.1	75.26	7.9	33.49	8.2
I40	15 Aug 2022	1108	6	<2	<2	<2	14.2	72.08	6.5	33.45	8.0
I40	15 Aug 2022	1108	9	<2	<2	<2	13.6	71.64	6.4	33.43	8.0
I40	23 Aug 2022	1140	2	<20	<2	<2	20.1	67.94	7.8	33.53	8.2
I40	23 Aug 2022	1140	6	12e	6e	<2	16.9	63.87	6.7	33.43	8.0
I40	23 Aug 2022	1140	9	30e	10e	<2	15.4	73.71	5.8	33.40	7.9
I40	30 Aug 2022	1048	2	<20	<2	<2	17.2	70.08	6.7	33.41	8.1
I40	30 Aug 2022	1048	6	2e	<2	<2	14.7	77.78	5.1	33.42	7.8
I40	30 Aug 2022	1048	9	4e	<2	2e	14.2	79.04	5.4	33.42	7.9

ns = not sampled

ND = no data

**Table 3.8**

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

Station	Date	Parameter	Value
I19	02 Aug 2022	Depth (m)	11
I19	02 Aug 2022	Arrive Time	1056
I19	02 Aug 2022	Depart Time	1101
I19	02 Aug 2022	Air Temp (C)	20.4
I19	02 Aug 2022	Weather	Partly Cloudy
I19	02 Aug 2022	Visibility (mi)	8
I19	02 Aug 2022	Wind Speed (kts)	7.1
I19	02 Aug 2022	Wind Dir	NW
I19	02 Aug 2022	Water Color	Brownish-Green
I19	02 Aug 2022	Wave Ht Low (ft)	5
I19	02 Aug 2022	Wave Period (sec)	12
I19	02 Aug 2022	Sea State	Regular Swell
I19	02 Aug 2022	High Tide (ft)	4.91
I19	02 Aug 2022	High Tide Time	706
I19	02 Aug 2022	Low Tide (ft)	0.62
I19	02 Aug 2022	Low Tide Time	1336
I19	02 Aug 2022	Comments	none
I19	08 Aug 2022	Depth (m)	11
I19	08 Aug 2022	Arrive Time	1043
I19	08 Aug 2022	Depart Time	1046
I19	08 Aug 2022	Air Temp (C)	17.9
I19	08 Aug 2022	Weather	Fog
I19	08 Aug 2022	Visibility (mi)	1
I19	08 Aug 2022	Wind Speed (kts)	5.2
I19	08 Aug 2022	Wind Dir	SW
I19	08 Aug 2022	Water Color	Greenish-Blue
I19	08 Aug 2022	Wave Ht Low (ft)	4.3
I19	08 Aug 2022	Wave Period (sec)	8
I19	08 Aug 2022	Sea State	Calm
I19	08 Aug 2022	High Tide (ft)	6.39
I19	08 Aug 2022	High Tide Time	142
I19	08 Aug 2022	Low Tide (ft)	-0.25
I19	08 Aug 2022	Low Tide Time	830
I19	08 Aug 2022	Comments	none
I19	15 Aug 2022	Depth (m)	11
I19	15 Aug 2022	Arrive Time	1055
I19	15 Aug 2022	Depart Time	1100
I19	15 Aug 2022	Air Temp (C)	21.3
I19	15 Aug 2022	Weather	Overcast
I19	15 Aug 2022	Visibility (mi)	4
I19	15 Aug 2022	Wind Speed (kts)	4.1
I19	15 Aug 2022	Wind Dir	W
I19	15 Aug 2022	Water Color	Blueish-Green
I19	15 Aug 2022	Wave Ht Low (ft)	2
I19	15 Aug 2022	Wave Period (sec)	14
I19	15 Aug 2022	Sea State	Calm
I19	15 Aug 2022	High Tide (ft)	5.56
I19	15 Aug 2022	High Tide Time	706
I19	15 Aug 2022	Low Tide (ft)	0.15
I19	15 Aug 2022	Low Tide Time	1312
I19	15 Aug 2022	Comments	none
I19	23 Aug 2022	Depth (m)	10
I19	23 Aug 2022	Arrive Time	1125

Station	Date	Parameter	Value
I19	23 Aug 2022	Depart Time	1131
I19	23 Aug 2022	Air Temp (C)	19.7
I19	23 Aug 2022	Weather	Overcast
I19	23 Aug 2022	Visibility (mi)	10
I19	23 Aug 2022	Wind Speed (kts)	5.6
I19	23 Aug 2022	Wind Dir	SW
I19	23 Aug 2022	Water Color	Greenish-Brown
I19	23 Aug 2022	Wave Ht Low (ft)	3.3
I19	23 Aug 2022	Wave Period (sec)	18
I19	23 Aug 2022	Sea State	Regular Swell
I19	23 Aug 2022	High Tide (ft)	5.6
I19	23 Aug 2022	High Tide Time	236
I19	23 Aug 2022	Low Tide (ft)	0.11
I19	23 Aug 2022	Low Tide Time	924
I19	23 Aug 2022	Comments	Bloomy brown
I19	30 Aug 2022	Depth (m)	11
I19	30 Aug 2022	Arrive Time	1034
I19	30 Aug 2022	Depart Time	1041
I19	30 Aug 2022	Air Temp (C)	20.6
I19	30 Aug 2022	Weather	Haze
I19	30 Aug 2022	Visibility (mi)	8
I19	30 Aug 2022	Wind Speed (kts)	5.1
I19	30 Aug 2022	Wind Dir	W
I19	30 Aug 2022	Water Color	Green
I19	30 Aug 2022	Wave Ht Low (ft)	3
I19	30 Aug 2022	Wave Period (sec)	13
I19	30 Aug 2022	Sea State	Light Chop
I19	30 Aug 2022	High Tide (ft)	4.93
I19	30 Aug 2022	High Tide Time	1842
I19	30 Aug 2022	Low Tide (ft)	0.66
I19	30 Aug 2022	Low Tide Time	1218
I19	30 Aug 2022	Comments	none
I24	02 Aug 2022	Depth (m)	10
I24	02 Aug 2022	Arrive Time	1120
I24	02 Aug 2022	Depart Time	1123
I24	02 Aug 2022	Air Temp (C)	20.6
I24	02 Aug 2022	Weather	Partly Cloudy
I24	02 Aug 2022	Visibility (mi)	10
I24	02 Aug 2022	Wind Speed (kts)	8.3
I24	02 Aug 2022	Wind Dir	NW
I24	02 Aug 2022	Water Color	Brownish-Green
I24	02 Aug 2022	Wave Ht Low (ft)	5
I24	02 Aug 2022	Wave Period (sec)	12
I24	02 Aug 2022	Sea State	Regular Swell
I24	02 Aug 2022	High Tide (ft)	4.91
I24	02 Aug 2022	High Tide Time	706
I24	02 Aug 2022	Low Tide (ft)	0.62
I24	02 Aug 2022	Low Tide Time	1336
I24	02 Aug 2022	Comments	none
I24	08 Aug 2022	Depth (m)	4
I24	08 Aug 2022	Arrive Time	1105
I24	08 Aug 2022	Depart Time	1109
I24	08 Aug 2022	Air Temp (C)	18.2
I24	08 Aug 2022	Weather	Fog
I24	08 Aug 2022	Visibility (mi)	1
I24	08 Aug 2022	Wind Speed (kts)	4.1
I24	08 Aug 2022	Wind Dir	SW
I24	08 Aug 2022	Water Color	Greenish-Blue

Station	Date	Parameter	Value
I24	08 Aug 2022	Wave Ht Low (ft)	4.3
I24	08 Aug 2022	Wave Period (sec)	8
I24	08 Aug 2022	Sea State	Calm
I24	08 Aug 2022	High Tide (ft)	6.39
I24	08 Aug 2022	High Tide Time	142
I24	08 Aug 2022	Low Tide (ft)	-0.25
I24	08 Aug 2022	Low Tide Time	830
I24	08 Aug 2022	Comments	none
I24	15 Aug 2022	Depth (m)	11
I24	15 Aug 2022	Arrive Time	1117
I24	15 Aug 2022	Depart Time	1122
I24	15 Aug 2022	Air Temp (C)	20.9
I24	15 Aug 2022	Weather	Overcast
I24	15 Aug 2022	Visibility (mi)	4
I24	15 Aug 2022	Wind Speed (kts)	9.8
I24	15 Aug 2022	Wind Dir	W
I24	15 Aug 2022	Water Color	Blueish-Green
I24	15 Aug 2022	Wave Ht Low (ft)	2
I24	15 Aug 2022	Wave Period (sec)	14
I24	15 Aug 2022	Sea State	Calm
I24	15 Aug 2022	High Tide (ft)	5.56
I24	15 Aug 2022	High Tide Time	706
I24	15 Aug 2022	Low Tide (ft)	0.15
I24	15 Aug 2022	Low Tide Time	1312
I24	15 Aug 2022	Comments	none
I24	23 Aug 2022	Depth (m)	11
I24	23 Aug 2022	Arrive Time	1150
I24	23 Aug 2022	Depart Time	1155
I24	23 Aug 2022	Air Temp (C)	19.8
I24	23 Aug 2022	Weather	Overcast
I24	23 Aug 2022	Visibility (mi)	10
I24	23 Aug 2022	Wind Speed (kts)	5.4
I24	23 Aug 2022	Wind Dir	W
I24	23 Aug 2022	Water Color	Greenish-Brown
I24	23 Aug 2022	Wave Ht Low (ft)	3.3
I24	23 Aug 2022	Wave Period (sec)	18
I24	23 Aug 2022	Sea State	Regular Swell
I24	23 Aug 2022	High Tide (ft)	5.6
I24	23 Aug 2022	High Tide Time	236
I24	23 Aug 2022	Low Tide (ft)	0.11
I24	23 Aug 2022	Low Tide Time	924
I24	23 Aug 2022	Comments	none
I24	30 Aug 2022	Depth (m)	10
I24	30 Aug 2022	Arrive Time	1056
I24	30 Aug 2022	Depart Time	1101
I24	30 Aug 2022	Air Temp (C)	20.4
I24	30 Aug 2022	Weather	Haze
I24	30 Aug 2022	Visibility (mi)	8
I24	30 Aug 2022	Wind Speed (kts)	14.3
I24	30 Aug 2022	Wind Dir	W
I24	30 Aug 2022	Water Color	Green
I24	30 Aug 2022	Wave Ht Low (ft)	3
I24	30 Aug 2022	Wave Period (sec)	13
I24	30 Aug 2022	Sea State	Light Chop
I24	30 Aug 2022	High Tide (ft)	4.93
I24	30 Aug 2022	High Tide Time	1842
I24	30 Aug 2022	Low Tide (ft)	0.66
I24	30 Aug 2022	Low Tide Time	1218

Station	Date	Parameter	Value
I24	30 Aug 2022	Comments	none
I25	02 Aug 2022	Depth (m)	10
I25	02 Aug 2022	Arrive Time	1127
I25	02 Aug 2022	Depart Time	1130
I25	02 Aug 2022	Air Temp (C)	20.6
I25	02 Aug 2022	Weather	Partly Cloudy
I25	02 Aug 2022	Visibility (mi)	10
I25	02 Aug 2022	Wind Speed (kts)	10
I25	02 Aug 2022	Wind Dir	NW
I25	02 Aug 2022	Water Color	Brownish-Green
I25	02 Aug 2022	Wave Ht Low (ft)	5
I25	02 Aug 2022	Wave Period (sec)	12
I25	02 Aug 2022	Sea State	Regular Swell
I25	02 Aug 2022	High Tide (ft)	4.91
I25	02 Aug 2022	High Tide Time	706
I25	02 Aug 2022	Low Tide (ft)	0.62
I25	02 Aug 2022	Low Tide Time	1336
I25	02 Aug 2022	Comments	none
I25	08 Aug 2022	Depth (m)	9
I25	08 Aug 2022	Arrive Time	1112
I25	08 Aug 2022	Depart Time	1117
I25	08 Aug 2022	Air Temp (C)	18.5
I25	08 Aug 2022	Weather	Fog
I25	08 Aug 2022	Visibility (mi)	1
I25	08 Aug 2022	Wind Speed (kts)	5.8
I25	08 Aug 2022	Wind Dir	SW
I25	08 Aug 2022	Water Color	Greenish-Blue
I25	08 Aug 2022	Wave Ht Low (ft)	4.3
I25	08 Aug 2022	Wave Period (sec)	8
I25	08 Aug 2022	Sea State	Calm
I25	08 Aug 2022	High Tide (ft)	6.39
I25	08 Aug 2022	High Tide Time	142
I25	08 Aug 2022	Low Tide (ft)	-0.25
I25	08 Aug 2022	Low Tide Time	830
I25	08 Aug 2022	Comments	none
I25	15 Aug 2022	Depth (m)	9
I25	15 Aug 2022	Arrive Time	1125
I25	15 Aug 2022	Depart Time	1128
I25	15 Aug 2022	Air Temp (C)	21.2
I25	15 Aug 2022	Weather	Overcast
I25	15 Aug 2022	Visibility (mi)	4
I25	15 Aug 2022	Wind Speed (kts)	6.1
I25	15 Aug 2022	Wind Dir	W
I25	15 Aug 2022	Water Color	Blueish-Green
I25	15 Aug 2022	Wave Ht Low (ft)	2
I25	15 Aug 2022	Wave Period (sec)	14
I25	15 Aug 2022	Sea State	Calm
I25	15 Aug 2022	High Tide (ft)	5.56
I25	15 Aug 2022	High Tide Time	706
I25	15 Aug 2022	Low Tide (ft)	0.15
I25	15 Aug 2022	Low Tide Time	1312
I25	15 Aug 2022	Comments	none
I25	23 Aug 2022	Depth (m)	8
I25	23 Aug 2022	Arrive Time	1200
I25	23 Aug 2022	Depart Time	1204
I25	23 Aug 2022	Air Temp (C)	19.8
I25	23 Aug 2022	Weather	Overcast

Station	Date	Parameter	Value
I25	23 Aug 2022	Visibility (mi)	10
I25	23 Aug 2022	Wind Speed (kts)	6.3
I25	23 Aug 2022	Wind Dir	W
I25	23 Aug 2022	Water Color	Blueish-Green
I25	23 Aug 2022	Wave Ht Low (ft)	3.3
I25	23 Aug 2022	Wave Period (sec)	18
I25	23 Aug 2022	Sea State	Regular Swell
I25	23 Aug 2022	High Tide (ft)	5.6
I25	23 Aug 2022	High Tide Time	236
I25	23 Aug 2022	Low Tide (ft)	0.11
I25	23 Aug 2022	Low Tide Time	924
I25	23 Aug 2022	Comments	none
I25	30 Aug 2022	Depth (m)	10
I25	30 Aug 2022	Arrive Time	1103
I25	30 Aug 2022	Depart Time	1106
I25	30 Aug 2022	Air Temp (C)	20.7
I25	30 Aug 2022	Weather	Haze
I25	30 Aug 2022	Visibility (mi)	8
I25	30 Aug 2022	Wind Speed (kts)	16.6
I25	30 Aug 2022	Wind Dir	NW
I25	30 Aug 2022	Water Color	Green
I25	30 Aug 2022	Wave Ht Low (ft)	3
I25	30 Aug 2022	Wave Period (sec)	13
I25	30 Aug 2022	Sea State	Light Chop
I25	30 Aug 2022	High Tide (ft)	4.93
I25	30 Aug 2022	High Tide Time	1842
I25	30 Aug 2022	Low Tide (ft)	0.66
I25	30 Aug 2022	Low Tide Time	1218
I25	30 Aug 2022	Comments	none
I26	02 Aug 2022	Depth (m)	10
I26	02 Aug 2022	Arrive Time	1136
I26	02 Aug 2022	Depart Time	1140
I26	02 Aug 2022	Air Temp (C)	20.7
I26	02 Aug 2022	Weather	Partly Cloudy
I26	02 Aug 2022	Visibility (mi)	10
I26	02 Aug 2022	Wind Speed (kts)	13.5
I26	02 Aug 2022	Wind Dir	W
I26	02 Aug 2022	Water Color	Brownish-Green
I26	02 Aug 2022	Wave Ht Low (ft)	5
I26	02 Aug 2022	Wave Period (sec)	12
I26	02 Aug 2022	Sea State	Regular Swell
I26	02 Aug 2022	High Tide (ft)	4.91
I26	02 Aug 2022	High Tide Time	706
I26	02 Aug 2022	Low Tide (ft)	0.62
I26	02 Aug 2022	Low Tide Time	1336
I26	02 Aug 2022	Comments	none
I26	08 Aug 2022	Depth (m)	14
I26	08 Aug 2022	Arrive Time	1124
I26	08 Aug 2022	Depart Time	1127
I26	08 Aug 2022	Air Temp (C)	19.6
I26	08 Aug 2022	Weather	Fog
I26	08 Aug 2022	Visibility (mi)	1
I26	08 Aug 2022	Wind Speed (kts)	5.2
I26	08 Aug 2022	Wind Dir	SW
I26	08 Aug 2022	Water Color	Greenish-Blue
I26	08 Aug 2022	Wave Ht Low (ft)	4.3
I26	08 Aug 2022	Wave Period (sec)	8
I26	08 Aug 2022	Sea State	Calm

Station	Date	Parameter	Value
I26	08 Aug 2022	High Tide (ft)	6.39
I26	08 Aug 2022	High Tide Time	142
I26	08 Aug 2022	Low Tide (ft)	-0.25
I26	08 Aug 2022	Low Tide Time	830
I26	08 Aug 2022	Comments	none
I26	15 Aug 2022	Depth (m)	10
I26	15 Aug 2022	Arrive Time	1134
I26	15 Aug 2022	Depart Time	1138
I26	15 Aug 2022	Air Temp (C)	21
I26	15 Aug 2022	Weather	Partly Cloudy
I26	15 Aug 2022	Visibility (mi)	4
I26	15 Aug 2022	Wind Speed (kts)	4.4
I26	15 Aug 2022	Wind Dir	W
I26	15 Aug 2022	Water Color	Blueish-Green
I26	15 Aug 2022	Wave Ht Low (ft)	2
I26	15 Aug 2022	Wave Period (sec)	14
I26	15 Aug 2022	Sea State	Calm
I26	15 Aug 2022	High Tide (ft)	5.56
I26	15 Aug 2022	High Tide Time	706
I26	15 Aug 2022	Low Tide (ft)	0.15
I26	15 Aug 2022	Low Tide Time	1312
I26	15 Aug 2022	Comments	none
I26	23 Aug 2022	Depth (m)	9
I26	23 Aug 2022	Arrive Time	1210
I26	23 Aug 2022	Depart Time	1216
I26	23 Aug 2022	Air Temp (C)	19.9
I26	23 Aug 2022	Weather	Partly Cloudy
I26	23 Aug 2022	Visibility (mi)	10
I26	23 Aug 2022	Wind Speed (kts)	6.4
I26	23 Aug 2022	Wind Dir	SW
I26	23 Aug 2022	Water Color	Blueish-Green
I26	23 Aug 2022	Wave Ht Low (ft)	3.3
I26	23 Aug 2022	Wave Period (sec)	18
I26	23 Aug 2022	Sea State	Regular Swell
I26	23 Aug 2022	High Tide (ft)	5.6
I26	23 Aug 2022	High Tide Time	236
I26	23 Aug 2022	Low Tide (ft)	0.11
I26	23 Aug 2022	Low Tide Time	924
I26	23 Aug 2022	Comments	none
I26	30 Aug 2022	Depth (m)	10
I26	30 Aug 2022	Arrive Time	1112
I26	30 Aug 2022	Depart Time	1116
I26	30 Aug 2022	Air Temp (C)	20.8
I26	30 Aug 2022	Weather	Haze
I26	30 Aug 2022	Visibility (mi)	8
I26	30 Aug 2022	Wind Speed (kts)	18.2
I26	30 Aug 2022	Wind Dir	NW
I26	30 Aug 2022	Water Color	Green
I26	30 Aug 2022	Wave Ht Low (ft)	3
I26	30 Aug 2022	Wave Period (sec)	13
I26	30 Aug 2022	Sea State	Light Chop
I26	30 Aug 2022	High Tide (ft)	4.93
I26	30 Aug 2022	High Tide Time	1842
I26	30 Aug 2022	Low Tide (ft)	0.66
I26	30 Aug 2022	Low Tide Time	1218
I26	30 Aug 2022	Comments	none
I32	02 Aug 2022	Depth (m)	10

Station	Date	Parameter	Value
I32	02 Aug 2022	Arrive Time	1150
I32	02 Aug 2022	Depart Time	1152
I32	02 Aug 2022	Air Temp (C)	20.7
I32	02 Aug 2022	Weather	Partly Cloudy
I32	02 Aug 2022	Visibility (mi)	10
I32	02 Aug 2022	Wind Speed (kts)	10.1
I32	02 Aug 2022	Wind Dir	NW
I32	02 Aug 2022	Water Color	Green
I32	02 Aug 2022	Wave Ht Low (ft)	5
I32	02 Aug 2022	Wave Period (sec)	12
I32	02 Aug 2022	Sea State	Regular Swell
I32	02 Aug 2022	High Tide (ft)	4.91
I32	02 Aug 2022	High Tide Time	706
I32	02 Aug 2022	Low Tide (ft)	0.62
I32	02 Aug 2022	Low Tide Time	1336
I32	02 Aug 2022	Comments	none
I32	08 Aug 2022	Depth (m)	10
I32	08 Aug 2022	Arrive Time	1136
I32	08 Aug 2022	Depart Time	1141
I32	08 Aug 2022	Air Temp (C)	18.5
I32	08 Aug 2022	Weather	Fog
I32	08 Aug 2022	Visibility (mi)	1
I32	08 Aug 2022	Wind Speed (kts)	2.3
I32	08 Aug 2022	Wind Dir	SW
I32	08 Aug 2022	Water Color	Greenish-Blue
I32	08 Aug 2022	Wave Ht Low (ft)	4.3
I32	08 Aug 2022	Wave Period (sec)	8
I32	08 Aug 2022	Sea State	Calm
I32	08 Aug 2022	High Tide (ft)	6.39
I32	08 Aug 2022	High Tide Time	142
I32	08 Aug 2022	Low Tide (ft)	-0.25
I32	08 Aug 2022	Low Tide Time	830
I32	08 Aug 2022	Comments	none
I32	15 Aug 2022	Depth (m)	11
I32	15 Aug 2022	Arrive Time	1147
I32	15 Aug 2022	Depart Time	1151
I32	15 Aug 2022	Air Temp (C)	20.9
I32	15 Aug 2022	Weather	Partly Cloudy
I32	15 Aug 2022	Visibility (mi)	4
I32	15 Aug 2022	Wind Speed (kts)	9.4
I32	15 Aug 2022	Wind Dir	W
I32	15 Aug 2022	Water Color	Blueish-Green
I32	15 Aug 2022	Wave Ht Low (ft)	2
I32	15 Aug 2022	Wave Period (sec)	14
I32	15 Aug 2022	Sea State	Calm
I32	15 Aug 2022	High Tide (ft)	5.56
I32	15 Aug 2022	High Tide Time	706
I32	15 Aug 2022	Low Tide (ft)	0.15
I32	15 Aug 2022	Low Tide Time	1312
I32	15 Aug 2022	Comments	none
I32	23 Aug 2022	Depth (m)	10
I32	23 Aug 2022	Arrive Time	1227
I32	23 Aug 2022	Depart Time	1232
I32	23 Aug 2022	Air Temp (C)	20
I32	23 Aug 2022	Weather	Partly Cloudy
I32	23 Aug 2022	Visibility (mi)	10
I32	23 Aug 2022	Wind Speed (kts)	6.6
I32	23 Aug 2022	Wind Dir	SW

Station	Date	Parameter	Value
I32	23 Aug 2022	Water Color	Green
I32	23 Aug 2022	Wave Ht Low (ft)	3.3
I32	23 Aug 2022	Wave Period (sec)	18
I32	23 Aug 2022	Sea State	Regular Swell
I32	23 Aug 2022	High Tide (ft)	5.6
I32	23 Aug 2022	High Tide Time	236
I32	23 Aug 2022	Low Tide (ft)	0.11
I32	23 Aug 2022	Low Tide Time	924
I32	23 Aug 2022	Comments	none
I32	30 Aug 2022	Depth (m)	11
I32	30 Aug 2022	Arrive Time	1125
I32	30 Aug 2022	Depart Time	1128
I32	30 Aug 2022	Air Temp (C)	20.7
I32	30 Aug 2022	Weather	Haze
I32	30 Aug 2022	Visibility (mi)	8
I32	30 Aug 2022	Wind Speed (kts)	13.6
I32	30 Aug 2022	Wind Dir	NW
I32	30 Aug 2022	Water Color	Brown
I32	30 Aug 2022	Wave Ht Low (ft)	3
I32	30 Aug 2022	Wave Period (sec)	13
I32	30 Aug 2022	Sea State	Light Chop
I32	30 Aug 2022	High Tide (ft)	4.93
I32	30 Aug 2022	High Tide Time	1842
I32	30 Aug 2022	Low Tide (ft)	0.66
I32	30 Aug 2022	Low Tide Time	1218
I32	30 Aug 2022	Comments	none
I39	02 Aug 2022	Depth (m)	19
I39	02 Aug 2022	Arrive Time	1034
I39	02 Aug 2022	Depart Time	1038
I39	02 Aug 2022	Air Temp (C)	20.9
I39	02 Aug 2022	Weather	Partly Cloudy
I39	02 Aug 2022	Visibility (mi)	8
I39	02 Aug 2022	Wind Speed (kts)	8.7
I39	02 Aug 2022	Wind Dir	NW
I39	02 Aug 2022	Water Color	Brownish-Green
I39	02 Aug 2022	Wave Ht Low (ft)	5
I39	02 Aug 2022	Wave Period (sec)	12
I39	02 Aug 2022	Sea State	Regular Swell
I39	02 Aug 2022	High Tide (ft)	4.91
I39	02 Aug 2022	High Tide Time	706
I39	02 Aug 2022	Low Tide (ft)	0.62
I39	02 Aug 2022	Low Tide Time	1336
I39	02 Aug 2022	Comments	none
I39	08 Aug 2022	Depth (m)	19
I39	08 Aug 2022	Arrive Time	1020
I39	08 Aug 2022	Depart Time	1023
I39	08 Aug 2022	Air Temp (C)	18
I39	08 Aug 2022	Weather	Fog
I39	08 Aug 2022	Visibility (mi)	1
I39	08 Aug 2022	Wind Speed (kts)	5
I39	08 Aug 2022	Wind Dir	SW
I39	08 Aug 2022	Water Color	Greenish-Blue
I39	08 Aug 2022	Wave Ht Low (ft)	4.3
I39	08 Aug 2022	Wave Period (sec)	8
I39	08 Aug 2022	Sea State	Calm
I39	08 Aug 2022	High Tide (ft)	6.39
I39	08 Aug 2022	High Tide Time	142
I39	08 Aug 2022	Low Tide (ft)	-0.25

Station	Date	Parameter	Value
I39	08 Aug 2022	Low Tide Time	830
I39	08 Aug 2022	Comments	none
I39	15 Aug 2022	Depth (m)	20
I39	15 Aug 2022	Arrive Time	1029
I39	15 Aug 2022	Depart Time	1034
I39	15 Aug 2022	Air Temp (C)	21.3
I39	15 Aug 2022	Weather	Overcast
I39	15 Aug 2022	Visibility (mi)	4
I39	15 Aug 2022	Wind Speed (kts)	5.1
I39	15 Aug 2022	Wind Dir	W
I39	15 Aug 2022	Water Color	Blueish-Green
I39	15 Aug 2022	Wave Ht Low (ft)	2
I39	15 Aug 2022	Wave Period (sec)	14
I39	15 Aug 2022	Sea State	Calm
I39	15 Aug 2022	High Tide (ft)	5.56
I39	15 Aug 2022	High Tide Time	706
I39	15 Aug 2022	Low Tide (ft)	0.15
I39	15 Aug 2022	Low Tide Time	1312
I39	15 Aug 2022	Comments	none
I39	23 Aug 2022	Depth (m)	19
I39	23 Aug 2022	Arrive Time	1059
I39	23 Aug 2022	Depart Time	1104
I39	23 Aug 2022	Air Temp (C)	19.9
I39	23 Aug 2022	Weather	Overcast
I39	23 Aug 2022	Visibility (mi)	7
I39	23 Aug 2022	Wind Speed (kts)	1.9
I39	23 Aug 2022	Wind Dir	W
I39	23 Aug 2022	Water Color	Blueish-Green
I39	23 Aug 2022	Wave Ht Low (ft)	3.3
I39	23 Aug 2022	Wave Period (sec)	18
I39	23 Aug 2022	Sea State	Regular Swell
I39	23 Aug 2022	High Tide (ft)	5.6
I39	23 Aug 2022	High Tide Time	236
I39	23 Aug 2022	Low Tide (ft)	0.11
I39	23 Aug 2022	Low Tide Time	924
I39	23 Aug 2022	Comments	none
I39	30 Aug 2022	Depth (m)	20
I39	30 Aug 2022	Arrive Time	1008
I39	30 Aug 2022	Depart Time	1016
I39	30 Aug 2022	Air Temp (C)	21.2
I39	30 Aug 2022	Weather	Haze
I39	30 Aug 2022	Visibility (mi)	8
I39	30 Aug 2022	Wind Speed (kts)	7.5
I39	30 Aug 2022	Wind Dir	NW
I39	30 Aug 2022	Water Color	Green
I39	30 Aug 2022	Wave Ht Low (ft)	3
I39	30 Aug 2022	Wave Period (sec)	13
I39	30 Aug 2022	Sea State	Light Chop
I39	30 Aug 2022	High Tide (ft)	4.93
I39	30 Aug 2022	High Tide Time	1842
I39	30 Aug 2022	Low Tide (ft)	0.66
I39	30 Aug 2022	Low Tide Time	1218
I39	30 Aug 2022	Comments	none
I40	02 Aug 2022	Depth (m)	11
I40	02 Aug 2022	Arrive Time	1111
I40	02 Aug 2022	Depart Time	1115
I40	02 Aug 2022	Air Temp (C)	20.4

Station	Date	Parameter	Value
I40	02 Aug 2022	Weather	Partly Cloudy
I40	02 Aug 2022	Visibility (mi)	8
I40	02 Aug 2022	Wind Speed (kts)	7.8
I40	02 Aug 2022	Wind Dir	W
I40	02 Aug 2022	Water Color	Brownish-Green
I40	02 Aug 2022	Wave Ht Low (ft)	5
I40	02 Aug 2022	Wave Period (sec)	12
I40	02 Aug 2022	Sea State	Regular Swell
I40	02 Aug 2022	High Tide (ft)	4.91
I40	02 Aug 2022	High Tide Time	706
I40	02 Aug 2022	Low Tide (ft)	0.62
I40	02 Aug 2022	Low Tide Time	1336
I40	02 Aug 2022	Comments	none
I40	08 Aug 2022	Depth (m)	11
I40	08 Aug 2022	Arrive Time	1055
I40	08 Aug 2022	Depart Time	1059
I40	08 Aug 2022	Air Temp (C)	18.1
I40	08 Aug 2022	Weather	Fog
I40	08 Aug 2022	Visibility (mi)	1
I40	08 Aug 2022	Wind Speed (kts)	2.3
I40	08 Aug 2022	Wind Dir	SW
I40	08 Aug 2022	Water Color	Greenish-Blue
I40	08 Aug 2022	Wave Ht Low (ft)	4.3
I40	08 Aug 2022	Wave Period (sec)	8
I40	08 Aug 2022	Sea State	Calm
I40	08 Aug 2022	High Tide (ft)	6.39
I40	08 Aug 2022	High Tide Time	142
I40	08 Aug 2022	Low Tide (ft)	-0.25
I40	08 Aug 2022	Low Tide Time	830
I40	08 Aug 2022	Comments	none
I40	15 Aug 2022	Depth (m)	11
I40	15 Aug 2022	Arrive Time	1108
I40	15 Aug 2022	Depart Time	1116
I40	15 Aug 2022	Air Temp (C)	21.1
I40	15 Aug 2022	Weather	Overcast
I40	15 Aug 2022	Visibility (mi)	4
I40	15 Aug 2022	Wind Speed (kts)	4.4
I40	15 Aug 2022	Wind Dir	W
I40	15 Aug 2022	Water Color	Blueish-Green
I40	15 Aug 2022	Wave Ht Low (ft)	2
I40	15 Aug 2022	Wave Period (sec)	14
I40	15 Aug 2022	Sea State	Calm
I40	15 Aug 2022	High Tide (ft)	5.56
I40	15 Aug 2022	High Tide Time	706
I40	15 Aug 2022	Low Tide (ft)	0.15
I40	15 Aug 2022	Low Tide Time	1312
I40	15 Aug 2022	Comments	none
I40	23 Aug 2022	Depth (m)	10
I40	23 Aug 2022	Arrive Time	1140
I40	23 Aug 2022	Depart Time	1145
I40	23 Aug 2022	Air Temp (C)	19.9
I40	23 Aug 2022	Weather	Overcast
I40	23 Aug 2022	Visibility (mi)	10
I40	23 Aug 2022	Wind Speed (kts)	5.8
I40	23 Aug 2022	Wind Dir	W
I40	23 Aug 2022	Water Color	Greenish-Brown
I40	23 Aug 2022	Wave Ht Low (ft)	3.3
I40	23 Aug 2022	Wave Period (sec)	18

<b>Station</b>	<b>Date</b>	<b>Parameter</b>	<b>Value</b>
I40	23 Aug 2022	Sea State	Regular Swell
I40	23 Aug 2022	High Tide (ft)	5.6
I40	23 Aug 2022	High Tide Time	236
I40	23 Aug 2022	Low Tide (ft)	0.11
I40	23 Aug 2022	Low Tide Time	924
I40	23 Aug 2022	Comments	none
I40	30 Aug 2022	Depth (m)	11
I40	30 Aug 2022	Arrive Time	1048
I40	30 Aug 2022	Depart Time	1052
I40	30 Aug 2022	Air Temp (C)	20.3
I40	30 Aug 2022	Weather	Haze
I40	30 Aug 2022	Visibility (mi)	8
I40	30 Aug 2022	Wind Speed (kts)	14.2
I40	30 Aug 2022	Wind Dir	NW
I40	30 Aug 2022	Water Color	Green
I40	30 Aug 2022	Wave Ht Low (ft)	3
I40	30 Aug 2022	Wave Period (sec)	13
I40	30 Aug 2022	Sea State	Light Chop
I40	30 Aug 2022	High Tide (ft)	4.93
I40	30 Aug 2022	High Tide Time	1842
I40	30 Aug 2022	Low Tide (ft)	0.66
I40	30 Aug 2022	Low Tide Time	1218
I40	30 Aug 2022	Comments	none

**Table 3.9**

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 ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I19	02 Aug 2022	1	17.83	66.19	8.9	33.44	8.2	24.1	1.96
I19	02 Aug 2022	2	17.50	65.98	8.8	33.43	8.2	24.2	2.48
I19	02 Aug 2022	3	16.88	64.55	8.6	33.42	8.2	24.3	4.47
I19	02 Aug 2022	4	16.51	59.04	8.3	33.43	8.1	24.4	6.85
I19	02 Aug 2022	5	16.21	59.96	7.9	33.42	8.1	24.5	6.59
I19	02 Aug 2022	6	15.64	64.29	7.6	33.43	8.1	24.6	5.17
I19	02 Aug 2022	7	15.33	69.05	7.5	33.43	8.1	24.7	3.93
I19	02 Aug 2022	8	15.22	70.85	7.3	33.43	8.0	24.7	3.77
I19	02 Aug 2022	9	15.17	67.49	7.2	33.43	8.0	24.7	4.09
I19	02 Aug 2022	10	15.16	58.30	7.2	33.43	8.0	24.7	4.34
I19	08 Aug 2022	1	16.67	69.47	7.9	33.42	8.1	24.4	2.38
I19	08 Aug 2022	2	16.39	68.18	7.8	33.42	8.1	24.4	3.04
I19	08 Aug 2022	3	16.19	66.32	7.8	33.43	8.1	24.5	4.71
I19	08 Aug 2022	4	16.07	63.37	7.9	33.44	8.1	24.5	6.67
I19	08 Aug 2022	5	16.03	62.28	7.9	33.44	8.1	24.5	8.12
I19	08 Aug 2022	6	15.96	62.70	7.8	33.43	8.1	24.6	8.68
I19	08 Aug 2022	7	15.78	63.08	7.7	33.43	8.1	24.6	8.68
I19	08 Aug 2022	8	15.49	64.03	7.5	33.43	8.0	24.7	8.41
I19	08 Aug 2022	9	15.16	65.47	6.9	33.42	8.0	24.7	8.07
I19	08 Aug 2022	10	13.38	62.15	6.1	33.43	8.0	25.1	7.67
I19	15 Aug 2022	1	19.20	72.98	8.1	33.47	8.1	23.8	1.72
I19	15 Aug 2022	2	18.22	72.81	7.8	33.45	8.1	24.0	1.98
I19	15 Aug 2022	3	17.58	67.45	7.8	33.48	8.1	24.2	3.15
I19	15 Aug 2022	4	16.96	71.59	7.5	33.46	8.1	24.3	3.34
I19	15 Aug 2022	5	15.44	79.25	7.4	33.46	8.1	24.7	3.28
I19	15 Aug 2022	6	14.84	78.57	7.3	33.44	8.0	24.8	4.02
I19	15 Aug 2022	7	14.32	78.43	7.2	33.43	8.0	24.9	4.72
I19	15 Aug 2022	8	14.01	75.78	6.8	33.42	8.0	25.0	5.12
I19	15 Aug 2022	9	13.77	68.03	6.3	33.43	7.9	25.0	5.79
I19	15 Aug 2022	10	13.83	60.80	6.1	33.43	7.9	25.0	6.29
I19	23 Aug 2022	1	20.41	70.11	8.3	33.55	8.2	23.5	4.20
I19	23 Aug 2022	2	19.92	70.51	8.3	33.53	8.2	23.7	5.29
I19	23 Aug 2022	3	19.37	69.24	8.2	33.51	8.2	23.8	11.95
I19	23 Aug 2022	4	19.01	59.55	7.8	33.49	8.1	23.9	16.87
I19	23 Aug 2022	5	18.60	54.39	7.1	33.47	8.1	24.0	16.61
I19	23 Aug 2022	6	17.71	56.00	6.3	33.42	8.0	24.1	14.82
I19	23 Aug 2022	7	15.61	61.15	5.4	33.42	7.9	24.6	11.18
I19	23 Aug 2022	8	14.78	68.38	5.0	33.43	7.8	24.8	6.68
I19	23 Aug 2022	9	14.50	68.32	5.0	33.41	7.8	24.9	6.10
I19	23 Aug 2022	10	14.29	62.75	5.1	33.42	7.8	24.9	6.95
I19	30 Aug 2022	1	16.13	64.33	7.4	33.42	8.1	24.5	3.34
I19	30 Aug 2022	2	15.47	67.66	7.1	33.43	8.1	24.7	3.24
I19	30 Aug 2022	3	14.91	72.16	6.4	33.43	8.0	24.8	4.41
I19	30 Aug 2022	4	14.69	67.21	6.2	33.43	7.9	24.8	5.56
I19	30 Aug 2022	5	14.63	71.92	6.0	33.42	7.9	24.8	5.87
I19	30 Aug 2022	6	14.32	75.34	5.8	33.42	7.9	24.9	5.69
I19	30 Aug 2022	7	14.14	75.44	5.7	33.42	7.9	24.9	4.96
I19	30 Aug 2022	8	14.05	77.64	5.8	33.42	7.9	25.0	4.49
I19	30 Aug 2022	9	13.93	78.37	5.9	33.42	7.9	25.0	3.79
I19	30 Aug 2022	10	13.91	77.32	6.0	33.42	7.9	25.0	3.06
I24	02 Aug 2022	1	17.87	68.46	8.5	33.44	8.2	24.1	1.89

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I24	02 Aug 2022	2	17.28	67.67	8.3	33.40	8.2	24.2	2.06
I24	02 Aug 2022	3	16.02	66.30	8.2	33.44	8.1	24.5	2.88
I24	02 Aug 2022	4	15.45	66.37	8.0	33.42	8.1	24.7	3.89
I24	02 Aug 2022	5	15.00	69.05	7.8	33.43	8.1	24.8	5.41
I24	02 Aug 2022	6	14.92	70.29	7.6	33.42	8.1	24.8	6.35
I24	02 Aug 2022	7	14.82	71.32	7.4	33.42	8.0	24.8	6.24
I24	02 Aug 2022	8	14.72	72.95	7.2	33.42	8.0	24.8	5.68
I24	02 Aug 2022	9	14.47	73.48	6.6	33.44	8.0	24.9	4.80
I24	02 Aug 2022	10	14.44	68.66	6.3	33.45	7.9	24.9	4.01
I24	08 Aug 2022	1	16.85	71.83	8.5	33.46	8.1	24.4	2.55
I24	08 Aug 2022	2	16.78	71.93	8.4	33.44	8.1	24.4	3.03
I24	08 Aug 2022	3	16.18	69.40	8.3	33.41	8.1	24.5	6.45
I24	08 Aug 2022	4	15.96	61.50	7.8	33.41	8.1	24.5	9.55
I24	08 Aug 2022	5	15.33	59.68	6.8	33.37	8.0	24.6	9.48
I24	08 Aug 2022	6	14.54	62.33	6.2	33.43	8.0	24.9	6.61
I24	08 Aug 2022	7	14.69	67.05	5.8	33.42	7.9	24.8	4.88
I24	08 Aug 2022	8	13.83	69.08	5.2	33.42	7.9	25.0	4.65
I24	08 Aug 2022	9	13.72	70.20	4.8	33.44	7.8	25.0	3.76
I24	08 Aug 2022	10	13.72	70.18	4.7	33.44	7.8	25.0	3.14
I24	15 Aug 2022	1	19.63	69.92	8.6	33.50	8.2	23.7	2.64
I24	15 Aug 2022	2	19.44	68.57	8.5	33.50	8.2	23.8	2.96
I24	15 Aug 2022	3	19.25	70.04	8.4	33.49	8.2	23.8	3.31
I24	15 Aug 2022	4	18.73	75.52	8.1	33.49	8.1	23.9	2.70
I24	15 Aug 2022	5	17.55	79.69	7.4	33.48	8.1	24.2	2.34
I24	15 Aug 2022	6	15.96	78.92	6.9	33.47	8.0	24.6	2.56
I24	15 Aug 2022	7	14.64	80.97	6.5	33.46	8.0	24.9	2.09
I24	15 Aug 2022	8	14.45	80.65	6.3	33.45	8.0	24.9	1.63
I24	15 Aug 2022	9	13.79	77.98	6.1	33.44	7.9	25.0	2.03
I24	15 Aug 2022	10	13.55	62.84	5.8	33.43	7.9	25.1	2.36
I24	23 Aug 2022	1	20.99	78.13	8.1	33.57	8.2	23.4	2.66
I24	23 Aug 2022	2	20.18	77.88	7.8	33.51	8.2	23.6	3.32
I24	23 Aug 2022	3	18.19	76.96	7.6	33.49	8.1	24.1	4.25
I24	23 Aug 2022	4	17.08	76.18	7.3	33.42	8.1	24.3	4.54
I24	23 Aug 2022	5	15.53	76.47	7.6	33.41	8.1	24.6	4.46
I24	23 Aug 2022	6	15.02	77.59	7.4	33.41	8.0	24.7	4.49
I24	23 Aug 2022	7	14.89	78.65	6.8	33.41	8.0	24.8	5.26
I24	23 Aug 2022	8	14.65	76.58	5.8	33.41	7.9	24.8	6.31
I24	23 Aug 2022	9	14.28	73.93	4.9	33.42	7.8	24.9	5.69
I24	23 Aug 2022	10	14.21	74.22	4.5	33.42	7.8	24.9	3.54
I24	23 Aug 2022	11	14.22	74.56	4.4	33.43	7.8	24.9	2.72
I24	30 Aug 2022	1	16.47	78.52	6.0	33.59	8.0	24.6	0.81
I24	30 Aug 2022	2	16.68	78.51	6.2	33.47	8.0	24.4	0.77
I24	30 Aug 2022	3	15.95	78.44	6.3	33.43	8.0	24.5	0.79
I24	30 Aug 2022	4	14.75	80.40	6.9	33.44	8.0	24.8	1.03
I24	30 Aug 2022	5	14.72	80.63	7.1	33.42	8.0	24.8	1.28
I24	30 Aug 2022	6	14.62	80.62	7.0	33.41	8.0	24.8	1.55
I24	30 Aug 2022	7	14.45	81.56	6.8	33.42	8.0	24.9	1.66
I24	30 Aug 2022	8	14.41	82.35	6.8	33.41	8.0	24.9	1.74
I24	30 Aug 2022	9	14.32	82.63	6.8	33.42	8.0	24.9	1.83
I24	30 Aug 2022	10	14.33	82.54	6.8	33.42	8.0	24.9	1.84
I24	30 Aug 2022	11	14.34	82.65	6.9	33.42	8.0	24.9	1.82
I25	02 Aug 2022	1	19.28	66.67	8.3	33.45	8.2	23.8	1.73
I25	02 Aug 2022	2	17.77	66.14	8.0	33.42	8.2	24.1	2.06
I25	02 Aug 2022	3	15.74	63.70	8.1	33.43	8.1	24.6	2.81
I25	02 Aug 2022	4	15.13	68.65	8.1	33.42	8.1	24.7	3.49
I25	02 Aug 2022	5	14.94	70.61	7.9	33.41	8.1	24.8	4.37

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I25	02 Aug 2022	6	14.81	70.86	7.6	33.41	8.1	24.8	5.54
I25	02 Aug 2022	7	14.77	70.31	7.4	33.42	8.0	24.8	6.63
I25	02 Aug 2022	8	14.56	70.24	6.8	33.43	8.0	24.9	6.16
I25	02 Aug 2022	9	14.51	69.33	6.4	33.44	8.0	24.9	5.16
I25	08 Aug 2022	1	17.38	81.36	7.8	33.44	8.1	24.2	1.47
I25	08 Aug 2022	2	16.54	78.50	8.0	33.45	8.1	24.4	1.99
I25	08 Aug 2022	3	16.31	73.48	8.0	33.44	8.1	24.5	3.02
I25	08 Aug 2022	4	15.75	71.27	8.0	33.42	8.1	24.6	4.26
I25	08 Aug 2022	5	15.49	69.04	7.6	33.40	8.1	24.6	6.45
I25	08 Aug 2022	6	15.18	66.39	6.5	33.38	8.0	24.7	8.43
I25	08 Aug 2022	7	13.86	62.90	5.5	33.42	7.9	25.0	6.86
I25	08 Aug 2022	8	13.66	70.12	5.1	33.43	7.9	25.0	4.20
I25	08 Aug 2022	9	13.64	73.55	5.1	33.43	7.8	25.0	2.88
I25	15 Aug 2022	1	19.36	78.56	8.2	33.50	8.1	23.8	1.53
I25	15 Aug 2022	2	19.19	78.59	8.2	33.50	8.1	23.8	1.58
I25	15 Aug 2022	3	19.08	78.32	8.2	33.50	8.1	23.9	1.85
I25	15 Aug 2022	4	18.75	78.54	7.8	33.49	8.1	23.9	2.12
I25	15 Aug 2022	5	17.06	77.09	7.1	33.47	8.1	24.3	2.95
I25	15 Aug 2022	6	15.55	73.52	7.1	33.48	8.0	24.7	2.83
I25	15 Aug 2022	7	14.97	79.08	7.1	33.45	8.0	24.8	2.36
I25	15 Aug 2022	8	14.36	81.11	6.8	33.45	8.0	24.9	2.45
I25	15 Aug 2022	9	14.34	79.13	6.7	33.45	8.0	24.9	2.19
I25	23 Aug 2022	1	21.18	80.80	8.1	33.58	8.2	23.4	1.78
I25	23 Aug 2022	2	21.01	80.74	7.8	33.54	8.2	23.4	1.90
I25	23 Aug 2022	3	19.04	80.89	7.8	33.50	8.2	23.9	1.90
I25	23 Aug 2022	4	17.72	81.41	7.7	33.48	8.1	24.2	1.83
I25	23 Aug 2022	5	17.06	81.88	7.3	33.43	8.1	24.3	1.97
I25	23 Aug 2022	6	15.79	80.93	7.2	33.38	8.1	24.6	2.53
I25	23 Aug 2022	7	14.98	78.91	6.4	33.42	8.0	24.8	3.46
I25	23 Aug 2022	8	14.86	77.43	5.5	33.42	7.9	24.8	3.46
I25	23 Aug 2022	9	14.86	77.16	5.4	33.42	7.8	24.8	3.18
I25	30 Aug 2022	1	17.45	71.22	7.4	33.46	8.1	24.2	1.19
I25	30 Aug 2022	2	17.25	64.11	7.0	33.44	8.1	24.3	1.23
I25	30 Aug 2022	3	15.77	72.78	6.6	33.45	8.0	24.6	1.39
I25	30 Aug 2022	4	14.61	74.20	6.7	33.43	8.0	24.8	1.81
I25	30 Aug 2022	5	14.26	77.51	6.6	33.41	8.0	24.9	2.10
I25	30 Aug 2022	6	13.89	81.83	6.5	33.41	8.0	25.0	1.92
I25	30 Aug 2022	7	13.82	83.32	6.3	33.41	8.0	25.0	2.00
I25	30 Aug 2022	8	13.72	84.21	6.3	33.41	8.0	25.0	1.93
I25	30 Aug 2022	9	13.71	83.98	6.2	33.41	7.9	25.0	1.86
I26	02 Aug 2022	1	19.33	63.64	8.2	33.48	8.2	23.8	2.11
I26	02 Aug 2022	2	18.81	64.17	8.1	33.45	8.2	23.9	2.39
I26	02 Aug 2022	3	17.92	61.59	8.1	33.47	8.2	24.1	3.66
I26	02 Aug 2022	4	17.69	59.57	7.6	33.42	8.2	24.1	4.92
I26	02 Aug 2022	5	15.88	59.78	7.3	33.44	8.1	24.6	6.32
I26	02 Aug 2022	6	15.27	64.86	6.8	33.43	8.0	24.7	5.94
I26	02 Aug 2022	7	14.81	70.37	6.3	33.44	8.0	24.8	5.36
I26	02 Aug 2022	8	14.59	69.37	5.9	33.44	7.9	24.9	4.83
I26	02 Aug 2022	9	14.43	63.97	5.5	33.45	7.9	24.9	4.22
I26	08 Aug 2022	1	17.48	77.80	7.7	33.47	8.1	24.2	1.04
I26	08 Aug 2022	2	17.40	81.25	7.5	33.46	8.1	24.2	1.10
I26	08 Aug 2022	3	16.25	79.61	7.3	33.45	8.1	24.5	1.29
I26	08 Aug 2022	4	15.41	78.46	7.4	33.46	8.1	24.7	1.50
I26	08 Aug 2022	5	15.24	79.37	7.5	33.44	8.1	24.7	2.12
I26	08 Aug 2022	6	15.05	77.79	7.2	33.43	8.1	24.8	3.29

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I26	08 Aug 2022	7	14.65	75.28	6.4	33.41	8.0	24.8	5.09
I26	08 Aug 2022	8	13.54	70.07	5.6	33.42	7.9	25.1	6.24
I26	08 Aug 2022	9	13.37	69.00	5.3	33.43	7.9	25.1	4.74
I26	15 Aug 2022	1	19.31	73.29	8.4	33.50	8.1	23.8	2.54
I26	15 Aug 2022	2	19.31	73.81	8.3	33.50	8.1	23.8	2.46
I26	15 Aug 2022	3	18.97	74.31	8.1	33.49	8.1	23.9	3.07
I26	15 Aug 2022	4	17.86	71.38	7.7	33.47	8.1	24.1	4.03
I26	15 Aug 2022	5	16.88	73.11	7.3	33.45	8.1	24.4	4.14
I26	15 Aug 2022	6	14.58	80.42	7.6	33.48	8.1	24.9	3.06
I26	15 Aug 2022	7	14.56	83.47	7.6	33.45	8.1	24.9	2.61
I26	15 Aug 2022	8	14.16	83.61	7.5	33.45	8.1	25.0	2.92
I26	15 Aug 2022	9	14.11	82.89	7.3	33.45	8.0	25.0	3.27
I26	23 Aug 2022	1	21.29	81.72	8.1	33.56	8.2	23.3	1.07
I26	23 Aug 2022	2	20.49	80.67	8.1	33.55	8.2	23.5	1.12
I26	23 Aug 2022	3	19.59	78.45	8.0	33.50	8.2	23.7	1.21
I26	23 Aug 2022	4	18.21	80.85	8.3	33.48	8.2	24.1	1.37
I26	23 Aug 2022	5	17.48	81.94	8.4	33.46	8.1	24.2	1.35
I26	23 Aug 2022	6	17.11	82.72	7.8	33.43	8.1	24.3	1.48
I26	23 Aug 2022	7	15.85	81.91	6.9	33.40	8.1	24.5	1.88
I26	23 Aug 2022	8	14.70	79.82	6.4	33.41	8.0	24.8	2.03
I26	23 Aug 2022	9	14.68	81.36	6.3	33.40	7.9	24.8	1.79
I26	30 Aug 2022	1	18.23	69.59	8.6	33.49	8.2	24.1	1.89
I26	30 Aug 2022	2	18.27	60.59	8.4	33.47	8.2	24.0	1.95
I26	30 Aug 2022	3	17.90	69.48	8.2	33.48	8.2	24.1	2.14
I26	30 Aug 2022	4	17.53	67.61	8.0	33.47	8.2	24.2	2.88
I26	30 Aug 2022	5	17.22	62.77	7.5	33.46	8.1	24.3	4.18
I26	30 Aug 2022	6	16.31	61.51	6.8	33.41	8.1	24.5	4.83
I26	30 Aug 2022	7	14.54	68.98	6.5	33.44	8.0	24.9	4.84
I26	30 Aug 2022	8	14.54	76.57	6.2	33.41	8.0	24.8	4.67
I26	30 Aug 2022	9	13.80	78.10	5.8	33.42	7.9	25.0	4.52
I32	02 Aug 2022	1	18.47	65.41	8.4	33.47	8.2	24.0	1.98
I32	02 Aug 2022	2	18.21	64.91	8.2	33.47	8.2	24.0	2.12
I32	02 Aug 2022	3	17.34	64.77	8.1	33.47	8.2	24.3	2.32
I32	02 Aug 2022	4	16.76	65.76	7.8	33.46	8.1	24.4	2.65
I32	02 Aug 2022	5	15.94	66.18	7.4	33.47	8.1	24.6	3.43
I32	02 Aug 2022	6	15.60	68.21	7.1	33.45	8.0	24.6	4.37
I32	02 Aug 2022	7	15.46	69.41	7.0	33.45	8.0	24.7	5.08
I32	02 Aug 2022	8	15.32	70.02	7.0	33.45	8.0	24.7	5.39
I32	02 Aug 2022	9	15.16	71.07	7.0	33.45	8.0	24.7	5.60
I32	02 Aug 2022	10	14.72	70.27	6.6	33.47	8.0	24.9	6.05
I32	08 Aug 2022	1	17.91	79.40	7.7	33.46	8.1	24.1	0.86
I32	08 Aug 2022	2	17.49	79.45	7.8	33.44	8.1	24.2	0.97
I32	08 Aug 2022	3	16.54	77.57	8.2	33.44	8.1	24.4	1.53
I32	08 Aug 2022	4	16.25	72.32	8.2	33.43	8.1	24.5	2.77
I32	08 Aug 2022	5	15.99	66.30	8.0	33.42	8.1	24.5	4.50
I32	08 Aug 2022	6	15.89	61.52	7.9	33.43	8.1	24.6	6.63
I32	08 Aug 2022	7	15.87	60.72	7.7	33.42	8.1	24.6	7.74
I32	08 Aug 2022	8	15.47	61.15	6.8	33.42	8.0	24.7	7.88
I32	08 Aug 2022	9	14.48	60.69	5.5	33.42	7.9	24.9	8.79
I32	08 Aug 2022	10	13.48	58.97	4.4	33.45	7.8	25.1	8.64
I32	15 Aug 2022	1	19.62	73.79	8.2	33.44	8.1	23.7	1.54
I32	15 Aug 2022	2	19.54	73.63	8.1	33.43	8.1	23.7	1.66
I32	15 Aug 2022	3	19.33	73.26	7.4	33.39	8.1	23.7	1.87
I32	15 Aug 2022	4	15.64	72.90	7.6	33.49	8.1	24.7	2.05
I32	15 Aug 2022	5	16.25	79.02	7.2	33.43	8.0	24.5	2.04

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma-t$ )	Chlor ( $\mu\text{g/L}$ )
I32	15 Aug 2022	6	14.39	82.18	7.1	33.46	8.0	24.9	2.18
I32	15 Aug 2022	7	14.37	81.61	7.0	33.44	8.0	24.9	2.45
I32	15 Aug 2022	8	14.11	81.18	6.9	33.44	8.0	25.0	2.92
I32	15 Aug 2022	9	13.93	80.70	6.7	33.44	8.0	25.0	3.49
I32	15 Aug 2022	10	13.87	79.30	6.6	33.44	8.0	25.0	3.77
I32	23 Aug 2022	1	21.07	75.59	7.6	33.54	8.1	23.4	1.57
I32	23 Aug 2022	2	19.35	74.51	7.6	33.52	8.1	23.8	2.34
I32	23 Aug 2022	3	18.18	69.35	7.5	33.48	8.1	24.1	3.34
I32	23 Aug 2022	4	17.61	68.78	7.3	33.43	8.1	24.2	3.52
I32	23 Aug 2022	5	16.36	73.24	7.5	33.40	8.1	24.4	3.82
I32	23 Aug 2022	6	15.77	75.78	7.5	33.40	8.0	24.6	4.64
I32	23 Aug 2022	7	15.04	73.85	7.2	33.37	8.0	24.7	5.94
I32	23 Aug 2022	8	14.35	73.13	7.1	33.37	8.0	24.9	5.47
I32	23 Aug 2022	9	14.18	77.28	7.1	33.36	8.0	24.9	4.18
I32	23 Aug 2022	10	14.15	77.46	7.1	33.37	8.0	24.9	3.78
I32	30 Aug 2022	1	17.43	57.35	8.2	33.46	8.1	24.2	3.54
I32	30 Aug 2022	2	17.12	56.94	7.4	33.42	8.1	24.3	3.71
I32	30 Aug 2022	3	15.22	58.54	5.8	33.44	8.0	24.7	3.78
I32	30 Aug 2022	4	14.72	73.70	5.2	33.42	7.8	24.8	3.11
I32	30 Aug 2022	5	14.56	76.01	5.0	33.42	7.8	24.9	3.03
I32	30 Aug 2022	6	14.51	77.43	5.0	33.42	7.8	24.9	3.36
I32	30 Aug 2022	7	14.41	78.71	5.0	33.42	7.8	24.9	3.64
I32	30 Aug 2022	8	14.33	77.36	5.0	33.43	7.8	24.9	3.27
I32	30 Aug 2022	9	14.34	75.60	5.0	33.43	7.8	24.9	2.92
I32	30 Aug 2022	10	14.32	75.20	5.0	33.44	7.8	24.9	2.90
I39	02 Aug 2022	1	20.53	50.16	9.1	33.49	8.2	23.5	2.63
I39	02 Aug 2022	2	19.64	47.23	8.7	33.45	8.2	23.7	3.12
I39	02 Aug 2022	3	17.60	63.62	8.5	33.42	8.2	24.2	3.73
I39	02 Aug 2022	4	16.07	68.11	8.7	33.43	8.2	24.5	3.52
I39	02 Aug 2022	5	15.79	74.17	8.7	33.42	8.1	24.6	3.35
I39	02 Aug 2022	6	15.55	76.57	8.6	33.42	8.1	24.6	3.37
I39	02 Aug 2022	7	15.22	76.60	8.4	33.41	8.1	24.7	3.69
I39	02 Aug 2022	8	14.90	76.76	8.3	33.43	8.1	24.8	4.18
I39	02 Aug 2022	9	14.70	77.14	8.1	33.42	8.1	24.8	4.63
I39	02 Aug 2022	10	14.27	77.64	7.5	33.43	8.1	24.9	5.33
I39	02 Aug 2022	11	14.09	76.40	6.7	33.44	8.0	25.0	6.12
I39	02 Aug 2022	12	13.89	75.46	5.9	33.45	7.9	25.0	5.81
I39	02 Aug 2022	13	13.82	76.90	5.6	33.46	7.9	25.0	5.13
I39	02 Aug 2022	14	13.69	78.06	5.5	33.46	7.9	25.1	4.75
I39	02 Aug 2022	15	13.59	79.23	5.4	33.47	7.9	25.1	4.19
I39	02 Aug 2022	16	13.42	79.85	5.4	33.46	7.8	25.1	3.98
I39	02 Aug 2022	17	13.32	79.51	5.4	33.47	7.8	25.1	5.50
I39	02 Aug 2022	18	13.25	73.35	5.2	33.48	7.8	25.2	5.26
I39	08 Aug 2022	1	16.77	84.06	7.4	33.51	8.0	24.4	0.72
I39	08 Aug 2022	2	16.49	83.83	7.3	33.50	8.0	24.5	0.73
I39	08 Aug 2022	3	16.05	83.22	7.1	33.51	8.0	24.6	0.90
I39	08 Aug 2022	4	15.63	82.24	6.9	33.47	8.0	24.7	1.09
I39	08 Aug 2022	5	14.63	82.44	7.3	33.45	8.0	24.9	1.18
I39	08 Aug 2022	6	14.35	83.62	7.4	33.44	8.0	24.9	1.50
I39	08 Aug 2022	7	14.18	83.56	7.3	33.43	8.0	24.9	1.79
I39	08 Aug 2022	8	14.00	83.70	7.1	33.42	8.0	25.0	2.20
I39	08 Aug 2022	9	13.90	83.52	6.9	33.43	8.0	25.0	2.71
I39	08 Aug 2022	10	13.83	82.90	6.7	33.43	8.0	25.0	3.20
I39	08 Aug 2022	11	13.55	82.05	6.5	33.42	8.0	25.1	3.50
I39	08 Aug 2022	12	13.30	81.50	6.1	33.44	7.9	25.1	3.08
I39	08 Aug 2022	13	13.09	83.11	5.8	33.42	7.9	25.2	2.39
I39	08 Aug 2022	14	12.77	85.23	5.6	33.43	7.9	25.2	1.69

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I39	08 Aug 2022	15	12.57	86.58	5.5	33.45	7.9	25.3	1.30
I39	08 Aug 2022	16	12.56	86.94	5.4	33.45	7.9	25.3	1.20
I39	08 Aug 2022	17	12.55	87.16	5.4	33.45	7.9	25.3	1.05
I39	08 Aug 2022	18	12.55	87.10	5.3	33.45	7.9	25.3	1.08
I39	15 Aug 2022	1	19.10	82.29	7.9	33.52	8.1	23.9	1.12
I39	15 Aug 2022	2	18.99	82.59	7.9	33.53	8.1	23.9	1.15
I39	15 Aug 2022	3	18.53	82.69	7.6	33.52	8.1	24.0	1.23
I39	15 Aug 2022	4	17.54	82.82	7.6	33.51	8.1	24.2	1.33
I39	15 Aug 2022	5	17.26	83.32	7.8	33.50	8.1	24.3	1.52
I39	15 Aug 2022	6	17.19	83.67	7.7	33.49	8.1	24.3	1.66
I39	15 Aug 2022	7	17.01	83.47	7.8	33.49	8.1	24.4	1.85
I39	15 Aug 2022	8	17.06	83.49	7.7	33.49	8.1	24.3	1.98
I39	15 Aug 2022	9	16.56	83.56	7.5	33.48	8.1	24.5	2.04
I39	15 Aug 2022	10	15.61	84.52	7.7	33.48	8.1	24.7	2.07
I39	15 Aug 2022	11	15.20	85.68	8.0	33.47	8.1	24.7	2.05
I39	15 Aug 2022	12	15.13	86.47	8.1	33.46	8.1	24.8	1.90
I39	15 Aug 2022	13	14.91	86.54	8.1	33.47	8.1	24.8	1.78
I39	15 Aug 2022	14	14.76	86.70	8.0	33.47	8.1	24.8	1.95
I39	15 Aug 2022	15	14.59	85.65	7.9	33.47	8.1	24.9	2.29
I39	15 Aug 2022	16	14.37	85.18	7.6	33.47	8.1	24.9	2.58
I39	15 Aug 2022	17	13.99	84.07	7.2	33.46	8.0	25.0	3.22
I39	15 Aug 2022	18	13.12	83.76	6.6	33.45	8.0	25.2	3.26
I39	23 Aug 2022	1	21.60	83.72	8.0	33.59	8.2	23.3	1.53
I39	23 Aug 2022	2	21.65	83.27	7.9	33.59	8.2	23.2	1.55
I39	23 Aug 2022	3	21.36	83.44	7.6	33.58	8.2	23.3	1.58
I39	23 Aug 2022	4	20.38	84.48	7.4	33.48	8.2	23.5	1.45
I39	23 Aug 2022	5	17.29	85.64	8.3	33.44	8.2	24.2	1.29
I39	23 Aug 2022	6	16.12	85.82	8.8	33.42	8.2	24.5	1.42
I39	23 Aug 2022	7	15.99	85.01	8.9	33.39	8.1	24.5	1.75
I39	23 Aug 2022	8	15.69	83.74	8.3	33.37	8.1	24.6	2.28
I39	23 Aug 2022	9	15.18	81.70	7.3	33.38	8.1	24.7	3.21
I39	23 Aug 2022	10	14.57	79.08	6.4	33.41	8.0	24.8	4.42
I39	23 Aug 2022	11	13.96	80.72	5.8	33.42	7.9	25.0	4.20
I39	23 Aug 2022	12	13.79	82.95	5.3	33.41	7.8	25.0	4.16
I39	23 Aug 2022	13	13.54	83.06	5.0	33.42	7.8	25.1	4.02
I39	23 Aug 2022	14	13.40	81.09	4.7	33.43	7.8	25.1	4.27
I39	23 Aug 2022	15	13.39	80.78	4.6	33.43	7.8	25.1	3.85
I39	23 Aug 2022	16	13.39	82.65	4.5	33.44	7.8	25.1	3.51
I39	23 Aug 2022	17	13.38	83.04	4.5	33.44	7.8	25.1	3.17
I39	23 Aug 2022	18	13.37	83.33	4.5	33.45	7.8	25.1	2.92
I39	30 Aug 2022	2	19.78	71.39	9.4	33.52	8.3	23.7	2.95
I39	30 Aug 2022	3	19.55	65.70	9.4	33.52	8.3	23.7	6.35
I39	30 Aug 2022	4	19.11	61.32	9.2	33.50	8.3	23.8	11.09
I39	30 Aug 2022	5	18.75	68.32	9.0	33.50	8.2	23.9	9.83
I39	30 Aug 2022	6	18.06	80.11	8.5	33.49	8.2	24.1	7.09
I39	30 Aug 2022	7	17.77	82.14	8.2	33.48	8.2	24.2	3.89
I39	30 Aug 2022	8	17.67	84.31	8.2	33.47	8.2	24.2	2.71
I39	30 Aug 2022	9	17.26	84.54	8.0	33.45	8.2	24.3	2.36
I39	30 Aug 2022	10	17.12	84.00	7.8	33.45	8.1	24.3	2.52
I39	30 Aug 2022	11	16.34	83.26	8.0	33.42	8.1	24.5	2.83
I39	30 Aug 2022	12	15.85	81.86	8.4	33.42	8.1	24.6	3.50
I39	30 Aug 2022	13	15.38	81.32	8.4	33.39	8.1	24.6	3.67
I39	30 Aug 2022	14	15.02	80.84	8.8	33.40	8.2	24.7	4.11
I39	30 Aug 2022	15	14.86	81.42	8.6	33.39	8.2	24.8	4.14
I39	30 Aug 2022	16	14.22	82.23	8.3	33.37	8.1	24.9	3.92
I39	30 Aug 2022	17	13.68	84.27	7.7	33.39	8.1	25.0	3.83
I39	30 Aug 2022	18	13.33	85.74	7.0	33.41	8.0	25.1	3.21

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I40	02 Aug 2022	1	16.85	58.29	8.6	33.43	8.1	24.3	3.49
I40	02 Aug 2022	2	16.77	60.28	8.3	33.43	8.1	24.4	3.76
I40	02 Aug 2022	3	16.03	63.01	8.0	33.43	8.1	24.5	4.09
I40	02 Aug 2022	4	15.67	66.86	8.0	33.44	8.1	24.6	4.33
I40	02 Aug 2022	5	15.60	70.38	8.0	33.43	8.1	24.6	4.68
I40	02 Aug 2022	6	15.31	72.89	7.8	33.44	8.1	24.7	4.43
I40	02 Aug 2022	7	15.27	73.57	7.7	33.44	8.0	24.7	3.97
I40	02 Aug 2022	8	15.29	68.70	7.6	33.43	8.0	24.7	3.92
I40	02 Aug 2022	9	15.26	66.12	7.6	33.44	8.0	24.7	3.92
I40	02 Aug 2022	10	15.25	62.57	7.5	33.44	8.0	24.7	3.81
I40	08 Aug 2022	1	17.36	83.43	7.9	33.47	8.1	24.2	0.84
I40	08 Aug 2022	2	17.02	83.25	7.7	33.43	8.1	24.3	1.04
I40	08 Aug 2022	3	16.24	77.37	7.5	33.38	8.1	24.4	2.36
I40	08 Aug 2022	4	15.87	66.68	7.2	33.33	8.0	24.5	4.49
I40	08 Aug 2022	5	15.11	59.66	6.8	33.35	8.0	24.7	5.06
I40	08 Aug 2022	6	14.78	58.06	6.9	33.39	8.0	24.8	5.05
I40	08 Aug 2022	7	14.71	59.55	7.0	33.38	8.0	24.8	5.50
I40	08 Aug 2022	8	14.12	59.06	6.9	33.42	8.0	24.9	5.52
I40	08 Aug 2022	9	13.97	59.56	6.7	33.42	7.9	25.0	4.93
I40	08 Aug 2022	10	13.90	61.64	6.6	33.43	7.9	25.0	4.41
I40	15 Aug 2022	1	20.65	74.84	8.2	33.51	8.2	23.5	1.50
I40	15 Aug 2022	2	20.06	75.26	7.9	33.49	8.2	23.6	1.57
I40	15 Aug 2022	3	18.46	70.72	7.8	33.48	8.1	24.0	2.33
I40	15 Aug 2022	4	16.63	70.08	7.6	33.46	8.1	24.4	2.86
I40	15 Aug 2022	5	16.32	74.41	7.1	33.45	8.0	24.5	3.22
I40	15 Aug 2022	6	14.21	72.08	6.5	33.45	8.0	24.9	4.13
I40	15 Aug 2022	7	13.77	74.53	6.5	33.42	8.0	25.0	4.27
I40	15 Aug 2022	8	13.77	73.58	6.6	33.42	8.0	25.0	4.91
I40	15 Aug 2022	9	13.65	71.64	6.4	33.43	8.0	25.0	5.78
I40	15 Aug 2022	10	13.62	65.56	6.2	33.43	7.9	25.1	6.18
I40	23 Aug 2022	1	20.49	67.37	8.1	33.55	8.2	23.5	5.26
I40	23 Aug 2022	2	20.09	67.94	7.8	33.53	8.2	23.6	6.61
I40	23 Aug 2022	3	18.94	66.70	7.6	33.50	8.1	23.9	10.39
I40	23 Aug 2022	4	18.30	64.21	7.3	33.47	8.1	24.0	12.92
I40	23 Aug 2022	5	17.80	63.55	7.1	33.44	8.1	24.1	12.85
I40	23 Aug 2022	6	16.87	63.87	6.7	33.43	8.0	24.3	11.94
I40	23 Aug 2022	7	15.93	64.43	6.2	33.41	7.9	24.5	10.68
I40	23 Aug 2022	8	15.52	70.69	6.0	33.41	7.9	24.6	8.20
I40	23 Aug 2022	9	15.43	73.71	5.8	33.40	7.9	24.6	6.69
I40	23 Aug 2022	10	14.85	65.63	5.6	33.44	7.8	24.8	7.04
I40	30 Aug 2022	1	18.02	69.96	7.2	33.47	8.1	24.1	1.30
I40	30 Aug 2022	2	17.24	70.08	6.7	33.41	8.1	24.2	1.44
I40	30 Aug 2022	3	15.95	68.83	6.2	33.43	8.0	24.5	2.17
I40	30 Aug 2022	4	15.14	75.28	5.6	33.42	7.9	24.7	2.13
I40	30 Aug 2022	5	14.93	78.08	5.2	33.42	7.9	24.8	2.17
I40	30 Aug 2022	6	14.67	77.78	5.1	33.42	7.8	24.8	2.77
I40	30 Aug 2022	7	14.59	77.65	5.0	33.42	7.8	24.8	3.87
I40	30 Aug 2022	8	14.37	77.97	5.2	33.41	7.8	24.9	4.02
I40	30 Aug 2022	9	14.20	79.04	5.4	33.42	7.9	24.9	3.58
I40	30 Aug 2022	10	14.17	77.05	5.4	33.42	7.9	24.9	2.84

NA = not available

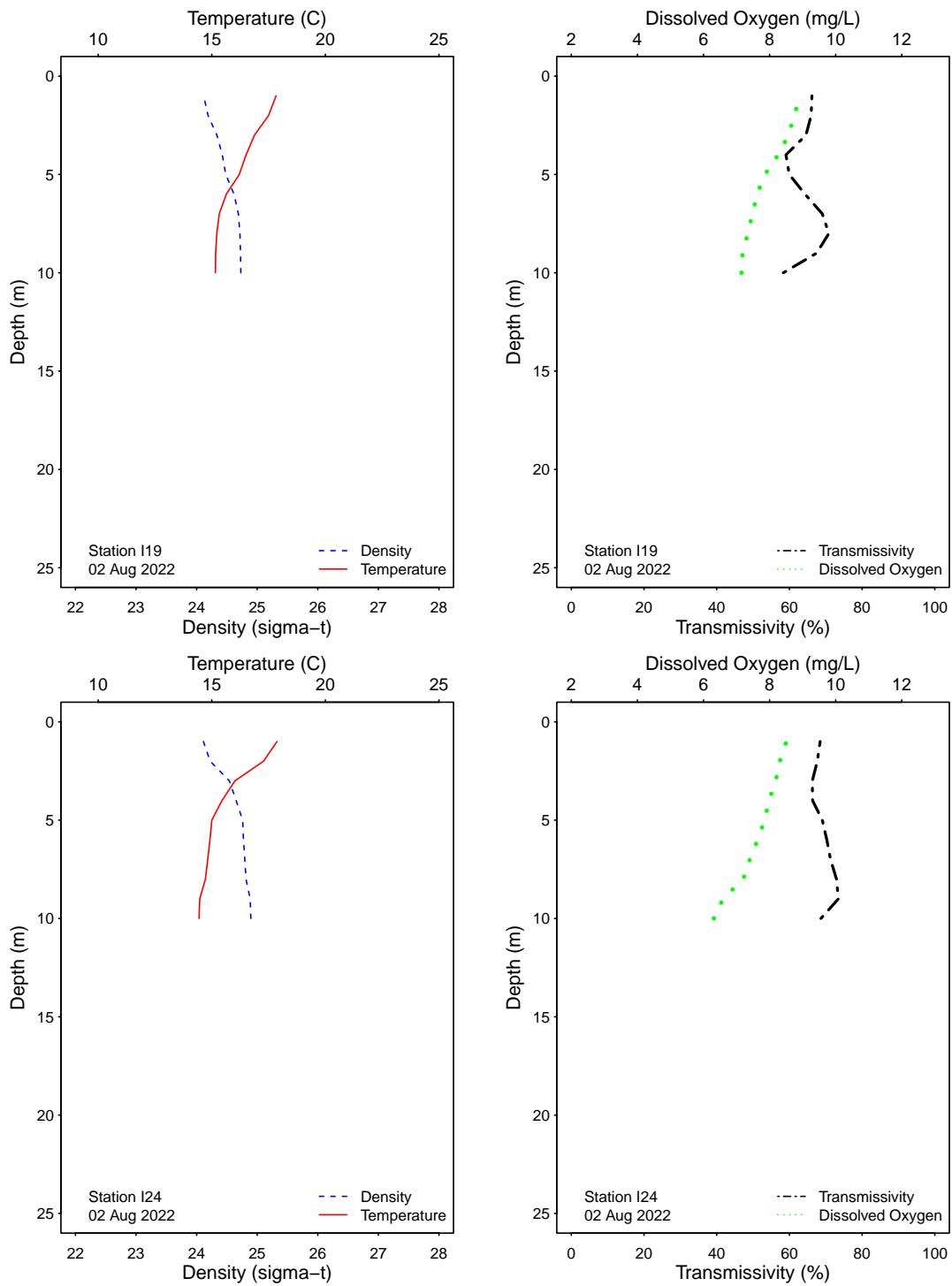


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

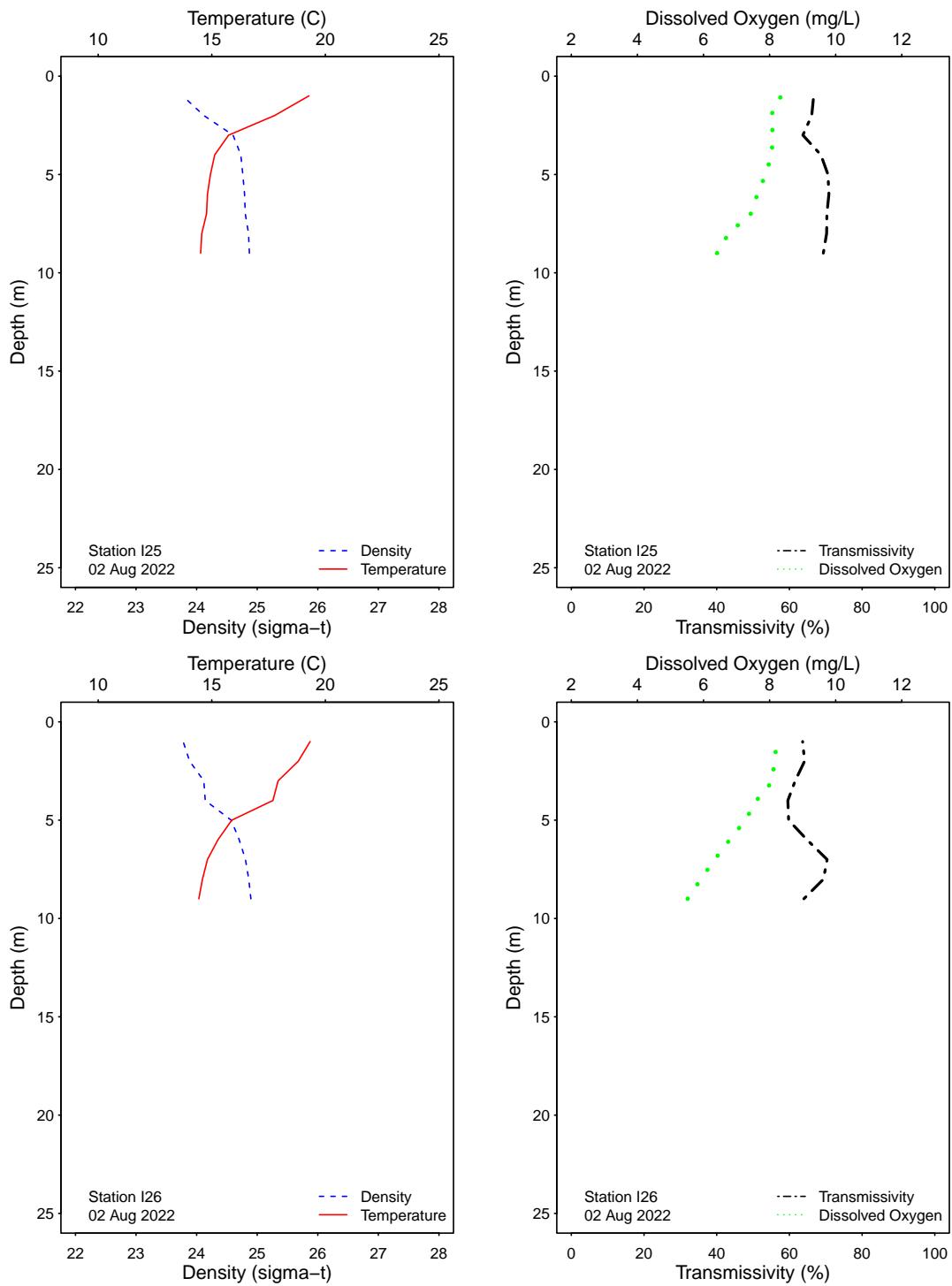


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

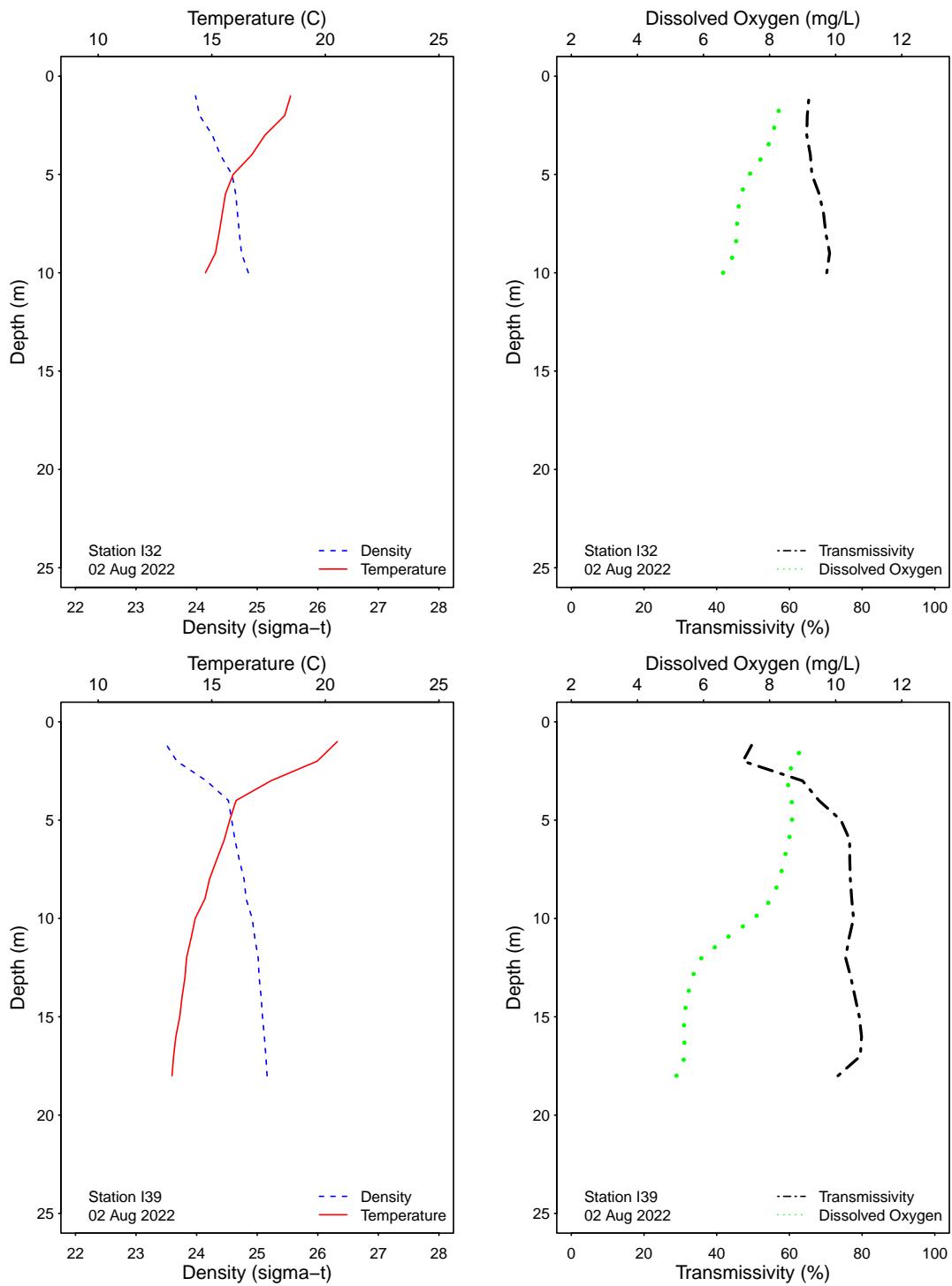


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

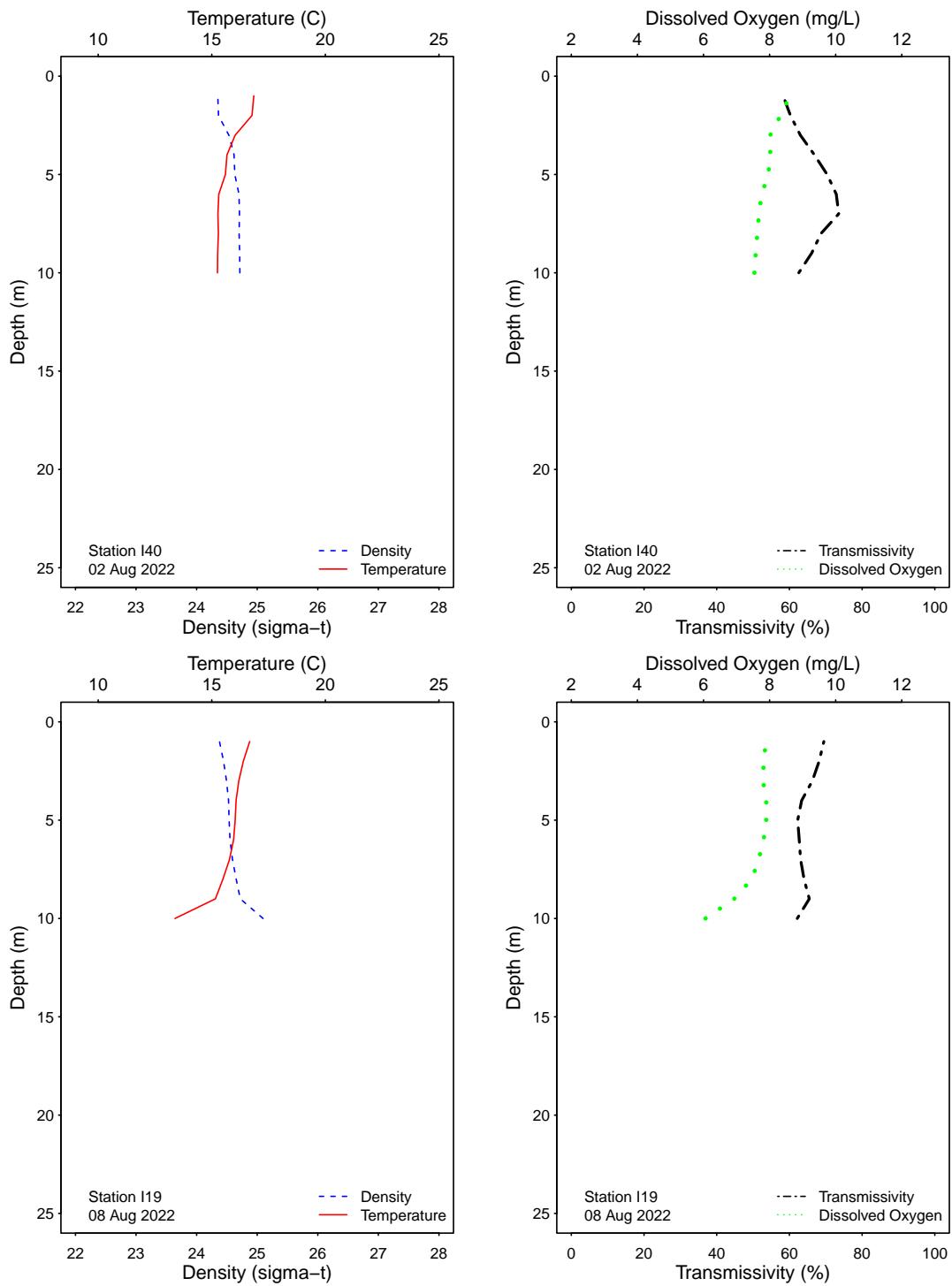


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

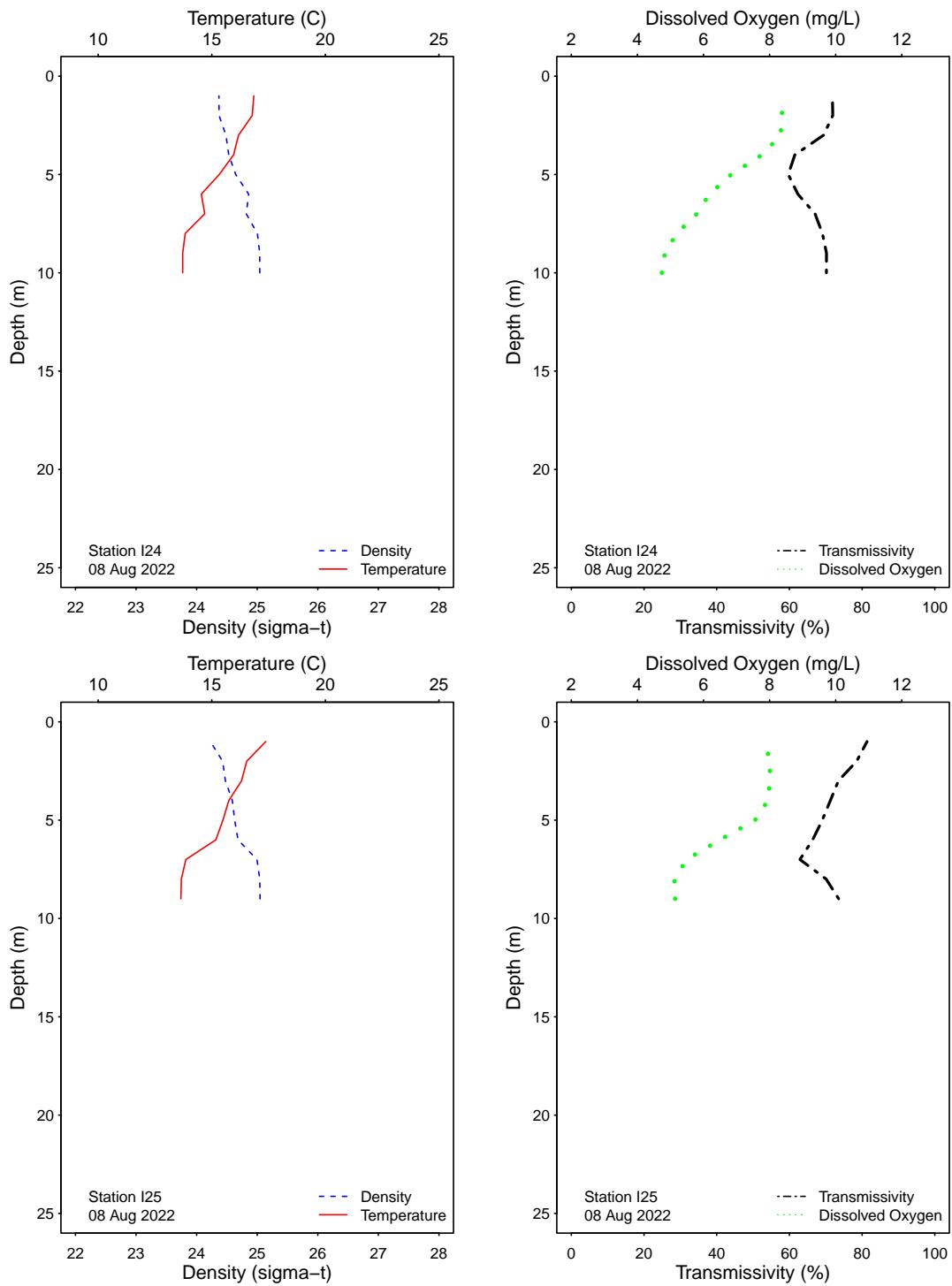


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

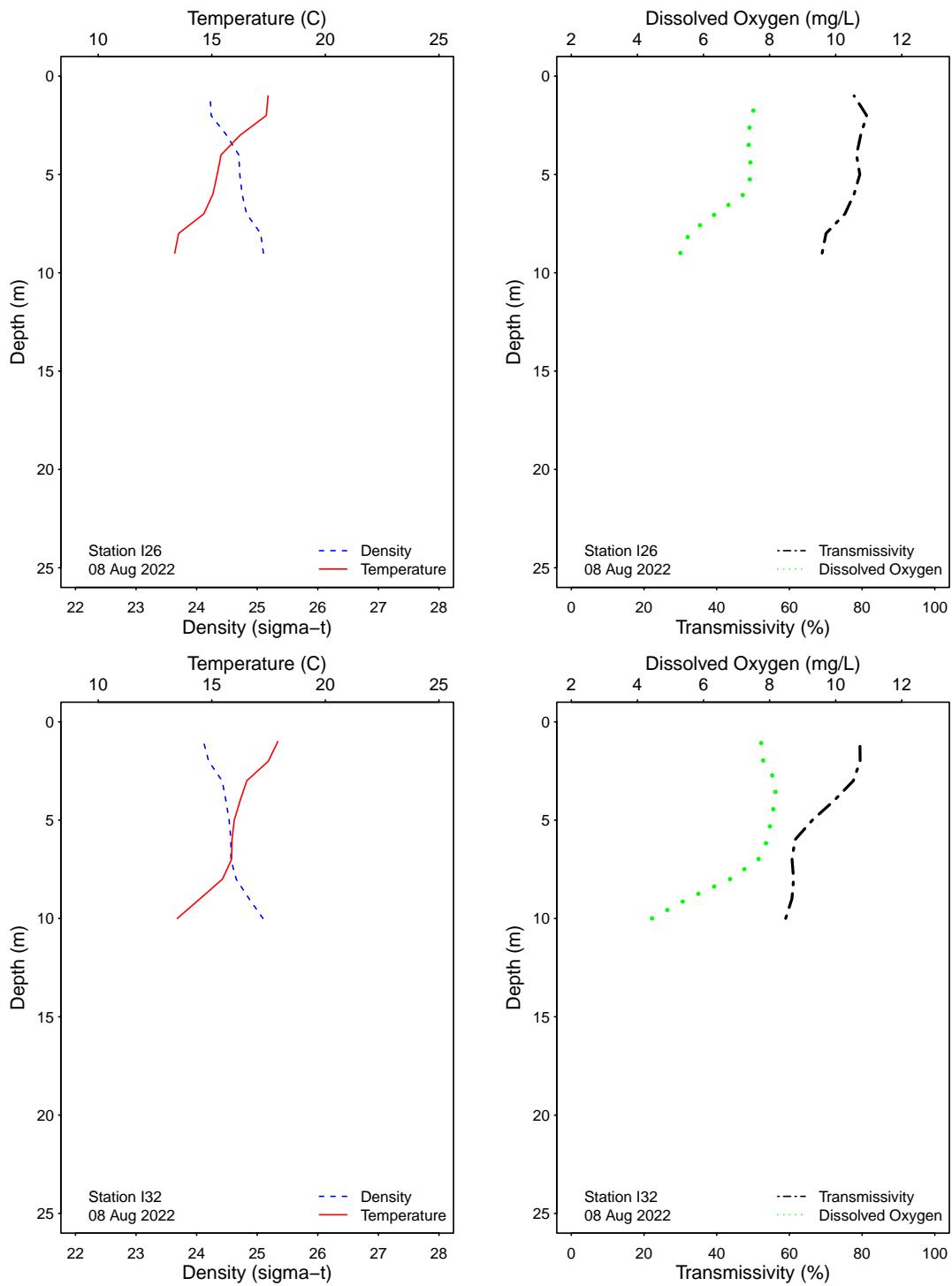


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

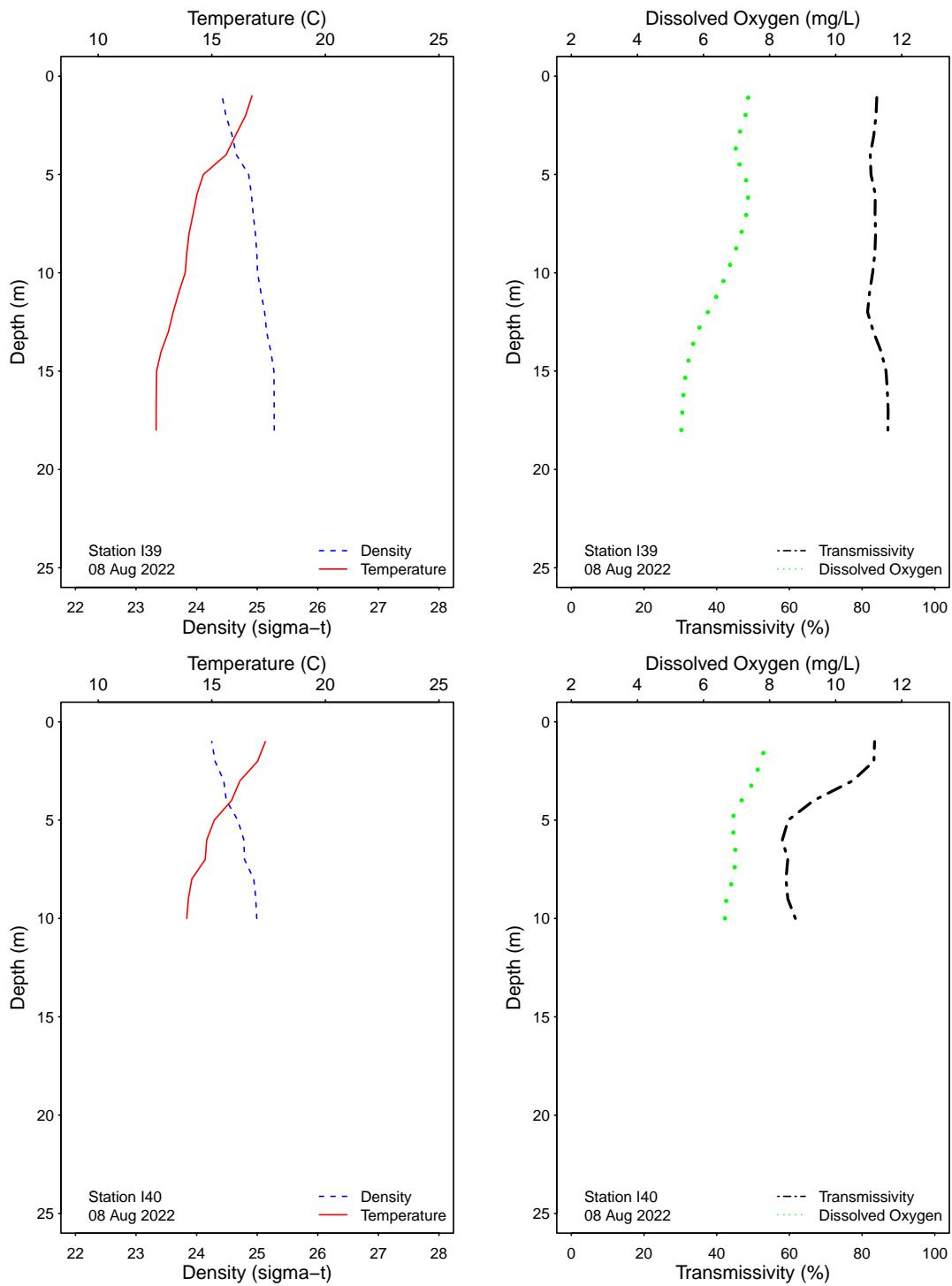


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

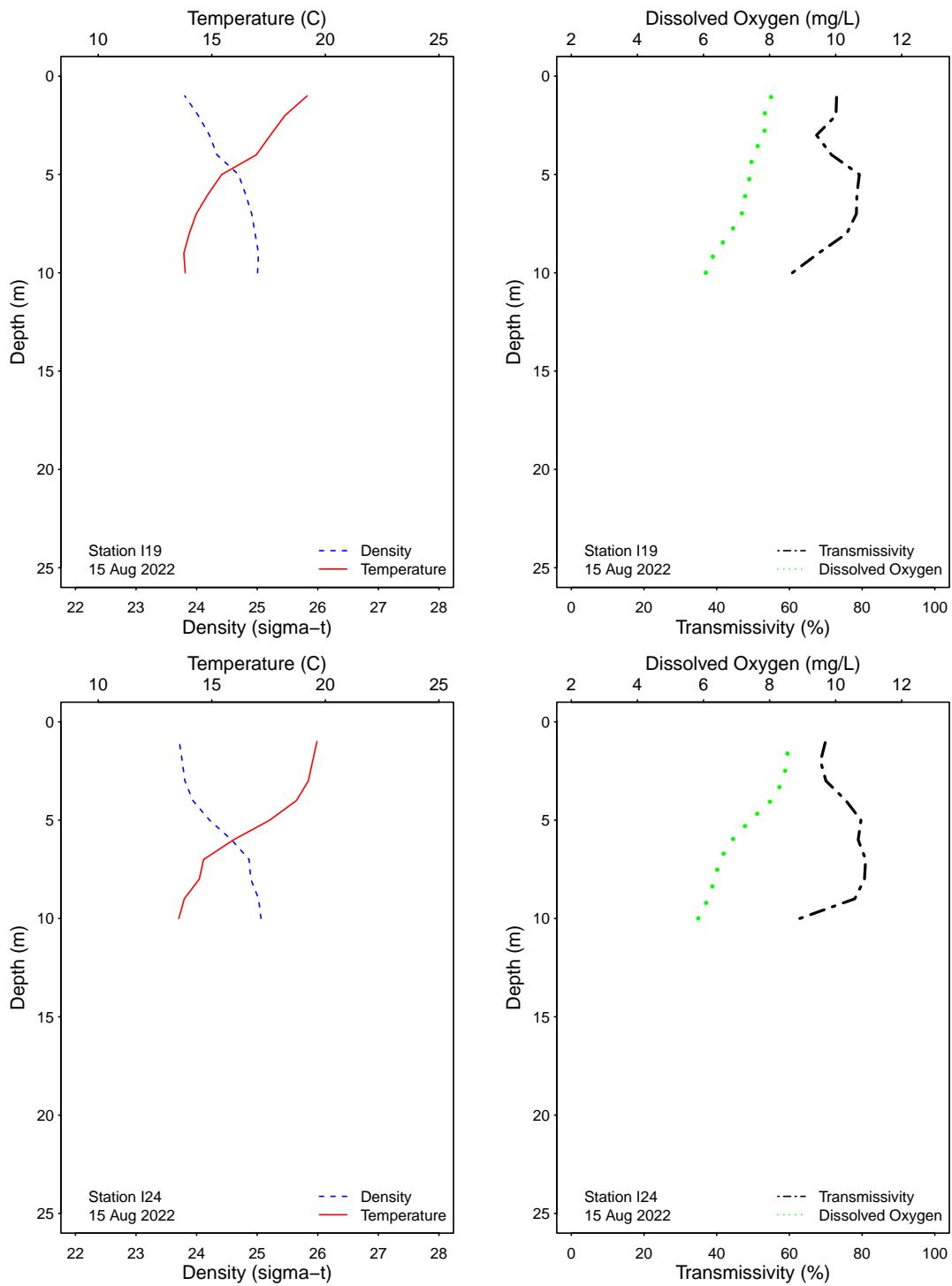


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

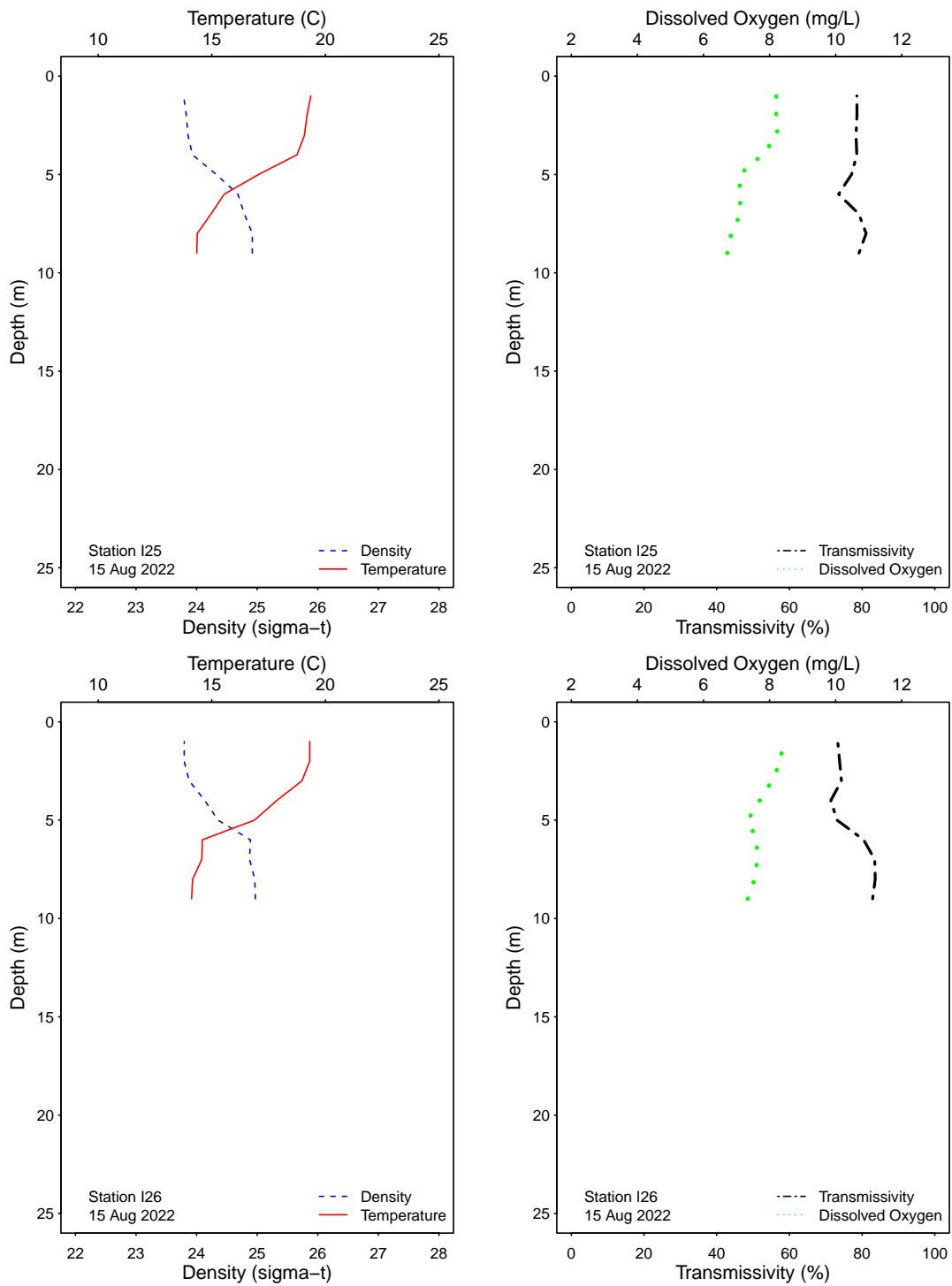


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

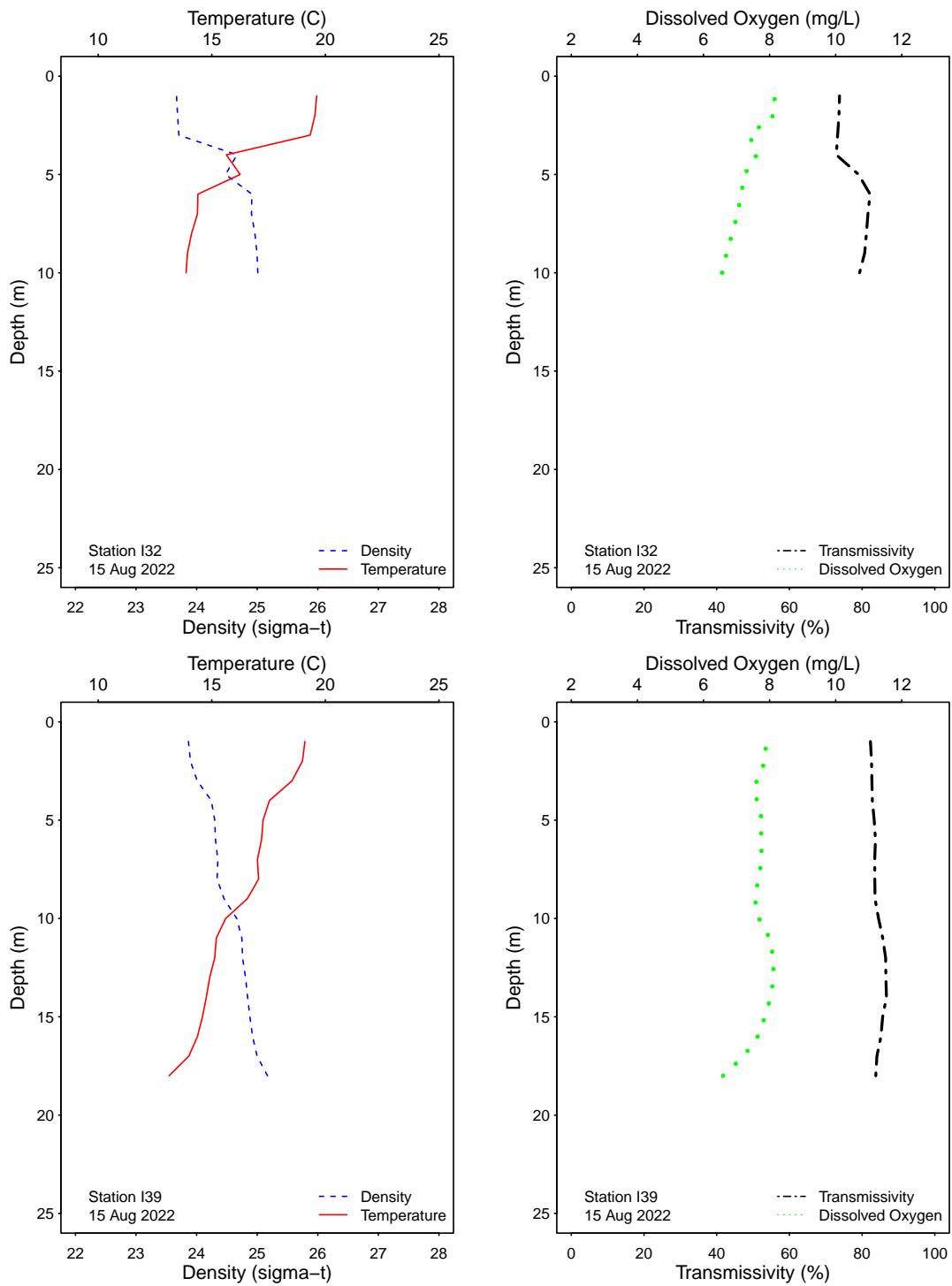


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

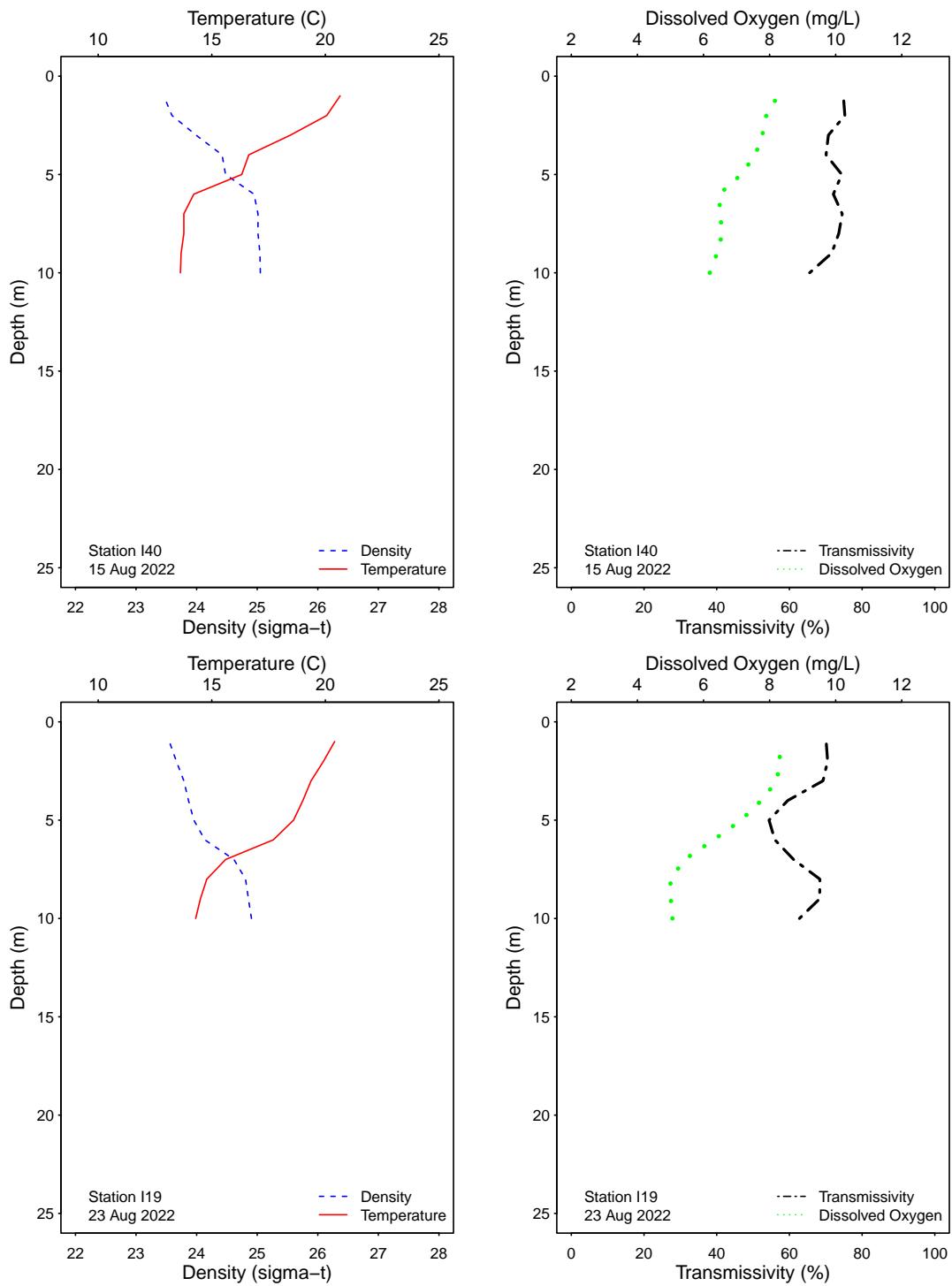


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

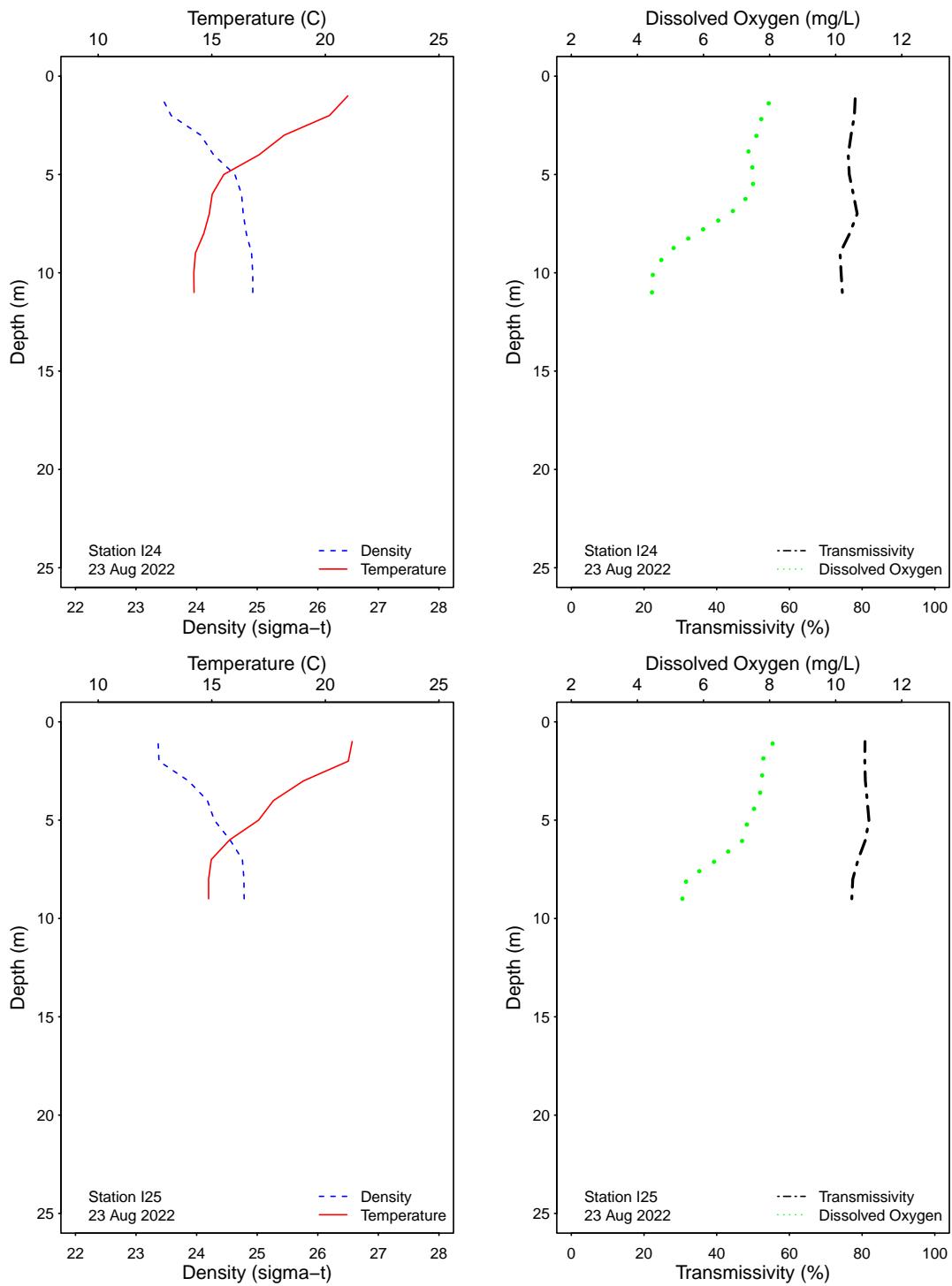


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

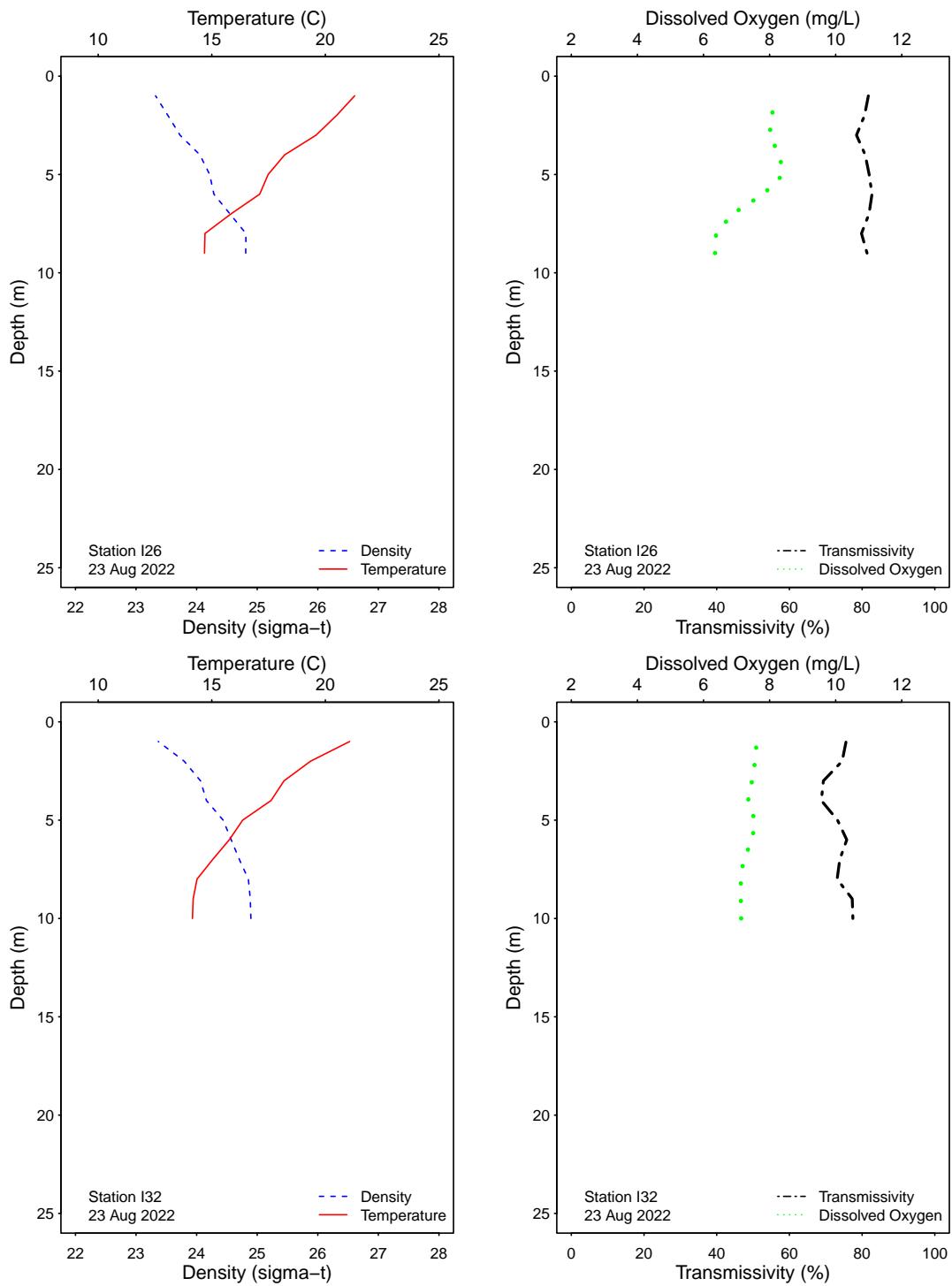


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

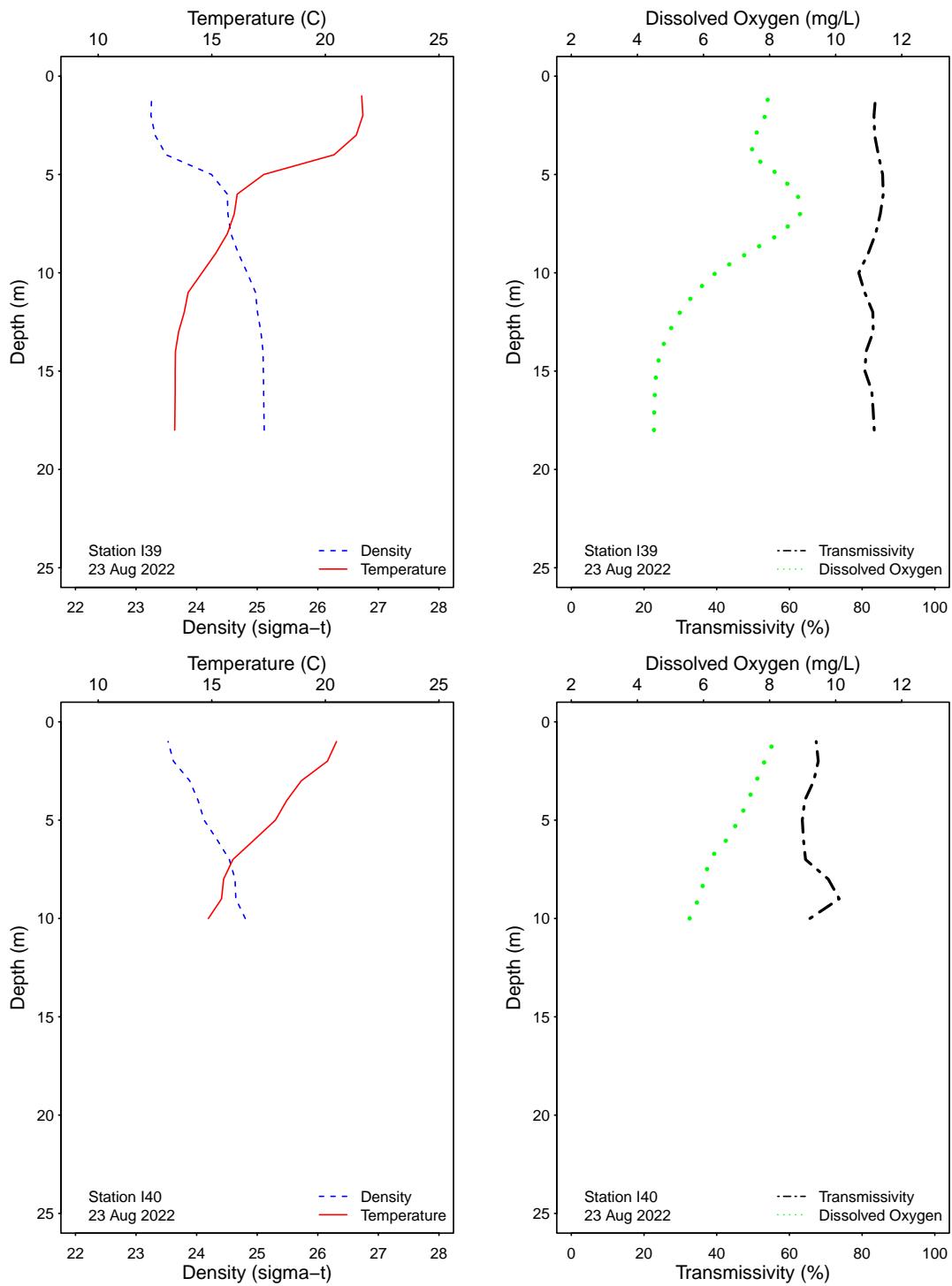


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

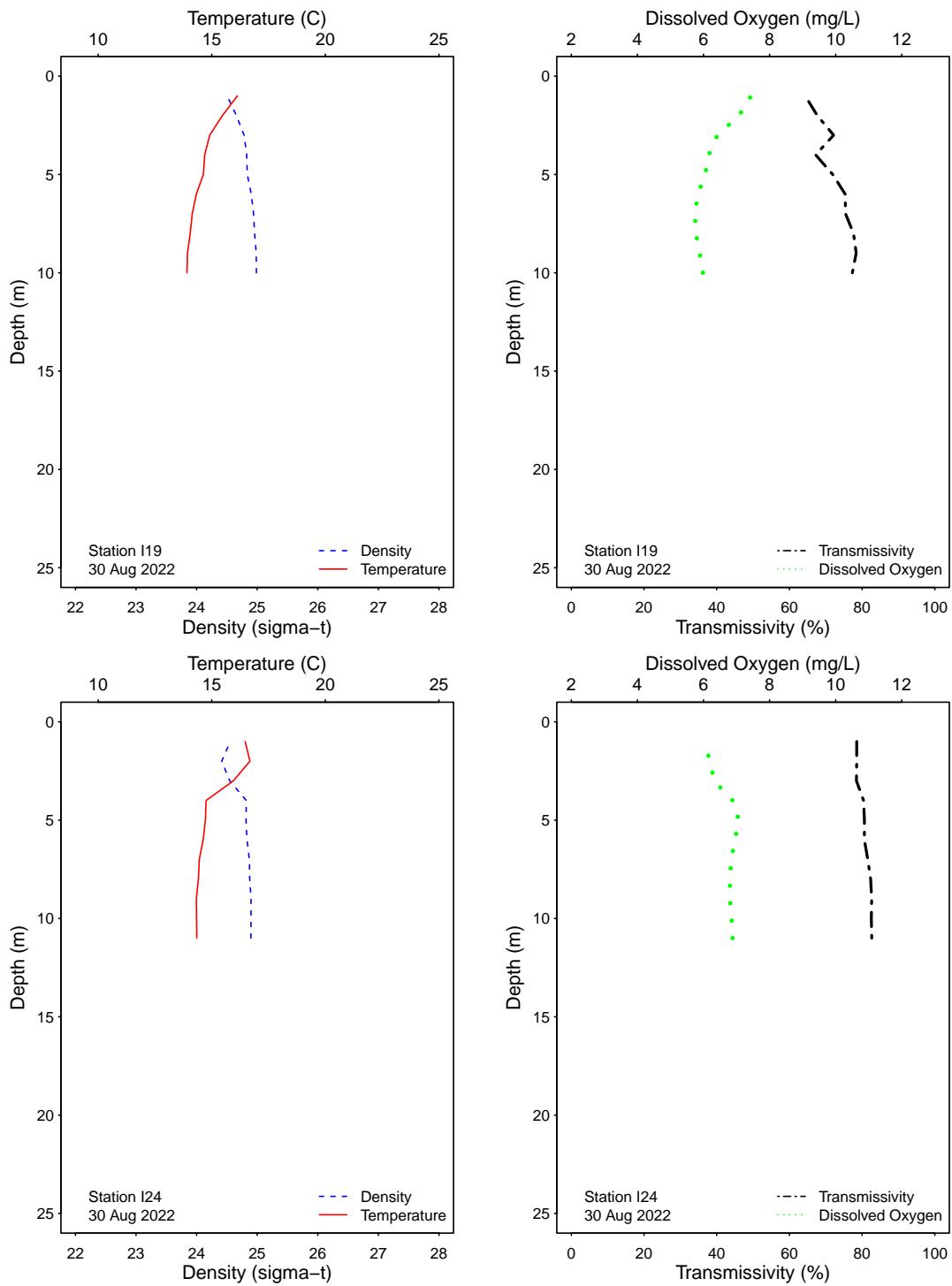


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

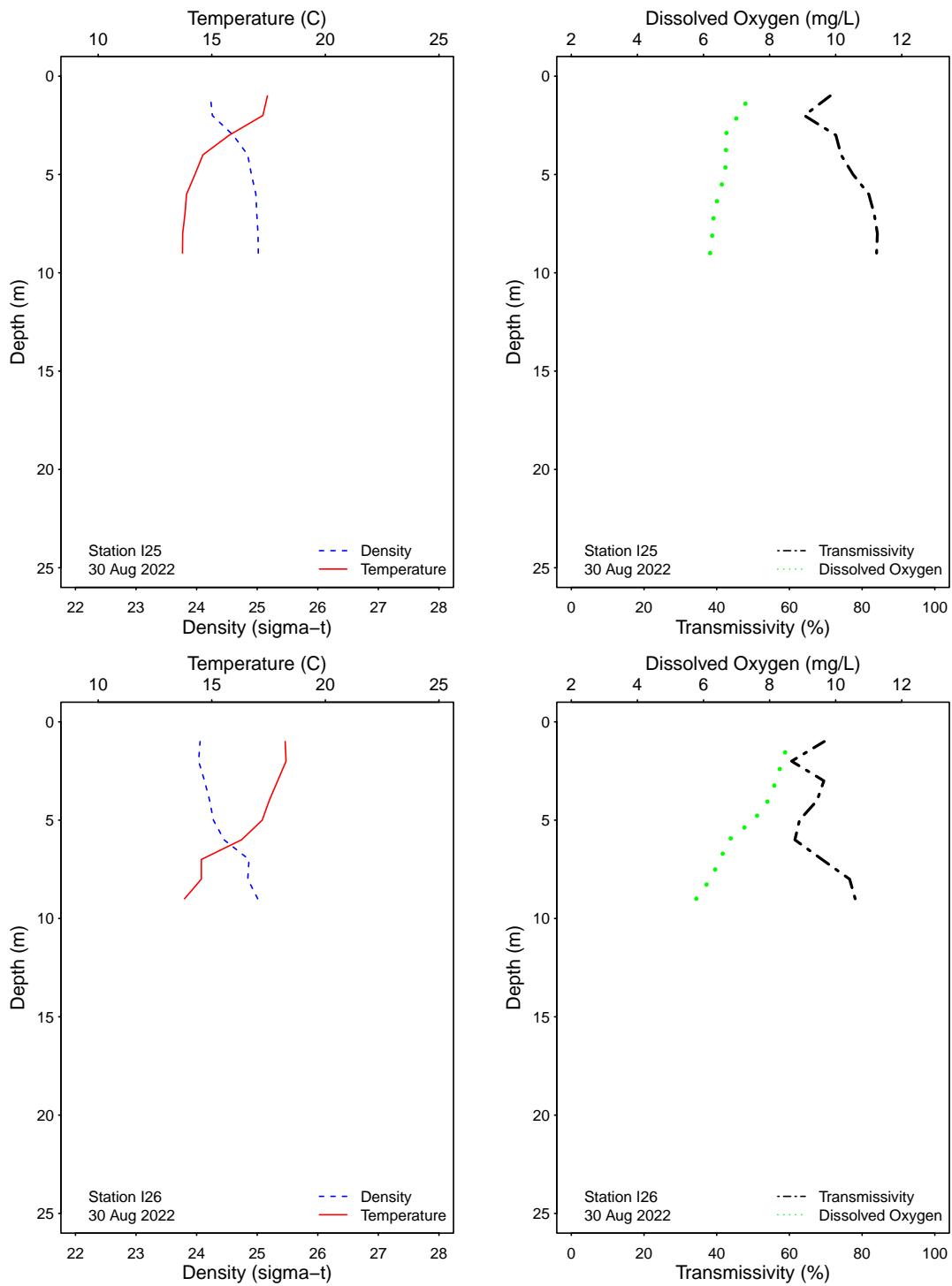


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

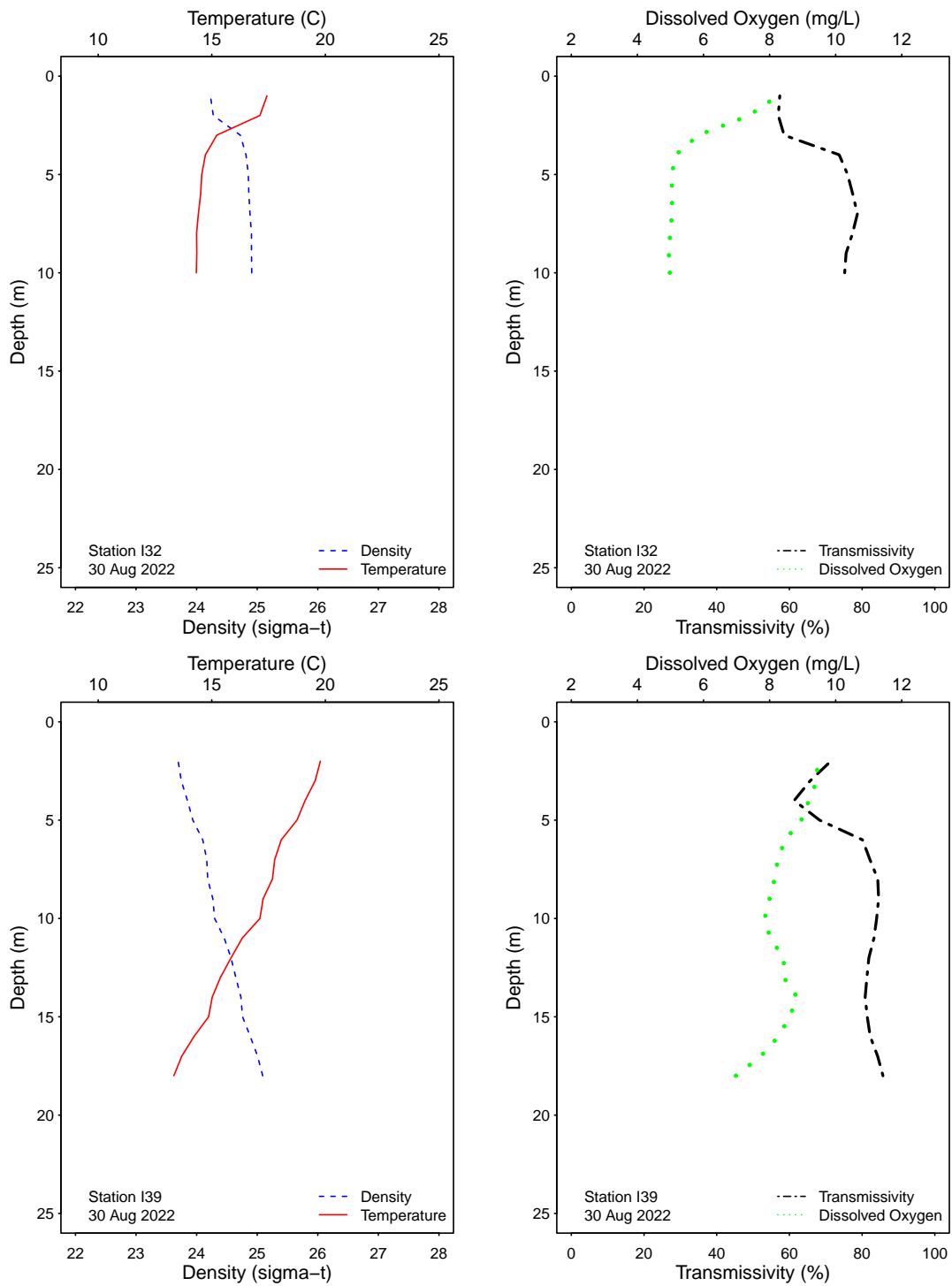


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

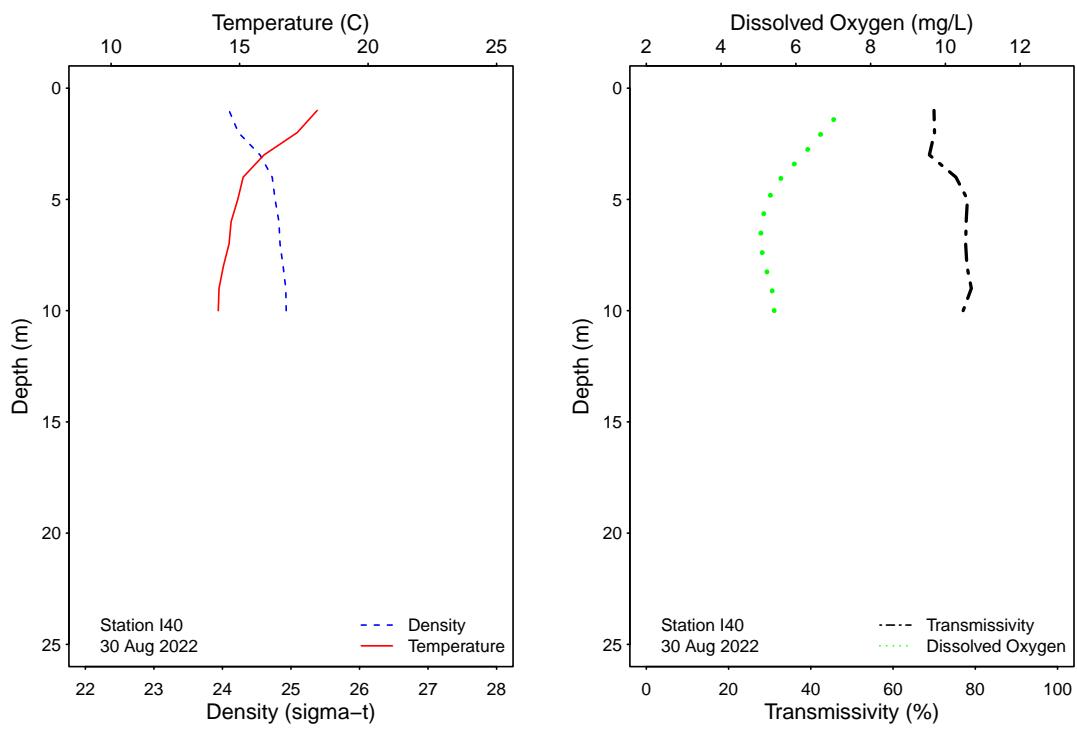


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.



# Offshore Stations



**Table 4.1**

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

date	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
09 Aug 2022	E	IC	E	IC	IC	IC	ns	ns	ns	ns
10 Aug 2022	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 Statistical Threshold Value standard for *Enterococcus* bacteria at the SBOO offshore stations within State jurisdictional waters. *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

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

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 4.3**

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

Date	12	14	16	18	20	22	23	25	27	29	31	33	35	37	38
August	2m	18m	27m	2m	18m	27m	2m	18m	27m	2m	18m	2m	6m	11m	2m
	IC	E	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 4.4**

Summary of water quality parameters at the SBOO offshore stations for each sample date. Densities of total coliform (Total), fecal coliform (Fecal), and *Enterococcus* (Enter) bacteria are reported as CFU/100 mL; 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	Temp	XMS	DO	Sal	pH
I10	11 Aug 2022	1125	2	<2	<2	<2	19.3	86.79	7.5	33.49	8.1
I10	11 Aug 2022	1125	12	8e	<2	4e	14.8	90.24	8.1	33.45	8.1
I10	11 Aug 2022	1125	18	<2	<2	<2	13.0	80.09	5.9	33.45	7.9
I11	11 Aug 2022	1112	2	<2	<2	2e	20.2	81.45	8.0	33.50	8.1
I11	11 Aug 2022	1112	6	<2	<2	<2	17.7	87.22	7.9	33.48	8.1
I11	11 Aug 2022	1112	11	<2	<2	<2	13.5	84.24	6.4	33.43	8.0
I12	09 Aug 2022	1130	2	<2	<2	<2	20.1	85.86	7.8	33.53	8.2
I12	09 Aug 2022	1130	18	4200	1100	540	12.8	88.49	6.1	33.39	8.0
I12	09 Aug 2022	1130	27	40e	8e	2e	12.0	89.03	5.1	33.49	7.9
I13	09 Aug 2022	1225	2	<2	<2	<2	20.7	88.76	7.7	33.55	8.2
I13	09 Aug 2022	1225	18	<2	<2	<2	13.8	87.95	8.0	33.42	8.1
I13	09 Aug 2022	1225	37	<2	<2	<2	11.8	90.03	5.2	33.52	7.9
I14	09 Aug 2022	1240	2	<2	<2	<2	18.9	87.68	7.7	33.50	8.2
I14	09 Aug 2022	1240	18	<2	2e	<2	12.6	88.15	6.2	33.45	8.0
I14	09 Aug 2022	1240	27	<20	<2	<2	12.1	88.85	5.0	33.49	7.8
I16	09 Aug 2022	1120	2	<2	<2	<2	19.0	87.51	8.0	33.51	8.2
I16	09 Aug 2022	1120	18	9000	2800e	1000e	12.5	88.70	5.6	33.30	7.9
I16	09 Aug 2022	1120	27	340e	180e	56	12.1	89.02	5.1	33.48	7.8
I18	09 Aug 2022	1059	2	<2	<2	<2	18.2	87.38	7.7	33.50	8.1
I18	09 Aug 2022	1059	12	<20	2e	<2	13.6	83.07	6.7	33.43	8.0
I18	09 Aug 2022	1059	18	<2	<2	<2	12.4	87.59	5.3	33.46	7.9
I20	09 Aug 2022	929	2	<2	<2	<2	21.5	89.43	7.5	33.59	8.2
I20	09 Aug 2022	929	18	<2	<2	<2	14.5	85.68	8.4	33.46	8.1
I20	09 Aug 2022	929	55	2e	<2	<2	10.7	91.24	4.4	33.69	7.8
I21	09 Aug 2022	947	2	<2	<2	<2	20.1	88.22	7.9	33.54	8.2
I21	09 Aug 2022	947	18	<2	<2	<2	12.9	87.71	7.0	33.44	8.0
I21	09 Aug 2022	947	37	<2	<2	<2	11.7	90.54	4.9	33.53	7.8
I22	09 Aug 2022	1033	2	<2	<2	<2	18.8	87.89	8.0	33.52	8.1
I22	09 Aug 2022	1033	18	<2	<2	<2	12.7	87.55	6.3	33.45	8.0
I22	09 Aug 2022	1033	27	<2	<2	<2	12.1	88.97	5.0	33.48	7.8
I23	09 Aug 2022	1045	2	<2	<2	<2	18.1	87.73	7.8	33.49	8.1
I23	09 Aug 2022	1045	12	100e	10e	<2	14.4	85.94	7.2	33.43	8.0
I23	09 Aug 2022	1045	18	6e	<2	<2	13.4	83.67	6.4	33.43	8.0
I3	11 Aug 2022	1014	2	<2	<2	<2	20.6	88.38	7.9	33.53	8.2
I3	11 Aug 2022	1014	18	<2	<2	<2	13.6	87.43	7.3	33.42	8.0
I3	11 Aug 2022	1014	27	<2	<2	<2	12.4	86.78	5.4	33.48	7.9
I30	10 Aug 2022	906	2	<20	<2	<2	16.2	76.83	6.8	33.49	8.0
I30	10 Aug 2022	906	18	<2	<2	<2	12.2	90.18	5.5	33.47	7.9
I30	10 Aug 2022	906	27	<2	<2	<2	12.1	89.40	4.8	33.49	7.8

Station	Date	Time	Depth	Total	Fecal	Enterο	Temp	XMS	DO	Sal	pH
I33	10 Aug 2022	813	2	<20	<2	<2	19.4	83.45	7.6	33.50	8.1
I33	10 Aug 2022	813	18	<2	<2	<2	12.6	89.58	5.9	33.46	7.9
I33	10 Aug 2022	813	27	<2	<2	<2	12.2	90.43	5.4	33.49	7.8
I36	10 Aug 2022	940	2	<20	<2	<2	19.2	80.45	8.2	33.47	8.1
I36	10 Aug 2022	940	6	<20	<2	<2	15.0	72.16	7.8	33.44	8.1
I36	10 Aug 2022	940	11	200e	<2	<2	13.5	58.89	3.4	33.44	7.7
I37	10 Aug 2022	747	2	<20	2e	<2	15.6	78.02	6.6	33.51	7.9
I37	10 Aug 2022	747	6	<2	<2	<2	14.3	81.32	6.6	33.47	7.9
I37	10 Aug 2022	747	11	2e	<2	<2	13.3	85.96	6.2	33.47	7.9
I38	10 Aug 2022	1010	2	<20	<2	<2	19.3	67.48	8.1	33.47	8.1
I38	10 Aug 2022	1010	6	<20	<2	<2	16.1	75.58	8.2	33.43	8.1
I38	10 Aug 2022	1010	11	<2	<2	<2	13.8	75.22	4.7	33.44	7.9
I5	11 Aug 2022	1038	2	2e	<2	14e	19.3	83.30	7.9	33.50	8.1
I5	11 Aug 2022	1038	6	120e	4e	50	17.5	75.48	7.4	33.45	8.1
I5	11 Aug 2022	1038	11	560	34e	62	13.9	69.55	5.6	33.43	7.9
I7	11 Aug 2022	855	2	<2	<2	<2	22.4	90.74	7.2	33.63	8.2
I7	11 Aug 2022	855	18	<2	<2	<2	13.7	83.12	7.8	33.43	8.1
I7	11 Aug 2022	855	52	<2	<2	<2	11.2	91.33	4.9	33.60	7.8
I8	11 Aug 2022	1155	2	<2	<2	<2	20.1	89.41	7.9	33.55	8.2
I8	11 Aug 2022	1155	18	14e	<2	<2	13.7	88.00	8.1	33.42	8.1
I8	11 Aug 2022	1155	37	<2	<2	<2	12.1	89.68	5.3	33.50	7.9
I9	11 Aug 2022	1139	2	<2	<2	<2	19.6	85.00	8.0	33.52	8.2
I9	11 Aug 2022	1139	18	2e	<2	2e	13.0	84.26	6.8	33.42	8.0
I9	11 Aug 2022	1139	27	2e	<2	<2	12.3	87.56	5.1	33.48	7.8

ns = not sampled

ND = no data

**Table 4.5**

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

Station	Date	Parameter	Value
I1	11 Aug 2022	Depth (m)	63
I1	11 Aug 2022	Arrive Time	921
I1	11 Aug 2022	Depart Time	928
I1	11 Aug 2022	Air Temp (C)	22.1
I1	11 Aug 2022	Weather	Clear
I1	11 Aug 2022	Visibility (mi)	11
I1	11 Aug 2022	Wind Speed (kts)	7.8
I1	11 Aug 2022	Wind Dir	N
I1	11 Aug 2022	Water Color	Blue
I1	11 Aug 2022	Wave Ht Low (ft)	3
I1	11 Aug 2022	Wave Period (sec)	9
I1	11 Aug 2022	Sea State	Calm
I1	11 Aug 2022	High Tide (ft)	7.08
I1	11 Aug 2022	High Tide Time	418
I1	11 Aug 2022	Low Tide (ft)	-1.36
I1	11 Aug 2022	Low Tide Time	1042
I1	11 Aug 2022	Comments	none
I10	11 Aug 2022	Depth (m)	22
I10	11 Aug 2022	Arrive Time	1125
I10	11 Aug 2022	Depart Time	1130
I10	11 Aug 2022	Air Temp (C)	20.8
I10	11 Aug 2022	Weather	Partly Cloudy
I10	11 Aug 2022	Visibility (mi)	12
I10	11 Aug 2022	Wind Speed (kts)	2.7
I10	11 Aug 2022	Wind Dir	E
I10	11 Aug 2022	Water Color	Green
I10	11 Aug 2022	Wave Ht Low (ft)	3
I10	11 Aug 2022	Wave Period (sec)	9
I10	11 Aug 2022	Sea State	Calm
I10	11 Aug 2022	High Tide (ft)	7.08
I10	11 Aug 2022	High Tide Time	418
I10	11 Aug 2022	Low Tide (ft)	-1.36
I10	11 Aug 2022	Low Tide Time	1042
I10	11 Aug 2022	Comments	none
I11	11 Aug 2022	Depth (m)	14
I11	11 Aug 2022	Arrive Time	1112
I11	11 Aug 2022	Depart Time	1118
I11	11 Aug 2022	Air Temp (C)	21.1
I11	11 Aug 2022	Weather	Partly Cloudy
I11	11 Aug 2022	Visibility (mi)	12
I11	11 Aug 2022	Wind Speed (kts)	2.7
I11	11 Aug 2022	Wind Dir	NE
I11	11 Aug 2022	Water Color	Green
I11	11 Aug 2022	Wave Ht Low (ft)	3
I11	11 Aug 2022	Wave Period (sec)	9
I11	11 Aug 2022	Sea State	Calm
I11	11 Aug 2022	High Tide (ft)	7.08
I11	11 Aug 2022	High Tide Time	418
I11	11 Aug 2022	Low Tide (ft)	-1.36
I11	11 Aug 2022	Low Tide Time	1042
I11	11 Aug 2022	Comments	none
I12	09 Aug 2022	Depth (m)	29
I12	09 Aug 2022	Arrive Time	1130

Station	Date	Parameter	Value
I12	09 Aug 2022	Depart Time	1145
I12	09 Aug 2022	Air Temp (C)	21.9
I12	09 Aug 2022	Weather	Haze
I12	09 Aug 2022	Visibility (mi)	8
I12	09 Aug 2022	Wind Speed (kts)	4.3
I12	09 Aug 2022	Wind Dir	SW
I12	09 Aug 2022	Water Color	Blueish-Green
I12	09 Aug 2022	Wave Ht Low (ft)	3.3
I12	09 Aug 2022	Wave Period (sec)	7
I12	09 Aug 2022	Sea State	Wind Ripples
I12	09 Aug 2022	High Tide (ft)	6.8
I12	09 Aug 2022	High Tide Time	236
I12	09 Aug 2022	Low Tide (ft)	-0.82
I12	09 Aug 2022	Low Tide Time	918
I12	09 Aug 2022	Comments	none
I13	09 Aug 2022	Depth (m)	38
I13	09 Aug 2022	Arrive Time	1225
I13	09 Aug 2022	Depart Time	1240
I13	09 Aug 2022	Air Temp (C)	22.2
I13	09 Aug 2022	Weather	Haze
I13	09 Aug 2022	Visibility (mi)	8
I13	09 Aug 2022	Wind Speed (kts)	7.5
I13	09 Aug 2022	Wind Dir	W
I13	09 Aug 2022	Water Color	Blueish-Green
I13	09 Aug 2022	Wave Ht Low (ft)	3.3
I13	09 Aug 2022	Wave Period (sec)	7
I13	09 Aug 2022	Sea State	Wind Ripples
I13	09 Aug 2022	High Tide (ft)	6.8
I13	09 Aug 2022	High Tide Time	236
I13	09 Aug 2022	Low Tide (ft)	-0.82
I13	09 Aug 2022	Low Tide Time	918
I13	09 Aug 2022	Comments	none
I14	09 Aug 2022	Depth (m)	28
I14	09 Aug 2022	Arrive Time	1240
I14	09 Aug 2022	Depart Time	1246
I14	09 Aug 2022	Air Temp (C)	22.1
I14	09 Aug 2022	Weather	Haze
I14	09 Aug 2022	Visibility (mi)	8
I14	09 Aug 2022	Wind Speed (kts)	5.9
I14	09 Aug 2022	Wind Dir	W
I14	09 Aug 2022	Water Color	Blueish-Green
I14	09 Aug 2022	Wave Ht Low (ft)	3.3
I14	09 Aug 2022	Wave Period (sec)	7
I14	09 Aug 2022	Sea State	Wind Ripples
I14	09 Aug 2022	High Tide (ft)	6.8
I14	09 Aug 2022	High Tide Time	236
I14	09 Aug 2022	Low Tide (ft)	-0.82
I14	09 Aug 2022	Low Tide Time	918
I14	09 Aug 2022	Comments	none
I15	09 Aug 2022	Depth (m)	32
I15	09 Aug 2022	Arrive Time	1208
I15	09 Aug 2022	Depart Time	1214
I15	09 Aug 2022	Air Temp (C)	22.1
I15	09 Aug 2022	Weather	Haze
I15	09 Aug 2022	Visibility (mi)	8
I15	09 Aug 2022	Wind Speed (kts)	4.5
I15	09 Aug 2022	Wind Dir	W
I15	09 Aug 2022	Water Color	Blueish-Green

Station	Date	Parameter	Value
I15	09 Aug 2022	Wave Ht Low (ft)	3.3
I15	09 Aug 2022	Wave Period (sec)	7
I15	09 Aug 2022	Sea State	Wind Ripples
I15	09 Aug 2022	High Tide (ft)	6.8
I15	09 Aug 2022	High Tide Time	236
I15	09 Aug 2022	Low Tide (ft)	-0.82
I15	09 Aug 2022	Low Tide Time	918
I15	09 Aug 2022	Comments	none
I16	09 Aug 2022	Depth (m)	30
I16	09 Aug 2022	Arrive Time	1120
I16	09 Aug 2022	Depart Time	1126
I16	09 Aug 2022	Air Temp (C)	21.6
I16	09 Aug 2022	Weather	Haze
I16	09 Aug 2022	Visibility (mi)	8
I16	09 Aug 2022	Wind Speed (kts)	3.9
I16	09 Aug 2022	Wind Dir	W
I16	09 Aug 2022	Water Color	Blueish-Green
I16	09 Aug 2022	Wave Ht Low (ft)	3.3
I16	09 Aug 2022	Wave Period (sec)	7
I16	09 Aug 2022	Sea State	Wind Ripples
I16	09 Aug 2022	High Tide (ft)	6.8
I16	09 Aug 2022	High Tide Time	236
I16	09 Aug 2022	Low Tide (ft)	-0.82
I16	09 Aug 2022	Low Tide Time	918
I16	09 Aug 2022	Comments	none
I17	09 Aug 2022	Depth (m)	26
I17	09 Aug 2022	Arrive Time	1111
I17	09 Aug 2022	Depart Time	1117
I17	09 Aug 2022	Air Temp (C)	22.5
I17	09 Aug 2022	Weather	Haze
I17	09 Aug 2022	Visibility (mi)	8
I17	09 Aug 2022	Wind Speed (kts)	4.1
I17	09 Aug 2022	Wind Dir	W
I17	09 Aug 2022	Water Color	Blueish-Green
I17	09 Aug 2022	Wave Ht Low (ft)	3.3
I17	09 Aug 2022	Wave Period (sec)	7
I17	09 Aug 2022	Sea State	Wind Ripples
I17	09 Aug 2022	High Tide (ft)	6.8
I17	09 Aug 2022	High Tide Time	236
I17	09 Aug 2022	Low Tide (ft)	-0.82
I17	09 Aug 2022	Low Tide Time	918
I17	09 Aug 2022	Comments	none
I18	09 Aug 2022	Depth (m)	21
I18	09 Aug 2022	Arrive Time	1059
I18	09 Aug 2022	Depart Time	1104
I18	09 Aug 2022	Air Temp (C)	21.4
I18	09 Aug 2022	Weather	Haze
I18	09 Aug 2022	Visibility (mi)	8
I18	09 Aug 2022	Wind Speed (kts)	2.8
I18	09 Aug 2022	Wind Dir	SW
I18	09 Aug 2022	Water Color	Blueish-Green
I18	09 Aug 2022	Wave Ht Low (ft)	3.3
I18	09 Aug 2022	Wave Period (sec)	7
I18	09 Aug 2022	Sea State	Wind Ripples
I18	09 Aug 2022	High Tide (ft)	6.8
I18	09 Aug 2022	High Tide Time	236
I18	09 Aug 2022	Low Tide (ft)	-0.82
I18	09 Aug 2022	Low Tide Time	918

Station	Date	Parameter	Value
I18	09 Aug 2022	Comments	none
I2	11 Aug 2022	Depth (m)	34
I2	11 Aug 2022	Arrive Time	958
I2	11 Aug 2022	Depart Time	1002
I2	11 Aug 2022	Air Temp (C)	21.1
I2	11 Aug 2022	Weather	Clear
I2	11 Aug 2022	Visibility (mi)	11
I2	11 Aug 2022	Wind Speed (kts)	5.4
I2	11 Aug 2022	Wind Dir	N
I2	11 Aug 2022	Water Color	Blueish-Green
I2	11 Aug 2022	Wave Ht Low (ft)	3
I2	11 Aug 2022	Wave Period (sec)	9
I2	11 Aug 2022	Sea State	Calm
I2	11 Aug 2022	High Tide (ft)	7.08
I2	11 Aug 2022	High Tide Time	418
I2	11 Aug 2022	Low Tide (ft)	-1.36
I2	11 Aug 2022	Low Tide Time	1042
I2	11 Aug 2022	Comments	dolphins on station
I20	09 Aug 2022	Depth (m)	56
I20	09 Aug 2022	Arrive Time	929
I20	09 Aug 2022	Depart Time	946
I20	09 Aug 2022	Air Temp (C)	21.6
I20	09 Aug 2022	Weather	Partly Cloudy
I20	09 Aug 2022	Visibility (mi)	8
I20	09 Aug 2022	Wind Speed (kts)	1.2
I20	09 Aug 2022	Wind Dir	NW
I20	09 Aug 2022	Water Color	Blueish-Green
I20	09 Aug 2022	Wave Ht Low (ft)	3.3
I20	09 Aug 2022	Wave Period (sec)	7
I20	09 Aug 2022	Sea State	Calm
I20	09 Aug 2022	High Tide (ft)	6.8
I20	09 Aug 2022	High Tide Time	236
I20	09 Aug 2022	Low Tide (ft)	-0.82
I20	09 Aug 2022	Low Tide Time	918
I20	09 Aug 2022	Comments	none
I21	09 Aug 2022	Depth (m)	42
I21	09 Aug 2022	Arrive Time	947
I21	09 Aug 2022	Depart Time	959
I21	09 Aug 2022	Air Temp (C)	21.5
I21	09 Aug 2022	Weather	Partly Cloudy
I21	09 Aug 2022	Visibility (mi)	8
I21	09 Aug 2022	Wind Speed (kts)	2.5
I21	09 Aug 2022	Wind Dir	W
I21	09 Aug 2022	Water Color	Blueish-Green
I21	09 Aug 2022	Wave Ht Low (ft)	3.3
I21	09 Aug 2022	Wave Period (sec)	7
I21	09 Aug 2022	Sea State	Calm
I21	09 Aug 2022	High Tide (ft)	6.8
I21	09 Aug 2022	High Tide Time	236
I21	09 Aug 2022	Low Tide (ft)	-0.82
I21	09 Aug 2022	Low Tide Time	918
I21	09 Aug 2022	Comments	Added OA samples since 1st SBOO day per Adriano; All bottles fired on upcast; Niskin 1 leaking and not used
I22	09 Aug 2022	Depth (m)	29
I22	09 Aug 2022	Arrive Time	1033
I22	09 Aug 2022	Depart Time	1042
I22	09 Aug 2022	Air Temp (C)	21.3

Station	Date	Parameter	Value
I22	09 Aug 2022	Weather	Partly Cloudy
I22	09 Aug 2022	Visibility (mi)	8
I22	09 Aug 2022	Wind Speed (kts)	4.2
I22	09 Aug 2022	Wind Dir	W
I22	09 Aug 2022	Water Color	Blueish-Green
I22	09 Aug 2022	Wave Ht Low (ft)	3.3
I22	09 Aug 2022	Wave Period (sec)	7
I22	09 Aug 2022	Sea State	Calm
I22	09 Aug 2022	High Tide (ft)	6.8
I22	09 Aug 2022	High Tide Time	236
I22	09 Aug 2022	Low Tide (ft)	-0.82
I22	09 Aug 2022	Low Tide Time	918
I22	09 Aug 2022	Comments	none
I23	09 Aug 2022	Depth (m)	22
I23	09 Aug 2022	Arrive Time	1045
I23	09 Aug 2022	Depart Time	1052
I23	09 Aug 2022	Air Temp (C)	21.2
I23	09 Aug 2022	Weather	Partly Cloudy
I23	09 Aug 2022	Visibility (mi)	8
I23	09 Aug 2022	Wind Speed (kts)	2.5
I23	09 Aug 2022	Wind Dir	W
I23	09 Aug 2022	Water Color	Blueish-Green
I23	09 Aug 2022	Wave Ht Low (ft)	3.3
I23	09 Aug 2022	Wave Period (sec)	7
I23	09 Aug 2022	Sea State	Calm
I23	09 Aug 2022	High Tide (ft)	6.8
I23	09 Aug 2022	High Tide Time	236
I23	09 Aug 2022	Low Tide (ft)	-0.82
I23	09 Aug 2022	Low Tide Time	918
I23	09 Aug 2022	Comments	none
I27	09 Aug 2022	Depth (m)	29
I27	09 Aug 2022	Arrive Time	1016
I27	09 Aug 2022	Depart Time	1021
I27	09 Aug 2022	Air Temp (C)	21.2
I27	09 Aug 2022	Weather	Partly Cloudy
I27	09 Aug 2022	Visibility (mi)	8
I27	09 Aug 2022	Wind Speed (kts)	3.4
I27	09 Aug 2022	Wind Dir	W
I27	09 Aug 2022	Water Color	Blueish-Green
I27	09 Aug 2022	Wave Ht Low (ft)	3.3
I27	09 Aug 2022	Wave Period (sec)	7
I27	09 Aug 2022	Sea State	Calm
I27	09 Aug 2022	High Tide (ft)	6.8
I27	09 Aug 2022	High Tide Time	236
I27	09 Aug 2022	Low Tide (ft)	-0.82
I27	09 Aug 2022	Low Tide Time	918
I27	09 Aug 2022	Comments	none
I3	11 Aug 2022	Depth (m)	28
I3	11 Aug 2022	Arrive Time	1014
I3	11 Aug 2022	Depart Time	1019
I3	11 Aug 2022	Air Temp (C)	20.6
I3	11 Aug 2022	Weather	Clear
I3	11 Aug 2022	Visibility (mi)	11
I3	11 Aug 2022	Wind Speed (kts)	6
I3	11 Aug 2022	Wind Dir	N
I3	11 Aug 2022	Water Color	Green
I3	11 Aug 2022	Wave Ht Low (ft)	3
I3	11 Aug 2022	Wave Period (sec)	9

Station	Date	Parameter	Value
I3	11 Aug 2022	Sea State	Calm
I3	11 Aug 2022	High Tide (ft)	7.08
I3	11 Aug 2022	High Tide Time	418
I3	11 Aug 2022	Low Tide (ft)	-1.36
I3	11 Aug 2022	Low Tide Time	1042
I3	11 Aug 2022	Comments	none
I4	11 Aug 2022	Depth (m)	20
I4	11 Aug 2022	Arrive Time	1030
I4	11 Aug 2022	Depart Time	1034
I4	11 Aug 2022	Air Temp (C)	20.4
I4	11 Aug 2022	Weather	Clear
I4	11 Aug 2022	Visibility (mi)	11
I4	11 Aug 2022	Wind Speed (kts)	5.1
I4	11 Aug 2022	Wind Dir	NE
I4	11 Aug 2022	Water Color	Green
I4	11 Aug 2022	Wave Ht Low (ft)	3
I4	11 Aug 2022	Wave Period (sec)	9
I4	11 Aug 2022	Sea State	Calm
I4	11 Aug 2022	High Tide (ft)	7.08
I4	11 Aug 2022	High Tide Time	418
I4	11 Aug 2022	Low Tide (ft)	-1.36
I4	11 Aug 2022	Low Tide Time	1042
I4	11 Aug 2022	Comments	none
I5	11 Aug 2022	Depth (m)	14
I5	11 Aug 2022	Arrive Time	1038
I5	11 Aug 2022	Depart Time	1042
I5	11 Aug 2022	Air Temp (C)	20.7
I5	11 Aug 2022	Weather	Clear
I5	11 Aug 2022	Visibility (mi)	11
I5	11 Aug 2022	Wind Speed (kts)	6.6
I5	11 Aug 2022	Wind Dir	N
I5	11 Aug 2022	Water Color	Green
I5	11 Aug 2022	Wave Ht Low (ft)	3
I5	11 Aug 2022	Wave Period (sec)	9
I5	11 Aug 2022	Sea State	Calm
I5	11 Aug 2022	High Tide (ft)	7.08
I5	11 Aug 2022	High Tide Time	418
I5	11 Aug 2022	Low Tide (ft)	-1.36
I5	11 Aug 2022	Low Tide Time	1042
I5	11 Aug 2022	Comments	none
I6	11 Aug 2022	Depth (m)	26
I6	11 Aug 2022	Arrive Time	1056
I6	11 Aug 2022	Depart Time	1100
I6	11 Aug 2022	Air Temp (C)	21.2
I6	11 Aug 2022	Weather	Partly Cloudy
I6	11 Aug 2022	Visibility (mi)	12
I6	11 Aug 2022	Wind Speed (kts)	6.1
I6	11 Aug 2022	Wind Dir	N
I6	11 Aug 2022	Water Color	Green
I6	11 Aug 2022	Wave Ht Low (ft)	3
I6	11 Aug 2022	Wave Period (sec)	9
I6	11 Aug 2022	Sea State	Calm
I6	11 Aug 2022	High Tide (ft)	7.08
I6	11 Aug 2022	High Tide Time	418
I6	11 Aug 2022	Low Tide (ft)	-1.36
I6	11 Aug 2022	Low Tide Time	1042
I6	11 Aug 2022	Comments	none

Station	Date	Parameter	Value
I7	11 Aug 2022	Depth (m)	52
I7	11 Aug 2022	Arrive Time	855
I7	11 Aug 2022	Depart Time	900
I7	11 Aug 2022	Air Temp (C)	21.5
I7	11 Aug 2022	Weather	Clear
I7	11 Aug 2022	Visibility (mi)	11
I7	11 Aug 2022	Wind Speed (kts)	7.8
I7	11 Aug 2022	Wind Dir	N
I7	11 Aug 2022	Water Color	Greenish-Blue
I7	11 Aug 2022	Wave Ht Low (ft)	3
I7	11 Aug 2022	Wave Period (sec)	9
I7	11 Aug 2022	Sea State	Calm
I7	11 Aug 2022	High Tide (ft)	7.08
I7	11 Aug 2022	High Tide Time	418
I7	11 Aug 2022	Low Tide (ft)	-1.36
I7	11 Aug 2022	Low Tide Time	1042
I7	11 Aug 2022	Comments	none
I8	11 Aug 2022	Depth (m)	36
I8	11 Aug 2022	Arrive Time	1155
I8	11 Aug 2022	Depart Time	1202
I8	11 Aug 2022	Air Temp (C)	21.9
I8	11 Aug 2022	Weather	Partly Cloudy
I8	11 Aug 2022	Visibility (mi)	12
I8	11 Aug 2022	Wind Speed (kts)	7.3
I8	11 Aug 2022	Wind Dir	NW
I8	11 Aug 2022	Water Color	Green
I8	11 Aug 2022	Wave Ht Low (ft)	3
I8	11 Aug 2022	Wave Period (sec)	9
I8	11 Aug 2022	Sea State	Calm
I8	11 Aug 2022	High Tide (ft)	7.08
I8	11 Aug 2022	High Tide Time	418
I8	11 Aug 2022	Low Tide (ft)	-1.36
I8	11 Aug 2022	Low Tide Time	1042
I8	11 Aug 2022	Comments	none
I9	11 Aug 2022	Depth (m)	30
I9	11 Aug 2022	Arrive Time	1139
I9	11 Aug 2022	Depart Time	1143
I9	11 Aug 2022	Air Temp (C)	21.5
I9	11 Aug 2022	Weather	Partly Cloudy
I9	11 Aug 2022	Visibility (mi)	12
I9	11 Aug 2022	Wind Speed (kts)	11.9
I9	11 Aug 2022	Wind Dir	W
I9	11 Aug 2022	Water Color	Green
I9	11 Aug 2022	Wave Ht Low (ft)	3
I9	11 Aug 2022	Wave Period (sec)	9
I9	11 Aug 2022	Sea State	Calm
I9	11 Aug 2022	High Tide (ft)	7.08
I9	11 Aug 2022	High Tide Time	418
I9	11 Aug 2022	Low Tide (ft)	-1.36
I9	11 Aug 2022	Low Tide Time	1042
I9	11 Aug 2022	Comments	none

**Table 4.6**

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	11 Aug 2022	1	22.67	90.94	7.1	33.65	8.2	23.0	0.30
I1	11 Aug 2022	2	22.64	90.82	7.1	33.65	8.2	23.0	0.30
I1	11 Aug 2022	3	22.64	90.93	7.1	33.65	8.2	23.0	0.31
I1	11 Aug 2022	4	22.60	90.98	7.0	33.65	8.2	23.0	0.31
I1	11 Aug 2022	5	22.58	90.99	7.1	33.65	8.2	23.0	0.33
I1	11 Aug 2022	6	22.60	90.94	7.0	33.65	8.2	23.0	0.33
I1	11 Aug 2022	7	22.60	91.00	7.0	33.65	8.2	23.0	0.37
I1	11 Aug 2022	8	22.41	91.05	7.0	33.64	8.2	23.1	0.35
I1	11 Aug 2022	9	21.87	91.09	7.0	33.63	8.2	23.2	0.36
I1	11 Aug 2022	10	20.88	91.13	7.3	33.57	8.2	23.4	0.35
I1	11 Aug 2022	11	18.99	91.08	7.9	33.48	8.2	23.9	0.35
I1	11 Aug 2022	12	17.77	90.82	8.6	33.47	8.2	24.2	0.33
I1	11 Aug 2022	13	18.19	90.73	8.3	33.45	8.2	24.0	0.34
I1	11 Aug 2022	14	16.71	90.52	8.7	33.43	8.2	24.4	0.36
I1	11 Aug 2022	15	16.51	90.01	8.8	33.42	8.2	24.4	0.40
I1	11 Aug 2022	16	16.41	89.89	8.8	33.42	8.2	24.4	0.41
I1	11 Aug 2022	17	16.20	89.81	8.8	33.41	8.2	24.5	0.45
I1	11 Aug 2022	18	15.86	89.49	8.8	33.42	8.2	24.6	0.55
I1	11 Aug 2022	19	15.80	89.06	8.7	33.41	8.2	24.6	0.63
I1	11 Aug 2022	20	15.54	88.90	8.7	33.41	8.2	24.6	0.74
I1	11 Aug 2022	21	15.21	88.78	8.8	33.40	8.2	24.7	0.94
I1	11 Aug 2022	22	15.03	88.02	8.9	33.41	8.2	24.7	1.39
I1	11 Aug 2022	23	14.88	86.16	8.8	33.40	8.2	24.8	1.90
I1	11 Aug 2022	24	14.60	85.03	8.8	33.43	8.2	24.8	2.64
I1	11 Aug 2022	25	14.53	84.44	8.7	33.45	8.1	24.9	3.30
I1	11 Aug 2022	26	14.35	84.17	8.4	33.46	8.1	24.9	3.64
I1	11 Aug 2022	27	14.01	85.28	8.1	33.47	8.1	25.0	3.24
I1	11 Aug 2022	28	13.99	87.32	8.0	33.46	8.1	25.0	2.76
I1	11 Aug 2022	29	13.91	87.84	8.0	33.46	8.1	25.0	2.49
I1	11 Aug 2022	30	13.89	87.96	8.0	33.46	8.1	25.0	2.36
I1	11 Aug 2022	31	13.85	88.00	8.0	33.45	8.1	25.0	2.24
I1	11 Aug 2022	32	13.73	88.06	8.0	33.45	8.1	25.0	2.19
I1	11 Aug 2022	33	13.72	88.13	7.9	33.45	8.1	25.1	2.14
I1	11 Aug 2022	34	13.45	88.24	7.6	33.45	8.1	25.1	2.09
I1	11 Aug 2022	35	13.09	88.51	7.2	33.46	8.0	25.2	2.00
I1	11 Aug 2022	36	13.00	89.16	7.0	33.46	8.0	25.2	1.88
I1	11 Aug 2022	37	12.87	89.25	6.8	33.47	8.0	25.2	1.85
I1	11 Aug 2022	38	12.78	89.59	6.6	33.47	8.0	25.3	1.85
I1	11 Aug 2022	39	12.65	89.90	6.4	33.47	8.0	25.3	1.82
I1	11 Aug 2022	40	12.35	90.10	6.1	33.48	7.9	25.3	1.61
I1	11 Aug 2022	41	12.13	90.50	5.9	33.50	7.9	25.4	1.40
I1	11 Aug 2022	42	12.24	90.48	5.8	33.49	7.9	25.4	1.38
I1	11 Aug 2022	43	12.00	90.74	5.8	33.51	7.9	25.4	1.25
I1	11 Aug 2022	44	11.91	90.97	5.7	33.51	7.9	25.4	1.28
I1	11 Aug 2022	45	11.84	91.24	5.6	33.51	7.9	25.5	1.20
I1	11 Aug 2022	46	11.81	91.40	5.6	33.52	7.9	25.5	1.17
I1	11 Aug 2022	47	11.71	91.34	5.5	33.52	7.9	25.5	1.08
I1	11 Aug 2022	48	11.66	91.39	5.4	33.53	7.9	25.5	1.04
I1	11 Aug 2022	49	11.64	91.49	5.4	33.53	7.9	25.5	1.00
I1	11 Aug 2022	50	11.58	91.50	5.4	33.54	7.9	25.5	0.91
I1	11 Aug 2022	51	11.56	91.53	5.3	33.55	7.8	25.5	0.89
I1	11 Aug 2022	52	11.56	91.50	5.3	33.55	7.8	25.5	0.87
I1	11 Aug 2022	53	11.53	91.47	5.2	33.55	7.8	25.6	0.82
I1	11 Aug 2022	54	11.49	91.56	5.2	33.56	7.8	25.6	0.78
I1	11 Aug 2022	55	11.47	91.56	5.2	33.56	7.8	25.6	0.75
I1	11 Aug 2022	56	11.41	91.61	5.1	33.56	7.8	25.6	0.71

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I1	11 Aug 2022	57	11.37	91.63	5.1	33.57	7.8	25.6	0.67
I1	11 Aug 2022	58	11.37	91.63	5.1	33.57	7.8	25.6	0.64
I1	11 Aug 2022	59	11.27	91.64	5.0	33.58	7.8	25.6	0.63
I1	11 Aug 2022	60	11.10	91.63	4.9	33.62	7.8	25.7	0.54
I10	11 Aug 2022	1	19.71	86.74	7.8	33.51	8.1	23.7	0.51
I10	11 Aug 2022	2	19.31	86.79	7.5	33.49	8.1	23.8	0.53
I10	11 Aug 2022	3	17.43	87.35	7.7	33.47	8.1	24.2	0.49
I10	11 Aug 2022	4	16.99	88.06	7.9	33.47	8.1	24.3	0.47
I10	11 Aug 2022	5	16.91	88.54	7.9	33.46	8.1	24.4	0.49
I10	11 Aug 2022	6	16.67	88.44	7.9	33.46	8.1	24.4	0.53
I10	11 Aug 2022	7	16.22	88.89	8.0	33.44	8.1	24.5	0.54
I10	11 Aug 2022	8	15.62	89.41	8.2	33.45	8.1	24.6	0.53
I10	11 Aug 2022	9	15.45	89.24	8.0	33.42	8.1	24.7	0.54
I10	11 Aug 2022	10	15.00	89.59	8.0	33.42	8.1	24.8	0.61
I10	11 Aug 2022	11	14.91	90.08	8.1	33.45	8.1	24.8	0.60
I10	11 Aug 2022	12	14.80	90.24	8.1	33.45	8.1	24.8	0.60
I10	11 Aug 2022	13	14.59	89.58	7.8	33.44	8.1	24.9	0.71
I10	11 Aug 2022	14	14.05	87.42	7.3	33.44	8.1	25.0	0.99
I10	11 Aug 2022	15	13.72	85.46	6.8	33.44	8.0	25.0	1.33
I10	11 Aug 2022	16	13.57	84.58	6.5	33.44	8.0	25.1	1.46
I10	11 Aug 2022	17	13.22	82.85	6.2	33.45	8.0	25.1	2.65
I10	11 Aug 2022	18	13.03	80.09	5.9	33.45	7.9	25.2	4.08
I10	11 Aug 2022	19	12.64	81.90	5.6	33.46	7.9	25.3	3.33
I11	11 Aug 2022	1	20.57	79.55	8.0	33.48	8.1	23.5	0.80
I11	11 Aug 2022	2	20.17	81.45	8.0	33.50	8.1	23.6	0.83
I11	11 Aug 2022	3	19.76	83.72	7.8	33.50	8.1	23.7	0.87
I11	11 Aug 2022	4	18.95	85.19	7.8	33.50	8.1	23.9	0.83
I11	11 Aug 2022	5	18.34	86.24	7.7	33.47	8.1	24.0	0.73
I11	11 Aug 2022	6	17.66	87.22	7.9	33.48	8.1	24.2	0.68
I11	11 Aug 2022	7	17.93	87.95	7.9	33.48	8.1	24.1	0.68
I11	11 Aug 2022	8	17.37	88.74	7.5	33.48	8.1	24.3	0.67
I11	11 Aug 2022	9	16.63	88.78	6.8	33.42	8.1	24.4	0.72
I11	11 Aug 2022	10	13.90	88.72	6.6	33.41	8.0	25.0	1.08
I11	11 Aug 2022	11	13.51	84.24	6.4	33.43	8.0	25.1	1.46
I11	11 Aug 2022	12	13.73	82.79	6.4	33.41	8.0	25.0	1.47
I11	11 Aug 2022	13	13.47	82.59	6.4	33.42	8.0	25.1	1.46
I12	09 Aug 2022	1	20.23	85.64	7.9	33.55	8.2	23.6	0.52
I12	09 Aug 2022	2	20.12	85.86	7.8	33.53	8.2	23.6	0.50
I12	09 Aug 2022	3	19.38	86.94	7.9	33.52	8.2	23.8	0.46
I12	09 Aug 2022	4	18.47	87.80	8.2	33.53	8.2	24.0	0.40
I12	09 Aug 2022	5	18.31	88.22	8.2	33.52	8.2	24.1	0.39
I12	09 Aug 2022	6	17.84	88.12	7.9	33.49	8.2	24.2	0.39
I12	09 Aug 2022	7	16.01	88.29	8.2	33.45	8.2	24.6	0.41
I12	09 Aug 2022	8	15.44	88.78	8.4	33.46	8.2	24.7	0.39
I12	09 Aug 2022	9	15.37	89.23	8.4	33.44	8.2	24.7	0.40
I12	09 Aug 2022	10	15.09	89.65	8.3	33.44	8.1	24.7	0.41
I12	09 Aug 2022	11	14.87	89.68	8.0	33.43	8.1	24.8	0.45
I12	09 Aug 2022	12	14.19	89.47	7.6	33.38	8.1	24.9	0.52
I12	09 Aug 2022	13	13.72	88.68	7.2	33.35	8.1	25.0	0.63
I12	09 Aug 2022	14	13.61	88.31	6.8	33.32	8.0	25.0	0.74
I12	09 Aug 2022	15	12.96	87.86	6.2	33.23	8.0	25.0	0.84
I12	09 Aug 2022	16	12.65	88.19	5.9	33.28	7.9	25.1	0.93
I12	09 Aug 2022	17	12.70	88.41	5.9	33.33	7.9	25.2	1.01
I12	09 Aug 2022	18	12.77	88.49	6.1	33.39	8.0	25.2	1.13
I12	09 Aug 2022	19	12.79	88.46	6.1	33.39	8.0	25.2	1.40
I12	09 Aug 2022	20	12.75	88.60	6.0	33.43	8.0	25.2	1.42
I12	09 Aug 2022	21	12.60	88.45	5.8	33.45	7.9	25.3	1.42
I12	09 Aug 2022	22	12.46	88.44	5.5	33.46	7.9	25.3	1.31

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I12	09 Aug 2022	23	12.23	88.78	5.2	33.47	7.9	25.4	1.18
I12	09 Aug 2022	24	12.20	88.47	5.1	33.48	7.9	25.4	1.08
I12	09 Aug 2022	25	12.11	88.84	5.1	33.48	7.9	25.4	1.16
I12	09 Aug 2022	26	12.03	89.05	5.1	33.49	7.9	25.4	1.18
I12	09 Aug 2022	27	12.02	89.03	5.1	33.49	7.9	25.4	1.21
I12	09 Aug 2022	28	12.02	88.93	5.1	33.49	7.9	25.4	1.25
I13	09 Aug 2022	1	20.88	88.48	7.8	33.56	8.2	23.4	0.34
I13	09 Aug 2022	2	20.71	88.76	7.7	33.55	8.2	23.5	0.33
I13	09 Aug 2022	3	19.82	88.90	7.9	33.55	8.2	23.7	0.33
I13	09 Aug 2022	4	19.07	88.90	8.1	33.53	8.2	23.9	0.33
I13	09 Aug 2022	5	18.40	89.00	8.3	33.51	8.2	24.0	0.33
I13	09 Aug 2022	6	18.34	89.37	8.4	33.51	8.2	24.0	0.34
I13	09 Aug 2022	7	18.09	89.40	8.4	33.49	8.2	24.1	0.36
I13	09 Aug 2022	8	17.74	89.39	8.5	33.49	8.2	24.2	0.37
I13	09 Aug 2022	9	17.50	89.46	8.6	33.48	8.2	24.2	0.38
I13	09 Aug 2022	10	16.96	89.56	8.6	33.47	8.2	24.3	0.39
I13	09 Aug 2022	11	16.60	89.55	8.4	33.47	8.2	24.4	0.39
I13	09 Aug 2022	12	15.65	89.15	8.4	33.46	8.2	24.6	0.42
I13	09 Aug 2022	13	15.05	88.47	8.4	33.46	8.2	24.8	0.46
I13	09 Aug 2022	14	14.78	88.31	8.3	33.45	8.2	24.8	0.51
I13	09 Aug 2022	15	14.34	88.18	8.3	33.43	8.1	24.9	0.60
I13	09 Aug 2022	16	14.05	87.44	8.3	33.43	8.1	25.0	0.70
I13	09 Aug 2022	17	13.99	87.33	8.2	33.42	8.1	25.0	0.78
I13	09 Aug 2022	18	13.77	87.95	8.0	33.42	8.1	25.0	0.89
I13	09 Aug 2022	19	13.36	88.51	7.6	33.42	8.1	25.1	1.21
I13	09 Aug 2022	20	13.08	86.51	7.2	33.44	8.0	25.2	1.91
I13	09 Aug 2022	21	12.96	85.88	6.8	33.43	8.0	25.2	1.91
I13	09 Aug 2022	22	12.71	87.34	6.5	33.45	8.0	25.2	1.81
I13	09 Aug 2022	23	12.66	88.04	6.3	33.45	8.0	25.3	1.92
I13	09 Aug 2022	24	12.62	88.39	6.1	33.46	8.0	25.3	1.89
I13	09 Aug 2022	25	12.33	89.13	5.8	33.47	7.9	25.3	1.77
I13	09 Aug 2022	26	12.25	89.43	5.6	33.48	7.9	25.4	1.60
I13	09 Aug 2022	27	12.21	89.69	5.5	33.48	7.9	25.4	1.54
I13	09 Aug 2022	28	12.13	89.92	5.4	33.48	7.9	25.4	1.27
I13	09 Aug 2022	29	12.02	90.23	5.4	33.49	7.9	25.4	1.21
I13	09 Aug 2022	30	11.93	90.64	5.4	33.50	7.9	25.4	1.14
I13	09 Aug 2022	31	11.90	90.82	5.4	33.50	7.9	25.4	1.02
I13	09 Aug 2022	32	11.83	90.70	5.3	33.51	7.9	25.5	0.97
I13	09 Aug 2022	33	11.80	90.85	5.3	33.51	7.9	25.5	1.03
I13	09 Aug 2022	34	11.79	90.65	5.3	33.52	7.9	25.5	1.19
I13	09 Aug 2022	35	11.79	90.44	5.2	33.52	7.9	25.5	1.18
I13	09 Aug 2022	36	11.77	90.00	5.2	33.52	7.9	25.5	1.16
I13	09 Aug 2022	37	11.78	90.03	5.2	33.52	7.9	25.5	1.21
I13	09 Aug 2022	38	11.78	90.11	5.2	33.52	7.9	25.5	1.17
I14	09 Aug 2022	1	20.49	87.40	7.8	33.52	8.2	23.5	0.44
I14	09 Aug 2022	2	18.90	87.68	7.7	33.50	8.2	23.9	0.39
I14	09 Aug 2022	3	17.48	88.31	8.0	33.48	8.2	24.2	0.35
I14	09 Aug 2022	4	16.46	88.43	8.2	33.45	8.2	24.5	0.34
I14	09 Aug 2022	5	15.43	88.32	8.4	33.45	8.2	24.7	0.38
I14	09 Aug 2022	6	15.22	88.54	8.3	33.42	8.1	24.7	0.42
I14	09 Aug 2022	7	14.80	88.70	8.3	33.41	8.1	24.8	0.43
I14	09 Aug 2022	8	14.68	88.74	8.2	33.42	8.1	24.8	0.51
I14	09 Aug 2022	9	14.63	88.95	8.1	33.41	8.1	24.8	0.49
I14	09 Aug 2022	10	14.20	88.91	7.9	33.41	8.1	24.9	0.56
I14	09 Aug 2022	11	14.04	88.35	7.8	33.42	8.1	25.0	0.66
I14	09 Aug 2022	12	14.05	87.98	7.7	33.42	8.1	25.0	0.79
I14	09 Aug 2022	13	13.90	88.00	7.6	33.42	8.1	25.0	0.90
I14	09 Aug 2022	14	13.82	87.71	7.5	33.42	8.1	25.0	0.94
I14	09 Aug 2022	15	13.45	87.42	7.3	33.42	8.1	25.1	1.16

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I14	09 Aug 2022	16	13.13	86.88	7.0	33.44	8.0	25.2	1.50
I14	09 Aug 2022	17	12.96	87.21	6.7	33.44	8.0	25.2	1.73
I14	09 Aug 2022	18	12.59	88.15	6.2	33.45	8.0	25.3	1.72
I14	09 Aug 2022	19	12.46	88.60	5.9	33.46	7.9	25.3	1.46
I14	09 Aug 2022	20	12.40	88.92	5.6	33.46	7.9	25.3	1.40
I14	09 Aug 2022	21	12.22	88.90	5.4	33.47	7.9	25.4	1.26
I14	09 Aug 2022	22	12.19	88.94	5.2	33.47	7.9	25.4	1.28
I14	09 Aug 2022	23	12.17	89.00	5.2	33.48	7.9	25.4	1.16
I14	09 Aug 2022	24	12.16	89.17	5.1	33.48	7.9	25.4	1.16
I14	09 Aug 2022	25	12.10	89.21	5.0	33.48	7.8	25.4	1.18
I14	09 Aug 2022	26	12.08	89.07	5.0	33.48	7.8	25.4	1.18
I14	09 Aug 2022	27	12.07	88.85	5.0	33.49	7.8	25.4	1.19
I14	09 Aug 2022	28	12.09	88.86	5.1	33.49	7.8	25.4	1.19
I15	09 Aug 2022	1	20.48	86.05	7.9	33.50	8.2	23.5	0.41
I15	09 Aug 2022	2	19.75	86.87	7.8	33.48	8.2	23.7	0.39
I15	09 Aug 2022	3	17.86	87.79	8.2	33.50	8.2	24.2	0.35
I15	09 Aug 2022	4	17.52	88.55	8.3	33.49	8.2	24.2	0.34
I15	09 Aug 2022	5	17.26	88.59	8.3	33.48	8.2	24.3	0.35
I15	09 Aug 2022	6	16.67	88.37	8.2	33.46	8.2	24.4	0.37
I15	09 Aug 2022	7	15.91	88.34	8.3	33.42	8.2	24.5	0.41
I15	09 Aug 2022	8	15.00	88.39	8.3	33.41	8.1	24.7	0.42
I15	09 Aug 2022	9	14.68	88.87	8.2	33.41	8.1	24.8	0.46
I15	09 Aug 2022	10	14.60	89.33	8.2	33.41	8.1	24.8	0.49
I15	09 Aug 2022	11	14.32	89.41	8.0	33.40	8.1	24.9	0.51
I15	09 Aug 2022	12	14.16	89.06	7.8	33.41	8.1	24.9	0.60
I15	09 Aug 2022	13	13.96	88.26	7.4	33.39	8.1	25.0	0.71
I15	09 Aug 2022	14	13.35	87.88	6.9	33.32	8.1	25.0	0.84
I15	09 Aug 2022	15	12.86	87.76	6.4	33.34	8.0	25.1	0.95
I15	09 Aug 2022	16	12.87	88.38	6.1	33.33	8.0	25.1	0.92
I15	09 Aug 2022	17	12.58	88.83	5.9	33.36	7.9	25.2	0.93
I15	09 Aug 2022	18	12.64	88.77	5.9	33.41	7.9	25.2	0.99
I15	09 Aug 2022	19	12.64	88.64	6.0	33.42	7.9	25.2	1.15
I15	09 Aug 2022	20	12.57	88.93	5.8	33.43	7.9	25.3	1.17
I15	09 Aug 2022	21	12.38	88.90	5.6	33.45	7.9	25.3	1.24
I15	09 Aug 2022	22	12.35	89.12	5.4	33.46	7.9	25.3	1.19
I15	09 Aug 2022	23	12.23	89.16	5.3	33.47	7.9	25.4	1.17
I15	09 Aug 2022	24	12.18	89.13	5.2	33.47	7.9	25.4	1.15
I15	09 Aug 2022	25	12.09	89.24	5.2	33.48	7.9	25.4	1.10
I15	09 Aug 2022	26	12.04	89.48	5.2	33.49	7.9	25.4	1.05
I15	09 Aug 2022	27	12.04	89.61	5.1	33.49	7.9	25.4	1.06
I15	09 Aug 2022	28	11.97	89.39	5.1	33.49	7.9	25.4	1.05
I15	09 Aug 2022	29	11.97	89.00	5.0	33.49	7.8	25.4	1.12
I15	09 Aug 2022	30	11.97	88.95	5.0	33.50	7.8	25.4	1.16
I15	09 Aug 2022	31	11.97	88.83	5.1	33.50	7.8	25.4	1.10
I16	09 Aug 2022	1	19.65	87.76	7.8	33.52	8.2	23.7	0.40
I16	09 Aug 2022	2	18.99	87.51	8.0	33.51	8.2	23.9	0.35
I16	09 Aug 2022	3	18.12	86.91	8.2	33.52	8.2	24.1	0.35
I16	09 Aug 2022	4	17.77	88.12	8.1	33.49	8.2	24.2	0.37
I16	09 Aug 2022	5	16.78	88.29	8.2	33.46	8.2	24.4	0.38
I16	09 Aug 2022	6	16.07	87.97	8.4	33.48	8.2	24.6	0.42
I16	09 Aug 2022	7	15.74	88.58	8.2	33.42	8.2	24.6	0.43
I16	09 Aug 2022	8	15.05	89.13	8.3	33.44	8.1	24.8	0.41
I16	09 Aug 2022	9	15.03	89.53	8.3	33.44	8.1	24.8	0.43
I16	09 Aug 2022	10	14.86	89.71	8.2	33.42	8.1	24.8	0.43
I16	09 Aug 2022	11	14.61	89.61	8.1	33.42	8.1	24.8	0.51
I16	09 Aug 2022	12	14.47	89.22	8.0	33.42	8.1	24.9	0.53
I16	09 Aug 2022	13	14.26	89.15	7.9	33.42	8.1	24.9	0.64
I16	09 Aug 2022	14	14.09	88.64	7.5	33.42	8.1	24.9	0.70
I16	09 Aug 2022	15	13.43	88.14	7.0	33.33	8.1	25.0	0.79

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I16	09 Aug 2022	16	13.05	88.42	6.4	33.32	8.0	25.1	0.87
I16	09 Aug 2022	17	13.00	88.66	6.0	33.31	7.9	25.1	0.90
I16	09 Aug 2022	18	12.47	88.70	5.6	33.30	7.9	25.2	0.94
I16	09 Aug 2022	19	12.42	88.69	5.5	33.34	7.9	25.2	0.97
I16	09 Aug 2022	20	12.45	88.83	5.5	33.40	7.9	25.3	1.21
I16	09 Aug 2022	21	12.31	88.94	5.4	33.44	7.9	25.3	1.26
I16	09 Aug 2022	22	12.27	88.93	5.3	33.45	7.9	25.3	1.19
I16	09 Aug 2022	23	12.20	89.10	5.2	33.46	7.9	25.4	1.20
I16	09 Aug 2022	24	12.19	89.04	5.1	33.47	7.9	25.4	1.26
I16	09 Aug 2022	25	12.18	89.02	5.1	33.47	7.9	25.4	1.15
I16	09 Aug 2022	26	12.17	89.04	5.1	33.47	7.9	25.4	1.14
I16	09 Aug 2022	27	12.13	89.02	5.1	33.48	7.8	25.4	1.19
I16	09 Aug 2022	28	12.08	89.06	5.0	33.49	7.8	25.4	1.08
I17	09 Aug 2022	1	19.70	87.70	8.0	33.51	8.2	23.7	0.51
I17	09 Aug 2022	2	19.12	87.76	8.0	33.52	8.2	23.9	0.46
I17	09 Aug 2022	3	18.30	87.70	8.1	33.52	8.2	24.1	0.39
I17	09 Aug 2022	4	17.75	88.09	8.1	33.51	8.2	24.2	0.38
I17	09 Aug 2022	5	17.21	88.11	8.0	33.48	8.2	24.3	0.41
I17	09 Aug 2022	6	15.82	88.07	8.3	33.46	8.2	24.6	0.42
I17	09 Aug 2022	7	15.48	88.54	8.4	33.45	8.1	24.7	0.41
I17	09 Aug 2022	8	15.33	89.16	8.3	33.44	8.1	24.7	0.41
I17	09 Aug 2022	9	14.92	89.61	8.1	33.43	8.1	24.8	0.44
I17	09 Aug 2022	10	14.59	89.50	8.0	33.43	8.1	24.8	0.51
I17	09 Aug 2022	11	14.27	88.90	7.9	33.42	8.1	24.9	0.58
I17	09 Aug 2022	12	14.12	88.38	7.8	33.42	8.1	24.9	0.70
I17	09 Aug 2022	13	14.02	88.13	7.7	33.43	8.1	25.0	0.87
I17	09 Aug 2022	14	13.91	87.98	7.5	33.42	8.1	25.0	1.06
I17	09 Aug 2022	15	13.54	87.54	7.2	33.40	8.1	25.0	1.14
I17	09 Aug 2022	16	12.93	87.39	6.8	33.41	8.0	25.2	1.38
I17	09 Aug 2022	17	12.92	87.72	6.5	33.43	8.0	25.2	1.57
I17	09 Aug 2022	18	12.78	88.06	6.2	33.43	8.0	25.2	1.46
I17	09 Aug 2022	19	12.50	88.42	5.8	33.45	7.9	25.3	1.37
I17	09 Aug 2022	20	12.33	88.94	5.5	33.46	7.9	25.3	1.32
I17	09 Aug 2022	21	12.26	88.83	5.2	33.47	7.9	25.3	1.20
I17	09 Aug 2022	22	12.23	88.61	5.2	33.47	7.9	25.4	1.08
I17	09 Aug 2022	23	12.26	88.59	5.1	33.47	7.9	25.4	1.07
I17	09 Aug 2022	24	12.21	88.68	5.1	33.47	7.9	25.4	1.10
I17	09 Aug 2022	25	12.20	88.57	5.1	33.48	7.9	25.4	1.12
I18	09 Aug 2022	1	18.98	87.37	7.9	33.49	8.1	23.9	0.41
I18	09 Aug 2022	2	18.21	87.38	7.7	33.50	8.1	24.1	0.40
I18	09 Aug 2022	3	16.88	87.97	7.8	33.48	8.1	24.4	0.41
I18	09 Aug 2022	4	15.84	88.13	7.9	33.46	8.1	24.6	0.40
I18	09 Aug 2022	5	15.58	88.25	7.8	33.46	8.1	24.7	0.45
I18	09 Aug 2022	6	15.43	88.07	7.6	33.44	8.1	24.7	0.56
I18	09 Aug 2022	7	14.95	87.59	7.5	33.42	8.1	24.8	0.66
I18	09 Aug 2022	8	14.50	86.96	7.2	33.43	8.0	24.9	0.89
I18	09 Aug 2022	9	14.08	84.92	7.0	33.42	8.0	25.0	1.14
I18	09 Aug 2022	10	13.85	82.55	7.0	33.42	8.0	25.0	1.56
I18	09 Aug 2022	11	13.71	83.00	6.9	33.42	8.0	25.0	1.84
I18	09 Aug 2022	12	13.59	83.07	6.7	33.43	8.0	25.1	2.38
I18	09 Aug 2022	13	13.49	82.71	6.6	33.43	8.0	25.1	2.81
I18	09 Aug 2022	14	13.36	82.56	6.6	33.43	8.0	25.1	3.43
I18	09 Aug 2022	15	13.34	82.64	6.5	33.43	8.0	25.1	3.32
I18	09 Aug 2022	16	13.25	83.36	6.2	33.42	8.0	25.1	2.85
I18	09 Aug 2022	17	12.64	85.69	5.8	33.45	7.9	25.3	2.00
I18	09 Aug 2022	18	12.38	87.59	5.3	33.46	7.9	25.3	1.51
I18	09 Aug 2022	19	12.36	87.91	5.2	33.46	7.9	25.3	1.23
I2	11 Aug 2022	1	21.53	89.33	7.8	33.58	8.2	23.3	0.31

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I2	11 Aug 2022	2	21.49	89.40	7.6	33.58	8.2	23.3	0.32
I2	11 Aug 2022	3	20.76	89.23	7.6	33.55	8.2	23.5	0.34
I2	11 Aug 2022	4	19.67	89.38	8.0	33.56	8.2	23.8	0.32
I2	11 Aug 2022	5	19.52	89.51	7.8	33.51	8.2	23.7	0.33
I2	11 Aug 2022	6	17.87	89.36	8.3	33.49	8.2	24.1	0.34
I2	11 Aug 2022	7	17.78	89.57	8.5	33.48	8.2	24.2	0.34
I2	11 Aug 2022	8	17.14	89.67	8.6	33.46	8.2	24.3	0.35
I2	11 Aug 2022	9	16.47	89.57	8.8	33.46	8.2	24.5	0.38
I2	11 Aug 2022	10	16.24	89.16	8.7	33.46	8.2	24.5	0.43
I2	11 Aug 2022	11	15.48	88.72	8.6	33.46	8.2	24.7	0.48
I2	11 Aug 2022	12	15.02	87.88	8.7	33.46	8.2	24.8	0.58
I2	11 Aug 2022	13	14.61	86.96	8.6	33.45	8.2	24.9	0.75
I2	11 Aug 2022	14	14.22	87.49	8.5	33.44	8.1	24.9	0.86
I2	11 Aug 2022	15	14.25	89.07	8.3	33.44	8.1	24.9	0.88
I2	11 Aug 2022	16	14.03	89.54	8.2	33.43	8.1	25.0	0.86
I2	11 Aug 2022	17	13.94	89.48	8.1	33.43	8.1	25.0	0.89
I2	11 Aug 2022	18	13.83	88.95	7.8	33.43	8.1	25.0	1.11
I2	11 Aug 2022	19	13.48	87.63	7.4	33.42	8.1	25.1	1.37
I2	11 Aug 2022	20	13.09	86.50	7.1	33.45	8.0	25.2	2.06
I2	11 Aug 2022	21	13.02	85.33	6.8	33.45	8.0	25.2	2.74
I2	11 Aug 2022	22	12.80	85.30	6.6	33.46	8.0	25.2	3.10
I2	11 Aug 2022	23	12.62	85.87	6.4	33.47	8.0	25.3	3.31
I2	11 Aug 2022	24	12.48	86.31	6.2	33.47	7.9	25.3	3.15
I2	11 Aug 2022	25	12.44	87.10	6.1	33.48	7.9	25.3	2.80
I2	11 Aug 2022	26	12.40	87.75	6.0	33.48	7.9	25.3	2.55
I2	11 Aug 2022	27	12.23	88.54	5.8	33.49	7.9	25.4	2.11
I2	11 Aug 2022	28	12.18	88.81	5.7	33.49	7.9	25.4	1.76
I2	11 Aug 2022	29	12.18	89.03	5.6	33.49	7.9	25.4	1.60
I2	11 Aug 2022	30	12.18	89.12	5.6	33.49	7.9	25.4	1.58
I2	11 Aug 2022	31	12.17	89.14	5.6	33.49	7.9	25.4	1.53
I2	11 Aug 2022	32	12.17	89.10	5.5	33.49	7.9	25.4	1.48
I20	09 Aug 2022	1	21.57	89.40	7.6	33.59	8.2	23.3	0.31
I20	09 Aug 2022	2	21.47	89.43	7.5	33.59	8.2	23.3	0.31
I20	09 Aug 2022	3	21.27	89.35	7.5	33.59	8.2	23.4	0.33
I20	09 Aug 2022	4	20.93	89.45	7.4	33.59	8.2	23.4	0.34
I20	09 Aug 2022	5	20.17	89.58	7.6	33.58	8.2	23.6	0.36
I20	09 Aug 2022	6	19.84	89.69	7.8	33.58	8.2	23.7	0.42
I20	09 Aug 2022	7	19.74	89.50	7.7	33.57	8.2	23.7	0.43
I20	09 Aug 2022	8	19.47	90.03	7.7	33.56	8.2	23.8	0.45
I20	09 Aug 2022	9	19.01	90.14	7.9	33.55	8.2	23.9	0.37
I20	09 Aug 2022	10	18.60	90.39	7.9	33.53	8.2	24.0	0.36
I20	09 Aug 2022	11	18.05	90.52	8.0	33.50	8.2	24.1	0.38
I20	09 Aug 2022	12	16.92	90.38	8.3	33.49	8.2	24.4	0.39
I20	09 Aug 2022	13	15.92	90.31	8.5	33.47	8.2	24.6	0.48
I20	09 Aug 2022	14	15.17	89.81	8.6	33.46	8.1	24.8	0.83
I20	09 Aug 2022	15	14.88	88.27	8.5	33.46	8.1	24.8	1.22
I20	09 Aug 2022	16	14.76	87.09	8.5	33.46	8.1	24.8	1.62
I20	09 Aug 2022	17	14.63	86.05	8.4	33.46	8.1	24.9	1.99
I20	09 Aug 2022	18	14.50	85.68	8.4	33.46	8.1	24.9	2.44
I20	09 Aug 2022	19	14.31	85.43	8.2	33.45	8.1	24.9	2.88
I20	09 Aug 2022	20	13.72	84.81	8.0	33.44	8.1	25.0	3.24
I20	09 Aug 2022	21	13.48	84.01	7.8	33.44	8.1	25.1	3.53
I20	09 Aug 2022	22	13.34	84.19	7.6	33.44	8.1	25.1	3.69
I20	09 Aug 2022	23	13.26	84.66	7.5	33.44	8.0	25.1	3.69
I20	09 Aug 2022	24	13.17	85.20	7.4	33.44	8.0	25.1	3.56
I20	09 Aug 2022	25	12.95	85.63	7.1	33.44	8.0	25.2	3.34
I20	09 Aug 2022	26	12.71	85.83	6.9	33.45	8.0	25.3	3.07
I20	09 Aug 2022	27	12.70	86.83	6.8	33.45	8.0	25.3	2.68
I20	09 Aug 2022	28	12.69	87.88	6.7	33.46	8.0	25.3	2.52
I20	09 Aug 2022	29	12.67	88.34	6.6	33.46	8.0	25.3	2.42

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I20	09 Aug 2022	30	12.64	88.66	6.5	33.46	8.0	25.3	2.32
I20	09 Aug 2022	31	12.53	88.74	6.3	33.48	7.9	25.3	2.02
I20	09 Aug 2022	32	12.45	89.13	6.1	33.48	7.9	25.3	1.73
I20	09 Aug 2022	33	12.42	90.26	6.0	33.49	7.9	25.3	1.48
I20	09 Aug 2022	34	12.38	90.52	5.9	33.49	7.9	25.3	1.41
I20	09 Aug 2022	35	12.25	90.79	5.8	33.49	7.9	25.4	1.23
I20	09 Aug 2022	36	12.18	91.26	5.7	33.50	7.9	25.4	1.14
I20	09 Aug 2022	37	12.27	91.41	5.6	33.49	7.9	25.4	1.16
I20	09 Aug 2022	38	12.02	91.34	5.5	33.51	7.9	25.4	1.15
I20	09 Aug 2022	39	11.99	91.16	5.3	33.51	7.9	25.4	0.99
I20	09 Aug 2022	40	11.90	91.14	5.2	33.52	7.8	25.5	0.95
I20	09 Aug 2022	41	11.76	91.52	5.1	33.53	7.8	25.5	0.95
I20	09 Aug 2022	42	11.69	91.68	5.0	33.54	7.8	25.5	0.87
I20	09 Aug 2022	43	11.66	91.76	5.0	33.54	7.8	25.5	0.83
I20	09 Aug 2022	44	11.58	91.87	5.0	33.54	7.8	25.5	0.76
I20	09 Aug 2022	45	11.52	91.78	4.9	33.54	7.8	25.5	0.73
I20	09 Aug 2022	46	11.48	91.73	4.9	33.55	7.8	25.6	0.70
I20	09 Aug 2022	47	11.44	91.59	4.8	33.55	7.8	25.6	0.63
I20	09 Aug 2022	48	11.38	91.34	4.8	33.56	7.8	25.6	0.62
I20	09 Aug 2022	49	11.32	91.47	4.8	33.57	7.8	25.6	0.57
I20	09 Aug 2022	50	11.21	91.42	4.7	33.59	7.8	25.6	0.51
I20	09 Aug 2022	51	11.15	91.41	4.6	33.60	7.8	25.7	0.45
I20	09 Aug 2022	52	11.02	91.45	4.5	33.63	7.8	25.7	0.40
I20	09 Aug 2022	53	11.03	91.54	4.5	33.62	7.8	25.7	0.36
I20	09 Aug 2022	54	10.76	91.36	4.4	33.68	7.8	25.8	0.31
I20	09 Aug 2022	55	10.74	91.24	4.4	33.69	7.8	25.8	0.26
I21	09 Aug 2022	1	20.53	88.21	7.8	33.55	8.2	23.5	0.45
I21	09 Aug 2022	2	20.11	88.22	7.9	33.54	8.2	23.6	0.43
I21	09 Aug 2022	3	19.54	88.26	8.0	33.53	8.2	23.8	0.41
I21	09 Aug 2022	4	18.72	88.42	8.1	33.51	8.2	24.0	0.42
I21	09 Aug 2022	5	18.13	89.22	8.4	33.51	8.2	24.1	0.40
I21	09 Aug 2022	6	17.82	89.64	8.5	33.49	8.2	24.2	0.41
I21	09 Aug 2022	7	17.25	89.74	8.6	33.46	8.2	24.3	0.40
I21	09 Aug 2022	8	16.65	89.87	8.7	33.45	8.2	24.4	0.41
I21	09 Aug 2022	9	16.39	90.13	8.7	33.46	8.2	24.5	0.42
I21	09 Aug 2022	10	15.90	89.70	8.4	33.48	8.2	24.6	0.46
I21	09 Aug 2022	11	15.11	89.01	8.2	33.45	8.2	24.8	0.57
I21	09 Aug 2022	12	14.25	88.33	8.2	33.43	8.1	24.9	0.68
I21	09 Aug 2022	13	14.02	87.61	8.2	33.43	8.1	25.0	0.95
I21	09 Aug 2022	14	13.87	86.61	8.0	33.42	8.1	25.0	1.29
I21	09 Aug 2022	15	13.58	86.14	7.9	33.42	8.1	25.1	1.57
I21	09 Aug 2022	16	13.26	86.00	7.6	33.42	8.1	25.1	1.83
I21	09 Aug 2022	17	13.03	86.69	7.3	33.44	8.0	25.2	1.96
I21	09 Aug 2022	18	12.94	87.71	7.0	33.44	8.0	25.2	2.07
I21	09 Aug 2022	19	12.73	88.08	6.7	33.45	8.0	25.2	2.05
I21	09 Aug 2022	20	12.65	88.82	6.4	33.46	8.0	25.3	2.05
I21	09 Aug 2022	21	12.58	89.72	6.2	33.45	8.0	25.3	1.84
I21	09 Aug 2022	22	12.50	90.18	6.1	33.48	7.9	25.3	1.71
I21	09 Aug 2022	23	12.30	90.21	5.8	33.45	7.9	25.3	1.52
I21	09 Aug 2022	24	12.06	90.41	5.6	33.48	7.9	25.4	1.28
I21	09 Aug 2022	25	11.98	90.55	5.4	33.49	7.9	25.4	1.19
I21	09 Aug 2022	26	11.93	90.60	5.3	33.49	7.9	25.4	1.22
I21	09 Aug 2022	27	11.90	90.30	5.3	33.49	7.9	25.4	1.16
I21	09 Aug 2022	28	11.86	90.32	5.2	33.50	7.9	25.4	1.03
I21	09 Aug 2022	29	11.86	90.43	5.2	33.50	7.8	25.5	1.03
I21	09 Aug 2022	30	11.77	90.29	5.1	33.51	7.8	25.5	1.12
I21	09 Aug 2022	31	11.71	90.38	5.0	33.52	7.8	25.5	1.15
I21	09 Aug 2022	32	11.69	90.81	5.0	33.53	7.8	25.5	1.02
I21	09 Aug 2022	33	11.68	90.92	5.0	33.53	7.8	25.5	0.98
I21	09 Aug 2022	34	11.67	90.66	4.9	33.53	7.8	25.5	0.99

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I21	09 Aug 2022	35	11.67	90.49	4.9	33.53	7.8	25.5	1.00
I21	09 Aug 2022	36	11.67	90.48	4.9	33.53	7.8	25.5	1.05
I21	09 Aug 2022	37	11.67	90.54	4.9	33.53	7.8	25.5	1.10
I21	09 Aug 2022	38	11.68	90.56	4.9	33.53	7.8	25.5	1.02
I21	09 Aug 2022	39	11.67	90.56	4.9	33.53	7.8	25.5	0.96
I21	09 Aug 2022	40	11.66	90.50	4.9	33.53	7.8	25.5	0.95
I21	09 Aug 2022	41	11.66	90.52	4.9	33.53	7.8	25.5	0.97
I22	09 Aug 2022	1	19.23	87.58	8.0	33.51	8.1	23.8	0.52
I22	09 Aug 2022	2	18.84	87.89	8.0	33.52	8.1	23.9	0.47
I22	09 Aug 2022	3	18.11	87.97	7.9	33.49	8.2	24.1	0.42
I22	09 Aug 2022	4	16.89	87.91	8.3	33.49	8.2	24.4	0.38
I22	09 Aug 2022	5	16.53	88.18	8.4	33.49	8.2	24.5	0.38
I22	09 Aug 2022	6	16.04	88.23	8.3	33.47	8.2	24.6	0.41
I22	09 Aug 2022	7	14.98	88.34	8.4	33.45	8.1	24.8	0.44
I22	09 Aug 2022	8	14.80	88.42	8.3	33.44	8.1	24.8	0.48
I22	09 Aug 2022	9	14.57	88.76	8.2	33.43	8.1	24.9	0.50
I22	09 Aug 2022	10	14.31	88.78	8.1	33.43	8.1	24.9	0.58
I22	09 Aug 2022	11	14.17	88.52	7.8	33.42	8.1	24.9	0.74
I22	09 Aug 2022	12	13.75	88.30	7.6	33.42	8.1	25.0	0.94
I22	09 Aug 2022	13	13.59	87.68	7.4	33.43	8.0	25.1	1.11
I22	09 Aug 2022	14	13.49	87.06	7.2	33.43	8.0	25.1	1.26
I22	09 Aug 2022	15	13.28	87.41	7.0	33.43	8.0	25.1	1.48
I22	09 Aug 2022	16	12.96	87.57	6.8	33.45	8.0	25.2	1.81
I22	09 Aug 2022	17	12.86	87.29	6.5	33.45	8.0	25.2	2.19
I22	09 Aug 2022	18	12.70	87.55	6.3	33.45	8.0	25.2	1.90
I22	09 Aug 2022	19	12.45	88.08	5.9	33.46	7.9	25.3	1.58
I22	09 Aug 2022	20	12.36	88.87	5.7	33.46	7.9	25.3	1.43
I22	09 Aug 2022	21	12.32	89.37	5.5	33.47	7.9	25.3	1.27
I22	09 Aug 2022	22	12.26	89.36	5.4	33.47	7.9	25.4	1.29
I22	09 Aug 2022	23	12.20	89.28	5.2	33.48	7.9	25.4	1.33
I22	09 Aug 2022	24	12.18	89.15	5.2	33.48	7.9	25.4	1.21
I22	09 Aug 2022	25	12.16	89.15	5.1	33.48	7.8	25.4	1.20
I22	09 Aug 2022	26	12.14	89.13	5.0	33.48	7.8	25.4	1.17
I22	09 Aug 2022	27	12.12	88.97	5.0	33.48	7.8	25.4	1.14
I22	09 Aug 2022	28	12.12	88.97	5.0	33.49	7.8	25.4	1.14
I23	09 Aug 2022	1	18.36	86.59	8.0	33.47	8.1	24.0	0.39
I23	09 Aug 2022	2	18.11	87.73	7.8	33.49	8.1	24.1	0.41
I23	09 Aug 2022	3	17.08	88.14	7.8	33.48	8.1	24.3	0.40
I23	09 Aug 2022	4	16.40	87.99	8.0	33.47	8.1	24.5	0.40
I23	09 Aug 2022	5	16.00	87.76	8.1	33.46	8.1	24.6	0.42
I23	09 Aug 2022	6	15.79	88.04	8.1	33.44	8.1	24.6	0.43
I23	09 Aug 2022	7	15.30	88.26	8.0	33.44	8.1	24.7	0.44
I23	09 Aug 2022	8	15.16	88.52	7.9	33.45	8.1	24.7	0.50
I23	09 Aug 2022	9	15.20	88.03	7.7	33.45	8.1	24.7	0.56
I23	09 Aug 2022	10	14.84	87.57	7.6	33.43	8.1	24.8	0.73
I23	09 Aug 2022	11	14.59	86.91	7.4	33.43	8.1	24.9	0.96
I23	09 Aug 2022	12	14.38	85.94	7.2	33.43	8.0	24.9	1.31
I23	09 Aug 2022	13	14.11	84.93	6.8	33.43	8.0	24.9	1.75
I23	09 Aug 2022	14	13.79	82.53	6.3	33.43	8.0	25.0	2.29
I23	09 Aug 2022	15	13.54	81.29	6.1	33.43	7.9	25.1	2.67
I23	09 Aug 2022	16	13.48	81.28	6.2	33.43	7.9	25.1	2.99
I23	09 Aug 2022	17	13.47	82.37	6.3	33.43	8.0	25.1	3.06
I23	09 Aug 2022	18	13.44	83.67	6.4	33.43	8.0	25.1	2.78
I23	09 Aug 2022	19	13.21	85.79	6.1	33.44	8.0	25.1	2.17
I23	09 Aug 2022	20	12.72	88.20	5.7	33.44	7.9	25.2	1.45
I23	09 Aug 2022	21	12.40	87.95	5.4	33.46	7.9	25.3	1.12
I27	09 Aug 2022	1	17.76	86.74	8.0	33.48	8.1	24.2	0.55
I27	09 Aug 2022	2	17.20	86.45	7.8	33.47	8.1	24.3	0.57

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I27	09 Aug 2022	3	16.50	86.52	7.7	33.47	8.1	24.5	0.56
I27	09 Aug 2022	4	15.74	86.57	7.7	33.43	8.1	24.6	0.57
I27	09 Aug 2022	5	14.85	86.64	8.0	33.43	8.1	24.8	0.58
I27	09 Aug 2022	6	14.82	87.16	7.9	33.43	8.1	24.8	0.60
I27	09 Aug 2022	7	14.20	87.11	7.8	33.41	8.1	24.9	0.68
I27	09 Aug 2022	8	13.86	87.05	7.7	33.43	8.1	25.0	0.85
I27	09 Aug 2022	9	13.77	87.04	7.6	33.43	8.1	25.0	0.97
I27	09 Aug 2022	10	13.67	87.12	7.5	33.43	8.0	25.0	1.10
I27	09 Aug 2022	11	13.62	87.13	7.4	33.44	8.0	25.1	1.27
I27	09 Aug 2022	12	13.51	87.21	7.3	33.43	8.0	25.1	1.46
I27	09 Aug 2022	13	13.36	87.07	7.1	33.43	8.0	25.1	1.77
I27	09 Aug 2022	14	13.29	86.70	7.0	33.44	8.0	25.1	1.98
I27	09 Aug 2022	15	13.19	87.34	6.9	33.44	8.0	25.1	2.09
I27	09 Aug 2022	16	12.98	87.78	6.6	33.45	8.0	25.2	2.13
I27	09 Aug 2022	17	12.84	87.90	6.5	33.46	8.0	25.2	2.07
I27	09 Aug 2022	18	12.71	89.09	6.3	33.45	7.9	25.3	1.83
I27	09 Aug 2022	19	12.52	89.39	6.0	33.46	7.9	25.3	1.72
I27	09 Aug 2022	20	12.37	89.64	5.8	33.47	7.9	25.3	1.62
I27	09 Aug 2022	21	12.42	89.80	5.7	33.47	7.9	25.3	1.58
I27	09 Aug 2022	22	12.23	89.91	5.5	33.47	7.9	25.4	1.37
I27	09 Aug 2022	23	12.21	90.13	5.4	33.48	7.9	25.4	1.35
I27	09 Aug 2022	24	12.18	90.05	5.2	33.48	7.9	25.4	1.27
I27	09 Aug 2022	25	12.13	89.94	5.1	33.48	7.8	25.4	1.25
I27	09 Aug 2022	26	12.14	89.72	5.1	33.48	7.8	25.4	1.22
I27	09 Aug 2022	27	12.10	89.71	5.0	33.49	7.8	25.4	1.19
I27	09 Aug 2022	28	12.09	89.44	5.0	33.49	7.8	25.4	1.12
I28	10 Aug 2022	1	21.92	86.66	7.8	33.56	8.2	23.1	0.72
I28	10 Aug 2022	2	21.79	86.82	7.8	33.56	8.2	23.2	0.71
I28	10 Aug 2022	3	21.62	87.41	7.8	33.57	8.2	23.2	0.75
I28	10 Aug 2022	4	21.35	87.82	7.8	33.58	8.2	23.3	0.69
I28	10 Aug 2022	5	21.17	88.49	7.7	33.58	8.2	23.4	0.61
I28	10 Aug 2022	6	20.57	88.82	7.8	33.57	8.2	23.5	0.61
I28	10 Aug 2022	7	20.08	88.97	8.1	33.56	8.2	23.6	0.59
I28	10 Aug 2022	8	19.94	88.82	8.2	33.55	8.2	23.7	0.62
I28	10 Aug 2022	9	19.46	88.71	8.3	33.52	8.2	23.8	0.65
I28	10 Aug 2022	10	19.10	88.42	8.5	33.53	8.2	23.9	0.66
I28	10 Aug 2022	11	18.89	88.45	8.5	33.52	8.2	23.9	0.71
I28	10 Aug 2022	12	18.15	88.40	8.7	33.51	8.2	24.1	0.72
I28	10 Aug 2022	13	17.96	88.36	8.6	33.49	8.2	24.1	0.64
I28	10 Aug 2022	14	17.37	88.59	8.7	33.47	8.2	24.3	0.61
I28	10 Aug 2022	15	16.82	88.84	9.0	33.47	8.2	24.4	0.60
I28	10 Aug 2022	16	16.95	88.09	8.7	33.45	8.2	24.3	0.65
I28	10 Aug 2022	17	15.88	89.49	8.9	33.44	8.2	24.6	0.72
I28	10 Aug 2022	18	15.58	89.10	9.0	33.45	8.2	24.7	0.99
I28	10 Aug 2022	19	15.47	88.51	8.9	33.45	8.2	24.7	1.26
I28	10 Aug 2022	20	15.10	87.75	8.9	33.46	8.2	24.8	1.85
I28	10 Aug 2022	21	14.83	86.36	8.8	33.46	8.2	24.8	2.78
I28	10 Aug 2022	22	14.51	84.34	8.8	33.46	8.1	24.9	3.85
I28	10 Aug 2022	23	14.44	82.67	8.6	33.46	8.1	24.9	4.30
I28	10 Aug 2022	24	14.34	83.00	8.5	33.45	8.1	24.9	4.29
I28	10 Aug 2022	25	13.92	83.22	8.3	33.45	8.1	25.0	4.32
I28	10 Aug 2022	26	13.80	83.42	8.0	33.44	8.1	25.0	4.19
I28	10 Aug 2022	27	13.06	84.81	7.6	33.44	8.1	25.2	3.54
I28	10 Aug 2022	28	12.87	86.40	7.2	33.45	8.0	25.2	2.77
I28	10 Aug 2022	29	12.73	87.84	6.9	33.45	8.0	25.2	2.39
I28	10 Aug 2022	30	12.54	88.72	6.5	33.46	8.0	25.3	2.14
I28	10 Aug 2022	31	12.31	89.78	6.0	33.47	7.9	25.3	1.97
I28	10 Aug 2022	32	12.22	90.48	5.8	33.48	7.9	25.4	1.59
I28	10 Aug 2022	33	12.19	90.81	5.7	33.49	7.9	25.4	1.36
I28	10 Aug 2022	34	12.13	90.77	5.6	33.49	7.9	25.4	1.21

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma-t$ )	Chlor ( $\mu\text{g/L}$ )
I28	10 Aug 2022	35	11.99	91.16	5.5	33.50	7.9	25.4	1.26
I28	10 Aug 2022	36	11.92	91.31	5.3	33.51	7.9	25.4	1.11
I28	10 Aug 2022	37	11.84	91.49	5.3	33.52	7.8	25.5	1.02
I28	10 Aug 2022	38	11.85	91.53	5.2	33.52	7.8	25.5	1.01
I28	10 Aug 2022	39	11.63	91.48	5.0	33.53	7.8	25.5	0.92
I28	10 Aug 2022	40	11.56	91.74	5.0	33.54	7.8	25.5	0.88
I28	10 Aug 2022	41	11.52	91.71	4.9	33.55	7.8	25.5	0.81
I28	10 Aug 2022	42	11.46	91.65	4.9	33.55	7.8	25.6	0.73
I28	10 Aug 2022	43	11.44	91.77	4.8	33.56	7.8	25.6	0.69
I28	10 Aug 2022	44	11.41	91.89	4.8	33.56	7.8	25.6	0.64
I28	10 Aug 2022	45	11.33	91.94	4.7	33.58	7.8	25.6	0.58
I28	10 Aug 2022	46	11.26	91.90	4.6	33.59	7.8	25.6	0.57
I28	10 Aug 2022	47	11.20	91.82	4.6	33.59	7.8	25.6	0.48
I28	10 Aug 2022	48	11.17	91.69	4.6	33.60	7.8	25.7	0.44
I28	10 Aug 2022	49	11.15	91.73	4.6	33.60	7.8	25.7	0.44
I28	10 Aug 2022	50	11.14	91.64	4.6	33.60	7.8	25.7	0.42
I28	10 Aug 2022	51	11.11	91.48	4.5	33.61	7.8	25.7	0.40
I28	10 Aug 2022	52	10.97	91.07	4.4	33.64	7.8	25.7	0.37
I28	10 Aug 2022	53	10.92	89.52	4.3	33.66	7.8	25.7	0.35
I28	10 Aug 2022	54	10.92	88.51	4.2	33.66	7.8	25.7	0.39
I28	10 Aug 2022	55	10.92	88.39	4.2	33.66	7.8	25.7	0.33
I29	10 Aug 2022	1	18.85	82.43	7.7	33.51	8.1	23.9	1.33
I29	10 Aug 2022	2	17.93	82.33	7.1	33.49	8.1	24.1	1.64
I29	10 Aug 2022	3	16.48	78.74	6.8	33.51	8.0	24.5	2.24
I29	10 Aug 2022	4	15.84	80.94	7.2	33.47	8.0	24.6	2.02
I29	10 Aug 2022	5	15.68	83.21	7.3	33.46	8.0	24.6	1.82
I29	10 Aug 2022	6	15.60	84.05	7.3	33.46	8.0	24.7	1.80
I29	10 Aug 2022	7	15.57	84.36	7.3	33.47	8.0	24.7	1.77
I29	10 Aug 2022	8	15.37	85.53	7.4	33.45	8.0	24.7	1.63
I29	10 Aug 2022	9	14.66	86.46	7.5	33.44	8.1	24.8	1.25
I29	10 Aug 2022	10	13.86	87.64	7.4	33.44	8.0	25.0	1.25
I29	10 Aug 2022	11	13.50	87.82	7.4	33.44	8.0	25.1	1.32
I29	10 Aug 2022	12	13.36	87.96	7.2	33.43	8.0	25.1	1.38
I29	10 Aug 2022	13	13.09	88.38	7.0	33.45	8.0	25.2	1.43
I29	10 Aug 2022	14	12.95	88.62	6.8	33.45	8.0	25.2	1.64
I29	10 Aug 2022	15	12.74	89.18	6.5	33.46	8.0	25.3	1.88
I29	10 Aug 2022	16	12.66	89.40	6.3	33.46	7.9	25.3	2.22
I29	10 Aug 2022	17	12.57	89.32	6.1	33.47	7.9	25.3	1.78
I29	10 Aug 2022	18	12.47	89.16	6.0	33.47	7.9	25.3	2.09
I29	10 Aug 2022	19	12.31	88.81	5.8	33.48	7.9	25.4	2.03
I29	10 Aug 2022	20	12.07	90.02	5.5	33.49	7.9	25.4	1.50
I29	10 Aug 2022	21	11.99	90.57	5.3	33.49	7.8	25.4	1.16
I29	10 Aug 2022	22	11.97	90.82	5.2	33.49	7.8	25.4	1.08
I29	10 Aug 2022	23	11.96	90.79	5.1	33.50	7.8	25.4	1.05
I29	10 Aug 2022	24	11.97	90.66	5.1	33.50	7.8	25.4	1.09
I29	10 Aug 2022	25	11.96	90.58	5.1	33.50	7.8	25.4	1.03
I29	10 Aug 2022	26	11.94	90.62	5.0	33.50	7.8	25.4	0.98
I29	10 Aug 2022	27	11.94	90.42	5.0	33.51	7.8	25.4	1.00
I29	10 Aug 2022	28	11.94	90.55	5.0	33.51	7.8	25.4	0.99
I29	10 Aug 2022	29	11.93	90.65	5.0	33.51	7.8	25.4	1.03
I29	10 Aug 2022	30	11.91	90.45	4.9	33.51	7.8	25.4	0.90
I29	10 Aug 2022	31	11.90	90.42	4.8	33.51	7.8	25.4	0.92
I29	10 Aug 2022	32	11.91	90.27	4.8	33.51	7.8	25.4	0.91
I29	10 Aug 2022	33	11.90	90.19	4.8	33.51	7.8	25.4	0.98
I29	10 Aug 2022	34	11.90	90.12	4.8	33.51	7.8	25.5	0.94
I29	10 Aug 2022	35	11.90	90.22	4.8	33.51	7.8	25.5	0.95
I29	10 Aug 2022	36	11.90	89.95	4.8	33.51	7.8	25.5	0.95
I29	10 Aug 2022	37	11.90	90.11	4.7	33.51	7.8	25.5	0.90
I29	10 Aug 2022	38	11.90	90.10	4.7	33.51	7.8	25.5	0.89

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I3	11 Aug 2022	1	20.65	88.64	7.9	33.53	8.2	23.5	0.39
I3	11 Aug 2022	2	20.64	88.38	7.9	33.53	8.2	23.5	0.40
I3	11 Aug 2022	3	20.40	88.45	8.0	33.53	8.2	23.5	0.43
I3	11 Aug 2022	4	20.20	88.35	7.9	33.53	8.2	23.6	0.48
I3	11 Aug 2022	5	19.03	88.07	8.1	33.48	8.2	23.9	0.49
I3	11 Aug 2022	6	17.73	87.94	8.6	33.50	8.2	24.2	0.45
I3	11 Aug 2022	7	17.92	88.81	8.5	33.48	8.2	24.1	0.43
I3	11 Aug 2022	8	17.22	89.51	8.7	33.48	8.2	24.3	0.37
I3	11 Aug 2022	9	17.10	89.74	8.7	33.47	8.2	24.3	0.38
I3	11 Aug 2022	10	16.74	89.77	8.7	33.47	8.2	24.4	0.39
I3	11 Aug 2022	11	16.03	89.85	8.7	33.46	8.2	24.6	0.42
I3	11 Aug 2022	12	15.61	90.27	8.6	33.46	8.2	24.7	0.42
I3	11 Aug 2022	13	15.27	90.43	8.4	33.45	8.1	24.7	0.48
I3	11 Aug 2022	14	14.69	90.39	8.1	33.40	8.1	24.8	0.65
I3	11 Aug 2022	15	14.18	88.92	7.9	33.37	8.1	24.9	1.02
I3	11 Aug 2022	16	14.06	87.81	7.8	33.38	8.1	24.9	1.31
I3	11 Aug 2022	17	13.92	87.57	7.8	33.41	8.1	25.0	1.53
I3	11 Aug 2022	18	13.64	87.43	7.3	33.42	8.0	25.0	1.59
I3	11 Aug 2022	19	13.14	86.51	6.7	33.43	8.0	25.2	1.85
I3	11 Aug 2022	20	13.02	84.74	6.5	33.43	8.0	25.2	2.70
I3	11 Aug 2022	21	12.88	85.87	6.4	33.45	8.0	25.2	2.77
I3	11 Aug 2022	22	12.76	85.37	6.3	33.46	7.9	25.2	3.08
I3	11 Aug 2022	23	12.49	86.33	5.9	33.46	7.9	25.3	2.82
I3	11 Aug 2022	24	12.37	86.69	5.5	33.47	7.9	25.3	2.38
I3	11 Aug 2022	25	12.37	86.77	5.4	33.47	7.9	25.3	2.09
I3	11 Aug 2022	26	12.37	86.85	5.4	33.48	7.9	25.3	1.92
I3	11 Aug 2022	27	12.37	86.78	5.4	33.48	7.9	25.3	1.96
I30	10 Aug 2022	1	16.42	77.40	6.9	33.50	8.0	24.5	1.86
I30	10 Aug 2022	2	16.20	76.83	6.8	33.49	8.0	24.5	1.90
I30	10 Aug 2022	3	15.54	77.75	6.8	33.48	8.0	24.7	1.60
I30	10 Aug 2022	4	15.16	81.34	7.0	33.48	8.0	24.8	1.34
I30	10 Aug 2022	5	14.86	84.42	7.1	33.45	8.0	24.8	1.32
I30	10 Aug 2022	6	14.46	85.31	7.2	33.45	8.0	24.9	1.37
I30	10 Aug 2022	7	14.15	85.84	7.2	33.44	8.0	24.9	1.46
I30	10 Aug 2022	8	13.84	85.98	7.1	33.45	8.0	25.0	1.71
I30	10 Aug 2022	9	13.91	86.17	6.9	33.44	8.0	25.0	1.84
I30	10 Aug 2022	10	13.30	86.55	6.8	33.43	8.0	25.1	1.99
I30	10 Aug 2022	11	13.07	87.46	6.7	33.44	8.0	25.2	2.07
I30	10 Aug 2022	12	13.05	88.17	6.6	33.45	8.0	25.2	2.10
I30	10 Aug 2022	13	12.96	88.41	6.4	33.44	7.9	25.2	1.89
I30	10 Aug 2022	14	12.70	88.64	6.1	33.44	7.9	25.2	1.76
I30	10 Aug 2022	15	12.46	89.41	5.9	33.46	7.9	25.3	1.59
I30	10 Aug 2022	16	12.42	89.93	5.8	33.47	7.9	25.3	1.54
I30	10 Aug 2022	17	12.29	89.97	5.6	33.47	7.9	25.3	1.31
I30	10 Aug 2022	18	12.23	90.18	5.5	33.47	7.9	25.4	1.42
I30	10 Aug 2022	19	12.21	90.29	5.4	33.47	7.9	25.4	1.34
I30	10 Aug 2022	20	12.19	90.25	5.4	33.47	7.9	25.4	1.41
I30	10 Aug 2022	21	12.18	90.32	5.4	33.48	7.8	25.4	1.50
I30	10 Aug 2022	22	12.17	90.26	5.3	33.48	7.8	25.4	1.33
I30	10 Aug 2022	23	12.16	90.08	5.2	33.48	7.8	25.4	1.33
I30	10 Aug 2022	24	12.15	89.95	5.1	33.48	7.8	25.4	1.32
I30	10 Aug 2022	25	12.15	89.78	5.0	33.48	7.8	25.4	1.22
I30	10 Aug 2022	26	12.14	89.57	4.9	33.49	7.8	25.4	1.17
I30	10 Aug 2022	27	12.14	89.40	4.8	33.49	7.8	25.4	1.06
I30	10 Aug 2022	28	12.15	89.38	4.8	33.49	7.8	25.4	1.05
I31	10 Aug 2022	1	17.15	82.61	7.4	33.50	8.0	24.3	1.04
I31	10 Aug 2022	2	16.85	82.83	7.3	33.51	8.0	24.4	1.17
I31	10 Aug 2022	3	16.72	82.80	7.2	33.50	8.0	24.4	1.20
I31	10 Aug 2022	4	16.57	82.54	7.2	33.49	8.0	24.5	1.18

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I31	10 Aug 2022	5	16.34	83.49	7.0	33.49	8.0	24.5	1.15
I31	10 Aug 2022	6	15.77	84.29	6.9	33.48	8.0	24.6	1.15
I31	10 Aug 2022	7	15.50	85.01	6.8	33.48	8.0	24.7	1.19
I31	10 Aug 2022	8	15.13	84.89	6.9	33.46	8.0	24.8	1.28
I31	10 Aug 2022	9	14.50	85.98	7.3	33.45	8.0	24.9	1.35
I31	10 Aug 2022	10	14.24	87.14	7.4	33.44	8.0	24.9	1.55
I31	10 Aug 2022	11	14.04	87.22	7.3	33.44	8.0	25.0	1.69
I31	10 Aug 2022	12	13.83	86.78	7.1	33.43	8.0	25.0	1.79
I31	10 Aug 2022	13	13.42	86.35	6.9	33.43	8.0	25.1	2.15
I31	10 Aug 2022	14	13.08	85.83	6.5	33.44	8.0	25.2	2.83
I31	10 Aug 2022	15	12.76	85.59	6.0	33.44	7.9	25.2	2.76
I31	10 Aug 2022	16	12.56	87.26	5.5	33.45	7.9	25.3	1.99
I31	10 Aug 2022	17	12.51	87.66	5.3	33.45	7.9	25.3	1.62
I31	10 Aug 2022	18	12.51	87.82	5.3	33.46	7.8	25.3	1.47
I31	10 Aug 2022	19	12.51	88.12	5.3	33.46	7.8	25.3	1.47
I33	10 Aug 2022	1	19.01	83.86	7.8	33.53	8.1	23.9	1.28
I33	10 Aug 2022	2	19.36	83.45	7.6	33.50	8.1	23.8	1.25
I33	10 Aug 2022	3	18.26	80.66	7.7	33.52	8.1	24.1	1.27
I33	10 Aug 2022	4	18.25	83.28	7.7	33.51	8.1	24.1	1.33
I33	10 Aug 2022	5	18.72	83.12	7.5	33.50	8.1	23.9	1.34
I33	10 Aug 2022	6	18.18	83.14	7.6	33.51	8.1	24.1	1.41
I33	10 Aug 2022	7	18.22	83.15	7.5	33.50	8.1	24.1	1.49
I33	10 Aug 2022	8	17.86	82.80	7.0	33.51	8.0	24.2	1.69
I33	10 Aug 2022	9	16.50	81.28	6.7	33.51	8.0	24.5	2.65
I33	10 Aug 2022	10	15.56	79.00	6.7	33.48	8.0	24.7	3.14
I33	10 Aug 2022	11	15.46	78.93	6.8	33.47	8.0	24.7	2.85
I33	10 Aug 2022	12	15.43	81.24	6.9	33.47	8.0	24.7	2.67
I33	10 Aug 2022	13	15.06	82.38	6.8	33.45	8.0	24.8	2.57
I33	10 Aug 2022	14	13.97	83.79	6.9	33.45	8.0	25.0	2.09
I33	10 Aug 2022	15	13.04	85.93	6.6	33.45	8.0	25.2	1.75
I33	10 Aug 2022	16	12.76	88.46	6.2	33.46	7.9	25.2	1.49
I33	10 Aug 2022	17	12.70	89.34	6.0	33.46	7.9	25.3	1.36
I33	10 Aug 2022	18	12.61	89.58	5.9	33.46	7.9	25.3	1.33
I33	10 Aug 2022	19	12.53	89.76	5.8	33.47	7.9	25.3	1.39
I33	10 Aug 2022	20	12.45	89.91	5.8	33.47	7.9	25.3	1.39
I33	10 Aug 2022	21	12.41	90.11	5.8	33.47	7.9	25.3	1.42
I33	10 Aug 2022	22	12.38	90.03	5.7	33.48	7.9	25.3	1.50
I33	10 Aug 2022	23	12.41	90.24	5.7	33.48	7.9	25.3	1.33
I33	10 Aug 2022	24	12.31	90.31	5.7	33.48	7.9	25.4	1.19
I33	10 Aug 2022	25	12.29	90.05	5.6	33.48	7.9	25.4	1.20
I33	10 Aug 2022	26	12.25	90.22	5.5	33.49	7.9	25.4	1.39
I33	10 Aug 2022	27	12.23	90.43	5.4	33.49	7.8	25.4	1.27
I33	10 Aug 2022	28	12.18	90.67	5.3	33.49	7.8	25.4	1.16
I33	10 Aug 2022	29	12.05	90.68	5.1	33.50	7.8	25.4	0.97
I33	10 Aug 2022	30	12.05	90.44	5.0	33.51	7.8	25.4	1.04
I34	10 Aug 2022	1	16.25	76.35	6.5	33.53	7.9	24.6	2.83
I34	10 Aug 2022	2	16.27	71.65	6.3	33.52	7.9	24.6	2.99
I34	10 Aug 2022	3	15.17	76.31	6.3	33.50	7.9	24.8	3.01
I34	10 Aug 2022	4	14.72	80.33	6.5	33.48	7.9	24.9	2.62
I34	10 Aug 2022	5	14.29	84.02	6.6	33.46	7.9	24.9	2.53
I34	10 Aug 2022	6	13.30	85.21	6.5	33.45	7.9	25.1	2.37
I34	10 Aug 2022	7	12.81	86.83	6.1	33.46	7.9	25.2	2.11
I34	10 Aug 2022	8	12.84	87.67	6.0	33.45	7.9	25.2	2.22
I34	10 Aug 2022	9	12.78	87.55	5.9	33.46	7.9	25.2	2.30
I34	10 Aug 2022	10	12.80	87.54	5.9	33.46	7.9	25.2	2.37
I34	10 Aug 2022	11	12.78	87.44	5.9	33.46	7.9	25.2	2.44
I34	10 Aug 2022	12	12.78	87.44	5.8	33.46	7.9	25.2	2.34
I34	10 Aug 2022	13	12.79	87.70	5.8	33.47	7.9	25.2	2.29
I34	10 Aug 2022	14	12.72	87.66	5.7	33.47	7.9	25.3	2.26

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I34	10 Aug 2022	15	12.42	87.75	5.5	33.48	7.8	25.3	2.15
I34	10 Aug 2022	16	12.38	88.75	5.5	33.49	7.8	25.3	1.68
I34	10 Aug 2022	17	12.40	89.64	5.5	33.48	7.8	25.3	1.66
I34	10 Aug 2022	18	12.38	89.85	5.5	33.49	7.8	25.3	1.70
I34	10 Aug 2022	19	12.38	89.76	5.5	33.49	7.8	25.3	1.47
I35	10 Aug 2022	1	17.82	85.16	7.5	33.47	8.0	24.1	0.88
I35	10 Aug 2022	2	17.13	85.29	7.2	33.43	8.0	24.3	0.93
I35	10 Aug 2022	3	15.13	85.13	7.1	33.46	8.0	24.8	1.04
I35	10 Aug 2022	4	14.53	85.23	7.1	33.45	8.0	24.9	1.20
I35	10 Aug 2022	5	14.15	84.57	7.2	33.43	8.0	24.9	1.30
I35	10 Aug 2022	6	13.90	84.06	7.2	33.41	8.0	25.0	1.52
I35	10 Aug 2022	7	13.56	84.66	7.0	33.41	8.0	25.1	2.00
I35	10 Aug 2022	8	13.38	84.01	6.8	33.42	8.0	25.1	2.06
I35	10 Aug 2022	9	13.29	84.13	6.4	33.42	8.0	25.1	1.89
I35	10 Aug 2022	10	13.18	84.69	6.2	33.43	7.9	25.1	2.16
I35	10 Aug 2022	11	12.98	83.12	6.0	33.43	7.9	25.2	2.75
I35	10 Aug 2022	12	12.89	81.39	5.7	33.43	7.9	25.2	3.53
I35	10 Aug 2022	13	12.83	80.30	5.5	33.44	7.9	25.2	4.93
I35	10 Aug 2022	14	12.80	79.24	5.4	33.44	7.9	25.2	6.47
I35	10 Aug 2022	15	12.73	76.63	5.2	33.45	7.8	25.2	8.31
I35	10 Aug 2022	16	12.65	73.33	5.1	33.46	7.8	25.3	8.06
I35	10 Aug 2022	17	12.64	74.84	5.1	33.46	7.8	25.3	6.26
I35	10 Aug 2022	18	12.64	78.27	5.0	33.46	7.8	25.3	5.21
I35	10 Aug 2022	19	12.64	80.13	5.0	33.47	7.8	25.3	4.56
I36	10 Aug 2022	1	19.38	79.04	8.3	33.47	8.1	23.8	1.55
I36	10 Aug 2022	2	19.20	80.45	8.2	33.47	8.1	23.8	1.47
I36	10 Aug 2022	3	18.64	78.32	8.1	33.46	8.1	23.9	2.50
I36	10 Aug 2022	4	17.94	73.77	7.7	33.45	8.1	24.1	3.85
I36	10 Aug 2022	5	16.38	71.39	7.6	33.42	8.1	24.4	4.34
I36	10 Aug 2022	6	15.04	72.16	7.8	33.44	8.1	24.8	3.71
I36	10 Aug 2022	7	14.77	80.04	7.7	33.44	8.1	24.8	3.56
I36	10 Aug 2022	8	14.76	79.70	6.9	33.42	8.1	24.8	3.81
I36	10 Aug 2022	9	13.92	74.64	5.0	33.44	7.9	25.0	5.79
I36	10 Aug 2022	10	13.78	67.88	3.9	33.44	7.7	25.0	8.15
I36	10 Aug 2022	11	13.54	58.89	3.4	33.44	7.7	25.1	9.22
I37	10 Aug 2022	1	15.98	77.05	6.6	33.51	7.9	24.6	2.81
I37	10 Aug 2022	2	15.65	78.02	6.6	33.51	7.9	24.7	2.86
I37	10 Aug 2022	3	15.40	79.57	6.5	33.50	7.9	24.7	3.06
I37	10 Aug 2022	4	15.17	80.31	6.5	33.49	7.9	24.8	3.31
I37	10 Aug 2022	5	14.50	80.65	6.5	33.48	7.9	24.9	3.32
I37	10 Aug 2022	6	14.31	81.32	6.6	33.47	7.9	24.9	3.21
I37	10 Aug 2022	7	13.90	82.17	6.6	33.46	7.9	25.0	2.95
I37	10 Aug 2022	8	13.64	84.38	6.5	33.47	7.9	25.1	2.55
I37	10 Aug 2022	9	13.54	85.91	6.3	33.46	7.9	25.1	2.26
I37	10 Aug 2022	10	13.35	85.77	6.2	33.47	7.9	25.1	2.00
I37	10 Aug 2022	11	13.35	85.96	6.2	33.47	7.9	25.1	1.84
I37	10 Aug 2022	12	13.31	85.90	6.2	33.47	7.9	25.1	1.81
I38	10 Aug 2022	1	19.78	61.84	8.2	33.48	8.1	23.7	3.19
I38	10 Aug 2022	2	19.33	67.48	8.1	33.47	8.1	23.8	2.79
I38	10 Aug 2022	3	18.49	74.28	8.3	33.45	8.1	24.0	2.43
I38	10 Aug 2022	4	17.69	76.56	8.6	33.45	8.1	24.2	2.64
I38	10 Aug 2022	5	17.03	75.78	8.5	33.45	8.2	24.3	3.12
I38	10 Aug 2022	6	16.15	75.58	8.2	33.43	8.1	24.5	3.41
I38	10 Aug 2022	7	14.87	76.35	7.7	33.44	8.1	24.8	3.50
I38	10 Aug 2022	8	14.47	76.42	6.5	33.44	8.0	24.9	3.68
I38	10 Aug 2022	9	14.17	74.43	5.7	33.43	7.9	24.9	4.00
I38	10 Aug 2022	10	13.91	74.20	5.6	33.42	7.9	25.0	4.52

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I38	10 Aug 2022	11	13.76	75.22	4.7	33.44	7.9	25.0	6.26
I4	11 Aug 2022	1	19.88	86.77	7.9	33.48	8.1	23.6	0.50
I4	11 Aug 2022	2	19.47	86.97	7.8	33.57	8.1	23.8	0.51
I4	11 Aug 2022	3	18.33	87.69	8.0	33.55	8.1	24.1	0.50
I4	11 Aug 2022	4	18.06	88.42	7.9	33.52	8.1	24.1	0.48
I4	11 Aug 2022	5	17.41	88.86	7.7	33.53	8.1	24.3	0.49
I4	11 Aug 2022	6	17.35	88.58	7.6	33.48	8.1	24.3	0.57
I4	11 Aug 2022	7	16.11	88.77	7.7	33.52	8.1	24.6	0.58
I4	11 Aug 2022	8	15.34	89.22	7.9	33.48	8.1	24.7	0.59
I4	11 Aug 2022	9	15.29	89.65	7.8	33.46	8.1	24.7	0.58
I4	11 Aug 2022	10	14.96	88.49	7.6	33.46	8.1	24.8	0.66
I4	11 Aug 2022	11	14.68	84.96	7.1	33.46	8.0	24.9	1.06
I4	11 Aug 2022	12	13.99	81.41	6.6	33.47	8.0	25.0	1.57
I4	11 Aug 2022	13	13.21	79.83	6.1	33.48	7.9	25.2	2.51
I4	11 Aug 2022	14	12.86	77.09	5.6	33.47	7.9	25.2	3.60
I4	11 Aug 2022	15	12.69	77.49	5.3	33.46	7.9	25.3	3.62
I4	11 Aug 2022	16	12.68	77.59	5.2	33.46	7.8	25.3	3.54
I4	11 Aug 2022	17	12.68	77.54	5.2	33.46	7.8	25.3	3.52
I4	11 Aug 2022	18	12.67	77.56	5.2	33.47	7.8	25.3	3.47
I5	11 Aug 2022	1	20.08	85.47	8.0	33.51	8.1	23.6	0.75
I5	11 Aug 2022	2	19.31	83.30	7.9	33.50	8.1	23.8	0.79
I5	11 Aug 2022	3	18.86	83.05	7.8	33.49	8.1	23.9	0.94
I5	11 Aug 2022	4	18.69	81.05	7.7	33.48	8.1	23.9	1.29
I5	11 Aug 2022	5	17.99	79.78	7.5	33.46	8.1	24.1	1.75
I5	11 Aug 2022	6	17.48	75.48	7.4	33.45	8.1	24.2	3.08
I5	11 Aug 2022	7	17.08	69.01	7.4	33.43	8.1	24.3	4.20
I5	11 Aug 2022	8	16.11	68.54	7.3	33.42	8.0	24.5	5.29
I5	11 Aug 2022	9	15.88	67.79	6.9	33.41	8.0	24.6	5.90
I5	11 Aug 2022	10	14.83	67.36	6.3	33.42	8.0	24.8	5.55
I5	11 Aug 2022	11	13.86	69.55	5.6	33.43	7.9	25.0	5.21
I5	11 Aug 2022	12	13.26	67.94	5.0	33.43	7.8	25.1	4.42
I5	11 Aug 2022	13	13.22	63.51	4.8	33.44	7.8	25.1	4.02
I5	11 Aug 2022	14	13.08	60.33	4.8	33.44	7.8	25.2	3.67
I6	11 Aug 2022	1	20.25	87.63	7.7	33.52	8.1	23.6	0.43
I6	11 Aug 2022	2	19.95	87.55	7.8	33.52	8.1	23.6	0.45
I6	11 Aug 2022	3	19.47	87.47	7.9	33.52	8.1	23.8	0.45
I6	11 Aug 2022	4	19.20	87.83	7.9	33.51	8.1	23.8	0.45
I6	11 Aug 2022	5	17.85	87.95	8.3	33.49	8.2	24.2	0.46
I6	11 Aug 2022	6	17.03	88.30	8.4	33.48	8.2	24.3	0.42
I6	11 Aug 2022	7	16.36	88.88	8.6	33.48	8.2	24.5	0.40
I6	11 Aug 2022	8	16.20	89.51	8.5	33.47	8.2	24.5	0.41
I6	11 Aug 2022	9	15.72	89.50	8.4	33.46	8.1	24.6	0.42
I6	11 Aug 2022	10	15.39	89.81	8.5	33.45	8.1	24.7	0.51
I6	11 Aug 2022	11	15.35	90.04	8.2	33.44	8.1	24.7	0.53
I6	11 Aug 2022	12	14.56	89.77	7.9	33.38	8.1	24.8	0.70
I6	11 Aug 2022	13	14.34	89.43	7.6	33.37	8.1	24.9	0.97
I6	11 Aug 2022	14	13.90	88.53	7.5	33.37	8.1	24.9	1.32
I6	11 Aug 2022	15	13.75	87.48	7.3	33.42	8.0	25.0	1.55
I6	11 Aug 2022	16	13.45	87.13	7.0	33.43	8.0	25.1	1.83
I6	11 Aug 2022	17	13.13	85.56	6.7	33.44	8.0	25.2	2.81
I6	11 Aug 2022	18	12.92	77.19	6.5	33.45	8.0	25.2	8.68
I6	11 Aug 2022	19	12.86	76.95	6.4	33.45	8.0	25.2	10.21
I6	11 Aug 2022	20	12.68	80.47	6.1	33.45	7.9	25.3	7.62
I6	11 Aug 2022	21	12.50	82.67	5.8	33.46	7.9	25.3	4.71
I6	11 Aug 2022	22	12.60	82.73	5.7	33.46	7.9	25.3	3.77
I6	11 Aug 2022	23	12.44	85.19	5.5	33.47	7.9	25.3	3.14
I6	11 Aug 2022	24	12.45	85.89	5.4	33.47	7.9	25.3	2.60
I6	11 Aug 2022	25	12.44	85.94	5.3	33.47	7.9	25.3	2.23

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I6	11 Aug 2022	26	12.45	86.18	5.4	33.48	7.9	25.3	2.10
I7	11 Aug 2022	1	22.36	90.72	7.2	33.63	8.2	23.1	0.30
I7	11 Aug 2022	2	22.35	90.74	7.2	33.63	8.2	23.1	0.29
I7	11 Aug 2022	3	22.13	90.70	7.2	33.63	8.2	23.1	0.30
I7	11 Aug 2022	4	21.79	90.69	7.2	33.61	8.2	23.2	0.32
I7	11 Aug 2022	5	20.77	90.60	7.5	33.57	8.2	23.5	0.38
I7	11 Aug 2022	6	19.69	90.17	7.9	33.52	8.2	23.7	0.41
I7	11 Aug 2022	7	19.19	90.17	8.2	33.51	8.2	23.8	0.40
I7	11 Aug 2022	8	18.66	90.47	8.3	33.47	8.2	23.9	0.41
I7	11 Aug 2022	9	17.84	90.35	8.6	33.46	8.2	24.1	0.43
I7	11 Aug 2022	10	17.35	90.61	8.8	33.44	8.2	24.2	0.41
I7	11 Aug 2022	11	17.02	90.62	8.8	33.44	8.2	24.3	0.42
I7	11 Aug 2022	12	16.80	90.20	8.9	33.44	8.2	24.4	0.46
I7	11 Aug 2022	13	16.75	90.46	8.5	33.42	8.2	24.4	0.51
I7	11 Aug 2022	14	15.68	90.08	8.5	33.44	8.2	24.6	0.58
I7	11 Aug 2022	15	14.78	88.85	8.5	33.44	8.1	24.8	0.79
I7	11 Aug 2022	16	14.42	86.13	8.2	33.44	8.1	24.9	1.29
I7	11 Aug 2022	17	13.82	83.91	8.0	33.44	8.1	25.0	2.23
I7	11 Aug 2022	18	13.69	83.12	7.8	33.43	8.1	25.0	2.99
I7	11 Aug 2022	19	13.63	82.25	7.8	33.44	8.1	25.1	3.78
I7	11 Aug 2022	20	13.42	83.27	7.4	33.44	8.0	25.1	3.83
I7	11 Aug 2022	21	13.10	86.80	7.0	33.45	8.0	25.2	3.08
I7	11 Aug 2022	22	12.88	87.71	6.8	33.45	8.0	25.2	2.82
I7	11 Aug 2022	23	12.70	87.97	6.6	33.45	8.0	25.3	2.45
I7	11 Aug 2022	24	12.71	89.16	6.5	33.46	7.9	25.3	2.18
I7	11 Aug 2022	25	12.59	89.48	6.3	33.46	7.9	25.3	2.10
I7	11 Aug 2022	26	12.44	89.94	6.1	33.47	7.9	25.3	1.87
I7	11 Aug 2022	27	12.40	90.18	6.1	33.48	7.9	25.3	1.73
I7	11 Aug 2022	28	12.39	90.42	6.0	33.48	7.9	25.3	1.67
I7	11 Aug 2022	29	12.34	90.46	6.0	33.48	7.9	25.3	1.58
I7	11 Aug 2022	30	12.30	90.64	5.9	33.48	7.9	25.4	1.46
I7	11 Aug 2022	31	12.27	90.66	5.9	33.49	7.9	25.4	1.41
I7	11 Aug 2022	32	12.21	90.86	5.8	33.49	7.9	25.4	1.37
I7	11 Aug 2022	33	12.18	90.91	5.8	33.49	7.9	25.4	1.26
I7	11 Aug 2022	34	12.17	91.03	5.7	33.49	7.9	25.4	1.28
I7	11 Aug 2022	35	12.14	90.94	5.6	33.49	7.9	25.4	1.23
I7	11 Aug 2022	36	12.11	90.88	5.5	33.50	7.9	25.4	1.18
I7	11 Aug 2022	37	12.00	90.86	5.4	33.50	7.8	25.4	1.17
I7	11 Aug 2022	38	11.92	90.79	5.3	33.51	7.8	25.4	1.13
I7	11 Aug 2022	39	11.91	90.86	5.3	33.51	7.8	25.4	1.11
I7	11 Aug 2022	40	11.88	90.80	5.2	33.51	7.8	25.5	1.07
I7	11 Aug 2022	41	11.86	90.76	5.2	33.51	7.8	25.5	1.09
I7	11 Aug 2022	42	11.86	90.69	5.2	33.51	7.8	25.5	1.13
I7	11 Aug 2022	43	11.83	90.69	5.2	33.51	7.8	25.5	1.06
I7	11 Aug 2022	44	11.76	90.68	5.1	33.52	7.8	25.5	1.05
I7	11 Aug 2022	45	11.73	90.68	5.1	33.52	7.8	25.5	0.98
I7	11 Aug 2022	46	11.69	90.67	5.1	33.52	7.8	25.5	0.98
I7	11 Aug 2022	47	11.60	90.98	5.2	33.53	7.8	25.5	0.94
I7	11 Aug 2022	48	11.52	91.42	5.2	33.53	7.8	25.5	0.89
I7	11 Aug 2022	49	11.40	91.49	5.1	33.55	7.8	25.6	0.82
I7	11 Aug 2022	50	11.32	91.48	5.0	33.57	7.8	25.6	0.70
I7	11 Aug 2022	51	11.18	91.33	4.9	33.60	7.8	25.7	0.60
I8	11 Aug 2022	1	20.45	89.56	8.0	33.57	8.2	23.6	0.31
I8	11 Aug 2022	2	20.15	89.41	7.9	33.55	8.2	23.6	0.33
I8	11 Aug 2022	3	19.02	88.75	8.2	33.54	8.2	23.9	0.36
I8	11 Aug 2022	4	18.97	88.76	8.2	33.52	8.2	23.9	0.38
I8	11 Aug 2022	5	18.12	88.88	8.3	33.50	8.2	24.1	0.38
I8	11 Aug 2022	6	17.80	88.83	8.4	33.50	8.2	24.2	0.41
I8	11 Aug 2022	7	17.49	88.97	8.6	33.48	8.2	24.2	0.41

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I8	11 Aug 2022	8	17.18	88.83	8.6	33.48	8.2	24.3	0.43
I8	11 Aug 2022	9	16.91	88.76	8.5	33.45	8.2	24.4	0.47
I8	11 Aug 2022	10	15.95	88.67	8.8	33.45	8.2	24.6	0.51
I8	11 Aug 2022	11	15.56	88.07	8.8	33.45	8.2	24.7	0.53
I8	11 Aug 2022	12	14.93	87.06	8.8	33.46	8.2	24.8	0.62
I8	11 Aug 2022	13	14.80	86.37	8.8	33.46	8.2	24.8	0.79
I8	11 Aug 2022	14	14.30	86.12	8.7	33.45	8.2	24.9	1.18
I8	11 Aug 2022	15	14.21	85.88	8.6	33.44	8.2	24.9	1.27
I8	11 Aug 2022	16	14.07	86.16	8.4	33.43	8.1	25.0	1.22
I8	11 Aug 2022	17	13.82	86.99	8.3	33.43	8.1	25.0	1.19
I8	11 Aug 2022	18	13.70	88.00	8.1	33.42	8.1	25.0	1.18
I8	11 Aug 2022	19	13.44	87.97	7.8	33.41	8.1	25.1	1.36
I8	11 Aug 2022	20	13.18	87.94	7.5	33.44	8.1	25.1	1.50
I8	11 Aug 2022	21	13.16	87.64	7.3	33.44	8.0	25.2	1.94
I8	11 Aug 2022	22	12.96	85.77	7.1	33.45	8.0	25.2	2.73
I8	11 Aug 2022	23	12.63	84.07	6.7	33.46	8.0	25.3	3.30
I8	11 Aug 2022	24	12.49	86.45	6.4	33.48	8.0	25.3	2.88
I8	11 Aug 2022	25	12.42	88.71	6.2	33.47	8.0	25.3	2.58
I8	11 Aug 2022	26	12.24	89.06	5.9	33.48	7.9	25.4	2.14
I8	11 Aug 2022	27	12.20	89.56	5.7	33.48	7.9	25.4	1.96
I8	11 Aug 2022	28	12.17	89.69	5.6	33.48	7.9	25.4	1.77
I8	11 Aug 2022	29	12.13	89.83	5.5	33.49	7.9	25.4	1.76
I8	11 Aug 2022	30	12.10	89.94	5.5	33.49	7.9	25.4	1.50
I8	11 Aug 2022	31	12.07	89.91	5.4	33.49	7.9	25.4	1.58
I8	11 Aug 2022	32	12.07	89.87	5.4	33.49	7.9	25.4	1.50
I8	11 Aug 2022	33	12.06	89.71	5.3	33.49	7.9	25.4	1.49
I8	11 Aug 2022	34	12.05	89.72	5.3	33.49	7.9	25.4	1.55
I8	11 Aug 2022	35	12.05	89.71	5.3	33.49	7.9	25.4	1.50
I8	11 Aug 2022	36	12.05	89.68	5.3	33.50	7.9	25.4	1.45
I9	11 Aug 2022	1	19.34	85.75	8.1	33.53	8.2	23.8	0.43
I9	11 Aug 2022	2	19.57	85.00	8.0	33.52	8.2	23.7	0.44
I9	11 Aug 2022	3	18.55	85.38	8.2	33.50	8.2	24.0	0.42
I9	11 Aug 2022	4	17.44	87.00	8.6	33.51	8.2	24.3	0.39
I9	11 Aug 2022	5	17.23	87.49	8.6	33.49	8.2	24.3	0.36
I9	11 Aug 2022	6	16.37	87.83	8.6	33.47	8.2	24.5	0.38
I9	11 Aug 2022	7	16.04	88.61	8.6	33.48	8.2	24.6	0.38
I9	11 Aug 2022	8	15.69	88.78	8.4	33.46	8.2	24.6	0.41
I9	11 Aug 2022	9	15.03	88.95	8.4	33.42	8.1	24.7	0.51
I9	11 Aug 2022	10	14.92	88.86	8.2	33.42	8.1	24.8	0.58
I9	11 Aug 2022	11	14.55	89.27	8.0	33.40	8.1	24.8	0.69
I9	11 Aug 2022	12	13.92	89.11	7.7	33.37	8.1	24.9	0.96
I9	11 Aug 2022	13	13.75	88.39	7.5	33.34	8.1	25.0	1.10
I9	11 Aug 2022	14	13.69	88.13	7.4	33.34	8.0	25.0	1.26
I9	11 Aug 2022	15	13.52	87.89	7.3	33.37	8.0	25.0	1.76
I9	11 Aug 2022	16	13.27	85.93	7.2	33.34	8.0	25.1	2.54
I9	11 Aug 2022	17	13.32	85.19	7.0	33.36	8.0	25.1	2.79
I9	11 Aug 2022	18	12.98	84.26	6.8	33.42	8.0	25.2	3.14
I9	11 Aug 2022	19	13.02	84.16	6.6	33.41	8.0	25.2	3.59
I9	11 Aug 2022	20	12.63	84.93	6.2	33.46	7.9	25.3	3.26
I9	11 Aug 2022	21	12.56	86.02	5.9	33.47	7.9	25.3	3.26
I9	11 Aug 2022	22	12.49	86.78	5.8	33.47	7.9	25.3	2.96
I9	11 Aug 2022	23	12.47	87.22	5.6	33.47	7.9	25.3	2.64
I9	11 Aug 2022	24	12.42	87.67	5.5	33.47	7.9	25.3	2.51
I9	11 Aug 2022	25	12.33	87.83	5.3	33.48	7.9	25.3	2.10
I9	11 Aug 2022	26	12.32	87.41	5.2	33.48	7.8	25.3	1.85
I9	11 Aug 2022	27	12.30	87.56	5.1	33.48	7.8	25.4	1.73
I9	11 Aug 2022	28	12.30	87.54	5.1	33.48	7.8	25.4	1.62
I9	11 Aug 2022	29	12.30	87.79	5.1	33.48	7.8	25.4	1.65

NA = not available

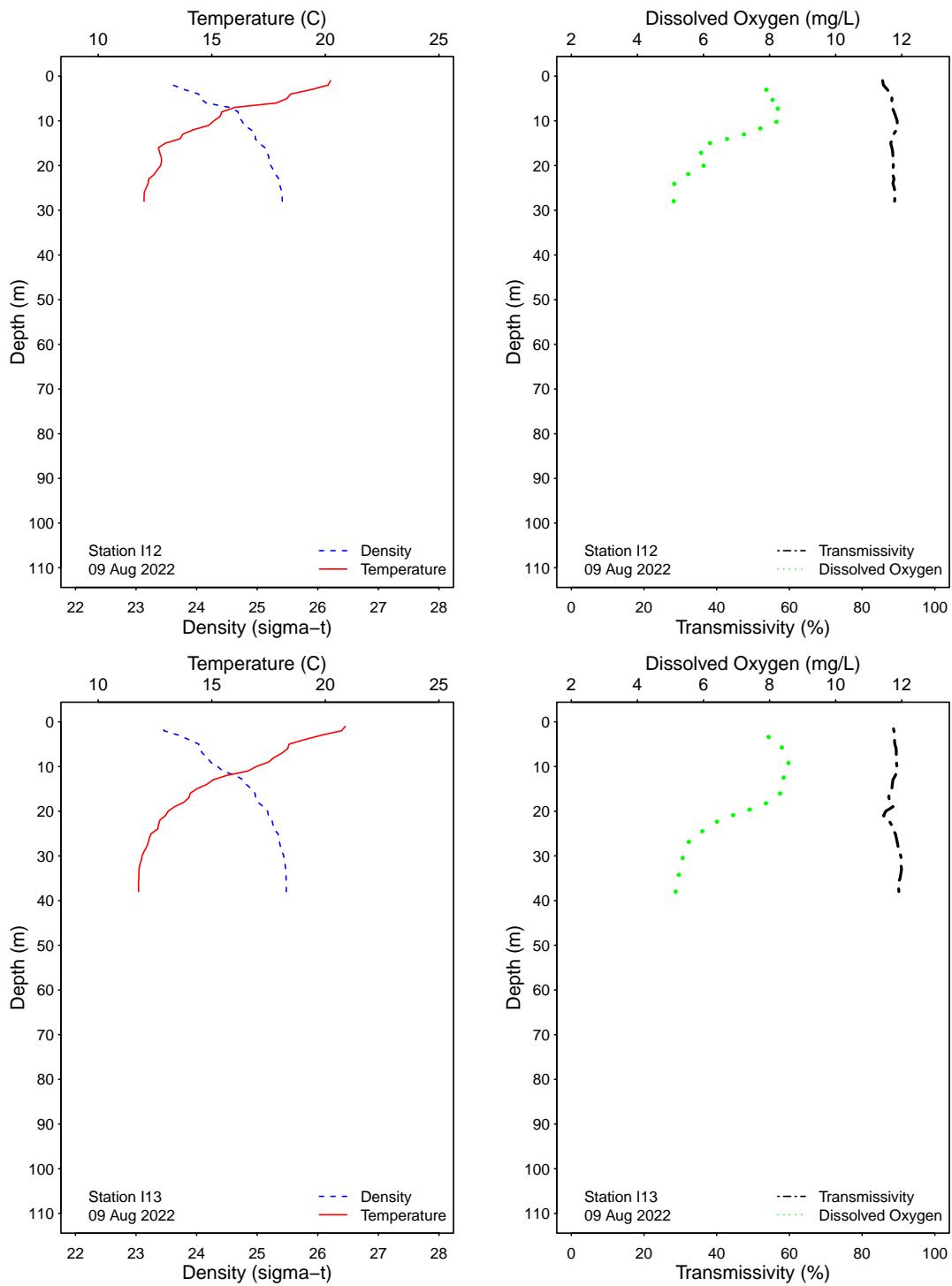


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

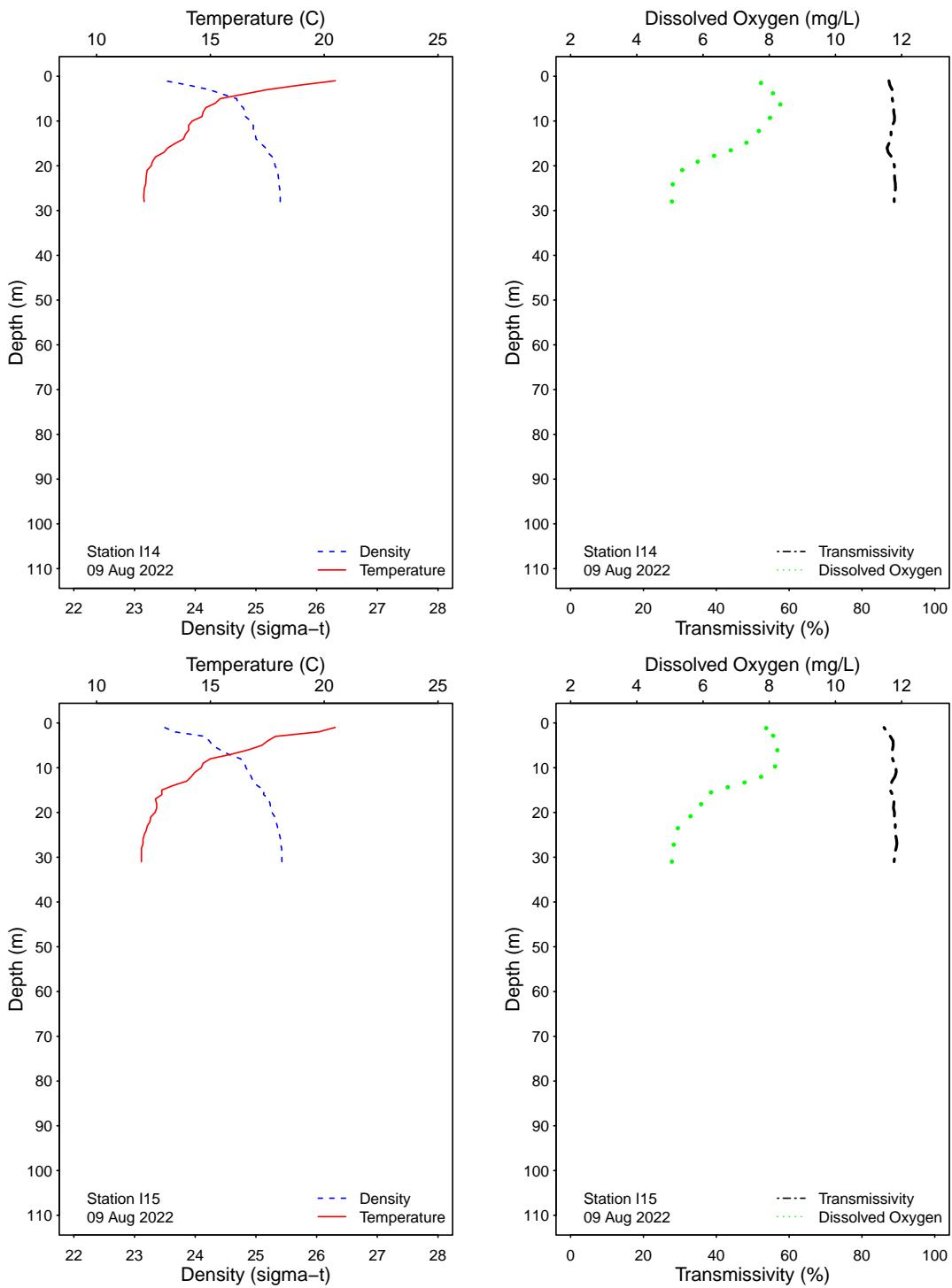


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

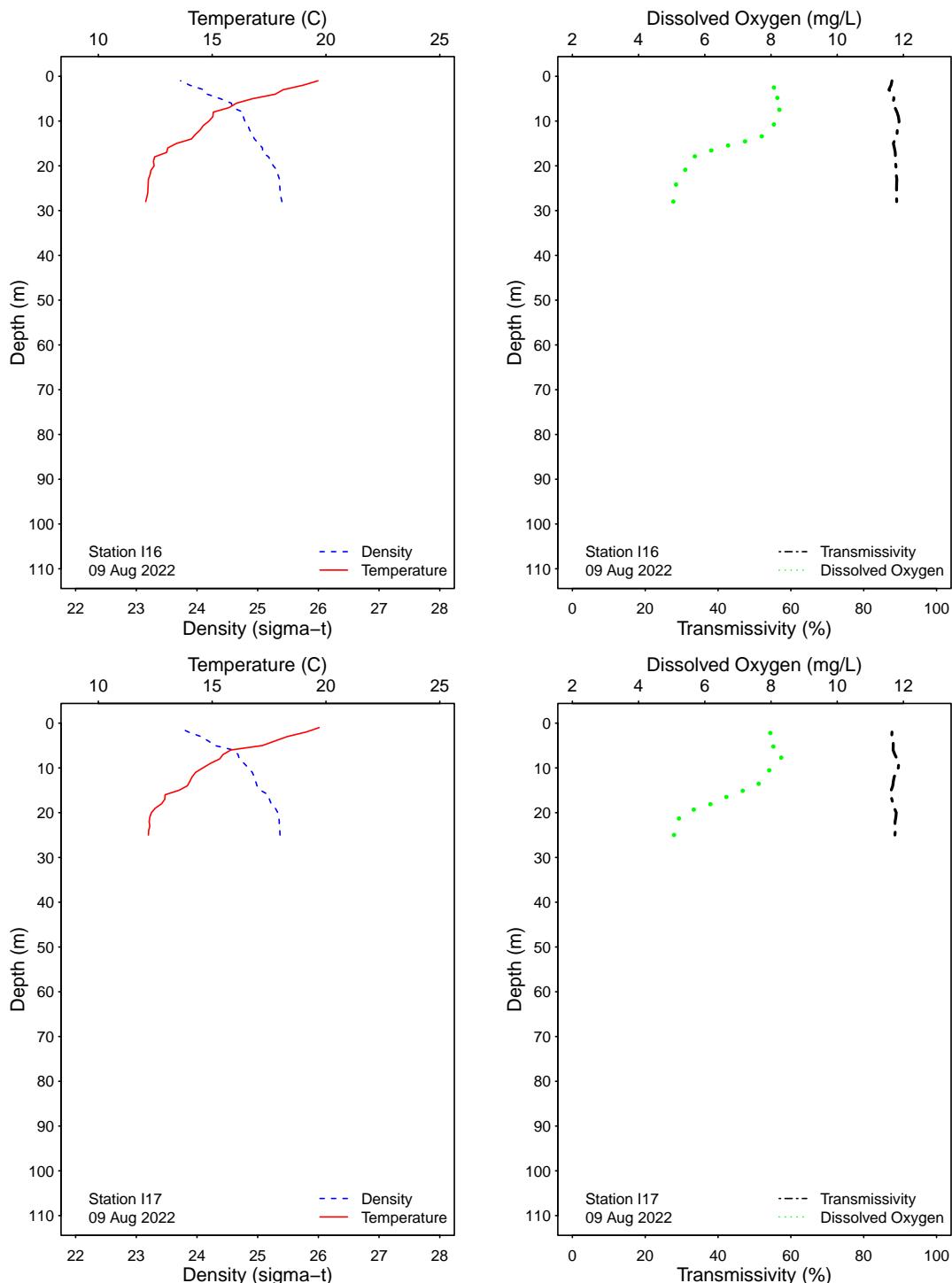


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

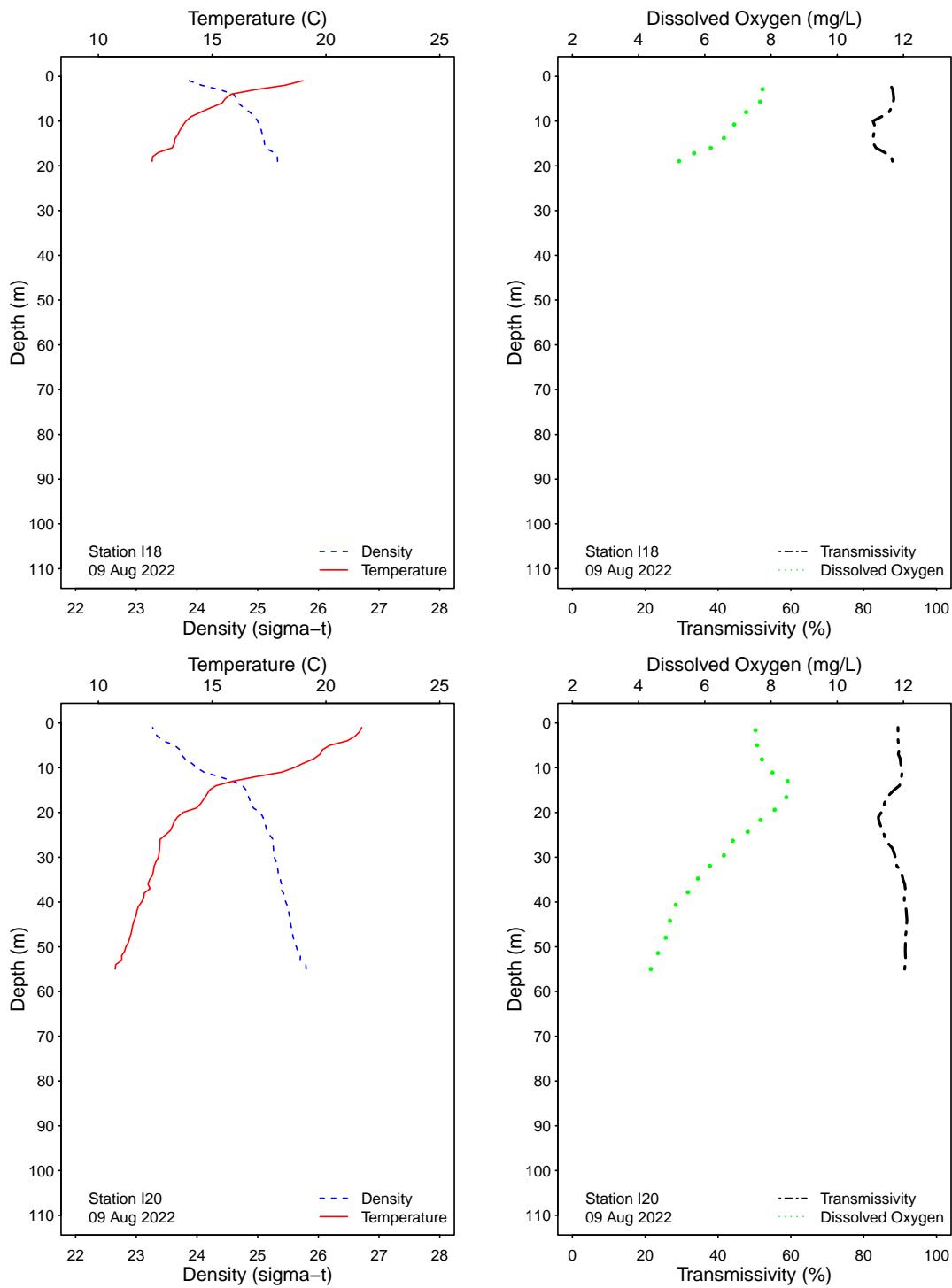


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

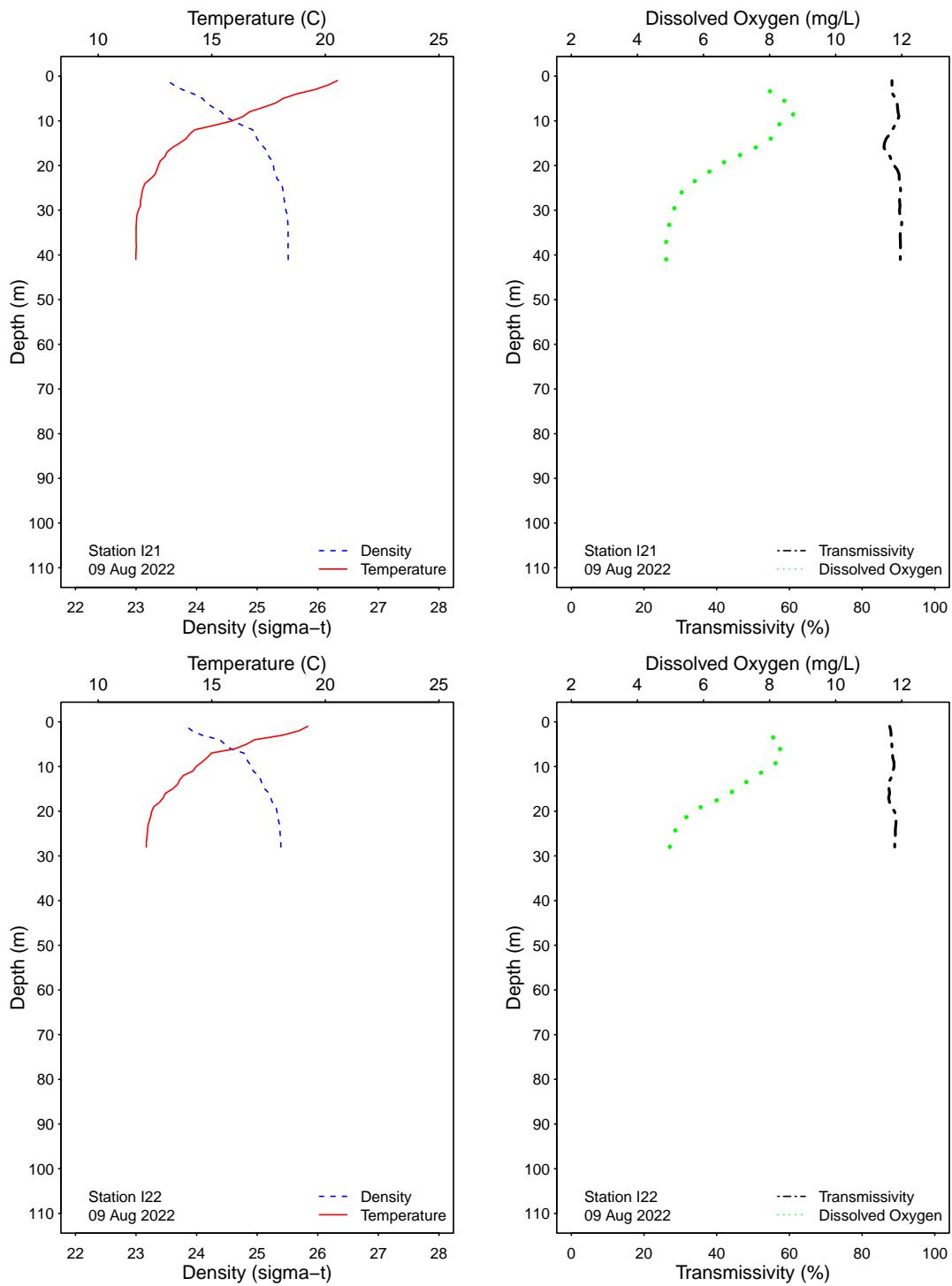


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

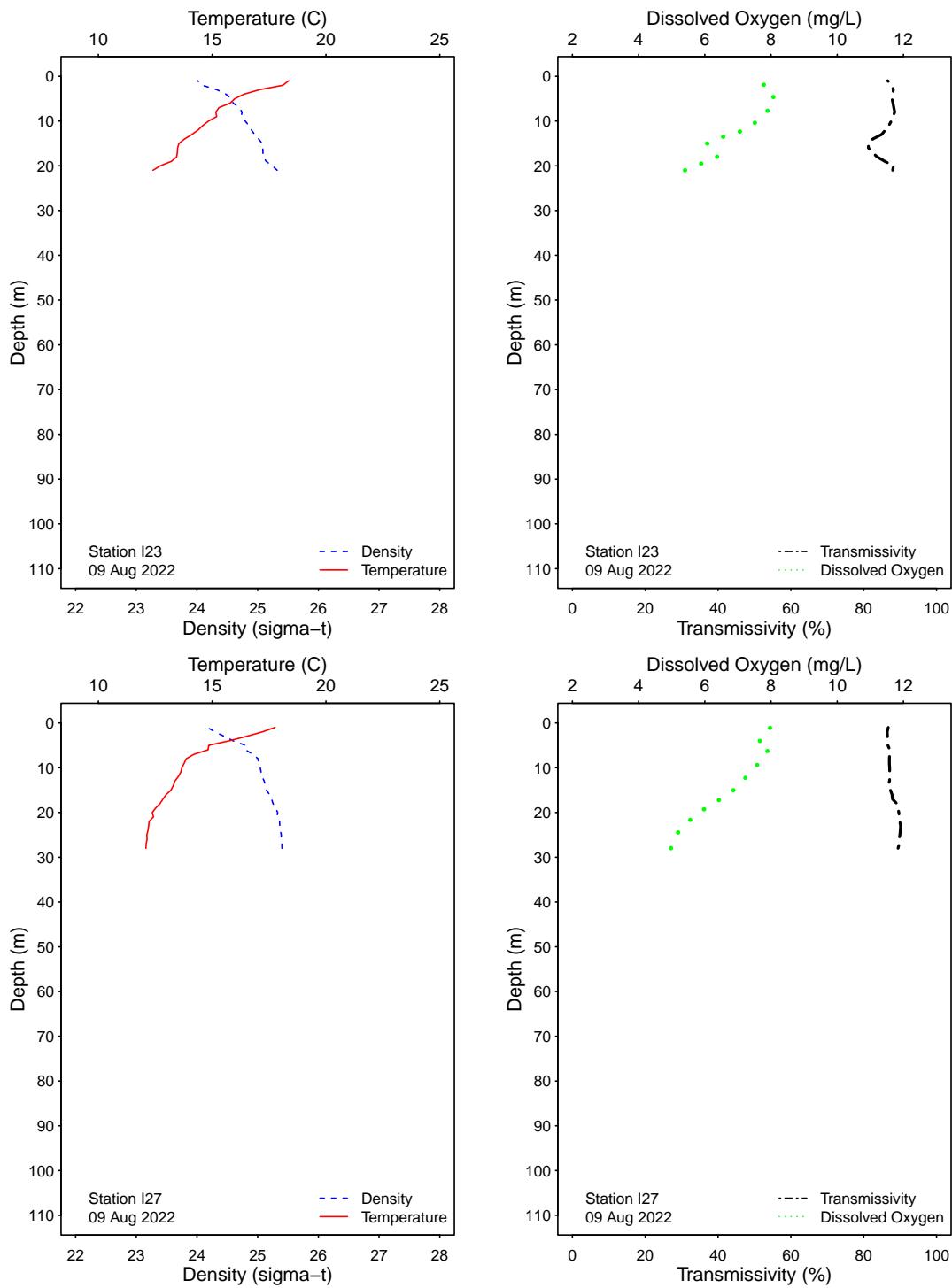


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

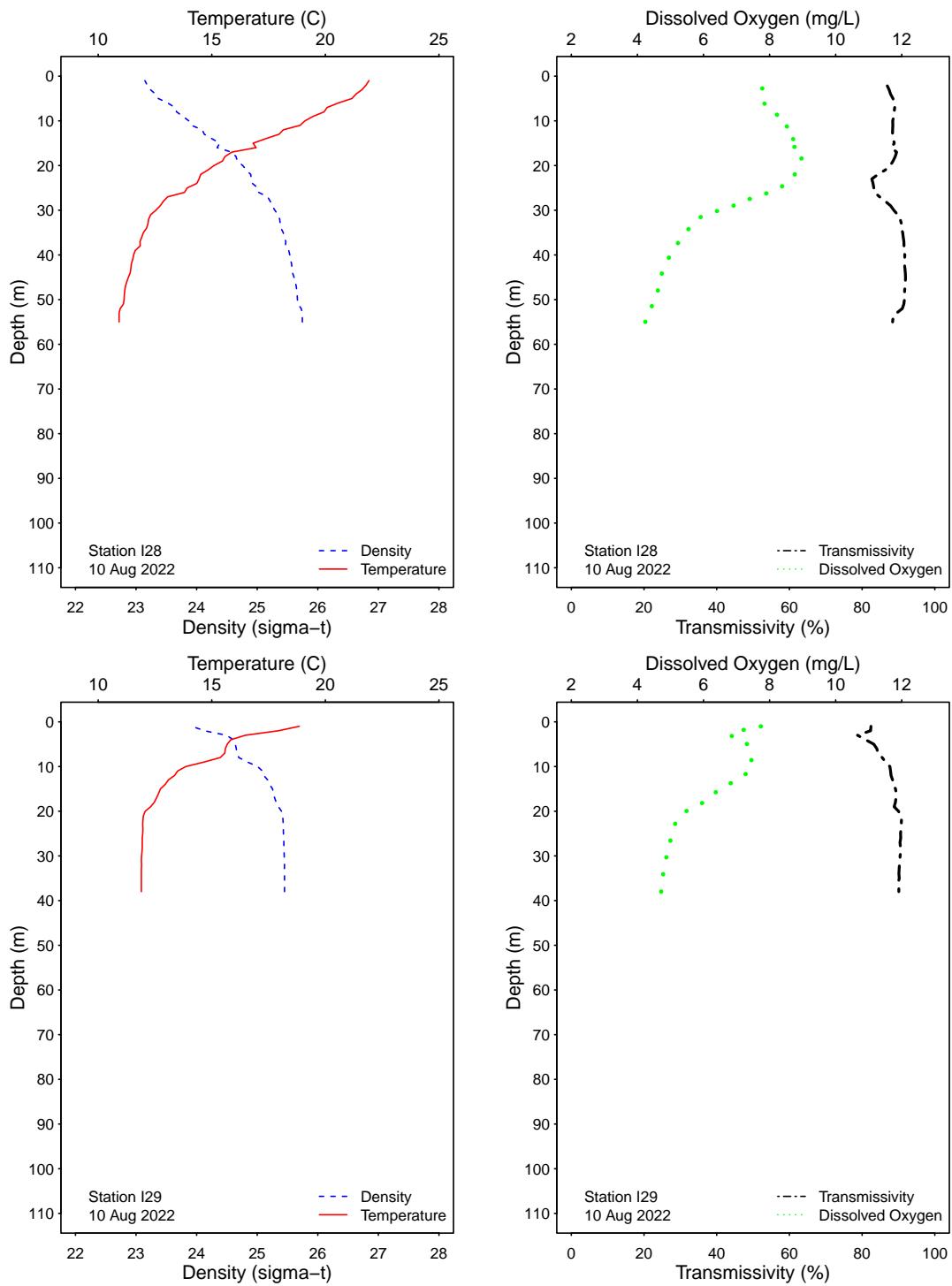


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

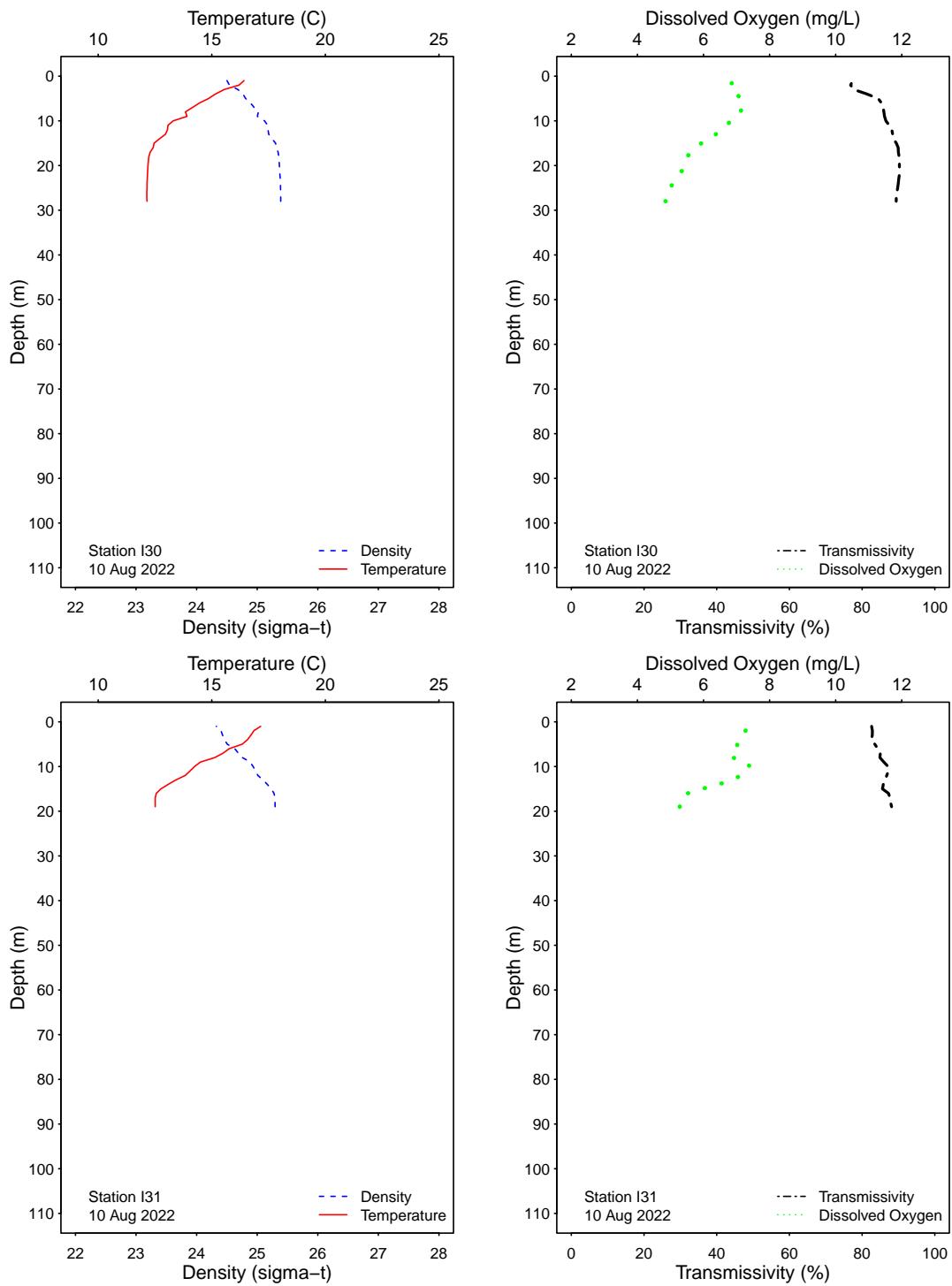


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

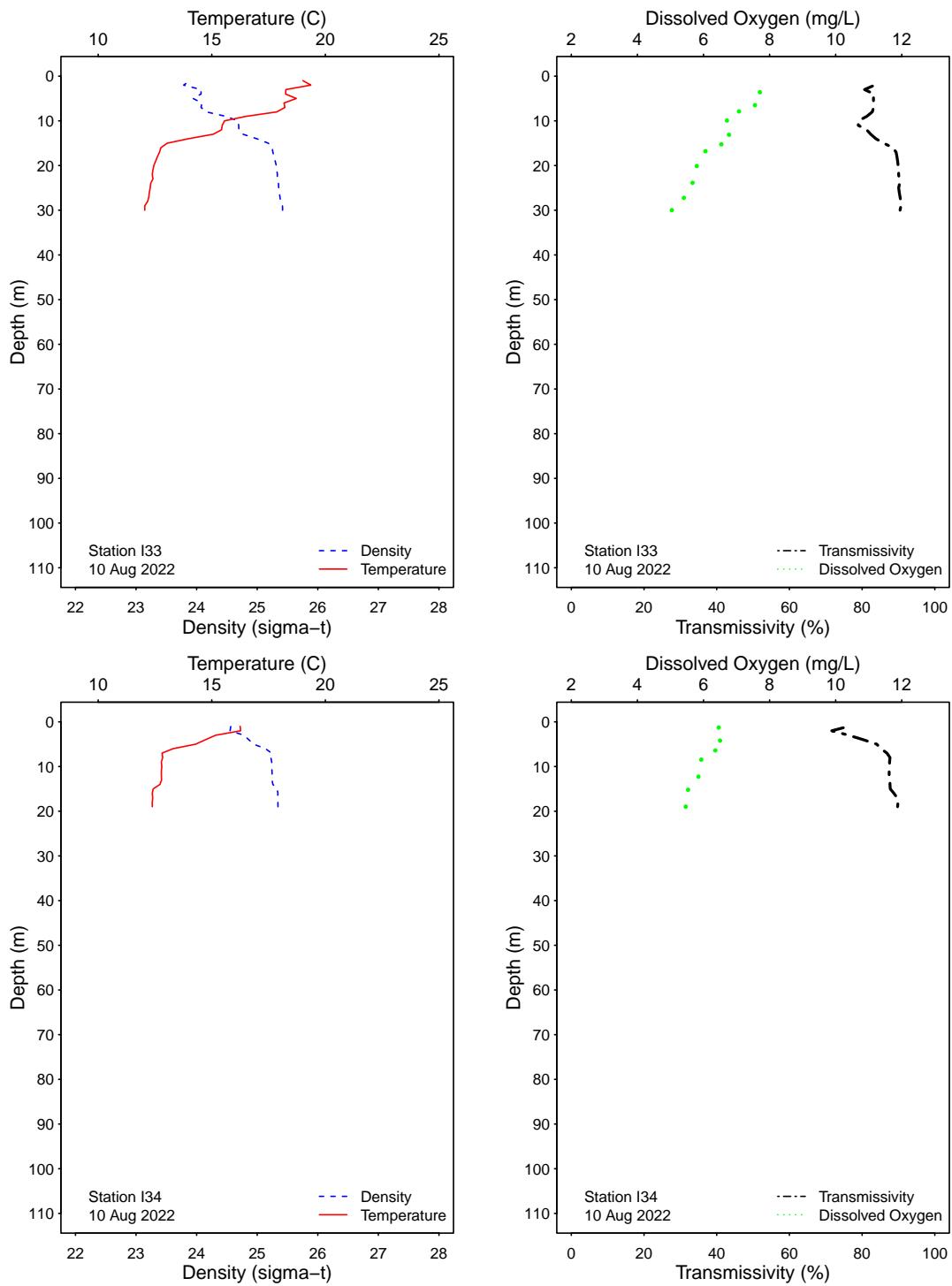


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

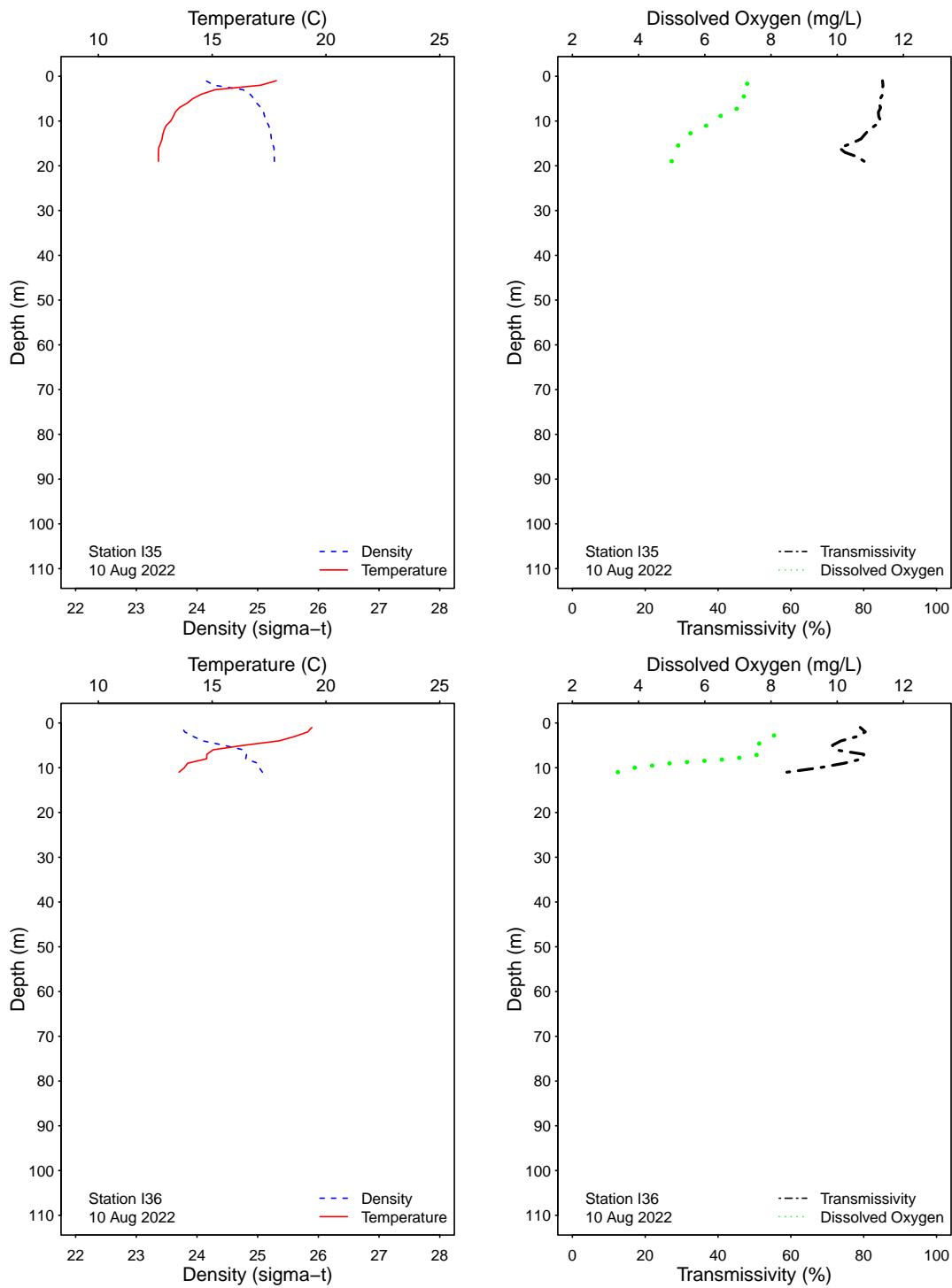


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

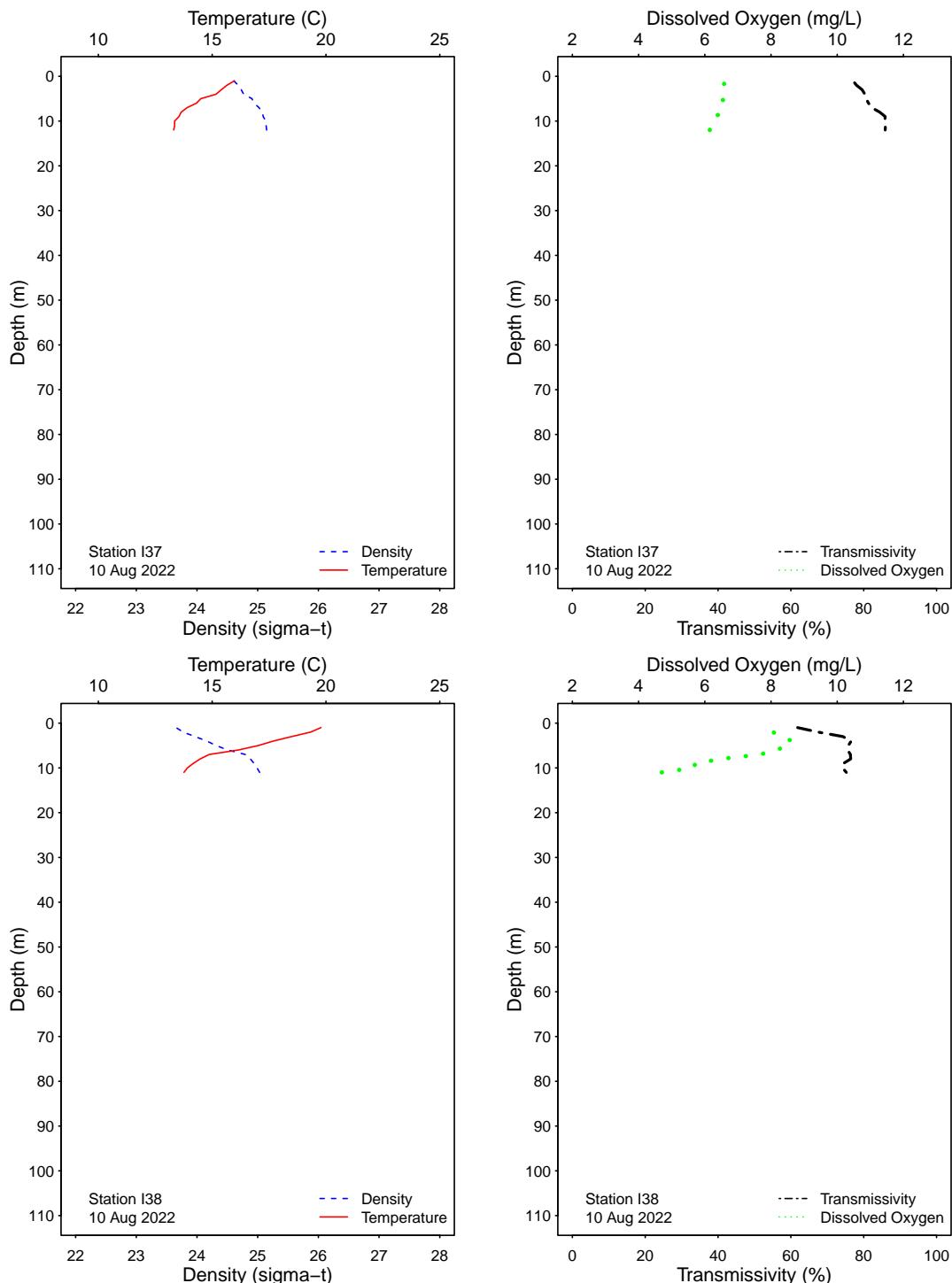


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

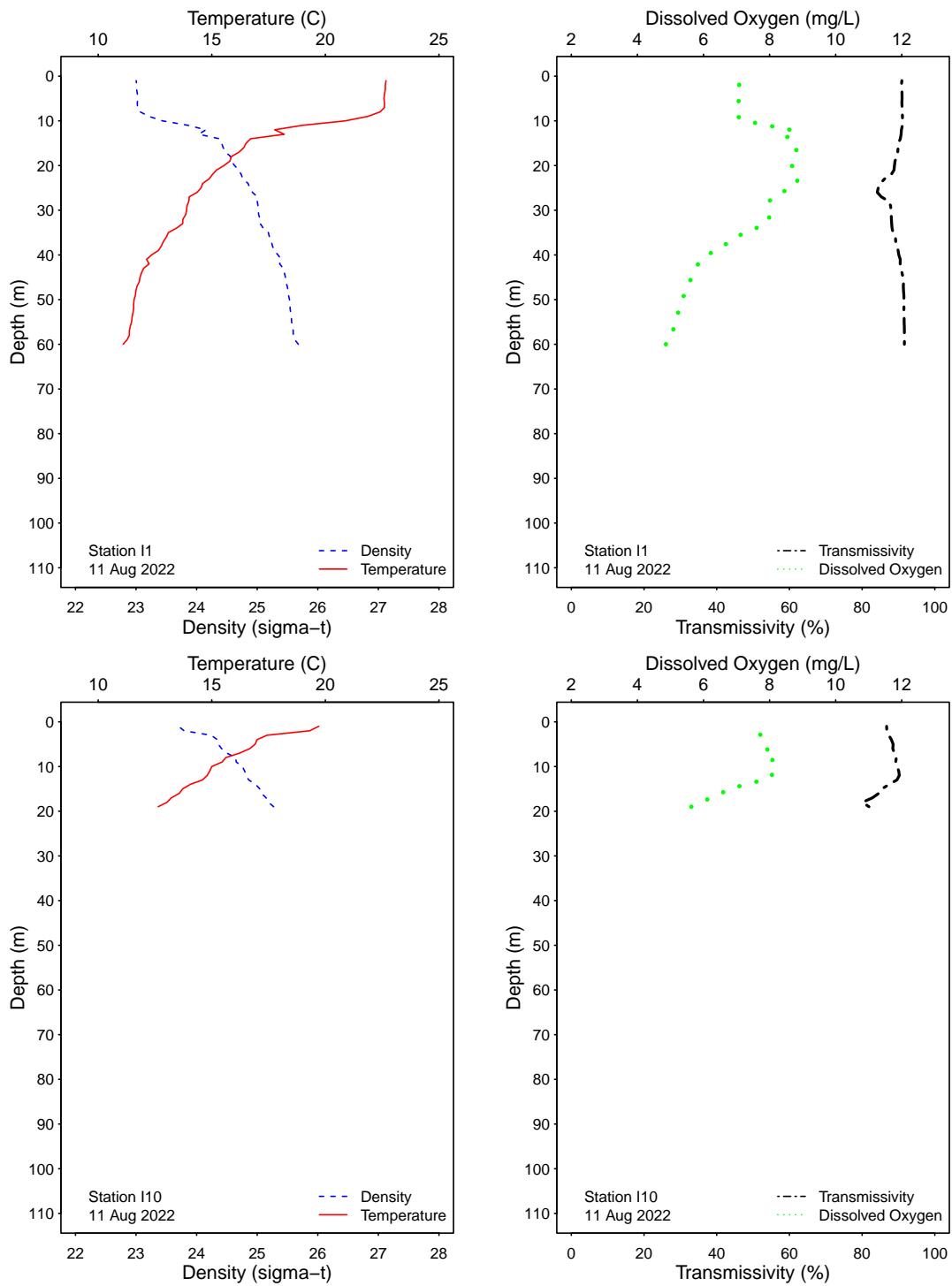


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

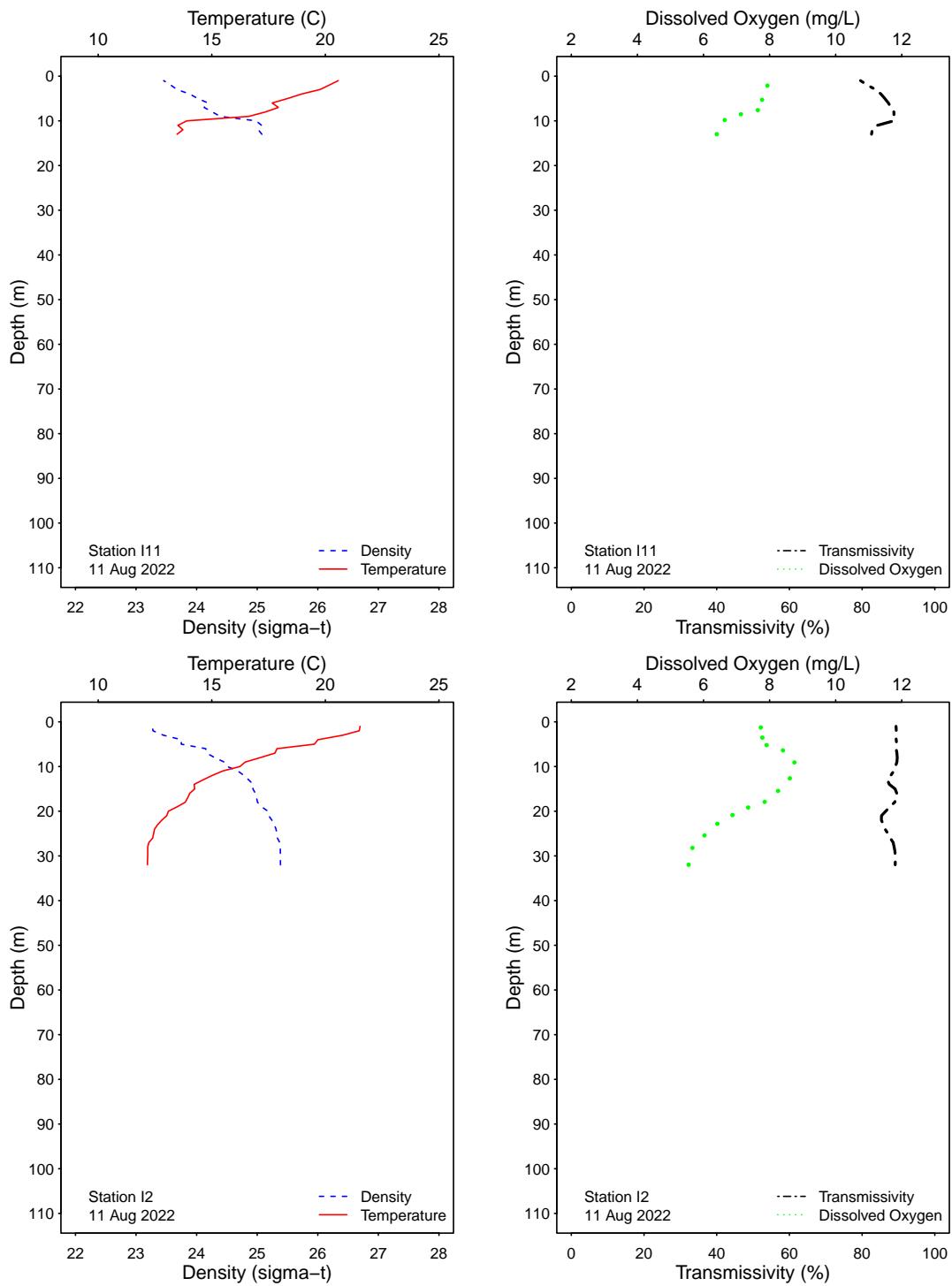


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

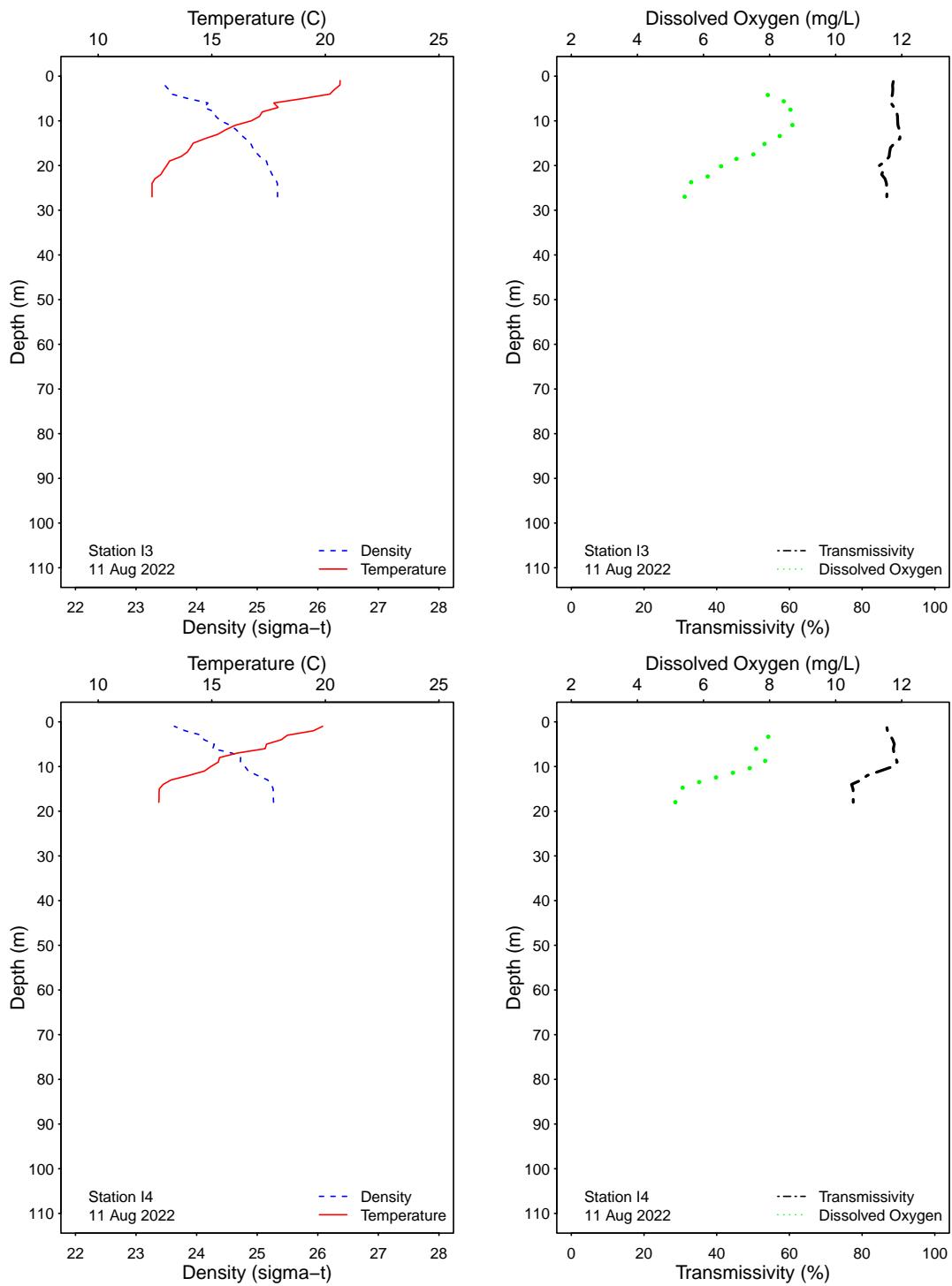


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

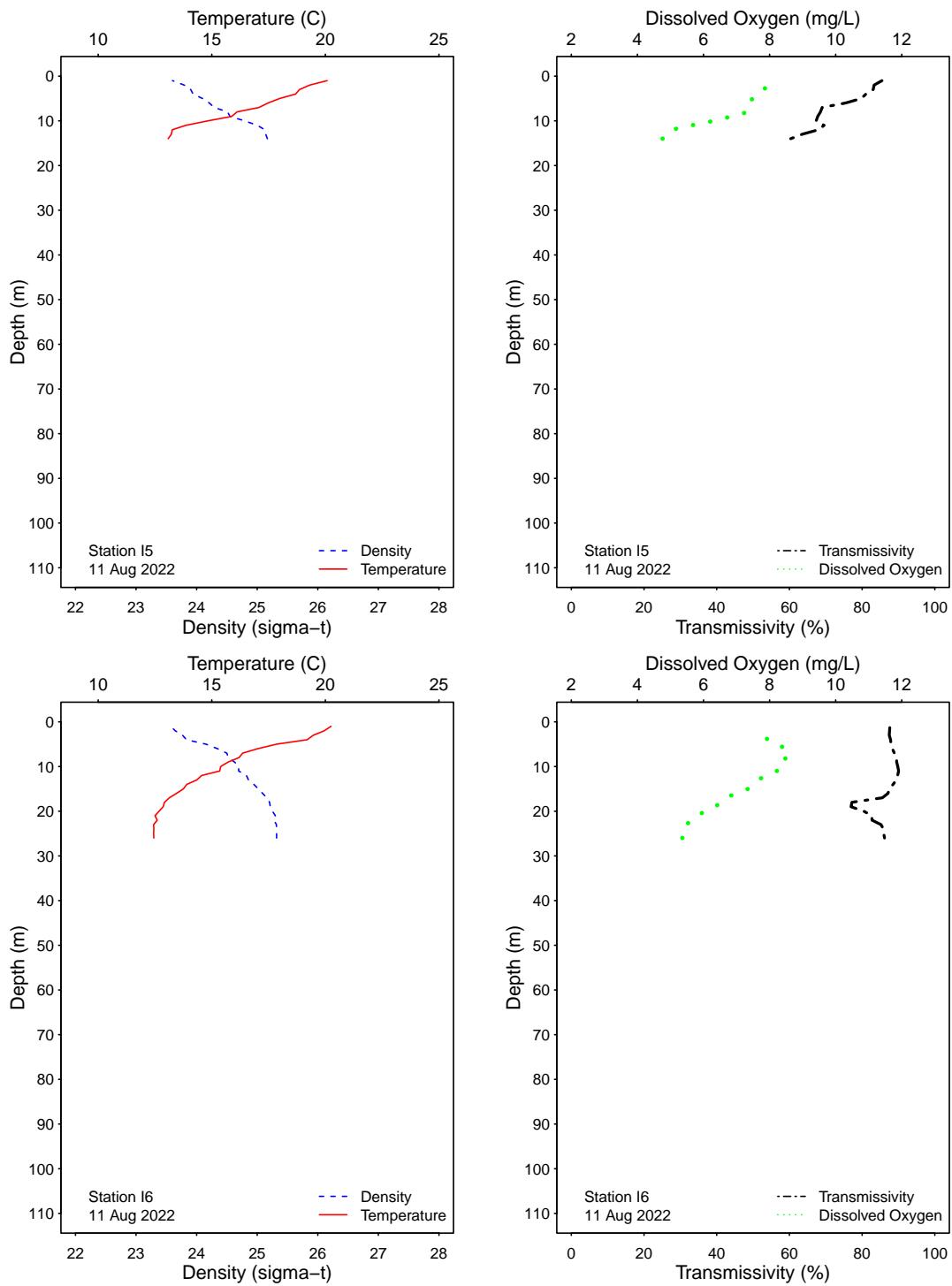


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

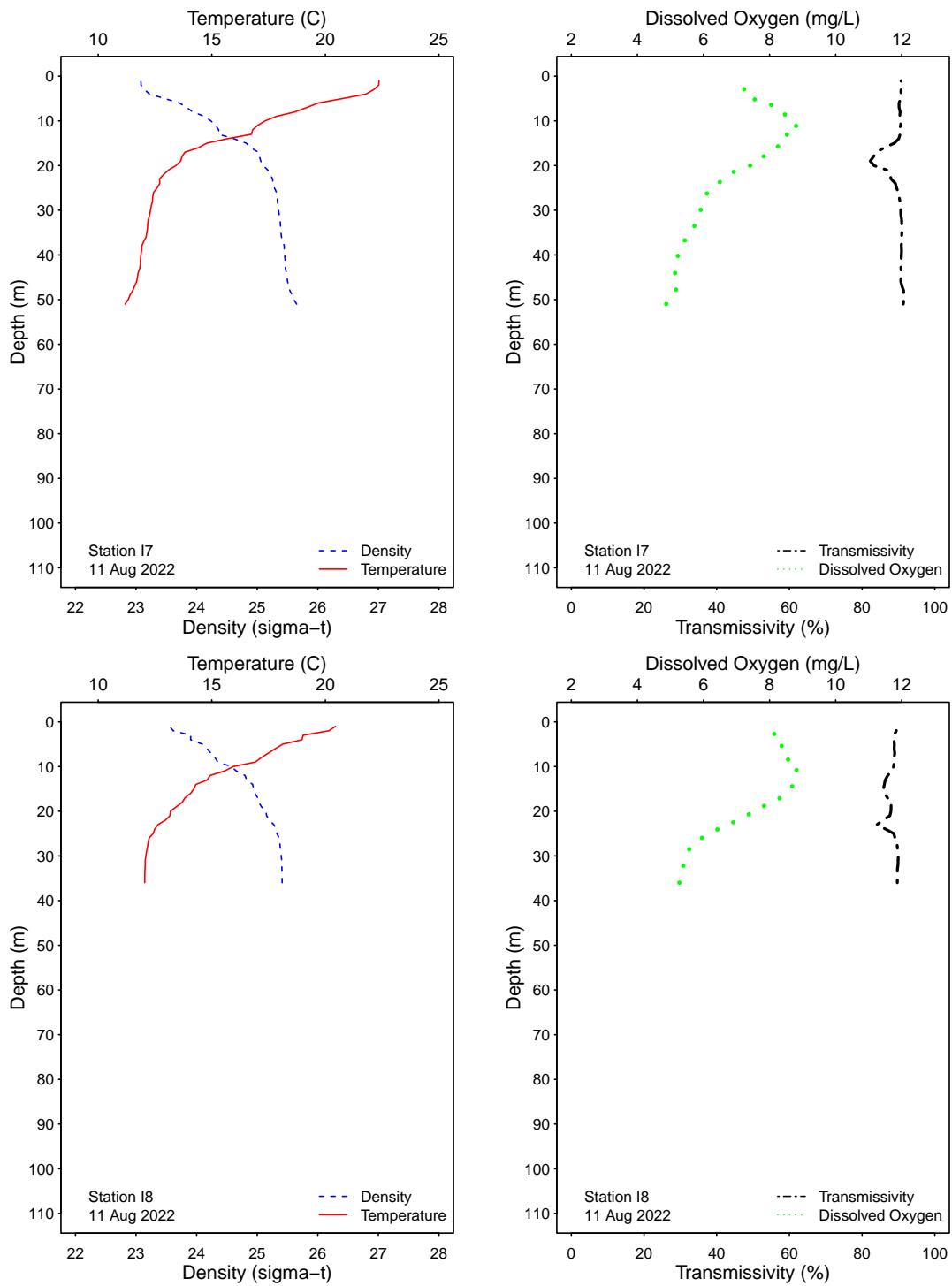


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

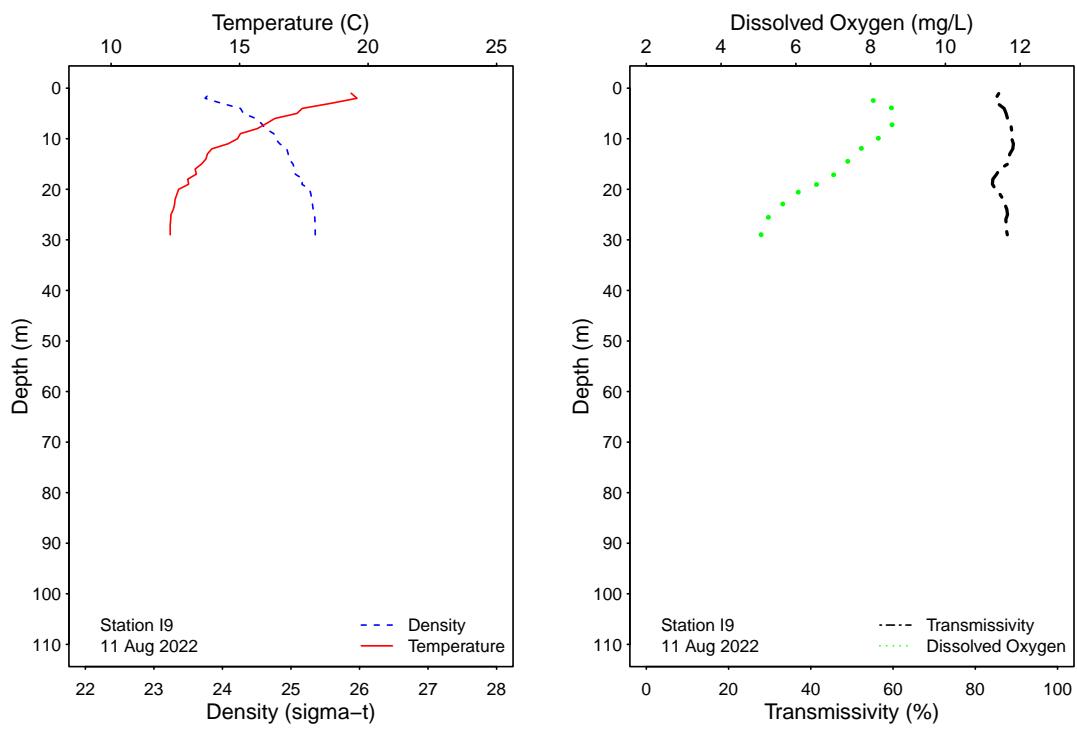


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

## 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	11 Aug 2022	18	HF	LAB DUPLICATE	<2	<2	<2
I8	11 Aug 2022	37	HF	LAB DUPLICATE	<2	<2	<2
I9	11 Aug 2022	27	HF	LAB DUPLICATE	<2	<2	<2
I12	09 Aug 2022	18	BS	LAB DUPLICATE	2200e	1200	460
I13	09 Aug 2022	18	BS	LAB DUPLICATE	<2	<2	<2
I16	09 Aug 2022	18	BS	LAB DUPLICATE	9800	2800e	1200
I19	02 Aug 2022	6	KA	LAB DUPLICATE	140	24e	36e
I19	08 Aug 2022	6	BS	LAB DUPLICATE	1400e	60e	<20
I19	15 Aug 2022	6	CRE	LAB DUPLICATE	<2	<2	<2
I19	23 Aug 2022	6	CRE	LAB DUPLICATE	20e	<2	<2
I19	30 Aug 2022	6	CRE	LAB DUPLICATE	8e	<2	<2
I30	10 Aug 2022	27	KT	LAB DUPLICATE	<2	<2	<2
I36	10 Aug 2022	11	KT	FIELD DUPLICATE	<20	<2	2e
I36	10 Aug 2022	11	KT	LAB DUPLICATE	40e	<2	<2
I40	02 Aug 2022	6	KA	LAB DUPLICATE	120e	12e	34e
I40	08 Aug 2022	6	BS	LAB DUPLICATE	13000	1400e	120e
I40	15 Aug 2022	6	CRE	LAB DUPLICATE	<2	<2	<2
I40	23 Aug 2022	6	CRE	LAB DUPLICATE	40e	6e	<2
I40	30 Aug 2022	6	CRE	LAB DUPLICATE	2e	<2	<2
S12	02 Aug 2022		JF	FIELD DUPLICATE	100e	4e	6e
S12	02 Aug 2022		JF	LAB DUPLICATE	22e	10e	8e
S12	09 Aug 2022		KT	FIELD DUPLICATE	7600	3400e	840
S12	09 Aug 2022		KT	LAB DUPLICATE	7800	3200e	940
S12	16 Aug 2022		CRE	FIELD DUPLICATE	80e	4e	10e
S12	16 Aug 2022		CRE	LAB DUPLICATE	40e	<2	34e
S12	23 Aug 2022		HF	FIELD DUPLICATE	40e	8e	24e
S12	23 Aug 2022		CRE	LAB DUPLICATE	60e	4e	20e
S12	30 Aug 2022		KT	FIELD DUPLICATE	<20	<2	<2
S12	30 Aug 2022		KT	LAB DUPLICATE	<20	<2	<2

ns = not sampled

ND = no data

