



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

## **SOUTH BAY WATER RECLAMATION PLANT**

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

## **NOVEMBER 2022**

Environmental Monitoring and Technical Services  
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Public Utilities Department  
Environmental Monitoring & Technical Services Division

December 31, 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 November 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 November, seven 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 single sample maximum (SSM) standard for fecal coliforms was exceeded at stations S4, S5, and S10.
  - The 6-week running geometric mean standard for *Enterococcus* was exceeded at station S5.
  - The statistical threshold value (STV) standard for *Enterococcus* was exceeded at stations S4, S5, S6, and S10.

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

- The 30-day running median standard for total coliforms was exceeded at stations S4, S5, S6, S8, S10, S11, and S12.
- The STV standard for total coliforms was exceeded at stations S4, S5, S6, S10, and S11.
- A sewage-like odor was observed at stations S6 and S12 on one or more days in November.
- 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 November 1, 7, 14, and 21.
- During November, 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 I19 and I24.
  - The STV standard for *Enterococcus* was exceeded at stations I19, I24, and 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 14.11 to 18.54°C. The difference between surface and bottom waters ranged from 0.17 to 3.21°C.
- Concentrations of chlorophyll *a* ranged from 1.01 to 9.04 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., November 28, 29, and 30).
- During November, one of the offshore stations located within State jurisdictional waters (i.e., I12, I14, I16, I18, I22, I23, I33, I36–I38) was out of compliance with the various 2019 Ocean Plan water contact standards on one or more days as follows:
  - The STV standard for *Enterococcus* was exceeded at station I16.
  - The STV standard for total coliforms was exceeded at station I16.
- Water column temperatures ranged from 12.44 to 16.60°C at the offshore sites. The difference between surface and bottom waters ranged from 0 to 4.16°C.
- Chlorophyll *a* concentrations ranged from 0.63 to 11.65 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 Nov 2022	3	13	10	2	2	5	13	9
02 Nov 2022	3	13	10	2	2	5	13	9
03 Nov 2022	3	21	15	2	2	5	16	9
04 Nov 2022	3	21	15	2	2	5	16	9
05 Nov 2022	3	21	15	2	2	5	16	9
06 Nov 2022	3	21	15	2	2	5	16	9
07 Nov 2022	3	21	15	2	2	5	16	9
08 Nov 2022	7	13	11	2	3	9	11	9
09 Nov 2022	7	13	11	2	3	9	11	9
10 Nov 2022	8	21	18	2	4	11	16	13
11 Nov 2022	8	21	18	2	4	11	16	13
12 Nov 2022	8	21	18	2	4	11	16	13
13 Nov 2022	8	21	18	2	4	11	16	13
14 Nov 2022	8	21	18	2	4	11	16	13
15 Nov 2022	21	55	26	2	3	39	21	9
16 Nov 2022	21	55	26	2	3	39	21	9
17 Nov 2022	39	77	48	2	4	81	31	8
18 Nov 2022	39	77	48	2	4	81	31	8
19 Nov 2022	39	77	48	2	4	81	31	8
20 Nov 2022	39	77	48	2	4	81	31	8
21 Nov 2022	39	77	48	2	4	81	31	8
22 Nov 2022	32	89	41	2	5	51	33	9
23 Nov 2022	32	89	41	2	5	51	33	9
24 Nov 2022	53	36	12	2	7	54	10	5
25 Nov 2022	53	36	12	2	7	54	10	5
26 Nov 2022	53	36	12	2	7	54	10	5
27 Nov 2022	53	36	12	2	7	54	10	5
28 Nov 2022	53	36	12	2	7	54	10	5
29 Nov 2022	47	32	11	2	6	49	11	6
30 Nov 2022	47	32	11	2	6	49	11	6

\* 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
01 Nov 2022	IC	IC	IC	IC	IC	IC	IC	IC
08 Nov 2022	IC	IC	IC	IC	IC	IC	IC	IC
15 Nov 2022	E	E	IC	IC	IC	E	IC	IC
22 Nov 2022	IC	IC	IC	IC	IC	IC	IC	IC
29 Nov 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 Nov 2022	3	7	5	2	3	2	5	4
02 Nov 2022	3	7	5	2	3	2	5	4
03 Nov 2022	3	7	5	2	3	2	5	4
04 Nov 2022	3	7	5	2	3	2	5	4
05 Nov 2022	3	7	5	2	3	2	5	4
06 Nov 2022	3	7	5	2	3	2	5	4
07 Nov 2022	3	7	5	2	3	2	5	4
08 Nov 2022	6	8	4	3	5	4	5	5
09 Nov 2022	6	8	4	3	5	4	5	5
10 Nov 2022	6	8	4	3	5	4	5	5
11 Nov 2022	6	8	4	3	5	4	5	5
12 Nov 2022	6	8	4	3	5	4	5	5
13 Nov 2022	6	8	4	3	5	4	5	5
14 Nov 2022	6	8	4	3	5	4	5	5
15 Nov 2022	12	15	10	3	5	11	7	5
16 Nov 2022	12	15	10	3	5	11	7	5
17 Nov 2022	12	15	10	3	5	11	7	5
18 Nov 2022	12	15	10	3	5	11	7	5
19 Nov 2022	12	15	10	3	5	11	7	5
20 Nov 2022	12	15	10	3	5	11	7	5
21 Nov 2022	12	15	10	3	5	11	7	5
22 Nov 2022	15	32	16	3	4	15	12	5
23 Nov 2022	15	32	16	3	4	15	12	5
24 Nov 2022	15	32	16	3	4	15	12	5
25 Nov 2022	15	32	16	3	4	15	12	5
26 Nov 2022	15	32	16	3	4	15	12	5
27 Nov 2022	15	32	16	3	4	15	12	5
28 Nov 2022	15	32	16	3	4	15	12	5
29 Nov 2022	22	53	26	3	4	22	19	6
30 Nov 2022	22	53	26	3	4	22	19	6

\* 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
November	E	E	E	IC	IC	E	IC	IC

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.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Nov 2022	20	20	20	20	20	20	20	<b>80</b>
02 Nov 2022	20	20	20	20	20	20	20	<b>80</b>
03 Nov 2022	20	40	20	<b>110</b>	20	20	20	<b>110</b>
04 Nov 2022	20	40	20	<b>110</b>	20	20	20	<b>110</b>
05 Nov 2022	20	40	20	<b>110</b>	20	20	20	<b>110</b>
06 Nov 2022	20	40	20	<b>110</b>	20	20	20	<b>110</b>
07 Nov 2022	20	40	20	<b>110</b>	20	20	20	<b>110</b>
08 Nov 2022	20	20	20	20	20	20	20	<b>200</b>
09 Nov 2022	20	20	20	20	20	20	20	<b>200</b>
10 Nov 2022	<b>110</b>	40	14	20	20	<b>110</b>	20	<b>110</b>
11 Nov 2022	<b>110</b>	40	14	20	20	<b>110</b>	20	<b>110</b>
12 Nov 2022	<b>110</b>	40	14	20	20	<b>110</b>	20	<b>110</b>
13 Nov 2022	<b>110</b>	40	14	20	20	<b>110</b>	20	<b>110</b>
14 Nov 2022	<b>110</b>	40	14	20	20	<b>110</b>	20	<b>110</b>
15 Nov 2022	<b>200</b>	60	20	20	20	<b>200</b>	20	20
16 Nov 2022	<b>200</b>	60	20	20	20	<b>200</b>	20	20
17 Nov 2022	<b>1300</b>	<b>3410</b>	<b>174</b>	11	20	<b>300</b>	70	<b>110</b>
18 Nov 2022	<b>1300</b>	<b>3410</b>	<b>174</b>	11	20	<b>300</b>	70	<b>110</b>
19 Nov 2022	<b>1300</b>	<b>3410</b>	<b>174</b>	11	20	<b>300</b>	70	<b>110</b>
20 Nov 2022	<b>1300</b>	<b>3410</b>	<b>174</b>	11	20	<b>300</b>	70	<b>110</b>
21 Nov 2022	<b>1300</b>	<b>3410</b>	<b>174</b>	11	20	<b>300</b>	70	<b>110</b>
22 Nov 2022	<b>200</b>	<b>1800</b>	<b>120</b>	20	20	<b>200</b>	<b>120</b>	20
23 Nov 2022	<b>200</b>	<b>1800</b>	<b>120</b>	20	20	<b>200</b>	<b>120</b>	20
24 Nov 2022	<b>1219</b>	<b>910</b>	64	11	14	<b>110</b>	70	20
25 Nov 2022	<b>1219</b>	<b>910</b>	64	11	14	<b>110</b>	70	20
26 Nov 2022	<b>1219</b>	<b>910</b>	64	11	14	<b>110</b>	70	20
27 Nov 2022	<b>1219</b>	<b>910</b>	64	11	14	<b>110</b>	70	20
28 Nov 2022	<b>1219</b>	<b>910</b>	64	11	14	<b>110</b>	70	20
29 Nov 2022	<b>200</b>	<b>140</b>	<b>80</b>	2	20	<b>100</b>	<b>120</b>	20
30 Nov 2022	<b>200</b>	<b>140</b>	<b>80</b>	2	20	<b>100</b>	<b>120</b>	20

\* 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
November	E	E	E	IC	IC	E	E	IC

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	01 Nov 2022	1010	>16000	11000	5400
	08 Nov 2022	1015	720	74	120e
	15 Nov 2022	1055	>16000	1200e	1600e
	22 Nov 2022	1010	320e	54	74
	29 Nov 2022	1020	>16000	1600e	640
S2	01 Nov 2022	1115	>16000	>12000	5600
	08 Nov 2022	920	>16000	1600e	1800e
	15 Nov 2022	1155	740	60e	<20
	22 Nov 2022	1120	<2	<2	44
	29 Nov 2022	1125	1800e	300e	100
S3	01 Nov 2022	1045	<20	<2	<2
	08 Nov 2022	938	2800e	440	640
	15 Nov 2022	1130	1600	140e	76
	22 Nov 2022	1050	130	44	54
	29 Nov 2022	1100	200e	64	66
S4	01 Nov 2022	1204	<20	<2	<2
	08 Nov 2022	1035	2400e	260e	320e
	15 Nov 2022	1233	4800	1100	90
	22 Nov 2022	1151	38e	14e	14e
	29 Nov 2022	1009	200e	30e	24e
S5	01 Nov 2022	1047	<20	<2	<2
	08 Nov 2022	924	<20	2e	14e
	15 Nov 2022	1036	6800	2600e	400
	22 Nov 2022	1034	1800e	160e	320e
	29 Nov 2022	922	140e	20e	44
S6	01 Nov 2022	1110	<2	<2	<2
	08 Nov 2022	941	8e	4e	<2
	15 Nov 2022	1051	340e	110	520
	22 Nov 2022	1056	120e	20e	40
	29 Nov 2022	937	80e	10e	36e
S8	01 Nov 2022	952	2e	2e	<2
	08 Nov 2022	842	20e	<2	12e
	15 Nov 2022	946	<2	<2	<2
	22 Nov 2022	940	<20	<2	<2
	29 Nov 2022	844	<2	<2	<2
S9	01 Nov 2022	931	<20	<2	2e
	08 Nov 2022	818	20e	24e	52
	15 Nov 2022	928	4e	<2	<2
	22 Nov 2022	924	8e	<20	4e
	29 Nov 2022	824	<20	6e	<2
S10	01 Nov 2022	1157	<20	<2	<2
	08 Nov 2022	1055	<200	88	100
	15 Nov 2022	1212	>16000	6200	600
	22 Nov 2022	1143	20e	8e	20e
	29 Nov 2022	1017	100e	34e	24e

<b>Station</b>	<b>Date</b>	<b>Time</b>	<b>Total</b>	<b>Fecal</b>	<b>Enter</b>
S11	01 Nov 2022	1059	<20	2e	2e
S11	08 Nov 2022	933	<20	<2	<2
S11	15 Nov 2022	1044	120e	56	80e
S11	22 Nov 2022	1049	480	40e	92
S11	29 Nov 2022	931	140e	20e	28e
S12	01 Nov 2022	1008	2e	<2	<2
S12	08 Nov 2022	858	<200	8e	16e
S12	15 Nov 2022	1011	<20	2e	<2
S12	22 Nov 2022	956	20e	14e	12e
S12	29 Nov 2022	903	<20	<20	8e

ns = not sampled

ND = no data

**Table 2.8**

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

Station	Date	Parameter	Value
S0	01 Nov 2022	Arrive Time	1010
S0	01 Nov 2022	Weather	Cloudy
S0	01 Nov 2022	Wind Speed (kts)	6.1
S0	01 Nov 2022	Wind Dir	NE
S0	01 Nov 2022	Animal Life	10 Birds
S0	01 Nov 2022	Floatables	None
S0	01 Nov 2022	Water Color	Green
S0	01 Nov 2022	Current Direction	N
S0	01 Nov 2022	Water Temp (C)	17
S0	01 Nov 2022	Wave Height Low (ft)	3
S0	01 Nov 2022	High Tide (ft)	3.89
S0	01 Nov 2022	High Tide Time	542
S0	01 Nov 2022	Low Tide (ft)	3.1
S0	01 Nov 2022	Low Tide Time	1010
S0	01 Nov 2022	Comments	0.5L/sec water flowing from storm drain; Algae; Kelp; People-10
S0	08 Nov 2022	Arrive Time	1015
S0	08 Nov 2022	Weather	Cloudy
S0	08 Nov 2022	Wind Speed (kts)	5.1
S0	08 Nov 2022	Wind Dir	S
S0	08 Nov 2022	Animal Life	10 Birds
S0	08 Nov 2022	Floatables	None
S0	08 Nov 2022	Water Color	Green
S0	08 Nov 2022	Current Direction	N
S0	08 Nov 2022	Water Temp (C)	15
S0	08 Nov 2022	Wave Height Low (ft)	4
S0	08 Nov 2022	High Tide (ft)	6.2
S0	08 Nov 2022	High Tide Time	809
S0	08 Nov 2022	Low Tide (ft)	1.3
S0	08 Nov 2022	Low Tide Time	202
S0	08 Nov 2022	Comments	1.0L/sec water flowing from storm drain; Alage; Kelp
S0	15 Nov 2022	Arrive Time	1055
S0	15 Nov 2022	Weather	Sunny
S0	15 Nov 2022	Wind Speed (kts)	1.6
S0	15 Nov 2022	Wind Dir	NE
S0	15 Nov 2022	Animal Life	Dog-3; Dolphin-2
S0	15 Nov 2022	Floatables	None
S0	15 Nov 2022	Water Color	Green
S0	15 Nov 2022	Current Direction	N
S0	15 Nov 2022	Water Temp (C)	17
S0	15 Nov 2022	Wave Height Low (ft)	3
S0	15 Nov 2022	High Tide (ft)	3.56
S0	15 Nov 2022	High Tide Time	504
S0	15 Nov 2022	Low Tide (ft)	3.47
S0	15 Nov 2022	Low Tide Time	743
S0	15 Nov 2022	Comments	Algae; Kelp; Flow from storm drain is 1.0 L/sec
S0	22 Nov 2022	Arrive Time	1010
S0	22 Nov 2022	Weather	Sunny
S0	22 Nov 2022	Wind Speed (kts)	1.1
S0	22 Nov 2022	Wind Dir	NE
S0	22 Nov 2022	Animal Life	Birds-10; Dogs-4
S0	22 Nov 2022	Floatables	None
S0	22 Nov 2022	Water Color	Green

Station	Date	Parameter	Value
S0	22 Nov 2022	Current Direction	N
S0	22 Nov 2022	Water Temp (C)	16
S0	22 Nov 2022	Wave Height Low (ft)	4
S0	22 Nov 2022	High Tide (ft)	6.25
S0	22 Nov 2022	High Tide Time	708
S0	22 Nov 2022	Low Tide (ft)	1.17
S0	22 Nov 2022	Low Tide Time	55
S0	22 Nov 2022	Comments	0.5L/sec water flowing from storm drain; Alage; Kelp; people-5
S0	29 Nov 2022	Arrive Time	1020
S0	29 Nov 2022	Weather	Cloudy
S0	29 Nov 2022	Wind Speed (kts)	2.6
S0	29 Nov 2022	Wind Dir	NE
S0	29 Nov 2022	Animal Life	
S0	29 Nov 2022	Floatables	None
S0	29 Nov 2022	Water Color	Green
S0	29 Nov 2022	Current Direction	N
S0	29 Nov 2022	Water Temp (C)	14
S0	29 Nov 2022	Wave Height Low (ft)	4
S0	29 Nov 2022	High Tide (ft)	3.75
S0	29 Nov 2022	High Tide Time	236
S0	29 Nov 2022	Low Tide (ft)	2.94
S0	29 Nov 2022	Low Tide Time	706
S0	29 Nov 2022	Comments	0.5L/sec water flowing from storm drain; Kelp; People-3
S2	01 Nov 2022	Arrive Time	1115
S2	01 Nov 2022	Weather	Cloudy
S2	01 Nov 2022	Wind Speed (kts)	6.3
S2	01 Nov 2022	Wind Dir	NE
S2	01 Nov 2022	Animal Life	10 Birds; 3 Dogs
S2	01 Nov 2022	Floatables	None
S2	01 Nov 2022	Water Color	Green
S2	01 Nov 2022	Current Direction	N
S2	01 Nov 2022	Water Temp (C)	17
S2	01 Nov 2022	Wave Height Low (ft)	3
S2	01 Nov 2022	High Tide (ft)	3.89
S2	01 Nov 2022	High Tide Time	542
S2	01 Nov 2022	Low Tide (ft)	3.1
S2	01 Nov 2022	Low Tide Time	1010
S2	01 Nov 2022	Comments	No water flowing from storm drain; Algae; Kelp; People-10
S2	08 Nov 2022	Arrive Time	920
S2	08 Nov 2022	Weather	Cloudy
S2	08 Nov 2022	Wind Speed (kts)	5.7
S2	08 Nov 2022	Wind Dir	NW
S2	08 Nov 2022	Animal Life	15 Birds
S2	08 Nov 2022	Floatables	None
S2	08 Nov 2022	Water Color	Green
S2	08 Nov 2022	Current Direction	N
S2	08 Nov 2022	Water Temp (C)	15
S2	08 Nov 2022	Wave Height Low (ft)	3
S2	08 Nov 2022	High Tide (ft)	6.2
S2	08 Nov 2022	High Tide Time	809
S2	08 Nov 2022	Low Tide (ft)	1.3
S2	08 Nov 2022	Low Tide Time	202
S2	08 Nov 2022	Comments	No water flowing from storm drain; Algae; Kelp
S2	15 Nov 2022	Arrive Time	1155
S2	15 Nov 2022	Weather	Sunny
S2	15 Nov 2022	Wind Speed (kts)	1.8

Station	Date	Parameter	Value
S2	15 Nov 2022	Wind Dir	NE
S2	15 Nov 2022	Animal Life	10 Birds; 4 Dogs
S2	15 Nov 2022	Floatables	None
S2	15 Nov 2022	Water Color	Green
S2	15 Nov 2022	Current Direction	N
S2	15 Nov 2022	Water Temp (C)	17
S2	15 Nov 2022	Wave Height Low (ft)	3
S2	15 Nov 2022	High Tide (ft)	3.56
S2	15 Nov 2022	High Tide Time	504
S2	15 Nov 2022	Low Tide (ft)	3.47
S2	15 Nov 2022	Low Tide Time	743
S2	15 Nov 2022	Comments	Algae; Kelp; People-10; No water flowing from storm drain
S2	22 Nov 2022	Arrive Time	1120
S2	22 Nov 2022	Weather	Sunny
S2	22 Nov 2022	Wind Speed (kts)	1.6
S2	22 Nov 2022	Wind Dir	NE
S2	22 Nov 2022	Animal Life	Birds-10; Dogs-4
S2	22 Nov 2022	Floatables	None
S2	22 Nov 2022	Water Color	Green
S2	22 Nov 2022	Current Direction	N
S2	22 Nov 2022	Water Temp (C)	16
S2	22 Nov 2022	Wave Height Low (ft)	4
S2	22 Nov 2022	High Tide (ft)	6.25
S2	22 Nov 2022	High Tide Time	708
S2	22 Nov 2022	Low Tide (ft)	1.17
S2	22 Nov 2022	Low Tide Time	55
S2	22 Nov 2022	Comments	No water flowing from storm drain; Alage; Kelp; people-5
S2	29 Nov 2022	Arrive Time	1125
S2	29 Nov 2022	Weather	Cloudy
S2	29 Nov 2022	Wind Speed (kts)	1.9
S2	29 Nov 2022	Wind Dir	NE
S2	29 Nov 2022	Animal Life	
S2	29 Nov 2022	Floatables	None
S2	29 Nov 2022	Water Color	Green
S2	29 Nov 2022	Current Direction	N
S2	29 Nov 2022	Water Temp (C)	14
S2	29 Nov 2022	Wave Height Low (ft)	4
S2	29 Nov 2022	High Tide (ft)	3.75
S2	29 Nov 2022	High Tide Time	236
S2	29 Nov 2022	Low Tide (ft)	2.94
S2	29 Nov 2022	Low Tide Time	706
S2	29 Nov 2022	Comments	No water flowing from storm drain; Alage; Kelp; People-10
S3	01 Nov 2022	Arrive Time	1045
S3	01 Nov 2022	Weather	Cloudy
S3	01 Nov 2022	Wind Speed (kts)	6
S3	01 Nov 2022	Wind Dir	NE
S3	01 Nov 2022	Animal Life	10 Birds; 2 Dogs
S3	01 Nov 2022	Floatables	None
S3	01 Nov 2022	Water Color	Green
S3	01 Nov 2022	Current Direction	N
S3	01 Nov 2022	Water Temp (C)	17
S3	01 Nov 2022	Wave Height Low (ft)	3
S3	01 Nov 2022	High Tide (ft)	3.89
S3	01 Nov 2022	High Tide Time	542
S3	01 Nov 2022	Low Tide (ft)	3.1
S3	01 Nov 2022	Low Tide Time	1010
S3	01 Nov 2022	Comments	0.5L/sec water flowing from storm drain; Algae; Kelp; People-10

Station	Date	Parameter	Value
S3	08 Nov 2022	Arrive Time	938
S3	08 Nov 2022	Weather	Cloudy
S3	08 Nov 2022	Wind Speed (kts)	7.2
S3	08 Nov 2022	Wind Dir	NW
S3	08 Nov 2022	Animal Life	15 Birds
S3	08 Nov 2022	Floatables	None
S3	08 Nov 2022	Water Color	Green
S3	08 Nov 2022	Current Direction	N
S3	08 Nov 2022	Water Temp (C)	15
S3	08 Nov 2022	Wave Height Low (ft)	4
S3	08 Nov 2022	High Tide (ft)	6.2
S3	08 Nov 2022	High Tide Time	809
S3	08 Nov 2022	Low Tide (ft)	1.3
S3	08 Nov 2022	Low Tide Time	202
S3	08 Nov 2022	Comments	0.1L/sec water flowing from storm drain; Alage; Kelp; Surfers-2
S3	15 Nov 2022	Arrive Time	1130
S3	15 Nov 2022	Weather	Sunny
S3	15 Nov 2022	Wind Speed (kts)	2.1
S3	15 Nov 2022	Wind Dir	NE
S3	15 Nov 2022	Animal Life	10 Birds; 2 Dogs
S3	15 Nov 2022	Floatables	None
S3	15 Nov 2022	Water Color	Green
S3	15 Nov 2022	Current Direction	N
S3	15 Nov 2022	Water Temp (C)	17
S3	15 Nov 2022	Wave Height Low (ft)	3
S3	15 Nov 2022	High Tide (ft)	3.56
S3	15 Nov 2022	High Tide Time	504
S3	15 Nov 2022	Low Tide (ft)	3.47
S3	15 Nov 2022	Low Tide Time	743
S3	15 Nov 2022	Comments	Algae; Kelp; People-10; 0.5L/sec water flowing from storm drain
S3	22 Nov 2022	Arrive Time	1050
S3	22 Nov 2022	Weather	Sunny
S3	22 Nov 2022	Wind Speed (kts)	1.4
S3	22 Nov 2022	Wind Dir	NE
S3	22 Nov 2022	Animal Life	Birds-10; Dogs-6
S3	22 Nov 2022	Floatables	None
S3	22 Nov 2022	Water Color	Green
S3	22 Nov 2022	Current Direction	N
S3	22 Nov 2022	Water Temp (C)	16
S3	22 Nov 2022	Wave Height Low (ft)	4
S3	22 Nov 2022	High Tide (ft)	6.25
S3	22 Nov 2022	High Tide Time	708
S3	22 Nov 2022	Low Tide (ft)	1.17
S3	22 Nov 2022	Low Tide Time	55
S3	22 Nov 2022	Comments	Alage; Kelp; people-10; 0.5L/sec water flowing from storm drain
S3	29 Nov 2022	Arrive Time	1100
S3	29 Nov 2022	Weather	Cloudy
S3	29 Nov 2022	Wind Speed (kts)	2.1
S3	29 Nov 2022	Wind Dir	NE
S3	29 Nov 2022	Animal Life	
S3	29 Nov 2022	Floatables	None
S3	29 Nov 2022	Water Color	Green
S3	29 Nov 2022	Current Direction	N
S3	29 Nov 2022	Water Temp (C)	14

Station	Date	Parameter	Value
S3	29 Nov 2022	Wave Height Low (ft)	4
S3	29 Nov 2022	High Tide (ft)	3.75
S3	29 Nov 2022	High Tide Time	236
S3	29 Nov 2022	Low Tide (ft)	2.94
S3	29 Nov 2022	Low Tide Time	706
S3	29 Nov 2022	Comments	0.5L/sec water flowing from storm drain; Kelp; People-10
S4	01 Nov 2022	Arrive Time	1204
S4	01 Nov 2022	Weather	Cloudy
S4	01 Nov 2022	Wind Speed (kts)	6.2
S4	01 Nov 2022	Wind Dir	SW
S4	01 Nov 2022	Animal Life	Seagull-1
S4	01 Nov 2022	Floatables	Foam
S4	01 Nov 2022	Water Color	Green
S4	01 Nov 2022	Current Direction	N
S4	01 Nov 2022	Water Temp (C)	19.7
S4	01 Nov 2022	Wave Height Low (ft)	3
S4	01 Nov 2022	High Tide (ft)	3.89
S4	01 Nov 2022	High Tide Time	542
S4	01 Nov 2022	Low Tide (ft)	3.1
S4	01 Nov 2022	Low Tide Time	1010
S4	01 Nov 2022	Comments	none
S4	08 Nov 2022	Arrive Time	1035
S4	08 Nov 2022	Weather	Drizzle
S4	08 Nov 2022	Wind Speed (kts)	13.4
S4	08 Nov 2022	Wind Dir	S
S4	08 Nov 2022	Animal Life	Bird-6; Seagull-29
S4	08 Nov 2022	Floatables	None
S4	08 Nov 2022	Water Color	Green
S4	08 Nov 2022	Current Direction	N
S4	08 Nov 2022	Water Temp (C)	18.7
S4	08 Nov 2022	Wave Height Low (ft)	4
S4	08 Nov 2022	High Tide (ft)	6.2
S4	08 Nov 2022	High Tide Time	809
S4	08 Nov 2022	Low Tide (ft)	1.3
S4	08 Nov 2022	Low Tide Time	202
S4	08 Nov 2022	Comments	none
S4	15 Nov 2022	Arrive Time	1233
S4	15 Nov 2022	Weather	Partly cloudy
S4	15 Nov 2022	Wind Speed (kts)	9.5
S4	15 Nov 2022	Wind Dir	NW
S4	15 Nov 2022	Animal Life	Bird-2
S4	15 Nov 2022	Floatables	Dead animals; Foam
S4	15 Nov 2022	Water Color	Green
S4	15 Nov 2022	Current Direction	S
S4	15 Nov 2022	Water Temp (C)	16.1
S4	15 Nov 2022	Wave Height Low (ft)	4
S4	15 Nov 2022	High Tide (ft)	3.56
S4	15 Nov 2022	High Tide Time	504
S4	15 Nov 2022	Low Tide (ft)	3.47
S4	15 Nov 2022	Low Tide Time	743
S4	15 Nov 2022	Comments	none
S4	22 Nov 2022	Arrive Time	1151
S4	22 Nov 2022	Weather	Sunny
S4	22 Nov 2022	Wind Speed (kts)	5.4
S4	22 Nov 2022	Wind Dir	NW
S4	22 Nov 2022	Animal Life	Bird-300
S4	22 Nov 2022	Floatables	None

Station	Date	Parameter	Value
S4	22 Nov 2022	Water Color	Green
S4	22 Nov 2022	Current Direction	N
S4	22 Nov 2022	Water Temp (C)	15.6
S4	22 Nov 2022	Wave Height Low (ft)	3
S4	22 Nov 2022	High Tide (ft)	6.25
S4	22 Nov 2022	High Tide Time	708
S4	22 Nov 2022	Low Tide (ft)	1.17
S4	22 Nov 2022	Low Tide Time	55
S4	22 Nov 2022	Comments	none
S4	29 Nov 2022	Arrive Time	1009
S4	29 Nov 2022	Weather	Cloudy
S4	29 Nov 2022	Wind Speed (kts)	7.3
S4	29 Nov 2022	Wind Dir	E
S4	29 Nov 2022	Animal Life	Bird-42
S4	29 Nov 2022	Floatables	Dead animals
S4	29 Nov 2022	Water Color	Green
S4	29 Nov 2022	Current Direction	N
S4	29 Nov 2022	Water Temp (C)	16
S4	29 Nov 2022	Wave Height Low (ft)	4
S4	29 Nov 2022	High Tide (ft)	3.75
S4	29 Nov 2022	High Tide Time	236
S4	29 Nov 2022	Low Tide (ft)	2.94
S4	29 Nov 2022	Low Tide Time	706
S4	29 Nov 2022	Comments	none
S5	01 Nov 2022	Arrive Time	1047
S5	01 Nov 2022	Weather	Cloudy
S5	01 Nov 2022	Wind Speed (kts)	7.9
S5	01 Nov 2022	Wind Dir	SW
S5	01 Nov 2022	Animal Life	
S5	01 Nov 2022	Floatables	None
S5	01 Nov 2022	Water Color	Green
S5	01 Nov 2022	Current Direction	N
S5	01 Nov 2022	Water Temp (C)	19.7
S5	01 Nov 2022	Wave Height Low (ft)	2
S5	01 Nov 2022	High Tide (ft)	3.89
S5	01 Nov 2022	High Tide Time	542
S5	01 Nov 2022	Low Tide (ft)	3.1
S5	01 Nov 2022	Low Tide Time	1010
S5	01 Nov 2022	Comments	Water turbid; Trash-1; Kelp; Seagrass; Debris; Person/Walker/Jogger-2
S5	08 Nov 2022	Arrive Time	924
S5	08 Nov 2022	Weather	Cloudy
S5	08 Nov 2022	Wind Speed (kts)	14.5
S5	08 Nov 2022	Wind Dir	S
S5	08 Nov 2022	Animal Life	
S5	08 Nov 2022	Floatables	Foam
S5	08 Nov 2022	Water Color	Green
S5	08 Nov 2022	Current Direction	N
S5	08 Nov 2022	Water Temp (C)	19.7
S5	08 Nov 2022	Wave Height Low (ft)	3
S5	08 Nov 2022	High Tide (ft)	6.2
S5	08 Nov 2022	High Tide Time	809
S5	08 Nov 2022	Low Tide (ft)	1.3
S5	08 Nov 2022	Low Tide Time	202
S5	08 Nov 2022	Comments	none
S5	15 Nov 2022	Arrive Time	1036
S5	15 Nov 2022	Weather	Sunny

Station	Date	Parameter	Value
S5	15 Nov 2022	Wind Speed (kts)	8.3
S5	15 Nov 2022	Wind Dir	NW
S5	15 Nov 2022	Animal Life	Pelican-1
S5	15 Nov 2022	Floatables	None
S5	15 Nov 2022	Water Color	Green
S5	15 Nov 2022	Current Direction	S
S5	15 Nov 2022	Water Temp (C)	16.5
S5	15 Nov 2022	Wave Height Low (ft)	3
S5	15 Nov 2022	High Tide (ft)	3.56
S5	15 Nov 2022	High Tide Time	504
S5	15 Nov 2022	Low Tide (ft)	3.47
S5	15 Nov 2022	Low Tide Time	743
S5	15 Nov 2022	Comments	none
S5	22 Nov 2022	Arrive Time	1034
S5	22 Nov 2022	Weather	Sunny
S5	22 Nov 2022	Wind Speed (kts)	3.8
S5	22 Nov 2022	Wind Dir	N
S5	22 Nov 2022	Animal Life	Dolphin-3
S5	22 Nov 2022	Floatables	Foam; Dead animals
S5	22 Nov 2022	Water Color	Brown
S5	22 Nov 2022	Current Direction	N
S5	22 Nov 2022	Water Temp (C)	16
S5	22 Nov 2022	Wave Height Low (ft)	2
S5	22 Nov 2022	High Tide (ft)	6.25
S5	22 Nov 2022	High Tide Time	708
S5	22 Nov 2022	Low Tide (ft)	1.17
S5	22 Nov 2022	Low Tide Time	55
S5	22 Nov 2022	Comments	none
S5	29 Nov 2022	Arrive Time	922
S5	29 Nov 2022	Weather	Drizzle
S5	29 Nov 2022	Wind Speed (kts)	6.8
S5	29 Nov 2022	Wind Dir	SE
S5	29 Nov 2022	Animal Life	Bird-20; Seagull-1
S5	29 Nov 2022	Floatables	None
S5	29 Nov 2022	Water Color	Green
S5	29 Nov 2022	Current Direction	N
S5	29 Nov 2022	Water Temp (C)	16
S5	29 Nov 2022	Wave Height Low (ft)	5
S5	29 Nov 2022	High Tide (ft)	3.75
S5	29 Nov 2022	High Tide Time	236
S5	29 Nov 2022	Low Tide (ft)	2.94
S5	29 Nov 2022	Low Tide Time	706
S5	29 Nov 2022	Comments	Water clear; Trash-4; Kelp; Seagrass; Debris; Person/Walker/Jogger-2
S6	01 Nov 2022	Arrive Time	1110
S6	01 Nov 2022	Weather	Cloudy
S6	01 Nov 2022	Wind Speed (kts)	6.4
S6	01 Nov 2022	Wind Dir	SW
S6	01 Nov 2022	Animal Life	Dog-2
S6	01 Nov 2022	Floatables	Foam
S6	01 Nov 2022	Water Color	Green
S6	01 Nov 2022	Current Direction	N
S6	01 Nov 2022	Water Temp (C)	19.4
S6	01 Nov 2022	Wave Height Low (ft)	4
S6	01 Nov 2022	High Tide (ft)	3.89
S6	01 Nov 2022	High Tide Time	542
S6	01 Nov 2022	Low Tide (ft)	3.1
S6	01 Nov 2022	Low Tide Time	1010

Station	Date	Parameter	Value
S6	01 Nov 2022	Comments	Water clear; Trash-2; Kelp; Seagrass; Person/Walker/Jogger-5
S6	08 Nov 2022	Arrive Time	941
S6	08 Nov 2022	Weather	Cloudy
S6	08 Nov 2022	Wind Speed (kts)	16.7
S6	08 Nov 2022	Wind Dir	S
S6	08 Nov 2022	Animal Life	
S6	08 Nov 2022	Floatables	None
S6	08 Nov 2022	Water Color	Green
S6	08 Nov 2022	Current Direction	N
S6	08 Nov 2022	Water Temp (C)	19.9
S6	08 Nov 2022	Wave Height Low (ft)	6
S6	08 Nov 2022	High Tide (ft)	6.2
S6	08 Nov 2022	High Tide Time	809
S6	08 Nov 2022	Low Tide (ft)	1.3
S6	08 Nov 2022	Low Tide Time	202
S6	08 Nov 2022	Comments	Water clear; Trash-1; Kelp; Person/Walker/Jogger-1; Sewage-like odor
S6	15 Nov 2022	Arrive Time	1051
S6	15 Nov 2022	Weather	Sunny
S6	15 Nov 2022	Wind Speed (kts)	7.3
S6	15 Nov 2022	Wind Dir	NW
S6	15 Nov 2022	Animal Life	Bird-2
S6	15 Nov 2022	Floatables	Foam
S6	15 Nov 2022	Water Color	Green
S6	15 Nov 2022	Current Direction	S
S6	15 Nov 2022	Water Temp (C)	14.1
S6	15 Nov 2022	Wave Height Low (ft)	4
S6	15 Nov 2022	High Tide (ft)	3.56
S6	15 Nov 2022	High Tide Time	504
S6	15 Nov 2022	Low Tide (ft)	3.47
S6	15 Nov 2022	Low Tide Time	743
S6	15 Nov 2022	Comments	none
S6	22 Nov 2022	Arrive Time	1056
S6	22 Nov 2022	Weather	Sunny
S6	22 Nov 2022	Wind Speed (kts)	3.6
S6	22 Nov 2022	Wind Dir	NW
S6	22 Nov 2022	Animal Life	Bird-13; Dog-1
S6	22 Nov 2022	Floatables	None
S6	22 Nov 2022	Water Color	Green
S6	22 Nov 2022	Current Direction	N
S6	22 Nov 2022	Water Temp (C)	16.9
S6	22 Nov 2022	Wave Height Low (ft)	4
S6	22 Nov 2022	High Tide (ft)	6.25
S6	22 Nov 2022	High Tide Time	708
S6	22 Nov 2022	Low Tide (ft)	1.17
S6	22 Nov 2022	Low Tide Time	55
S6	22 Nov 2022	Comments	Water turbid; Surfer/Paddle boarder-16; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-6
S6	29 Nov 2022	Arrive Time	937
S6	29 Nov 2022	Weather	Drizzle
S6	29 Nov 2022	Wind Speed (kts)	5.4
S6	29 Nov 2022	Wind Dir	SE
S6	29 Nov 2022	Animal Life	
S6	29 Nov 2022	Floatables	Foam
S6	29 Nov 2022	Water Color	Green
S6	29 Nov 2022	Current Direction	N

Station	Date	Parameter	Value
S6	29 Nov 2022	Water Temp (C)	16
S6	29 Nov 2022	Wave Height Low (ft)	5
S6	29 Nov 2022	High Tide (ft)	3.75
S6	29 Nov 2022	High Tide Time	236
S6	29 Nov 2022	Low Tide (ft)	2.94
S6	29 Nov 2022	Low Tide Time	706
S6	29 Nov 2022	Comments	Water clear; Trash-3; Kelp; Seagrass; Debris; Person/Walker/Jogger-1
S8	01 Nov 2022	Arrive Time	952
S8	01 Nov 2022	Weather	Cloudy
S8	01 Nov 2022	Wind Speed (kts)	5.8
S8	01 Nov 2022	Wind Dir	S
S8	01 Nov 2022	Animal Life	
S8	01 Nov 2022	Floatables	None
S8	01 Nov 2022	Water Color	Green
S8	01 Nov 2022	Current Direction	N
S8	01 Nov 2022	Water Temp (C)	18.7
S8	01 Nov 2022	Wave Height Low (ft)	1
S8	01 Nov 2022	High Tide (ft)	3.89
S8	01 Nov 2022	High Tide Time	542
S8	01 Nov 2022	Low Tide (ft)	3.1
S8	01 Nov 2022	Low Tide Time	1010
S8	01 Nov 2022	Comments	none
S8	08 Nov 2022	Arrive Time	842
S8	08 Nov 2022	Weather	Cloudy
S8	08 Nov 2022	Wind Speed (kts)	15.3
S8	08 Nov 2022	Wind Dir	S
S8	08 Nov 2022	Animal Life	
S8	08 Nov 2022	Floatables	Foam
S8	08 Nov 2022	Water Color	Green
S8	08 Nov 2022	Current Direction	N
S8	08 Nov 2022	Water Temp (C)	17.9
S8	08 Nov 2022	Wave Height Low (ft)	2
S8	08 Nov 2022	High Tide (ft)	6.2
S8	08 Nov 2022	High Tide Time	809
S8	08 Nov 2022	Low Tide (ft)	1.3
S8	08 Nov 2022	Low Tide Time	202
S8	08 Nov 2022	Comments	none
S8	15 Nov 2022	Arrive Time	946
S8	15 Nov 2022	Weather	Sunny
S8	15 Nov 2022	Wind Speed (kts)	3.6
S8	15 Nov 2022	Wind Dir	NW
S8	15 Nov 2022	Animal Life	
S8	15 Nov 2022	Floatables	None
S8	15 Nov 2022	Water Color	Green
S8	15 Nov 2022	Current Direction	S
S8	15 Nov 2022	Water Temp (C)	17.5
S8	15 Nov 2022	Wave Height Low (ft)	2
S8	15 Nov 2022	High Tide (ft)	3.56
S8	15 Nov 2022	High Tide Time	504
S8	15 Nov 2022	Low Tide (ft)	3.47
S8	15 Nov 2022	Low Tide Time	743
S8	15 Nov 2022	Comments	none
S8	22 Nov 2022	Arrive Time	940
S8	22 Nov 2022	Weather	Sunny
S8	22 Nov 2022	Wind Speed (kts)	0
S8	22 Nov 2022	Wind Dir	

Station	Date	Parameter	Value
S8	22 Nov 2022	Animal Life	Seagull-3
S8	22 Nov 2022	Floatables	None
S8	22 Nov 2022	Water Color	Green
S8	22 Nov 2022	Current Direction	N
S8	22 Nov 2022	Water Temp (C)	18
S8	22 Nov 2022	Wave Height Low (ft)	2
S8	22 Nov 2022	High Tide (ft)	6.25
S8	22 Nov 2022	High Tide Time	708
S8	22 Nov 2022	Low Tide (ft)	1.17
S8	22 Nov 2022	Low Tide Time	55
S8	22 Nov 2022	Comments	Water turbid; Surfer/Paddle boarder-2; Trash-1; Person/Walker/Jogger-13
S8	29 Nov 2022	Arrive Time	844
S8	29 Nov 2022	Weather	Cloudy
S8	29 Nov 2022	Wind Speed (kts)	8.9
S8	29 Nov 2022	Wind Dir	SE
S8	29 Nov 2022	Animal Life	Pelican-3; Seagull-1
S8	29 Nov 2022	Floatables	None
S8	29 Nov 2022	Water Color	Green
S8	29 Nov 2022	Current Direction	N
S8	29 Nov 2022	Water Temp (C)	16
S8	29 Nov 2022	Wave Height Low (ft)	4
S8	29 Nov 2022	High Tide (ft)	3.75
S8	29 Nov 2022	High Tide Time	236
S8	29 Nov 2022	Low Tide (ft)	2.94
S8	29 Nov 2022	Low Tide Time	706
S8	29 Nov 2022	Comments	Water clear; Trash-2; Kelp; Seagrass; Person/Walker/Jogger-9
S9	01 Nov 2022	Arrive Time	931
S9	01 Nov 2022	Weather	Overcast
S9	01 Nov 2022	Wind Speed (kts)	3.6
S9	01 Nov 2022	Wind Dir	S
S9	01 Nov 2022	Animal Life	Seagull-3
S9	01 Nov 2022	Floatables	Foam
S9	01 Nov 2022	Water Color	Green
S9	01 Nov 2022	Current Direction	N
S9	01 Nov 2022	Water Temp (C)	19.5
S9	01 Nov 2022	Wave Height Low (ft)	1
S9	01 Nov 2022	High Tide (ft)	3.89
S9	01 Nov 2022	High Tide Time	542
S9	01 Nov 2022	Low Tide (ft)	3.1
S9	01 Nov 2022	Low Tide Time	1010
S9	01 Nov 2022	Comments	Water turbid; Boogie boarder/Swimmer-1; Surfer/Paddle boarder-1; Trash-1; Person/Walker/Jogger-4
S9	08 Nov 2022	Arrive Time	818
S9	08 Nov 2022	Weather	Cloudy
S9	08 Nov 2022	Wind Speed (kts)	11.6
S9	08 Nov 2022	Wind Dir	S
S9	08 Nov 2022	Animal Life	
S9	08 Nov 2022	Floatables	Foam; Film
S9	08 Nov 2022	Water Color	Green
S9	08 Nov 2022	Current Direction	N
S9	08 Nov 2022	Water Temp (C)	17.8
S9	08 Nov 2022	Wave Height Low (ft)	2
S9	08 Nov 2022	High Tide (ft)	6.2
S9	08 Nov 2022	High Tide Time	809
S9	08 Nov 2022	Low Tide (ft)	1.3
S9	08 Nov 2022	Low Tide Time	202

Station	Date	Parameter	Value
S9	08 Nov 2022	Comments	none
S9	15 Nov 2022	Arrive Time	928
S9	15 Nov 2022	Weather	Sunny
S9	15 Nov 2022	Wind Speed (kts)	0.3
S9	15 Nov 2022	Wind Dir	W
S9	15 Nov 2022	Animal Life	Bird-1; Dog-1
S9	15 Nov 2022	Floatables	Foam
S9	15 Nov 2022	Water Color	Green
S9	15 Nov 2022	Current Direction	S
S9	15 Nov 2022	Water Temp (C)	17.3
S9	15 Nov 2022	Wave Height Low (ft)	2
S9	15 Nov 2022	High Tide (ft)	3.56
S9	15 Nov 2022	High Tide Time	504
S9	15 Nov 2022	Low Tide (ft)	3.47
S9	15 Nov 2022	Low Tide Time	743
S9	15 Nov 2022	Comments	Water clear; Surfer/Paddle boarder-1; Trash-1; Kelp; Person/Walker/Jogger-6
S9	22 Nov 2022	Arrive Time	924
S9	22 Nov 2022	Weather	Sunny
S9	22 Nov 2022	Wind Speed (kts)	0.3
S9	22 Nov 2022	Wind Dir	W
S9	22 Nov 2022	Animal Life	Seagull-1
S9	22 Nov 2022	Floatables	None
S9	22 Nov 2022	Water Color	Green
S9	22 Nov 2022	Current Direction	S
S9	22 Nov 2022	Water Temp (C)	16.2
S9	22 Nov 2022	Wave Height Low (ft)	2
S9	22 Nov 2022	High Tide (ft)	6.25
S9	22 Nov 2022	High Tide Time	708
S9	22 Nov 2022	Low Tide (ft)	1.17
S9	22 Nov 2022	Low Tide Time	55
S9	22 Nov 2022	Comments	Water turbid; Boogie boarder/Swimmer-16; Surfer/Paddle boarder-8; Boater/Kayaker-5; Trash-1; Person/Walker/Jogger-6
S9	29 Nov 2022	Arrive Time	824
S9	29 Nov 2022	Weather	Cloudy
S9	29 Nov 2022	Wind Speed (kts)	5.4
S9	29 Nov 2022	Wind Dir	SE
S9	29 Nov 2022	Animal Life	Seagull-3
S9	29 Nov 2022	Floatables	None
S9	29 Nov 2022	Water Color	Green
S9	29 Nov 2022	Current Direction	N
S9	29 Nov 2022	Water Temp (C)	16
S9	29 Nov 2022	Wave Height Low (ft)	3
S9	29 Nov 2022	High Tide (ft)	3.75
S9	29 Nov 2022	High Tide Time	236
S9	29 Nov 2022	Low Tide (ft)	2.94
S9	29 Nov 2022	Low Tide Time	706
S9	29 Nov 2022	Comments	Water clear; Boogie boarder/Swimmer-2; Boater/Kayaker-3; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-3; -1
S10	01 Nov 2022	Arrive Time	1157
S10	01 Nov 2022	Weather	Cloudy
S10	01 Nov 2022	Wind Speed (kts)	7.5
S10	01 Nov 2022	Wind Dir	W
S10	01 Nov 2022	Animal Life	
S10	01 Nov 2022	Floatables	Foam
S10	01 Nov 2022	Water Color	Green

Station	Date	Parameter	Value
S10	01 Nov 2022	Current Direction	N
S10	01 Nov 2022	Water Temp (C)	19.7
S10	01 Nov 2022	Wave Height Low (ft)	3
S10	01 Nov 2022	High Tide (ft)	3.89
S10	01 Nov 2022	High Tide Time	542
S10	01 Nov 2022	Low Tide (ft)	3.1
S10	01 Nov 2022	Low Tide Time	1010
S10	01 Nov 2022	Comments	none
S10	08 Nov 2022	Arrive Time	1055
S10	08 Nov 2022	Weather	Moderate rain
S10	08 Nov 2022	Wind Speed (kts)	16.7
S10	08 Nov 2022	Wind Dir	S
S10	08 Nov 2022	Animal Life	
S10	08 Nov 2022	Floatables	None
S10	08 Nov 2022	Water Color	Green
S10	08 Nov 2022	Current Direction	N
S10	08 Nov 2022	Water Temp (C)	19
S10	08 Nov 2022	Wave Height Low (ft)	4
S10	08 Nov 2022	High Tide (ft)	6.2
S10	08 Nov 2022	High Tide Time	809
S10	08 Nov 2022	Low Tide (ft)	1.3
S10	08 Nov 2022	Low Tide Time	202
S10	08 Nov 2022	Comments	none
S10	15 Nov 2022	Arrive Time	1212
S10	15 Nov 2022	Weather	Sunny
S10	15 Nov 2022	Wind Speed (kts)	12.4
S10	15 Nov 2022	Wind Dir	NW
S10	15 Nov 2022	Animal Life	Bird-300
S10	15 Nov 2022	Floatables	None
S10	15 Nov 2022	Water Color	Green
S10	15 Nov 2022	Current Direction	S
S10	15 Nov 2022	Water Temp (C)	15.2
S10	15 Nov 2022	Wave Height Low (ft)	4
S10	15 Nov 2022	High Tide (ft)	3.56
S10	15 Nov 2022	High Tide Time	504
S10	15 Nov 2022	Low Tide (ft)	3.47
S10	15 Nov 2022	Low Tide Time	743
S10	15 Nov 2022	Comments	none
S10	22 Nov 2022	Arrive Time	1143
S10	22 Nov 2022	Weather	Sunny
S10	22 Nov 2022	Wind Speed (kts)	6
S10	22 Nov 2022	Wind Dir	NW
S10	22 Nov 2022	Animal Life	Bird-5
S10	22 Nov 2022	Floatables	None
S10	22 Nov 2022	Water Color	Green
S10	22 Nov 2022	Current Direction	N
S10	22 Nov 2022	Water Temp (C)	14.6
S10	22 Nov 2022	Wave Height Low (ft)	3
S10	22 Nov 2022	High Tide (ft)	6.25
S10	22 Nov 2022	High Tide Time	708
S10	22 Nov 2022	Low Tide (ft)	1.17
S10	22 Nov 2022	Low Tide Time	55
S10	22 Nov 2022	Comments	none
S10	29 Nov 2022	Arrive Time	1017
S10	29 Nov 2022	Weather	Cloudy
S10	29 Nov 2022	Wind Speed (kts)	5.2
S10	29 Nov 2022	Wind Dir	E

Station	Date	Parameter	Value
S10	29 Nov 2022	Animal Life	Bird-10; Seagull-2
S10	29 Nov 2022	Floatables	Dead animals
S10	29 Nov 2022	Water Color	Green
S10	29 Nov 2022	Current Direction	N
S10	29 Nov 2022	Water Temp (C)	16
S10	29 Nov 2022	Wave Height Low (ft)	5
S10	29 Nov 2022	High Tide (ft)	3.75
S10	29 Nov 2022	High Tide Time	236
S10	29 Nov 2022	Low Tide (ft)	2.94
S10	29 Nov 2022	Low Tide Time	706
S10	29 Nov 2022	Comments	none
S11	01 Nov 2022	Arrive Time	1059
S11	01 Nov 2022	Weather	Cloudy
S11	01 Nov 2022	Wind Speed (kts)	7.1
S11	01 Nov 2022	Wind Dir	SW
S11	01 Nov 2022	Animal Life	
S11	01 Nov 2022	Floatables	Foam
S11	01 Nov 2022	Water Color	Green
S11	01 Nov 2022	Current Direction	S
S11	01 Nov 2022	Water Temp (C)	19.8
S11	01 Nov 2022	Wave Height Low (ft)	4
S11	01 Nov 2022	High Tide (ft)	3.89
S11	01 Nov 2022	High Tide Time	542
S11	01 Nov 2022	Low Tide (ft)	3.1
S11	01 Nov 2022	Low Tide Time	1010
S11	01 Nov 2022	Comments	Water clear; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-2
S11	08 Nov 2022	Arrive Time	933
S11	08 Nov 2022	Weather	Cloudy
S11	08 Nov 2022	Wind Speed (kts)	19.6
S11	08 Nov 2022	Wind Dir	S
S11	08 Nov 2022	Animal Life	
S11	08 Nov 2022	Floatables	Foam
S11	08 Nov 2022	Water Color	Green
S11	08 Nov 2022	Current Direction	N
S11	08 Nov 2022	Water Temp (C)	19.7
S11	08 Nov 2022	Wave Height Low (ft)	6
S11	08 Nov 2022	High Tide (ft)	6.2
S11	08 Nov 2022	High Tide Time	809
S11	08 Nov 2022	Low Tide (ft)	1.3
S11	08 Nov 2022	Low Tide Time	202
S11	08 Nov 2022	Comments	none
S11	15 Nov 2022	Arrive Time	1044
S11	15 Nov 2022	Weather	Sunny
S11	15 Nov 2022	Wind Speed (kts)	6.8
S11	15 Nov 2022	Wind Dir	NW
S11	15 Nov 2022	Animal Life	Bird-5
S11	15 Nov 2022	Floatables	None
S11	15 Nov 2022	Water Color	Green
S11	15 Nov 2022	Current Direction	S
S11	15 Nov 2022	Water Temp (C)	16.3
S11	15 Nov 2022	Wave Height Low (ft)	3
S11	15 Nov 2022	High Tide (ft)	3.56
S11	15 Nov 2022	High Tide Time	504
S11	15 Nov 2022	Low Tide (ft)	3.47
S11	15 Nov 2022	Low Tide Time	743
S11	15 Nov 2022	Comments	Water turbid; Trash-1; Kelp; Seagrass; Debris; Person/Walker/Jogger-2

Station	Date	Parameter	Value
S11	22 Nov 2022	Arrive Time	1049
S11	22 Nov 2022	Weather	Sunny
S11	22 Nov 2022	Wind Speed (kts)	4.5
S11	22 Nov 2022	Wind Dir	NW
S11	22 Nov 2022	Animal Life	
S11	22 Nov 2022	Floatables	None
S11	22 Nov 2022	Water Color	Green
S11	22 Nov 2022	Current Direction	N
S11	22 Nov 2022	Water Temp (C)	17.9
S11	22 Nov 2022	Wave Height Low (ft)	3
S11	22 Nov 2022	High Tide (ft)	6.25
S11	22 Nov 2022	High Tide Time	708
S11	22 Nov 2022	Low Tide (ft)	1.17
S11	22 Nov 2022	Low Tide Time	55
S11	22 Nov 2022	Comments	none
S11	29 Nov 2022	Arrive Time	931
S11	29 Nov 2022	Weather	Drizzle
S11	29 Nov 2022	Wind Speed (kts)	8.7
S11	29 Nov 2022	Wind Dir	SE
S11	29 Nov 2022	Animal Life	Bird-3; Seagull-1
S11	29 Nov 2022	Floatables	Dead animals
S11	29 Nov 2022	Water Color	Green
S11	29 Nov 2022	Current Direction	N
S11	29 Nov 2022	Water Temp (C)	16
S11	29 Nov 2022	Wave Height Low (ft)	4
S11	29 Nov 2022	High Tide (ft)	3.75
S11	29 Nov 2022	High Tide Time	236
S11	29 Nov 2022	Low Tide (ft)	2.94
S11	29 Nov 2022	Low Tide Time	706
S11	29 Nov 2022	Comments	none
S12	01 Nov 2022	Arrive Time	1008
S12	01 Nov 2022	Weather	Partly cloudy
S12	01 Nov 2022	Wind Speed (kts)	8.7
S12	01 Nov 2022	Wind Dir	S
S12	01 Nov 2022	Animal Life	Dog-1
S12	01 Nov 2022	Floatables	None
S12	01 Nov 2022	Water Color	Green
S12	01 Nov 2022	Current Direction	N
S12	01 Nov 2022	Water Temp (C)	19.8
S12	01 Nov 2022	Wave Height Low (ft)	3
S12	01 Nov 2022	High Tide (ft)	3.89
S12	01 Nov 2022	High Tide Time	542
S12	01 Nov 2022	Low Tide (ft)	3.1
S12	01 Nov 2022	Low Tide Time	1010
S12	01 Nov 2022	Comments	Water clear; Surfer/Paddle boarder-1; Trash-1; Person/Walker/Jogger-3
S12	08 Nov 2022	Arrive Time	858
S12	08 Nov 2022	Weather	Cloudy
S12	08 Nov 2022	Wind Speed (kts)	7.7
S12	08 Nov 2022	Wind Dir	S
S12	08 Nov 2022	Animal Life	Dog-1; Seagull-4
S12	08 Nov 2022	Floatables	Foam
S12	08 Nov 2022	Water Color	Green
S12	08 Nov 2022	Current Direction	N
S12	08 Nov 2022	Water Temp (C)	18.8
S12	08 Nov 2022	Wave Height Low (ft)	3
S12	08 Nov 2022	High Tide (ft)	6.2

Station	Date	Parameter	Value
S12	08 Nov 2022	High Tide Time	809
S12	08 Nov 2022	Low Tide (ft)	1.3
S12	08 Nov 2022	Low Tide Time	202
S12	08 Nov 2022	Comments	Water clear; Trash-1; Kelp; Seagrass; Algae; Debris; Person/Walker/Jogger-2
S12	15 Nov 2022	Arrive Time	1011
S12	15 Nov 2022	Weather	Sunny
S12	15 Nov 2022	Wind Speed (kts)	6.4
S12	15 Nov 2022	Wind Dir	NW
S12	15 Nov 2022	Animal Life	Bird-5; Dog-2; Dolphin-1
S12	15 Nov 2022	Floatables	None
S12	15 Nov 2022	Water Color	Green
S12	15 Nov 2022	Current Direction	N
S12	15 Nov 2022	Water Temp (C)	17
S12	15 Nov 2022	Wave Height Low (ft)	2
S12	15 Nov 2022	High Tide (ft)	3.56
S12	15 Nov 2022	High Tide Time	504
S12	15 Nov 2022	Low Tide (ft)	3.47
S12	15 Nov 2022	Low Tide Time	743
S12	15 Nov 2022	Comments	Water turbid; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-5
S12	22 Nov 2022	Arrive Time	956
S12	22 Nov 2022	Weather	Sunny
S12	22 Nov 2022	Wind Speed (kts)	0
S12	22 Nov 2022	Wind Dir	
S12	22 Nov 2022	Animal Life	Bird-43
S12	22 Nov 2022	Floatables	Foam
S12	22 Nov 2022	Water Color	Green
S12	22 Nov 2022	Current Direction	N
S12	22 Nov 2022	Water Temp (C)	16.5
S12	22 Nov 2022	Wave Height Low (ft)	3
S12	22 Nov 2022	High Tide (ft)	6.25
S12	22 Nov 2022	High Tide Time	708
S12	22 Nov 2022	Low Tide (ft)	1.17
S12	22 Nov 2022	Low Tide Time	55
S12	22 Nov 2022	Comments	Water clear; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-3
S12	29 Nov 2022	Arrive Time	903
S12	29 Nov 2022	Weather	Drizzle
S12	29 Nov 2022	Wind Speed (kts)	5.6
S12	29 Nov 2022	Wind Dir	SE
S12	29 Nov 2022	Animal Life	Bird-1; Dog-2; Seagull-2
S12	29 Nov 2022	Floatables	Foam
S12	29 Nov 2022	Water Color	Green
S12	29 Nov 2022	Current Direction	N
S12	29 Nov 2022	Water Temp (C)	16
S12	29 Nov 2022	Wave Height Low (ft)	4
S12	29 Nov 2022	High Tide (ft)	3.75
S12	29 Nov 2022	High Tide Time	236
S12	29 Nov 2022	Low Tide (ft)	2.94
S12	29 Nov 2022	Low Tide Time	706
S12	29 Nov 2022	Comments	Water clear; Trash-3; Kelp; Seagrass; Person/Walker/Jogger-7; Sewage-like odor



# 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 Nov 2022	8	8	9	2	2	3	10
02 Nov 2022	7	6	9	2	2	3	10
03 Nov 2022	7	6	9	2	2	3	10
04 Nov 2022	7	6	9	2	2	3	10
05 Nov 2022	7	6	9	2	2	3	10
06 Nov 2022	7	6	9	2	2	3	10
07 Nov 2022	6	5	7	2	2	3	7
08 Nov 2022	6	5	7	2	2	3	7
09 Nov 2022	6	5	7	2	2	3	7
10 Nov 2022	7	6	9	2	2	3	10
11 Nov 2022	7	6	9	2	2	3	10
12 Nov 2022	7	6	9	2	2	3	10
13 Nov 2022	7	6	9	2	2	3	10
14 Nov 2022	16	14	14	3	3	4	19
15 Nov 2022	16	14	14	3	3	4	19
16 Nov 2022	16	14	14	3	3	4	19
17 Nov 2022	28	20	20	3	3	4	33
18 Nov 2022	28	20	20	3	3	4	33
19 Nov 2022	28	36	35	3	3	5	33
20 Nov 2022	28	36	35	3	3	5	33
21 Nov 2022	19	27	26	3	3	4	35
22 Nov 2022	19	27	26	3	3	4	35
23 Nov 2022	19	27	26	3	3	4	35
24 Nov 2022	9	12	8	3	3	3	15
25 Nov 2022	9	12	8	3	3	3	15
26 Nov 2022	9	12	8	3	3	3	15
27 Nov 2022	9	12	8	3	3	3	15
28 Nov 2022	9	12	8	3	3	3	15
29 Nov 2022	9	12	8	3	3	3	15
30 Nov 2022	9	12	8	3	3	3	15

\* 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
01 Nov 2022	IC						
07 Nov 2022	IC						
14 Nov 2022	E	E	IC	IC	IC	IC	IC
21 Nov 2022	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 Nov 2022	4	3	4	2	2	2	4
02 Nov 2022	4	3	4	2	2	2	4
03 Nov 2022	4	3	4	2	2	2	4
04 Nov 2022	4	3	4	2	2	2	4
05 Nov 2022	4	3	4	2	2	2	4
06 Nov 2022	4	3	4	2	2	2	4
07 Nov 2022	3	3	4	2	2	2	4
08 Nov 2022	3	3	4	2	2	2	4
09 Nov 2022	3	3	4	2	2	2	4
10 Nov 2022	4	3	4	2	2	2	4
11 Nov 2022	4	3	4	2	2	2	4
12 Nov 2022	4	3	4	2	2	2	4
13 Nov 2022	4	3	4	2	2	2	4
14 Nov 2022	8	5	7	2	2	3	6
15 Nov 2022	8	5	7	2	2	3	6
16 Nov 2022	8	5	7	2	2	3	6
17 Nov 2022	8	5	7	2	2	3	6
18 Nov 2022	8	5	7	2	2	3	6
19 Nov 2022	8	5	7	2	2	3	6
20 Nov 2022	8	5	7	2	2	3	6
21 Nov 2022	7	5	7	2	2	3	8
22 Nov 2022	8	6	9	2	2	3	10
23 Nov 2022	8	6	9	2	2	3	10
24 Nov 2022	8	6	9	2	2	3	10
25 Nov 2022	8	6	9	2	2	3	10
26 Nov 2022	8	6	9	2	2	3	10
27 Nov 2022	8	6	9	2	2	3	10
28 Nov 2022	8	6	9	2	2	3	10
29 Nov 2022	11	6	9	2	2	3	13
30 Nov 2022	11	6	9	2	2	3	13

\* 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
November	E	E	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 SBOO 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

Date	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	6m	9m	140
01 Nov 2022	2	2	2	2	2	2	20	20	4	20	2	2	2	20	2	2	2	2	4
02 Nov 2022	2	2	2	2	2	2	11	20	3	11	2	2	2	20	2	2	2	2	3
03 Nov 2022	2	2	2	2	2	2	11	20	3	11	2	2	2	20	2	2	2	2	3
04 Nov 2022	2	2	2	2	2	2	11	20	3	11	2	2	2	20	2	2	2	2	3
05 Nov 2022	2	2	2	2	2	2	11	20	3	11	2	2	2	20	2	2	2	2	3
06 Nov 2022	2	2	2	2	2	2	11	20	2	20	2	2	2	20	2	2	2	2	3
07 Nov 2022	2	2	2	2	2	2	20	20	2	20	2	2	2	20	2	2	2	2	2
08 Nov 2022	2	2	2	2	2	2	20	20	2	20	2	2	2	20	2	2	2	2	2
09 Nov 2022	2	2	2	2	2	2	20	20	2	20	2	2	2	20	2	2	2	2	2
10 Nov 2022	2	2	4	2	11	11	2	2	2	2	2	2	2	11	2	2	2	2	3
11 Nov 2022	2	2	4	2	11	11	2	2	2	2	2	2	2	11	2	2	2	2	3
12 Nov 2022	2	2	4	2	11	11	2	2	2	2	2	2	2	11	2	2	2	2	3
13 Nov 2022	2	2	4	2	11	11	2	2	2	2	2	2	2	11	2	2	2	2	3
14 Nov 2022	2	2	6	2	20	20	2	2	2	2	2	2	2	20	2	2	2	2	4
15 Nov 2022	2	2	6	2	20	20	2	2	2	2	2	2	2	20	2	2	2	2	4
16 Nov 2022	2	2	6	2	20	20	2	2	2	2	2	2	2	20	2	2	2	2	4
17 Nov 2022	551	601	303	2	20	20	2	2	2	2	2	2	2	20	2	2	2	291	352
18 Nov 2022	551	601	303	2	20	20	2	2	2	2	2	2	2	20	2	2	2	291	201
19 Nov 2022	551	601	303	471	3310	460	201	321	151	2	15	5	2	11	31	2	11	291	352
20 Nov 2022	551	601	303	471	3310	460	201	321	151	2	15	5	2	11	31	2	11	291	352
21 Nov 2022	16	8	32	24	32	56	8	42	48	2	2	6	2	6	2	4	4	420	240
22 Nov 2022	16	8	32	24	32	56	8	42	48	2	2	6	2	6	2	4	4	420	240
23 Nov 2022	16	8	32	24	32	56	8	42	48	2	2	6	2	6	2	4	4	420	240
24 Nov 2022	9	5	19	13	26	38	5	22	25	2	2	4	2	4	2	2	3	211	122
25 Nov 2022	9	5	19	13	26	38	5	22	25	2	2	4	2	4	2	2	3	211	122
26 Nov 2022	9	5	19	13	26	38	5	22	25	2	2	4	2	4	2	2	3	211	122
27 Nov 2022	9	5	19	13	26	38	5	22	25	2	2	4	2	4	2	2	3	211	122
28 Nov 2022	9	5	19	13	26	38	5	22	25	2	2	4	2	4	2	2	3	211	122
29 Nov 2022	9	5	19	13	26	38	5	22	25	2	2	4	2	4	2	2	3	211	122
30 Nov 2022	9	5	19	13	26	38	5	22	25	2	2	4	2	4	2	2	3	211	181

**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
November	E	E	E	E	E	E	E	E	IC	IC	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	01 Nov 2022	1105	2	<2	<2	<2	18.1	69.46	8.9	33.46	8.2
I19	01 Nov 2022	1105	6	<2	<2	<2	18.1	75.15	8.5	33.46	8.2
I19	01 Nov 2022	1105	11	<2	<2	<2	17.9	72.37	8.4	33.45	8.2
I19	07 Nov 2022	1102	2	<2	<2	<2	16.6	83.45	8.0	33.48	8.2
I19	07 Nov 2022	1102	6	<2	<2	<2	16.5	81.08	8.0	33.48	8.2
I19	07 Nov 2022	1102	11	6e	<2	<2	16.3	74.66	7.9	33.46	8.1
I19	14 Nov 2022	1120	2	7000	800	160e	15.6	35.55	6.8	33.37	8.1
I19	14 Nov 2022	1120	6	1200e	220e	340e	15.4	46.98	6.0	33.38	8.0
I19	14 Nov 2022	1120	11	600e	280e	760	15.3	16.56	6.0	33.39	8.0
I19	21 Nov 2022	1030	2	16e	4e	2e	14.8	65.53	8.3	33.43	8.1
I19	21 Nov 2022	1030	6	8e	<2	8e	14.6	63.04	8.2	33.43	8.1
I19	21 Nov 2022	1030	11	32e	6e	2e	14.5	63.93	8.1	33.43	8.1
I24	01 Nov 2022	1125	2	<2	<2	<2	18.1	77.15	8.4	33.45	8.2
I24	01 Nov 2022	1125	6	<20	<2	<2	17.9	74.19	7.6	33.43	8.2
I24	01 Nov 2022	1125	11	<20	<2	<2	16.3	60.63	6.5	33.41	8.1
I24	07 Nov 2022	1127	2	2e	2e	<2	16.8	83.07	8.0	33.50	8.2
I24	07 Nov 2022	1127	6	<2	<2	<2	16.4	75.55	8.0	33.46	8.2
I24	07 Nov 2022	1127	11	2e	<2	<2	15.1	71.66	6.5	33.41	8.0
I24	14 Nov 2022	1146	2	940	320e	16e	16.3	67.31	7.1	33.35	8.1
I24	14 Nov 2022	1146	6	7000	1100	180e	15.9	71.10	6.8	33.35	8.1
I24	14 Nov 2022	1146	11	3800e	480	72	15.4	45.67	5.5	33.38	8.0
I24	21 Nov 2022	1048	2	24e	4e	8e	14.8	67.45	7.4	33.42	8.0
I24	21 Nov 2022	1048	6	32e	<2	4e	14.7	66.27	7.3	33.42	8.0
I24	21 Nov 2022	1048	11	56	22e	24e	14.6	50.98	6.7	33.41	8.0
I25	01 Nov 2022	1134	2	<2	<2	<2	18.5	84.42	8.0	33.51	8.2
I25	01 Nov 2022	1134	6	<2	<2	<2	18.1	78.80	8.0	33.45	8.2
I25	01 Nov 2022	1134	9	2e	<2	<2	16.6	75.36	7.2	33.41	8.1
I25	07 Nov 2022	1132	2	<2	2e	<2	16.8	83.29	8.0	33.50	8.2
I25	07 Nov 2022	1132	6	<2	<2	2e	16.1	76.55	7.7	33.45	8.2
I25	07 Nov 2022	1132	9	<2	<2	<2	15.2	78.83	6.7	33.41	8.1
I25	14 Nov 2022	1152	2	400e	280e	60	16.5	60.90	7.0	33.39	8.1
I25	14 Nov 2022	1152	6	640	<20	64	15.9	59.73	6.1	33.38	8.0
I25	14 Nov 2022	1152	9	300e	26e	14e	15.4	46.53	5.6	33.39	8.0
I25	21 Nov 2022	1055	2	8e	<2	4e	15.1	66.74	7.3	33.46	8.0
I25	21 Nov 2022	1055	6	42	12e	16e	14.6	59.96	7.0	33.42	8.0
I25	21 Nov 2022	1055	9	48	8e	18e	14.6	61.53	6.9	33.42	8.0
I26	01 Nov 2022	1144	2	<2	<2	<2	18.4	74.97	8.6	33.50	8.2
I26	01 Nov 2022	1144	6	<2	<2	<2	17.4	85.02	8.4	33.50	8.2
I26	01 Nov 2022	1144	9	<2	<2	<2	16.7	79.80	7.3	33.47	8.1

Station	Date	Time	Depth	Total	Fecal	Enteric	Temp	XMS	DO	Sal	pH
I26	07 Nov 2022	1149	2	<2	<2	<2	16.8	82.55	7.9	33.51	8.2
I26	07 Nov 2022	1149	6	<2	<2	<2	16.3	77.88	7.8	33.46	8.2
I26	07 Nov 2022	1149	9	<2	<2	<2	14.6	80.90	6.8	33.42	8.1
I26	14 Nov 2022	1203	2	12e	<2	<2	16.6	70.19	7.6	33.48	8.1
I26	14 Nov 2022	1203	6	40e	8e	<4	16.2	73.11	7.2	33.46	8.1
I26	14 Nov 2022	1203	9	60e	8e	<2	15.4	73.71	6.2	33.40	8.1
I26	21 Nov 2022	1105	2	<2	<2	<2	15.3	76.56	7.5	33.47	8.1
I26	21 Nov 2022	1105	6	2e	2e	<2	14.8	73.87	6.6	33.43	8.0
I26	21 Nov 2022	1105	9	6e	2e	<2	14.8	75.60	6.5	33.43	8.0
I32	01 Nov 2022	1158	2	<2	<2	<2	18.2	80.07	8.2	33.46	8.2
I32	01 Nov 2022	1158	6	<2	<2	<2	18.1	80.07	8.2	33.46	8.2
I32	01 Nov 2022	1158	9	<2	<2	<2	18.0	78.84	7.9	33.45	8.2
I32	07 Nov 2022	1202	2	<2	<2	<2	16.5	78.40	7.6	33.46	8.1
I32	07 Nov 2022	1202	6	<2	<2	<2	16.4	78.43	7.6	33.46	8.1
I32	07 Nov 2022	1202	9	<2	<2	<2	16.4	70.36	7.7	33.46	8.1
I32	14 Nov 2022	1216	2	6e	<2	<2	16.7	70.87	7.7	33.51	8.2
I32	14 Nov 2022	1216	6	40e	8e	<2	16.3	63.87	7.3	33.50	8.1
I32	14 Nov 2022	1216	9	60e	8e	12e	16.2	62.00	6.9	33.49	8.1
I32	21 Nov 2022	1121	2	<2	<2	<2	15.4	68.71	7.3	33.48	8.0
I32	21 Nov 2022	1121	6	<2	<2	<2	14.9	69.20	6.5	33.44	8.0
I32	21 Nov 2022	1121	9	6e	2e	<2	14.8	65.50	5.8	33.41	8.0
I39	01 Nov 2022	1041	2	<2	<2	<2	18.5	85.79	7.9	33.53	8.2
I39	01 Nov 2022	1041	12	<2	<2	<2	16.2	87.27	7.3	33.40	8.1
I39	01 Nov 2022	1041	18	<2	<2	<2	15.3	87.57	6.9	33.38	8.1
I39	07 Nov 2022	1036	2	<2	<2	<2	16.8	85.42	7.5	33.52	8.2
I39	07 Nov 2022	1036	12	<2	<2	<2	15.0	88.58	7.0	33.43	8.1
I39	07 Nov 2022	1036	18	<2	<2	<2	14.1	86.99	6.6	33.42	8.0
I39	14 Nov 2022	1103	2	80e	14e	8e	16.1	75.52	7.5	33.41	8.1
I39	14 Nov 2022	1103	12	120e	18e	6e	15.8	83.96	7.1	33.39	8.1
I39	14 Nov 2022	1103	18	20e	4e	<2	14.7	87.80	5.7	33.40	8.0
I39	21 Nov 2022	1006	2	<2	<2	<2	15.4	78.27	8.2	33.47	8.1
I39	21 Nov 2022	1006	12	<2	<2	<2	15.1	78.71	7.9	33.45	8.1
I39	21 Nov 2022	1006	18	4e	4e	2e	14.6	80.97	6.6	33.41	8.0
I40	01 Nov 2022	1116	2	<2	<2	<2	18.2	71.82	9.0	33.46	8.2
I40	01 Nov 2022	1116	6	<2	<2	<2	18.0	79.90	8.5	33.45	8.2
I40	01 Nov 2022	1116	9	4e	<2	<2	18.0	61.04	8.0	33.45	8.2
I40	07 Nov 2022	1116	2	<2	<2	<2	16.6	81.38	8.1	33.48	8.2
I40	07 Nov 2022	1116	6	<2	<2	<2	16.5	81.24	8.1	33.48	8.2
I40	07 Nov 2022	1116	9	<2	4e	<2	16.2	76.75	7.7	33.46	8.1
I40	14 Nov 2022	1135	2	580	80	16e	16.3	49.41	7.1	33.39	8.1
I40	14 Nov 2022	1135	6	400e	360e	240e	16.0	45.75	7.2	33.43	8.1
I40	14 Nov 2022	1135	9	700	180e	260e	15.3	46.88	6.0	33.39	8.0
I40	21 Nov 2022	1041	2	420	46	12e	14.7	46.79	7.4	33.41	8.0
I40	21 Nov 2022	1041	6	360e	66	30e	14.5	56.98	7.5	33.40	8.0
I40	21 Nov 2022	1041	9	240e	30e	30e	14.5	59.30	7.4	33.41	8.0

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	01 Nov 2022	Depth (m)	11
I19	01 Nov 2022	Arrive Time	1105
I19	01 Nov 2022	Depart Time	1109
I19	01 Nov 2022	Air Temp (C)	18.2
I19	01 Nov 2022	Weather	Partly Cloudy
I19	01 Nov 2022	Visibility (mi)	5
I19	01 Nov 2022	Wind Speed (kts)	11.6
I19	01 Nov 2022	Wind Dir	SW
I19	01 Nov 2022	Water Color	Blue
I19	01 Nov 2022	Wave Ht Low (ft)	3
I19	01 Nov 2022	Wave Period (sec)	10
I19	01 Nov 2022	Sea State	Light Chop
I19	01 Nov 2022	High Tide (ft)	4.82
I19	01 Nov 2022	High Tide Time	2248
I19	01 Nov 2022	Low Tide (ft)	-0.1
I19	01 Nov 2022	Low Tide Time	624
I19	01 Nov 2022	Comments	Strong drift; Started outside station
I19	07 Nov 2022	Depth (m)	11
I19	07 Nov 2022	Arrive Time	1102
I19	07 Nov 2022	Depart Time	1108
I19	07 Nov 2022	Air Temp (C)	16.4
I19	07 Nov 2022	Weather	Partly Cloudy
I19	07 Nov 2022	Visibility (mi)	11
I19	07 Nov 2022	Wind Speed (kts)	14.5
I19	07 Nov 2022	Wind Dir	S
I19	07 Nov 2022	Water Color	Blue
I19	07 Nov 2022	Wave Ht Low (ft)	4.3
I19	07 Nov 2022	Wave Period (sec)	14
I19	07 Nov 2022	Sea State	Light Chop
I19	07 Nov 2022	High Tide (ft)	6.09
I19	07 Nov 2022	High Tide Time	1542
I19	07 Nov 2022	Low Tide (ft)	-0.31
I19	07 Nov 2022	Low Tide Time	2230
I19	07 Nov 2022	Comments	none
I19	14 Nov 2022	Depth (m)	11
I19	14 Nov 2022	Arrive Time	1120
I19	14 Nov 2022	Depart Time	1125
I19	14 Nov 2022	Air Temp (C)	16.5
I19	14 Nov 2022	Weather	Clear
I19	14 Nov 2022	Visibility (mi)	10
I19	14 Nov 2022	Wind Speed (kts)	5
I19	14 Nov 2022	Wind Dir	W
I19	14 Nov 2022	Water Color	Greenish-Brown
I19	14 Nov 2022	Wave Ht Low (ft)	4
I19	14 Nov 2022	Wave Period (sec)	20
I19	14 Nov 2022	Sea State	Light Chop
I19	14 Nov 2022	High Tide (ft)	4.49
I19	14 Nov 2022	High Tide Time	1924
I19	14 Nov 2022	Low Tide (ft)	0.68
I19	14 Nov 2022	Low Tide Time	406
I19	14 Nov 2022	Comments	none
I19	21 Nov 2022	Depth (m)	10
I19	21 Nov 2022	Arrive Time	1030

Station	Date	Parameter	Value
I19	21 Nov 2022	Depart Time	1035
I19	21 Nov 2022	Air Temp (C)	17.4
I19	21 Nov 2022	Weather	Partly Cloudy
I19	21 Nov 2022	Visibility (mi)	8
I19	21 Nov 2022	Wind Speed (kts)	4
I19	21 Nov 2022	Wind Dir	N
I19	21 Nov 2022	Water Color	Green
I19	21 Nov 2022	Wave Ht Low (ft)	3
I19	21 Nov 2022	Wave Period (sec)	18
I19	21 Nov 2022	Sea State	Calm
I19	21 Nov 2022	High Tide (ft)	5.74
I19	21 Nov 2022	High Tide Time	1442
I19	21 Nov 2022	Low Tide (ft)	0.01
I19	21 Nov 2022	Low Tide Time	2130
I19	21 Nov 2022	Comments	none
I24	01 Nov 2022	Depth (m)	10
I24	01 Nov 2022	Arrive Time	1125
I24	01 Nov 2022	Depart Time	1131
I24	01 Nov 2022	Air Temp (C)	18.2
I24	01 Nov 2022	Weather	Partly Cloudy
I24	01 Nov 2022	Visibility (mi)	5
I24	01 Nov 2022	Wind Speed (kts)	7.8
I24	01 Nov 2022	Wind Dir	SW
I24	01 Nov 2022	Water Color	Green
I24	01 Nov 2022	Wave Ht Low (ft)	3
I24	01 Nov 2022	Wave Period (sec)	10
I24	01 Nov 2022	Sea State	Light Chop
I24	01 Nov 2022	High Tide (ft)	4.82
I24	01 Nov 2022	High Tide Time	2248
I24	01 Nov 2022	Low Tide (ft)	-0.1
I24	01 Nov 2022	Low Tide Time	624
I24	01 Nov 2022	Comments	none
I24	07 Nov 2022	Depth (m)	10
I24	07 Nov 2022	Arrive Time	1127
I24	07 Nov 2022	Depart Time	1129
I24	07 Nov 2022	Air Temp (C)	16.6
I24	07 Nov 2022	Weather	Partly Cloudy
I24	07 Nov 2022	Visibility (mi)	11
I24	07 Nov 2022	Wind Speed (kts)	9.4
I24	07 Nov 2022	Wind Dir	S
I24	07 Nov 2022	Water Color	Blue
I24	07 Nov 2022	Wave Ht Low (ft)	4.3
I24	07 Nov 2022	Wave Period (sec)	14
I24	07 Nov 2022	Sea State	Light Chop
I24	07 Nov 2022	High Tide (ft)	6.09
I24	07 Nov 2022	High Tide Time	1542
I24	07 Nov 2022	Low Tide (ft)	-0.31
I24	07 Nov 2022	Low Tide Time	2230
I24	07 Nov 2022	Comments	none
I24	14 Nov 2022	Depth (m)	11
I24	14 Nov 2022	Arrive Time	1146
I24	14 Nov 2022	Depart Time	1149
I24	14 Nov 2022	Air Temp (C)	16.1
I24	14 Nov 2022	Weather	Clear
I24	14 Nov 2022	Visibility (mi)	10
I24	14 Nov 2022	Wind Speed (kts)	8.5
I24	14 Nov 2022	Wind Dir	W
I24	14 Nov 2022	Water Color	Brownish-Green

Station	Date	Parameter	Value
I24	14 Nov 2022	Wave Ht Low (ft)	4
I24	14 Nov 2022	Wave Period (sec)	20
I24	14 Nov 2022	Sea State	Light Chop
I24	14 Nov 2022	High Tide (ft)	4.49
I24	14 Nov 2022	High Tide Time	1924
I24	14 Nov 2022	Low Tide (ft)	0.68
I24	14 Nov 2022	Low Tide Time	406
I24	14 Nov 2022	Comments	none
I24	21 Nov 2022	Depth (m)	10
I24	21 Nov 2022	Arrive Time	1048
I24	21 Nov 2022	Depart Time	1053
I24	21 Nov 2022	Air Temp (C)	17
I24	21 Nov 2022	Weather	Partly Cloudy
I24	21 Nov 2022	Visibility (mi)	8
I24	21 Nov 2022	Wind Speed (kts)	14.6
I24	21 Nov 2022	Wind Dir	NW
I24	21 Nov 2022	Water Color	Green
I24	21 Nov 2022	Wave Ht Low (ft)	3
I24	21 Nov 2022	Wave Period (sec)	18
I24	21 Nov 2022	Sea State	Calm
I24	21 Nov 2022	High Tide (ft)	5.74
I24	21 Nov 2022	High Tide Time	1442
I24	21 Nov 2022	Low Tide (ft)	0.01
I24	21 Nov 2022	Low Tide Time	2130
I24	21 Nov 2022	Comments	none
I25	01 Nov 2022	Depth (m)	9
I25	01 Nov 2022	Arrive Time	1134
I25	01 Nov 2022	Depart Time	1137
I25	01 Nov 2022	Air Temp (C)	18.2
I25	01 Nov 2022	Weather	Partly Cloudy
I25	01 Nov 2022	Visibility (mi)	5
I25	01 Nov 2022	Wind Speed (kts)	9.4
I25	01 Nov 2022	Wind Dir	SW
I25	01 Nov 2022	Water Color	Green
I25	01 Nov 2022	Wave Ht Low (ft)	3
I25	01 Nov 2022	Wave Period (sec)	10
I25	01 Nov 2022	Sea State	Light Chop
I25	01 Nov 2022	High Tide (ft)	4.82
I25	01 Nov 2022	High Tide Time	2248
I25	01 Nov 2022	Low Tide (ft)	-0.1
I25	01 Nov 2022	Low Tide Time	624
I25	01 Nov 2022	Comments	none
I25	07 Nov 2022	Depth (m)	8
I25	07 Nov 2022	Arrive Time	1132
I25	07 Nov 2022	Depart Time	1137
I25	07 Nov 2022	Air Temp (C)	16.7
I25	07 Nov 2022	Weather	Partly Cloudy
I25	07 Nov 2022	Visibility (mi)	11
I25	07 Nov 2022	Wind Speed (kts)	8.2
I25	07 Nov 2022	Wind Dir	SW
I25	07 Nov 2022	Water Color	Green
I25	07 Nov 2022	Wave Ht Low (ft)	4.3
I25	07 Nov 2022	Wave Period (sec)	14
I25	07 Nov 2022	Sea State	Light Chop
I25	07 Nov 2022	High Tide (ft)	6.09
I25	07 Nov 2022	High Tide Time	1542
I25	07 Nov 2022	Low Tide (ft)	-0.31
I25	07 Nov 2022	Low Tide Time	2230

Station	Date	Parameter	Value
I25	07 Nov 2022	Comments	none
I25	14 Nov 2022	Depth (m)	9
I25	14 Nov 2022	Arrive Time	1152
I25	14 Nov 2022	Depart Time	1158
I25	14 Nov 2022	Air Temp (C)	16.1
I25	14 Nov 2022	Weather	Clear
I25	14 Nov 2022	Visibility (mi)	10
I25	14 Nov 2022	Wind Speed (kts)	8.3
I25	14 Nov 2022	Wind Dir	W
I25	14 Nov 2022	Water Color	Brownish-Green
I25	14 Nov 2022	Wave Ht Low (ft)	4
I25	14 Nov 2022	Wave Period (sec)	20
I25	14 Nov 2022	Sea State	Light Chop
I25	14 Nov 2022	High Tide (ft)	4.49
I25	14 Nov 2022	High Tide Time	1924
I25	14 Nov 2022	Low Tide (ft)	0.68
I25	14 Nov 2022	Low Tide Time	406
I25	14 Nov 2022	Comments	none
I25	21 Nov 2022	Depth (m)	9
I25	21 Nov 2022	Arrive Time	1055
I25	21 Nov 2022	Depart Time	1101
I25	21 Nov 2022	Air Temp (C)	17.5
I25	21 Nov 2022	Weather	Partly Cloudy
I25	21 Nov 2022	Visibility (mi)	8
I25	21 Nov 2022	Wind Speed (kts)	12.5
I25	21 Nov 2022	Wind Dir	NW
I25	21 Nov 2022	Water Color	Green
I25	21 Nov 2022	Wave Ht Low (ft)	3
I25	21 Nov 2022	Wave Period (sec)	18
I25	21 Nov 2022	Sea State	Calm
I25	21 Nov 2022	High Tide (ft)	5.74
I25	21 Nov 2022	High Tide Time	1442
I25	21 Nov 2022	Low Tide (ft)	0.01
I25	21 Nov 2022	Low Tide Time	2130
I25	21 Nov 2022	Comments	none
I26	01 Nov 2022	Depth (m)	10
I26	01 Nov 2022	Arrive Time	1144
I26	01 Nov 2022	Depart Time	1147
I26	01 Nov 2022	Air Temp (C)	18.2
I26	01 Nov 2022	Weather	Partly Cloudy
I26	01 Nov 2022	Visibility (mi)	5
I26	01 Nov 2022	Wind Speed (kts)	8.2
I26	01 Nov 2022	Wind Dir	SW
I26	01 Nov 2022	Water Color	Brownish-Green
I26	01 Nov 2022	Wave Ht Low (ft)	3
I26	01 Nov 2022	Wave Period (sec)	10
I26	01 Nov 2022	Sea State	Light Chop
I26	01 Nov 2022	High Tide (ft)	4.82
I26	01 Nov 2022	High Tide Time	2248
I26	01 Nov 2022	Low Tide (ft)	-0.1
I26	01 Nov 2022	Low Tide Time	624
I26	01 Nov 2022	Comments	none
I26	07 Nov 2022	Depth (m)	1
I26	07 Nov 2022	Arrive Time	1149
I26	07 Nov 2022	Depart Time	1151
I26	07 Nov 2022	Air Temp (C)	16.8
I26	07 Nov 2022	Weather	Partly Cloudy

Station	Date	Parameter	Value
I26	07 Nov 2022	Visibility (mi)	11
I26	07 Nov 2022	Wind Speed (kts)	8.9
I26	07 Nov 2022	Wind Dir	S
I26	07 Nov 2022	Water Color	Green
I26	07 Nov 2022	Wave Ht Low (ft)	4.3
I26	07 Nov 2022	Wave Period (sec)	14
I26	07 Nov 2022	Sea State	Light Chop
I26	07 Nov 2022	High Tide (ft)	6.09
I26	07 Nov 2022	High Tide Time	1542
I26	07 Nov 2022	Low Tide (ft)	-0.31
I26	07 Nov 2022	Low Tide Time	2230
I26	07 Nov 2022	Comments	none
I26	14 Nov 2022	Depth (m)	9
I26	14 Nov 2022	Arrive Time	1203
I26	14 Nov 2022	Depart Time	1208
I26	14 Nov 2022	Air Temp (C)	16
I26	14 Nov 2022	Weather	Clear
I26	14 Nov 2022	Visibility (mi)	10
I26	14 Nov 2022	Wind Speed (kts)	8.1
I26	14 Nov 2022	Wind Dir	W
I26	14 Nov 2022	Water Color	Brownish-Green
I26	14 Nov 2022	Wave Ht Low (ft)	4
I26	14 Nov 2022	Wave Period (sec)	20
I26	14 Nov 2022	Sea State	Light Chop
I26	14 Nov 2022	High Tide (ft)	4.49
I26	14 Nov 2022	High Tide Time	1924
I26	14 Nov 2022	Low Tide (ft)	0.68
I26	14 Nov 2022	Low Tide Time	406
I26	14 Nov 2022	Comments	none
I26	21 Nov 2022	Depth (m)	9
I26	21 Nov 2022	Arrive Time	1105
I26	21 Nov 2022	Depart Time	1114
I26	21 Nov 2022	Air Temp (C)	17.3
I26	21 Nov 2022	Weather	Partly Cloudy
I26	21 Nov 2022	Visibility (mi)	8
I26	21 Nov 2022	Wind Speed (kts)	16.2
I26	21 Nov 2022	Wind Dir	NW
I26	21 Nov 2022	Water Color	Green
I26	21 Nov 2022	Wave Ht Low (ft)	3
I26	21 Nov 2022	Wave Period (sec)	18
I26	21 Nov 2022	Sea State	Calm
I26	21 Nov 2022	High Tide (ft)	5.74
I26	21 Nov 2022	High Tide Time	1442
I26	21 Nov 2022	Low Tide (ft)	0.01
I26	21 Nov 2022	Low Tide Time	2130
I26	21 Nov 2022	Comments	none
I32	01 Nov 2022	Depth (m)	11
I32	01 Nov 2022	Arrive Time	1158
I32	01 Nov 2022	Depart Time	1201
I32	01 Nov 2022	Air Temp (C)	18.1
I32	01 Nov 2022	Weather	Partly Cloudy
I32	01 Nov 2022	Visibility (mi)	5
I32	01 Nov 2022	Wind Speed (kts)	7.2
I32	01 Nov 2022	Wind Dir	SW
I32	01 Nov 2022	Water Color	Brownish-Green
I32	01 Nov 2022	Wave Ht Low (ft)	3
I32	01 Nov 2022	Wave Period (sec)	10
I32	01 Nov 2022	Sea State	Light Chop

Station	Date	Parameter	Value
I32	01 Nov 2022	High Tide (ft)	4.82
I32	01 Nov 2022	High Tide Time	2248
I32	01 Nov 2022	Low Tide (ft)	-0.1
I32	01 Nov 2022	Low Tide Time	624
I32	01 Nov 2022	Comments	none
I32	07 Nov 2022	Depth (m)	9
I32	07 Nov 2022	Arrive Time	1202
I32	07 Nov 2022	Depart Time	1205
I32	07 Nov 2022	Air Temp (C)	17.1
I32	07 Nov 2022	Weather	Partly Cloudy
I32	07 Nov 2022	Visibility (mi)	11
I32	07 Nov 2022	Wind Speed (kts)	7.9
I32	07 Nov 2022	Wind Dir	S
I32	07 Nov 2022	Water Color	Green
I32	07 Nov 2022	Wave Ht Low (ft)	4.3
I32	07 Nov 2022	Wave Period (sec)	14
I32	07 Nov 2022	Sea State	Light Chop
I32	07 Nov 2022	High Tide (ft)	6.09
I32	07 Nov 2022	High Tide Time	1542
I32	07 Nov 2022	Low Tide (ft)	-0.31
I32	07 Nov 2022	Low Tide Time	2230
I32	07 Nov 2022	Comments	none
I32	14 Nov 2022	Depth (m)	10
I32	14 Nov 2022	Arrive Time	1216
I32	14 Nov 2022	Depart Time	1221
I32	14 Nov 2022	Air Temp (C)	16
I32	14 Nov 2022	Weather	Clear
I32	14 Nov 2022	Visibility (mi)	10
I32	14 Nov 2022	Wind Speed (kts)	10.9
I32	14 Nov 2022	Wind Dir	W
I32	14 Nov 2022	Water Color	Brownish-Green
I32	14 Nov 2022	Wave Ht Low (ft)	4
I32	14 Nov 2022	Wave Period (sec)	20
I32	14 Nov 2022	Sea State	Light Chop
I32	14 Nov 2022	High Tide (ft)	4.49
I32	14 Nov 2022	High Tide Time	1924
I32	14 Nov 2022	Low Tide (ft)	0.68
I32	14 Nov 2022	Low Tide Time	406
I32	14 Nov 2022	Comments	none
I32	21 Nov 2022	Depth (m)	10
I32	21 Nov 2022	Arrive Time	1121
I32	21 Nov 2022	Depart Time	1124
I32	21 Nov 2022	Air Temp (C)	17.9
I32	21 Nov 2022	Weather	Partly Cloudy
I32	21 Nov 2022	Visibility (mi)	8
I32	21 Nov 2022	Wind Speed (kts)	7.3
I32	21 Nov 2022	Wind Dir	NW
I32	21 Nov 2022	Water Color	Green
I32	21 Nov 2022	Wave Ht Low (ft)	3
I32	21 Nov 2022	Wave Period (sec)	18
I32	21 Nov 2022	Sea State	Calm
I32	21 Nov 2022	High Tide (ft)	5.74
I32	21 Nov 2022	High Tide Time	1442
I32	21 Nov 2022	Low Tide (ft)	0.01
I32	21 Nov 2022	Low Tide Time	2130
I32	21 Nov 2022	Comments	none
I39	01 Nov 2022	Depth (m)	18

Station	Date	Parameter	Value
I39	01 Nov 2022	Arrive Time	1041
I39	01 Nov 2022	Depart Time	1047
I39	01 Nov 2022	Air Temp (C)	18.3
I39	01 Nov 2022	Weather	Partly Cloudy
I39	01 Nov 2022	Visibility (mi)	5
I39	01 Nov 2022	Wind Speed (kts)	15.8
I39	01 Nov 2022	Wind Dir	SW
I39	01 Nov 2022	Water Color	Blue
I39	01 Nov 2022	Wave Ht Low (ft)	3
I39	01 Nov 2022	Wave Period (sec)	10
I39	01 Nov 2022	Sea State	Light Chop
I39	01 Nov 2022	High Tide (ft)	4.82
I39	01 Nov 2022	High Tide Time	2248
I39	01 Nov 2022	Low Tide (ft)	-0.1
I39	01 Nov 2022	Low Tide Time	624
I39	01 Nov 2022	Comments	none
I39	07 Nov 2022	Depth (m)	19
I39	07 Nov 2022	Arrive Time	1036
I39	07 Nov 2022	Depart Time	1040
I39	07 Nov 2022	Air Temp (C)	16.8
I39	07 Nov 2022	Weather	Partly Cloudy
I39	07 Nov 2022	Visibility (mi)	11
I39	07 Nov 2022	Wind Speed (kts)	17.2
I39	07 Nov 2022	Wind Dir	S
I39	07 Nov 2022	Water Color	Blue
I39	07 Nov 2022	Wave Ht Low (ft)	4.3
I39	07 Nov 2022	Wave Period (sec)	14
I39	07 Nov 2022	Sea State	Light Chop
I39	07 Nov 2022	High Tide (ft)	6.09
I39	07 Nov 2022	High Tide Time	1542
I39	07 Nov 2022	Low Tide (ft)	-0.31
I39	07 Nov 2022	Low Tide Time	2230
I39	07 Nov 2022	Comments	none
I39	14 Nov 2022	Depth (m)	18
I39	14 Nov 2022	Arrive Time	1103
I39	14 Nov 2022	Depart Time	1107
I39	14 Nov 2022	Air Temp (C)	15.9
I39	14 Nov 2022	Weather	Clear
I39	14 Nov 2022	Visibility (mi)	10
I39	14 Nov 2022	Wind Speed (kts)	4.5
I39	14 Nov 2022	Wind Dir	W
I39	14 Nov 2022	Water Color	Green
I39	14 Nov 2022	Wave Ht Low (ft)	4
I39	14 Nov 2022	Wave Period (sec)	20
I39	14 Nov 2022	Sea State	Light Chop
I39	14 Nov 2022	High Tide (ft)	4.49
I39	14 Nov 2022	High Tide Time	1924
I39	14 Nov 2022	Low Tide (ft)	0.68
I39	14 Nov 2022	Low Tide Time	406
I39	14 Nov 2022	Comments	none
I39	21 Nov 2022	Depth (m)	19
I39	21 Nov 2022	Arrive Time	1006
I39	21 Nov 2022	Depart Time	1011
I39	21 Nov 2022	Air Temp (C)	16.5
I39	21 Nov 2022	Weather	Partly Cloudy
I39	21 Nov 2022	Visibility (mi)	8
I39	21 Nov 2022	Wind Speed (kts)	7.2
I39	21 Nov 2022	Wind Dir	N

Station	Date	Parameter	Value
I39	21 Nov 2022	Water Color	Green
I39	21 Nov 2022	Wave Ht Low (ft)	3
I39	21 Nov 2022	Wave Period (sec)	18
I39	21 Nov 2022	Sea State	Calm
I39	21 Nov 2022	High Tide (ft)	5.74
I39	21 Nov 2022	High Tide Time	1442
I39	21 Nov 2022	Low Tide (ft)	0.01
I39	21 Nov 2022	Low Tide Time	2130
I39	21 Nov 2022	Comments	Btl 1 not firing; Fired btl 4 manually at 2m
I40	01 Nov 2022	Depth (m)	10
I40	01 Nov 2022	Arrive Time	1116
I40	01 Nov 2022	Depart Time	1121
I40	01 Nov 2022	Air Temp (C)	18.3
I40	01 Nov 2022	Weather	Partly Cloudy
I40	01 Nov 2022	Visibility (mi)	5
I40	01 Nov 2022	Wind Speed (kts)	5.9
I40	01 Nov 2022	Wind Dir	SW
I40	01 Nov 2022	Water Color	Blue
I40	01 Nov 2022	Wave Ht Low (ft)	3
I40	01 Nov 2022	Wave Period (sec)	10
I40	01 Nov 2022	Sea State	Light Chop
I40	01 Nov 2022	High Tide (ft)	4.82
I40	01 Nov 2022	High Tide Time	2248
I40	01 Nov 2022	Low Tide (ft)	-0.1
I40	01 Nov 2022	Low Tide Time	624
I40	01 Nov 2022	Comments	none
I40	07 Nov 2022	Depth (m)	10
I40	07 Nov 2022	Arrive Time	1116
I40	07 Nov 2022	Depart Time	1120
I40	07 Nov 2022	Air Temp (C)	16.5
I40	07 Nov 2022	Weather	Partly Cloudy
I40	07 Nov 2022	Visibility (mi)	11
I40	07 Nov 2022	Wind Speed (kts)	6.4
I40	07 Nov 2022	Wind Dir	SW
I40	07 Nov 2022	Water Color	Blue
I40	07 Nov 2022	Wave Ht Low (ft)	4.3
I40	07 Nov 2022	Wave Period (sec)	14
I40	07 Nov 2022	Sea State	Light Chop
I40	07 Nov 2022	High Tide (ft)	6.09
I40	07 Nov 2022	High Tide Time	1542
I40	07 Nov 2022	Low Tide (ft)	-0.31
I40	07 Nov 2022	Low Tide Time	2230
I40	07 Nov 2022	Comments	none
I40	14 Nov 2022	Depth (m)	11
I40	14 Nov 2022	Arrive Time	1135
I40	14 Nov 2022	Depart Time	1142
I40	14 Nov 2022	Air Temp (C)	16.3
I40	14 Nov 2022	Weather	Clear
I40	14 Nov 2022	Visibility (mi)	10
I40	14 Nov 2022	Wind Speed (kts)	13.6
I40	14 Nov 2022	Wind Dir	NW
I40	14 Nov 2022	Water Color	Greenish-Brown
I40	14 Nov 2022	Wave Ht Low (ft)	4
I40	14 Nov 2022	Wave Period (sec)	20
I40	14 Nov 2022	Sea State	Light Chop
I40	14 Nov 2022	High Tide (ft)	4.49
I40	14 Nov 2022	High Tide Time	1924
I40	14 Nov 2022	Low Tide (ft)	0.68

<b>Station</b>	<b>Date</b>	<b>Parameter</b>	<b>Value</b>
I40	14 Nov 2022	Low Tide Time	406
I40	14 Nov 2022	Comments	none
I40	21 Nov 2022	Depth (m)	10
I40	21 Nov 2022	Arrive Time	1041
I40	21 Nov 2022	Depart Time	1045
I40	21 Nov 2022	Air Temp (C)	17.5
I40	21 Nov 2022	Weather	Partly Cloudy
I40	21 Nov 2022	Visibility (mi)	8
I40	21 Nov 2022	Wind Speed (kts)	11.5
I40	21 Nov 2022	Wind Dir	NW
I40	21 Nov 2022	Water Color	Green
I40	21 Nov 2022	Wave Ht Low (ft)	3
I40	21 Nov 2022	Wave Period (sec)	18
I40	21 Nov 2022	Sea State	Calm
I40	21 Nov 2022	High Tide (ft)	5.74
I40	21 Nov 2022	High Tide Time	1442
I40	21 Nov 2022	Low Tide (ft)	0.01
I40	21 Nov 2022	Low Tide Time	2130
I40	21 Nov 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	01 Nov 2022	1	18.12	76.38	8.9	33.46	8.2	24.1	5.06
I19	01 Nov 2022	2	18.12	69.46	8.9	33.46	8.2	24.1	4.91
I19	01 Nov 2022	3	18.12	70.96	8.8	33.46	8.2	24.1	5.26
I19	01 Nov 2022	4	18.10	76.41	8.7	33.46	8.2	24.1	5.98
I19	01 Nov 2022	5	18.08	76.05	8.6	33.46	8.2	24.1	7.39
I19	01 Nov 2022	6	18.05	75.15	8.5	33.46	8.2	24.1	7.93
I19	01 Nov 2022	7	18.00	75.34	8.4	33.46	8.2	24.1	7.97
I19	01 Nov 2022	8	17.97	75.77	8.4	33.45	8.2	24.1	7.49
I19	01 Nov 2022	9	17.95	75.91	8.3	33.45	8.2	24.1	6.75
I19	01 Nov 2022	10	17.93	72.37	8.4	33.45	8.2	24.1	6.26
I19	07 Nov 2022	1	16.59	83.43	8.0	33.48	8.2	24.4	1.54
I19	07 Nov 2022	2	16.58	83.45	8.0	33.48	8.2	24.4	1.55
I19	07 Nov 2022	3	16.57	83.24	8.0	33.48	8.2	24.5	1.65
I19	07 Nov 2022	4	16.55	83.17	7.9	33.48	8.2	24.5	1.87
I19	07 Nov 2022	5	16.49	82.51	8.0	33.48	8.2	24.5	2.33
I19	07 Nov 2022	6	16.46	81.08	8.0	33.48	8.2	24.5	3.15
I19	07 Nov 2022	7	16.47	80.19	8.0	33.48	8.2	24.5	3.87
I19	07 Nov 2022	8	16.45	79.40	8.0	33.48	8.2	24.5	4.38
I19	07 Nov 2022	9	16.38	76.68	8.0	33.47	8.2	24.5	5.15
I19	07 Nov 2022	10	16.29	74.66	7.9	33.46	8.1	24.5	4.61
I19	14 Nov 2022	1	15.89	35.63	7.3	33.35	8.1	24.5	1.13
I19	14 Nov 2022	2	15.64	35.55	6.8	33.37	8.1	24.6	1.21
I19	14 Nov 2022	3	15.45	39.80	6.5	33.39	8.1	24.6	1.39
I19	14 Nov 2022	4	15.42	54.80	6.3	33.39	8.0	24.6	1.53
I19	14 Nov 2022	5	15.42	65.45	6.1	33.39	8.0	24.6	1.75
I19	14 Nov 2022	6	15.42	46.98	6.0	33.38	8.0	24.6	2.04
I19	14 Nov 2022	7	15.39	19.20	6.0	33.39	8.0	24.6	2.13
I19	14 Nov 2022	8	15.37	15.46	6.0	33.39	8.0	24.6	2.12
I19	14 Nov 2022	9	15.36	23.29	6.0	33.39	8.0	24.6	1.95
I19	14 Nov 2022	10	15.34	16.56	6.0	33.39	8.0	24.7	2.05
I19	21 Nov 2022	1	14.80	65.67	8.3	33.43	8.1	24.8	3.13
I19	21 Nov 2022	2	14.76	65.53	8.3	33.43	8.1	24.8	3.60
I19	21 Nov 2022	3	14.71	64.63	8.2	33.43	8.1	24.8	5.59
I19	21 Nov 2022	4	14.66	63.43	8.2	33.42	8.1	24.8	7.67
I19	21 Nov 2022	5	14.64	62.81	8.2	33.43	8.1	24.8	9.04
I19	21 Nov 2022	6	14.62	63.04	8.2	33.43	8.1	24.8	8.85
I19	21 Nov 2022	7	14.58	63.58	8.2	33.43	8.1	24.9	8.25
I19	21 Nov 2022	8	14.57	63.86	8.1	33.43	8.1	24.9	7.73
I19	21 Nov 2022	9	14.55	64.05	8.2	33.43	8.1	24.9	7.65
I19	21 Nov 2022	10	14.46	63.93	8.1	33.43	8.1	24.9	7.18
I24	01 Nov 2022	1	18.12	77.14	8.4	33.45	8.2	24.1	1.81
I24	01 Nov 2022	2	18.13	77.15	8.4	33.45	8.2	24.1	1.89
I24	01 Nov 2022	3	18.06	76.84	8.2	33.45	8.2	24.1	1.96
I24	01 Nov 2022	4	17.89	75.68	8.0	33.44	8.2	24.1	2.12
I24	01 Nov 2022	5	17.88	74.16	7.9	33.44	8.2	24.1	2.48
I24	01 Nov 2022	6	17.86	74.19	7.6	33.43	8.2	24.1	2.75
I24	01 Nov 2022	7	17.18	72.65	7.1	33.43	8.1	24.3	2.82
I24	01 Nov 2022	8	16.77	68.14	6.8	33.42	8.1	24.4	2.72
I24	01 Nov 2022	9	16.48	66.42	6.5	33.41	8.1	24.4	2.44
I24	01 Nov 2022	10	16.26	60.63	6.5	33.41	8.1	24.5	2.27
I24	07 Nov 2022	1	16.84	83.10	8.0	33.50	8.2	24.4	1.47

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I24	07 Nov 2022	2	16.77	83.07	8.0	33.50	8.2	24.4	1.52
I24	07 Nov 2022	3	16.72	81.01	8.0	33.49	8.2	24.4	1.78
I24	07 Nov 2022	4	16.48	78.48	8.0	33.48	8.2	24.5	2.29
I24	07 Nov 2022	5	16.40	76.93	8.1	33.47	8.2	24.5	3.23
I24	07 Nov 2022	6	16.36	75.55	8.0	33.46	8.2	24.5	4.15
I24	07 Nov 2022	7	16.16	74.69	7.6	33.45	8.2	24.5	4.85
I24	07 Nov 2022	8	15.79	73.61	7.3	33.44	8.1	24.6	5.11
I24	07 Nov 2022	9	15.44	73.26	6.9	33.43	8.1	24.7	4.22
I24	07 Nov 2022	10	15.12	71.66	6.5	33.41	8.0	24.7	2.92
I24	14 Nov 2022	1	16.32	65.99	7.2	33.35	8.1	24.4	1.07
I24	14 Nov 2022	2	16.26	67.31	7.1	33.35	8.1	24.4	1.12
I24	14 Nov 2022	3	16.06	68.16	7.2	33.35	8.1	24.5	1.37
I24	14 Nov 2022	4	15.97	67.92	7.1	33.35	8.1	24.5	1.96
I24	14 Nov 2022	5	15.91	68.33	7.0	33.35	8.1	24.5	2.29
I24	14 Nov 2022	6	15.88	71.10	6.8	33.35	8.1	24.5	2.09
I24	14 Nov 2022	7	15.85	73.05	6.6	33.35	8.1	24.5	1.94
I24	14 Nov 2022	8	15.70	69.44	6.2	33.37	8.1	24.6	1.81
I24	14 Nov 2022	9	15.47	62.22	5.8	33.39	8.0	24.6	1.71
I24	14 Nov 2022	10	15.41	53.02	5.6	33.38	8.0	24.6	1.57
I24	14 Nov 2022	11	15.39	45.67	5.5	33.38	8.0	24.6	1.46
I24	21 Nov 2022	1	14.86	67.93	7.4	33.42	8.0	24.8	1.92
I24	21 Nov 2022	2	14.82	67.45	7.4	33.42	8.0	24.8	2.06
I24	21 Nov 2022	3	14.78	67.45	7.4	33.42	8.1	24.8	2.56
I24	21 Nov 2022	4	14.69	66.53	7.4	33.42	8.1	24.8	4.40
I24	21 Nov 2022	5	14.68	66.51	7.4	33.42	8.1	24.8	5.74
I24	21 Nov 2022	6	14.66	66.27	7.3	33.42	8.0	24.8	5.97
I24	21 Nov 2022	7	14.63	63.94	7.1	33.42	8.0	24.8	5.83
I24	21 Nov 2022	8	14.59	60.53	6.9	33.41	8.0	24.8	5.13
I24	21 Nov 2022	9	14.59	55.05	6.8	33.41	8.0	24.8	4.33
I24	21 Nov 2022	10	14.58	50.98	6.7	33.41	8.0	24.8	3.96
I25	01 Nov 2022	1	18.52	84.48	8.1	33.51	8.2	24.0	1.22
I25	01 Nov 2022	2	18.52	84.42	8.0	33.51	8.2	24.0	1.26
I25	01 Nov 2022	3	18.52	84.47	8.0	33.51	8.2	24.0	1.30
I25	01 Nov 2022	4	18.42	84.39	8.0	33.50	8.2	24.0	1.51
I25	01 Nov 2022	5	18.21	83.31	8.1	33.47	8.2	24.1	2.29
I25	01 Nov 2022	6	18.07	78.80	8.0	33.45	8.2	24.1	3.63
I25	01 Nov 2022	7	17.81	73.82	7.6	33.42	8.2	24.1	4.28
I25	01 Nov 2022	8	17.07	73.69	7.4	33.41	8.2	24.3	3.53
I25	01 Nov 2022	9	16.65	75.36	7.2	33.41	8.1	24.4	2.63
I25	07 Nov 2022	1	16.80	83.27	8.0	33.51	8.2	24.4	1.44
I25	07 Nov 2022	2	16.79	83.29	8.0	33.50	8.2	24.4	1.50
I25	07 Nov 2022	3	16.71	83.14	8.0	33.49	8.2	24.4	1.67
I25	07 Nov 2022	4	16.54	81.89	8.1	33.48	8.2	24.5	2.22
I25	07 Nov 2022	5	16.52	79.59	8.0	33.47	8.2	24.4	2.91
I25	07 Nov 2022	6	16.15	76.55	7.7	33.45	8.2	24.5	4.09
I25	07 Nov 2022	7	15.91	76.03	7.3	33.44	8.1	24.6	4.42
I25	07 Nov 2022	8	15.23	78.83	6.7	33.41	8.1	24.7	3.59
I25	14 Nov 2022	1	16.50	61.24	7.0	33.39	8.1	24.4	1.01
I25	14 Nov 2022	2	16.49	60.90	7.0	33.39	8.1	24.4	1.03
I25	14 Nov 2022	3	16.29	59.91	6.8	33.38	8.1	24.4	1.26
I25	14 Nov 2022	4	16.09	54.60	6.6	33.38	8.1	24.5	1.55
I25	14 Nov 2022	5	16.01	55.14	6.3	33.38	8.1	24.5	1.58
I25	14 Nov 2022	6	15.95	59.73	6.1	33.38	8.0	24.5	1.53
I25	14 Nov 2022	7	15.71	60.14	5.8	33.38	8.0	24.6	1.43
I25	14 Nov 2022	8	15.44	62.58	5.7	33.39	8.0	24.6	1.32
I25	14 Nov 2022	9	15.45	46.53	5.6	33.39	8.0	24.6	1.22

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I25	21 Nov 2022	1	15.21	67.15	7.3	33.46	8.1	24.7	1.89
I25	21 Nov 2022	2	15.13	66.74	7.3	33.46	8.0	24.8	2.02
I25	21 Nov 2022	3	15.04	64.55	7.2	33.45	8.0	24.8	2.67
I25	21 Nov 2022	4	14.86	62.94	7.2	33.44	8.0	24.8	3.76
I25	21 Nov 2022	5	14.65	60.24	7.1	33.42	8.0	24.8	4.75
I25	21 Nov 2022	6	14.62	59.96	7.0	33.42	8.0	24.8	4.79
I25	21 Nov 2022	7	14.62	61.83	6.9	33.42	8.0	24.8	4.58
I25	21 Nov 2022	8	14.62	61.53	6.9	33.42	8.0	24.8	4.10
I26	01 Nov 2022	1	18.43	73.60	8.1	33.48	8.2	24.0	2.10
I26	01 Nov 2022	2	18.42	74.97	8.6	33.50	8.2	24.0	3.10
I26	01 Nov 2022	3	18.35	74.14	8.7	33.51	8.2	24.0	5.00
I26	01 Nov 2022	4	18.24	76.66	8.8	33.52	8.2	24.1	5.26
I26	01 Nov 2022	5	17.63	83.74	8.6	33.51	8.2	24.2	6.50
I26	01 Nov 2022	6	17.38	85.02	8.4	33.50	8.2	24.3	5.89
I26	01 Nov 2022	7	17.09	84.96	8.1	33.48	8.2	24.3	4.46
I26	01 Nov 2022	8	16.95	83.85	7.7	33.45	8.2	24.3	3.05
I26	01 Nov 2022	9	16.74	79.80	7.3	33.47	8.1	24.4	2.62
I26	07 Nov 2022	1	16.82	73.93	7.9	33.51	8.2	24.4	1.33
I26	07 Nov 2022	2	16.80	82.55	7.9	33.51	8.2	24.4	1.38
I26	07 Nov 2022	3	16.77	83.41	7.8	33.49	8.2	24.4	1.53
I26	07 Nov 2022	4	16.46	82.38	7.9	33.47	8.2	24.5	1.88
I26	07 Nov 2022	5	16.38	79.61	8.0	33.47	8.2	24.5	2.74
I26	07 Nov 2022	6	16.31	77.88	7.8	33.46	8.2	24.5	3.56
I26	07 Nov 2022	7	15.95	78.47	7.5	33.44	8.1	24.6	3.84
I26	07 Nov 2022	8	15.59	81.40	7.1	33.43	8.1	24.6	3.09
I26	07 Nov 2022	9	14.61	80.90	6.8	33.42	8.1	24.8	2.35
I26	14 Nov 2022	1	16.61	70.31	7.6	33.48	8.1	24.4	1.77
I26	14 Nov 2022	2	16.56	70.19	7.6	33.48	8.1	24.4	1.87
I26	14 Nov 2022	3	16.53	69.73	7.6	33.47	8.1	24.5	2.28
I26	14 Nov 2022	4	16.39	70.20	7.6	33.47	8.1	24.5	2.74
I26	14 Nov 2022	5	16.31	70.80	7.5	33.47	8.1	24.5	3.37
I26	14 Nov 2022	6	16.25	73.11	7.2	33.46	8.1	24.5	3.60
I26	14 Nov 2022	7	15.92	75.10	6.7	33.44	8.1	24.6	3.29
I26	14 Nov 2022	8	15.49	77.21	6.3	33.41	8.1	24.6	2.68
I26	14 Nov 2022	9	15.44	73.71	6.2	33.40	8.1	24.6	1.96
I26	21 Nov 2022	1	15.42	76.71	7.5	33.47	8.1	24.7	1.87
I26	21 Nov 2022	2	15.35	76.56	7.5	33.47	8.1	24.7	2.01
I26	21 Nov 2022	3	15.24	75.90	7.5	33.47	8.1	24.7	2.58
I26	21 Nov 2022	4	15.19	75.07	7.2	33.46	8.1	24.7	3.32
I26	21 Nov 2022	5	15.01	73.88	6.9	33.45	8.1	24.8	3.95
I26	21 Nov 2022	6	14.85	73.87	6.6	33.43	8.0	24.8	3.72
I26	21 Nov 2022	7	14.82	74.92	6.5	33.43	8.0	24.8	3.36
I26	21 Nov 2022	8	14.82	75.39	6.5	33.43	8.0	24.8	3.11
I26	21 Nov 2022	9	14.81	75.60	6.5	33.43	8.0	24.8	2.90
I32	01 Nov 2022	1	18.23	80.22	8.2	33.46	8.2	24.0	1.61
I32	01 Nov 2022	2	18.22	80.07	8.2	33.46	8.2	24.0	1.64
I32	01 Nov 2022	3	18.22	80.16	8.2	33.46	8.2	24.0	1.61
I32	01 Nov 2022	4	18.22	80.48	8.2	33.46	8.2	24.0	1.64
I32	01 Nov 2022	5	18.16	80.53	8.1	33.46	8.2	24.1	1.75
I32	01 Nov 2022	6	18.12	80.07	8.2	33.46	8.2	24.1	2.06
I32	01 Nov 2022	7	18.11	79.82	8.2	33.46	8.2	24.1	2.52
I32	01 Nov 2022	8	18.06	79.64	8.0	33.46	8.2	24.1	2.72
I32	01 Nov 2022	9	18.02	78.84	7.9	33.45	8.2	24.1	2.66
I32	01 Nov 2022	10	17.85	78.04	7.9	33.46	8.2	24.1	3.00

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I32	07 Nov 2022	1	16.53	78.74	7.6	33.46	8.1	24.4	1.30
I32	07 Nov 2022	2	16.48	78.40	7.6	33.46	8.1	24.5	1.41
I32	07 Nov 2022	3	16.46	78.54	7.6	33.46	8.1	24.5	1.54
I32	07 Nov 2022	4	16.43	78.46	7.6	33.46	8.1	24.5	1.73
I32	07 Nov 2022	5	16.42	78.47	7.6	33.46	8.1	24.5	1.93
I32	07 Nov 2022	6	16.40	78.43	7.6	33.46	8.1	24.5	2.22
I32	07 Nov 2022	7	16.40	78.30	7.6	33.46	8.1	24.5	2.49
I32	07 Nov 2022	8	16.37	76.34	7.6	33.46	8.1	24.5	2.73
I32	07 Nov 2022	9	16.36	70.36	7.7	33.46	8.1	24.5	2.87
I32	14 Nov 2022	1	16.68	70.89	7.8	33.51	8.2	24.4	2.53
I32	14 Nov 2022	2	16.68	70.87	7.7	33.51	8.2	24.4	2.72
I32	14 Nov 2022	3	16.58	69.43	7.6	33.51	8.2	24.5	3.32
I32	14 Nov 2022	4	16.43	67.85	7.5	33.51	8.1	24.5	4.53
I32	14 Nov 2022	5	16.37	64.85	7.3	33.50	8.1	24.5	5.25
I32	14 Nov 2022	6	16.34	63.87	7.3	33.50	8.1	24.5	5.21
I32	14 Nov 2022	7	16.30	64.89	7.2	33.50	8.1	24.5	4.48
I32	14 Nov 2022	8	16.25	66.46	7.1	33.50	8.1	24.5	3.80
I32	14 Nov 2022	9	16.21	62.00	6.9	33.49	8.1	24.5	3.34
I32	14 Nov 2022	10	16.06	56.45	6.6	33.47	8.1	24.6	2.97
I32	21 Nov 2022	1	15.48	69.20	7.4	33.49	8.0	24.7	2.00
I32	21 Nov 2022	2	15.39	68.71	7.3	33.48	8.0	24.7	2.14
I32	21 Nov 2022	3	15.26	67.78	7.2	33.47	8.0	24.7	3.62
I32	21 Nov 2022	4	15.06	66.05	6.9	33.45	8.0	24.8	5.33
I32	21 Nov 2022	5	14.99	67.79	6.7	33.44	8.0	24.8	5.35
I32	21 Nov 2022	6	14.93	69.20	6.5	33.44	8.0	24.8	5.02
I32	21 Nov 2022	7	14.86	70.20	6.2	33.42	8.0	24.8	4.59
I32	21 Nov 2022	8	14.80	69.07	6.0	33.42	8.0	24.8	3.92
I32	21 Nov 2022	9	14.76	65.50	5.8	33.41	8.0	24.8	3.48
I39	01 Nov 2022	1	18.54	86.03	7.9	33.53	8.2	24.0	1.57
I39	01 Nov 2022	2	18.51	85.79	7.9	33.53	8.2	24.0	1.90
I39	01 Nov 2022	3	18.44	85.89	7.8	33.52	8.2	24.0	2.37
I39	01 Nov 2022	4	17.94	85.11	8.0	33.48	8.2	24.1	3.76
I39	01 Nov 2022	5	17.67	82.70	8.1	33.47	8.2	24.2	4.64
I39	01 Nov 2022	6	17.55	83.27	8.0	33.45	8.2	24.2	4.36
I39	01 Nov 2022	7	17.39	85.34	8.0	33.45	8.2	24.2	3.41
I39	01 Nov 2022	8	17.36	85.75	8.0	33.44	8.2	24.2	3.19
I39	01 Nov 2022	9	17.19	86.24	8.0	33.43	8.2	24.3	2.92
I39	01 Nov 2022	10	17.04	86.30	7.9	33.43	8.2	24.3	2.96
I39	01 Nov 2022	11	16.83	86.60	7.6	33.41	8.2	24.3	2.80
I39	01 Nov 2022	12	16.24	87.27	7.3	33.40	8.1	24.5	2.15
I39	01 Nov 2022	13	16.11	87.25	7.2	33.39	8.1	24.5	1.83
I39	01 Nov 2022	14	16.11	87.75	7.3	33.39	8.1	24.5	1.74
I39	01 Nov 2022	15	15.96	88.37	7.3	33.39	8.1	24.5	1.71
I39	01 Nov 2022	16	15.92	88.75	7.2	33.39	8.1	24.5	1.71
I39	01 Nov 2022	17	15.85	88.54	7.1	33.38	8.1	24.5	1.68
I39	01 Nov 2022	18	15.33	87.57	6.9	33.38	8.1	24.7	1.33
I39	07 Nov 2022	1	16.90	85.69	7.7	33.53	8.2	24.4	1.13
I39	07 Nov 2022	2	16.79	85.42	7.5	33.52	8.2	24.4	1.14
I39	07 Nov 2022	3	16.18	85.86	7.4	33.49	8.1	24.6	1.16
I39	07 Nov 2022	4	15.85	87.05	7.3	33.48	8.1	24.6	1.15
I39	07 Nov 2022	5	15.63	87.77	7.2	33.45	8.1	24.6	1.14
I39	07 Nov 2022	6	15.39	88.12	7.1	33.45	8.1	24.7	1.16
I39	07 Nov 2022	7	15.36	88.09	7.1	33.45	8.1	24.7	1.19
I39	07 Nov 2022	8	15.27	88.19	7.1	33.44	8.1	24.7	1.20
I39	07 Nov 2022	9	15.21	88.26	7.0	33.44	8.1	24.7	1.28
I39	07 Nov 2022	10	15.18	88.40	7.0	33.44	8.1	24.7	1.40
I39	07 Nov 2022	11	15.11	88.45	7.0	33.44	8.1	24.7	1.47

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I39	07 Nov 2022	12	15.02	88.58	7.0	33.43	8.1	24.8	1.54
I39	07 Nov 2022	13	14.91	88.70	6.9	33.43	8.1	24.8	1.51
I39	07 Nov 2022	14	14.88	88.68	6.8	33.43	8.1	24.8	1.60
I39	07 Nov 2022	15	14.86	88.66	6.8	33.43	8.1	24.8	1.56
I39	07 Nov 2022	16	14.83	88.60	6.8	33.43	8.1	24.8	1.55
I39	07 Nov 2022	17	14.47	88.36	6.6	33.40	8.1	24.9	1.48
I39	07 Nov 2022	18	14.11	86.99	6.6	33.42	8.0	24.9	1.38
I39	14 Nov 2022	1	16.13	75.60	7.5	33.41	8.1	24.5	2.46
I39	14 Nov 2022	2	16.15	75.52	7.5	33.41	8.1	24.5	2.24
I39	14 Nov 2022	3	16.11	75.44	7.5	33.41	8.1	24.5	2.50
I39	14 Nov 2022	4	16.11	75.22	7.5	33.41	8.1	24.5	3.06
I39	14 Nov 2022	5	16.02	75.26	7.4	33.41	8.1	24.5	3.70
I39	14 Nov 2022	6	15.98	76.49	7.3	33.40	8.1	24.5	3.76
I39	14 Nov 2022	7	15.92	78.60	7.2	33.40	8.1	24.5	3.25
I39	14 Nov 2022	8	15.89	79.93	7.2	33.40	8.1	24.5	3.14
I39	14 Nov 2022	9	15.85	81.15	7.2	33.40	8.1	24.5	2.78
I39	14 Nov 2022	10	15.83	82.63	7.2	33.39	8.1	24.6	2.46
I39	14 Nov 2022	11	15.82	83.61	7.2	33.39	8.1	24.6	2.32
I39	14 Nov 2022	12	15.81	83.96	7.1	33.39	8.1	24.6	2.26
I39	14 Nov 2022	13	15.77	84.11	7.1	33.39	8.1	24.6	2.15
I39	14 Nov 2022	14	15.72	84.60	7.0	33.39	8.1	24.6	2.02
I39	14 Nov 2022	15	15.67	85.34	6.9	33.39	8.1	24.6	1.90
I39	14 Nov 2022	16	15.54	86.55	6.6	33.39	8.1	24.6	1.85
I39	14 Nov 2022	17	14.90	88.06	6.0	33.40	8.0	24.8	1.45
I39	14 Nov 2022	18	14.72	87.80	5.7	33.40	8.0	24.8	1.18
I39	21 Nov 2022	1	15.39	78.42	8.2	33.47	8.1	24.7	2.36
I39	21 Nov 2022	2	15.37	78.27	8.2	33.47	8.1	24.7	2.48
I39	21 Nov 2022	3	15.33	78.06	8.2	33.47	8.1	24.7	3.00
I39	21 Nov 2022	4	15.30	76.85	8.2	33.47	8.1	24.7	4.21
I39	21 Nov 2022	5	15.27	76.32	8.2	33.47	8.1	24.7	5.11
I39	21 Nov 2022	6	15.26	76.21	8.1	33.47	8.1	24.7	6.06
I39	21 Nov 2022	7	15.25	76.30	8.1	33.47	8.1	24.7	6.41
I39	21 Nov 2022	8	15.23	76.57	8.1	33.47	8.1	24.7	6.40
I39	21 Nov 2022	9	15.21	76.95	8.0	33.46	8.1	24.7	6.27
I39	21 Nov 2022	10	15.18	77.87	8.0	33.46	8.1	24.7	6.21
I39	21 Nov 2022	11	15.16	78.31	7.9	33.46	8.1	24.7	5.87
I39	21 Nov 2022	12	15.11	78.71	7.9	33.45	8.1	24.8	5.49
I39	21 Nov 2022	13	15.03	80.03	7.8	33.45	8.1	24.8	4.93
I39	21 Nov 2022	14	14.86	81.52	7.6	33.44	8.1	24.8	4.40
I39	21 Nov 2022	15	14.60	83.89	7.2	33.42	8.1	24.8	3.56
I39	21 Nov 2022	16	14.57	83.66	7.0	33.41	8.0	24.8	2.88
I39	21 Nov 2022	17	14.57	82.49	6.8	33.41	8.0	24.8	2.61
I39	21 Nov 2022	18	14.55	80.97	6.6	33.41	8.0	24.8	2.47
I40	01 Nov 2022	1	18.22	72.11	9.1	33.46	8.2	24.0	6.17
I40	01 Nov 2022	2	18.21	71.82	9.0	33.46	8.2	24.0	6.73
I40	01 Nov 2022	3	18.11	70.97	8.8	33.46	8.2	24.1	7.91
I40	01 Nov 2022	4	18.02	74.30	8.6	33.46	8.2	24.1	6.20
I40	01 Nov 2022	5	18.00	79.82	8.5	33.46	8.2	24.1	5.00
I40	01 Nov 2022	6	18.00	79.90	8.5	33.45	8.2	24.1	4.39
I40	01 Nov 2022	7	17.98	77.18	8.2	33.45	8.2	24.1	4.22
I40	01 Nov 2022	8	17.97	66.90	8.1	33.45	8.2	24.1	4.37
I40	01 Nov 2022	9	17.97	61.04	8.0	33.45	8.2	24.1	4.72
I40	01 Nov 2022	10	17.95	56.97	8.0	33.45	8.2	24.1	4.69
I40	07 Nov 2022	1	16.59	81.25	8.2	33.48	8.2	24.4	1.64
I40	07 Nov 2022	2	16.58	81.38	8.1	33.48	8.2	24.4	1.61
I40	07 Nov 2022	3	16.58	81.60	8.2	33.48	8.2	24.4	1.65
I40	07 Nov 2022	4	16.57	81.76	8.2	33.48	8.2	24.4	1.88

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I40	07 Nov 2022	5	16.55	81.44	8.2	33.48	8.2	24.5	2.38
I40	07 Nov 2022	6	16.53	81.24	8.1	33.48	8.2	24.5	2.94
I40	07 Nov 2022	7	16.48	81.16	8.0	33.48	8.2	24.5	3.35
I40	07 Nov 2022	8	16.44	80.40	7.9	33.48	8.2	24.5	3.65
I40	07 Nov 2022	9	16.24	76.75	7.7	33.46	8.1	24.5	3.73
I40	07 Nov 2022	10	16.21	62.92	7.6	33.45	8.1	24.5	3.33
I40	14 Nov 2022	1	16.38	49.79	7.1	33.39	8.1	24.4	1.02
I40	14 Nov 2022	2	16.26	49.41	7.1	33.39	8.1	24.4	1.25
I40	14 Nov 2022	3	16.13	49.30	7.2	33.41	8.1	24.5	2.41
I40	14 Nov 2022	4	16.02	45.44	7.3	33.40	8.1	24.5	3.66
I40	14 Nov 2022	5	15.98	46.71	7.3	33.41	8.1	24.5	3.49
I40	14 Nov 2022	6	15.96	45.75	7.2	33.43	8.1	24.5	3.02
I40	14 Nov 2022	7	15.81	41.59	6.8	33.42	8.1	24.6	2.36
I40	14 Nov 2022	8	15.49	37.86	6.2	33.39	8.0	24.6	1.79
I40	14 Nov 2022	9	15.33	46.88	6.0	33.39	8.0	24.7	1.55
I40	14 Nov 2022	10	15.30	41.44	5.9	33.39	8.0	24.7	1.49
I40	21 Nov 2022	1	14.78	48.06	7.5	33.40	8.0	24.8	2.27
I40	21 Nov 2022	2	14.67	46.79	7.4	33.41	8.0	24.8	2.95
I40	21 Nov 2022	3	14.61	44.81	7.3	33.40	8.0	24.8	4.17
I40	21 Nov 2022	4	14.53	38.66	7.3	33.40	8.0	24.8	5.51
I40	21 Nov 2022	5	14.50	48.36	7.5	33.40	8.0	24.8	5.97
I40	21 Nov 2022	6	14.51	56.98	7.5	33.40	8.0	24.8	5.72
I40	21 Nov 2022	7	14.52	60.77	7.4	33.41	8.0	24.8	5.35
I40	21 Nov 2022	8	14.52	60.15	7.4	33.41	8.0	24.9	5.01
I40	21 Nov 2022	9	14.50	59.30	7.4	33.41	8.0	24.9	5.12
I40	21 Nov 2022	10	14.42	52.61	7.4	33.40	8.0	24.9	5.15

NA = not available

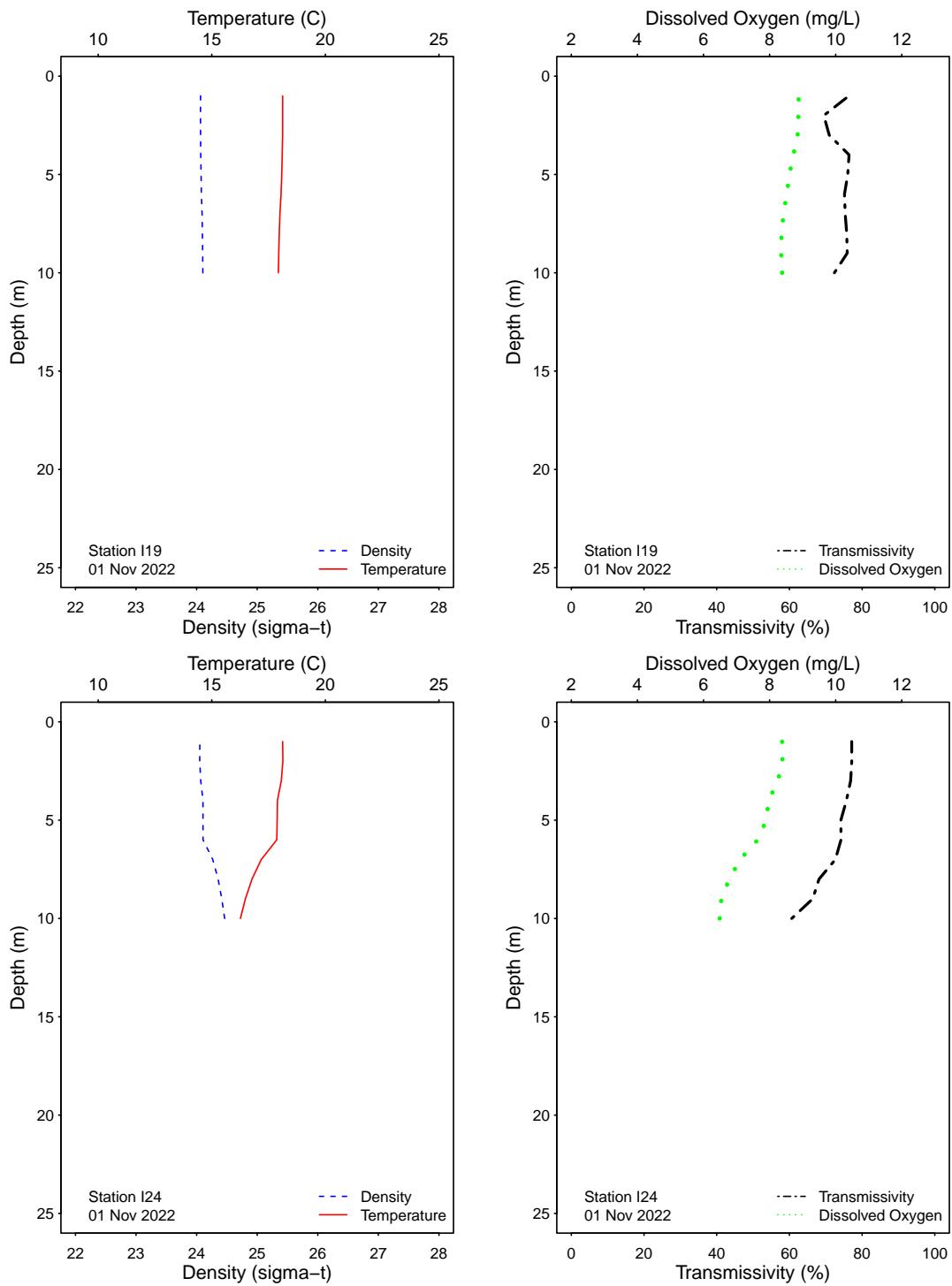


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

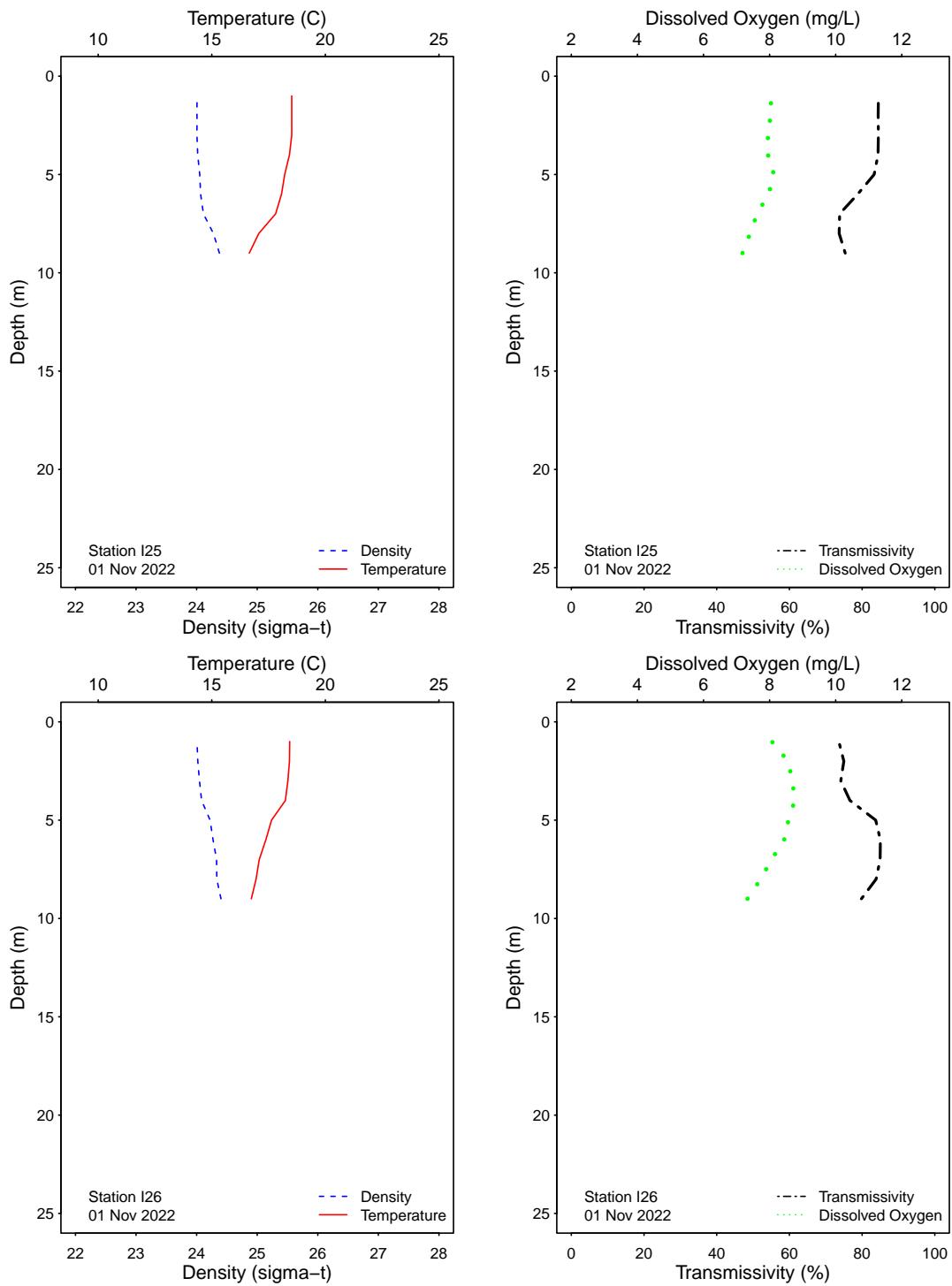


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

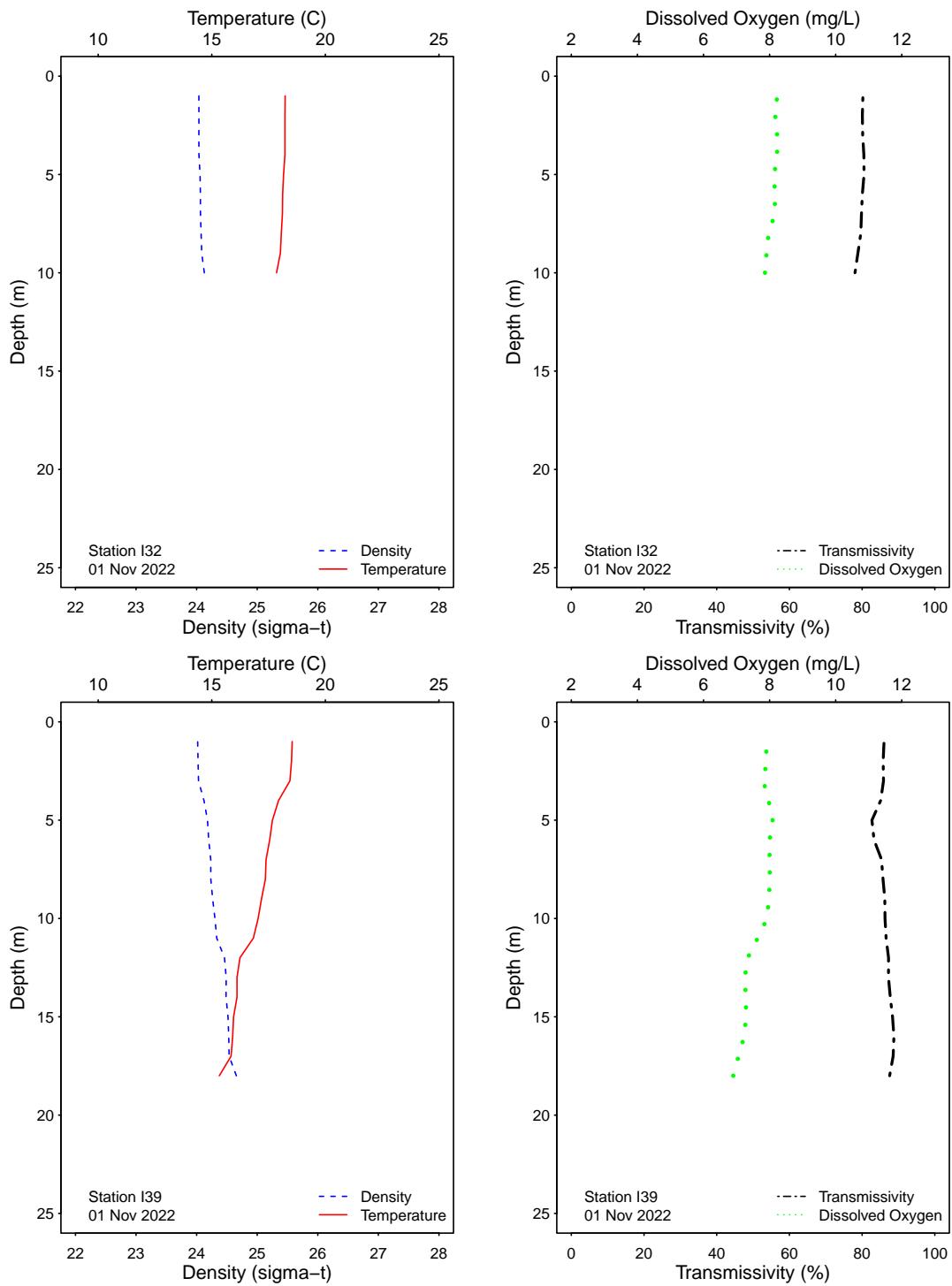


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

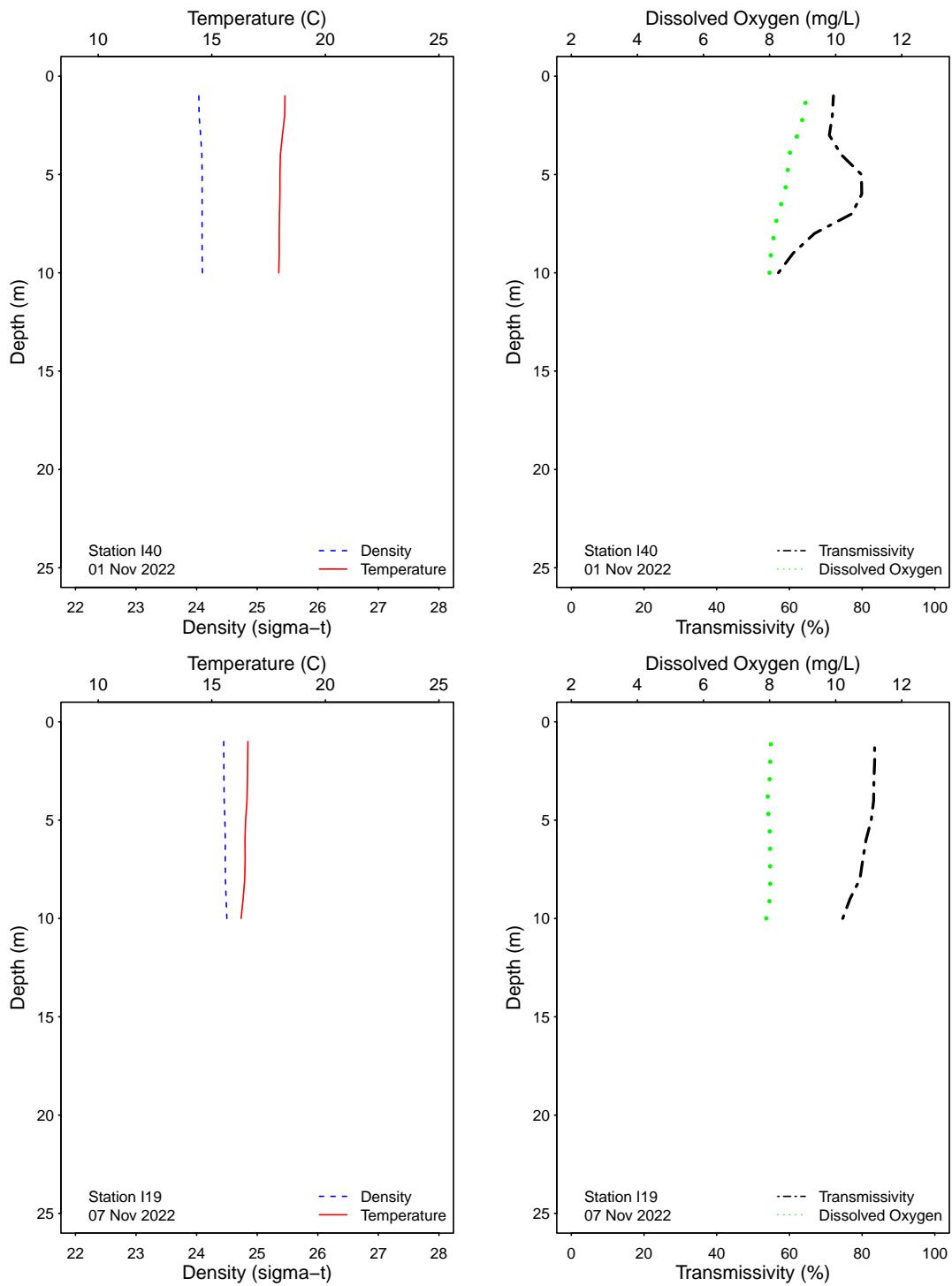


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

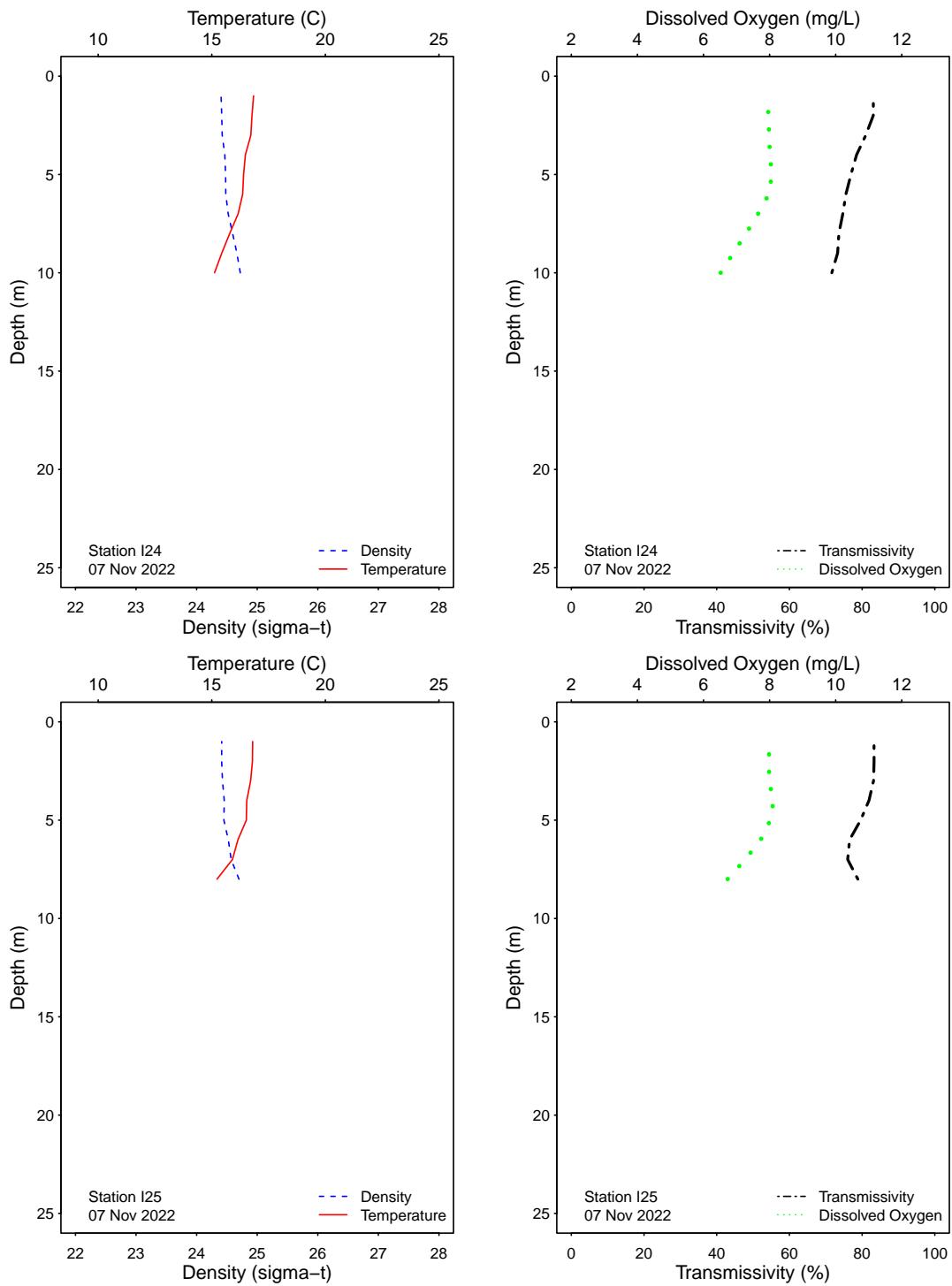


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

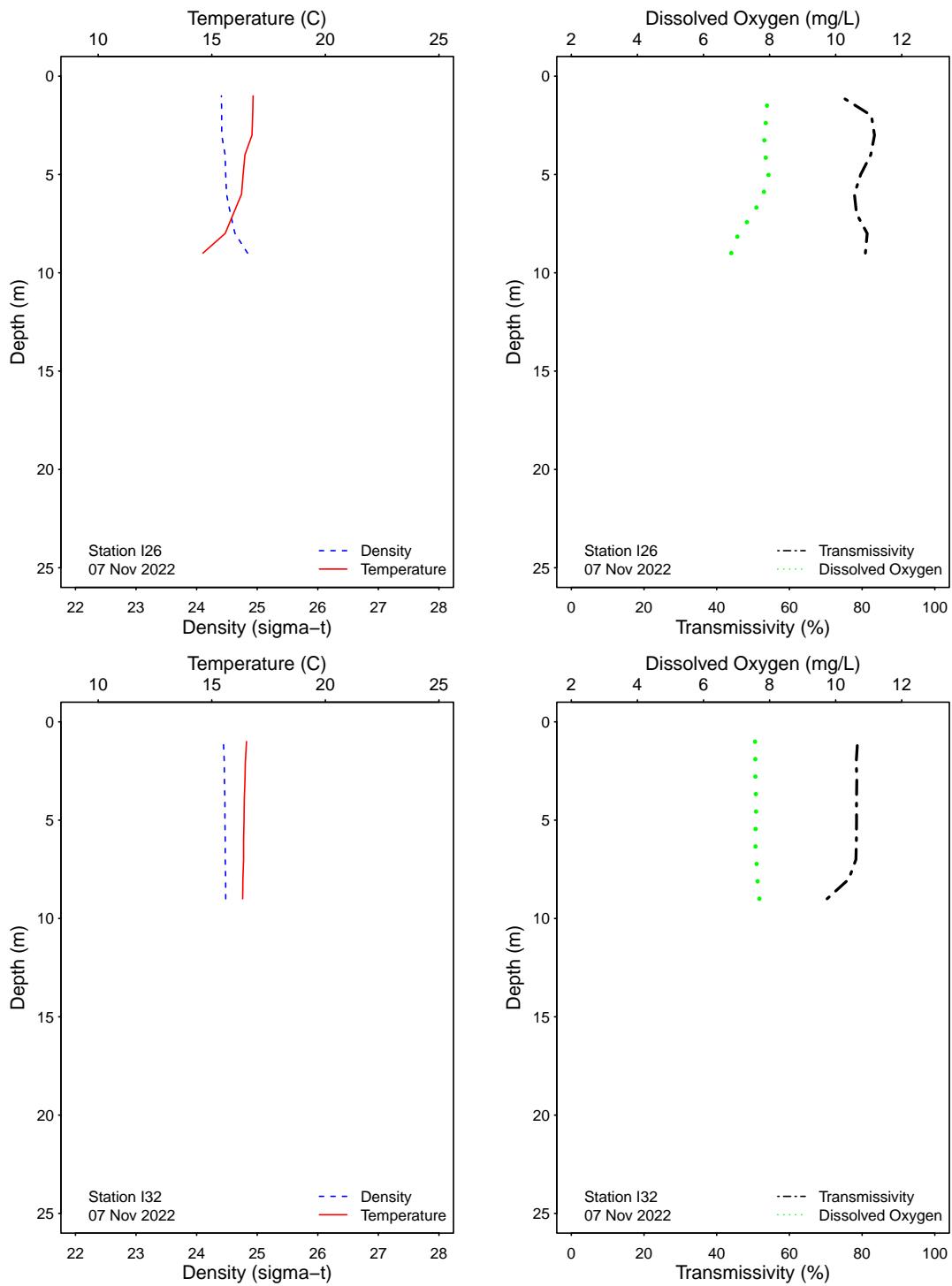


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

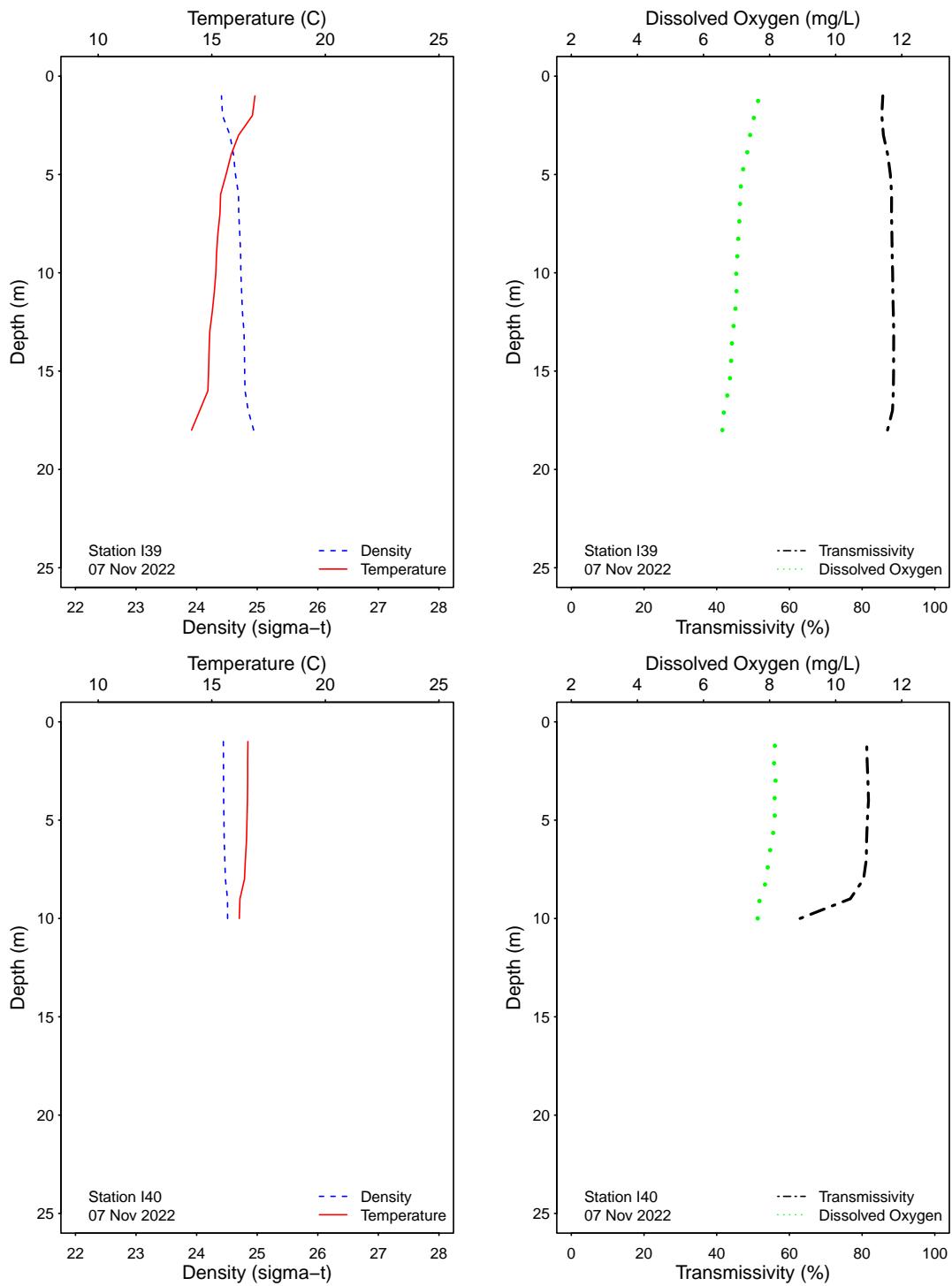


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

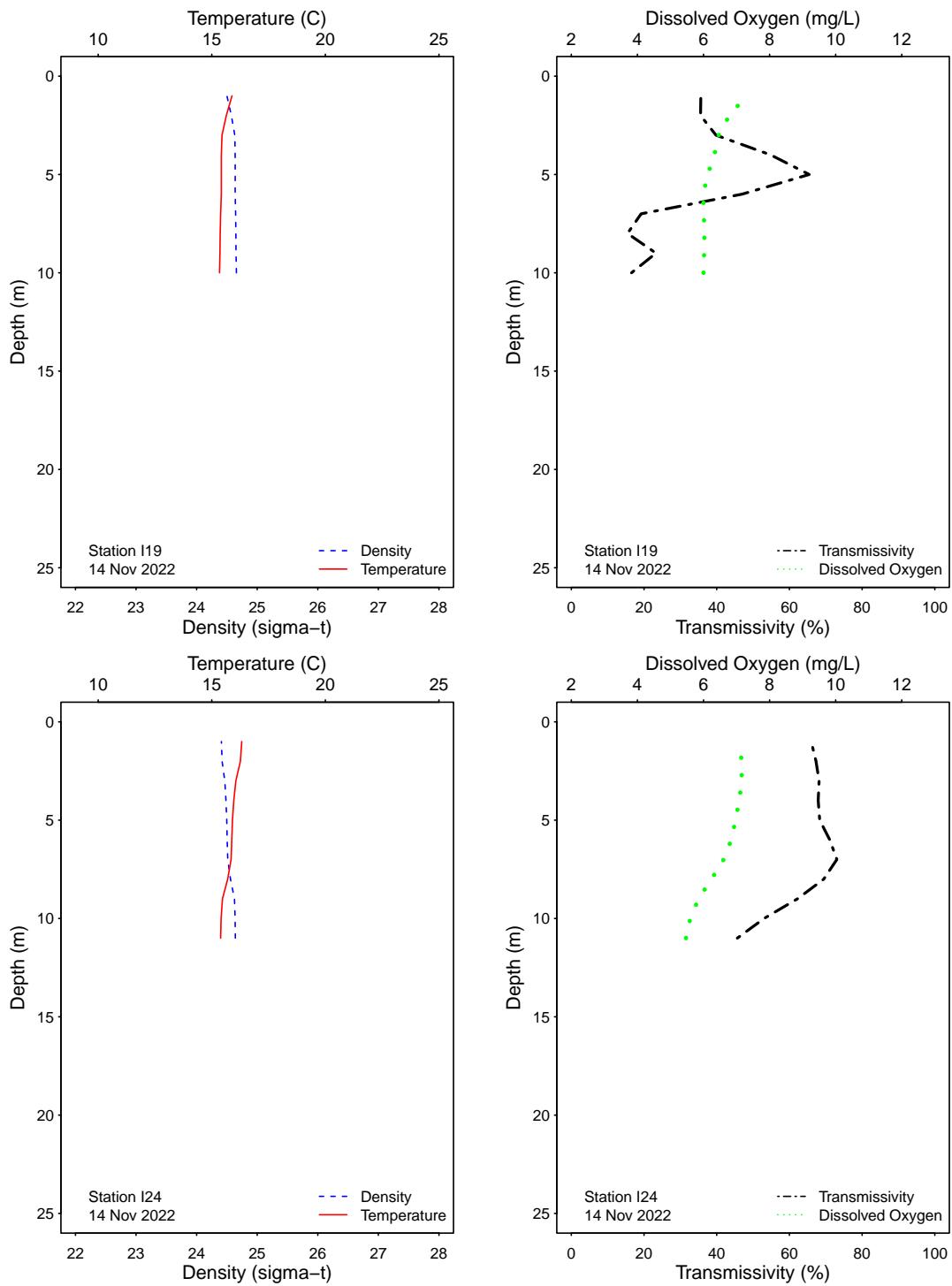


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

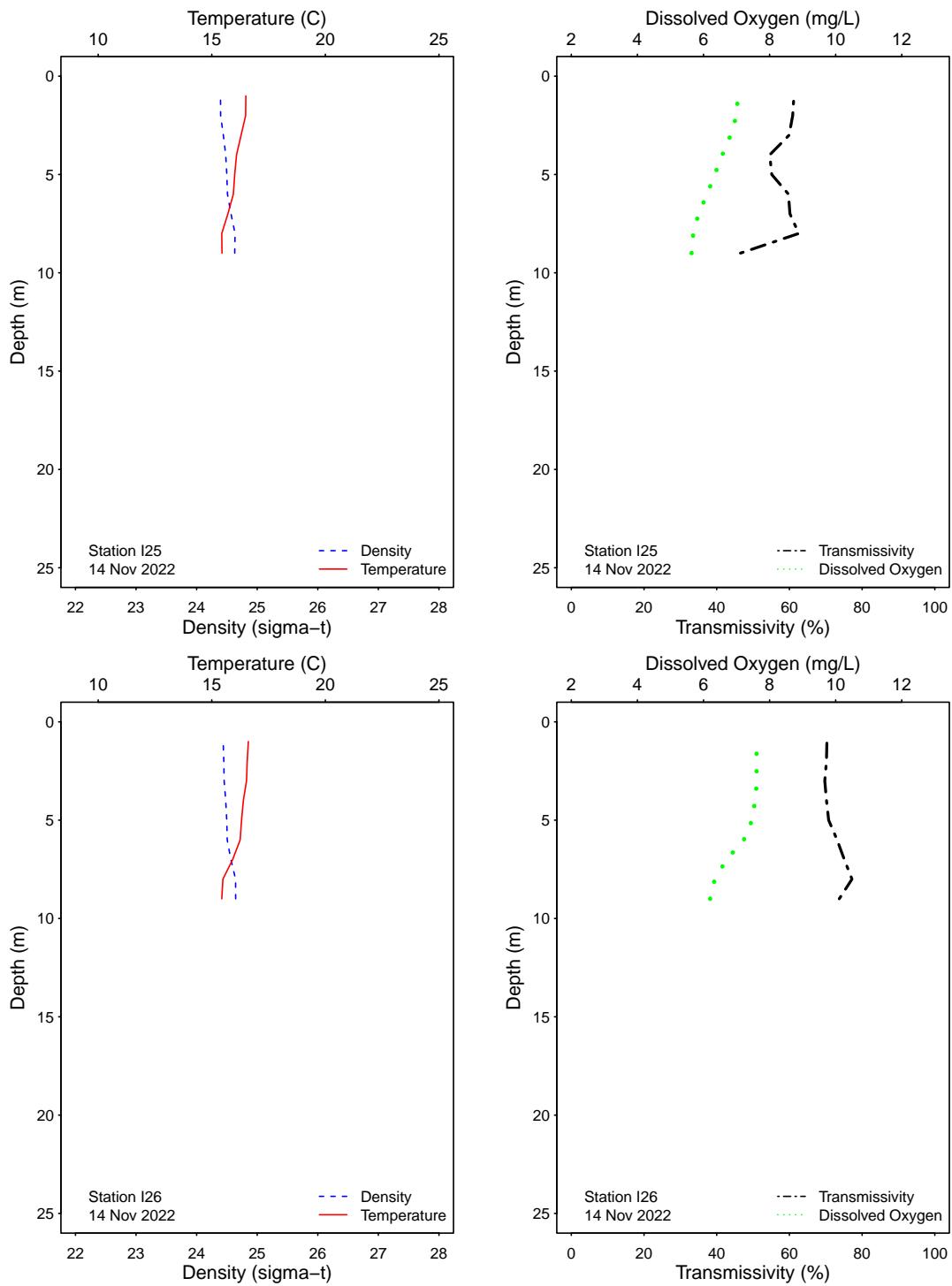


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

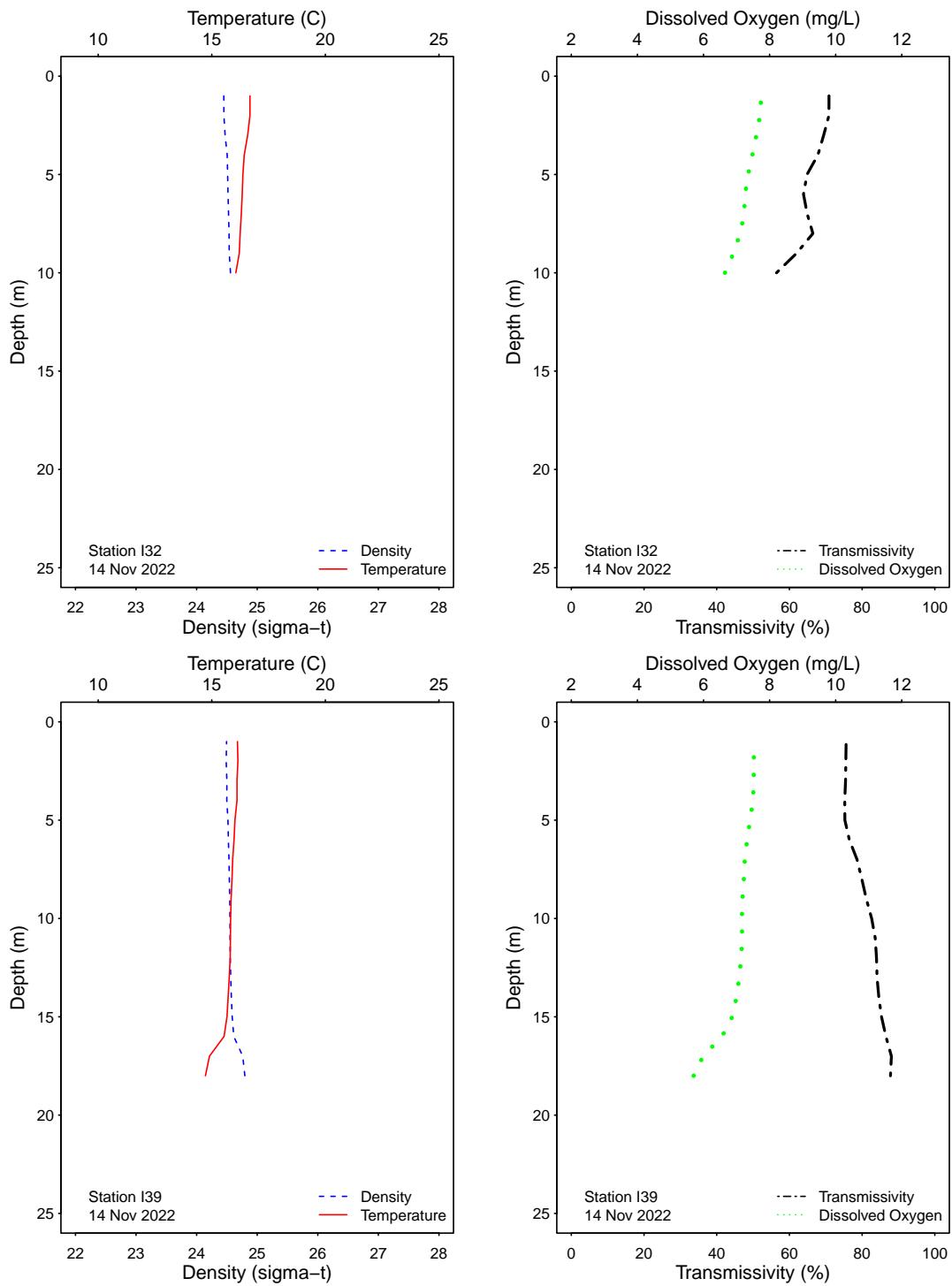


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

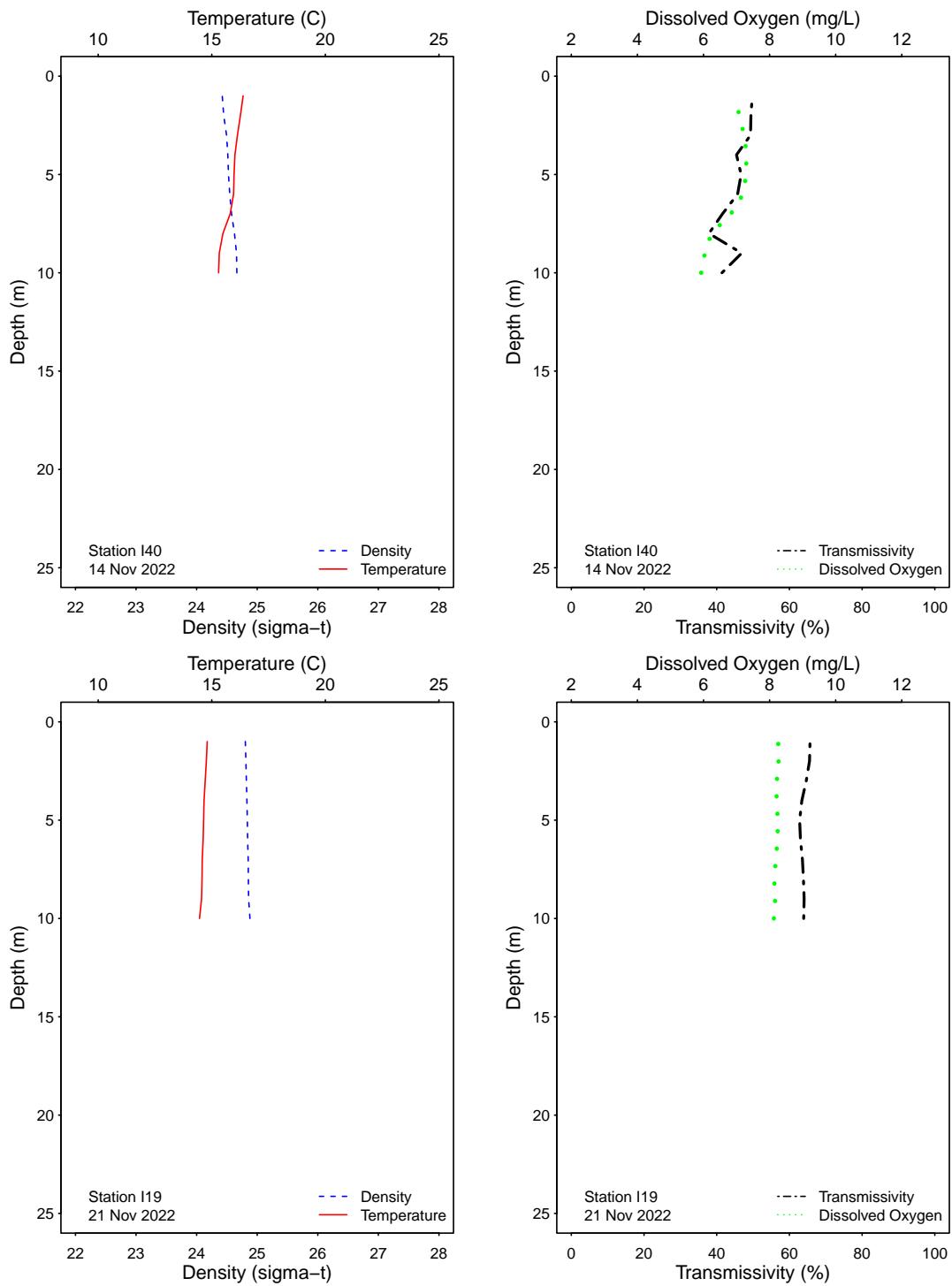


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

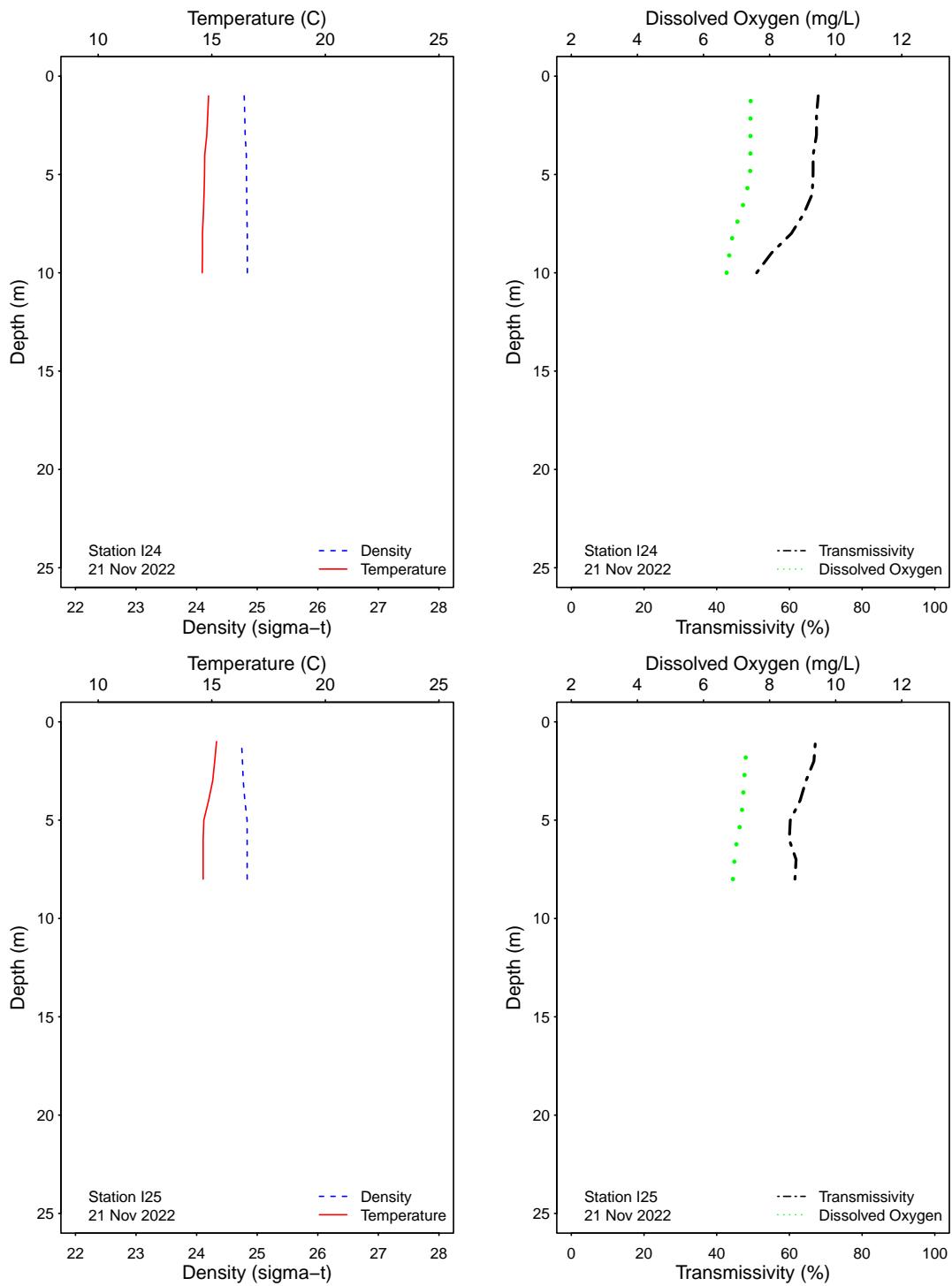


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

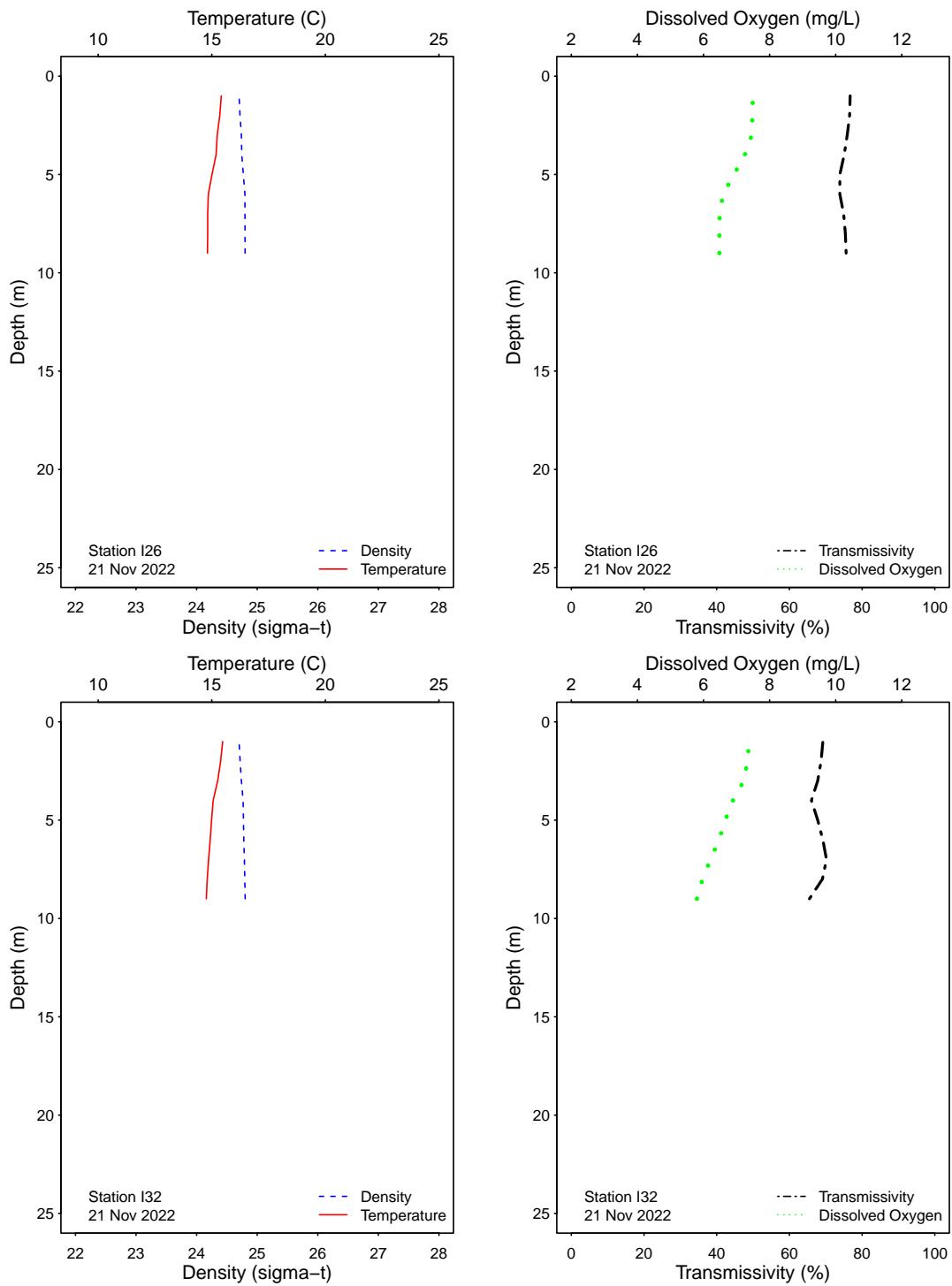


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

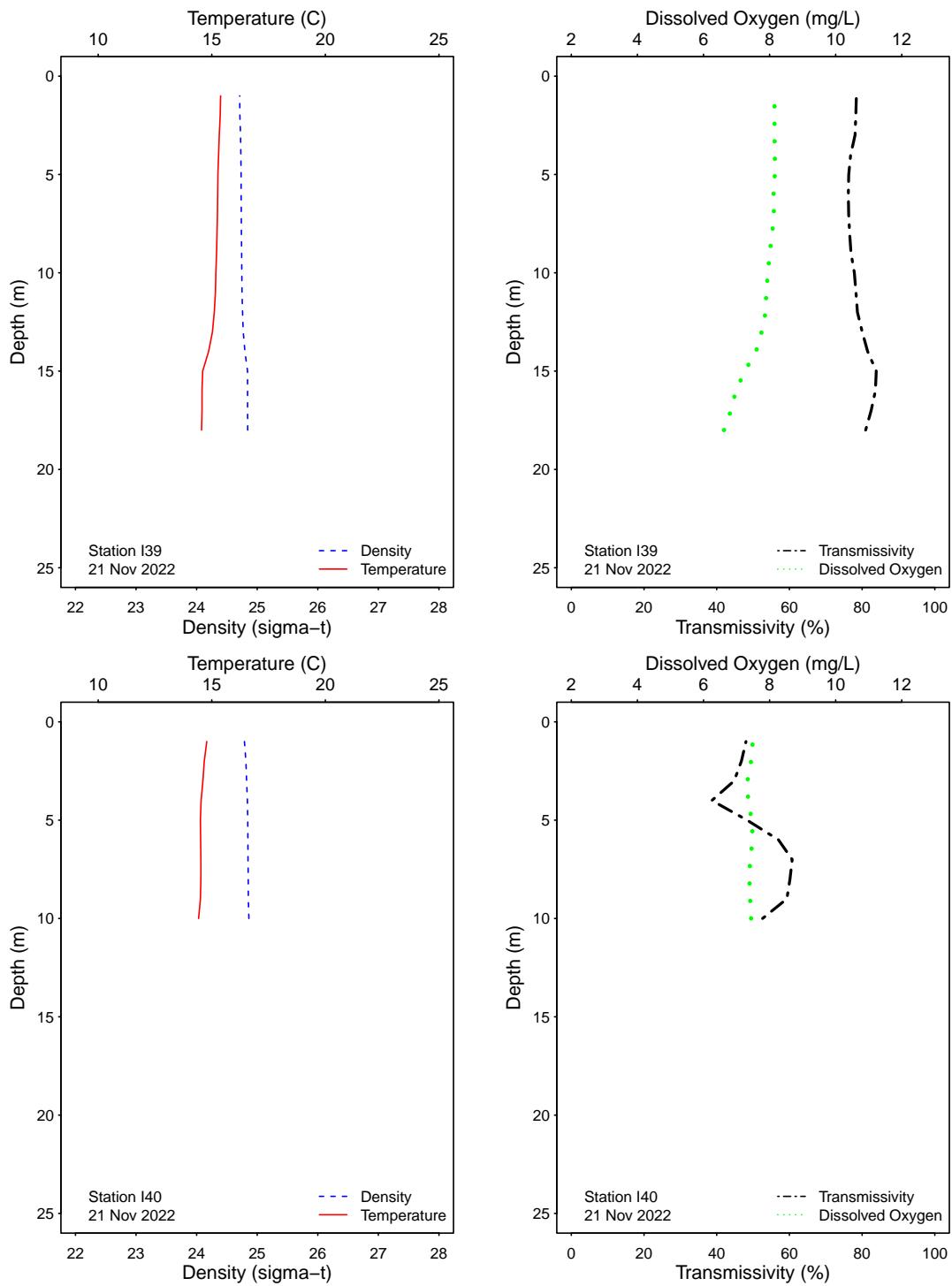


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.



# 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
29 Nov 2022	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC
30 Nov 2022	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns

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
November	IC	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	112	114	116	118	120	123	133	136	137	138
November	2m IC	18m IC	27m IC	2m IC	18m E	27m IC	2m IC	18m IC	2m IC	11m IC
	IC	IC	IC	IC	IC	IC	IC	IC	IC	11m 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	28 Nov 2022	1055	2	<2	<2	<2	15.4	90.09	8.1	33.45	8.1
I10	28 Nov 2022	1055	12	<2	<2	<2	15.1	90.27	8.0	33.44	8.1
I10	28 Nov 2022	1055	18	<2	<2	<2	14.9	84.59	7.6	33.43	8.1
I11	28 Nov 2022	1043	2	<2	<2	<2	15.2	88.05	8.1	33.44	8.1
I11	28 Nov 2022	1043	6	<2	<2	<2	15.1	85.72	7.9	33.44	8.1
I11	28 Nov 2022	1043	11	36e	8e	4e	15.0	67.01	7.4	33.43	8.1
I12	30 Nov 2022	933	2	<2	<2	<2	15.4	90.42	7.9	33.45	8.1
I12	30 Nov 2022	933	18	<2	<2	<2	14.7	90.81	7.4	33.41	8.1
I12	30 Nov 2022	933	27	<2	<2	<2	14.1	85.46	6.5	33.40	8.0
I13	30 Nov 2022	1005	2	<2	<2	<2	15.4	89.27	7.8	33.46	8.1
I13	30 Nov 2022	1005	18	4e	2e	<2	15.1	89.94	7.8	33.44	8.1
I13	30 Nov 2022	1005	37	<2	<2	<2	13.7	88.03	6.0	33.40	8.0
I14	30 Nov 2022	1019	2	140e	6e	10e	15.2	89.58	7.8	33.44	8.1
I14	30 Nov 2022	1019	18	86	30e	16e	14.4	89.31	6.9	33.40	8.1
I14	30 Nov 2022	1019	27	30e	4e	16e	14.0	87.89	6.4	33.39	8.0
I16	30 Nov 2022	926	2	880	340e	140e	14.8	86.01	7.2	33.31	8.1
I16	30 Nov 2022	926	18	520	88	64	14.2	88.11	6.7	33.38	8.0
I16	30 Nov 2022	926	27	22e	6e	<2	14.0	86.03	6.4	33.40	8.0
I18	30 Nov 2022	909	2	<2	<2	<2	15.6	90.51	8.0	33.46	8.2
I18	30 Nov 2022	909	12	<2	<2	<2	15.6	90.81	7.9	33.46	8.2
I18	30 Nov 2022	909	18	6e	<2	<2	15.2	90.94	7.8	33.44	8.1
I20	30 Nov 2022	803	2	<2	<2	<2	15.9	90.26	7.8	33.48	8.1
I20	30 Nov 2022	803	18	<2	<2	<2	15.1	90.81	7.9	33.43	8.1
I20	30 Nov 2022	803	55	<2	<2	<2	13.1	89.38	5.4	33.42	7.9
I21	30 Nov 2022	820	2	4e	2e	<2	15.0	89.41	7.8	33.43	8.1
I21	30 Nov 2022	820	18	10e	2e	<2	14.8	89.76	7.6	33.42	8.1
I21	30 Nov 2022	820	37	20e	<2	<2	13.7	87.96	5.9	33.41	8.0
I22	30 Nov 2022	848	2	160e	12e	54	15.2	89.35	7.8	33.43	8.1
I22	30 Nov 2022	848	18	100	4e	30e	14.3	90.61	6.9	33.40	8.1
I22	30 Nov 2022	848	27	14e	<2	2e	14.0	75.64	6.3	33.40	8.0
I23	30 Nov 2022	858	2	2e	<2	<2	15.4	90.27	8.0	33.46	8.1
I23	30 Nov 2022	858	12	<2	<2	<2	15.4	90.82	8.0	33.45	8.1
I23	30 Nov 2022	858	18	<2	<2	<2	15.1	90.77	7.7	33.43	8.1
I3	28 Nov 2022	932	2	<2	<2	<2	15.6	90.12	8.0	33.46	8.1
I3	28 Nov 2022	932	18	<2	<2	<2	15.1	89.59	8.1	33.44	8.1
I3	28 Nov 2022	932	27	<2	<2	<2	14.0	77.25	6.4	33.39	8.0
I30	29 Nov 2022	1015	2	<2	<2	<2	15.0	81.08	7.8	33.45	8.1
I30	29 Nov 2022	1015	18	<2	<2	<2	14.9	85.21	7.7	33.44	8.1
I30	29 Nov 2022	1015	27	<20	<2	<2	14.5	74.80	6.2	33.42	8.0

Station	Date	Time	Depth	Total	Fecal	Enterο	Temp	XMS	DO	Sal	pH
I33	29 Nov 2022	918	2	<2	<2	<2	15.2	81.79	7.3	33.48	8.1
I33	29 Nov 2022	918	18	<2	<2	<2	15.1	79.28	6.9	33.48	8.0
I33	29 Nov 2022	918	27	<2	<2	<2	14.8	76.25	6.4	33.45	8.0
I36	29 Nov 2022	1045	2	<2	<2	<2	15.1	69.45	8.0	33.45	8.1
I36	29 Nov 2022	1045	6	<2	<2	4e	15.1	70.02	7.9	33.45	8.1
I36	29 Nov 2022	1045	11	<2	2e	6e	15.1	68.48	7.8	33.45	8.1
I37	29 Nov 2022	850	2	2e	<2	<2	15.1	78.52	7.3	33.48	8.0
I37	29 Nov 2022	850	6	2e	2e	<2	15.1	78.14	7.2	33.48	8.0
I37	29 Nov 2022	850	11	<2	<2	<2	15.1	78.00	7.2	33.48	8.0
I38	29 Nov 2022	1118	2	<2	<2	<2	15.4	65.24	8.4	33.49	8.1
I38	29 Nov 2022	1118	6	<2	<2	<2	15.3	65.53	8.2	33.49	8.1
I38	29 Nov 2022	1118	11	2e	<2	<2	15.2	69.09	8.0	33.49	8.1
I5	28 Nov 2022	1002	2	180e	30e	18e	15.2	75.36	8.2	33.41	8.1
I5	28 Nov 2022	1002	6	120e	28e	20e	15.1	77.56	8.1	33.41	8.1
I5	28 Nov 2022	1002	11	420	44	36e	15.1	73.59	7.9	33.42	8.1
I7	28 Nov 2022	825	2	<2	<2	<2	16.1	88.66	7.9	33.48	8.1
I7	28 Nov 2022	825	18	<2	<2	<2	15.6	88.73	7.9	33.44	8.1
I7	28 Nov 2022	825	52	<2	<2	<2	13.1	89.95	5.5	33.42	7.9
I8	28 Nov 2022	1126	2	<2	<2	<2	15.7	89.47	8.1	33.46	8.2
I8	28 Nov 2022	1126	18	<2	<2	<2	14.8	90.54	7.8	33.42	8.1
I8	28 Nov 2022	1126	37	<2	<2	<2	13.6	84.90	6.0	33.40	8.0
I9	28 Nov 2022	1109	2	<2	<2	<2	15.5	89.03	8.0	33.45	8.1
I9	28 Nov 2022	1109	18	<2	<2	<2	14.6	90.80	7.5	33.42	8.1
I9	28 Nov 2022	1109	27	2e	<2	<2	14.1	83.43	6.5	33.41	8.0

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	28 Nov 2022	Depth (m)	62
I1	28 Nov 2022	Arrive Time	848
I1	28 Nov 2022	Depart Time	902
I1	28 Nov 2022	Air Temp (C)	15.2
I1	28 Nov 2022	Weather	Continuous Layer of Clouds
I1	28 Nov 2022	Visibility (mi)	7
I1	28 Nov 2022	Wind Speed (kts)	2.7
I1	28 Nov 2022	Wind Dir	SE
I1	28 Nov 2022	Water Color	Greenish-Blue
I1	28 Nov 2022	Wave Ht Low (ft)	3
I1	28 Nov 2022	Wave Period (sec)	13
I1	28 Nov 2022	Sea State	Light Chop
I1	28 Nov 2022	High Tide (ft)	5.55
I1	28 Nov 2022	High Tide Time	1936
I1	28 Nov 2022	Low Tide (ft)	-0.52
I1	28 Nov 2022	Low Tide Time	324
I1	28 Nov 2022	Comments	none
I10	28 Nov 2022	Depth (m)	21
I10	28 Nov 2022	Arrive Time	1055
I10	28 Nov 2022	Depart Time	1059
I10	28 Nov 2022	Air Temp (C)	15.1
I10	28 Nov 2022	Weather	Partly Cloudy
I10	28 Nov 2022	Visibility (mi)	7
I10	28 Nov 2022	Wind Speed (kts)	5.9
I10	28 Nov 2022	Wind Dir	S
I10	28 Nov 2022	Water Color	Blue
I10	28 Nov 2022	Wave Ht Low (ft)	3
I10	28 Nov 2022	Wave Period (sec)	13
I10	28 Nov 2022	Sea State	Light Chop
I10	28 Nov 2022	High Tide (ft)	5.55
I10	28 Nov 2022	High Tide Time	1936
I10	28 Nov 2022	Low Tide (ft)	-0.52
I10	28 Nov 2022	Low Tide Time	324
I10	28 Nov 2022	Comments	none
I11	28 Nov 2022	Depth (m)	14
I11	28 Nov 2022	Arrive Time	1043
I11	28 Nov 2022	Depart Time	1047
I11	28 Nov 2022	Air Temp (C)	15
I11	28 Nov 2022	Weather	Partly Cloudy
I11	28 Nov 2022	Visibility (mi)	7
I11	28 Nov 2022	Wind Speed (kts)	7.3
I11	28 Nov 2022	Wind Dir	S
I11	28 Nov 2022	Water Color	Blue
I11	28 Nov 2022	Wave Ht Low (ft)	3
I11	28 Nov 2022	Wave Period (sec)	13
I11	28 Nov 2022	Sea State	Light Chop
I11	28 Nov 2022	High Tide (ft)	5.55
I11	28 Nov 2022	High Tide Time	1936
I11	28 Nov 2022	Low Tide (ft)	-0.52
I11	28 Nov 2022	Low Tide Time	324
I11	28 Nov 2022	Comments	none
I12	30 Nov 2022	Depth (m)	29
I12	30 Nov 2022	Arrive Time	933

Station	Date	Parameter	Value
I12	30 Nov 2022	Depart Time	951
I12	30 Nov 2022	Air Temp (C)	14.5
I12	30 Nov 2022	Weather	Continuous Layer of Clouds
I12	30 Nov 2022	Visibility (mi)	10
I12	30 Nov 2022	Wind Speed (kts)	3.6
I12	30 Nov 2022	Wind Dir	S
I12	30 Nov 2022	Water Color	Blueish-Green
I12	30 Nov 2022	Wave Ht Low (ft)	3
I12	30 Nov 2022	Wave Period (sec)	12
I12	30 Nov 2022	Sea State	Heavy Chop
I12	30 Nov 2022	High Tide (ft)	4.43
I12	30 Nov 2022	High Tide Time	2224
I12	30 Nov 2022	Low Tide (ft)	0.11
I12	30 Nov 2022	Low Tide Time	536
I12	30 Nov 2022	Comments	OA and nitrate taken at 1m and 26m
I13	30 Nov 2022	Depth (m)	31
I13	30 Nov 2022	Arrive Time	1005
I13	30 Nov 2022	Depart Time	1012
I13	30 Nov 2022	Air Temp (C)	14.6
I13	30 Nov 2022	Weather	Continuous Layer of Clouds
I13	30 Nov 2022	Visibility (mi)	10
I13	30 Nov 2022	Wind Speed (kts)	0.9
I13	30 Nov 2022	Wind Dir	SE
I13	30 Nov 2022	Water Color	Blueish-Green
I13	30 Nov 2022	Wave Ht Low (ft)	3
I13	30 Nov 2022	Wave Period (sec)	12
I13	30 Nov 2022	Sea State	Light Chop
I13	30 Nov 2022	High Tide (ft)	4.43
I13	30 Nov 2022	High Tide Time	2224
I13	30 Nov 2022	Low Tide (ft)	0.11
I13	30 Nov 2022	Low Tide Time	536
I13	30 Nov 2022	Comments	none
I14	30 Nov 2022	Depth (m)	29
I14	30 Nov 2022	Arrive Time	1019
I14	30 Nov 2022	Depart Time	1025
I14	30 Nov 2022	Air Temp (C)	14.6
I14	30 Nov 2022	Weather	Continuous Layer of Clouds
I14	30 Nov 2022	Visibility (mi)	10
I14	30 Nov 2022	Wind Speed (kts)	10
I14	30 Nov 2022	Wind Dir	292
I14	30 Nov 2022	Water Color	Blueish-Green
I14	30 Nov 2022	Wave Ht Low (ft)	3
I14	30 Nov 2022	Wave Period (sec)	12
I14	30 Nov 2022	Sea State	Light Chop
I14	30 Nov 2022	High Tide (ft)	4.43
I14	30 Nov 2022	High Tide Time	2224
I14	30 Nov 2022	Low Tide (ft)	0.11
I14	30 Nov 2022	Low Tide Time	536
I14	30 Nov 2022	Comments	none
I15	30 Nov 2022	Depth (m)	27
I15	30 Nov 2022	Arrive Time	953
I15	30 Nov 2022	Depart Time	959
I15	30 Nov 2022	Air Temp (C)	14.6
I15	30 Nov 2022	Weather	Continuous Layer of Clouds
I15	30 Nov 2022	Visibility (mi)	10
I15	30 Nov 2022	Wind Speed (kts)	3.1
I15	30 Nov 2022	Wind Dir	S
I15	30 Nov 2022	Water Color	Blueish-Green

Station	Date	Parameter	Value
I15	30 Nov 2022	Wave Ht Low (ft)	3
I15	30 Nov 2022	Wave Period (sec)	12
I15	30 Nov 2022	Sea State	Light Chop
I15	30 Nov 2022	High Tide (ft)	4.43
I15	30 Nov 2022	High Tide Time	2224
I15	30 Nov 2022	Low Tide (ft)	0.11
I15	30 Nov 2022	Low Tide Time	536
I15	30 Nov 2022	Comments	none
I16	30 Nov 2022	Depth (m)	28
I16	30 Nov 2022	Arrive Time	926
I16	30 Nov 2022	Depart Time	931
I16	30 Nov 2022	Air Temp (C)	14.6
I16	30 Nov 2022	Weather	Continuous Layer of Clouds
I16	30 Nov 2022	Visibility (mi)	10
I16	30 Nov 2022	Wind Speed (kts)	3.9
I16	30 Nov 2022	Wind Dir	SE
I16	30 Nov 2022	Water Color	Blueish-Green
I16	30 Nov 2022	Wave Ht Low (ft)	3
I16	30 Nov 2022	Wave Period (sec)	12
I16	30 Nov 2022	Sea State	Heavy Chop
I16	30 Nov 2022	High Tide (ft)	4.43
I16	30 Nov 2022	High Tide Time	2224
I16	30 Nov 2022	Low Tide (ft)	0.11
I16	30 Nov 2022	Low Tide Time	536
I16	30 Nov 2022	Comments	none
I17	30 Nov 2022	Depth (m)	25
I17	30 Nov 2022	Arrive Time	918
I17	30 Nov 2022	Depart Time	923
I17	30 Nov 2022	Air Temp (C)	14.5
I17	30 Nov 2022	Weather	Continuous Layer of Clouds
I17	30 Nov 2022	Visibility (mi)	10
I17	30 Nov 2022	Wind Speed (kts)	4.5
I17	30 Nov 2022	Wind Dir	W
I17	30 Nov 2022	Water Color	Greenish-Blue
I17	30 Nov 2022	Wave Ht Low (ft)	3
I17	30 Nov 2022	Wave Period (sec)	12
I17	30 Nov 2022	Sea State	Heavy Chop
I17	30 Nov 2022	High Tide (ft)	4.43
I17	30 Nov 2022	High Tide Time	2224
I17	30 Nov 2022	Low Tide (ft)	0.11
I17	30 Nov 2022	Low Tide Time	536
I17	30 Nov 2022	Comments	none
I18	30 Nov 2022	Depth (m)	23
I18	30 Nov 2022	Arrive Time	909
I18	30 Nov 2022	Depart Time	918
I18	30 Nov 2022	Air Temp (C)	14.5
I18	30 Nov 2022	Weather	Continuous Layer of Clouds
I18	30 Nov 2022	Visibility (mi)	10
I18	30 Nov 2022	Wind Speed (kts)	3.8
I18	30 Nov 2022	Wind Dir	S
I18	30 Nov 2022	Water Color	Greenish-Blue
I18	30 Nov 2022	Wave Ht Low (ft)	3
I18	30 Nov 2022	Wave Period (sec)	12
I18	30 Nov 2022	Sea State	Heavy Chop
I18	30 Nov 2022	High Tide (ft)	4.43
I18	30 Nov 2022	High Tide Time	2224
I18	30 Nov 2022	Low Tide (ft)	0.11
I18	30 Nov 2022	Low Tide Time	536

Station	Date	Parameter	Value
I18	30 Nov 2022	Comments	none
I2	28 Nov 2022	Depth (m)	32
I2	28 Nov 2022	Arrive Time	920
I2	28 Nov 2022	Depart Time	925
I2	28 Nov 2022	Air Temp (C)	15.2
I2	28 Nov 2022	Weather	Partly Cloudy
I2	28 Nov 2022	Visibility (mi)	7
I2	28 Nov 2022	Wind Speed (kts)	6
I2	28 Nov 2022	Wind Dir	S
I2	28 Nov 2022	Water Color	Greenish-Blue
I2	28 Nov 2022	Wave Ht Low (ft)	3
I2	28 Nov 2022	Wave Period (sec)	13
I2	28 Nov 2022	Sea State	Light Chop
I2	28 Nov 2022	High Tide (ft)	5.55
I2	28 Nov 2022	High Tide Time	1936
I2	28 Nov 2022	Low Tide (ft)	-0.52
I2	28 Nov 2022	Low Tide Time	324
I2	28 Nov 2022	Comments	none
I20	30 Nov 2022	Depth (m)	55
I20	30 Nov 2022	Arrive Time	803
I20	30 Nov 2022	Depart Time	814
I20	30 Nov 2022	Air Temp (C)	14.5
I20	30 Nov 2022	Weather	Continuous Layer of Clouds
I20	30 Nov 2022	Visibility (mi)	10
I20	30 Nov 2022	Wind Speed (kts)	8
I20	30 Nov 2022	Wind Dir	SE
I20	30 Nov 2022	Water Color	Blue
I20	30 Nov 2022	Wave Ht Low (ft)	3
I20	30 Nov 2022	Wave Period (sec)	12
I20	30 Nov 2022	Sea State	Heavy Chop
I20	30 Nov 2022	High Tide (ft)	4.43
I20	30 Nov 2022	High Tide Time	2224
I20	30 Nov 2022	Low Tide (ft)	0.11
I20	30 Nov 2022	Low Tide Time	536
I20	30 Nov 2022	Comments	Niskin bottle 1 malfunction; 2-m bottle taken via van dorn
I21	30 Nov 2022	Depth (m)	41
I21	30 Nov 2022	Arrive Time	820
I21	30 Nov 2022	Depart Time	829
I21	30 Nov 2022	Air Temp (C)	14.5
I21	30 Nov 2022	Weather	Continuous Layer of Clouds
I21	30 Nov 2022	Visibility (mi)	10
I21	30 Nov 2022	Wind Speed (kts)	6
I21	30 Nov 2022	Wind Dir	SE
I21	30 Nov 2022	Water Color	Blue
I21	30 Nov 2022	Wave Ht Low (ft)	3
I21	30 Nov 2022	Wave Period (sec)	12
I21	30 Nov 2022	Sea State	Heavy Chop
I21	30 Nov 2022	High Tide (ft)	4.43
I21	30 Nov 2022	High Tide Time	2224
I21	30 Nov 2022	Low Tide (ft)	0.11
I21	30 Nov 2022	Low Tide Time	536
I21	30 Nov 2022	Comments	OA taken at 41m and 1m
I22	30 Nov 2022	Depth (m)	22
I22	30 Nov 2022	Arrive Time	848
I22	30 Nov 2022	Depart Time	856
I22	30 Nov 2022	Air Temp (C)	14.3
I22	30 Nov 2022	Weather	Continuous Layer of Clouds

Station	Date	Parameter	Value
I22	30 Nov 2022	Visibility (mi)	10
I22	30 Nov 2022	Wind Speed (kts)	5.5
I22	30 Nov 2022	Wind Dir	SW
I22	30 Nov 2022	Water Color	Blue
I22	30 Nov 2022	Wave Ht Low (ft)	3
I22	30 Nov 2022	Wave Period (sec)	12
I22	30 Nov 2022	Sea State	Heavy Chop
I22	30 Nov 2022	High Tide (ft)	4.43
I22	30 Nov 2022	High Tide Time	2224
I22	30 Nov 2022	Low Tide (ft)	0.11
I22	30 Nov 2022	Low Tide Time	536
I22	30 Nov 2022	Comments	none
I23	30 Nov 2022	Depth (m)	22
I23	30 Nov 2022	Arrive Time	858
I23	30 Nov 2022	Depart Time	903
I23	30 Nov 2022	Air Temp (C)	14.6
I23	30 Nov 2022	Weather	Continuous Layer of Clouds
I23	30 Nov 2022	Visibility (mi)	10
I23	30 Nov 2022	Wind Speed (kts)	2.3
I23	30 Nov 2022	Wind Dir	SE
I23	30 Nov 2022	Water Color	Greenish-Blue
I23	30 Nov 2022	Wave Ht Low (ft)	3
I23	30 Nov 2022	Wave Period (sec)	12
I23	30 Nov 2022	Sea State	Heavy Chop
I23	30 Nov 2022	High Tide (ft)	4.43
I23	30 Nov 2022	High Tide Time	2224
I23	30 Nov 2022	Low Tide (ft)	0.11
I23	30 Nov 2022	Low Tide Time	536
I23	30 Nov 2022	Comments	none
I27	30 Nov 2022	Depth (m)	29
I27	30 Nov 2022	Arrive Time	837
I27	30 Nov 2022	Depart Time	843
I27	30 Nov 2022	Air Temp (C)	13.2
I27	30 Nov 2022	Weather	Continuous Layer of Clouds
I27	30 Nov 2022	Visibility (mi)	10
I27	30 Nov 2022	Wind Speed (kts)	7.2
I27	30 Nov 2022	Wind Dir	NE
I27	30 Nov 2022	Water Color	Blue
I27	30 Nov 2022	Wave Ht Low (ft)	3
I27	30 Nov 2022	Wave Period (sec)	12
I27	30 Nov 2022	Sea State	Heavy Chop
I27	30 Nov 2022	High Tide (ft)	4.43
I27	30 Nov 2022	High Tide Time	2224
I27	30 Nov 2022	Low Tide (ft)	0.11
I27	30 Nov 2022	Low Tide Time	536
I27	30 Nov 2022	Comments	none
I28	29 Nov 2022	Depth (m)	56.4
I28	29 Nov 2022	Arrive Time	835
I28	29 Nov 2022	Depart Time	852
I28	29 Nov 2022	Air Temp (C)	15.1
I28	29 Nov 2022	Weather	Partly Cloudy
I28	29 Nov 2022	Visibility (mi)	11
I28	29 Nov 2022	Wind Speed (kts)	9.7
I28	29 Nov 2022	Wind Dir	S
I28	29 Nov 2022	Water Color	Blue
I28	29 Nov 2022	Wave Ht Low (ft)	5
I28	29 Nov 2022	Wave Period (sec)	8
I28	29 Nov 2022	Sea State	Confused Swell

Station	Date	Parameter	Value
I28	29 Nov 2022	High Tide (ft)	4.94
I28	29 Nov 2022	High Tide Time	2048
I28	29 Nov 2022	Low Tide (ft)	-0.2
I28	29 Nov 2022	Low Tide Time	430
I28	29 Nov 2022	Comments	none
I29	29 Nov 2022	Depth (m)	38
I29	29 Nov 2022	Arrive Time	857
I29	29 Nov 2022	Depart Time	901
I29	29 Nov 2022	Air Temp (C)	15.1
I29	29 Nov 2022	Weather	Partly Cloudy
I29	29 Nov 2022	Visibility (mi)	11
I29	29 Nov 2022	Wind Speed (kts)	9.6
I29	29 Nov 2022	Wind Dir	S
I29	29 Nov 2022	Water Color	Green
I29	29 Nov 2022	Wave Ht Low (ft)	5
I29	29 Nov 2022	Wave Period (sec)	8
I29	29 Nov 2022	Sea State	Confused Swell
I29	29 Nov 2022	High Tide (ft)	4.94
I29	29 Nov 2022	High Tide Time	2048
I29	29 Nov 2022	Low Tide (ft)	-0.2
I29	29 Nov 2022	Low Tide Time	430
I29	29 Nov 2022	Comments	none
I3	28 Nov 2022	Depth (m)	27
I3	28 Nov 2022	Arrive Time	932
I3	28 Nov 2022	Depart Time	938
I3	28 Nov 2022	Air Temp (C)	15.1
I3	28 Nov 2022	Weather	Partly Cloudy
I3	28 Nov 2022	Visibility (mi)	7
I3	28 Nov 2022	Wind Speed (kts)	4.4
I3	28 Nov 2022	Wind Dir	S
I3	28 Nov 2022	Water Color	Greenish-Blue
I3	28 Nov 2022	Wave Ht Low (ft)	3
I3	28 Nov 2022	Wave Period (sec)	13
I3	28 Nov 2022	Sea State	Light Chop
I3	28 Nov 2022	High Tide (ft)	5.55
I3	28 Nov 2022	High Tide Time	1936
I3	28 Nov 2022	Low Tide (ft)	-0.52
I3	28 Nov 2022	Low Tide Time	324
I3	28 Nov 2022	Comments	none
I30	29 Nov 2022	Depth (m)	28.1
I30	29 Nov 2022	Arrive Time	911
I30	29 Nov 2022	Depart Time	915
I30	29 Nov 2022	Air Temp (C)	15.1
I30	29 Nov 2022	Weather	Partly Cloudy
I30	29 Nov 2022	Visibility (mi)	11
I30	29 Nov 2022	Wind Speed (kts)	7.9
I30	29 Nov 2022	Wind Dir	S
I30	29 Nov 2022	Water Color	Green
I30	29 Nov 2022	Wave Ht Low (ft)	5
I30	29 Nov 2022	Wave Period (sec)	8
I30	29 Nov 2022	Sea State	Confused Swell
I30	29 Nov 2022	High Tide (ft)	4.94
I30	29 Nov 2022	High Tide Time	2048
I30	29 Nov 2022	Low Tide (ft)	-0.2
I30	29 Nov 2022	Low Tide Time	430
I30	29 Nov 2022	Comments	none
I31	29 Nov 2022	Depth (m)	19.1

Station	Date	Parameter	Value
I31	29 Nov 2022	Arrive Time	924
I31	29 Nov 2022	Depart Time	928
I31	29 Nov 2022	Air Temp (C)	14.9
I31	29 Nov 2022	Weather	Partly Cloudy
I31	29 Nov 2022	Visibility (mi)	11
I31	29 Nov 2022	Wind Speed (kts)	7
I31	29 Nov 2022	Wind Dir	S
I31	29 Nov 2022	Water Color	Green
I31	29 Nov 2022	Wave Ht Low (ft)	5
I31	29 Nov 2022	Wave Period (sec)	8
I31	29 Nov 2022	Sea State	Confused Swell
I31	29 Nov 2022	High Tide (ft)	4.94
I31	29 Nov 2022	High Tide Time	2048
I31	29 Nov 2022	Low Tide (ft)	-0.2
I31	29 Nov 2022	Low Tide Time	430
I31	29 Nov 2022	Comments	none
I33	29 Nov 2022	Depth (m)	30.2
I33	29 Nov 2022	Arrive Time	816
I33	29 Nov 2022	Depart Time	825
I33	29 Nov 2022	Air Temp (C)	15.1
I33	29 Nov 2022	Weather	Partly Cloudy
I33	29 Nov 2022	Visibility (mi)	11
I33	29 Nov 2022	Wind Speed (kts)	6.8
I33	29 Nov 2022	Wind Dir	SE
I33	29 Nov 2022	Water Color	Green
I33	29 Nov 2022	Wave Ht Low (ft)	5
I33	29 Nov 2022	Wave Period (sec)	8
I33	29 Nov 2022	Sea State	Confused Swell
I33	29 Nov 2022	High Tide (ft)	4.94
I33	29 Nov 2022	High Tide Time	2048
I33	29 Nov 2022	Low Tide (ft)	-0.2
I33	29 Nov 2022	Low Tide Time	430
I33	29 Nov 2022	Comments	none
I34	29 Nov 2022	Depth (m)	19.5
I34	29 Nov 2022	Arrive Time	801
I34	29 Nov 2022	Depart Time	806
I34	29 Nov 2022	Air Temp (C)	14
I34	29 Nov 2022	Weather	Partly Cloudy
I34	29 Nov 2022	Visibility (mi)	11
I34	29 Nov 2022	Wind Speed (kts)	6.8
I34	29 Nov 2022	Wind Dir	E
I34	29 Nov 2022	Water Color	Green
I34	29 Nov 2022	Wave Ht Low (ft)	5
I34	29 Nov 2022	Wave Period (sec)	8
I34	29 Nov 2022	Sea State	Confused Swell
I34	29 Nov 2022	High Tide (ft)	4.94
I34	29 Nov 2022	High Tide Time	2048
I34	29 Nov 2022	Low Tide (ft)	-0.2
I34	29 Nov 2022	Low Tide Time	430
I34	29 Nov 2022	Comments	none
I35	29 Nov 2022	Depth (m)	19.7
I35	29 Nov 2022	Arrive Time	959
I35	29 Nov 2022	Depart Time	1002
I35	29 Nov 2022	Air Temp (C)	14.9
I35	29 Nov 2022	Weather	Partly Cloudy
I35	29 Nov 2022	Visibility (mi)	11
I35	29 Nov 2022	Wind Speed (kts)	6.1
I35	29 Nov 2022	Wind Dir	S

Station	Date	Parameter	Value
I35	29 Nov 2022	Water Color	Green
I35	29 Nov 2022	Wave Ht Low (ft)	5
I35	29 Nov 2022	Wave Period (sec)	8
I35	29 Nov 2022	Sea State	Confused Swell
I35	29 Nov 2022	High Tide (ft)	4.94
I35	29 Nov 2022	High Tide Time	2048
I35	29 Nov 2022	Low Tide (ft)	-0.2
I35	29 Nov 2022	Low Tide Time	430
I35	29 Nov 2022	Comments	Navy vessel on edge of station
I36	29 Nov 2022	Depth (m)	11.1
I36	29 Nov 2022	Arrive Time	942
I36	29 Nov 2022	Depart Time	947
I36	29 Nov 2022	Air Temp (C)	15
I36	29 Nov 2022	Weather	Partly Cloudy
I36	29 Nov 2022	Visibility (mi)	11
I36	29 Nov 2022	Wind Speed (kts)	6.6
I36	29 Nov 2022	Wind Dir	S
I36	29 Nov 2022	Water Color	Green
I36	29 Nov 2022	Wave Ht Low (ft)	5
I36	29 Nov 2022	Wave Period (sec)	8
I36	29 Nov 2022	Sea State	Confused Swell
I36	29 Nov 2022	High Tide (ft)	4.94
I36	29 Nov 2022	High Tide Time	2048
I36	29 Nov 2022	Low Tide (ft)	-0.2
I36	29 Nov 2022	Low Tide Time	430
I36	29 Nov 2022	Comments	none
I37	29 Nov 2022	Depth (m)	13.3
I37	29 Nov 2022	Arrive Time	749
I37	29 Nov 2022	Depart Time	752
I37	29 Nov 2022	Air Temp (C)	14.1
I37	29 Nov 2022	Weather	Partly Cloudy
I37	29 Nov 2022	Visibility (mi)	11
I37	29 Nov 2022	Wind Speed (kts)	9
I37	29 Nov 2022	Wind Dir	E
I37	29 Nov 2022	Water Color	Green
I37	29 Nov 2022	Wave Ht Low (ft)	5
I37	29 Nov 2022	Wave Period (sec)	8
I37	29 Nov 2022	Sea State	Confused Swell
I37	29 Nov 2022	High Tide (ft)	4.94
I37	29 Nov 2022	High Tide Time	2048
I37	29 Nov 2022	Low Tide (ft)	-0.2
I37	29 Nov 2022	Low Tide Time	430
I37	29 Nov 2022	Comments	none
I38	29 Nov 2022	Depth (m)	11.6
I38	29 Nov 2022	Arrive Time	1015
I38	29 Nov 2022	Depart Time	1020
I38	29 Nov 2022	Air Temp (C)	15
I38	29 Nov 2022	Weather	Partly Cloudy
I38	29 Nov 2022	Visibility (mi)	11
I38	29 Nov 2022	Wind Speed (kts)	5.4
I38	29 Nov 2022	Wind Dir	S
I38	29 Nov 2022	Water Color	Brownish-Green
I38	29 Nov 2022	Wave Ht Low (ft)	5
I38	29 Nov 2022	Wave Period (sec)	8
I38	29 Nov 2022	Sea State	Confused Swell
I38	29 Nov 2022	High Tide (ft)	4.94
I38	29 Nov 2022	High Tide Time	2048
I38	29 Nov 2022	Low Tide (ft)	-0.2

Station	Date	Parameter	Value
I38	29 Nov 2022	Low Tide Time	430
I38	29 Nov 2022	Comments	none
I4	28 Nov 2022	Depth (m)	21
I4	28 Nov 2022	Arrive Time	945
I4	28 Nov 2022	Depart Time	949
I4	28 Nov 2022	Air Temp (C)	15.2
I4	28 Nov 2022	Weather	Partly Cloudy
I4	28 Nov 2022	Visibility (mi)	7
I4	28 Nov 2022	Wind Speed (kts)	6.1
I4	28 Nov 2022	Wind Dir	S
I4	28 Nov 2022	Water Color	Greenish-Blue
I4	28 Nov 2022	Wave Ht Low (ft)	3
I4	28 Nov 2022	Wave Period (sec)	13
I4	28 Nov 2022	Sea State	Light Chop
I4	28 Nov 2022	High Tide (ft)	5.55
I4	28 Nov 2022	High Tide Time	1936
I4	28 Nov 2022	Low Tide (ft)	-0.52
I4	28 Nov 2022	Low Tide Time	324
I4	28 Nov 2022	Comments	none
I5	28 Nov 2022	Depth (m)	15
I5	28 Nov 2022	Arrive Time	1002
I5	28 Nov 2022	Depart Time	1007
I5	28 Nov 2022	Air Temp (C)	15.2
I5	28 Nov 2022	Weather	Partly Cloudy
I5	28 Nov 2022	Visibility (mi)	7
I5	28 Nov 2022	Wind Speed (kts)	4.5
I5	28 Nov 2022	Wind Dir	S
I5	28 Nov 2022	Water Color	Green
I5	28 Nov 2022	Wave Ht Low (ft)	3
I5	28 Nov 2022	Wave Period (sec)	13
I5	28 Nov 2022	Sea State	Light Chop
I5	28 Nov 2022	High Tide (ft)	5.55
I5	28 Nov 2022	High Tide Time	1936
I5	28 Nov 2022	Low Tide (ft)	-0.52
I5	28 Nov 2022	Low Tide Time	324
I5	28 Nov 2022	Comments	4-pin pigtail disconnected - use 2nd file
I6	28 Nov 2022	Depth (m)	28
I6	28 Nov 2022	Arrive Time	1018
I6	28 Nov 2022	Depart Time	1023
I6	28 Nov 2022	Air Temp (C)	15.3
I6	28 Nov 2022	Weather	Partly Cloudy
I6	28 Nov 2022	Visibility (mi)	7
I6	28 Nov 2022	Wind Speed (kts)	6.1
I6	28 Nov 2022	Wind Dir	S
I6	28 Nov 2022	Water Color	Green
I6	28 Nov 2022	Wave Ht Low (ft)	3
I6	28 Nov 2022	Wave Period (sec)	13
I6	28 Nov 2022	Sea State	Light Chop
I6	28 Nov 2022	High Tide (ft)	5.55
I6	28 Nov 2022	High Tide Time	1936
I6	28 Nov 2022	Low Tide (ft)	-0.52
I6	28 Nov 2022	Low Tide Time	324
I6	28 Nov 2022	Comments	none
I7	28 Nov 2022	Depth (m)	52
I7	28 Nov 2022	Arrive Time	825
I7	28 Nov 2022	Depart Time	833
I7	28 Nov 2022	Air Temp (C)	15.1

Station	Date	Parameter	Value
I7	28 Nov 2022	Weather	Continuous Layer of Clouds
I7	28 Nov 2022	Visibility (mi)	7
I7	28 Nov 2022	Wind Speed (kts)	5.6
I7	28 Nov 2022	Wind Dir	S
I7	28 Nov 2022	Water Color	Greenish-Blue
I7	28 Nov 2022	Wave Ht Low (ft)	3
I7	28 Nov 2022	Wave Period (sec)	13
I7	28 Nov 2022	Sea State	Light Chop
I7	28 Nov 2022	High Tide (ft)	5.55
I7	28 Nov 2022	High Tide Time	1936
I7	28 Nov 2022	Low Tide (ft)	-0.52
I7	28 Nov 2022	Low Tide Time	324
I7	28 Nov 2022	Comments	No fatho serial feed all day
I8	28 Nov 2022	Depth (m)	38
I8	28 Nov 2022	Arrive Time	1126
I8	28 Nov 2022	Depart Time	1132
I8	28 Nov 2022	Air Temp (C)	14.9
I8	28 Nov 2022	Weather	Partly Cloudy
I8	28 Nov 2022	Visibility (mi)	7
I8	28 Nov 2022	Wind Speed (kts)	8
I8	28 Nov 2022	Wind Dir	S
I8	28 Nov 2022	Water Color	Blue
I8	28 Nov 2022	Wave Ht Low (ft)	3
I8	28 Nov 2022	Wave Period (sec)	13
I8	28 Nov 2022	Sea State	Light Chop
I8	28 Nov 2022	High Tide (ft)	5.55
I8	28 Nov 2022	High Tide Time	1936
I8	28 Nov 2022	Low Tide (ft)	-0.52
I8	28 Nov 2022	Low Tide Time	324
I8	28 Nov 2022	Comments	none
I9	28 Nov 2022	Depth (m)	31
I9	28 Nov 2022	Arrive Time	1109
I9	28 Nov 2022	Depart Time	1116
I9	28 Nov 2022	Air Temp (C)	14.9
I9	28 Nov 2022	Weather	Partly Cloudy
I9	28 Nov 2022	Visibility (mi)	7
I9	28 Nov 2022	Wind Speed (kts)	7.2
I9	28 Nov 2022	Wind Dir	S
I9	28 Nov 2022	Water Color	Blue
I9	28 Nov 2022	Wave Ht Low (ft)	3
I9	28 Nov 2022	Wave Period (sec)	13
I9	28 Nov 2022	Sea State	Light Chop
I9	28 Nov 2022	High Tide (ft)	5.55
I9	28 Nov 2022	High Tide Time	1936
I9	28 Nov 2022	Low Tide (ft)	-0.52
I9	28 Nov 2022	Low Tide Time	324
I9	28 Nov 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	28 Nov 2022	1	16.60	89.79	7.7	33.49	8.1	24.4	0.63
I1	28 Nov 2022	2	16.60	89.97	7.7	33.49	8.1	24.4	0.63
I1	28 Nov 2022	3	16.58	90.14	7.7	33.48	8.1	24.4	0.65
I1	28 Nov 2022	4	16.57	90.10	7.7	33.48	8.1	24.4	0.69
I1	28 Nov 2022	5	16.36	90.03	7.7	33.47	8.1	24.5	0.77
I1	28 Nov 2022	6	16.20	89.44	7.8	33.47	8.1	24.5	0.94
I1	28 Nov 2022	7	16.14	89.44	7.8	33.47	8.1	24.5	0.97
I1	28 Nov 2022	8	16.03	89.53	7.9	33.46	8.1	24.6	0.96
I1	28 Nov 2022	9	16.02	89.51	7.9	33.46	8.1	24.6	1.01
I1	28 Nov 2022	10	15.98	89.61	7.9	33.46	8.1	24.6	1.07
I1	28 Nov 2022	11	15.95	89.51	7.9	33.46	8.1	24.6	1.22
I1	28 Nov 2022	12	15.87	89.24	7.8	33.45	8.1	24.6	1.33
I1	28 Nov 2022	13	15.80	89.19	7.9	33.45	8.1	24.6	1.52
I1	28 Nov 2022	14	15.81	89.15	7.9	33.45	8.1	24.6	1.65
I1	28 Nov 2022	15	15.77	89.17	7.8	33.45	8.1	24.6	1.72
I1	28 Nov 2022	16	15.71	89.20	7.8	33.45	8.1	24.6	1.73
I1	28 Nov 2022	17	15.69	89.28	7.8	33.45	8.1	24.6	1.73
I1	28 Nov 2022	18	15.56	89.45	7.7	33.44	8.1	24.6	1.73
I1	28 Nov 2022	19	15.43	89.61	7.6	33.44	8.1	24.7	1.70
I1	28 Nov 2022	20	15.40	89.72	7.6	33.44	8.1	24.7	1.67
I1	28 Nov 2022	21	15.39	89.82	7.6	33.44	8.1	24.7	1.67
I1	28 Nov 2022	22	15.29	89.89	7.6	33.43	8.1	24.7	1.68
I1	28 Nov 2022	23	15.19	90.00	7.5	33.42	8.1	24.7	1.68
I1	28 Nov 2022	24	14.99	90.03	7.4	33.41	8.1	24.8	1.67
I1	28 Nov 2022	25	14.89	90.12	7.3	33.41	8.1	24.8	1.65
I1	28 Nov 2022	26	14.47	90.33	7.2	33.39	8.1	24.8	1.64
I1	28 Nov 2022	27	14.41	90.62	7.1	33.39	8.1	24.9	1.54
I1	28 Nov 2022	28	14.37	90.66	7.2	33.39	8.0	24.9	1.53
I1	28 Nov 2022	29	14.35	90.63	7.2	33.39	8.0	24.9	1.53
I1	28 Nov 2022	30	14.34	90.80	7.1	33.39	8.0	24.9	1.54
I1	28 Nov 2022	31	14.16	90.87	6.9	33.37	8.0	24.9	1.52
I1	28 Nov 2022	32	14.01	91.01	6.9	33.38	8.0	24.9	1.46
I1	28 Nov 2022	33	13.96	90.91	6.8	33.38	8.0	24.9	1.38
I1	28 Nov 2022	34	13.92	91.27	6.7	33.38	8.0	25.0	1.33
I1	28 Nov 2022	35	13.86	91.34	6.7	33.38	8.0	25.0	1.34
I1	28 Nov 2022	36	13.85	91.35	6.7	33.39	8.0	25.0	1.26
I1	28 Nov 2022	37	13.84	91.41	6.7	33.39	8.0	25.0	1.22
I1	28 Nov 2022	38	13.83	91.46	6.7	33.39	8.0	25.0	1.20
I1	28 Nov 2022	39	13.84	91.47	6.7	33.39	8.0	25.0	1.21
I1	28 Nov 2022	40	13.80	91.37	6.6	33.39	8.0	25.0	1.20
I1	28 Nov 2022	41	13.78	91.52	6.6	33.39	8.0	25.0	1.16
I1	28 Nov 2022	42	13.74	91.51	6.6	33.38	8.0	25.0	1.14
I1	28 Nov 2022	43	13.67	91.54	6.5	33.39	8.0	25.0	1.12
I1	28 Nov 2022	44	13.67	91.69	6.5	33.39	8.0	25.0	1.08
I1	28 Nov 2022	45	13.68	91.65	6.5	33.39	8.0	25.0	1.11
I1	28 Nov 2022	46	13.63	91.58	6.4	33.39	8.0	25.0	1.06
I1	28 Nov 2022	47	13.61	91.56	6.4	33.40	8.0	25.0	1.05
I1	28 Nov 2022	48	13.58	91.50	6.3	33.40	8.0	25.0	1.05
I1	28 Nov 2022	49	13.43	91.44	6.2	33.40	8.0	25.1	1.02
I1	28 Nov 2022	50	13.28	91.32	6.0	33.40	8.0	25.1	0.95
I1	28 Nov 2022	51	13.25	91.30	6.0	33.40	7.9	25.1	0.93
I1	28 Nov 2022	52	13.13	91.27	6.0	33.40	7.9	25.1	0.93
I1	28 Nov 2022	53	13.10	91.37	5.9	33.40	7.9	25.1	0.87
I1	28 Nov 2022	54	13.07	91.42	5.9	33.40	7.9	25.1	0.86
I1	28 Nov 2022	55	13.00	91.29	5.8	33.41	7.9	25.2	0.84
I1	28 Nov 2022	56	12.85	91.23	5.7	33.42	7.9	25.2	0.81

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma-t$ )	Chlor ( $\mu\text{g/L}$ )
I1	28 Nov 2022	57	12.74	91.13	5.5	33.43	7.9	25.2	0.76
I1	28 Nov 2022	58	12.48	91.00	5.4	33.46	7.9	25.3	0.69
I1	28 Nov 2022	59	12.45	90.76	5.3	33.47	7.9	25.3	0.65
I1	28 Nov 2022	60	12.44	90.66	5.3	33.47	7.9	25.3	0.64
I10	28 Nov 2022	1	15.44	89.88	8.1	33.45	8.1	24.7	0.72
I10	28 Nov 2022	2	15.43	90.09	8.1	33.45	8.1	24.7	0.75
I10	28 Nov 2022	3	15.40	90.37	8.1	33.45	8.1	24.7	0.74
I10	28 Nov 2022	4	15.36	90.46	8.1	33.45	8.1	24.7	0.79
I10	28 Nov 2022	5	15.33	90.21	8.1	33.45	8.1	24.7	0.83
I10	28 Nov 2022	6	15.32	90.03	8.1	33.45	8.1	24.7	0.93
I10	28 Nov 2022	7	15.32	90.04	8.1	33.45	8.1	24.7	1.04
I10	28 Nov 2022	8	15.30	89.88	8.0	33.45	8.1	24.7	1.06
I10	28 Nov 2022	9	15.29	90.12	8.0	33.45	8.1	24.7	1.08
I10	28 Nov 2022	10	15.26	90.28	8.0	33.44	8.1	24.7	1.14
I10	28 Nov 2022	11	15.20	90.37	7.9	33.44	8.1	24.7	1.24
I10	28 Nov 2022	12	15.14	90.27	8.0	33.44	8.1	24.7	1.27
I10	28 Nov 2022	13	15.12	90.21	8.1	33.44	8.1	24.7	1.37
I10	28 Nov 2022	14	15.07	89.90	8.0	33.44	8.1	24.8	1.37
I10	28 Nov 2022	15	15.01	89.23	8.0	33.44	8.1	24.8	1.49
I10	28 Nov 2022	16	15.01	88.27	7.9	33.44	8.1	24.8	1.52
I10	28 Nov 2022	17	14.92	86.72	7.7	33.43	8.1	24.8	1.74
I10	28 Nov 2022	18	14.86	84.59	7.6	33.43	8.1	24.8	1.96
I10	28 Nov 2022	19	14.80	81.73	7.4	33.43	8.1	24.8	2.04
I11	28 Nov 2022	1	15.21	87.86	8.1	33.44	8.1	24.7	1.06
I11	28 Nov 2022	2	15.20	88.05	8.1	33.44	8.1	24.7	1.24
I11	28 Nov 2022	3	15.19	87.98	8.1	33.44	8.1	24.7	1.16
I11	28 Nov 2022	4	15.17	88.25	8.1	33.44	8.1	24.7	1.27
I11	28 Nov 2022	5	15.12	87.70	8.0	33.44	8.1	24.7	1.39
I11	28 Nov 2022	6	15.08	85.72	7.9	33.44	8.1	24.8	1.37
I11	28 Nov 2022	7	15.07	83.23	7.9	33.44	8.1	24.8	1.69
I11	28 Nov 2022	8	15.04	80.27	7.8	33.44	8.1	24.8	1.91
I11	28 Nov 2022	9	15.01	74.94	7.6	33.43	8.1	24.8	2.17
I11	28 Nov 2022	10	15.00	70.67	7.5	33.43	8.1	24.8	2.01
I11	28 Nov 2022	11	14.98	67.01	7.4	33.43	8.1	24.8	2.13
I11	28 Nov 2022	12	14.97	65.01	7.3	33.43	8.1	24.8	2.09
I11	28 Nov 2022	13	14.95	60.99	7.3	33.43	8.1	24.8	2.15
I12	30 Nov 2022	1	15.35	90.31	7.8	33.45	8.1	24.7	1.19
I12	30 Nov 2022	2	15.37	90.42	7.9	33.45	8.1	24.7	1.36
I12	30 Nov 2022	3	15.37	90.30	7.9	33.45	8.1	24.7	1.39
I12	30 Nov 2022	4	15.37	90.31	7.9	33.45	8.1	24.7	1.38
I12	30 Nov 2022	5	15.37	90.15	7.8	33.45	8.1	24.7	1.26
I12	30 Nov 2022	6	15.36	90.49	7.8	33.45	8.1	24.7	1.35
I12	30 Nov 2022	7	15.34	90.41	7.9	33.45	8.1	24.7	1.27
I12	30 Nov 2022	8	15.34	90.28	7.8	33.45	8.1	24.7	1.22
I12	30 Nov 2022	9	15.33	90.41	7.8	33.45	8.1	24.7	1.35
I12	30 Nov 2022	10	15.32	90.49	7.9	33.45	8.1	24.7	1.50
I12	30 Nov 2022	11	15.32	90.33	7.9	33.45	8.1	24.7	1.42
I12	30 Nov 2022	12	15.30	90.35	7.9	33.45	8.1	24.7	1.35
I12	30 Nov 2022	13	15.21	90.56	7.9	33.44	8.1	24.7	1.46
I12	30 Nov 2022	14	15.07	90.72	7.8	33.43	8.1	24.7	1.39
I12	30 Nov 2022	15	14.96	90.81	7.6	33.42	8.1	24.8	1.83
I12	30 Nov 2022	16	14.86	90.86	7.6	33.41	8.1	24.8	1.80
I12	30 Nov 2022	17	14.82	90.95	7.5	33.41	8.1	24.8	1.76
I12	30 Nov 2022	18	14.70	90.81	7.4	33.41	8.1	24.8	1.70
I12	30 Nov 2022	19	14.61	90.94	7.3	33.41	8.1	24.8	1.58
I12	30 Nov 2022	20	14.55	90.96	7.2	33.40	8.1	24.8	1.68
I12	30 Nov 2022	21	14.17	90.47	6.8	33.39	8.1	24.9	1.62
I12	30 Nov 2022	22	14.13	88.64	6.6	33.40	8.0	24.9	1.74

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I12	30 Nov 2022	23	14.11	87.73	6.5	33.40	8.0	24.9	1.85
I12	30 Nov 2022	24	14.11	87.30	6.5	33.40	8.0	24.9	1.97
I12	30 Nov 2022	25	14.11	86.90	6.5	33.40	8.0	24.9	1.93
I12	30 Nov 2022	26	14.11	86.64	6.5	33.40	8.0	24.9	1.89
I12	30 Nov 2022	27	14.09	85.46	6.5	33.40	8.0	24.9	1.82
I12	30 Nov 2022	28	14.06	85.22	6.4	33.40	8.0	24.9	1.82
I13	30 Nov 2022	1	15.39	89.17	7.8	33.46	8.1	24.7	1.09
I13	30 Nov 2022	2	15.39	89.27	7.8	33.46	8.1	24.7	1.20
I13	30 Nov 2022	3	15.39	89.44	7.7	33.46	8.1	24.7	1.24
I13	30 Nov 2022	4	15.39	89.81	7.7	33.46	8.1	24.7	1.21
I13	30 Nov 2022	5	15.38	89.87	7.8	33.46	8.1	24.7	1.23
I13	30 Nov 2022	6	15.37	89.77	7.8	33.46	8.1	24.7	1.40
I13	30 Nov 2022	7	15.35	89.82	7.8	33.46	8.1	24.7	1.33
I13	30 Nov 2022	8	15.34	89.91	7.8	33.46	8.1	24.7	1.41
I13	30 Nov 2022	9	15.34	89.79	7.8	33.46	8.1	24.7	1.41
I13	30 Nov 2022	10	15.33	89.47	7.8	33.46	8.1	24.7	1.62
I13	30 Nov 2022	11	15.30	89.67	7.8	33.46	8.1	24.7	1.52
I13	30 Nov 2022	12	15.25	89.52	7.8	33.45	8.1	24.7	1.53
I13	30 Nov 2022	13	15.21	89.44	7.8	33.45	8.1	24.7	1.50
I13	30 Nov 2022	14	15.19	89.69	7.8	33.45	8.1	24.7	1.54
I13	30 Nov 2022	15	15.18	89.67	7.8	33.45	8.1	24.7	1.50
I13	30 Nov 2022	16	15.16	89.62	7.8	33.44	8.1	24.7	1.47
I13	30 Nov 2022	17	15.15	89.78	7.8	33.44	8.1	24.7	1.44
I13	30 Nov 2022	18	15.14	89.94	7.8	33.44	8.1	24.7	1.44
I13	30 Nov 2022	19	15.13	89.89	7.8	33.44	8.1	24.7	1.80
I13	30 Nov 2022	20	15.11	90.02	7.8	33.44	8.1	24.7	1.61
I13	30 Nov 2022	21	15.10	90.13	7.8	33.44	8.1	24.7	1.73
I13	30 Nov 2022	22	15.06	90.01	7.7	33.43	8.1	24.7	1.72
I13	30 Nov 2022	23	14.94	89.97	7.7	33.42	8.1	24.8	1.48
I13	30 Nov 2022	24	14.83	90.30	7.6	33.41	8.1	24.8	1.45
I13	30 Nov 2022	25	14.60	90.60	7.4	33.41	8.1	24.8	1.57
I13	30 Nov 2022	26	14.53	90.88	7.3	33.41	8.1	24.8	1.42
I13	30 Nov 2022	27	14.39	91.47	7.1	33.41	8.1	24.9	1.31
I13	30 Nov 2022	28	14.24	91.57	7.0	33.40	8.1	24.9	1.34
I13	30 Nov 2022	29	14.06	91.51	6.9	33.39	8.1	24.9	1.40
I13	30 Nov 2022	30	13.92	91.53	6.6	33.40	8.0	25.0	1.48
I13	30 Nov 2022	31	13.79	90.93	6.4	33.39	8.0	25.0	1.48
I13	30 Nov 2022	32	13.75	89.79	6.3	33.39	8.0	25.0	1.57
I13	30 Nov 2022	33	13.74	89.38	6.3	33.39	8.0	25.0	1.58
I13	30 Nov 2022	34	13.72	89.09	6.2	33.39	8.0	25.0	1.61
I13	30 Nov 2022	35	13.69	88.61	6.1	33.39	8.0	25.0	1.60
I13	30 Nov 2022	36	13.69	88.06	6.0	33.39	8.0	25.0	1.62
I13	30 Nov 2022	37	13.68	88.03	6.0	33.40	8.0	25.0	1.63
I13	30 Nov 2022	38	13.68	87.92	6.0	33.40	8.0	25.0	1.64
I14	30 Nov 2022	1	15.24	89.09	7.8	33.44	8.1	24.7	1.21
I14	30 Nov 2022	2	15.24	89.58	7.8	33.44	8.1	24.7	1.16
I14	30 Nov 2022	3	15.22	89.69	7.7	33.43	8.1	24.7	1.18
I14	30 Nov 2022	4	15.21	89.75	7.8	33.43	8.1	24.7	1.27
I14	30 Nov 2022	5	15.24	89.94	7.8	33.44	8.1	24.7	1.21
I14	30 Nov 2022	6	15.24	89.96	7.7	33.44	8.1	24.7	1.17
I14	30 Nov 2022	7	15.17	90.08	7.6	33.41	8.1	24.7	1.23
I14	30 Nov 2022	8	14.93	89.69	7.5	33.38	8.1	24.7	1.36
I14	30 Nov 2022	9	14.94	89.04	7.5	33.39	8.1	24.7	1.45
I14	30 Nov 2022	10	14.96	89.38	7.5	33.40	8.1	24.7	1.65
I14	30 Nov 2022	11	14.98	89.72	7.5	33.41	8.1	24.8	1.58
I14	30 Nov 2022	12	14.92	90.19	7.5	33.41	8.1	24.8	1.74
I14	30 Nov 2022	13	14.81	90.30	7.4	33.39	8.1	24.8	1.69
I14	30 Nov 2022	14	14.69	90.16	7.3	33.39	8.1	24.8	1.73
I14	30 Nov 2022	15	14.62	89.93	7.2	33.38	8.1	24.8	1.64

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma-t$ )	Chlor ( $\mu\text{g/L}$ )
I14	30 Nov 2022	16	14.60	89.86	7.2	33.39	8.1	24.8	1.80
I14	30 Nov 2022	17	14.47	89.82	7.1	33.40	8.1	24.9	1.96
I14	30 Nov 2022	18	14.37	89.31	6.9	33.40	8.1	24.9	1.84
I14	30 Nov 2022	19	14.23	88.88	6.7	33.39	8.0	24.9	1.76
I14	30 Nov 2022	20	14.15	87.89	6.6	33.39	8.0	24.9	1.78
I14	30 Nov 2022	21	14.14	87.18	6.5	33.39	8.0	24.9	1.84
I14	30 Nov 2022	22	14.13	87.07	6.5	33.39	8.0	24.9	1.83
I14	30 Nov 2022	23	14.12	87.15	6.5	33.39	8.0	24.9	1.83
I14	30 Nov 2022	24	14.11	87.85	6.5	33.39	8.0	24.9	1.89
I14	30 Nov 2022	25	14.11	87.80	6.5	33.39	8.0	24.9	1.88
I14	30 Nov 2022	26	14.09	87.79	6.5	33.39	8.0	24.9	1.82
I14	30 Nov 2022	27	14.04	87.89	6.4	33.39	8.0	24.9	1.85
I14	30 Nov 2022	28	14.01	86.94	6.4	33.40	8.0	24.9	1.86
I15	30 Nov 2022	1	15.17	89.63	7.9	33.44	8.1	24.7	1.19
I15	30 Nov 2022	2	15.17	89.95	7.9	33.44	8.1	24.7	1.33
I15	30 Nov 2022	3	15.17	89.91	7.9	33.44	8.1	24.7	1.28
I15	30 Nov 2022	4	15.16	90.15	7.9	33.44	8.1	24.7	1.18
I15	30 Nov 2022	5	15.13	90.10	7.9	33.43	8.1	24.7	1.51
I15	30 Nov 2022	6	15.13	90.20	7.9	33.43	8.1	24.7	1.49
I15	30 Nov 2022	7	15.12	89.62	7.9	33.43	8.1	24.7	1.34
I15	30 Nov 2022	8	15.12	90.01	7.9	33.43	8.1	24.7	1.37
I15	30 Nov 2022	9	15.10	89.98	7.9	33.43	8.1	24.7	1.35
I15	30 Nov 2022	10	15.03	90.21	7.9	33.42	8.1	24.8	1.43
I15	30 Nov 2022	11	14.95	90.28	7.9	33.42	8.1	24.8	1.54
I15	30 Nov 2022	12	14.92	90.35	7.8	33.42	8.1	24.8	1.61
I15	30 Nov 2022	13	14.91	90.35	7.8	33.42	8.1	24.8	1.53
I15	30 Nov 2022	14	14.86	90.35	7.7	33.42	8.1	24.8	1.77
I15	30 Nov 2022	15	14.73	90.48	7.6	33.41	8.1	24.8	1.56
I15	30 Nov 2022	16	14.68	90.81	7.5	33.41	8.1	24.8	1.48
I15	30 Nov 2022	17	14.63	91.04	7.4	33.40	8.1	24.8	1.59
I15	30 Nov 2022	18	14.49	91.01	7.2	33.40	8.1	24.8	1.73
I15	30 Nov 2022	19	14.42	91.03	7.1	33.40	8.1	24.9	1.56
I15	30 Nov 2022	20	14.37	90.92	7.1	33.39	8.1	24.9	1.56
I15	30 Nov 2022	21	14.36	90.95	7.1	33.39	8.1	24.9	1.47
I15	30 Nov 2022	22	14.31	91.02	7.0	33.39	8.1	24.9	1.46
I15	30 Nov 2022	23	14.11	90.99	6.8	33.39	8.0	24.9	1.50
I15	30 Nov 2022	24	14.00	89.90	6.6	33.39	8.0	24.9	1.57
I15	30 Nov 2022	25	13.98	88.77	6.5	33.39	8.0	24.9	1.68
I15	30 Nov 2022	26	13.98	88.25	6.5	33.39	8.0	24.9	1.67
I15	30 Nov 2022	27	13.98	88.20	6.4	33.39	8.0	24.9	1.68
I15	30 Nov 2022	28	13.97	87.73	6.4	33.39	8.0	24.9	1.72
I15	30 Nov 2022	29	13.97	87.60	6.4	33.39	8.0	25.0	1.71
I15	30 Nov 2022	30	13.96	87.11	6.3	33.39	8.0	25.0	1.77
I15	30 Nov 2022	31	13.95	85.98	6.3	33.39	8.0	25.0	1.79
I16	30 Nov 2022	1	14.80	77.60	7.2	33.31	8.1	24.7	1.29
I16	30 Nov 2022	2	14.79	86.01	7.2	33.31	8.1	24.7	1.36
I16	30 Nov 2022	3	14.78	87.28	7.2	33.30	8.1	24.7	1.29
I16	30 Nov 2022	4	14.74	87.24	7.2	33.30	8.1	24.7	1.32
I16	30 Nov 2022	5	14.71	87.08	7.1	33.30	8.1	24.7	1.38
I16	30 Nov 2022	6	14.61	87.04	7.0	33.28	8.1	24.7	1.39
I16	30 Nov 2022	7	14.53	86.64	7.0	33.27	8.0	24.7	1.67
I16	30 Nov 2022	8	14.53	86.55	6.9	33.34	8.1	24.8	1.69
I16	30 Nov 2022	9	14.31	87.30	6.8	33.34	8.0	24.8	1.67
I16	30 Nov 2022	10	14.34	87.52	6.8	33.34	8.0	24.8	1.68
I16	30 Nov 2022	11	14.35	88.05	6.8	33.34	8.0	24.8	1.66
I16	30 Nov 2022	12	14.36	88.08	6.8	33.35	8.0	24.8	1.70
I16	30 Nov 2022	13	14.37	88.04	6.8	33.36	8.0	24.8	1.66
I16	30 Nov 2022	14	14.35	88.20	6.8	33.35	8.0	24.8	1.62
I16	30 Nov 2022	15	14.35	87.98	6.8	33.33	8.0	24.8	1.62

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I16	30 Nov 2022	16	14.36	87.70	6.8	33.34	8.0	24.8	1.65
I16	30 Nov 2022	17	14.36	88.07	6.8	33.35	8.0	24.8	1.72
I16	30 Nov 2022	18	14.25	88.11	6.7	33.38	8.0	24.9	1.69
I16	30 Nov 2022	19	14.18	87.72	6.6	33.38	8.0	24.9	1.74
I16	30 Nov 2022	20	14.14	87.37	6.5	33.39	8.0	24.9	1.82
I16	30 Nov 2022	21	14.12	87.10	6.5	33.39	8.0	24.9	1.79
I16	30 Nov 2022	22	14.14	86.94	6.5	33.39	8.0	24.9	1.79
I16	30 Nov 2022	23	14.11	86.86	6.5	33.39	8.0	24.9	1.83
I16	30 Nov 2022	24	14.06	86.61	6.4	33.39	8.0	24.9	1.88
I16	30 Nov 2022	25	14.01	86.42	6.4	33.40	8.0	24.9	1.88
I16	30 Nov 2022	26	14.04	86.43	6.4	33.39	8.0	24.9	1.91
I16	30 Nov 2022	27	14.01	86.03	6.4	33.40	8.0	24.9	1.78
I16	30 Nov 2022	28	14.01	84.79	6.3	33.40	8.0	24.9	1.81
I17	30 Nov 2022	1	15.46	90.10	7.9	33.46	8.1	24.7	1.20
I17	30 Nov 2022	2	15.46	89.66	7.9	33.46	8.1	24.7	1.33
I17	30 Nov 2022	3	15.46	90.07	7.9	33.46	8.1	24.7	1.45
I17	30 Nov 2022	4	15.46	90.27	7.9	33.46	8.1	24.7	1.40
I17	30 Nov 2022	5	15.46	90.23	7.9	33.46	8.1	24.7	1.42
I17	30 Nov 2022	6	15.45	90.45	7.9	33.46	8.1	24.7	1.38
I17	30 Nov 2022	7	15.41	90.48	7.9	33.46	8.1	24.7	1.38
I17	30 Nov 2022	8	15.38	90.69	7.9	33.45	8.1	24.7	1.35
I17	30 Nov 2022	9	15.30	90.71	7.8	33.45	8.1	24.7	1.39
I17	30 Nov 2022	10	15.24	90.68	7.8	33.44	8.1	24.7	1.41
I17	30 Nov 2022	11	15.22	90.72	7.8	33.44	8.1	24.7	1.48
I17	30 Nov 2022	12	15.17	91.00	7.8	33.44	8.1	24.7	1.70
I17	30 Nov 2022	13	15.06	90.94	7.7	33.43	8.1	24.7	1.54
I17	30 Nov 2022	14	14.88	90.84	7.6	33.42	8.1	24.8	1.51
I17	30 Nov 2022	15	14.76	90.51	7.5	33.41	8.1	24.8	1.64
I17	30 Nov 2022	16	14.68	89.02	7.3	33.42	8.1	24.8	1.79
I17	30 Nov 2022	17	14.60	85.85	7.2	33.41	8.1	24.8	1.99
I17	30 Nov 2022	18	14.43	85.16	6.9	33.41	8.1	24.9	2.24
I17	30 Nov 2022	19	14.39	84.13	6.8	33.41	8.1	24.9	2.35
I17	30 Nov 2022	20	14.39	84.08	6.8	33.41	8.0	24.9	2.30
I17	30 Nov 2022	21	14.29	85.38	6.8	33.40	8.0	24.9	2.23
I17	30 Nov 2022	22	14.24	85.86	6.7	33.40	8.0	24.9	2.17
I17	30 Nov 2022	23	14.22	85.85	6.7	33.40	8.0	24.9	2.20
I17	30 Nov 2022	24	14.21	85.49	6.6	33.40	8.0	24.9	2.10
I17	30 Nov 2022	25	14.20	84.68	6.6	33.40	8.0	24.9	2.15
I18	30 Nov 2022	1	15.58	90.47	8.0	33.46	8.1	24.7	1.21
I18	30 Nov 2022	2	15.58	90.51	8.0	33.46	8.2	24.7	1.30
I18	30 Nov 2022	3	15.58	90.60	8.0	33.46	8.1	24.7	1.48
I18	30 Nov 2022	4	15.58	90.63	8.0	33.46	8.1	24.7	1.46
I18	30 Nov 2022	5	15.58	90.71	8.0	33.46	8.2	24.7	1.37
I18	30 Nov 2022	6	15.58	90.78	8.0	33.46	8.2	24.7	1.41
I18	30 Nov 2022	7	15.58	90.82	7.9	33.46	8.2	24.7	1.36
I18	30 Nov 2022	8	15.58	90.76	8.0	33.46	8.2	24.7	1.34
I18	30 Nov 2022	9	15.58	90.79	7.9	33.46	8.2	24.7	1.40
I18	30 Nov 2022	10	15.58	90.80	7.9	33.46	8.2	24.7	1.38
I18	30 Nov 2022	11	15.57	90.93	7.9	33.46	8.2	24.7	1.31
I18	30 Nov 2022	12	15.56	90.81	7.9	33.46	8.2	24.7	1.36
I18	30 Nov 2022	13	15.54	90.88	7.9	33.46	8.2	24.7	1.35
I18	30 Nov 2022	14	15.54	90.86	8.0	33.46	8.1	24.7	1.30
I18	30 Nov 2022	15	15.50	90.81	8.0	33.46	8.1	24.7	1.32
I18	30 Nov 2022	16	15.44	90.90	8.0	33.45	8.1	24.7	1.34
I18	30 Nov 2022	17	15.41	90.94	7.9	33.45	8.1	24.7	1.50
I18	30 Nov 2022	18	15.25	90.94	7.8	33.44	8.1	24.7	1.59
I18	30 Nov 2022	19	14.91	90.78	7.7	33.43	8.1	24.8	1.68
I2	28 Nov 2022	1	15.88	89.34	7.9	33.47	8.1	24.6	0.97

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I2	28 Nov 2022	2	15.88	89.34	7.9	33.47	8.1	24.6	1.00
I2	28 Nov 2022	3	15.88	89.39	7.9	33.47	8.1	24.6	1.03
I2	28 Nov 2022	4	15.88	89.40	7.9	33.47	8.1	24.6	1.05
I2	28 Nov 2022	5	15.88	89.44	7.9	33.47	8.1	24.6	1.06
I2	28 Nov 2022	6	15.88	89.48	7.9	33.47	8.1	24.6	1.09
I2	28 Nov 2022	7	15.88	89.46	7.9	33.47	8.1	24.6	1.13
I2	28 Nov 2022	8	15.87	89.42	7.9	33.47	8.1	24.6	1.19
I2	28 Nov 2022	9	15.86	89.47	7.9	33.47	8.1	24.6	1.23
I2	28 Nov 2022	10	15.85	89.52	7.8	33.47	8.1	24.6	1.37
I2	28 Nov 2022	11	15.84	89.51	7.9	33.46	8.1	24.6	1.33
I2	28 Nov 2022	12	15.82	89.48	7.9	33.46	8.1	24.6	1.43
I2	28 Nov 2022	13	15.76	89.49	7.9	33.46	8.1	24.6	1.46
I2	28 Nov 2022	14	15.63	89.75	8.0	33.45	8.1	24.6	1.52
I2	28 Nov 2022	15	15.57	89.87	8.0	33.45	8.1	24.7	1.45
I2	28 Nov 2022	16	15.53	90.01	8.0	33.45	8.1	24.7	1.48
I2	28 Nov 2022	17	15.52	90.02	8.1	33.45	8.1	24.7	1.51
I2	28 Nov 2022	18	15.52	90.12	8.1	33.45	8.1	24.7	1.51
I2	28 Nov 2022	19	15.50	90.08	8.0	33.45	8.1	24.7	1.50
I2	28 Nov 2022	20	15.47	90.14	7.9	33.45	8.1	24.7	1.47
I2	28 Nov 2022	21	15.29	90.26	7.9	33.44	8.1	24.7	1.44
I2	28 Nov 2022	22	15.13	90.53	7.9	33.43	8.1	24.7	1.50
I2	28 Nov 2022	23	14.89	90.68	7.7	33.41	8.1	24.8	1.59
I2	28 Nov 2022	24	14.74	90.64	7.6	33.40	8.1	24.8	1.76
I2	28 Nov 2022	25	14.65	90.67	7.4	33.40	8.1	24.8	2.02
I2	28 Nov 2022	26	14.53	90.92	7.3	33.40	8.1	24.8	1.67
I2	28 Nov 2022	27	14.40	91.15	7.2	33.40	8.1	24.9	1.51
I2	28 Nov 2022	28	14.23	91.05	7.0	33.40	8.0	24.9	1.52
I2	28 Nov 2022	29	14.21	90.67	6.8	33.40	8.0	24.9	1.42
I2	28 Nov 2022	30	13.97	89.57	6.6	33.39	8.0	24.9	1.62
I2	28 Nov 2022	31	13.83	87.85	6.4	33.39	8.0	25.0	1.60
I2	28 Nov 2022	32	13.79	87.07	6.3	33.39	8.0	25.0	1.65
I20	30 Nov 2022	1	15.91	90.35	7.8	33.48	8.1	24.6	1.02
I20	30 Nov 2022	2	15.90	90.26	7.8	33.48	8.1	24.6	1.04
I20	30 Nov 2022	3	15.90	89.99	7.8	33.48	8.1	24.6	1.05
I20	30 Nov 2022	4	15.90	90.48	7.8	33.48	8.1	24.6	1.05
I20	30 Nov 2022	5	15.88	90.48	7.8	33.48	8.1	24.6	1.11
I20	30 Nov 2022	6	15.87	90.48	7.8	33.48	8.1	24.6	1.15
I20	30 Nov 2022	7	15.82	90.42	7.7	33.47	8.1	24.6	1.15
I20	30 Nov 2022	8	15.75	90.46	7.8	33.47	8.1	24.6	1.11
I20	30 Nov 2022	9	15.74	90.65	7.8	33.47	8.1	24.6	1.14
I20	30 Nov 2022	10	15.72	90.49	7.8	33.47	8.1	24.6	1.13
I20	30 Nov 2022	11	15.69	90.59	7.7	33.47	8.1	24.6	1.16
I20	30 Nov 2022	12	15.67	90.44	7.8	33.47	8.1	24.6	1.10
I20	30 Nov 2022	13	15.64	90.65	7.8	33.46	8.1	24.6	1.18
I20	30 Nov 2022	14	15.49	90.55	7.8	33.46	8.1	24.7	1.16
I20	30 Nov 2022	15	15.39	90.62	7.8	33.45	8.1	24.7	1.24
I20	30 Nov 2022	16	15.17	90.74	7.9	33.44	8.1	24.7	1.37
I20	30 Nov 2022	17	15.08	90.79	7.9	33.43	8.1	24.7	1.38
I20	30 Nov 2022	18	15.07	90.81	7.9	33.43	8.1	24.7	1.30
I20	30 Nov 2022	19	15.06	91.12	7.9	33.43	8.1	24.8	1.26
I20	30 Nov 2022	20	15.04	91.00	7.9	33.43	8.1	24.8	1.23
I20	30 Nov 2022	21	14.99	91.09	7.8	33.43	8.1	24.8	1.20
I20	30 Nov 2022	22	14.98	90.81	7.8	33.43	8.1	24.8	1.42
I20	30 Nov 2022	23	14.97	90.78	7.8	33.43	8.1	24.8	1.35
I20	30 Nov 2022	24	14.93	90.96	7.6	33.43	8.1	24.8	1.27
I20	30 Nov 2022	25	14.85	90.92	7.5	33.43	8.1	24.8	1.64
I20	30 Nov 2022	26	14.76	90.59	7.3	33.43	8.1	24.8	1.60
I20	30 Nov 2022	27	14.63	89.89	7.2	33.43	8.1	24.8	1.35
I20	30 Nov 2022	28	14.52	89.04	7.1	33.42	8.1	24.9	1.50
I20	30 Nov 2022	29	14.47	88.73	7.1	33.42	8.1	24.9	1.54

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I20	30 Nov 2022	30	14.42	88.80	7.1	33.42	8.1	24.9	1.47
I20	30 Nov 2022	31	14.34	89.21	7.0	33.41	8.1	24.9	1.51
I20	30 Nov 2022	32	14.17	89.86	6.8	33.41	8.0	24.9	1.60
I20	30 Nov 2022	33	14.00	90.36	6.7	33.41	8.0	25.0	1.31
I20	30 Nov 2022	34	13.85	90.83	6.5	33.40	8.0	25.0	1.19
I20	30 Nov 2022	35	13.82	91.09	6.5	33.40	8.0	25.0	1.14
I20	30 Nov 2022	36	13.81	91.28	6.4	33.40	8.0	25.0	1.15
I20	30 Nov 2022	37	13.77	91.20	6.4	33.40	8.0	25.0	1.08
I20	30 Nov 2022	38	13.73	91.26	6.3	33.40	8.0	25.0	1.08
I20	30 Nov 2022	39	13.71	91.18	6.3	33.40	8.0	25.0	1.21
I20	30 Nov 2022	40	13.69	90.85	6.3	33.40	8.0	25.0	1.10
I20	30 Nov 2022	41	13.66	90.74	6.2	33.40	8.0	25.0	1.08
I20	30 Nov 2022	42	13.62	90.72	6.1	33.40	8.0	25.0	1.12
I20	30 Nov 2022	43	13.59	90.18	6.0	33.40	8.0	25.0	1.12
I20	30 Nov 2022	44	13.58	89.84	6.0	33.40	8.0	25.0	1.17
I20	30 Nov 2022	45	13.57	89.74	5.9	33.40	8.0	25.0	1.11
I20	30 Nov 2022	46	13.56	89.66	5.9	33.40	8.0	25.0	1.10
I20	30 Nov 2022	47	13.56	89.73	5.9	33.40	8.0	25.0	1.14
I20	30 Nov 2022	48	13.55	89.68	5.9	33.40	8.0	25.0	1.17
I20	30 Nov 2022	49	13.53	89.36	5.8	33.41	8.0	25.1	1.07
I20	30 Nov 2022	50	13.51	88.86	5.8	33.41	7.9	25.1	1.06
I20	30 Nov 2022	51	13.38	88.77	5.6	33.41	7.9	25.1	1.09
I20	30 Nov 2022	52	13.30	88.83	5.5	33.41	7.9	25.1	1.04
I20	30 Nov 2022	53	13.20	88.93	5.5	33.41	7.9	25.1	1.06
I20	30 Nov 2022	54	13.15	89.18	5.4	33.42	7.9	25.1	1.10
I20	30 Nov 2022	55	13.11	89.38	5.4	33.42	7.9	25.1	1.00
I21	30 Nov 2022	1	14.98	89.35	7.8	33.43	8.1	24.8	1.44
I21	30 Nov 2022	2	14.97	89.41	7.8	33.43	8.1	24.8	1.56
I21	30 Nov 2022	3	14.97	89.52	7.8	33.43	8.1	24.8	1.53
I21	30 Nov 2022	4	14.97	89.58	7.8	33.43	8.1	24.8	1.82
I21	30 Nov 2022	5	14.97	89.61	7.8	33.42	8.1	24.8	1.63
I21	30 Nov 2022	6	14.97	89.49	7.8	33.42	8.1	24.8	1.57
I21	30 Nov 2022	7	14.95	89.70	7.8	33.42	8.1	24.8	1.36
I21	30 Nov 2022	8	14.95	89.60	7.8	33.42	8.1	24.8	1.53
I21	30 Nov 2022	9	14.96	89.61	7.8	33.42	8.1	24.8	1.50
I21	30 Nov 2022	10	14.95	89.62	7.8	33.42	8.1	24.8	1.44
I21	30 Nov 2022	11	14.95	89.82	7.8	33.42	8.1	24.8	1.56
I21	30 Nov 2022	12	14.94	89.96	7.8	33.42	8.1	24.8	1.53
I21	30 Nov 2022	13	14.94	89.92	7.7	33.42	8.1	24.8	1.47
I21	30 Nov 2022	14	14.93	89.78	7.7	33.42	8.1	24.8	1.50
I21	30 Nov 2022	15	14.92	89.74	7.7	33.42	8.1	24.8	1.57
I21	30 Nov 2022	16	14.91	89.79	7.7	33.42	8.1	24.8	1.49
I21	30 Nov 2022	17	14.89	90.00	7.6	33.42	8.1	24.8	1.46
I21	30 Nov 2022	18	14.84	89.76	7.6	33.42	8.1	24.8	1.63
I21	30 Nov 2022	19	14.77	89.37	7.5	33.42	8.1	24.8	1.56
I21	30 Nov 2022	20	14.64	89.66	7.3	33.42	8.1	24.8	1.41
I21	30 Nov 2022	21	14.38	89.03	7.0	33.41	8.1	24.9	1.56
I21	30 Nov 2022	22	14.28	88.70	6.9	33.41	8.0	24.9	1.48
I21	30 Nov 2022	23	14.22	89.01	6.8	33.41	8.0	24.9	1.45
I21	30 Nov 2022	24	14.08	89.18	6.6	33.40	8.0	24.9	1.63
I21	30 Nov 2022	25	14.00	89.71	6.5	33.40	8.0	25.0	1.68
I21	30 Nov 2022	26	13.96	89.52	6.4	33.40	8.0	25.0	1.45
I21	30 Nov 2022	27	13.95	89.44	6.4	33.40	8.0	25.0	1.36
I21	30 Nov 2022	28	13.95	89.29	6.4	33.40	8.0	25.0	1.54
I21	30 Nov 2022	29	13.94	89.24	6.4	33.40	8.0	25.0	1.48
I21	30 Nov 2022	30	13.93	89.13	6.4	33.40	8.0	25.0	1.39
I21	30 Nov 2022	31	13.92	89.01	6.3	33.41	8.0	25.0	1.49
I21	30 Nov 2022	32	13.91	88.71	6.3	33.41	8.0	25.0	1.50
I21	30 Nov 2022	33	13.89	88.29	6.2	33.41	8.0	25.0	1.55
I21	30 Nov 2022	34	13.83	88.14	6.1	33.41	8.0	25.0	1.42

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I21	30 Nov 2022	35	13.74	87.71	6.0	33.41	8.0	25.0	1.35
I21	30 Nov 2022	36	13.73	87.66	6.0	33.41	8.0	25.0	1.29
I21	30 Nov 2022	37	13.71	87.96	5.9	33.41	8.0	25.0	1.28
I21	30 Nov 2022	38	13.67	87.92	5.9	33.41	8.0	25.0	1.25
I21	30 Nov 2022	39	13.58	88.15	5.8	33.41	8.0	25.0	1.21
I21	30 Nov 2022	40	13.54	88.23	5.8	33.41	7.9	25.1	1.22
I21	30 Nov 2022	41	13.52	88.39	5.8	33.41	7.9	25.1	1.20
I22	30 Nov 2022	1	15.20	89.37	7.8	33.42	8.1	24.7	1.36
I22	30 Nov 2022	2	15.20	89.35	7.8	33.43	8.1	24.7	1.39
I22	30 Nov 2022	3	15.20	89.57	7.8	33.43	8.1	24.7	1.45
I22	30 Nov 2022	4	15.21	89.46	7.8	33.43	8.1	24.7	1.49
I22	30 Nov 2022	5	15.20	89.66	7.9	33.44	8.1	24.7	1.46
I22	30 Nov 2022	6	15.20	89.94	7.9	33.44	8.1	24.7	1.49
I22	30 Nov 2022	7	15.18	90.23	7.8	33.44	8.1	24.7	1.62
I22	30 Nov 2022	8	15.08	90.56	7.8	33.41	8.1	24.7	1.66
I22	30 Nov 2022	9	14.99	90.06	7.7	33.40	8.1	24.7	1.65
I22	30 Nov 2022	10	14.93	89.62	7.6	33.41	8.1	24.8	1.64
I22	30 Nov 2022	11	14.88	90.18	7.7	33.41	8.1	24.8	1.80
I22	30 Nov 2022	12	14.86	90.41	7.6	33.41	8.1	24.8	1.77
I22	30 Nov 2022	13	14.80	90.77	7.6	33.41	8.1	24.8	1.88
I22	30 Nov 2022	14	14.71	90.87	7.5	33.41	8.1	24.8	1.72
I22	30 Nov 2022	15	14.60	90.94	7.4	33.41	8.1	24.8	1.65
I22	30 Nov 2022	16	14.55	90.61	7.2	33.41	8.1	24.8	1.67
I22	30 Nov 2022	17	14.45	90.97	7.1	33.40	8.1	24.9	1.76
I22	30 Nov 2022	18	14.33	90.61	6.9	33.40	8.1	24.9	1.86
I22	30 Nov 2022	19	14.21	88.58	6.7	33.40	8.0	24.9	1.98
I22	30 Nov 2022	20	14.19	86.97	6.5	33.40	8.0	24.9	2.12
I22	30 Nov 2022	21	14.16	85.51	6.5	33.40	8.0	24.9	2.20
I22	30 Nov 2022	22	14.11	83.80	6.5	33.40	8.0	24.9	2.27
I22	30 Nov 2022	23	14.07	84.49	6.5	33.40	8.0	24.9	2.76
I22	30 Nov 2022	24	14.04	84.72	6.4	33.40	8.0	24.9	2.90
I22	30 Nov 2022	25	14.03	83.43	6.4	33.40	8.0	24.9	2.46
I22	30 Nov 2022	26	14.03	81.61	6.3	33.40	8.0	24.9	2.21
I22	30 Nov 2022	27	14.03	75.64	6.3	33.40	8.0	24.9	2.32
I22	30 Nov 2022	28	14.03	74.43	6.3	33.40	8.0	24.9	2.49
I23	30 Nov 2022	1	15.44	90.59	8.0	33.46	8.1	24.7	1.18
I23	30 Nov 2022	2	15.45	90.27	8.0	33.46	8.1	24.7	1.16
I23	30 Nov 2022	3	15.45	90.55	8.0	33.46	8.1	24.7	1.23
I23	30 Nov 2022	4	15.45	90.37	8.0	33.46	8.1	24.7	1.26
I23	30 Nov 2022	5	15.44	90.51	7.9	33.46	8.1	24.7	1.21
I23	30 Nov 2022	6	15.44	90.52	7.9	33.46	8.1	24.7	1.25
I23	30 Nov 2022	7	15.44	90.70	7.9	33.46	8.1	24.7	1.30
I23	30 Nov 2022	8	15.44	90.74	8.0	33.46	8.1	24.7	1.40
I23	30 Nov 2022	9	15.44	90.83	8.0	33.46	8.1	24.7	1.35
I23	30 Nov 2022	10	15.44	90.64	8.0	33.45	8.1	24.7	1.43
I23	30 Nov 2022	11	15.42	90.75	8.0	33.45	8.1	24.7	1.36
I23	30 Nov 2022	12	15.42	90.82	8.0	33.45	8.1	24.7	1.32
I23	30 Nov 2022	13	15.42	90.97	8.0	33.45	8.1	24.7	1.25
I23	30 Nov 2022	14	15.42	90.83	8.0	33.45	8.1	24.7	1.33
I23	30 Nov 2022	15	15.41	90.78	7.9	33.45	8.1	24.7	1.23
I23	30 Nov 2022	16	15.38	90.83	7.9	33.45	8.1	24.7	1.23
I23	30 Nov 2022	17	15.33	90.77	7.9	33.45	8.1	24.7	1.25
I23	30 Nov 2022	18	15.05	90.77	7.7	33.43	8.1	24.8	1.61
I23	30 Nov 2022	19	14.90	86.48	7.5	33.43	8.1	24.8	1.62
I23	30 Nov 2022	20	14.89	81.17	7.5	33.43	8.1	24.8	1.75
I23	30 Nov 2022	21	14.89	78.74	7.6	33.43	8.1	24.8	1.70
I27	30 Nov 2022	1	15.06	89.69	7.9	33.42	8.1	24.7	1.42
I27	30 Nov 2022	2	15.06	89.72	7.8	33.42	8.1	24.7	1.42

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I27	30 Nov 2022	3	15.06	89.72	7.8	33.42	8.1	24.7	1.60
I27	30 Nov 2022	4	15.06	89.52	7.8	33.42	8.1	24.7	1.73
I27	30 Nov 2022	5	15.04	89.70	7.8	33.43	8.1	24.8	1.52
I27	30 Nov 2022	6	15.02	89.72	7.8	33.43	8.1	24.8	1.59
I27	30 Nov 2022	7	14.93	90.09	7.8	33.42	8.1	24.8	1.49
I27	30 Nov 2022	8	14.86	90.58	7.7	33.42	8.1	24.8	1.57
I27	30 Nov 2022	9	14.72	90.58	7.5	33.41	8.1	24.8	1.60
I27	30 Nov 2022	10	14.61	90.53	7.3	33.41	8.1	24.8	1.58
I27	30 Nov 2022	11	14.58	90.12	7.2	33.41	8.1	24.8	1.62
I27	30 Nov 2022	12	14.47	88.51	7.0	33.41	8.1	24.9	1.74
I27	30 Nov 2022	13	14.44	84.77	6.8	33.41	8.0	24.9	1.92
I27	30 Nov 2022	14	14.44	82.36	6.8	33.41	8.0	24.9	2.18
I27	30 Nov 2022	15	14.43	82.26	6.8	33.41	8.0	24.9	2.24
I27	30 Nov 2022	16	14.43	82.34	6.7	33.41	8.0	24.9	2.15
I27	30 Nov 2022	17	14.43	82.13	6.7	33.41	8.0	24.9	2.30
I27	30 Nov 2022	18	14.43	82.05	6.7	33.41	8.0	24.9	2.34
I27	30 Nov 2022	19	14.43	81.92	6.7	33.42	8.0	24.9	2.28
I27	30 Nov 2022	20	14.43	81.63	6.7	33.42	8.0	24.9	2.33
I27	30 Nov 2022	21	14.41	81.68	6.7	33.42	8.0	24.9	2.45
I27	30 Nov 2022	22	14.40	80.71	6.6	33.41	8.0	24.9	2.24
I27	30 Nov 2022	23	14.27	79.76	6.5	33.41	8.0	24.9	2.20
I27	30 Nov 2022	24	14.22	77.97	6.3	33.41	8.0	24.9	2.36
I27	30 Nov 2022	25	14.22	76.55	6.3	33.41	8.0	24.9	2.20
I27	30 Nov 2022	26	14.21	76.47	6.3	33.41	8.0	24.9	2.19
I27	30 Nov 2022	27	14.19	76.79	6.2	33.41	8.0	24.9	2.52
I27	30 Nov 2022	28	14.18	76.18	6.2	33.41	8.0	24.9	2.54
I28	29 Nov 2022	1	15.97	89.43	7.8	33.48	8.1	24.6	0.95
I28	29 Nov 2022	2	15.96	89.96	7.8	33.48	8.1	24.6	0.96
I28	29 Nov 2022	3	15.94	89.85	7.8	33.48	8.1	24.6	1.07
I28	29 Nov 2022	4	15.93	89.86	7.8	33.48	8.1	24.6	1.07
I28	29 Nov 2022	5	15.93	89.88	7.8	33.48	8.1	24.6	1.06
I28	29 Nov 2022	6	15.94	90.01	7.8	33.48	8.1	24.6	1.07
I28	29 Nov 2022	7	15.80	90.05	7.8	33.47	8.1	24.6	1.11
I28	29 Nov 2022	8	15.59	90.25	7.8	33.46	8.1	24.7	1.12
I28	29 Nov 2022	9	15.46	90.27	7.8	33.46	8.1	24.7	1.12
I28	29 Nov 2022	10	15.38	90.47	7.8	33.45	8.1	24.7	1.12
I28	29 Nov 2022	11	15.29	90.41	7.8	33.45	8.1	24.7	1.20
I28	29 Nov 2022	12	15.19	90.62	7.8	33.44	8.1	24.7	1.10
I28	29 Nov 2022	13	15.14	90.73	7.8	33.44	8.1	24.7	1.18
I28	29 Nov 2022	14	15.09	90.76	7.8	33.44	8.1	24.7	1.23
I28	29 Nov 2022	15	15.04	90.83	7.8	33.44	8.1	24.8	1.18
I28	29 Nov 2022	16	15.01	90.73	7.8	33.44	8.1	24.8	1.20
I28	29 Nov 2022	17	14.97	90.67	7.8	33.43	8.1	24.8	1.19
I28	29 Nov 2022	18	14.95	90.58	7.7	33.43	8.1	24.8	1.29
I28	29 Nov 2022	19	14.94	90.62	7.7	33.43	8.1	24.8	1.64
I28	29 Nov 2022	20	14.92	90.84	7.8	33.43	8.1	24.8	1.37
I28	29 Nov 2022	21	14.86	90.59	7.7	33.43	8.1	24.8	1.22
I28	29 Nov 2022	22	14.82	90.33	7.6	33.43	8.1	24.8	1.18
I28	29 Nov 2022	23	14.80	90.39	7.6	33.42	8.1	24.8	1.19
I28	29 Nov 2022	24	14.80	90.57	7.6	33.43	8.1	24.8	1.33
I28	29 Nov 2022	25	14.79	90.55	7.6	33.43	8.1	24.8	1.44
I28	29 Nov 2022	26	14.76	90.35	7.5	33.43	8.1	24.8	1.40
I28	29 Nov 2022	27	14.73	90.27	7.5	33.43	8.1	24.8	1.44
I28	29 Nov 2022	28	14.74	90.20	7.4	33.43	8.1	24.8	1.31
I28	29 Nov 2022	29	14.67	90.34	7.3	33.43	8.1	24.8	1.31
I28	29 Nov 2022	30	14.62	90.16	7.3	33.43	8.1	24.8	1.25
I28	29 Nov 2022	31	14.62	90.36	7.2	33.43	8.1	24.8	1.31
I28	29 Nov 2022	32	14.60	90.02	7.2	33.43	8.1	24.8	1.35
I28	29 Nov 2022	33	14.57	90.25	7.2	33.43	8.1	24.9	1.34
I28	29 Nov 2022	34	14.54	90.30	7.2	33.42	8.1	24.9	1.27

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I28	29 Nov 2022	35	14.45	90.18	7.0	33.42	8.1	24.9	1.25
I28	29 Nov 2022	36	14.29	89.87	6.8	33.42	8.0	24.9	1.34
I28	29 Nov 2022	37	14.24	89.01	6.7	33.41	8.0	24.9	1.43
I28	29 Nov 2022	38	14.29	88.27	6.7	33.41	8.0	24.9	1.45
I28	29 Nov 2022	39	14.10	88.18	6.5	33.41	8.0	24.9	1.42
I28	29 Nov 2022	40	14.04	88.30	6.4	33.41	8.0	25.0	1.26
I28	29 Nov 2022	41	13.89	88.00	6.3	33.41	8.0	25.0	1.21
I28	29 Nov 2022	42	13.76	89.06	6.2	33.41	8.0	25.0	1.14
I28	29 Nov 2022	43	13.72	89.52	6.1	33.41	8.0	25.0	1.14
I28	29 Nov 2022	44	13.51	89.63	6.0	33.41	8.0	25.1	1.07
I28	29 Nov 2022	45	13.47	89.54	6.0	33.41	8.0	25.1	1.01
I28	29 Nov 2022	46	13.40	89.42	5.9	33.41	8.0	25.1	0.97
I28	29 Nov 2022	47	13.39	89.36	5.9	33.41	8.0	25.1	0.99
I28	29 Nov 2022	48	13.28	89.20	5.8	33.42	8.0	25.1	0.98
I28	29 Nov 2022	49	13.20	89.04	5.7	33.42	7.9	25.1	0.95
I28	29 Nov 2022	50	13.14	88.91	5.6	33.42	7.9	25.1	0.99
I28	29 Nov 2022	51	13.08	88.96	5.6	33.42	7.9	25.2	0.91
I28	29 Nov 2022	52	13.06	88.92	5.5	33.42	7.9	25.2	0.93
I28	29 Nov 2022	53	13.02	88.90	5.5	33.43	7.9	25.2	0.88
I28	29 Nov 2022	54	12.87	88.84	5.4	33.43	7.9	25.2	0.87
I28	29 Nov 2022	55	12.77	88.77	5.3	33.43	7.9	25.2	0.86
I29	29 Nov 2022	1	15.00	88.00	7.8	33.46	8.1	24.8	1.16
I29	29 Nov 2022	2	14.99	87.90	7.8	33.46	8.1	24.8	1.15
I29	29 Nov 2022	3	14.99	88.45	7.8	33.46	8.1	24.8	1.07
I29	29 Nov 2022	4	14.99	89.06	7.8	33.46	8.1	24.8	0.98
I29	29 Nov 2022	5	14.99	89.03	7.8	33.45	8.1	24.8	1.14
I29	29 Nov 2022	6	14.98	89.04	7.8	33.46	8.1	24.8	1.13
I29	29 Nov 2022	7	14.97	88.84	7.8	33.46	8.1	24.8	1.27
I29	29 Nov 2022	8	14.97	88.74	7.8	33.46	8.1	24.8	1.28
I29	29 Nov 2022	9	14.97	88.74	7.8	33.46	8.1	24.8	1.26
I29	29 Nov 2022	10	14.97	88.77	7.7	33.46	8.1	24.8	1.27
I29	29 Nov 2022	11	14.97	88.59	7.7	33.46	8.1	24.8	1.35
I29	29 Nov 2022	12	14.97	88.96	7.7	33.46	8.1	24.8	1.47
I29	29 Nov 2022	13	14.97	88.98	7.8	33.46	8.1	24.8	1.84
I29	29 Nov 2022	14	14.97	88.96	7.8	33.46	8.1	24.8	1.58
I29	29 Nov 2022	15	14.97	88.91	7.7	33.46	8.1	24.8	1.51
I29	29 Nov 2022	16	14.97	88.84	7.8	33.46	8.1	24.8	1.48
I29	29 Nov 2022	17	14.97	89.06	7.8	33.46	8.1	24.8	1.54
I29	29 Nov 2022	18	14.97	88.92	7.8	33.46	8.1	24.8	1.49
I29	29 Nov 2022	19	14.97	89.13	7.8	33.46	8.1	24.8	1.53
I29	29 Nov 2022	20	14.96	89.19	7.7	33.46	8.1	24.8	1.38
I29	29 Nov 2022	21	14.96	89.10	7.7	33.46	8.1	24.8	1.35
I29	29 Nov 2022	22	14.96	89.17	7.7	33.46	8.1	24.8	1.43
I29	29 Nov 2022	23	14.96	89.10	7.6	33.46	8.1	24.8	1.35
I29	29 Nov 2022	24	14.94	89.01	7.6	33.46	8.1	24.8	1.38
I29	29 Nov 2022	25	14.91	88.85	7.5	33.45	8.1	24.8	1.50
I29	29 Nov 2022	26	14.86	88.53	7.3	33.45	8.1	24.8	1.34
I29	29 Nov 2022	27	14.86	88.35	7.2	33.45	8.1	24.8	1.31
I29	29 Nov 2022	28	14.61	86.74	6.7	33.44	8.0	24.9	1.44
I29	29 Nov 2022	29	14.49	85.28	6.5	33.43	8.0	24.9	1.30
I29	29 Nov 2022	30	14.36	85.02	6.5	33.43	8.0	24.9	1.26
I29	29 Nov 2022	31	14.32	84.83	6.5	33.42	8.0	24.9	1.27
I29	29 Nov 2022	32	14.30	85.21	6.5	33.42	8.0	24.9	1.23
I29	29 Nov 2022	33	14.21	84.80	6.4	33.42	8.0	24.9	1.29
I29	29 Nov 2022	34	14.20	84.62	6.4	33.42	8.0	24.9	1.21
I29	29 Nov 2022	35	14.18	84.67	6.3	33.42	8.0	24.9	1.26
I29	29 Nov 2022	36	13.91	85.57	6.2	33.42	8.0	25.0	1.23
I29	29 Nov 2022	37	13.80	87.95	6.2	33.41	8.0	25.0	1.14
I29	29 Nov 2022	38	13.62	88.00	6.1	33.41	8.0	25.0	1.15

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I3	28 Nov 2022	1	15.61	90.21	8.0	33.46	8.1	24.7	0.95
I3	28 Nov 2022	2	15.58	90.12	8.0	33.46	8.1	24.7	1.02
I3	28 Nov 2022	3	15.57	90.14	8.0	33.46	8.1	24.7	1.03
I3	28 Nov 2022	4	15.56	90.23	8.0	33.46	8.1	24.7	1.09
I3	28 Nov 2022	5	15.54	90.19	8.0	33.46	8.1	24.7	1.24
I3	28 Nov 2022	6	15.54	90.19	8.0	33.45	8.1	24.7	1.21
I3	28 Nov 2022	7	15.52	90.06	8.0	33.45	8.1	24.7	1.21
I3	28 Nov 2022	8	15.48	90.11	8.0	33.45	8.1	24.7	1.32
I3	28 Nov 2022	9	15.49	89.42	8.0	33.45	8.1	24.7	1.29
I3	28 Nov 2022	10	15.41	89.82	8.0	33.45	8.1	24.7	1.30
I3	28 Nov 2022	11	15.39	90.39	8.0	33.45	8.1	24.7	1.44
I3	28 Nov 2022	12	15.21	90.41	8.0	33.44	8.1	24.7	1.39
I3	28 Nov 2022	13	15.19	90.16	8.1	33.44	8.1	24.7	1.46
I3	28 Nov 2022	14	15.15	90.14	8.1	33.44	8.1	24.7	1.60
I3	28 Nov 2022	15	15.13	90.25	8.1	33.44	8.1	24.7	1.68
I3	28 Nov 2022	16	15.12	90.09	8.2	33.44	8.1	24.7	1.93
I3	28 Nov 2022	17	15.07	89.99	8.2	33.44	8.1	24.8	1.63
I3	28 Nov 2022	18	15.05	89.59	8.1	33.44	8.1	24.8	2.05
I3	28 Nov 2022	19	15.00	89.16	8.0	33.44	8.1	24.8	2.10
I3	28 Nov 2022	20	14.96	89.31	8.0	33.44	8.1	24.8	2.19
I3	28 Nov 2022	21	14.91	89.27	7.9	33.43	8.1	24.8	2.35
I3	28 Nov 2022	22	14.83	89.07	7.8	33.43	8.1	24.8	2.51
I3	28 Nov 2022	23	14.68	88.12	7.5	33.42	8.1	24.8	2.71
I3	28 Nov 2022	24	14.34	85.20	7.0	33.40	8.1	24.9	2.67
I3	28 Nov 2022	25	14.05	80.91	6.6	33.40	8.0	24.9	2.80
I3	28 Nov 2022	26	14.02	78.89	6.5	33.39	8.0	24.9	2.87
I3	28 Nov 2022	27	13.99	77.25	6.4	33.39	8.0	24.9	3.19
I30	29 Nov 2022	1	15.00	80.29	7.9	33.45	8.1	24.8	1.34
I30	29 Nov 2022	2	15.00	81.08	7.8	33.45	8.1	24.8	1.43
I30	29 Nov 2022	3	14.99	84.27	7.8	33.45	8.1	24.8	1.44
I30	29 Nov 2022	4	14.99	84.65	7.8	33.45	8.1	24.8	1.58
I30	29 Nov 2022	5	14.98	84.61	7.8	33.45	8.1	24.8	1.56
I30	29 Nov 2022	6	14.97	84.29	7.8	33.45	8.1	24.8	1.88
I30	29 Nov 2022	7	14.97	84.07	7.8	33.45	8.1	24.8	2.09
I30	29 Nov 2022	8	14.97	84.37	7.8	33.45	8.1	24.8	2.05
I30	29 Nov 2022	9	14.96	84.34	7.8	33.45	8.1	24.8	2.28
I30	29 Nov 2022	10	14.96	84.33	7.8	33.45	8.1	24.8	2.29
I30	29 Nov 2022	11	14.96	84.65	7.8	33.45	8.1	24.8	2.16
I30	29 Nov 2022	12	14.96	84.22	7.7	33.45	8.1	24.8	2.02
I30	29 Nov 2022	13	14.96	84.55	7.8	33.45	8.1	24.8	2.10
I30	29 Nov 2022	14	14.95	84.58	7.7	33.45	8.1	24.8	2.10
I30	29 Nov 2022	15	14.93	84.75	7.7	33.45	8.1	24.8	2.06
I30	29 Nov 2022	16	14.92	84.95	7.7	33.45	8.1	24.8	2.04
I30	29 Nov 2022	17	14.91	85.04	7.7	33.44	8.1	24.8	1.94
I30	29 Nov 2022	18	14.90	85.21	7.7	33.44	8.1	24.8	1.99
I30	29 Nov 2022	19	14.86	84.79	7.6	33.44	8.1	24.8	1.95
I30	29 Nov 2022	20	14.84	84.50	7.4	33.44	8.1	24.8	1.77
I30	29 Nov 2022	21	14.81	83.98	7.4	33.44	8.1	24.8	1.67
I30	29 Nov 2022	22	14.76	83.69	7.3	33.43	8.1	24.8	1.54
I30	29 Nov 2022	23	14.74	82.06	7.2	33.43	8.1	24.8	1.56
I30	29 Nov 2022	24	14.71	81.38	7.0	33.43	8.1	24.8	1.56
I30	29 Nov 2022	25	14.66	80.54	6.8	33.43	8.0	24.8	1.52
I30	29 Nov 2022	26	14.58	77.70	6.4	33.43	8.0	24.8	1.51
I30	29 Nov 2022	27	14.54	74.80	6.2	33.42	8.0	24.9	1.45
I30	29 Nov 2022	28	14.54	71.81	6.2	33.42	8.0	24.9	1.39
I31	29 Nov 2022	1	15.00	85.16	7.8	33.44	8.1	24.8	1.28
I31	29 Nov 2022	2	15.00	85.67	7.8	33.44	8.1	24.8	1.51
I31	29 Nov 2022	3	15.00	86.08	7.8	33.44	8.1	24.8	1.44
I31	29 Nov 2022	4	15.00	86.09	7.8	33.44	8.1	24.8	1.64

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I31	29 Nov 2022	5	15.00	85.98	7.8	33.44	8.1	24.8	1.63
I31	29 Nov 2022	6	15.00	86.16	7.8	33.44	8.1	24.8	1.68
I31	29 Nov 2022	7	15.00	86.08	7.9	33.44	8.1	24.8	1.49
I31	29 Nov 2022	8	15.00	86.15	7.8	33.44	8.1	24.8	1.68
I31	29 Nov 2022	9	15.00	85.76	7.8	33.44	8.1	24.8	1.63
I31	29 Nov 2022	10	15.00	85.91	7.8	33.44	8.1	24.8	1.70
I31	29 Nov 2022	11	15.00	85.95	7.9	33.44	8.1	24.8	1.79
I31	29 Nov 2022	12	15.00	85.99	7.8	33.44	8.1	24.8	1.62
I31	29 Nov 2022	13	15.00	85.71	7.8	33.44	8.1	24.8	1.57
I31	29 Nov 2022	14	15.00	85.82	7.9	33.44	8.1	24.8	1.74
I31	29 Nov 2022	15	15.00	85.90	7.8	33.44	8.1	24.8	1.74
I31	29 Nov 2022	16	14.99	85.77	7.8	33.44	8.1	24.8	1.62
I31	29 Nov 2022	17	14.99	85.08	7.8	33.44	8.1	24.8	1.57
I31	29 Nov 2022	18	14.99	85.46	7.8	33.44	8.1	24.8	1.55
I31	29 Nov 2022	19	14.97	80.70	7.8	33.44	8.1	24.8	1.70
I33	29 Nov 2022	1	15.17	81.25	7.3	33.48	8.1	24.8	1.70
I33	29 Nov 2022	2	15.17	81.79	7.3	33.48	8.1	24.8	1.85
I33	29 Nov 2022	3	15.17	82.30	7.3	33.48	8.1	24.8	2.05
I33	29 Nov 2022	4	15.17	82.53	7.3	33.48	8.1	24.8	2.09
I33	29 Nov 2022	5	15.16	82.34	7.3	33.48	8.1	24.8	2.22
I33	29 Nov 2022	6	15.14	82.00	7.2	33.48	8.1	24.8	2.23
I33	29 Nov 2022	7	15.14	81.18	7.2	33.48	8.1	24.8	2.26
I33	29 Nov 2022	8	15.11	80.80	7.1	33.48	8.0	24.8	2.28
I33	29 Nov 2022	9	15.10	80.21	7.0	33.48	8.0	24.8	2.19
I33	29 Nov 2022	10	15.10	80.14	7.0	33.48	8.0	24.8	2.28
I33	29 Nov 2022	11	15.09	80.01	7.0	33.48	8.0	24.8	2.28
I33	29 Nov 2022	12	15.09	79.82	7.0	33.48	8.0	24.8	2.30
I33	29 Nov 2022	13	15.08	79.97	7.0	33.48	8.0	24.8	2.24
I33	29 Nov 2022	14	15.07	79.55	6.8	33.48	8.0	24.8	2.27
I33	29 Nov 2022	15	15.07	79.22	6.8	33.48	8.0	24.8	2.17
I33	29 Nov 2022	16	15.06	79.42	6.8	33.48	8.0	24.8	2.23
I33	29 Nov 2022	17	15.06	79.61	6.9	33.48	8.0	24.8	2.22
I33	29 Nov 2022	18	15.05	79.28	6.9	33.48	8.0	24.8	2.08
I33	29 Nov 2022	19	15.02	79.06	6.7	33.47	8.0	24.8	2.04
I33	29 Nov 2022	20	14.95	78.52	6.6	33.46	8.0	24.8	1.95
I33	29 Nov 2022	21	14.92	77.39	6.5	33.46	8.0	24.8	1.86
I33	29 Nov 2022	22	14.87	77.91	6.3	33.45	8.0	24.8	1.82
I33	29 Nov 2022	23	14.80	74.46	6.1	33.45	8.0	24.8	1.64
I33	29 Nov 2022	24	14.80	73.86	6.0	33.45	8.0	24.8	1.63
I33	29 Nov 2022	25	14.78	73.97	6.0	33.45	8.0	24.8	1.52
I33	29 Nov 2022	26	14.77	74.65	6.1	33.45	8.0	24.8	1.56
I33	29 Nov 2022	27	14.75	76.25	6.4	33.45	8.0	24.8	1.54
I33	29 Nov 2022	28	14.67	78.15	6.6	33.45	8.0	24.8	1.44
I33	29 Nov 2022	29	14.60	80.66	6.7	33.45	8.0	24.9	1.32
I33	29 Nov 2022	30	14.55	80.40	6.7	33.44	8.0	24.9	1.28
I34	29 Nov 2022	1	15.05	80.24	7.1	33.48	8.0	24.8	2.19
I34	29 Nov 2022	2	15.05	80.45	7.1	33.48	8.0	24.8	2.25
I34	29 Nov 2022	3	15.05	80.42	7.1	33.48	8.0	24.8	2.31
I34	29 Nov 2022	4	15.05	80.63	7.1	33.48	8.0	24.8	2.37
I34	29 Nov 2022	5	15.05	80.72	7.1	33.48	8.0	24.8	2.42
I34	29 Nov 2022	6	15.05	80.63	7.1	33.48	8.0	24.8	2.35
I34	29 Nov 2022	7	15.05	80.44	7.1	33.48	8.0	24.8	2.37
I34	29 Nov 2022	8	15.05	80.33	7.0	33.48	8.0	24.8	2.32
I34	29 Nov 2022	9	15.05	80.41	7.1	33.48	8.0	24.8	2.31
I34	29 Nov 2022	10	15.05	80.41	7.0	33.48	8.0	24.8	2.33
I34	29 Nov 2022	11	15.05	80.33	7.0	33.48	8.0	24.8	2.33
I34	29 Nov 2022	12	15.05	80.24	7.0	33.48	8.0	24.8	2.33
I34	29 Nov 2022	13	15.05	80.28	7.0	33.48	8.0	24.8	2.28
I34	29 Nov 2022	14	15.05	80.37	7.0	33.48	8.0	24.8	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	29 Nov 2022	15	15.04	79.70	7.0	33.48	8.0	24.8	2.14
I34	29 Nov 2022	16	15.04	79.25	7.0	33.48	8.0	24.8	2.14
I34	29 Nov 2022	17	15.02	76.10	6.8	33.48	8.0	24.8	2.10
I34	29 Nov 2022	18	15.02	70.07	6.8	33.48	8.0	24.8	2.00
I34	29 Nov 2022	19	15.01	67.97	6.8	33.48	8.0	24.8	1.97
I35	29 Nov 2022	1	15.15	76.66	8.0	33.48	8.1	24.8	3.10
I35	29 Nov 2022	2	15.15	76.66	8.0	33.48	8.1	24.8	3.08
I35	29 Nov 2022	3	15.14	76.44	8.0	33.48	8.1	24.8	3.48
I35	29 Nov 2022	4	15.14	76.26	8.0	33.48	8.1	24.8	3.52
I35	29 Nov 2022	5	15.14	76.27	7.9	33.48	8.1	24.8	3.53
I35	29 Nov 2022	6	15.14	76.28	7.9	33.48	8.1	24.8	3.58
I35	29 Nov 2022	7	15.13	76.29	7.9	33.48	8.1	24.8	3.41
I35	29 Nov 2022	8	15.12	76.54	7.9	33.48	8.1	24.8	3.46
I35	29 Nov 2022	9	15.12	76.25	7.9	33.48	8.1	24.8	3.47
I35	29 Nov 2022	10	15.12	76.23	7.9	33.48	8.1	24.8	3.22
I35	29 Nov 2022	11	15.12	76.30	8.0	33.48	8.1	24.8	3.29
I35	29 Nov 2022	12	15.12	76.45	7.9	33.48	8.1	24.8	3.41
I35	29 Nov 2022	13	15.12	76.19	7.9	33.48	8.1	24.8	3.10
I35	29 Nov 2022	14	15.12	76.08	7.9	33.48	8.1	24.8	3.13
I35	29 Nov 2022	15	15.11	76.36	7.9	33.48	8.1	24.8	3.07
I35	29 Nov 2022	16	15.11	76.68	7.9	33.48	8.1	24.8	2.82
I35	29 Nov 2022	17	15.11	76.22	7.8	33.48	8.1	24.8	2.55
I35	29 Nov 2022	18	15.11	74.57	7.8	33.48	8.1	24.8	2.30
I35	29 Nov 2022	19	15.11	73.89	7.8	33.48	8.1	24.8	2.19
I36	29 Nov 2022	1	15.10	69.31	8.0	33.45	8.1	24.8	2.54
I36	29 Nov 2022	2	15.09	69.45	8.0	33.45	8.1	24.8	2.61
I36	29 Nov 2022	3	15.09	69.80	7.9	33.45	8.1	24.8	2.64
I36	29 Nov 2022	4	15.09	70.18	7.9	33.45	8.1	24.8	2.77
I36	29 Nov 2022	5	15.09	70.22	7.9	33.45	8.1	24.8	2.73
I36	29 Nov 2022	6	15.09	70.02	7.9	33.45	8.1	24.8	2.78
I36	29 Nov 2022	7	15.09	69.82	7.9	33.45	8.1	24.8	2.70
I36	29 Nov 2022	8	15.09	69.52	7.9	33.45	8.1	24.8	2.61
I36	29 Nov 2022	9	15.09	69.69	7.9	33.45	8.1	24.8	2.59
I36	29 Nov 2022	10	15.09	69.40	7.9	33.45	8.1	24.8	2.61
I36	29 Nov 2022	11	15.09	68.48	7.8	33.45	8.1	24.8	2.53
I37	29 Nov 2022	1	15.06	78.71	7.3	33.48	8.0	24.8	2.20
I37	29 Nov 2022	2	15.06	78.52	7.3	33.48	8.0	24.8	2.33
I37	29 Nov 2022	3	15.06	78.30	7.3	33.48	8.0	24.8	2.41
I37	29 Nov 2022	4	15.06	78.59	7.3	33.48	8.0	24.8	2.48
I37	29 Nov 2022	5	15.06	78.43	7.3	33.48	8.0	24.8	2.46
I37	29 Nov 2022	6	15.06	78.14	7.2	33.48	8.0	24.8	2.41
I37	29 Nov 2022	7	15.06	77.73	7.2	33.48	8.0	24.8	2.44
I37	29 Nov 2022	8	15.06	77.81	7.2	33.48	8.0	24.8	2.42
I37	29 Nov 2022	9	15.06	77.94	7.2	33.48	8.0	24.8	2.43
I37	29 Nov 2022	10	15.06	78.20	7.2	33.48	8.0	24.8	2.40
I37	29 Nov 2022	11	15.06	78.00	7.2	33.48	8.0	24.8	2.46
I37	29 Nov 2022	12	15.06	78.01	7.3	33.48	8.0	24.8	2.48
I38	29 Nov 2022	1	15.37	64.34	8.4	33.49	8.1	24.7	9.93
I38	29 Nov 2022	2	15.37	65.24	8.4	33.49	8.1	24.7	10.19
I38	29 Nov 2022	3	15.36	65.51	8.4	33.49	8.1	24.7	10.31
I38	29 Nov 2022	4	15.32	64.83	8.3	33.49	8.1	24.7	11.64
I38	29 Nov 2022	5	15.31	64.42	8.3	33.49	8.1	24.7	11.65
I38	29 Nov 2022	6	15.30	65.53	8.2	33.49	8.1	24.7	11.46
I38	29 Nov 2022	7	15.29	66.29	8.2	33.49	8.1	24.7	11.14
I38	29 Nov 2022	8	15.28	67.63	8.1	33.49	8.1	24.7	10.69
I38	29 Nov 2022	9	15.28	67.87	8.0	33.49	8.1	24.7	8.71
I38	29 Nov 2022	10	15.27	68.83	8.0	33.49	8.1	24.8	6.87

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I38	29 Nov 2022	11	15.25	69.09	8.0	33.49	8.1	24.8	5.23
I4	28 Nov 2022	1	15.22	85.27	7.4	33.43	8.1	24.7	1.84
I4	28 Nov 2022	2	15.21	85.19	7.6	33.43	8.1	24.7	1.52
I4	28 Nov 2022	3	15.21	85.32	7.7	33.42	8.1	24.7	1.52
I4	28 Nov 2022	4	15.19	84.75	7.9	33.43	8.1	24.7	1.54
I4	28 Nov 2022	5	15.18	84.13	8.0	33.42	8.1	24.7	1.40
I4	28 Nov 2022	6	15.17	83.95	8.1	33.42	8.1	24.7	1.51
I4	28 Nov 2022	7	15.17	83.72	8.1	33.42	8.1	24.7	1.65
I4	28 Nov 2022	8	15.16	83.77	8.1	33.42	8.1	24.7	1.81
I4	28 Nov 2022	9	15.15	83.55	8.1	33.42	8.1	24.7	2.04
I4	28 Nov 2022	10	15.13	83.26	8.1	33.42	8.1	24.7	1.98
I4	28 Nov 2022	11	15.00	83.13	8.0	33.44	8.1	24.8	2.06
I4	28 Nov 2022	12	14.94	80.86	7.9	33.44	8.1	24.8	2.26
I4	28 Nov 2022	13	14.84	78.04	7.8	33.44	8.1	24.8	2.23
I4	28 Nov 2022	14	14.79	68.64	7.6	33.43	8.1	24.8	2.65
I4	28 Nov 2022	15	14.78	64.01	7.6	33.43	8.1	24.8	2.67
I4	28 Nov 2022	16	14.74	61.78	7.4	33.43	8.1	24.8	2.57
I4	28 Nov 2022	17	14.71	54.51	7.3	33.43	8.1	24.8	2.70
I4	28 Nov 2022	18	14.71	43.72	7.1	33.43	8.1	24.8	3.10
I5	28 Nov 2022	1	15.18	75.32	8.2	33.40	8.1	24.7	2.58
I5	28 Nov 2022	2	15.16	75.36	8.2	33.41	8.1	24.7	2.53
I5	28 Nov 2022	3	15.15	75.81	8.2	33.41	8.1	24.7	2.67
I5	28 Nov 2022	4	15.13	75.72	8.1	33.41	8.1	24.7	2.76
I5	28 Nov 2022	5	15.13	76.57	8.1	33.41	8.1	24.7	2.76
I5	28 Nov 2022	6	15.12	77.56	8.1	33.41	8.1	24.7	2.77
I5	28 Nov 2022	7	15.12	78.19	8.1	33.41	8.1	24.7	2.85
I5	28 Nov 2022	8	15.12	78.06	8.0	33.41	8.1	24.7	2.84
I5	28 Nov 2022	9	15.10	76.51	8.0	33.41	8.1	24.7	2.74
I5	28 Nov 2022	10	15.10	74.55	7.9	33.41	8.1	24.7	2.81
I5	28 Nov 2022	11	15.10	73.59	7.9	33.42	8.1	24.7	2.75
I5	28 Nov 2022	12	15.10	71.24	7.9	33.42	8.1	24.7	2.78
I5	28 Nov 2022	13	15.04	65.21	7.7	33.41	8.1	24.7	2.88
I5	28 Nov 2022	14	15.04	58.41	7.5	33.42	8.1	24.7	3.01
I6	28 Nov 2022	1	15.50	89.47	7.4	33.45	8.1	24.7	0.87
I6	28 Nov 2022	2	15.49	89.55	7.9	33.46	8.1	24.7	0.85
I6	28 Nov 2022	3	15.47	89.89	8.0	33.46	8.1	24.7	0.86
I6	28 Nov 2022	4	15.46	90.00	8.0	33.45	8.1	24.7	0.93
I6	28 Nov 2022	5	15.45	90.00	8.0	33.46	8.1	24.7	0.96
I6	28 Nov 2022	6	15.41	90.02	8.0	33.45	8.1	24.7	1.06
I6	28 Nov 2022	7	15.38	90.09	8.0	33.45	8.1	24.7	1.12
I6	28 Nov 2022	8	15.37	90.28	7.9	33.45	8.1	24.7	1.08
I6	28 Nov 2022	9	15.32	90.19	7.9	33.45	8.1	24.7	1.10
I6	28 Nov 2022	10	15.27	90.45	7.9	33.45	8.1	24.7	1.13
I6	28 Nov 2022	11	15.17	90.50	7.9	33.45	8.1	24.7	1.42
I6	28 Nov 2022	12	15.08	90.23	8.0	33.44	8.1	24.8	1.37
I6	28 Nov 2022	13	15.02	90.05	8.0	33.44	8.1	24.8	1.54
I6	28 Nov 2022	14	14.96	89.73	8.1	33.44	8.1	24.8	1.99
I6	28 Nov 2022	15	14.92	89.15	8.0	33.44	8.1	24.8	1.90
I6	28 Nov 2022	16	14.89	88.59	7.9	33.44	8.1	24.8	1.95
I6	28 Nov 2022	17	14.84	87.69	7.8	33.44	8.1	24.8	2.18
I6	28 Nov 2022	18	14.77	86.31	7.7	33.43	8.1	24.8	2.52
I6	28 Nov 2022	19	14.69	84.46	7.4	33.43	8.1	24.8	2.57
I6	28 Nov 2022	20	14.57	81.69	7.2	33.43	8.1	24.9	2.83
I6	28 Nov 2022	21	14.56	73.67	7.0	33.43	8.1	24.9	3.35
I6	28 Nov 2022	22	14.54	69.35	7.0	33.43	8.1	24.9	3.76
I6	28 Nov 2022	23	14.52	67.12	6.8	33.43	8.0	24.9	3.66
I6	28 Nov 2022	24	14.52	65.86	6.8	33.43	8.0	24.9	3.72
I6	28 Nov 2022	25	14.50	64.32	6.8	33.43	8.0	24.9	3.79

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I6	28 Nov 2022	26	14.50	61.18	6.8	33.43	8.0	24.9	3.69
I7	28 Nov 2022	1	16.08	89.21	7.9	33.48	8.1	24.6	0.81
I7	28 Nov 2022	2	16.08	88.66	7.9	33.48	8.1	24.6	0.81
I7	28 Nov 2022	3	16.08	89.27	7.9	33.48	8.1	24.6	0.83
I7	28 Nov 2022	4	16.08	89.33	7.8	33.48	8.1	24.6	0.85
I7	28 Nov 2022	5	16.08	89.37	7.8	33.48	8.1	24.6	0.86
I7	28 Nov 2022	6	16.07	89.43	7.8	33.47	8.1	24.6	0.90
I7	28 Nov 2022	7	16.06	89.45	7.8	33.47	8.1	24.6	0.98
I7	28 Nov 2022	8	16.06	89.53	7.8	33.47	8.1	24.6	1.00
I7	28 Nov 2022	9	16.06	89.46	7.8	33.47	8.1	24.6	1.07
I7	28 Nov 2022	10	16.06	89.47	7.8	33.47	8.1	24.6	1.10
I7	28 Nov 2022	11	15.98	89.47	7.8	33.47	8.1	24.6	1.17
I7	28 Nov 2022	12	15.91	89.43	7.9	33.46	8.1	24.6	1.27
I7	28 Nov 2022	13	15.80	89.36	7.9	33.46	8.1	24.6	1.39
I7	28 Nov 2022	14	15.72	89.41	8.0	33.45	8.1	24.6	1.52
I7	28 Nov 2022	15	15.71	89.23	8.0	33.45	8.1	24.6	1.63
I7	28 Nov 2022	16	15.69	89.15	8.0	33.45	8.1	24.6	1.65
I7	28 Nov 2022	17	15.65	88.96	7.9	33.45	8.1	24.6	1.75
I7	28 Nov 2022	18	15.64	88.73	7.9	33.44	8.1	24.6	1.86
I7	28 Nov 2022	19	15.47	88.77	7.8	33.43	8.1	24.7	2.05
I7	28 Nov 2022	20	15.14	88.60	7.7	33.41	8.1	24.7	2.14
I7	28 Nov 2022	21	14.89	88.94	7.6	33.39	8.1	24.8	2.18
I7	28 Nov 2022	22	14.71	89.51	7.5	33.38	8.1	24.8	2.03
I7	28 Nov 2022	23	14.71	89.60	7.5	33.38	8.1	24.8	2.00
I7	28 Nov 2022	24	14.57	89.64	7.4	33.38	8.1	24.8	1.95
I7	28 Nov 2022	25	14.50	89.70	7.3	33.38	8.1	24.8	1.91
I7	28 Nov 2022	26	14.45	89.82	7.3	33.38	8.1	24.8	1.89
I7	28 Nov 2022	27	14.43	90.04	7.3	33.38	8.0	24.8	1.88
I7	28 Nov 2022	28	14.37	90.08	7.2	33.38	8.0	24.9	2.06
I7	28 Nov 2022	29	14.18	90.21	7.2	33.38	8.0	24.9	1.99
I7	28 Nov 2022	30	14.19	90.52	7.2	33.38	8.0	24.9	1.75
I7	28 Nov 2022	31	14.12	90.66	7.1	33.38	8.0	24.9	1.65
I7	28 Nov 2022	32	13.99	90.72	7.0	33.37	8.0	24.9	1.58
I7	28 Nov 2022	33	13.87	90.99	6.9	33.36	8.0	24.9	1.51
I7	28 Nov 2022	34	13.77	91.15	6.8	33.36	8.0	25.0	1.42
I7	28 Nov 2022	35	13.71	91.04	6.8	33.36	8.0	25.0	1.36
I7	28 Nov 2022	36	13.76	91.13	6.7	33.36	8.0	25.0	1.33
I7	28 Nov 2022	37	13.69	91.34	6.7	33.37	8.0	25.0	1.32
I7	28 Nov 2022	38	13.66	91.40	6.7	33.37	8.0	25.0	1.30
I7	28 Nov 2022	39	13.61	91.45	6.6	33.37	8.0	25.0	1.25
I7	28 Nov 2022	40	13.55	91.57	6.5	33.37	8.0	25.0	1.24
I7	28 Nov 2022	41	13.51	91.62	6.5	33.38	8.0	25.0	1.21
I7	28 Nov 2022	42	13.47	91.53	6.4	33.39	8.0	25.1	1.18
I7	28 Nov 2022	43	13.46	91.69	6.4	33.39	8.0	25.1	1.14
I7	28 Nov 2022	44	13.46	91.65	6.3	33.39	8.0	25.1	1.14
I7	28 Nov 2022	45	13.45	91.69	6.2	33.40	8.0	25.1	1.14
I7	28 Nov 2022	46	13.45	91.78	6.2	33.40	8.0	25.1	1.15
I7	28 Nov 2022	47	13.44	91.77	6.1	33.40	7.9	25.1	1.12
I7	28 Nov 2022	48	13.37	91.69	6.0	33.41	7.9	25.1	1.08
I7	28 Nov 2022	49	13.30	91.38	5.8	33.41	7.9	25.1	1.03
I7	28 Nov 2022	50	13.18	90.54	5.7	33.41	7.9	25.1	1.07
I7	28 Nov 2022	51	13.08	89.99	5.5	33.42	7.9	25.2	1.03
I7	28 Nov 2022	52	13.07	89.95	5.5	33.42	7.9	25.2	1.04
I8	28 Nov 2022	1	15.68	89.10	8.1	33.46	8.2	24.6	0.86
I8	28 Nov 2022	2	15.68	89.47	8.1	33.46	8.2	24.6	0.86
I8	28 Nov 2022	3	15.68	89.53	8.1	33.46	8.2	24.6	0.89
I8	28 Nov 2022	4	15.66	89.52	8.1	33.46	8.2	24.6	0.93
I8	28 Nov 2022	5	15.55	88.97	8.1	33.45	8.2	24.7	1.00
I8	28 Nov 2022	6	15.52	89.22	8.2	33.45	8.2	24.7	1.15

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I8	28 Nov 2022	7	15.45	88.99	8.2	33.45	8.2	24.7	1.14
I8	28 Nov 2022	8	15.43	89.43	8.2	33.45	8.2	24.7	1.38
I8	28 Nov 2022	9	15.41	89.49	8.2	33.45	8.2	24.7	1.35
I8	28 Nov 2022	10	15.40	89.67	8.2	33.44	8.2	24.7	1.34
I8	28 Nov 2022	11	15.25	89.67	8.1	33.44	8.1	24.7	1.38
I8	28 Nov 2022	12	15.16	89.79	8.1	33.44	8.1	24.7	1.63
I8	28 Nov 2022	13	15.15	89.84	8.1	33.43	8.1	24.7	1.76
I8	28 Nov 2022	14	15.03	90.10	8.0	33.43	8.1	24.8	1.80
I8	28 Nov 2022	15	14.98	90.46	8.0	33.43	8.1	24.8	1.95
I8	28 Nov 2022	16	14.97	90.54	7.9	33.43	8.1	24.8	1.95
I8	28 Nov 2022	17	14.96	90.49	8.0	33.43	8.1	24.8	1.60
I8	28 Nov 2022	18	14.83	90.54	7.8	33.42	8.1	24.8	1.90
I8	28 Nov 2022	19	14.78	90.90	7.7	33.42	8.1	24.8	1.70
I8	28 Nov 2022	20	14.68	91.15	7.5	33.41	8.1	24.8	1.47
I8	28 Nov 2022	21	14.49	90.40	7.4	33.41	8.1	24.9	1.66
I8	28 Nov 2022	22	14.40	91.05	7.2	33.40	8.1	24.9	1.58
I8	28 Nov 2022	23	14.30	91.19	7.1	33.40	8.1	24.9	1.36
I8	28 Nov 2022	24	14.27	91.42	7.0	33.40	8.1	24.9	1.66
I8	28 Nov 2022	25	14.22	91.69	6.9	33.40	8.1	24.9	1.46
I8	28 Nov 2022	26	14.12	91.79	6.9	33.40	8.0	24.9	1.46
I8	28 Nov 2022	27	14.08	91.71	6.8	33.40	8.0	24.9	1.26
I8	28 Nov 2022	28	14.01	91.72	6.7	33.40	8.0	24.9	1.24
I8	28 Nov 2022	29	13.99	91.73	6.7	33.40	8.0	25.0	1.47
I8	28 Nov 2022	30	13.98	91.61	6.7	33.40	8.0	25.0	1.42
I8	28 Nov 2022	31	13.93	91.39	6.6	33.40	8.0	25.0	1.47
I8	28 Nov 2022	32	13.74	90.65	6.4	33.40	8.0	25.0	1.48
I8	28 Nov 2022	33	13.62	88.95	6.2	33.40	8.0	25.0	1.55
I8	28 Nov 2022	34	13.62	86.87	6.2	33.40	8.0	25.0	1.68
I8	28 Nov 2022	35	13.59	86.05	6.1	33.40	8.0	25.0	1.74
I8	28 Nov 2022	36	13.58	84.90	6.0	33.40	8.0	25.0	1.88
I9	28 Nov 2022	1	15.55	88.76	7.9	33.45	8.1	24.7	1.18
I9	28 Nov 2022	2	15.53	89.03	8.0	33.45	8.1	24.7	1.21
I9	28 Nov 2022	3	15.51	89.43	8.1	33.45	8.1	24.7	1.14
I9	28 Nov 2022	4	15.47	89.46	8.1	33.45	8.1	24.7	1.31
I9	28 Nov 2022	5	15.44	89.63	8.1	33.45	8.1	24.7	1.17
I9	28 Nov 2022	6	15.41	89.85	8.0	33.45	8.1	24.7	1.36
I9	28 Nov 2022	7	15.28	90.09	8.0	33.45	8.1	24.7	1.24
I9	28 Nov 2022	8	15.20	90.49	8.0	33.44	8.1	24.7	1.26
I9	28 Nov 2022	9	15.15	90.69	8.0	33.44	8.1	24.7	1.32
I9	28 Nov 2022	10	15.09	90.52	8.0	33.43	8.1	24.7	1.27
I9	28 Nov 2022	11	15.07	90.56	8.0	33.43	8.1	24.7	1.31
I9	28 Nov 2022	12	15.04	90.74	8.0	33.43	8.1	24.8	1.28
I9	28 Nov 2022	13	15.02	90.82	7.9	33.43	8.1	24.8	1.36
I9	28 Nov 2022	14	14.90	90.78	7.8	33.43	8.1	24.8	1.35
I9	28 Nov 2022	15	14.77	90.57	7.7	33.42	8.1	24.8	1.41
I9	28 Nov 2022	16	14.75	90.65	7.6	33.42	8.1	24.8	1.64
I9	28 Nov 2022	17	14.74	90.73	7.6	33.42	8.1	24.8	1.75
I9	28 Nov 2022	18	14.64	90.80	7.5	33.42	8.1	24.8	1.56
I9	28 Nov 2022	19	14.49	91.09	7.4	33.41	8.1	24.9	1.58
I9	28 Nov 2022	20	14.45	90.90	7.3	33.41	8.1	24.9	1.41
I9	28 Nov 2022	21	14.32	91.02	7.2	33.40	8.1	24.9	1.80
I9	28 Nov 2022	22	14.21	90.72	7.1	33.40	8.1	24.9	1.88
I9	28 Nov 2022	23	14.17	89.59	6.9	33.41	8.0	24.9	1.91
I9	28 Nov 2022	24	14.17	87.45	6.7	33.41	8.0	24.9	1.97
I9	28 Nov 2022	25	14.17	86.69	6.7	33.41	8.0	24.9	2.21
I9	28 Nov 2022	26	14.17	85.17	6.6	33.41	8.0	24.9	2.35
I9	28 Nov 2022	27	14.12	83.43	6.5	33.41	8.0	24.9	2.61
I9	28 Nov 2022	28	14.05	80.98	6.4	33.41	8.0	24.9	2.62
I9	28 Nov 2022	29	14.03	78.43	6.3	33.41	8.0	24.9	2.58

NA = not available

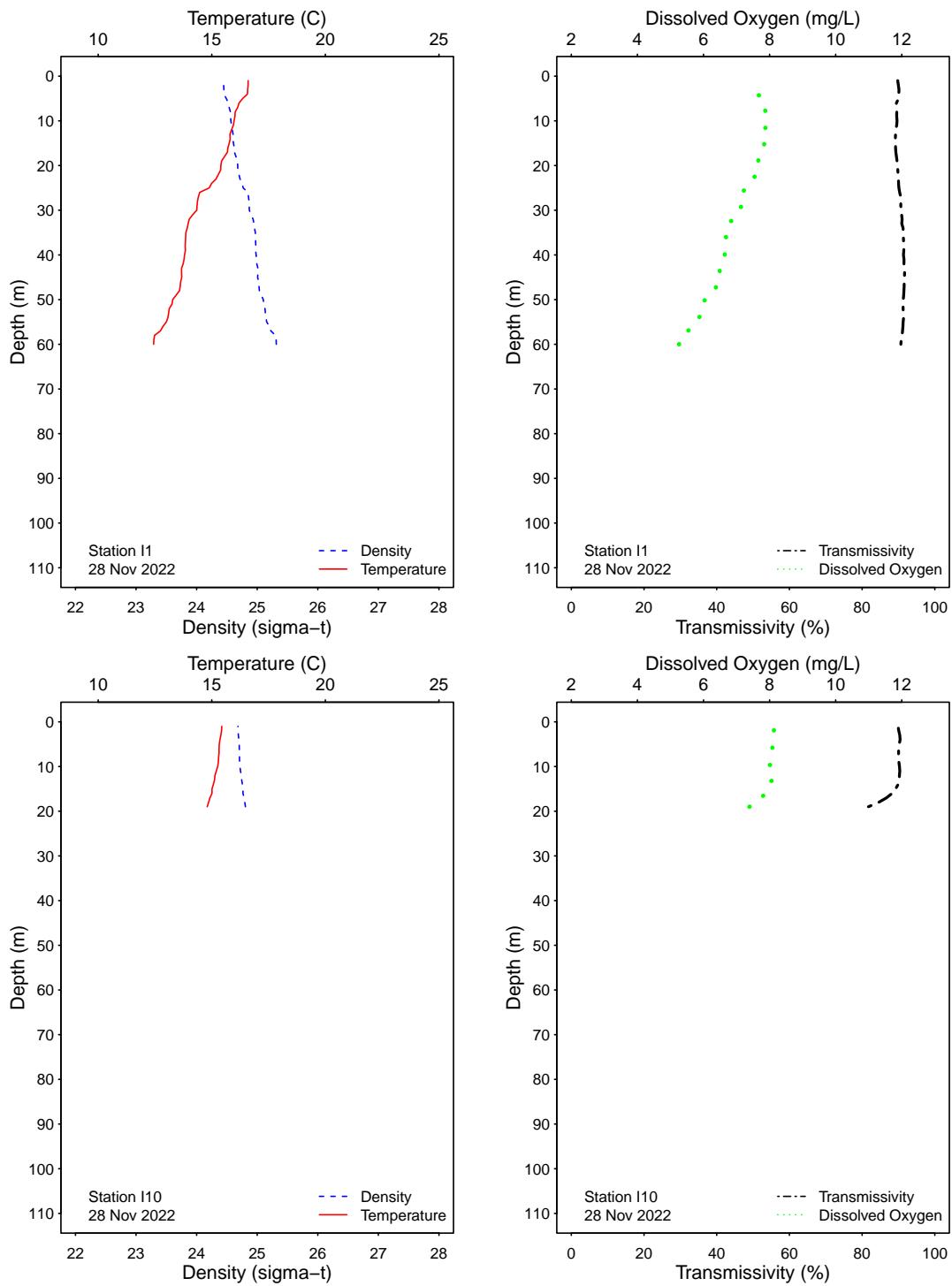


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

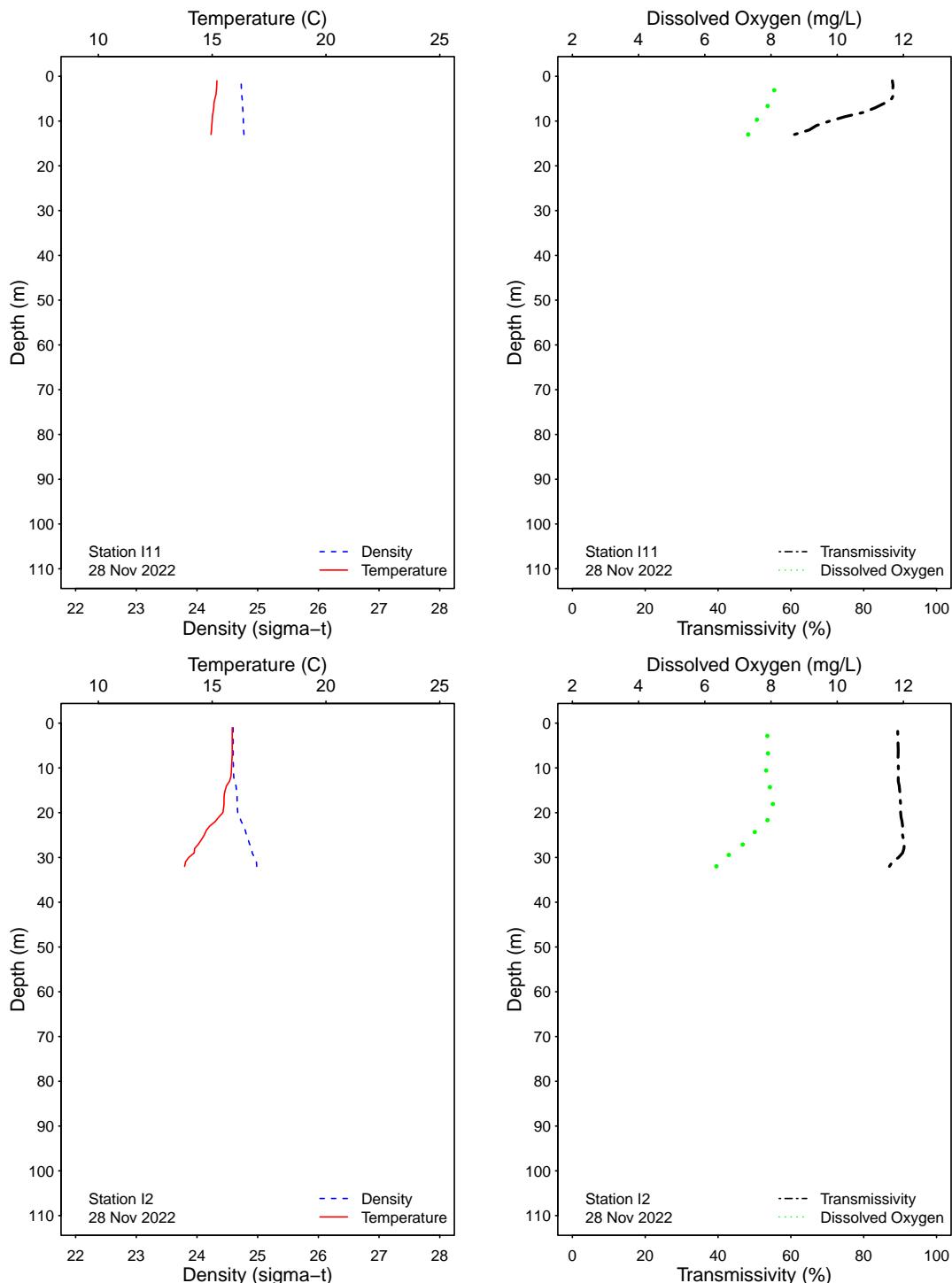


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

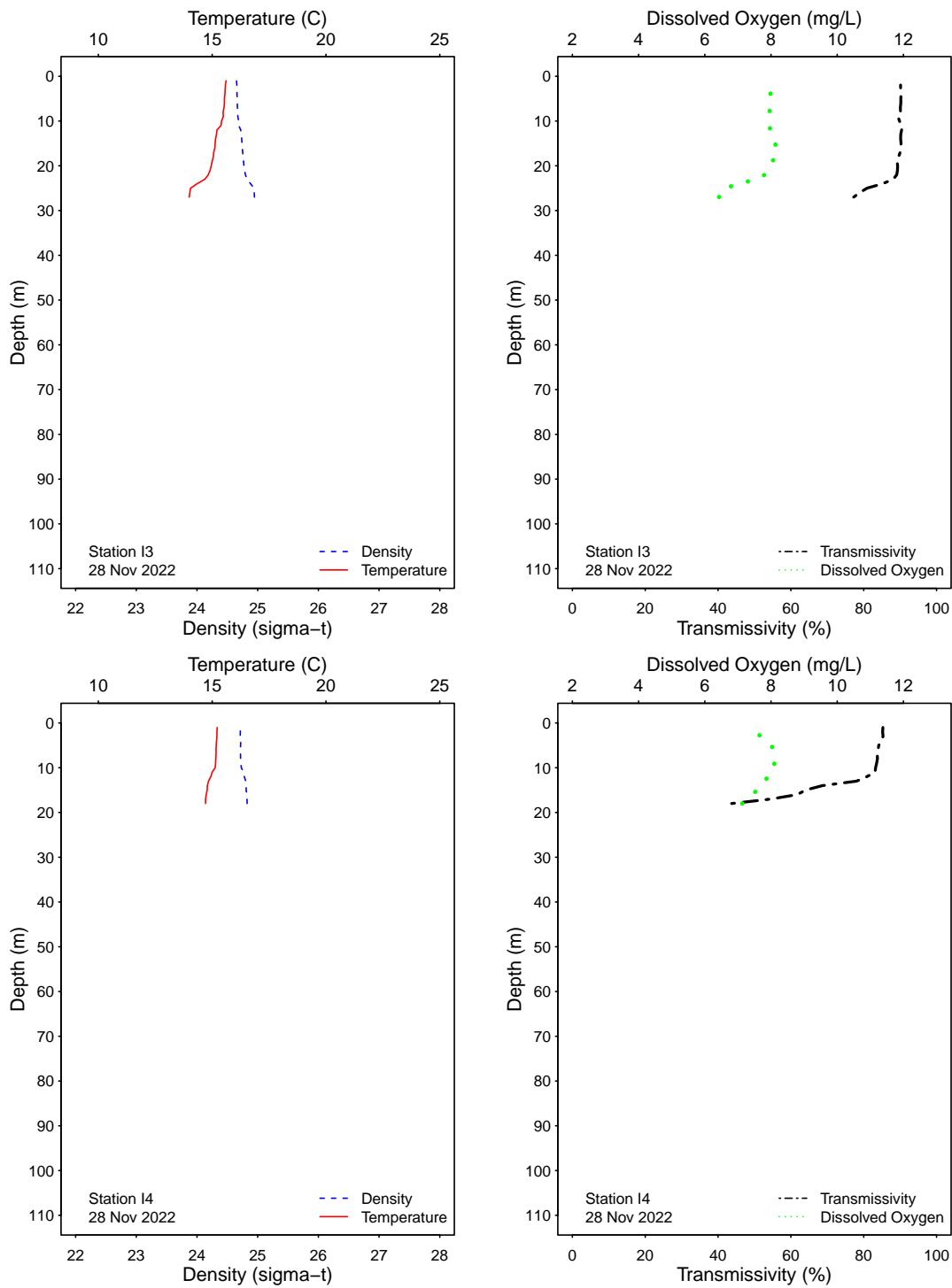


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

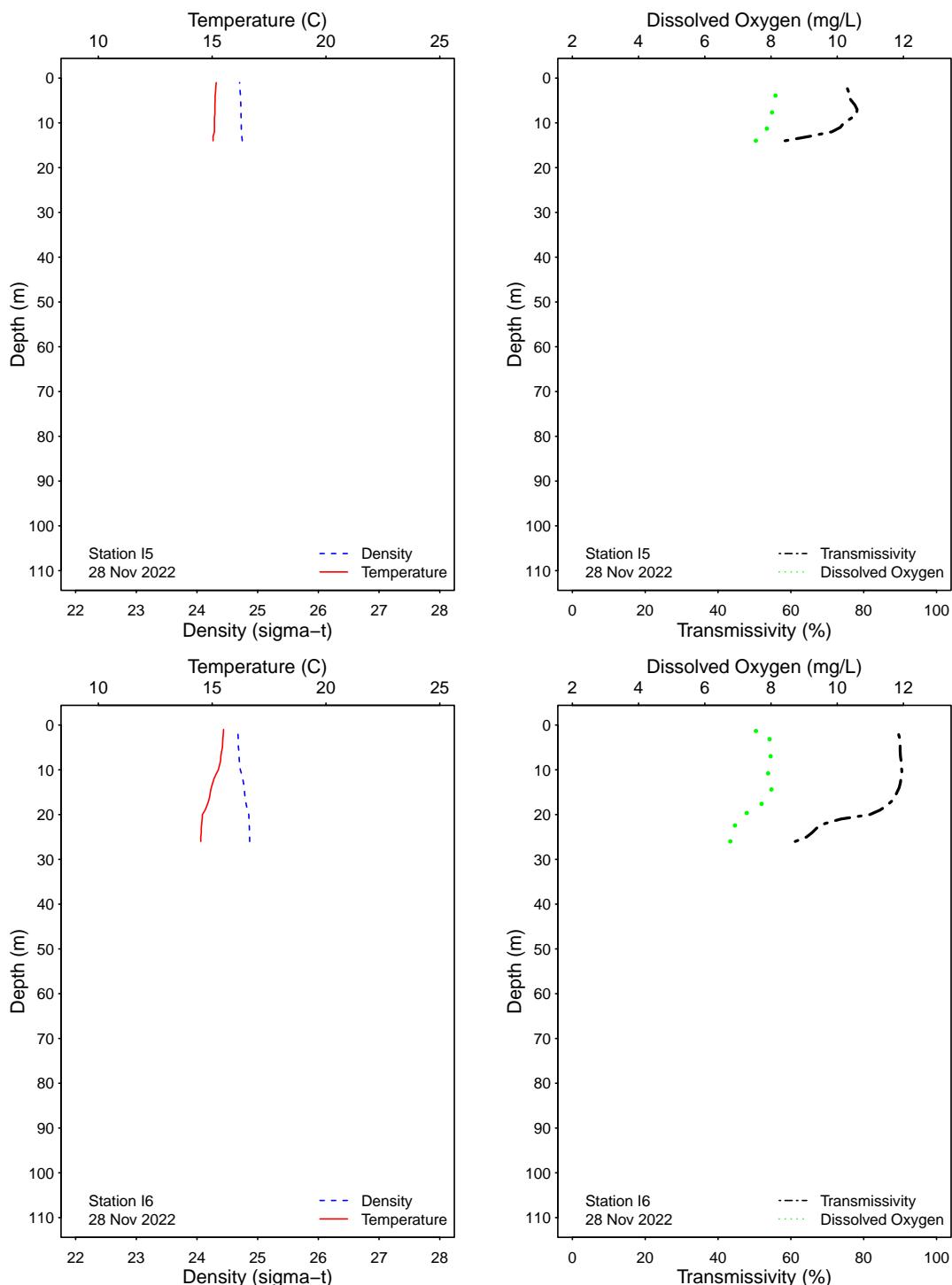


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

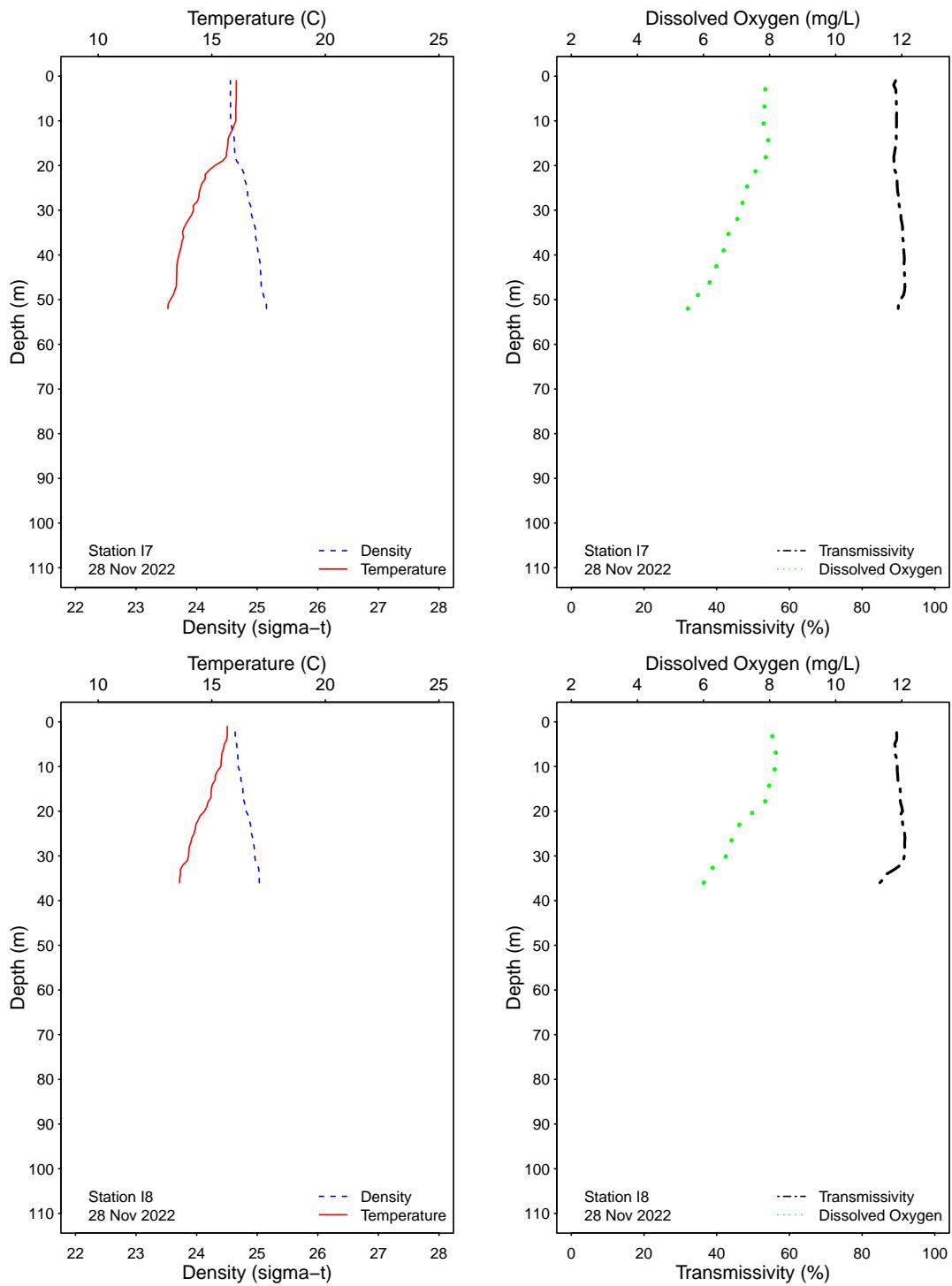


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

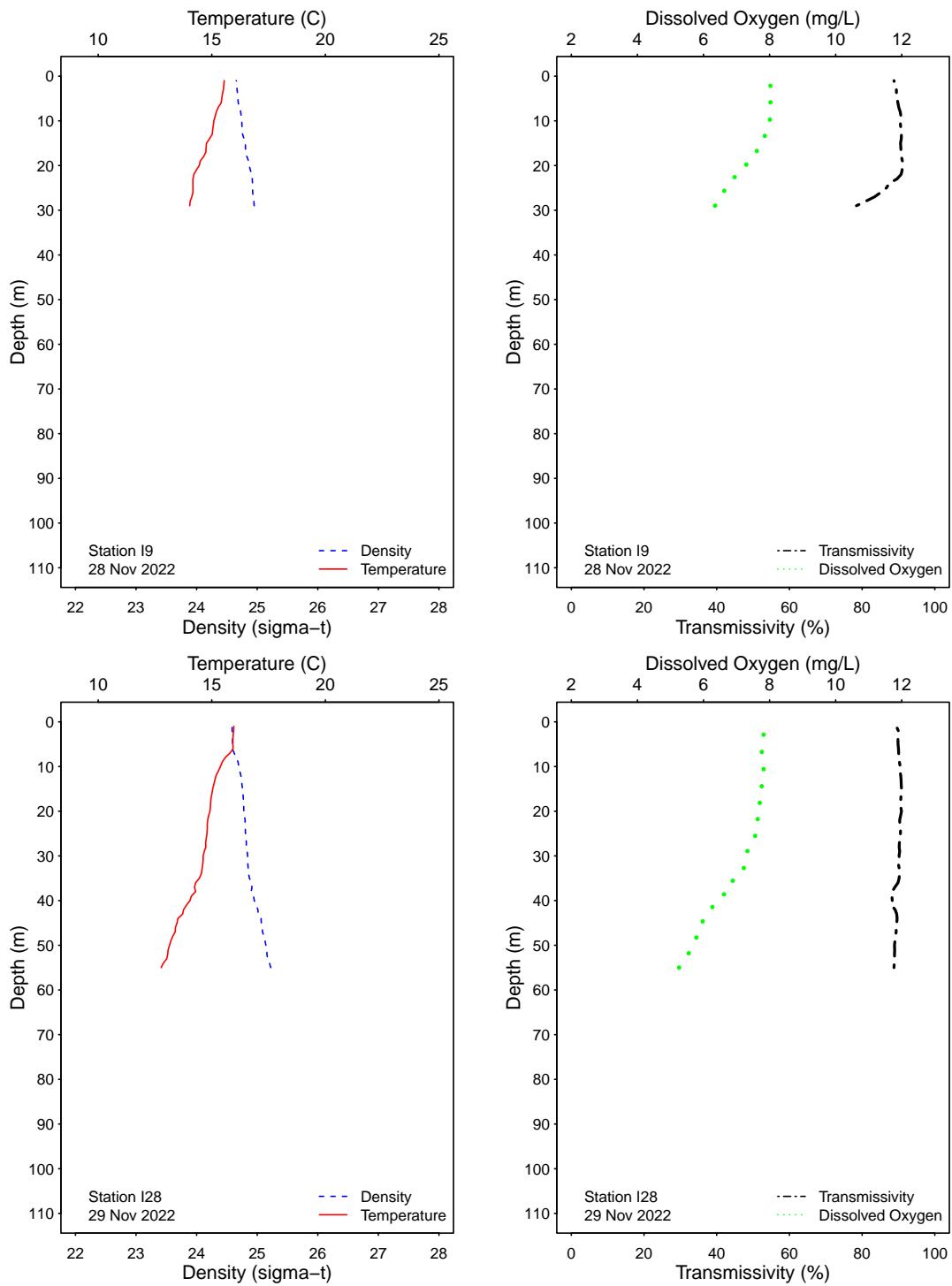


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

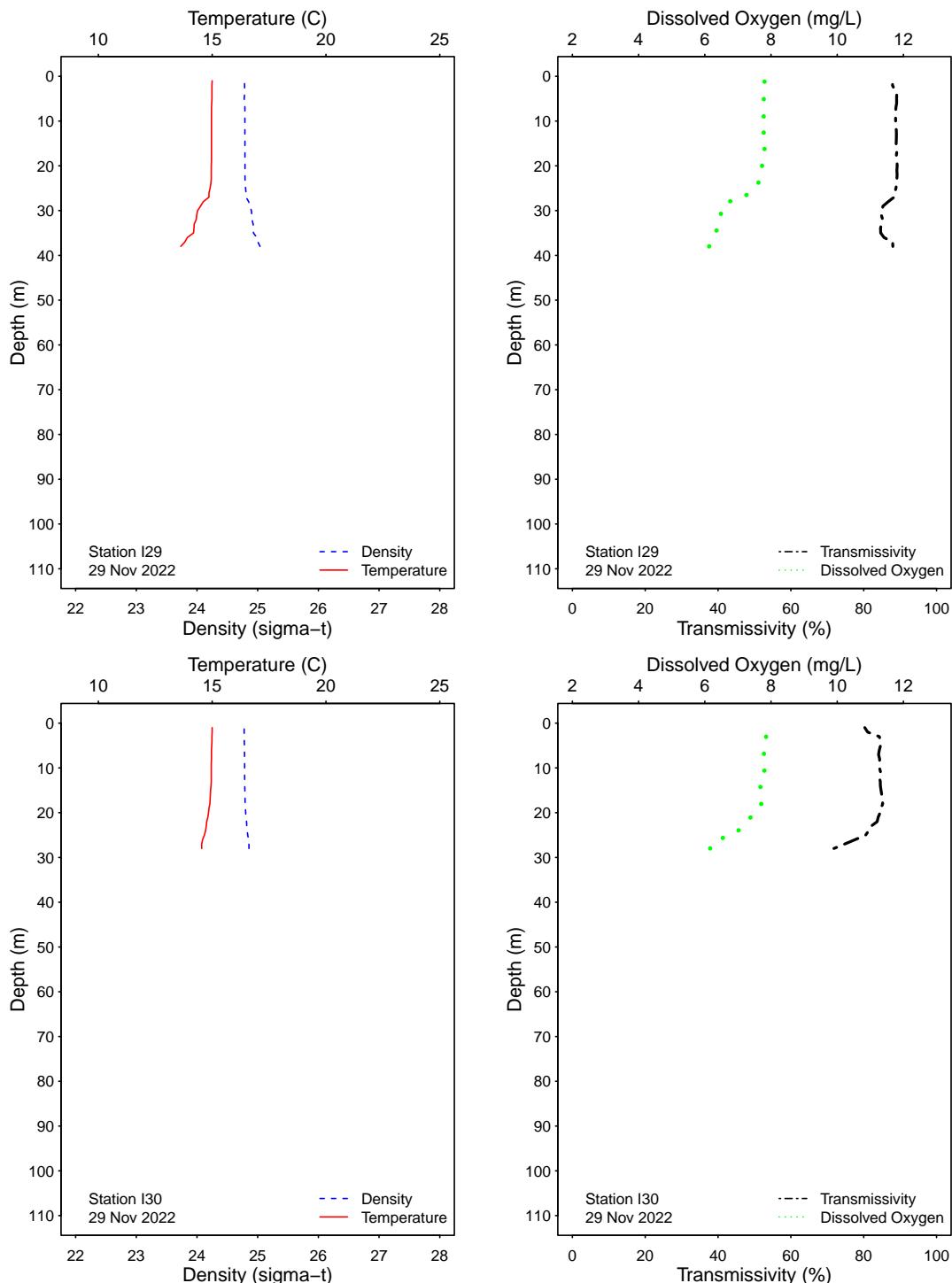


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

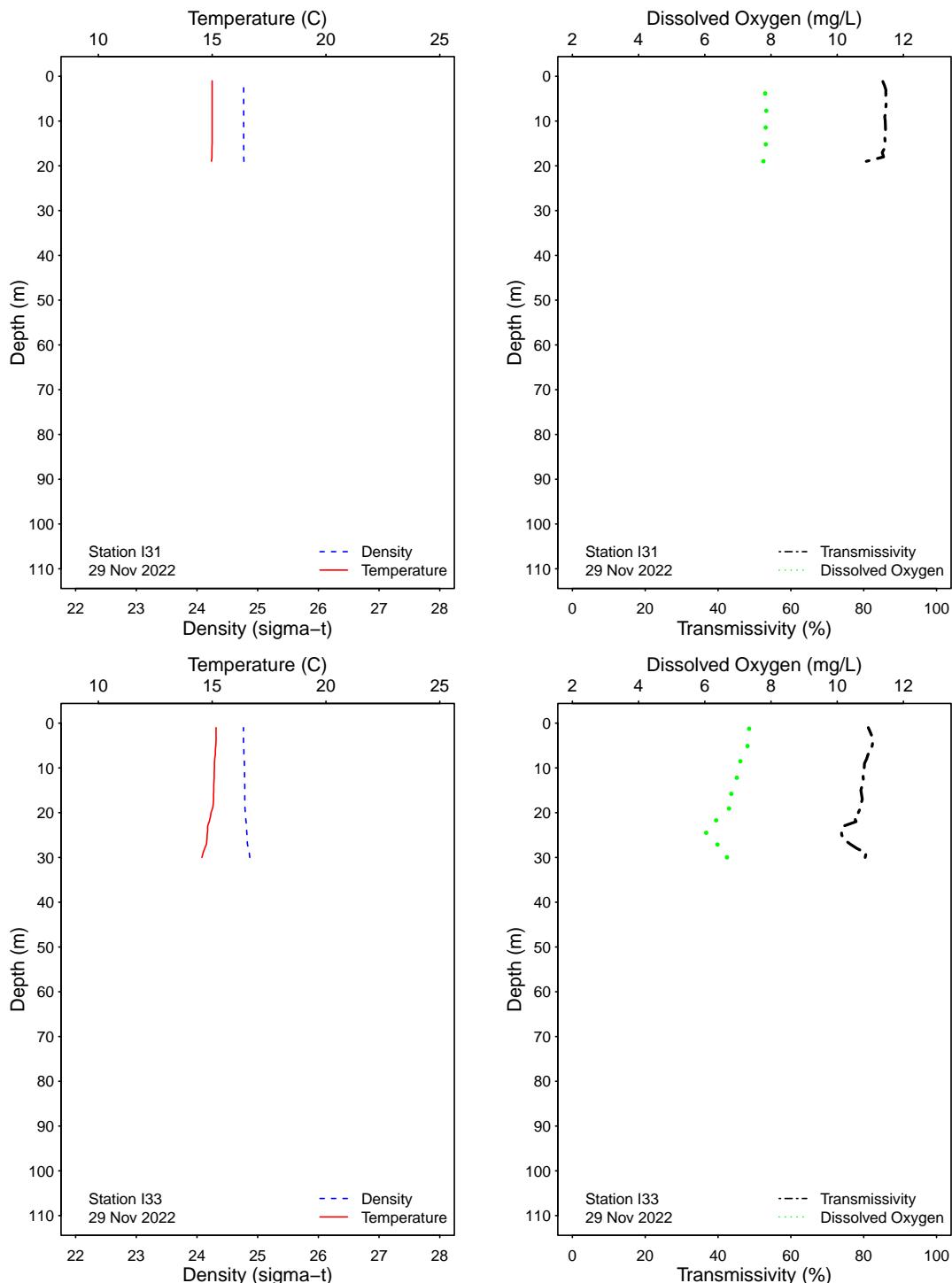


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

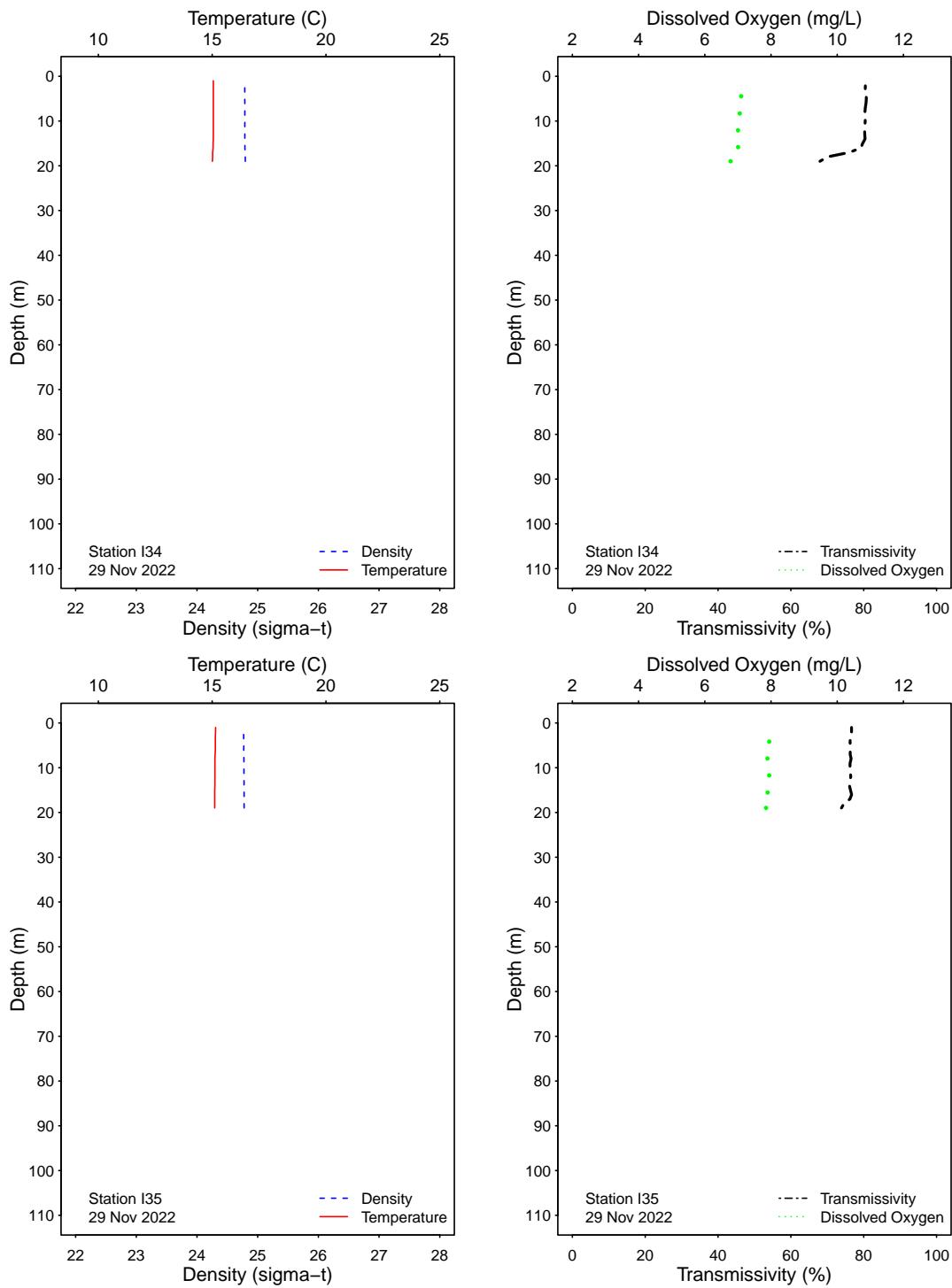


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

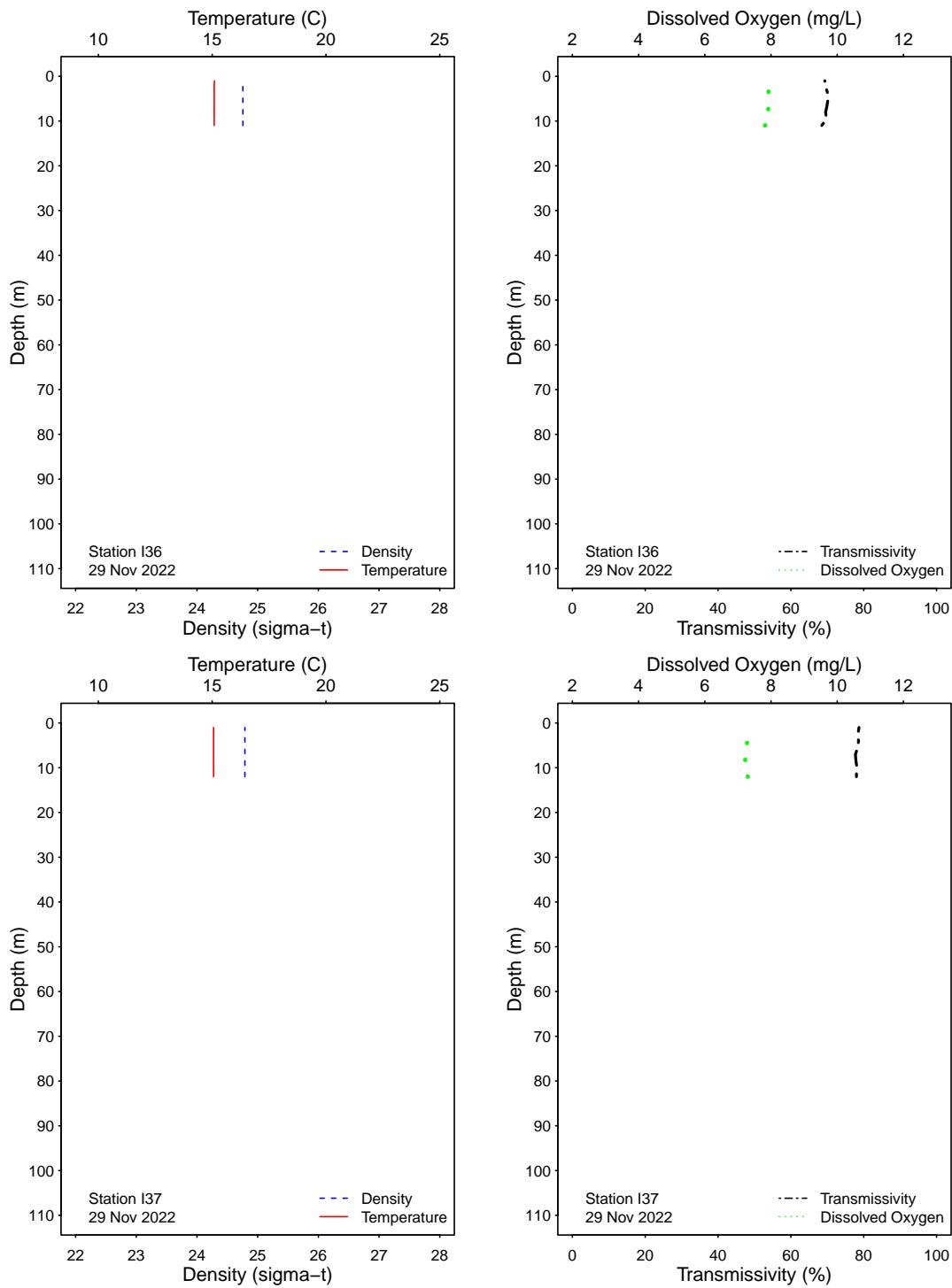


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

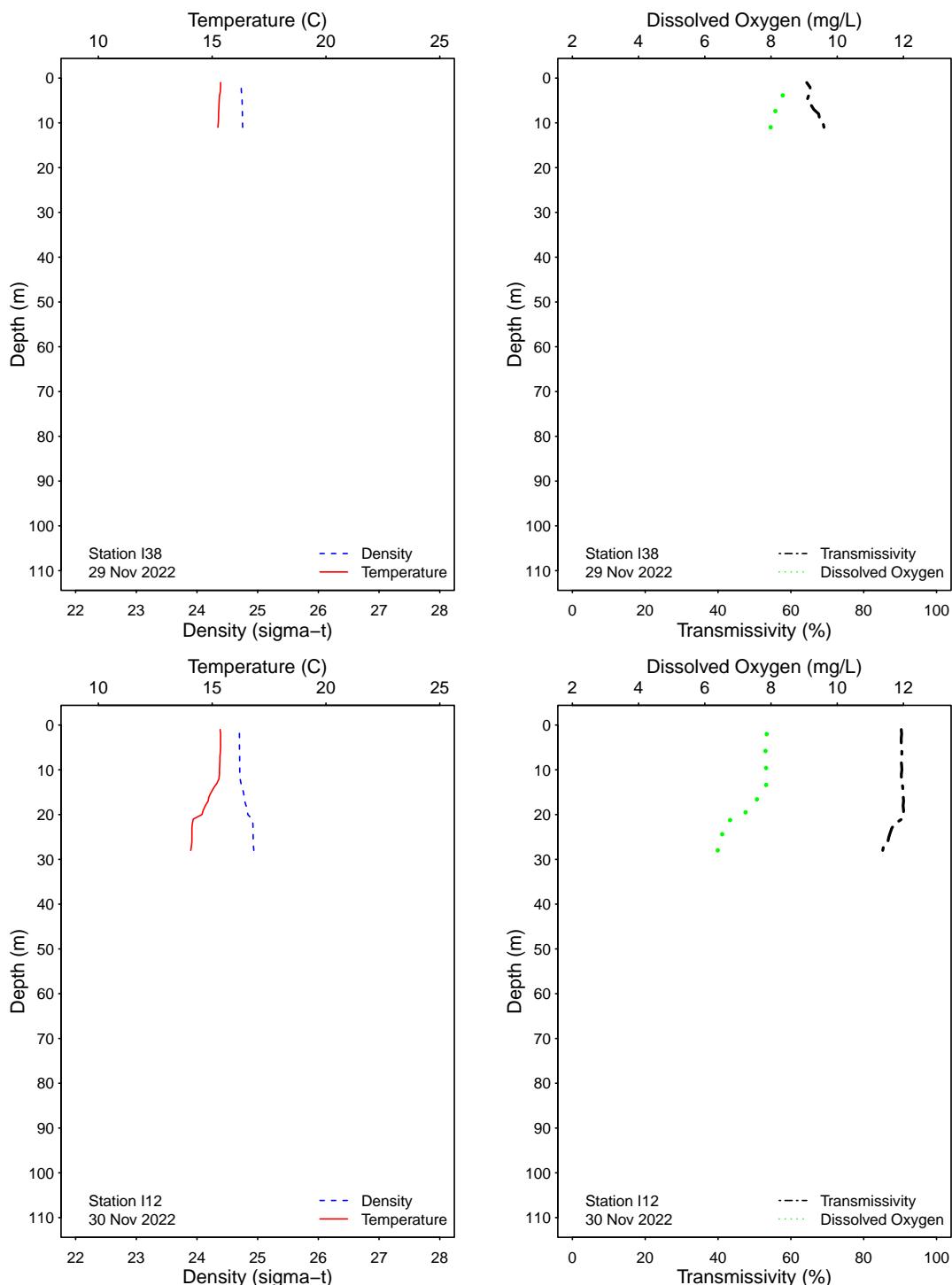


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

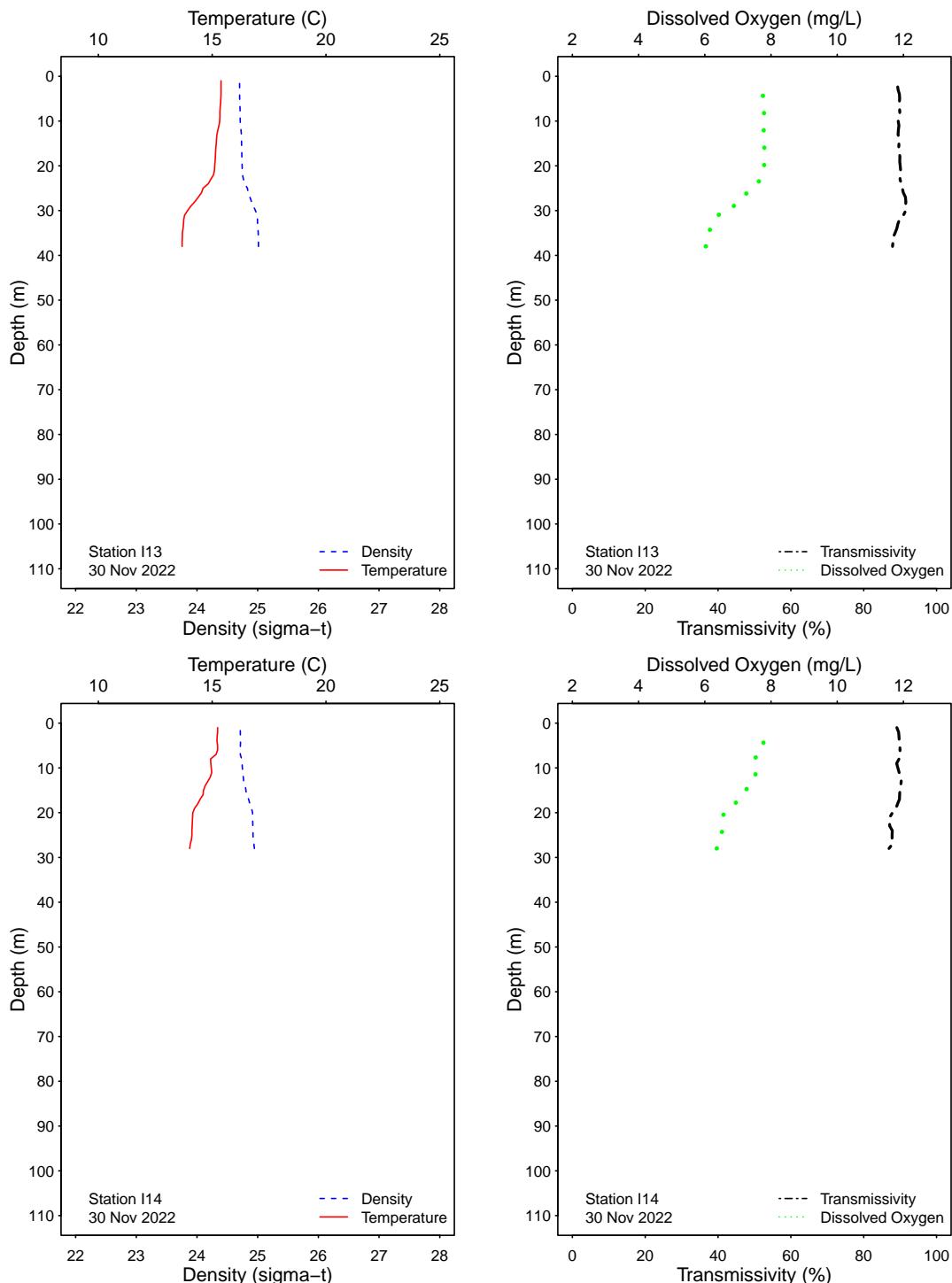


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

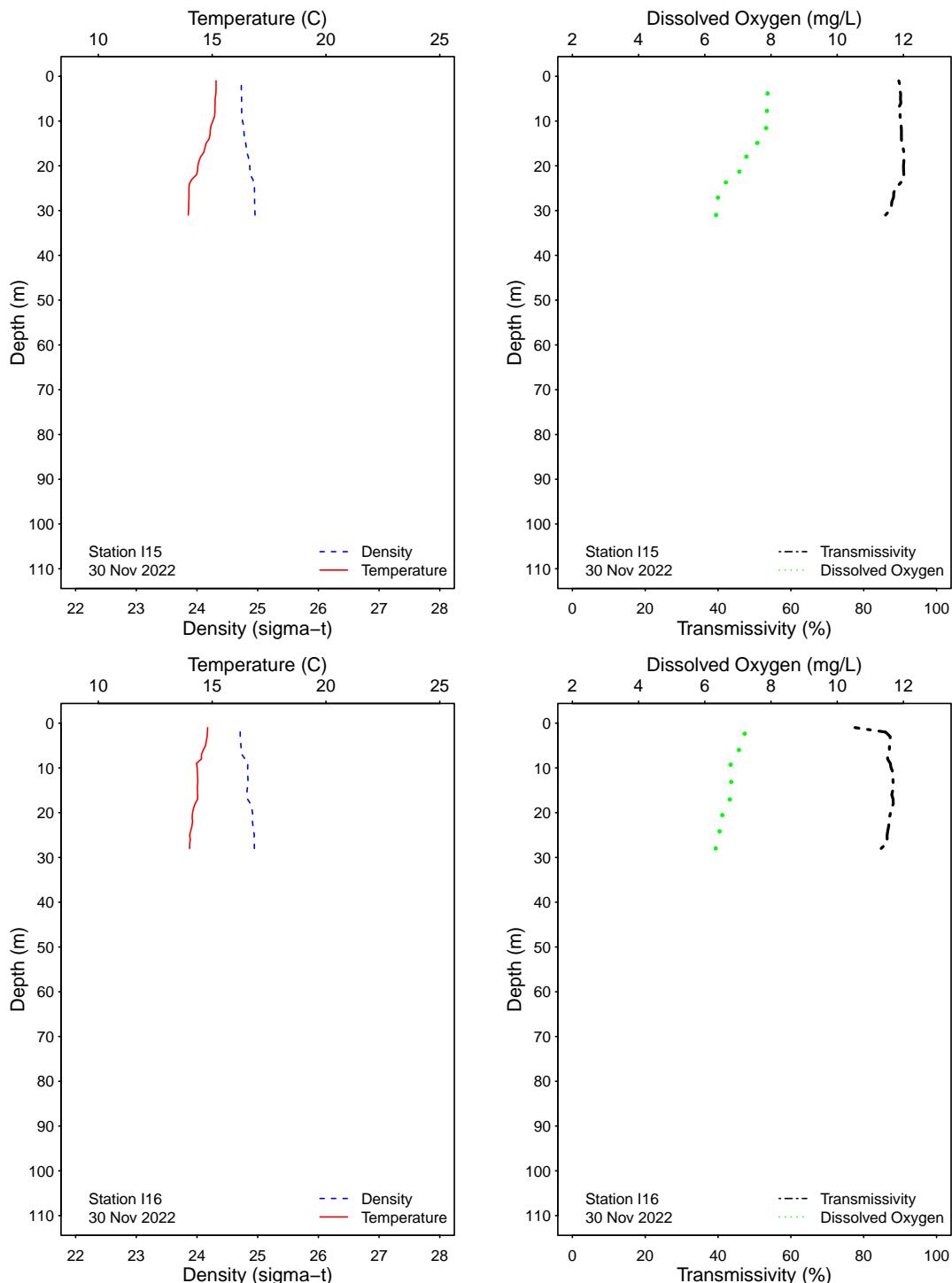


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

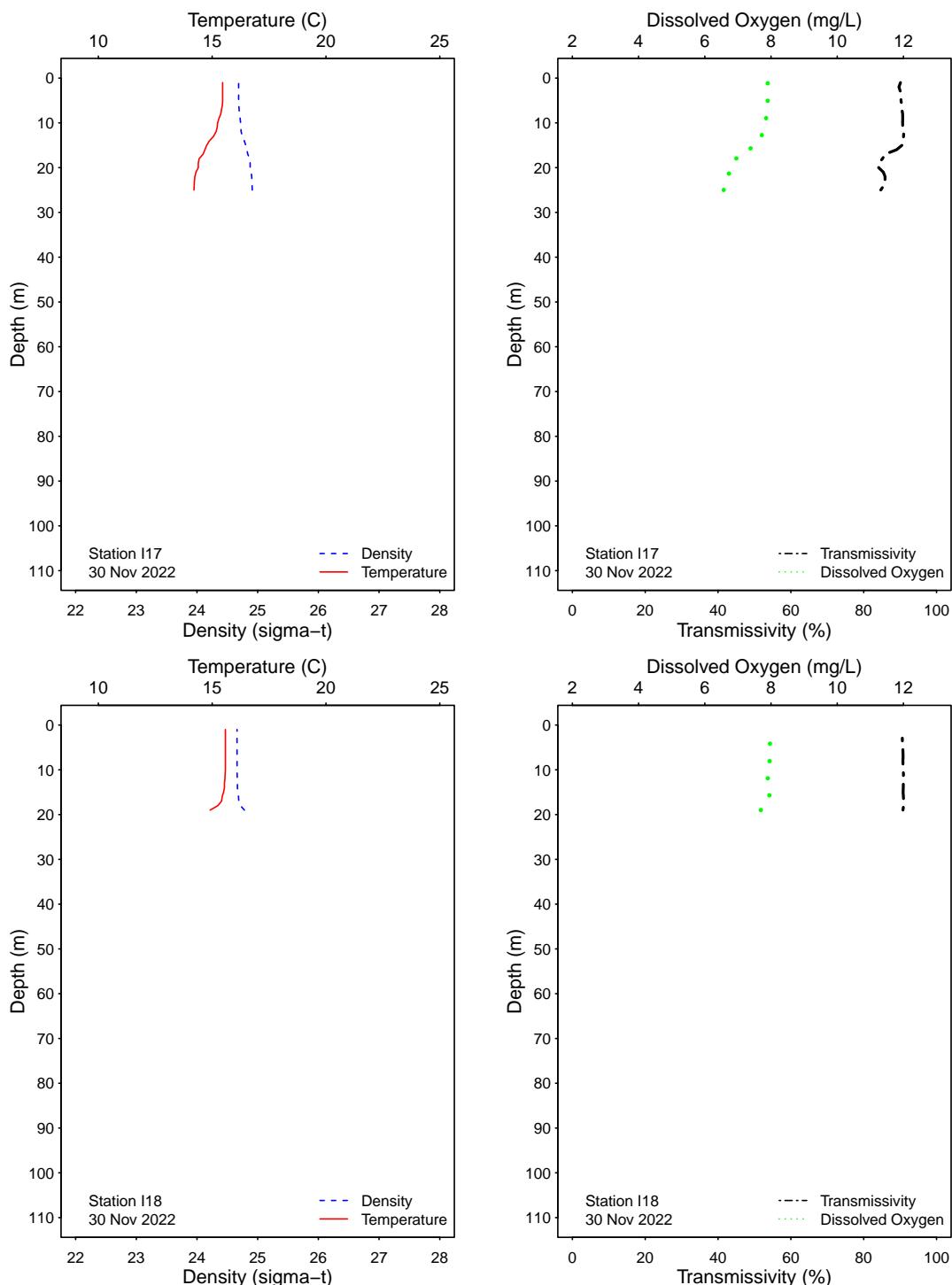


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

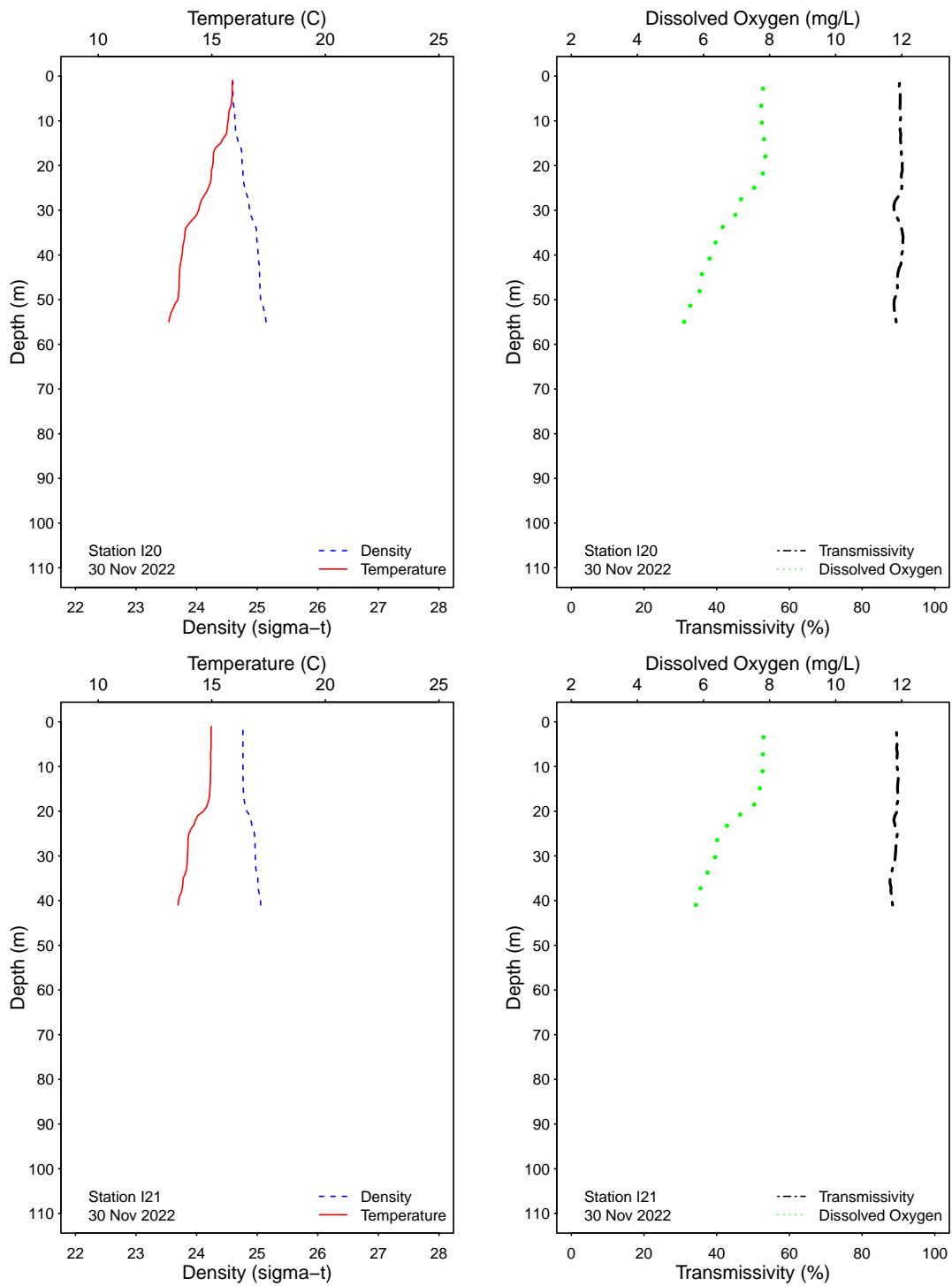


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

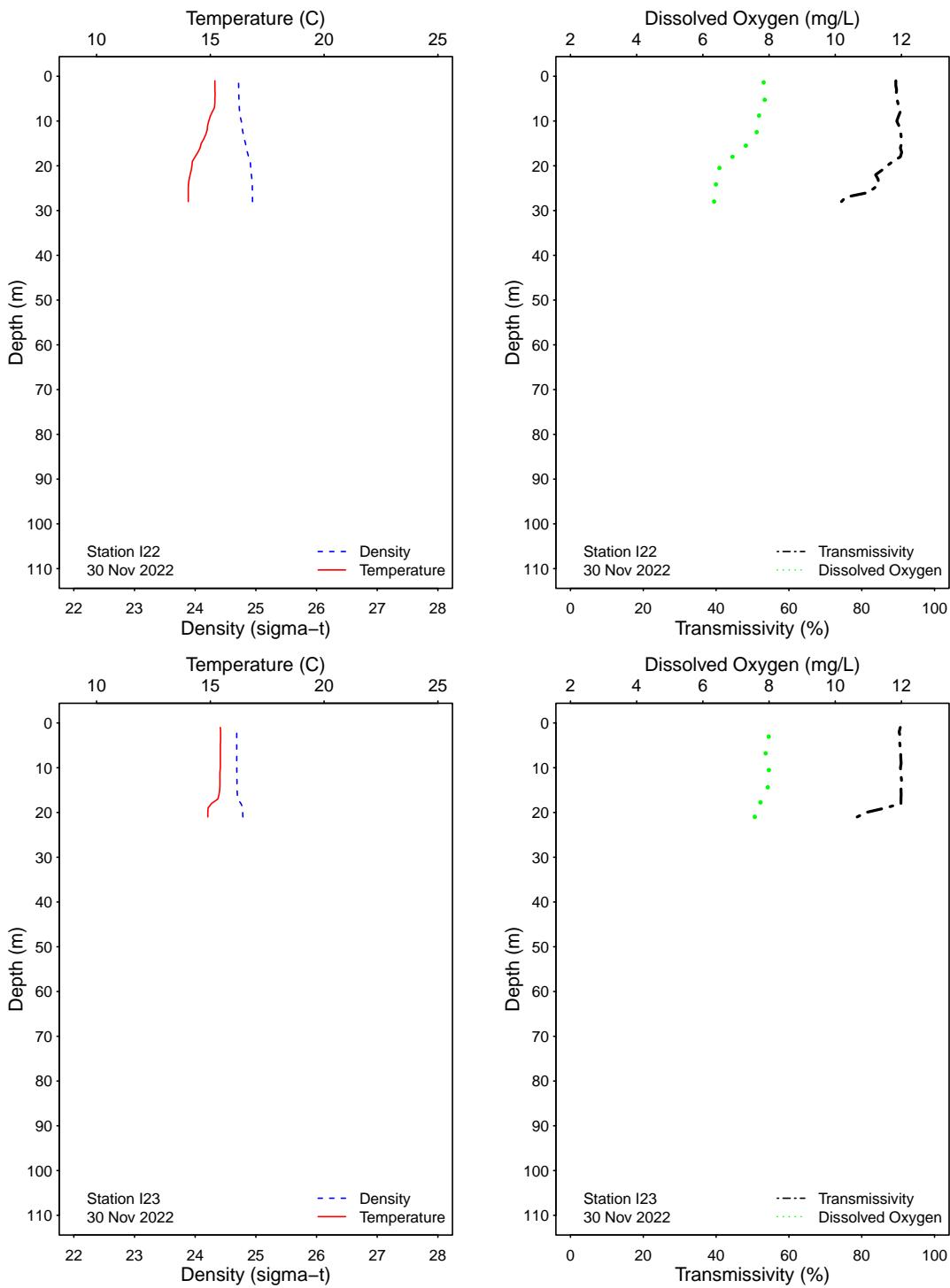


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

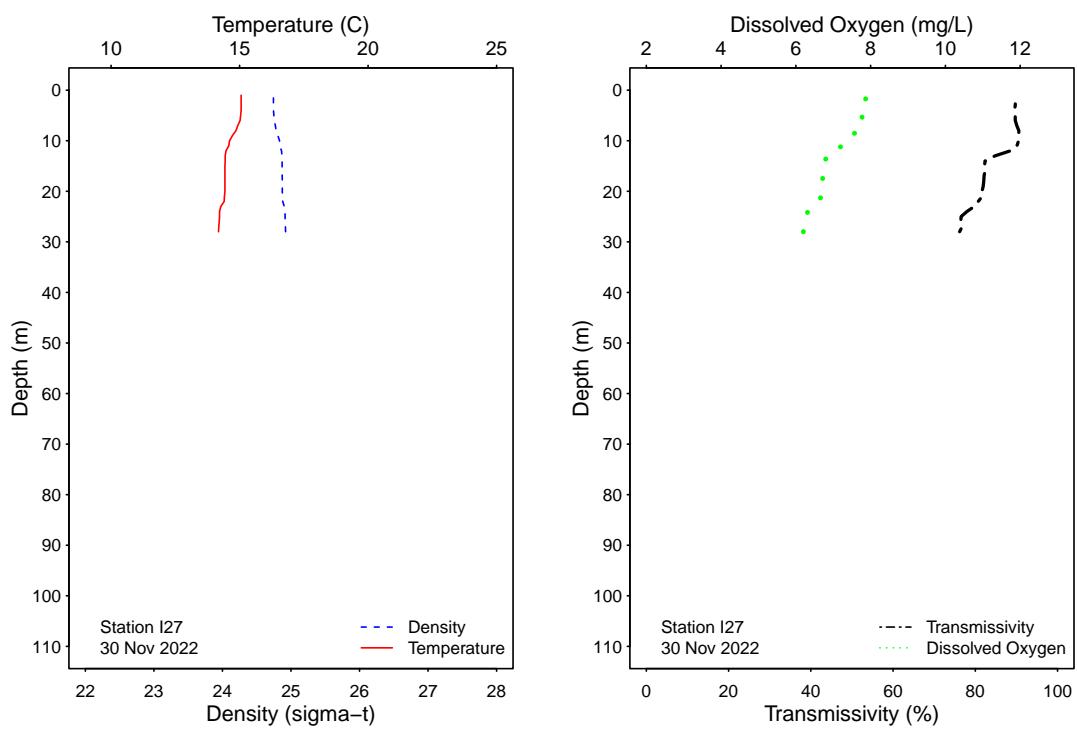


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

## 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	28 Nov 2022	18	CRE	LAB DUPLICATE	<2	<2	<2
I8	28 Nov 2022	37	CRE	LAB DUPLICATE	<2	<2	2e
I9	28 Nov 2022	27	CRE	LAB DUPLICATE	<2	<2	<2
I12	30 Nov 2022	18	CRE	LAB DUPLICATE	<2	<2	<2
I13	30 Nov 2022	18	CRE	LAB DUPLICATE	2e	<2	2e
I16	30 Nov 2022	18	CRE	LAB DUPLICATE	620	220e	68
I19	01 Nov 2022	6	BS	LAB DUPLICATE	<2	<2	<2
I19	07 Nov 2022	6	BS	LAB DUPLICATE	<2	<2	2e
I19	14 Nov 2022	6	BS	LAB DUPLICATE	1000e	120e	480
I19	21 Nov 2022	6	KA	LAB DUPLICATE	14e	4e	<2
I30	29 Nov 2022	27	BS	LAB DUPLICATE	<20	<2	<2
I36	29 Nov 2022	11	BS	FIELD DUPLICATE	<2	<2	<2
I36	29 Nov 2022	11	BS	LAB DUPLICATE	<2	<2	4e
I40	01 Nov 2022	6	BS	LAB DUPLICATE	<2	<2	<2
I40	07 Nov 2022	6	BS	LAB DUPLICATE	<2	<2	<2
I40	14 Nov 2022	6	BS	LAB DUPLICATE	1600e	340e	400
I40	21 Nov 2022	6	KA	LAB DUPLICATE	620	90	54
S12	01 Nov 2022		KT	FIELD DUPLICATE	<2	<2	<2
S12	01 Nov 2022		KT	LAB DUPLICATE	<20	4e	<2
S12	08 Nov 2022		KT	FIELD DUPLICATE	20e	14e	26e
S12	08 Nov 2022		KT	LAB DUPLICATE	<200	6e	18e
S12	15 Nov 2022		KT	FIELD DUPLICATE	<2	2e	<2
S12	15 Nov 2022		KT	LAB DUPLICATE	<20	<2	2e
S12	22 Nov 2022		KT	FIELD DUPLICATE	40e	8e	14e
S12	22 Nov 2022		KT	LAB DUPLICATE	20e	4e	22e
S12	29 Nov 2022		KT	FIELD DUPLICATE	<20	<2	6e
S12	29 Nov 2022		KT	LAB DUPLICATE	40e	<2	2e

ns = not sampled

ND = no data

