

SOUTH BAY OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

SOUTH BAY WATER RECLAMATION PLANT

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

NOVEMBER 2020

Environmental Monitoring and Technical Services
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December 31, 2020

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

Attention: POTW Compliance Unit

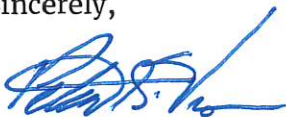
Dear Mr. Gibson:

Enclosed is the November 2020 Monthly Receiving Waters Monitoring Report for the South Bay Ocean Outfall, South Bay Water Reclamation Plant as required per Order No. R9-2013-0006 as amended by Order Nos. R9-2014-0071 and R9-2017-0023, NPDES Permit No. CA0109045.

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

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

Sincerely,



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

PV/rk

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

INTRODUCTION

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

MATERIALS AND METHODS

Shore Stations

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

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

Kelp Bed Stations

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

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

Seawater samples at the kelp bed stations are primarily collected using a CTD-integrated rosette sampler with Niskin bottles. Aliquots for bacteriological analyses were drawn from these bottles into sterile sample bottles for processing at the City's Marine Microbiology Laboratory. Water column profiles of the various physical/chemical parameters were taken using a CTD. The CTD collected these physical/chemical data at a rate ≥ 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)¹. This document defines membrane filtration limits of 20–80 colonies per plate for total coliforms and 20–60 colonies per plate for fecal coliforms and *Enterococcus*. No Data (ND) is reported if plate counts from all dilutions have a total colony count of >200 per plate.

Results of the bacteriological analysis of seawater samples collected from each of the shore, kelp bed, and offshore stations located within State waters are assessed relative to the geometric mean and single sample maximum water-contact standards specified in the 2015 California Ocean Plan (Ocean Plan). The seven standards are defined as follows:

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

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

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

Single Sample Maximums:

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

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

Quality controls of bacteriological data include laboratory and field duplicate analyses. Laboratory duplicates are performed on approximately 10% of the water quality samples, while field duplicates are performed six times a month (see Appendix A). Laboratory duplicates represent two aliquots of the original sample that are split in the laboratory and analyzed by the same analyst using identical procedures within the same analytical run. The results of these analyses provide a measure of intra-analyst precision. In contrast, field duplicates represent two separate samples collected at the same time from the same site, which are handled under identical circumstances and treated exactly the same throughout field and lab procedures. The results of these analyses provide a measure of precision associated with sample collection, preservation, storage, and lab procedures. The sign test (see Gilbert, 1987²) is used to statistically compare both the results from the laboratory duplicates, as well as the results from the field duplicates. These data will be further analyzed in the City's 2020 Quality Assurance Report, which will be completed in March 2021.

SUMMARY OF RESULTS

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

➤ **Shoreline Water Quality Sampling**

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

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

- The single sample maximum (SSM) standard for total coliform was exceeded at stations S4, S5, and S10.
 - The SSM standard for fecal coliform was exceeded at stations S4, S5, and S10.
 - The SSM standard for *Enterococcus* was exceeded at stations S4, S5, and S10.
 - The SSM standard that states total coliform densities shall not exceed 1000 CFU/100 mL when the fecal:total ratio exceeds 0.1 was exceeded at stations S4, S5, and S10
 - Per permit requirements, resamples were collected in response to these SSM exceedances (see Table 2.8 for details).
- Although the Ocean Plan standards do not apply to these stations, bacteria densities exceeded one or more benchmark levels (i.e., total coliforms >10,000 CFU/100mL; fecal coliforms >400 CFU/100 mL; *Enterococcus* >104 CFU/100 mL; total >1000 CFU/100 mL & F:T ratio >0.1) in the seawater samples collected at stations S0, S2, and S3 on one or more days during November.
- Notable observations included a sewage-like odor at station S5 on one or more days during 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 2, 11, 17, and 23.
- Two of seven kelp bed stations were out of compliance with various Ocean Plan water contact standards on one or more days as follows:
 - The SSM standard for total coliform was exceeded at station I25.
 - The SSM standard for fecal coliform was exceeded at stations I25 and I40.
 - The SSM standard that states total coliform density shall not exceed 1,000 per 100 mL when the fecal coliform/total coliform ratio exceeds 0.1 was exceeded at stations I25 and I40.
- Water column temperatures ranged from 13.12 to 18.54°C. The difference between surface and bottom waters ranged from 0.49 to 3.02°C.
- Concentrations of chlorophyll *a* ranged from 0 to 5.51 µg/L at the kelp bed stations.
- Nothing of sewage origin was observed at any of these kelp stations.

➤ **Offshore Water Quality Sampling**

- Quarterly offshore water quality sampling was conducted over three days during the month (i.e., November 3, 4, 5).
- During November, all of the offshore stations located within State jurisdictional waters (i.e., I12, I14, I16, I18, I22, I23, I33, I36–I38) were in compliance with the relevant Ocean Plan single sample maximum standards.
- Although the Ocean Plan standards do not apply to these stations, bacteria densities exceeded one or more benchmark levels (i.e., total coliforms >10,000 CFU/100mL; fecal coliforms >400 CFU/100 mL; *Enterococcus* >104 CFU/100 mL; total >1000 CFU/100 mL & F:T ratio >0.1) in the seawater samples collected stations I11 and I5 on one or more days during November.
- Water column temperatures ranged from 12.68 to 19.24°C at the offshore sites. The difference between surface and bottom waters ranged from 0.74 to 6.52°C.
- Chlorophyll *a* concentrations ranged from 0.42 to 5.24 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

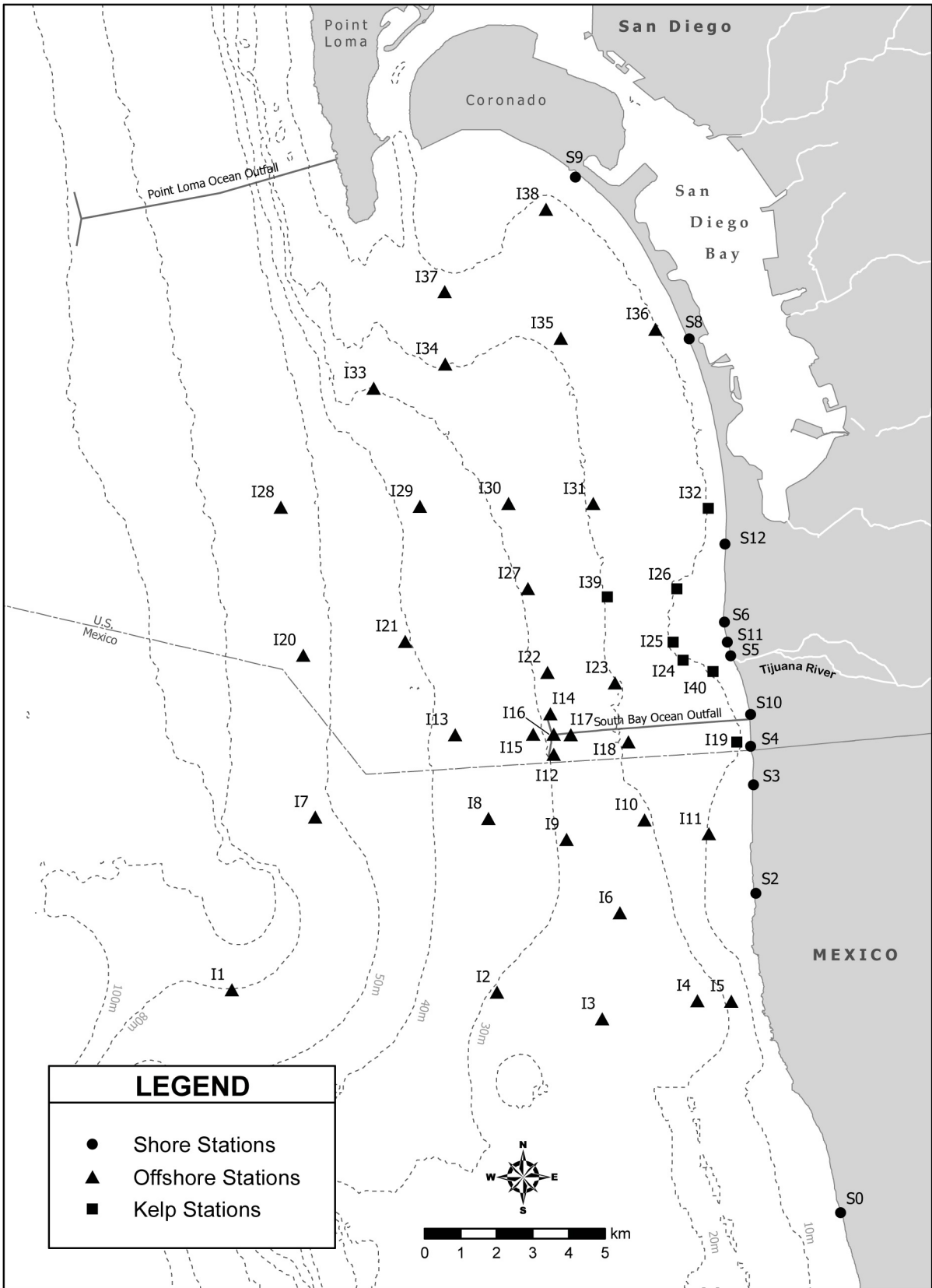


Figure 1.1 Station Map

Shore Stations

Table 2.1

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Nov 2020	32*	56*	65*	20*	20*	20*	36*	28*
02 Nov 2020	32*	56*	65*	20*	20*	20*	36*	28*
03 Nov 2020	49	65	64	23	20	33	39	30
04 Nov 2020	49	65	64	23	20	33	39	30
05 Nov 2020	30*	37*	47*	24*	20*	21*	26*	28*
06 Nov 2020	30*	37*	47*	24*	20*	21*	26*	28*
07 Nov 2020	30*	37*	47*	24*	20*	21*	26*	28*
08 Nov 2020	30*	37*	47*	24*	20*	21*	26*	28*
09 Nov 2020	30*	37*	47*	24*	20*	21*	26*	28*
10 Nov 2020	106	125	33	14	16	79	51	26
11 Nov 2020	106	125	33	14	16	79	51	26
12 Nov 2020	106	345	21*	13*	15*	136	65*	28*
13 Nov 2020	106	345	21*	13*	15*	136	65*	28*
14 Nov 2020	106	215	21*	13*	15*	136	65*	28*
15 Nov 2020	106	215	21*	13*	15*	136	65*	28*
16 Nov 2020	106	215	21*	13*	15*	136	65*	28*
17 Nov 2020	55	153	21	14	16	99	51	26
18 Nov 2020	55	153	21	14	16	99	51	26
19 Nov 2020	67	215	21*	13*	15*	136	65*	24*
20 Nov 2020	67	215	21*	13*	15*	136	65*	24*
21 Nov 2020	67	215	21*	13*	15*	136	65*	24*
22 Nov 2020	67	215	21*	13*	15*	136	65*	24*
23 Nov 2020	67	215	21*	13*	15*	136	65*	24*
24 Nov 2020	37	134	13	9	10	67	51	14
25 Nov 2020	37	134	13	9	10	67	51	14
26 Nov 2020	58	184	12*	8*	8*	136	65*	13*
27 Nov 2020	58	184	12*	8*	8*	136	65*	13*
28 Nov 2020	58	184	12*	8*	8*	136	65*	13*
29 Nov 2020	58	184	12*	8*	8*	136	65*	13*
30 Nov 2020	58	184	12*	8*	8*	136	65*	13*

* Geometric mean calculated using n<5

Table 2.2

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Nov 2020	4*	4*	4*	2*	4*	4*	5*	5*
02 Nov 2020	4*	4*	4*	2*	4*	4*	5*	5*
03 Nov 2020	6	6	5	3	4	5	5	4
04 Nov 2020	6	6	5	3	4	5	5	4
05 Nov 2020	4*	4*	3*	4*	3*	4*	4*	4*
06 Nov 2020	4*	4*	3*	4*	3*	4*	4*	4*
07 Nov 2020	4*	4*	3*	4*	3*	4*	4*	4*
08 Nov 2020	4*	4*	3*	4*	3*	4*	4*	4*
09 Nov 2020	4*	4*	3*	4*	3*	4*	4*	4*
10 Nov 2020	16	21	3	3	4	21	7	3
11 Nov 2020	16	21	3	3	4	21	7	3
12 Nov 2020	26	59	3*	4*	4*	45	6*	4*
13 Nov 2020	26	59	3*	4*	4*	45	6*	4*
14 Nov 2020	26	44	3*	4*	4*	45	6*	4*
15 Nov 2020	26	44	3*	4*	4*	45	6*	4*
16 Nov 2020	26	44	3*	4*	4*	45	6*	4*
17 Nov 2020	17	28	3	4	4	27	5	4
18 Nov 2020	17	28	3	4	4	27	5	4
19 Nov 2020	26	44	3*	5*	4*	36	6*	5*
20 Nov 2020	26	44	3*	5*	4*	36	6*	5*
21 Nov 2020	26	44	3*	5*	4*	36	6*	5*
22 Nov 2020	26	44	3*	5*	4*	36	6*	5*
23 Nov 2020	26	44	3*	5*	4*	36	6*	5*
24 Nov 2020	17	28	3	4	4	22	5	4
25 Nov 2020	17	28	3	4	4	22	5	4
26 Nov 2020	26	44	3*	5*	3*	36	6*	3*
27 Nov 2020	26	44	3*	5*	3*	36	6*	3*
28 Nov 2020	26	44	3*	5*	3*	36	6*	3*
29 Nov 2020	26	44	3*	5*	3*	36	6*	3*
30 Nov 2020	26	44	3*	5*	3*	36	6*	3*

* Geometric mean calculated using n<5

Table 2.3

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Nov 2020	5*	3*	3*	2*	6*	2*	4*	2*
02 Nov 2020	5*	3*	3*	2*	6*	2*	4*	2*
03 Nov 2020	6	4	2	3	6	3	4	3
04 Nov 2020	6	4	2	3	6	3	4	3
05 Nov 2020	4*	3*	2*	4*	6*	3*	4*	3*
06 Nov 2020	4*	3*	2*	4*	6*	3*	4*	3*
07 Nov 2020	4*	3*	2*	4*	6*	3*	4*	3*
08 Nov 2020	4*	3*	2*	4*	6*	3*	4*	3*
09 Nov 2020	4*	3*	2*	4*	6*	3*	4*	3*
10 Nov 2020	8	14	3	3	5	10	6	3
11 Nov 2020	8	14	3	3	5	10	6	3
12 Nov 2020	16	27	3*	4*	5*	17	7*	3*
13 Nov 2020	16	27	3*	4*	5*	17	7*	3*
14 Nov 2020	16	27	3*	4*	5*	17	7*	3*
15 Nov 2020	16	27	3*	4*	5*	17	7*	3*
16 Nov 2020	16	27	3*	4*	5*	17	7*	3*
17 Nov 2020	11	20	3	4	5	12	6	3
18 Nov 2020	11	20	3	4	5	12	6	3
19 Nov 2020	13	31	3*	4*	4*	17	7*	3*
20 Nov 2020	13	31	3*	4*	4*	17	7*	3*
21 Nov 2020	13	31	3*	4*	4*	17	7*	3*
22 Nov 2020	13	31	3*	4*	4*	17	7*	3*
23 Nov 2020	13	31	3*	4*	4*	17	7*	3*
24 Nov 2020	10	20	3	4	3	12	6	3
25 Nov 2020	10	20	3	4	3	12	6	3
26 Nov 2020	13	31	3*	4*	3*	17	4*	3*
27 Nov 2020	13	31	3*	4*	3*	17	4*	3*
28 Nov 2020	13	31	3*	4*	3*	17	4*	3*
29 Nov 2020	13	31	3*	4*	3*	17	4*	3*
30 Nov 2020	13	31	3*	4*	3*	17	4*	3*

* Geometric mean calculated using n<5

Table 2.4

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
03 Nov 2020	IC	IC	IC	IC	IC	IC	IC	IC
10 Nov 2020	E	E	IC	IC	IC	E	IC	IC
12 Nov 2020	IC	IC	ns	ns	ns	IC	ns	ns
14 Nov 2020	ns	IC	ns	ns	ns	ns	ns	ns
17 Nov 2020	IC	IC	IC	IC	IC	IC	IC	IC
24 Nov 2020	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.5

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
03 Nov 2020	IC	IC	IC	IC	IC	IC	IC	IC
10 Nov 2020	E	E	IC	IC	IC	E	IC	IC
12 Nov 2020	IC	E	ns	ns	ns	IC	ns	ns
14 Nov 2020	ns	IC	ns	ns	ns	ns	ns	ns
17 Nov 2020	IC	IC	IC	IC	IC	IC	IC	IC
24 Nov 2020	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.6

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
03 Nov 2020	IC	IC	IC	IC	IC	IC	IC	IC
10 Nov 2020	E	E	IC	IC	IC	E	IC	IC
12 Nov 2020	IC	IC	ns	ns	ns	IC	ns	ns
17 Nov 2020	IC	IC	IC	IC	IC	IC	IC	IC
24 Nov 2020	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.7

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
03 Nov 2020	IC	IC	IC	IC	IC	IC	IC	IC
10 Nov 2020	E	E	IC	IC	IC	E	IC	IC
12 Nov 2020	IC	E	ns	ns	ns	IC	ns	ns
14 Nov 2020	ns	IC	ns	ns	ns	ns	ns	ns
17 Nov 2020	IC	IC	IC	IC	IC	IC	IC	IC
24 Nov 2020	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.8

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

Station	Date	Time	Total	Fecal	Entero	F:T
S0	03 Nov 2020	915	260e	44	72	0.17
S0	10 Nov 2020	850	>16000	2800e	2000e	0.17
S0	17 Nov 2020	835	800	100	76	0.12
S0	24 Nov 2020	820	>16000	>12000	>12000	0.75
S2	03 Nov 2020	830	340e	28e	54	0.08
S2	10 Nov 2020	950	6800	1100	30e	0.16
S2	17 Nov 2020	935	80e	4e	36e	0.05
S2	24 Nov 2020	925	80e	30e	24e	0.38
S3	03 Nov 2020	810	560	36e	48	0.06
S3	10 Nov 2020	925	>16000	2000e	200e	0.12
S3	17 Nov 2020	910	400e	100	70	0.25
S3	24 Nov 2020	855	130	<2	<2	0.02
S4	03 Nov 2020	930	260e	38e	16e	0.15
S4	10 Nov 2020	1049	>16000	4000	110	0.25
S4	12 Nov 2020	1344	40e	18e	54	0.45
S4	17 Nov 2020	1121	<2	<2	<2	1.00
S4	24 Nov 2020	811	2e	<2	2e	1.00
S5	03 Nov 2020	1008	120e	22e	6e	0.18
S5	10 Nov 2020	919	>16000	>12000	>12000	0.75
S5	12 Nov 2020	1254	6400	660	50	0.10
S5	14 Nov 2020	900	20e	10e	ns	0.50
S5	17 Nov 2020	904	<20	2e	4e	0.10
S5	24 Nov 2020	853	8e	<2	<2	0.25
S6	03 Nov 2020	1032	60e	8e	2e	0.13
S6	10 Nov 2020	941	8e	2e	8e	0.25
S6	17 Nov 2020	922	<20	4e	2e	0.20
S6	24 Nov 2020	909	<2	2e	4e	1.00
S8	03 Nov 2020	907	40e	26e	22e	0.65
S8	10 Nov 2020	828	2e	<2	<2	1.00
S8	17 Nov 2020	803	<20	4e	4e	0.20
S8	24 Nov 2020	1012	<2	<2	<2	1.00
S9	03 Nov 2020	849	<20	6e	6e	0.30
S9	10 Nov 2020	810	6e	4e	<2	0.67
S9	17 Nov 2020	730	<20	2e	4e	0.10
S9	24 Nov 2020	1033	2e	2e	<2	1.00
S10	03 Nov 2020	917	240e	14e	16e	0.06
S10	10 Nov 2020	1025	>16000	>12000	720	0.75
S10	12 Nov 2020	1337	300e	90	28e	0.30
S10	17 Nov 2020	1108	<20	2e	<2	0.10
S10	24 Nov 2020	803	<2	<2	2e	1.00
S11	03 Nov 2020	1017	60e	4e	6e	0.07
S11	10 Nov 2020	933	740	98	14e	0.13
S11	17 Nov 2020	914	<20	2e	<2	0.10
S11	24 Nov 2020	901	<20	<2	<2	0.10

Station	Date	Time	Total	Fecal	Entero	F:T
S12	03 Nov 2020	925	40e	2e	6e	0.05
S12	10 Nov 2020	853	<20	<2	<2	0.10
S12	17 Nov 2020	841	<20	6e	<2	0.30
S12	24 Nov 2020	919	<2	<2	<2	1.00

ns = not sampled

ND = no data

Comments

Station	Date	Depth	Parameter	Comments
S4	12 Nov 2020			Resample
S5	12 Nov 2020			Resample
S10	12 Nov 2020			Resample
S5	14 Nov 2020			Resample

Table 2.9

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

Station	Date	Parameter	Value
S0	03 Nov 2020	Arrive Time	915
S0	03 Nov 2020	Weather	Sunny
S0	03 Nov 2020	Wind Speed (kts)	1.9
S0	03 Nov 2020	Wind Dir	NW
S0	03 Nov 2020	Animal Life	20 Seagulls
S0	03 Nov 2020	Floatables	None
S0	03 Nov 2020	Water Color	Green
S0	03 Nov 2020	Current Direction	NW
S0	03 Nov 2020	Water Temp (C)	14
S0	03 Nov 2020	Wave Height Low (ft)	2
S0	03 Nov 2020	High Tide (ft)	5.5
S0	03 Nov 2020	High Tide Time	923
S0	03 Nov 2020	Low Tide (ft)	2.1
S0	03 Nov 2020	Low Tide Time	312
S0	03 Nov 2020	Comments	Kelp; Water turbid; 1.0 L/sec water flowing from storm drain
S0	10 Nov 2020	Arrive Time	850
S0	10 Nov 2020	Weather	Sunny
S0	10 Nov 2020	Wind Speed (kts)	1
S0	10 Nov 2020	Wind Dir	NE
S0	10 Nov 2020	Animal Life	10 Shorebirds
S0	10 Nov 2020	Floatables	None
S0	10 Nov 2020	Water Color	Green
S0	10 Nov 2020	Current Direction	N
S0	10 Nov 2020	Water Temp (C)	14
S0	10 Nov 2020	Wave Height Low (ft)	3
S0	10 Nov 2020	High Tide (ft)	4.7
S0	10 Nov 2020	High Tide Time	531
S0	10 Nov 2020	Low Tide (ft)	1.8
S0	10 Nov 2020	Low Tide Time	1124
S0	10 Nov 2020	Comments	Kelp; 6 Persons; Water clear; 1.0 L/sec water flowing from storm drain
S0	17 Nov 2020	Arrive Time	835
S0	17 Nov 2020	Weather	Sunny
S0	17 Nov 2020	Wind Speed (kts)	2.1
S0	17 Nov 2020	Wind Dir	SW
S0	17 Nov 2020	Animal Life	20 Seagulls
S0	17 Nov 2020	Floatables	None
S0	17 Nov 2020	Water Color	Green
S0	17 Nov 2020	Current Direction	N
S0	17 Nov 2020	Water Temp (C)	15
S0	17 Nov 2020	Wave Height Low (ft)	2
S0	17 Nov 2020	High Tide (ft)	6.5
S0	17 Nov 2020	High Tide Time	936
S0	17 Nov 2020	Low Tide (ft)	1.9
S0	17 Nov 2020	Low Tide Time	325
S0	17 Nov 2020	Comments	Kelp; Water turbid; 2.0 L/sec water flowing from storm drain
S0	24 Nov 2020	Arrive Time	820
S0	24 Nov 2020	Weather	Sunny
S0	24 Nov 2020	Wind Speed (kts)	1.4
S0	24 Nov 2020	Wind Dir	NE
S0	24 Nov 2020	Animal Life	20 Shorebirds
S0	24 Nov 2020	Floatables	None
S0	24 Nov 2020	Water Color	Green

Station	Date	Parameter	Value
S0	24 Nov 2020	Current Direction	N
S0	24 Nov 2020	Water Temp (C)	14
S0	24 Nov 2020	Wave Height Low (ft)	3
S0	24 Nov 2020	High Tide (ft)	4.8
S0	24 Nov 2020	High Tide Time	541
S0	24 Nov 2020	Low Tide (ft)	1.6
S0	24 Nov 2020	Low Tide Time	1204
S0	24 Nov 2020	Comments	Kelp; 2 Persons; 1 Surfer; Water clear; 0.5 L/sec water flowing from storm drain
S2	03 Nov 2020	Arrive Time	830
S2	03 Nov 2020	Weather	Foggy
S2	03 Nov 2020	Wind Speed (kts)	1.6
S2	03 Nov 2020	Wind Dir	NW
S2	03 Nov 2020	Animal Life	None
S2	03 Nov 2020	Floatables	None
S2	03 Nov 2020	Water Color	Green
S2	03 Nov 2020	Current Direction	NW
S2	03 Nov 2020	Water Temp (C)	14
S2	03 Nov 2020	Wave Height Low (ft)	0
S2	03 Nov 2020	High Tide (ft)	5.5
S2	03 Nov 2020	High Tide Time	923
S2	03 Nov 2020	Low Tide (ft)	2.1
S2	03 Nov 2020	Low Tide Time	312
S2	03 Nov 2020	Comments	Kelp; Water turbid; No flow from storm drain; Wave height and current not actually measured due to fog
S2	10 Nov 2020	Arrive Time	950
S2	10 Nov 2020	Weather	Sunny
S2	10 Nov 2020	Wind Speed (kts)	1.6
S2	10 Nov 2020	Wind Dir	NE
S2	10 Nov 2020	Animal Life	10 Shorebirds; 1 Dog
S2	10 Nov 2020	Floatables	None
S2	10 Nov 2020	Water Color	Green
S2	10 Nov 2020	Current Direction	N
S2	10 Nov 2020	Water Temp (C)	14
S2	10 Nov 2020	Wave Height Low (ft)	3
S2	10 Nov 2020	High Tide (ft)	4.7
S2	10 Nov 2020	High Tide Time	531
S2	10 Nov 2020	Low Tide (ft)	1.8
S2	10 Nov 2020	Low Tide Time	1124
S2	10 Nov 2020	Comments	Kelp; 10 Persons; Water clear; No flow from storm drain
S2	17 Nov 2020	Arrive Time	935
S2	17 Nov 2020	Weather	Sunny
S2	17 Nov 2020	Wind Speed (kts)	1.1
S2	17 Nov 2020	Wind Dir	SW
S2	17 Nov 2020	Animal Life	10 Seagulls
S2	17 Nov 2020	Floatables	None
S2	17 Nov 2020	Water Color	Green
S2	17 Nov 2020	Current Direction	N
S2	17 Nov 2020	Water Temp (C)	15
S2	17 Nov 2020	Wave Height Low (ft)	3
S2	17 Nov 2020	High Tide (ft)	6.5
S2	17 Nov 2020	High Tide Time	936
S2	17 Nov 2020	Low Tide (ft)	1.9
S2	17 Nov 2020	Low Tide Time	325
S2	17 Nov 2020	Comments	Kelp; Water turbid; No flow from storm drain
S2	24 Nov 2020	Arrive Time	925
S2	24 Nov 2020	Weather	Sunny

Station	Date	Parameter	Value
S2	24 Nov 2020	Wind Speed (kts)	1.3
S2	24 Nov 2020	Wind Dir	NE
S2	24 Nov 2020	Animal Life	20 Shorebirds; 6 Dogs
S2	24 Nov 2020	Floatables	None
S2	24 Nov 2020	Water Color	Green
S2	24 Nov 2020	Current Direction	N
S2	24 Nov 2020	Water Temp (C)	14
S2	24 Nov 2020	Wave Height Low (ft)	3
S2	24 Nov 2020	High Tide (ft)	4.8
S2	24 Nov 2020	High Tide Time	541
S2	24 Nov 2020	Low Tide (ft)	1.6
S2	24 Nov 2020	Low Tide Time	1204
S2	24 Nov 2020	Comments	Kelp; 6 Persons; Water clear; No flow from storm drain
S3	03 Nov 2020	Arrive Time	810
S3	03 Nov 2020	Weather	Foggy
S3	03 Nov 2020	Wind Speed (kts)	1.1
S3	03 Nov 2020	Wind Dir	NW
S3	03 Nov 2020	Animal Life	None
S3	03 Nov 2020	Floatables	None
S3	03 Nov 2020	Water Color	Green
S3	03 Nov 2020	Current Direction	NW
S3	03 Nov 2020	Water Temp (C)	14
S3	03 Nov 2020	Wave Height Low (ft)	0
S3	03 Nov 2020	High Tide (ft)	5.5
S3	03 Nov 2020	High Tide Time	923
S3	03 Nov 2020	Low Tide (ft)	2.1
S3	03 Nov 2020	Low Tide Time	312
S3	03 Nov 2020	Comments	Kelp; 20 Persons; Water turbid; No flow from storm drain; Wave height and current not actually measured due to fog
S3	10 Nov 2020	Arrive Time	925
S3	10 Nov 2020	Weather	Sunny
S3	10 Nov 2020	Wind Speed (kts)	1.1
S3	10 Nov 2020	Wind Dir	NE
S3	10 Nov 2020	Animal Life	20 Shorebirds; 3 Dogs
S3	10 Nov 2020	Floatables	None
S3	10 Nov 2020	Water Color	Green
S3	10 Nov 2020	Current Direction	N
S3	10 Nov 2020	Water Temp (C)	14
S3	10 Nov 2020	Wave Height Low (ft)	3
S3	10 Nov 2020	High Tide (ft)	4.7
S3	10 Nov 2020	High Tide Time	531
S3	10 Nov 2020	Low Tide (ft)	1.8
S3	10 Nov 2020	Low Tide Time	1124
S3	10 Nov 2020	Comments	Kelp; 10 Persons; Water clear; 0.5 L/sec water flowing from storm drain
S3	17 Nov 2020	Arrive Time	910
S3	17 Nov 2020	Weather	Sunny
S3	17 Nov 2020	Wind Speed (kts)	1
S3	17 Nov 2020	Wind Dir	SW
S3	17 Nov 2020	Animal Life	None
S3	17 Nov 2020	Floatables	None
S3	17 Nov 2020	Water Color	Green
S3	17 Nov 2020	Current Direction	N
S3	17 Nov 2020	Water Temp (C)	15
S3	17 Nov 2020	Wave Height Low (ft)	2
S3	17 Nov 2020	High Tide (ft)	6.5
S3	17 Nov 2020	High Tide Time	936
S3	17 Nov 2020	Low Tide (ft)	1.9

Station	Date	Parameter	Value
S3	17 Nov 2020	Low Tide Time	325
S3	17 Nov 2020	Comments	Kelp; Water turbid; No flow from storm drain
S3	24 Nov 2020	Arrive Time	855
S3	24 Nov 2020	Weather	Sunny
S3	24 Nov 2020	Wind Speed (kts)	1.5
S3	24 Nov 2020	Wind Dir	NE
S3	24 Nov 2020	Animal Life	10 Shorebirds
S3	24 Nov 2020	Floatables	None
S3	24 Nov 2020	Water Color	Green
S3	24 Nov 2020	Current Direction	N
S3	24 Nov 2020	Water Temp (C)	14
S3	24 Nov 2020	Wave Height Low (ft)	3
S3	24 Nov 2020	High Tide (ft)	4.8
S3	24 Nov 2020	High Tide Time	541
S3	24 Nov 2020	Low Tide (ft)	1.6
S3	24 Nov 2020	Low Tide Time	1204
S3	24 Nov 2020	Comments	Water clear; 0.5 L/sec water flowing from storm drain; Municipal patrol on the beach
S4	03 Nov 2020	Arrive Time	930
S4	03 Nov 2020	Weather	Foggy
S4	03 Nov 2020	Wind Speed (kts)	0
S4	03 Nov 2020	Wind Dir	
S4	03 Nov 2020	Animal Life	35 Godwits; 31 Grebes; 1 Pelican; 56 Plovers
S4	03 Nov 2020	Floatables	None
S4	03 Nov 2020	Water Color	Green
S4	03 Nov 2020	Current Direction	N
S4	03 Nov 2020	Water Temp (C)	18.1
S4	03 Nov 2020	Wave Height Low (ft)	3
S4	03 Nov 2020	High Tide (ft)	5.5
S4	03 Nov 2020	High Tide Time	923
S4	03 Nov 2020	Low Tide (ft)	2.1
S4	03 Nov 2020	Low Tide Time	312
S4	03 Nov 2020	Comments	Kelp; Seagrass; Water clear
S4	10 Nov 2020	Arrive Time	1049
S4	10 Nov 2020	Weather	Sunny
S4	10 Nov 2020	Wind Speed (kts)	6.6
S4	10 Nov 2020	Wind Dir	W
S4	10 Nov 2020	Animal Life	151 Godwits; 1 Plover; 2 Terns
S4	10 Nov 2020	Floatables	Foam
S4	10 Nov 2020	Water Color	Green
S4	10 Nov 2020	Current Direction	S
S4	10 Nov 2020	Water Temp (C)	15.4
S4	10 Nov 2020	Wave Height Low (ft)	2
S4	10 Nov 2020	High Tide (ft)	4.7
S4	10 Nov 2020	High Tide Time	531
S4	10 Nov 2020	Low Tide (ft)	1.8
S4	10 Nov 2020	Low Tide Time	1124
S4	10 Nov 2020	Comments	Kelp; Seagrass; Water clear
S4	12 Nov 2020	Arrive Time	1344
S4	12 Nov 2020	Weather	Sunny
S4	12 Nov 2020	Wind Speed (kts)	5.4
S4	12 Nov 2020	Wind Dir	NW
S4	12 Nov 2020	Animal Life	35 Godwits; 4 Grebes; 3 Pelicans
S4	12 Nov 2020	Floatables	None
S4	12 Nov 2020	Water Color	Green
S4	12 Nov 2020	Current Direction	S
S4	12 Nov 2020	Water Temp (C)	16.7

Station	Date	Parameter	Value
S4	12 Nov 2020	Wave Height Low (ft)	1
S4	12 Nov 2020	High Tide (ft)	4.9
S4	12 Nov 2020	High Tide Time	1851
S4	12 Nov 2020	Low Tide (ft)	0.2
S4	12 Nov 2020	Low Tide Time	1259
S4	12 Nov 2020	Comments	Resample; Kelp; Seagrass; Water turbid
S4	17 Nov 2020	Arrive Time	1121
S4	17 Nov 2020	Weather	Sunny
S4	17 Nov 2020	Wind Speed (kts)	4.4
S4	17 Nov 2020	Wind Dir	SW
S4	17 Nov 2020	Animal Life	15 Grebes; 50 Sanderlings
S4	17 Nov 2020	Floatables	Foam; Film
S4	17 Nov 2020	Water Color	Green
S4	17 Nov 2020	Current Direction	S
S4	17 Nov 2020	Water Temp (C)	16.3
S4	17 Nov 2020	Wave Height Low (ft)	5
S4	17 Nov 2020	High Tide (ft)	6.5
S4	17 Nov 2020	High Tide Time	936
S4	17 Nov 2020	Low Tide (ft)	-1
S4	17 Nov 2020	Low Tide Time	1700
S4	17 Nov 2020	Comments	Kelp; Seagrass; Debris; Water clear
S4	24 Nov 2020	Arrive Time	811
S4	24 Nov 2020	Weather	Partly Cloudy
S4	24 Nov 2020	Wind Speed (kts)	3.3
S4	24 Nov 2020	Wind Dir	N
S4	24 Nov 2020	Animal Life	6 Plovers
S4	24 Nov 2020	Floatables	Foam; Film
S4	24 Nov 2020	Water Color	Green
S4	24 Nov 2020	Current Direction	S
S4	24 Nov 2020	Water Temp (C)	15
S4	24 Nov 2020	Wave Height Low (ft)	4
S4	24 Nov 2020	High Tide (ft)	4.8
S4	24 Nov 2020	High Tide Time	541
S4	24 Nov 2020	Low Tide (ft)	1.6
S4	24 Nov 2020	Low Tide Time	1204
S4	24 Nov 2020	Comments	Kelp; Seagrass; Water clear
S5	03 Nov 2020	Arrive Time	1008
S5	03 Nov 2020	Weather	Cloudy
S5	03 Nov 2020	Wind Speed (kts)	1.7
S5	03 Nov 2020	Wind Dir	N
S5	03 Nov 2020	Animal Life	None
S5	03 Nov 2020	Floatables	Foam
S5	03 Nov 2020	Water Color	Green
S5	03 Nov 2020	Current Direction	S
S5	03 Nov 2020	Water Temp (C)	18.1
S5	03 Nov 2020	Wave Height Low (ft)	2
S5	03 Nov 2020	High Tide (ft)	5.5
S5	03 Nov 2020	High Tide Time	923
S5	03 Nov 2020	Low Tide (ft)	0.2
S5	03 Nov 2020	Low Tide Time	1645
S5	03 Nov 2020	Comments	Kelp; Seagrass; 2 Persons; Water clear
S5	10 Nov 2020	Arrive Time	919
S5	10 Nov 2020	Weather	Sunny
S5	10 Nov 2020	Wind Speed (kts)	3.6
S5	10 Nov 2020	Wind Dir	E
S5	10 Nov 2020	Animal Life	1 Dog; 7 Godwits; 21 Seagulls
S5	10 Nov 2020	Floatables	Foam

Station	Date	Parameter	Value
S5	10 Nov 2020	Water Color	Green
S5	10 Nov 2020	Current Direction	S
S5	10 Nov 2020	Water Temp (C)	17.2
S5	10 Nov 2020	Wave Height Low (ft)	2
S5	10 Nov 2020	High Tide (ft)	4.7
S5	10 Nov 2020	High Tide Time	531
S5	10 Nov 2020	Low Tide (ft)	1.8
S5	10 Nov 2020	Low Tide Time	1124
S5	10 Nov 2020	Comments	Kelp; Seagrass; 4 Persons; Water turbid
S5	12 Nov 2020	Arrive Time	1254
S5	12 Nov 2020	Weather	Sunny
S5	12 Nov 2020	Wind Speed (kts)	7.1
S5	12 Nov 2020	Wind Dir	N
S5	12 Nov 2020	Animal Life	16 Godwits; 8 Grebes; 8 Pelicans; 25 Seagulls
S5	12 Nov 2020	Floatables	None
S5	12 Nov 2020	Water Color	Brown
S5	12 Nov 2020	Current Direction	S
S5	12 Nov 2020	Water Temp (C)	17.3
S5	12 Nov 2020	Wave Height Low (ft)	1
S5	12 Nov 2020	High Tide (ft)	4.9
S5	12 Nov 2020	High Tide Time	1851
S5	12 Nov 2020	Low Tide (ft)	0.2
S5	12 Nov 2020	Low Tide Time	1259
S5	12 Nov 2020	Comments	Resample; Kelp; Water turbid
S5	14 Nov 2020	Arrive Time	900
S5	14 Nov 2020	Weather	Sunny
S5	14 Nov 2020	Wind Speed (kts)	5.3
S5	14 Nov 2020	Wind Dir	E
S5	14 Nov 2020	Animal Life	8 Cormorants; 1 Dog; 1 Dolphin; 2 Pelicans
S5	14 Nov 2020	Floatables	Foam
S5	14 Nov 2020	Water Color	Green
S5	14 Nov 2020	Current Direction	S
S5	14 Nov 2020	Water Temp (C)	15.4
S5	14 Nov 2020	Wave Height Low (ft)	3
S5	14 Nov 2020	High Tide (ft)	6.7
S5	14 Nov 2020	High Tide Time	738
S5	14 Nov 2020	Low Tide (ft)	-1
S5	14 Nov 2020	Low Tide Time	1431
S5	14 Nov 2020	Comments	Resample; Kelp; Seagrass; Debris; 3 Persons; Water clear
S5	17 Nov 2020	Arrive Time	904
S5	17 Nov 2020	Weather	Sunny
S5	17 Nov 2020	Wind Speed (kts)	2.5
S5	17 Nov 2020	Wind Dir	NW
S5	17 Nov 2020	Animal Life	2 Dogs
S5	17 Nov 2020	Floatables	Foam; Film
S5	17 Nov 2020	Water Color	Green
S5	17 Nov 2020	Current Direction	S
S5	17 Nov 2020	Water Temp (C)	16.2
S5	17 Nov 2020	Wave Height Low (ft)	3
S5	17 Nov 2020	High Tide (ft)	6.5
S5	17 Nov 2020	High Tide Time	936
S5	17 Nov 2020	Low Tide (ft)	1.9
S5	17 Nov 2020	Low Tide Time	325
S5	17 Nov 2020	Comments	Kelp; Seagrass; Debris; 2 Persons; Water clear
S5	24 Nov 2020	Arrive Time	853
S5	24 Nov 2020	Weather	Partly Cloudy
S5	24 Nov 2020	Wind Speed (kts)	2.9

Station	Date	Parameter	Value
S5	24 Nov 2020	Wind Dir	SE
S5	24 Nov 2020	Animal Life	20 Godwits; 4 Plovers; 2 Terns; 1 Crane
S5	24 Nov 2020	Floatables	Foam; Film
S5	24 Nov 2020	Water Color	Green
S5	24 Nov 2020	Current Direction	S
S5	24 Nov 2020	Water Temp (C)	16.2
S5	24 Nov 2020	Wave Height Low (ft)	3
S5	24 Nov 2020	High Tide (ft)	4.8
S5	24 Nov 2020	High Tide Time	541
S5	24 Nov 2020	Low Tide (ft)	1.6
S5	24 Nov 2020	Low Tide Time	1204
S5	24 Nov 2020	Comments	Sewage-like odor; 1 Person; Water clear
S6	03 Nov 2020	Arrive Time	1032
S6	03 Nov 2020	Weather	Cloudy
S6	03 Nov 2020	Wind Speed (kts)	1.5
S6	03 Nov 2020	Wind Dir	N
S6	03 Nov 2020	Animal Life	3 Pelicans
S6	03 Nov 2020	Floatables	Foam
S6	03 Nov 2020	Water Color	Green
S6	03 Nov 2020	Current Direction	S
S6	03 Nov 2020	Water Temp (C)	18.8
S6	03 Nov 2020	Wave Height Low (ft)	2
S6	03 Nov 2020	High Tide (ft)	5.5
S6	03 Nov 2020	High Tide Time	923
S6	03 Nov 2020	Low Tide (ft)	0.2
S6	03 Nov 2020	Low Tide Time	1645
S6	03 Nov 2020	Comments	Kelp; Seagrass; Water clear
S6	10 Nov 2020	Arrive Time	941
S6	10 Nov 2020	Weather	Sunny
S6	10 Nov 2020	Wind Speed (kts)	5.4
S6	10 Nov 2020	Wind Dir	W
S6	10 Nov 2020	Animal Life	7 Godwits; 1 Tern
S6	10 Nov 2020	Floatables	Foam
S6	10 Nov 2020	Water Color	Green
S6	10 Nov 2020	Current Direction	S
S6	10 Nov 2020	Water Temp (C)	20.5
S6	10 Nov 2020	Wave Height Low (ft)	3
S6	10 Nov 2020	High Tide (ft)	4.7
S6	10 Nov 2020	High Tide Time	531
S6	10 Nov 2020	Low Tide (ft)	1.8
S6	10 Nov 2020	Low Tide Time	1124
S6	10 Nov 2020	Comments	Kelp; Seagrass; 6 Persons; Water clear
S6	17 Nov 2020	Arrive Time	922
S6	17 Nov 2020	Weather	Sunny
S6	17 Nov 2020	Wind Speed (kts)	2.7
S6	17 Nov 2020	Wind Dir	W
S6	17 Nov 2020	Animal Life	2 Cormorants; 1 Dog
S6	17 Nov 2020	Floatables	Foam; Film
S6	17 Nov 2020	Water Color	Green
S6	17 Nov 2020	Current Direction	S
S6	17 Nov 2020	Water Temp (C)	15
S6	17 Nov 2020	Wave Height Low (ft)	4
S6	17 Nov 2020	High Tide (ft)	6.5
S6	17 Nov 2020	High Tide Time	936
S6	17 Nov 2020	Low Tide (ft)	1.9
S6	17 Nov 2020	Low Tide Time	325
S6	17 Nov 2020	Comments	Kelp; Seagrass; Debris; 6 Persons; Water clear

Station	Date	Parameter	Value
S6	24 Nov 2020	Arrive Time	909
S6	24 Nov 2020	Weather	Partly Cloudy
S6	24 Nov 2020	Wind Speed (kts)	3.4
S6	24 Nov 2020	Wind Dir	SE
S6	24 Nov 2020	Animal Life	1 Godwit; 1 Plover
S6	24 Nov 2020	Floatables	Foam; Film
S6	24 Nov 2020	Water Color	Green
S6	24 Nov 2020	Current Direction	S
S6	24 Nov 2020	Water Temp (C)	16.7
S6	24 Nov 2020	Wave Height Low (ft)	3
S6	24 Nov 2020	High Tide (ft)	4.8
S6	24 Nov 2020	High Tide Time	541
S6	24 Nov 2020	Low Tide (ft)	1.6
S6	24 Nov 2020	Low Tide Time	1204
S6	24 Nov 2020	Comments	Kelp; Seagrass; 7 Persons; Water clear
S8	03 Nov 2020	Arrive Time	907
S8	03 Nov 2020	Weather	Foggy
S8	03 Nov 2020	Wind Speed (kts)	6.4
S8	03 Nov 2020	Wind Dir	W
S8	03 Nov 2020	Animal Life	100 Cormorants; 4 Dolphins; 100 Seagulls
S8	03 Nov 2020	Floatables	Foam
S8	03 Nov 2020	Water Color	Green
S8	03 Nov 2020	Current Direction	S
S8	03 Nov 2020	Water Temp (C)	16
S8	03 Nov 2020	Wave Height Low (ft)	3
S8	03 Nov 2020	High Tide (ft)	5.5
S8	03 Nov 2020	High Tide Time	923
S8	03 Nov 2020	Low Tide (ft)	2.1
S8	03 Nov 2020	Low Tide Time	312
S8	03 Nov 2020	Comments	Kelp; Seagrass; 5 Persons; Water clear
S8	10 Nov 2020	Arrive Time	828
S8	10 Nov 2020	Weather	Sunny
S8	10 Nov 2020	Wind Speed (kts)	1.9
S8	10 Nov 2020	Wind Dir	E
S8	10 Nov 2020	Animal Life	1 Godwit; 15 Plovers; 1 Sanderling; 6 Seagulls
S8	10 Nov 2020	Floatables	Foam
S8	10 Nov 2020	Water Color	Green
S8	10 Nov 2020	Current Direction	N
S8	10 Nov 2020	Water Temp (C)	15.3
S8	10 Nov 2020	Wave Height Low (ft)	1
S8	10 Nov 2020	High Tide (ft)	4.7
S8	10 Nov 2020	High Tide Time	531
S8	10 Nov 2020	Low Tide (ft)	1.8
S8	10 Nov 2020	Low Tide Time	1124
S8	10 Nov 2020	Comments	Kelp; Water clear
S8	17 Nov 2020	Arrive Time	803
S8	17 Nov 2020	Weather	Sunny
S8	17 Nov 2020	Wind Speed (kts)	3.4
S8	17 Nov 2020	Wind Dir	E
S8	17 Nov 2020	Animal Life	4 Seagulls
S8	17 Nov 2020	Floatables	Foam
S8	17 Nov 2020	Water Color	Green
S8	17 Nov 2020	Current Direction	N
S8	17 Nov 2020	Water Temp (C)	15.4
S8	17 Nov 2020	Wave Height Low (ft)	2
S8	17 Nov 2020	High Tide (ft)	6.5
S8	17 Nov 2020	High Tide Time	936
S8	17 Nov 2020	Low Tide (ft)	1.9

Station	Date	Parameter	Value
S8	17 Nov 2020	Low Tide Time	325
S8	17 Nov 2020	Comments	Kelp; Seagrass; 7 Persons; 1 Boat; Water clear
S8	24 Nov 2020	Arrive Time	1012
S8	24 Nov 2020	Weather	Sunny
S8	24 Nov 2020	Wind Speed (kts)	1.3
S8	24 Nov 2020	Wind Dir	W
S8	24 Nov 2020	Animal Life	None
S8	24 Nov 2020	Floatables	Foam
S8	24 Nov 2020	Water Color	Green
S8	24 Nov 2020	Current Direction	S
S8	24 Nov 2020	Water Temp (C)	17.8
S8	24 Nov 2020	Wave Height Low (ft)	4
S8	24 Nov 2020	High Tide (ft)	4.8
S8	24 Nov 2020	High Tide Time	541
S8	24 Nov 2020	Low Tide (ft)	1.6
S8	24 Nov 2020	Low Tide Time	1204
S8	24 Nov 2020	Comments	Kelp; Seagrass; 10 Persons; Water clear
S9	03 Nov 2020	Arrive Time	849
S9	03 Nov 2020	Weather	Foggy
S9	03 Nov 2020	Wind Speed (kts)	4.6
S9	03 Nov 2020	Wind Dir	W
S9	03 Nov 2020	Animal Life	1 Godwit; 1 Seagull
S9	03 Nov 2020	Floatables	Foam
S9	03 Nov 2020	Water Color	Green
S9	03 Nov 2020	Current Direction	S
S9	03 Nov 2020	Water Temp (C)	15
S9	03 Nov 2020	Wave Height Low (ft)	3
S9	03 Nov 2020	High Tide (ft)	5.5
S9	03 Nov 2020	High Tide Time	923
S9	03 Nov 2020	Low Tide (ft)	2.1
S9	03 Nov 2020	Low Tide Time	312
S9	03 Nov 2020	Comments	Kelp; Seagrass; 4 Persons; 1 Surfer; Water clear
S9	10 Nov 2020	Arrive Time	810
S9	10 Nov 2020	Weather	Sunny
S9	10 Nov 2020	Wind Speed (kts)	0
S9	10 Nov 2020	Wind Dir	
S9	10 Nov 2020	Animal Life	2 Cormorants; 1 Seagull
S9	10 Nov 2020	Floatables	Foam
S9	10 Nov 2020	Water Color	Green
S9	10 Nov 2020	Current Direction	N
S9	10 Nov 2020	Water Temp (C)	14.9
S9	10 Nov 2020	Wave Height Low (ft)	1
S9	10 Nov 2020	High Tide (ft)	4.7
S9	10 Nov 2020	High Tide Time	531
S9	10 Nov 2020	Low Tide (ft)	1.8
S9	10 Nov 2020	Low Tide Time	1124
S9	10 Nov 2020	Comments	Kelp; Seagrass; 3 Joggers; 1 Person; Water clear
S9	17 Nov 2020	Arrive Time	730
S9	17 Nov 2020	Weather	Sunny
S9	17 Nov 2020	Wind Speed (kts)	1.5
S9	17 Nov 2020	Wind Dir	E
S9	17 Nov 2020	Animal Life	None
S9	17 Nov 2020	Floatables	Foam
S9	17 Nov 2020	Water Color	Green
S9	17 Nov 2020	Current Direction	S
S9	17 Nov 2020	Water Temp (C)	15.6
S9	17 Nov 2020	Wave Height Low (ft)	2

Station	Date	Parameter	Value
S9	17 Nov 2020	High Tide (ft)	6.5
S9	17 Nov 2020	High Tide Time	936
S9	17 Nov 2020	Low Tide (ft)	1.9
S9	17 Nov 2020	Low Tide Time	325
S9	17 Nov 2020	Comments	Kelp; Seagrass; 2 Joggers; 4 Persons; Water clear; 1 Jet ski
S9	24 Nov 2020	Arrive Time	1033
S9	24 Nov 2020	Weather	Sunny
S9	24 Nov 2020	Wind Speed (kts)	2.3
S9	24 Nov 2020	Wind Dir	W
S9	24 Nov 2020	Animal Life	None
S9	24 Nov 2020	Floatables	Foam; Film
S9	24 Nov 2020	Water Color	Green
S9	24 Nov 2020	Current Direction	S
S9	24 Nov 2020	Water Temp (C)	17.2
S9	24 Nov 2020	Wave Height Low (ft)	3
S9	24 Nov 2020	High Tide (ft)	4.8
S9	24 Nov 2020	High Tide Time	541
S9	24 Nov 2020	Low Tide (ft)	1.6
S9	24 Nov 2020	Low Tide Time	1204
S9	24 Nov 2020	Comments	Kelp; Seagrass; 1 Jogger; 19 Persons; 2 Boats; 4 Swimmers; Water clear
S10	03 Nov 2020	Arrive Time	917
S10	03 Nov 2020	Weather	Foggy
S10	03 Nov 2020	Wind Speed (kts)	0.1
S10	03 Nov 2020	Wind Dir	W
S10	03 Nov 2020	Animal Life	None
S10	03 Nov 2020	Floatables	Foam
S10	03 Nov 2020	Water Color	Green
S10	03 Nov 2020	Current Direction	N
S10	03 Nov 2020	Water Temp (C)	18.3
S10	03 Nov 2020	Wave Height Low (ft)	2
S10	03 Nov 2020	High Tide (ft)	5.5
S10	03 Nov 2020	High Tide Time	923
S10	03 Nov 2020	Low Tide (ft)	2.1
S10	03 Nov 2020	Low Tide Time	312
S10	03 Nov 2020	Comments	Kelp; Seagrass; Water clear
S10	10 Nov 2020	Arrive Time	1025
S10	10 Nov 2020	Weather	Sunny
S10	10 Nov 2020	Wind Speed (kts)	6.4
S10	10 Nov 2020	Wind Dir	W
S10	10 Nov 2020	Animal Life	2 Godwits; 2 Pelicans; 7 Plovers
S10	10 Nov 2020	Floatables	Foam
S10	10 Nov 2020	Water Color	Green
S10	10 Nov 2020	Current Direction	S
S10	10 Nov 2020	Water Temp (C)	16.2
S10	10 Nov 2020	Wave Height Low (ft)	2
S10	10 Nov 2020	High Tide (ft)	4.7
S10	10 Nov 2020	High Tide Time	531
S10	10 Nov 2020	Low Tide (ft)	1.8
S10	10 Nov 2020	Low Tide Time	1124
S10	10 Nov 2020	Comments	Kelp; Seagrass; Debris; 1 Boat; Water clear; Debris 1
S10	12 Nov 2020	Arrive Time	1337
S10	12 Nov 2020	Weather	Sunny
S10	12 Nov 2020	Wind Speed (kts)	6
S10	12 Nov 2020	Wind Dir	NW
S10	12 Nov 2020	Animal Life	3 Pelicans; 2 Seagulls
S10	12 Nov 2020	Floatables	None

Station	Date	Parameter	Value
S10	12 Nov 2020	Water Color	Green
S10	12 Nov 2020	Current Direction	S
S10	12 Nov 2020	Water Temp (C)	16.7
S10	12 Nov 2020	Wave Height Low (ft)	1
S10	12 Nov 2020	High Tide (ft)	4.9
S10	12 Nov 2020	High Tide Time	1851
S10	12 Nov 2020	Low Tide (ft)	0.2
S10	12 Nov 2020	Low Tide Time	1259
S10	12 Nov 2020	Comments	Resample; Kelp; Seagrass; Water turbid
S10	17 Nov 2020	Arrive Time	1108
S10	17 Nov 2020	Weather	Sunny
S10	17 Nov 2020	Wind Speed (kts)	4.2
S10	17 Nov 2020	Wind Dir	W
S10	17 Nov 2020	Animal Life	1 Godwit
S10	17 Nov 2020	Floatables	Foam; Tampons
S10	17 Nov 2020	Water Color	Green
S10	17 Nov 2020	Current Direction	S
S10	17 Nov 2020	Water Temp (C)	15.8
S10	17 Nov 2020	Wave Height Low (ft)	5
S10	17 Nov 2020	High Tide (ft)	6.5
S10	17 Nov 2020	High Tide Time	936
S10	17 Nov 2020	Low Tide (ft)	-1
S10	17 Nov 2020	Low Tide Time	1700
S10	17 Nov 2020	Comments	Kelp; Seagrass; Debris; 1 Boat; Water clear
S10	24 Nov 2020	Arrive Time	803
S10	24 Nov 2020	Weather	Partly Cloudy
S10	24 Nov 2020	Wind Speed (kts)	3.8
S10	24 Nov 2020	Wind Dir	E
S10	24 Nov 2020	Animal Life	12 Grebes; 30 Seagulls
S10	24 Nov 2020	Floatables	Foam
S10	24 Nov 2020	Water Color	Green
S10	24 Nov 2020	Current Direction	S
S10	24 Nov 2020	Water Temp (C)	15.3
S10	24 Nov 2020	Wave Height Low (ft)	3
S10	24 Nov 2020	High Tide (ft)	4.8
S10	24 Nov 2020	High Tide Time	541
S10	24 Nov 2020	Low Tide (ft)	1.6
S10	24 Nov 2020	Low Tide Time	1204
S10	24 Nov 2020	Comments	Kelp; Seagrass; Water clear
S11	03 Nov 2020	Arrive Time	1017
S11	03 Nov 2020	Weather	Cloudy
S11	03 Nov 2020	Wind Speed (kts)	4.2
S11	03 Nov 2020	Wind Dir	N
S11	03 Nov 2020	Animal Life	5 Godwits
S11	03 Nov 2020	Floatables	Foam
S11	03 Nov 2020	Water Color	Green
S11	03 Nov 2020	Current Direction	S
S11	03 Nov 2020	Water Temp (C)	18.4
S11	03 Nov 2020	Wave Height Low (ft)	3
S11	03 Nov 2020	High Tide (ft)	5.5
S11	03 Nov 2020	High Tide Time	923
S11	03 Nov 2020	Low Tide (ft)	0.2
S11	03 Nov 2020	Low Tide Time	1645
S11	03 Nov 2020	Comments	Kelp; Seagrass; 2 Surfers; Water clear
S11	10 Nov 2020	Arrive Time	933
S11	10 Nov 2020	Weather	Sunny
S11	10 Nov 2020	Wind Speed (kts)	4.2

Station	Date	Parameter	Value
S11	10 Nov 2020	Wind Dir	W
S11	10 Nov 2020	Animal Life	None
S11	10 Nov 2020	Floatables	Foam
S11	10 Nov 2020	Water Color	Brown
S11	10 Nov 2020	Current Direction	S
S11	10 Nov 2020	Water Temp (C)	20.2
S11	10 Nov 2020	Wave Height Low (ft)	2
S11	10 Nov 2020	High Tide (ft)	4.7
S11	10 Nov 2020	High Tide Time	531
S11	10 Nov 2020	Low Tide (ft)	1.8
S11	10 Nov 2020	Low Tide Time	1124
S11	10 Nov 2020	Comments	Kelp; 1 Person; Water turbid
S11	17 Nov 2020	Arrive Time	914
S11	17 Nov 2020	Weather	Sunny
S11	17 Nov 2020	Wind Speed (kts)	3.3
S11	17 Nov 2020	Wind Dir	NW
S11	17 Nov 2020	Animal Life	1 Dog
S11	17 Nov 2020	Floatables	Foam; Dead Animals; Film
S11	17 Nov 2020	Water Color	Green
S11	17 Nov 2020	Current Direction	S
S11	17 Nov 2020	Water Temp (C)	15.5
S11	17 Nov 2020	Wave Height Low (ft)	4
S11	17 Nov 2020	High Tide (ft)	6.5
S11	17 Nov 2020	High Tide Time	936
S11	17 Nov 2020	Low Tide (ft)	1.9
S11	17 Nov 2020	Low Tide Time	325
S11	17 Nov 2020	Comments	Kelp; Seagrass; Debris; 2 Persons; Water clear
S11	24 Nov 2020	Arrive Time	901
S11	24 Nov 2020	Weather	Partly Cloudy
S11	24 Nov 2020	Wind Speed (kts)	3.6
S11	24 Nov 2020	Wind Dir	SE
S11	24 Nov 2020	Animal Life	None
S11	24 Nov 2020	Floatables	Foam; Film; Detergent
S11	24 Nov 2020	Water Color	Green
S11	24 Nov 2020	Current Direction	S
S11	24 Nov 2020	Water Temp (C)	15.8
S11	24 Nov 2020	Wave Height Low (ft)	5
S11	24 Nov 2020	High Tide (ft)	4.8
S11	24 Nov 2020	High Tide Time	541
S11	24 Nov 2020	Low Tide (ft)	1.6
S11	24 Nov 2020	Low Tide Time	1204
S11	24 Nov 2020	Comments	Kelp; Seagrass; 1 Person; 3 Surfers; Water clear
S12	03 Nov 2020	Arrive Time	925
S12	03 Nov 2020	Weather	Foggy
S12	03 Nov 2020	Wind Speed (kts)	5.6
S12	03 Nov 2020	Wind Dir	W
S12	03 Nov 2020	Animal Life	1 Godwit; 8 Pelicans; 2 Seagulls
S12	03 Nov 2020	Floatables	Foam
S12	03 Nov 2020	Water Color	Green
S12	03 Nov 2020	Current Direction	S
S12	03 Nov 2020	Water Temp (C)	16
S12	03 Nov 2020	Wave Height Low (ft)	4
S12	03 Nov 2020	High Tide (ft)	5.5
S12	03 Nov 2020	High Tide Time	923
S12	03 Nov 2020	Low Tide (ft)	2.1
S12	03 Nov 2020	Low Tide Time	312
S12	03 Nov 2020	Comments	Kelp; Seagrass; 1 Jogger; 7 Persons; 2 Fishermen; Water clear

Station	Date	Parameter	Value
S12	10 Nov 2020	Arrive Time	853
S12	10 Nov 2020	Weather	Sunny
S12	10 Nov 2020	Wind Speed (kts)	1.1
S12	10 Nov 2020	Wind Dir	E
S12	10 Nov 2020	Animal Life	1 Godwit; 1 Seagull
S12	10 Nov 2020	Floatables	Foam
S12	10 Nov 2020	Water Color	Green
S12	10 Nov 2020	Current Direction	S
S12	10 Nov 2020	Water Temp (C)	16.6
S12	10 Nov 2020	Wave Height Low (ft)	2
S12	10 Nov 2020	High Tide (ft)	4.7
S12	10 Nov 2020	High Tide Time	531
S12	10 Nov 2020	Low Tide (ft)	1.8
S12	10 Nov 2020	Low Tide Time	1124
S12	10 Nov 2020	Comments	Kelp; Seagrass; Debris; 3 Persons; 1 Fisherman; Water clear; Debris 1
S12	17 Nov 2020	Arrive Time	841
S12	17 Nov 2020	Weather	Sunny
S12	17 Nov 2020	Wind Speed (kts)	1.9
S12	17 Nov 2020	Wind Dir	W
S12	17 Nov 2020	Animal Life	2 Cormorants; 1 Dog
S12	17 Nov 2020	Floatables	Foam; Film
S12	17 Nov 2020	Water Color	Green
S12	17 Nov 2020	Current Direction	N
S12	17 Nov 2020	Water Temp (C)	15.2
S12	17 Nov 2020	Wave Height Low (ft)	2
S12	17 Nov 2020	High Tide (ft)	6.5
S12	17 Nov 2020	High Tide Time	936
S12	17 Nov 2020	Low Tide (ft)	1.9
S12	17 Nov 2020	Low Tide Time	325
S12	17 Nov 2020	Comments	Kelp; Seagrass; 3 Persons; Water clear
S12	24 Nov 2020	Arrive Time	919
S12	24 Nov 2020	Weather	Partly Cloudy
S12	24 Nov 2020	Wind Speed (kts)	2.7
S12	24 Nov 2020	Wind Dir	SE
S12	24 Nov 2020	Animal Life	21 Godwits; 1 Seagull
S12	24 Nov 2020	Floatables	Foam; Film; Detergent
S12	24 Nov 2020	Water Color	Green
S12	24 Nov 2020	Current Direction	S
S12	24 Nov 2020	Water Temp (C)	17.3
S12	24 Nov 2020	Wave Height Low (ft)	3
S12	24 Nov 2020	High Tide (ft)	4.8
S12	24 Nov 2020	High Tide Time	541
S12	24 Nov 2020	Low Tide (ft)	1.6
S12	24 Nov 2020	Low Tide Time	1204
S12	24 Nov 2020	Comments	Kelp; Seagrass; 1 Jogger; 6 Persons; Water clear

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Kelp Stations

Table 3.1

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

Date	I19	I24	I25	I26	I32	I39	I40
01 Nov 2020	20*	16*	24*	9*	10*	12*	26*
02 Nov 2020	20	21	19	9	10	9	20
03 Nov 2020	20	21	19	9	10	9	20
04 Nov 2020	15*	17*	15*	7*	9*	7*	17*
05 Nov 2020	15*	17*	15*	7*	9*	7*	17*
06 Nov 2020	15*	17*	15*	7*	9*	7*	17*
07 Nov 2020	15*	17*	15*	7*	9*	7*	17*
08 Nov 2020	15*	17*	15*	7*	9*	7*	17*
09 Nov 2020	15*	17*	15*	7*	9*	7*	17*
10 Nov 2020	15*	17*	15*	7*	9*	7*	17*
11 Nov 2020	24	48	49	6	10	5	52
12 Nov 2020	25*	43*	61*	3*	8*	5*	46*
13 Nov 2020	25*	43*	61*	3*	8*	5*	46*
14 Nov 2020	25*	43*	61*	3*	8*	5*	46*
15 Nov 2020	25*	43*	61*	3*	8*	5*	46*
16 Nov 2020	25*	43*	61*	3*	8*	5*	46*
17 Nov 2020	20	25	31	3	10	4	39
18 Nov 2020	20	25	31	3	10	4	39
19 Nov 2020	25*	31*	48*	3*	10*	2*	52*
20 Nov 2020	25*	31*	48*	3*	10*	2*	52*
21 Nov 2020	25*	31*	48*	3*	10*	2*	52*
22 Nov 2020	25*	31*	48*	3*	10*	2*	52*
23 Nov 2020	20	18	33	3	10	4	36
24 Nov 2020	20	18	33	3	10	4	36
25 Nov 2020	20	18	33	3	10	4	36
26 Nov 2020	20	18	33	3	10	4	36
27 Nov 2020	21*	31*	28*	3*	14*	5*	49*
28 Nov 2020	21*	31*	28*	3*	14*	5*	49*
29 Nov 2020	21*	31*	28*	3*	14*	5*	49*
30 Nov 2020	21*	31*	28*	3*	14*	5*	49*

* Geometric mean calculated using n<5

Table 3.2

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

Date	I19	I24	I25	I26	I32	I39	I40
01 Nov 2020	3*	2*	2*	2*	2*	2*	3*
02 Nov 2020	3	2	2	2	2	2	3
03 Nov 2020	3	2	2	2	2	2	3
04 Nov 2020	2*	2*	2*	2*	2*	2*	2*
05 Nov 2020	2*	2*	2*	2*	2*	2*	2*
06 Nov 2020	2*	2*	2*	2*	2*	2*	2*
07 Nov 2020	2*	2*	2*	2*	2*	2*	2*
08 Nov 2020	2*	2*	2*	2*	2*	2*	2*
09 Nov 2020	2*	2*	2*	2*	2*	2*	2*
10 Nov 2020	2*	2*	2*	2*	2*	2*	2*
11 Nov 2020	4	6	7	2	2	2	6
12 Nov 2020	4*	8*	9*	2*	2*	2*	8*
13 Nov 2020	4*	8*	9*	2*	2*	2*	8*
14 Nov 2020	4*	8*	9*	2*	2*	2*	8*
15 Nov 2020	4*	8*	9*	2*	2*	2*	8*
16 Nov 2020	4*	8*	9*	2*	2*	2*	8*
17 Nov 2020	4	6	7	2	2	2	6
18 Nov 2020	4	6	7	2	2	2	6
19 Nov 2020	4*	8*	9*	2*	2*	2*	7*
20 Nov 2020	4*	8*	9*	2*	2*	2*	7*
21 Nov 2020	4*	8*	9*	2*	2*	2*	7*
22 Nov 2020	4*	8*	9*	2*	2*	2*	7*
23 Nov 2020	3	6	6	2	2	2	6
24 Nov 2020	3	6	6	2	2	2	6
25 Nov 2020	3	6	6	2	2	2	6
26 Nov 2020	3	6	6	2	2	2	6
27 Nov 2020	4*	7*	9*	2*	2*	2*	7*
28 Nov 2020	4*	7*	9*	2*	2*	2*	7*
29 Nov 2020	4*	7*	9*	2*	2*	2*	7*
30 Nov 2020	4*	7*	9*	2*	2*	2*	7*

* Geometric mean calculated using n<5

Table 3.3

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

Date	I19	I24	I25	I26	I32	I39	I40
01 Nov 2020	3*	2*	2*	2*	2*	2*	2*
02 Nov 2020	5	2	2	2	2	2	2
03 Nov 2020	5	2	2	2	2	2	2
04 Nov 2020	4*	2*	2*	2*	2*	2*	2*
05 Nov 2020	4*	2*	2*	2*	2*	2*	2*
06 Nov 2020	4*	2*	2*	2*	2*	2*	2*
07 Nov 2020	4*	2*	2*	2*	2*	2*	2*
08 Nov 2020	4*	2*	2*	2*	2*	2*	2*
09 Nov 2020	4*	2*	2*	2*	2*	2*	2*
10 Nov 2020	4*	2*	2*	2*	2*	2*	2*
11 Nov 2020	3	2	3	2	2	2	2
12 Nov 2020	4*	2*	3*	2*	2*	2*	2*
13 Nov 2020	4*	2*	3*	2*	2*	2*	2*
14 Nov 2020	4*	2*	3*	2*	2*	2*	2*
15 Nov 2020	4*	2*	3*	2*	2*	2*	2*
16 Nov 2020	4*	2*	3*	2*	2*	2*	2*
17 Nov 2020	3	2	3	2	2	2	2
18 Nov 2020	3	2	3	2	2	2	2
19 Nov 2020	4*	2*	3*	2*	2*	2*	2*
20 Nov 2020	4*	2*	3*	2*	2*	2*	2*
21 Nov 2020	4*	2*	3*	2*	2*	2*	2*
22 Nov 2020	4*	2*	3*	2*	2*	2*	2*
23 Nov 2020	3	2	3	2	2	2	2
24 Nov 2020	3	2	3	2	2	2	2
25 Nov 2020	3	2	3	2	2	2	2
26 Nov 2020	3	2	3	2	2	2	2
27 Nov 2020	4*	2*	3*	2*	2*	2*	2*
28 Nov 2020	4*	2*	3*	2*	2*	2*	2*
29 Nov 2020	4*	2*	3*	2*	2*	2*	2*
30 Nov 2020	4*	2*	3*	2*	2*	2*	2*

* Geometric mean calculated using n<5

Table 3.4

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

Date	I19	I24	I25	I26	I32	I39	I40
02 Nov 2020	IC	IC	IC	IC	IC	IC	IC
11 Nov 2020	IC	IC	E	IC	IC	IC	IC
17 Nov 2020	IC	IC	IC	IC	IC	IC	IC
23 Nov 2020	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.5

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

Date	I19	I24	I25	I26	I32	I39	I40
02 Nov 2020	IC	IC	IC	IC	IC	IC	IC
11 Nov 2020	IC	IC	E	IC	IC	IC	E
17 Nov 2020	IC	IC	IC	IC	IC	IC	IC
23 Nov 2020	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.6

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

Date	I19	I24	I25	I26	I32	I39	I40
02 Nov 2020	IC	IC	IC	IC	IC	IC	IC
11 Nov 2020	IC	IC	IC	IC	IC	IC	IC
17 Nov 2020	IC	IC	IC	IC	IC	IC	IC
23 Nov 2020	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.7

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

Date	I19	I24	I25	I26	I32	I39	I40
02 Nov 2020	IC	IC	IC	IC	IC	IC	IC
11 Nov 2020	IC	IC	E	IC	IC	IC	E
17 Nov 2020	IC	IC	IC	IC	IC	IC	IC
23 Nov 2020	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.8

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

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH
I19	02 Nov 2020	1115	2	8e	2e	28e	0.25	18.2	76.13	8.2	33.49	8.2
I19	02 Nov 2020	1115	6	40e	4e	32e	0.10	17.9	78.59	8.0	33.50	8.2
I19	02 Nov 2020	1115	11	18e	2e	12e	0.11	17.8	79.96	7.8	33.50	8.2
I19	11 Nov 2020	1059	2	100e	52	2e	0.52	15.0	64.04	7.2	33.52	8.0
I19	11 Nov 2020	1059	6	140e	6e	<2	0.04	13.8	67.42	6.0	33.50	8.0
I19	11 Nov 2020	1059	11	<200	12e	<2	0.06	13.4	47.73	5.9	33.49	8.0
I19	17 Nov 2020	1124	2	<2	<2	<2	1.00	14.9	79.30	7.7	33.55	8.0
I19	17 Nov 2020	1124	6	<20	<2	<2	0.10	14.6	77.07	7.6	33.54	8.0
I19	17 Nov 2020	1124	11	2e	<2	<2	1.00	13.7	56.00	6.2	33.54	7.9
I19	23 Nov 2020	1033	2	2e	<2	<2	1.00	14.5	71.92	7.7	33.53	8.0
I19	23 Nov 2020	1033	6	<2	<2	<2	1.00	14.2	75.49	7.2	33.52	8.0
I19	23 Nov 2020	1033	11	<20	<2	<2	0.10	13.9	73.36	6.8	33.52	7.9
I24	02 Nov 2020	1138	2	<20	2e	<2	0.10	17.8	83.12	8.0	33.51	8.2
I24	02 Nov 2020	1138	6	120e	4e	<2	0.03	17.0	78.75	7.5	33.48	8.2
I24	02 Nov 2020	1138	11	<20	<2	2e	0.10	16.4	78.40	6.8	33.47	8.1
I24	11 Nov 2020	1122	2	1200e	120e	2e	0.10	15.1	57.61	6.8	33.52	8.0
I24	11 Nov 2020	1122	6	4600	340e	4e	0.07	14.5	63.95	6.5	33.51	8.0
I24	11 Nov 2020	1122	11	3600e	300e	8e	0.08	13.6	53.08	5.5	33.50	7.9
I24	17 Nov 2020	1147	2	<2	<2	<2	1.00	15.2	77.84	7.7	33.56	8.0
I24	17 Nov 2020	1147	6	4e	<2	<2	0.50	14.5	67.54	7.6	33.55	8.0
I24	17 Nov 2020	1147	11	<2	<2	<2	1.00	13.7	65.08	6.2	33.54	7.9
I24	23 Nov 2020	1051	2	<2	<2	<2	1.00	14.8	78.74	7.5	33.53	8.0
I24	23 Nov 2020	1051	6	<2	<2	<2	1.00	14.6	80.58	7.4	33.54	8.0
I24	23 Nov 2020	1051	11	<2	<2	<2	1.00	13.7	79.02	6.2	33.53	7.9
I25	02 Nov 2020	1145	2	<2	<2	<2	1.00	18.5	85.37	8.2	33.52	8.2
I25	02 Nov 2020	1145	6	8e	2e	<2	0.25	17.3	80.92	7.8	33.49	8.2
I25	02 Nov 2020	1145	9	10e	4e	<2	0.40	16.5	78.49	6.7	33.47	8.1
I25	11 Nov 2020	1129	2	4000	420	8e	0.10	14.7	61.23	6.5	33.52	8.0
I25	11 Nov 2020	1129	6	11000	840	22e	0.08	14.2	56.07	6.1	33.50	8.0
I25	11 Nov 2020	1129	9	2200e	280e	2e	0.13	13.6	73.03	5.8	33.51	8.0
I25	17 Nov 2020	1156	2	<2	<2	<2	1.00	15.2	81.51	7.6	33.56	8.0
I25	17 Nov 2020	1156	6	2e	<2	<2	1.00	14.6	82.69	7.2	33.54	8.0
I25	17 Nov 2020	1156	9	<2	<2	<2	1.00	14.1	78.92	6.6	33.54	7.9
I25	23 Nov 2020	1058	2	<2	<2	<2	1.00	14.9	79.99	7.8	33.54	8.0
I25	23 Nov 2020	1058	6	<20	<2	<2	0.10	14.7	80.55	7.5	33.53	8.0
I25	23 Nov 2020	1058	9	<2	<2	<2	1.00	13.8	82.94	6.6	33.53	7.9
I26	02 Nov 2020	1156	2	<20	<2	<2	0.10	18.4	83.81	8.2	33.52	8.2
I26	02 Nov 2020	1156	6	<2	<2	<2	1.00	17.7	82.24	8.3	33.51	8.2
I26	02 Nov 2020	1156	9	<2	<2	<2	1.00	16.9	80.06	7.0	33.48	8.2

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH
I26	11 Nov 2020	1141	2	<2	<2	<2	1.00	14.5	79.31	6.7	33.52	8.0
I26	11 Nov 2020	1141	6	<2	<2	<2	1.00	14.3	82.09	6.5	33.52	8.0
I26	11 Nov 2020	1141	9	<2	<2	<2	1.00	13.5	85.31	6.3	33.52	8.0
I26	17 Nov 2020	1222	2	<2	<2	<2	1.00	15.2	80.94	7.6	33.56	8.0
I26	17 Nov 2020	1222	6	<2	<2	<2	1.00	14.0	85.81	6.6	33.54	7.9
I26	17 Nov 2020	1222	9	<2	<2	<2	1.00	13.8	80.41	6.3	33.53	7.9
I26	23 Nov 2020	1107	2	<2	<2	<2	1.00	14.8	79.42	7.9	33.54	8.0
I26	23 Nov 2020	1107	6	<2	<2	<2	1.00	14.5	82.45	7.4	33.53	8.0
I26	23 Nov 2020	1107	9	<2	<2	<2	1.00	13.5	82.18	6.3	33.53	7.9
I32	02 Nov 2020	1208	2	<2	<2	<2	1.00	18.2	78.74	8.3	33.52	8.2
I32	02 Nov 2020	1208	6	<2	<2	<2	1.00	17.9	76.18	8.2	33.52	8.2
I32	02 Nov 2020	1208	9	40e	2e	2e	0.05	17.6	76.59	7.7	33.51	8.2
I32	11 Nov 2020	1154	2	<2	<2	<2	1.00	14.9	66.80	6.8	33.52	8.0
I32	11 Nov 2020	1154	6	<20	<2	<2	0.10	14.1	47.85	5.9	33.51	8.0
I32	11 Nov 2020	1154	9	<20	<2	<2	0.10	13.6	39.23	5.6	33.51	7.9
I32	17 Nov 2020	1235	2	<2	<2	<2	1.00	15.0	73.28	7.8	33.55	8.0
I32	17 Nov 2020	1235	6	40e	<2	2e	0.05	14.6	68.74	7.6	33.55	8.0
I32	17 Nov 2020	1235	9	<20	<2	<2	0.10	13.9	72.29	6.5	33.54	7.9
I32	23 Nov 2020	1122	2	<2	<2	2e	1.00	14.7	71.69	7.5	33.54	8.0
I32	23 Nov 2020	1122	6	<2	<2	<2	1.00	13.7	69.64	6.2	33.52	7.9
I32	23 Nov 2020	1122	9	<20	2e	<2	0.10	13.5	66.80	5.6	33.52	7.9
I39	02 Nov 2020	1047	2	<2	<2	<2	1.00	18.2	85.99	8.3	33.53	8.2
I39	02 Nov 2020	1047	12	<2	<2	<2	1.00	15.7	81.90	6.2	33.46	8.1
I39	02 Nov 2020	1047	18	2e	<2	<2	1.00	15.3	84.20	5.8	33.47	8.0
I39	11 Nov 2020	1037	2	<2	<2	<2	1.00	14.8	78.06	7.0	33.53	8.0
I39	11 Nov 2020	1037	12	<2	<2	<2	1.00	14.6	78.84	6.8	33.52	8.0
I39	11 Nov 2020	1037	18	<2	<2	<2	1.00	13.4	86.58	6.2	33.52	8.0
I39	17 Nov 2020	1101	2	<2	<2	<2	1.00	15.4	86.20	7.6	33.54	8.0
I39	17 Nov 2020	1101	12	<2	<2	<2	1.00	15.0	81.84	7.4	33.55	8.0
I39	17 Nov 2020	1101	18	<2	<2	<2	1.00	13.8	83.47	6.5	33.56	7.9
I39	23 Nov 2020	1015	2	<2	<2	<2	1.00	15.1	86.09	7.6	33.54	8.0
I39	23 Nov 2020	1015	12	4e	<2	<2	0.50	13.9	85.05	6.5	33.53	7.9
I39	23 Nov 2020	1015	18	<200	2e	8e	0.01	13.1	87.11	5.9	33.52	7.9
I40	02 Nov 2020	1127	2	<2	<2	<2	1.00	18.3	83.19	8.2	33.52	8.2
I40	02 Nov 2020	1127	6	2e	<2	2e	1.00	17.8	79.56	8.1	33.51	8.2
I40	02 Nov 2020	1127	9	<20	<2	<2	0.10	17.6	78.16	7.9	33.50	8.2
I40	11 Nov 2020	1114	2	1200e	200e	2e	0.17	14.8	60.34	6.9	33.51	8.0
I40	11 Nov 2020	1114	6	1600e	180e	8e	0.11	14.2	68.62	6.6	33.49	8.0
I40	11 Nov 2020	1114	9	10000	580	4e	0.06	13.8	51.93	5.8	33.50	8.0
I40	17 Nov 2020	1137	2	<2	<2	<2	1.00	14.8	71.22	8.2	33.55	8.0
I40	17 Nov 2020	1137	6	<20	2e	<2	0.10	14.3	66.31	7.6	33.54	8.0
I40	17 Nov 2020	1137	9	40e	<2	<2	0.05	14.2	55.42	7.1	33.54	7.9
I40	23 Nov 2020	1044	2	<20	<2	<2	0.10	14.3	60.10	7.4	33.54	7.9
I40	23 Nov 2020	1044	6	<2	<2	<2	1.00	14.0	70.01	7.0	33.52	7.9
I40	23 Nov 2020	1044	9	<2	2e	<2	1.00	13.6	53.56	6.3	33.54	7.9

Table 3.9

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

Station	Date	Parameter	Value
I19	02 Nov 2020	Depth (m)	11
I19	02 Nov 2020	Arrive Time	1115
I19	02 Nov 2020	Depart Time	1118
I19	02 Nov 2020	Air Temp (C)	17
I19	02 Nov 2020	Weather	Cloudy
I19	02 Nov 2020	Visibility (mi)	7
I19	02 Nov 2020	Wind Speed (kts)	5
I19	02 Nov 2020	Wind Dir	SW
I19	02 Nov 2020	Water Color	Brownish-Green
I19	02 Nov 2020	Wave Ht Low (ft)	2
I19	02 Nov 2020	Wave Period (sec)	13
I19	02 Nov 2020	Sea State	Calm
I19	02 Nov 2020	High Tide (ft)	6.33
I19	02 Nov 2020	High Tide Time	2106
I19	02 Nov 2020	Low Tide (ft)	-0.71
I19	02 Nov 2020	Low Tide Time	405
I19	02 Nov 2020	Comments	none
I19	11 Nov 2020	Depth (m)	11
I19	11 Nov 2020	Arrive Time	1059
I19	11 Nov 2020	Depart Time	1101
I19	11 Nov 2020	Air Temp (C)	15
I19	11 Nov 2020	Weather	Haze
I19	11 Nov 2020	Visibility (mi)	15
I19	11 Nov 2020	Wind Speed (kts)	5
I19	11 Nov 2020	Wind Dir	NW
I19	11 Nov 2020	Water Color	Greenish-Brown
I19	11 Nov 2020	Wave Ht Low (ft)	1
I19	11 Nov 2020	Wave Period (sec)	13
I19	11 Nov 2020	Sea State	Calm
I19	11 Nov 2020	High Tide (ft)	6.33
I19	11 Nov 2020	High Tide Time	2106
I19	11 Nov 2020	Low Tide (ft)	-0.71
I19	11 Nov 2020	Low Tide Time	405
I19	11 Nov 2020	Comments	none
I19	17 Nov 2020	Depth (m)	11
I19	17 Nov 2020	Arrive Time	1124
I19	17 Nov 2020	Depart Time	1129
I19	17 Nov 2020	Air Temp (C)	17
I19	17 Nov 2020	Weather	Clear
I19	17 Nov 2020	Visibility (mi)	15
I19	17 Nov 2020	Wind Speed (kts)	6
I19	17 Nov 2020	Wind Dir	S
I19	17 Nov 2020	Water Color	Greenish-Blue
I19	17 Nov 2020	Wave Ht Low (ft)	3
I19	17 Nov 2020	Wave Period (sec)	13
I19	17 Nov 2020	Sea State	Calm
I19	17 Nov 2020	High Tide (ft)	6.54
I19	17 Nov 2020	High Tide Time	936
I19	17 Nov 2020	Low Tide (ft)	1.85
I19	17 Nov 2020	Low Tide Time	325
I19	17 Nov 2020	Comments	none
I19	23 Nov 2020	Depth (m)	9
I19	23 Nov 2020	Arrive Time	1033

Station	Date	Parameter	Value
I19	23 Nov 2020	Depart Time	1036
I19	23 Nov 2020	Air Temp (C)	15
I19	23 Nov 2020	Weather	Partly Cloudy
I19	23 Nov 2020	Visibility (mi)	5
I19	23 Nov 2020	Wind Speed (kts)	6
I19	23 Nov 2020	Wind Dir	SE
I19	23 Nov 2020	Water Color	Green
I19	23 Nov 2020	Wave Ht Low (ft)	3
I19	23 Nov 2020	Wave Period (sec)	9
I19	23 Nov 2020	Sea State	Calm
I19	23 Nov 2020	High Tide (ft)	4.5
I19	23 Nov 2020	High Tide Time	512
I19	23 Nov 2020	Low Tide (ft)	2.12
I19	23 Nov 2020	Low Tide Time	1116
I19	23 Nov 2020	Comments	none
I24	02 Nov 2020	Depth (m)	11
I24	02 Nov 2020	Arrive Time	1138
I24	02 Nov 2020	Depart Time	1139
I24	02 Nov 2020	Air Temp (C)	17
I24	02 Nov 2020	Weather	Haze
I24	02 Nov 2020	Visibility (mi)	6
I24	02 Nov 2020	Wind Speed (kts)	4
I24	02 Nov 2020	Wind Dir	SW
I24	02 Nov 2020	Water Color	Greenish-Brown
I24	02 Nov 2020	Wave Ht Low (ft)	2
I24	02 Nov 2020	Wave Period (sec)	13
I24	02 Nov 2020	Sea State	Calm
I24	02 Nov 2020	High Tide (ft)	6.33
I24	02 Nov 2020	High Tide Time	2106
I24	02 Nov 2020	Low Tide (ft)	-0.71
I24	02 Nov 2020	Low Tide Time	405
I24	02 Nov 2020	Comments	none
I24	11 Nov 2020	Depth (m)	11
I24	11 Nov 2020	Arrive Time	1122
I24	11 Nov 2020	Depart Time	1124
I24	11 Nov 2020	Air Temp (C)	15
I24	11 Nov 2020	Weather	Haze
I24	11 Nov 2020	Visibility (mi)	15
I24	11 Nov 2020	Wind Speed (kts)	7
I24	11 Nov 2020	Wind Dir	NW
I24	11 Nov 2020	Water Color	Brownish-Green
I24	11 Nov 2020	Wave Ht Low (ft)	1
I24	11 Nov 2020	Wave Period (sec)	13
I24	11 Nov 2020	Sea State	Calm
I24	11 Nov 2020	High Tide (ft)	6.33
I24	11 Nov 2020	High Tide Time	2106
I24	11 Nov 2020	Low Tide (ft)	-0.71
I24	11 Nov 2020	Low Tide Time	405
I24	11 Nov 2020	Comments	none
I24	17 Nov 2020	Depth (m)	11
I24	17 Nov 2020	Arrive Time	1147
I24	17 Nov 2020	Depart Time	1152
I24	17 Nov 2020	Air Temp (C)	17
I24	17 Nov 2020	Weather	Clear
I24	17 Nov 2020	Visibility (mi)	15
I24	17 Nov 2020	Wind Speed (kts)	8
I24	17 Nov 2020	Wind Dir	SW
I24	17 Nov 2020	Water Color	Green

Station	Date	Parameter	Value
I24	17 Nov 2020	Wave Ht Low (ft)	3
I24	17 Nov 2020	Wave Period (sec)	13
I24	17 Nov 2020	Sea State	Calm
I24	17 Nov 2020	High Tide (ft)	6.54
I24	17 Nov 2020	High Tide Time	936
I24	17 Nov 2020	Low Tide (ft)	1.85
I24	17 Nov 2020	Low Tide Time	325
I24	17 Nov 2020	Comments	none
I24	23 Nov 2020	Depth (m)	10
I24	23 Nov 2020	Arrive Time	1051
I24	23 Nov 2020	Depart Time	1055
I24	23 Nov 2020	Air Temp (C)	15
I24	23 Nov 2020	Weather	Partly Cloudy
I24	23 Nov 2020	Visibility (mi)	5
I24	23 Nov 2020	Wind Speed (kts)	7
I24	23 Nov 2020	Wind Dir	SE
I24	23 Nov 2020	Water Color	Green
I24	23 Nov 2020	Wave Ht Low (ft)	3
I24	23 Nov 2020	Wave Period (sec)	9
I24	23 Nov 2020	Sea State	Calm
I24	23 Nov 2020	High Tide (ft)	4.5
I24	23 Nov 2020	High Tide Time	512
I24	23 Nov 2020	Low Tide (ft)	2.12
I24	23 Nov 2020	Low Tide Time	1116
I24	23 Nov 2020	Comments	none
I25	02 Nov 2020	Depth (m)	10
I25	02 Nov 2020	Arrive Time	1145
I25	02 Nov 2020	Depart Time	1147
I25	02 Nov 2020	Air Temp (C)	17
I25	02 Nov 2020	Weather	Haze
I25	02 Nov 2020	Visibility (mi)	6
I25	02 Nov 2020	Wind Speed (kts)	4
I25	02 Nov 2020	Wind Dir	W
I25	02 Nov 2020	Water Color	Greenish-Brown
I25	02 Nov 2020	Wave Ht Low (ft)	2
I25	02 Nov 2020	Wave Period (sec)	13
I25	02 Nov 2020	Sea State	Calm
I25	02 Nov 2020	High Tide (ft)	6.33
I25	02 Nov 2020	High Tide Time	2106
I25	02 Nov 2020	Low Tide (ft)	-0.71
I25	02 Nov 2020	Low Tide Time	405
I25	02 Nov 2020	Comments	none
I25	11 Nov 2020	Depth (m)	9
I25	11 Nov 2020	Arrive Time	1129
I25	11 Nov 2020	Depart Time	1130
I25	11 Nov 2020	Air Temp (C)	15
I25	11 Nov 2020	Weather	Haze
I25	11 Nov 2020	Visibility (mi)	15
I25	11 Nov 2020	Wind Speed (kts)	6
I25	11 Nov 2020	Wind Dir	NW
I25	11 Nov 2020	Water Color	Brownish-Green
I25	11 Nov 2020	Wave Ht Low (ft)	1
I25	11 Nov 2020	Wave Period (sec)	13
I25	11 Nov 2020	Sea State	Calm
I25	11 Nov 2020	High Tide (ft)	6.33
I25	11 Nov 2020	High Tide Time	2106
I25	11 Nov 2020	Low Tide (ft)	-0.71
I25	11 Nov 2020	Low Tide Time	405

Station	Date	Parameter	Value
I25	11 Nov 2020	Comments	none
I25	17 Nov 2020	Depth (m)	10
I25	17 Nov 2020	Arrive Time	1156
I25	17 Nov 2020	Depart Time	1212
I25	17 Nov 2020	Air Temp (C)	17
I25	17 Nov 2020	Weather	Clear
I25	17 Nov 2020	Visibility (mi)	15
I25	17 Nov 2020	Wind Speed (kts)	9
I25	17 Nov 2020	Wind Dir	W
I25	17 Nov 2020	Water Color	Green
I25	17 Nov 2020	Wave Ht Low (ft)	3
I25	17 Nov 2020	Wave Period (sec)	13
I25	17 Nov 2020	Sea State	Calm
I25	17 Nov 2020	High Tide (ft)	6.54
I25	17 Nov 2020	High Tide Time	936
I25	17 Nov 2020	Low Tide (ft)	1.85
I25	17 Nov 2020	Low Tide Time	325
I25	17 Nov 2020	Comments	MOB drill performed with flotsam in water
I25	23 Nov 2020	Depth (m)	10
I25	23 Nov 2020	Arrive Time	1058
I25	23 Nov 2020	Depart Time	1101
I25	23 Nov 2020	Air Temp (C)	15
I25	23 Nov 2020	Weather	Partly Cloudy
I25	23 Nov 2020	Visibility (mi)	5
I25	23 Nov 2020	Wind Speed (kts)	6
I25	23 Nov 2020	Wind Dir	SE
I25	23 Nov 2020	Water Color	Green
I25	23 Nov 2020	Wave Ht Low (ft)	3
I25	23 Nov 2020	Wave Period (sec)	9
I25	23 Nov 2020	Sea State	Calm
I25	23 Nov 2020	High Tide (ft)	4.5
I25	23 Nov 2020	High Tide Time	512
I25	23 Nov 2020	Low Tide (ft)	2.12
I25	23 Nov 2020	Low Tide Time	1116
I25	23 Nov 2020	Comments	Boats
I26	02 Nov 2020	Depth (m)	10
I26	02 Nov 2020	Arrive Time	1156
I26	02 Nov 2020	Depart Time	1159
I26	02 Nov 2020	Air Temp (C)	18
I26	02 Nov 2020	Weather	Cloudy
I26	02 Nov 2020	Visibility (mi)	9
I26	02 Nov 2020	Wind Speed (kts)	7
I26	02 Nov 2020	Wind Dir	SW
I26	02 Nov 2020	Water Color	Greenish-Brown
I26	02 Nov 2020	Wave Ht Low (ft)	2
I26	02 Nov 2020	Wave Period (sec)	13
I26	02 Nov 2020	Sea State	Light chop
I26	02 Nov 2020	High Tide (ft)	6.33
I26	02 Nov 2020	High Tide Time	2106
I26	02 Nov 2020	Low Tide (ft)	-0.71
I26	02 Nov 2020	Low Tide Time	405
I26	02 Nov 2020	Comments	none
I26	11 Nov 2020	Depth (m)	11
I26	11 Nov 2020	Arrive Time	1141
I26	11 Nov 2020	Depart Time	1143
I26	11 Nov 2020	Air Temp (C)	15
I26	11 Nov 2020	Weather	Haze

Station	Date	Parameter	Value
I26	11 Nov 2020	Visibility (mi)	15
I26	11 Nov 2020	Wind Speed (kts)	7
I26	11 Nov 2020	Wind Dir	NW
I26	11 Nov 2020	Water Color	Greenish-Brown
I26	11 Nov 2020	Wave Ht Low (ft)	1
I26	11 Nov 2020	Wave Period (sec)	13
I26	11 Nov 2020	Sea State	Calm
I26	11 Nov 2020	High Tide (ft)	6.33
I26	11 Nov 2020	High Tide Time	2106
I26	11 Nov 2020	Low Tide (ft)	-0.71
I26	11 Nov 2020	Low Tide Time	405
I26	11 Nov 2020	Comments	none
I26	17 Nov 2020	Depth (m)	11
I26	17 Nov 2020	Arrive Time	1222
I26	17 Nov 2020	Depart Time	1227
I26	17 Nov 2020	Air Temp (C)	16
I26	17 Nov 2020	Weather	Clear
I26	17 Nov 2020	Visibility (mi)	15
I26	17 Nov 2020	Wind Speed (kts)	10
I26	17 Nov 2020	Wind Dir	W
I26	17 Nov 2020	Water Color	Green
I26	17 Nov 2020	Wave Ht Low (ft)	3
I26	17 Nov 2020	Wave Period (sec)	13
I26	17 Nov 2020	Sea State	Calm
I26	17 Nov 2020	High Tide (ft)	6.54
I26	17 Nov 2020	High Tide Time	936
I26	17 Nov 2020	Low Tide (ft)	1.85
I26	17 Nov 2020	Low Tide Time	325
I26	17 Nov 2020	Comments	none
I26	23 Nov 2020	Depth (m)	9
I26	23 Nov 2020	Arrive Time	1107
I26	23 Nov 2020	Depart Time	1111
I26	23 Nov 2020	Air Temp (C)	16
I26	23 Nov 2020	Weather	Partly Cloudy
I26	23 Nov 2020	Visibility (mi)	5
I26	23 Nov 2020	Wind Speed (kts)	7
I26	23 Nov 2020	Wind Dir	SE
I26	23 Nov 2020	Water Color	Green
I26	23 Nov 2020	Wave Ht Low (ft)	3
I26	23 Nov 2020	Wave Period (sec)	9
I26	23 Nov 2020	Sea State	Calm
I26	23 Nov 2020	High Tide (ft)	4.5
I26	23 Nov 2020	High Tide Time	512
I26	23 Nov 2020	Low Tide (ft)	2.12
I26	23 Nov 2020	Low Tide Time	1116
I26	23 Nov 2020	Comments	none
I32	02 Nov 2020	Depth (m)	10
I32	02 Nov 2020	Arrive Time	1208
I32	02 Nov 2020	Depart Time	1211
I32	02 Nov 2020	Air Temp (C)	18
I32	02 Nov 2020	Weather	Cloudy
I32	02 Nov 2020	Visibility (mi)	9
I32	02 Nov 2020	Wind Speed (kts)	4
I32	02 Nov 2020	Wind Dir	SW
I32	02 Nov 2020	Water Color	Greenish-Brown
I32	02 Nov 2020	Wave Ht Low (ft)	2
I32	02 Nov 2020	Wave Period (sec)	13
I32	02 Nov 2020	Sea State	Light chop

Station	Date	Parameter	Value
I32	02 Nov 2020	High Tide (ft)	6.33
I32	02 Nov 2020	High Tide Time	2106
I32	02 Nov 2020	Low Tide (ft)	-0.71
I32	02 Nov 2020	Low Tide Time	405
I32	02 Nov 2020	Comments	none
I32	11 Nov 2020	Depth (m)	10
I32	11 Nov 2020	Arrive Time	1154
I32	11 Nov 2020	Depart Time	1156
I32	11 Nov 2020	Air Temp (C)	15
I32	11 Nov 2020	Weather	Haze
I32	11 Nov 2020	Visibility (mi)	15
I32	11 Nov 2020	Wind Speed (kts)	7
I32	11 Nov 2020	Wind Dir	NW
I32	11 Nov 2020	Water Color	Greenish-Brown
I32	11 Nov 2020	Wave Ht Low (ft)	1
I32	11 Nov 2020	Wave Period (sec)	13
I32	11 Nov 2020	Sea State	Calm
I32	11 Nov 2020	High Tide (ft)	6.33
I32	11 Nov 2020	High Tide Time	2106
I32	11 Nov 2020	Low Tide (ft)	-0.71
I32	11 Nov 2020	Low Tide Time	405
I32	11 Nov 2020	Comments	none
I32	17 Nov 2020	Depth (m)	11
I32	17 Nov 2020	Arrive Time	1235
I32	17 Nov 2020	Depart Time	1242
I32	17 Nov 2020	Air Temp (C)	16
I32	17 Nov 2020	Weather	Clear
I32	17 Nov 2020	Visibility (mi)	15
I32	17 Nov 2020	Wind Speed (kts)	9
I32	17 Nov 2020	Wind Dir	SW
I32	17 Nov 2020	Water Color	Green
I32	17 Nov 2020	Wave Ht Low (ft)	3
I32	17 Nov 2020	Wave Period (sec)	13
I32	17 Nov 2020	Sea State	Calm
I32	17 Nov 2020	High Tide (ft)	6.54
I32	17 Nov 2020	High Tide Time	936
I32	17 Nov 2020	Low Tide (ft)	1.85
I32	17 Nov 2020	Low Tide Time	325
I32	17 Nov 2020	Comments	none
I32	23 Nov 2020	Depth (m)	9
I32	23 Nov 2020	Arrive Time	1122
I32	23 Nov 2020	Depart Time	1126
I32	23 Nov 2020	Air Temp (C)	16
I32	23 Nov 2020	Weather	Partly Cloudy
I32	23 Nov 2020	Visibility (mi)	5
I32	23 Nov 2020	Wind Speed (kts)	5
I32	23 Nov 2020	Wind Dir	S
I32	23 Nov 2020	Water Color	Green
I32	23 Nov 2020	Wave Ht Low (ft)	3
I32	23 Nov 2020	Wave Period (sec)	9
I32	23 Nov 2020	Sea State	Calm
I32	23 Nov 2020	High Tide (ft)	4.5
I32	23 Nov 2020	High Tide Time	512
I32	23 Nov 2020	Low Tide (ft)	2.12
I32	23 Nov 2020	Low Tide Time	1116
I32	23 Nov 2020	Comments	none
I39	02 Nov 2020	Depth (m)	20

Station	Date	Parameter	Value
I39	02 Nov 2020	Arrive Time	1047
I39	02 Nov 2020	Depart Time	1050
I39	02 Nov 2020	Air Temp (C)	16
I39	02 Nov 2020	Weather	Fog
I39	02 Nov 2020	Visibility (mi)	1
I39	02 Nov 2020	Wind Speed (kts)	5
I39	02 Nov 2020	Wind Dir	W
I39	02 Nov 2020	Water Color	Greenish-Blue
I39	02 Nov 2020	Wave Ht Low (ft)	2
I39	02 Nov 2020	Wave Period (sec)	13
I39	02 Nov 2020	Sea State	Calm
I39	02 Nov 2020	High Tide (ft)	6.33
I39	02 Nov 2020	High Tide Time	2106
I39	02 Nov 2020	Low Tide (ft)	-0.71
I39	02 Nov 2020	Low Tide Time	405
I39	02 Nov 2020	Comments	none
I39	11 Nov 2020	Depth (m)	20
I39	11 Nov 2020	Arrive Time	1037
I39	11 Nov 2020	Depart Time	1039
I39	11 Nov 2020	Air Temp (C)	15
I39	11 Nov 2020	Weather	Haze
I39	11 Nov 2020	Visibility (mi)	13
I39	11 Nov 2020	Wind Speed (kts)	3
I39	11 Nov 2020	Wind Dir	NW
I39	11 Nov 2020	Water Color	Greenish-Blue
I39	11 Nov 2020	Wave Ht Low (ft)	2
I39	11 Nov 2020	Wave Period (sec)	13
I39	11 Nov 2020	Sea State	Calm
I39	11 Nov 2020	High Tide (ft)	6.33
I39	11 Nov 2020	High Tide Time	2106
I39	11 Nov 2020	Low Tide (ft)	-0.71
I39	11 Nov 2020	Low Tide Time	405
I39	11 Nov 2020	Comments	none
I39	17 Nov 2020	Depth (m)	20
I39	17 Nov 2020	Arrive Time	1101
I39	17 Nov 2020	Depart Time	1107
I39	17 Nov 2020	Air Temp (C)	18
I39	17 Nov 2020	Weather	Clear
I39	17 Nov 2020	Visibility (mi)	15
I39	17 Nov 2020	Wind Speed (kts)	4
I39	17 Nov 2020	Wind Dir	SW
I39	17 Nov 2020	Water Color	Greenish-Blue
I39	17 Nov 2020	Wave Ht Low (ft)	3
I39	17 Nov 2020	Wave Period (sec)	13
I39	17 Nov 2020	Sea State	Calm
I39	17 Nov 2020	High Tide (ft)	6.54
I39	17 Nov 2020	High Tide Time	936
I39	17 Nov 2020	Low Tide (ft)	1.85
I39	17 Nov 2020	Low Tide Time	325
I39	17 Nov 2020	Comments	none
I39	23 Nov 2020	Depth (m)	10
I39	23 Nov 2020	Arrive Time	1015
I39	23 Nov 2020	Depart Time	1023
I39	23 Nov 2020	Air Temp (C)	15
I39	23 Nov 2020	Weather	Partly Cloudy
I39	23 Nov 2020	Visibility (mi)	5
I39	23 Nov 2020	Wind Speed (kts)	5
I39	23 Nov 2020	Wind Dir	SE

Station	Date	Parameter	Value
I39	23 Nov 2020	Water Color	Green
I39	23 Nov 2020	Wave Ht Low (ft)	3
I39	23 Nov 2020	Wave Period (sec)	9
I39	23 Nov 2020	Sea State	Calm
I39	23 Nov 2020	High Tide (ft)	4.5
I39	23 Nov 2020	High Tide Time	512
I39	23 Nov 2020	Low Tide (ft)	2.12
I39	23 Nov 2020	Low Tide Time	1116
I39	23 Nov 2020	Comments	Boats
I40	02 Nov 2020	Depth (m)	11
I40	02 Nov 2020	Arrive Time	1127
I40	02 Nov 2020	Depart Time	1129
I40	02 Nov 2020	Air Temp (C)	17
I40	02 Nov 2020	Weather	Cloudy
I40	02 Nov 2020	Visibility (mi)	7
I40	02 Nov 2020	Wind Speed (kts)	6
I40	02 Nov 2020	Wind Dir	SW
I40	02 Nov 2020	Water Color	Greenish-Brown
I40	02 Nov 2020	Wave Ht Low (ft)	2
I40	02 Nov 2020	Wave Period (sec)	13
I40	02 Nov 2020	Sea State	Calm
I40	02 Nov 2020	High Tide (ft)	6.33
I40	02 Nov 2020	High Tide Time	2106
I40	02 Nov 2020	Low Tide (ft)	-0.71
I40	02 Nov 2020	Low Tide Time	405
I40	02 Nov 2020	Comments	none
I40	11 Nov 2020	Depth (m)	10
I40	11 Nov 2020	Arrive Time	1114
I40	11 Nov 2020	Depart Time	1115
I40	11 Nov 2020	Air Temp (C)	15
I40	11 Nov 2020	Weather	Haze
I40	11 Nov 2020	Visibility (mi)	15
I40	11 Nov 2020	Wind Speed (kts)	7
I40	11 Nov 2020	Wind Dir	NW
I40	11 Nov 2020	Water Color	Brown
I40	11 Nov 2020	Wave Ht Low (ft)	1
I40	11 Nov 2020	Wave Period (sec)	13
I40	11 Nov 2020	Sea State	Calm
I40	11 Nov 2020	High Tide (ft)	6.33
I40	11 Nov 2020	High Tide Time	2106
I40	11 Nov 2020	Low Tide (ft)	-0.71
I40	11 Nov 2020	Low Tide Time	405
I40	11 Nov 2020	Comments	none
I40	17 Nov 2020	Depth (m)	11
I40	17 Nov 2020	Arrive Time	1137
I40	17 Nov 2020	Depart Time	1143
I40	17 Nov 2020	Air Temp (C)	17
I40	17 Nov 2020	Weather	Clear
I40	17 Nov 2020	Visibility (mi)	15
I40	17 Nov 2020	Wind Speed (kts)	8
I40	17 Nov 2020	Wind Dir	SW
I40	17 Nov 2020	Water Color	Green
I40	17 Nov 2020	Wave Ht Low (ft)	3
I40	17 Nov 2020	Wave Period (sec)	13
I40	17 Nov 2020	Sea State	Calm
I40	17 Nov 2020	High Tide (ft)	6.54
I40	17 Nov 2020	High Tide Time	936
I40	17 Nov 2020	Low Tide (ft)	1.85

Station	Date	Parameter	Value
I40	17 Nov 2020	Low Tide Time	325
I40	17 Nov 2020	Comments	none
I40	23 Nov 2020	Depth (m)	9
I40	23 Nov 2020	Arrive Time	1044
I40	23 Nov 2020	Depart Time	1048
I40	23 Nov 2020	Air Temp (C)	15
I40	23 Nov 2020	Weather	Partly Cloudy
I40	23 Nov 2020	Visibility (mi)	5
I40	23 Nov 2020	Wind Speed (kts)	7
I40	23 Nov 2020	Wind Dir	SE
I40	23 Nov 2020	Water Color	Green
I40	23 Nov 2020	Wave Ht Low (ft)	3
I40	23 Nov 2020	Wave Period (sec)	9
I40	23 Nov 2020	Sea State	Calm
I40	23 Nov 2020	High Tide (ft)	4.5
I40	23 Nov 2020	High Tide Time	512
I40	23 Nov 2020	Low Tide (ft)	2.12
I40	23 Nov 2020	Low Tide Time	1116
I40	23 Nov 2020	Comments	none

Table 3.10

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

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I19	02 Nov 2020	1	18.26	76.64	8.2	33.49	8.2	24.1	3.18
I19	02 Nov 2020	2	18.23	76.13	8.2	33.49	8.2	24.1	3.84
I19	02 Nov 2020	3	18.12	76.83	8.2	33.49	8.2	24.1	4.63
I19	02 Nov 2020	4	17.99	77.29	8.1	33.49	8.2	24.1	4.83
I19	02 Nov 2020	5	17.93	77.64	8.0	33.50	8.2	24.1	4.64
I19	02 Nov 2020	6	17.87	78.59	8.0	33.50	8.2	24.2	4.00
I19	02 Nov 2020	7	17.86	79.62	8.0	33.50	8.2	24.2	3.64
I19	02 Nov 2020	8	17.85	80.00	8.0	33.50	8.2	24.2	3.45
I19	02 Nov 2020	9	17.84	80.05	7.9	33.50	8.2	24.2	3.39
I19	02 Nov 2020	10	17.77	79.96	7.8	33.50	8.2	24.2	3.05
I19	11 Nov 2020	1	14.97	64.63	7.2	33.52	8.0	24.8	0.98
I19	11 Nov 2020	2	14.97	64.04	7.2	33.52	8.0	24.8	1.04
I19	11 Nov 2020	3	14.66	62.46	6.9	33.52	8.0	24.9	1.45
I19	11 Nov 2020	4	14.40	65.49	6.4	33.51	8.0	24.9	1.67
I19	11 Nov 2020	5	14.04	68.15	6.1	33.52	8.0	25.0	1.54
I19	11 Nov 2020	6	13.78	67.42	6.0	33.50	8.0	25.1	1.41
I19	11 Nov 2020	7	13.83	68.54	6.0	33.49	8.0	25.1	1.37
I19	11 Nov 2020	8	13.58	69.13	5.9	33.50	8.0	25.1	1.43
I19	11 Nov 2020	9	13.47	57.34	5.9	33.49	8.0	25.1	1.42
I19	11 Nov 2020	10	13.45	47.73	5.9	33.49	8.0	25.1	1.44
I19	17 Nov 2020	1	14.96	79.20	7.7	33.55	8.0	24.9	2.05
I19	17 Nov 2020	2	14.88	79.30	7.7	33.55	8.0	24.9	2.26
I19	17 Nov 2020	3	14.65	78.84	7.6	33.54	8.0	24.9	2.98
I19	17 Nov 2020	4	14.58	77.87	7.6	33.54	8.0	24.9	3.85
I19	17 Nov 2020	5	14.56	77.28	7.6	33.54	8.0	24.9	4.76
I19	17 Nov 2020	6	14.55	77.07	7.6	33.54	8.0	24.9	5.09
I19	17 Nov 2020	7	14.50	76.53	7.5	33.54	8.0	25.0	5.19
I19	17 Nov 2020	8	14.39	73.46	7.3	33.54	8.0	25.0	4.72
I19	17 Nov 2020	9	14.05	64.42	6.8	33.55	8.0	25.1	3.92
I19	17 Nov 2020	10	13.69	56.00	6.2	33.54	7.9	25.1	3.02
I19	23 Nov 2020	1	14.55	71.62	7.8	33.52	8.0	24.9	2.25
I19	23 Nov 2020	2	14.49	71.92	7.7	33.53	8.0	24.9	2.61
I19	23 Nov 2020	3	14.39	71.11	7.6	33.53	8.0	25.0	3.12
I19	23 Nov 2020	4	14.33	72.24	7.4	33.52	8.0	25.0	3.91
I19	23 Nov 2020	5	14.30	74.12	7.3	33.52	8.0	25.0	3.87
I19	23 Nov 2020	6	14.25	75.49	7.2	33.52	8.0	25.0	4.12
I19	23 Nov 2020	7	14.21	75.27	7.2	33.52	7.9	25.0	4.20
I19	23 Nov 2020	8	14.08	73.18	7.2	33.52	7.9	25.0	4.08
I19	23 Nov 2020	9	13.93	72.62	7.1	33.52	7.9	25.1	3.67
I19	23 Nov 2020	10	13.89	73.36	6.8	33.52	7.9	25.1	3.74
I24	02 Nov 2020	1	18.15	83.22	8.2	33.51	8.2	24.1	1.38
I24	02 Nov 2020	2	17.78	83.12	8.0	33.51	8.2	24.2	1.73
I24	02 Nov 2020	3	17.30	82.13	7.8	33.50	8.2	24.3	2.32
I24	02 Nov 2020	4	17.06	80.01	7.6	33.48	8.2	24.3	2.76
I24	02 Nov 2020	5	17.08	78.95	7.5	33.48	8.2	24.3	3.05
I24	02 Nov 2020	6	17.03	78.75	7.5	33.48	8.2	24.3	3.39
I24	02 Nov 2020	7	16.97	78.83	7.5	33.48	8.2	24.4	3.70
I24	02 Nov 2020	8	16.87	79.17	7.4	33.48	8.2	24.4	3.99
I24	02 Nov 2020	9	16.74	79.48	7.3	33.47	8.2	24.4	3.97
I24	02 Nov 2020	10	16.53	79.56	7.0	33.47	8.2	24.4	3.74
I24	02 Nov 2020	11	16.41	78.40	6.8	33.47	8.1	24.5	3.31

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I24	11 Nov 2020	1	15.10	57.97	6.8	33.52	8.0	24.8	1.64
I24	11 Nov 2020	2	15.05	57.61	6.8	33.52	8.0	24.8	1.98
I24	11 Nov 2020	3	14.70	55.56	6.9	33.51	8.0	24.9	2.72
I24	11 Nov 2020	4	14.58	53.12	6.8	33.50	8.0	24.9	2.86
I24	11 Nov 2020	5	14.60	56.82	6.7	33.51	8.0	24.9	2.71
I24	11 Nov 2020	6	14.52	63.95	6.5	33.51	8.0	24.9	2.33
I24	11 Nov 2020	7	14.31	65.71	6.3	33.50	8.0	25.0	2.00
I24	11 Nov 2020	8	14.00	63.08	6.0	33.51	8.0	25.0	1.74
I24	11 Nov 2020	9	13.71	58.30	5.7	33.51	7.9	25.1	0.32
I24	11 Nov 2020	10	13.61	53.08	5.5	33.50	7.9	25.1	0.00
I24	17 Nov 2020	1	15.34	78.21	7.7	33.55	8.0	24.8	1.79
I24	17 Nov 2020	2	15.15	77.84	7.7	33.56	8.0	24.8	1.92
I24	17 Nov 2020	3	14.72	76.23	7.7	33.56	8.0	24.9	2.53
I24	17 Nov 2020	4	14.66	73.27	7.6	33.55	8.0	24.9	2.88
I24	17 Nov 2020	5	14.62	70.42	7.6	33.55	8.0	24.9	3.50
I24	17 Nov 2020	6	14.54	67.54	7.6	33.55	8.0	24.9	4.30
I24	17 Nov 2020	7	14.37	68.62	7.4	33.55	8.0	25.0	4.81
I24	17 Nov 2020	8	14.22	70.50	7.1	33.54	8.0	25.0	4.84
I24	17 Nov 2020	9	14.07	68.05	6.7	33.54	7.9	25.0	4.37
I24	17 Nov 2020	10	14.01	63.92	6.4	33.54	7.9	25.1	3.66
I24	17 Nov 2020	11	13.70	65.08	6.2	33.54	7.9	25.1	2.71
I24	23 Nov 2020	1	14.85	78.92	7.5	33.53	8.0	24.9	1.81
I24	23 Nov 2020	2	14.83	78.74	7.5	33.53	8.0	24.9	1.98
I24	23 Nov 2020	3	14.82	79.29	7.5	33.53	8.0	24.9	2.38
I24	23 Nov 2020	4	14.81	79.78	7.5	33.53	8.0	24.9	2.84
I24	23 Nov 2020	5	14.77	79.77	7.4	33.54	8.0	24.9	3.41
I24	23 Nov 2020	6	14.64	80.58	7.4	33.54	8.0	24.9	3.97
I24	23 Nov 2020	7	14.44	81.83	7.2	33.54	8.0	25.0	4.26
I24	23 Nov 2020	8	14.12	83.02	6.8	33.53	7.9	25.0	3.75
I24	23 Nov 2020	9	13.81	83.98	6.3	33.53	7.9	25.1	2.70
I24	23 Nov 2020	10	13.72	79.02	6.2	33.53	7.9	25.1	2.32
I25	02 Nov 2020	1	18.54	85.12	8.2	33.52	8.2	24.0	1.06
I25	02 Nov 2020	2	18.54	85.37	8.2	33.52	8.2	24.0	1.10
I25	02 Nov 2020	3	18.47	85.45	8.1	33.52	8.2	24.0	1.22
I25	02 Nov 2020	4	18.08	85.30	8.2	33.52	8.2	24.1	1.77
I25	02 Nov 2020	5	17.77	84.11	8.1	33.51	8.2	24.2	2.46
I25	02 Nov 2020	6	17.30	80.92	7.8	33.49	8.2	24.3	3.62
I25	02 Nov 2020	7	16.78	79.14	7.5	33.47	8.2	24.4	4.09
I25	02 Nov 2020	8	16.63	79.05	7.2	33.47	8.2	24.4	3.71
I25	02 Nov 2020	9	16.46	78.49	6.7	33.47	8.1	24.5	2.79
I25	11 Nov 2020	1	15.06	62.44	6.5	33.52	8.0	24.8	1.34
I25	11 Nov 2020	2	14.74	61.23	6.5	33.52	8.0	24.9	1.64
I25	11 Nov 2020	3	14.66	58.22	6.7	33.50	8.0	24.9	2.47
I25	11 Nov 2020	4	14.59	55.51	6.7	33.49	8.0	24.9	2.73
I25	11 Nov 2020	5	14.30	54.76	6.5	33.49	8.0	25.0	2.40
I25	11 Nov 2020	6	14.18	56.07	6.1	33.50	8.0	25.0	1.99
I25	11 Nov 2020	7	14.03	59.64	5.9	33.51	8.0	25.0	1.54
I25	11 Nov 2020	8	13.60	70.80	5.8	33.52	8.0	25.1	1.14
I25	11 Nov 2020	9	13.59	73.03	5.8	33.51	8.0	25.1	1.06
I25	17 Nov 2020	1	15.33	81.69	7.7	33.55	8.0	24.8	1.53
I25	17 Nov 2020	2	15.17	81.51	7.6	33.56	8.0	24.8	1.70
I25	17 Nov 2020	3	14.92	80.31	7.7	33.56	8.0	24.9	2.21
I25	17 Nov 2020	4	14.83	80.21	7.5	33.55	8.0	24.9	2.66
I25	17 Nov 2020	5	14.72	81.18	7.3	33.55	8.0	24.9	2.86
I25	17 Nov 2020	6	14.58	82.69	7.2	33.54	8.0	24.9	2.83
I25	17 Nov 2020	7	14.48	83.50	7.0	33.55	8.0	25.0	2.80

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I25	17 Nov 2020	8	14.20	82.86	6.7	33.55	8.0	25.0	2.53
I25	17 Nov 2020	9	14.10	78.92	6.6	33.54	7.9	25.0	2.12
I25	23 Nov 2020	1	14.88	79.53	7.8	33.54	8.0	24.9	2.35
I25	23 Nov 2020	2	14.86	79.99	7.8	33.54	8.0	24.9	2.65
I25	23 Nov 2020	3	14.83	79.98	7.7	33.54	8.0	24.9	3.09
I25	23 Nov 2020	4	14.78	79.80	7.7	33.54	8.0	24.9	3.45
I25	23 Nov 2020	5	14.72	79.86	7.6	33.54	8.0	24.9	3.72
I25	23 Nov 2020	6	14.67	80.55	7.5	33.53	8.0	24.9	3.97
I25	23 Nov 2020	7	14.50	82.14	7.2	33.53	8.0	24.9	3.87
I25	23 Nov 2020	8	13.95	83.14	6.8	33.55	8.0	25.1	3.19
I25	23 Nov 2020	9	13.85	82.94	6.6	33.53	7.9	25.1	2.71
I26	02 Nov 2020	1	18.53	83.97	8.2	33.52	8.2	24.0	1.16
I26	02 Nov 2020	2	18.42	83.81	8.2	33.52	8.2	24.0	1.25
I26	02 Nov 2020	3	18.20	83.84	8.3	33.52	8.2	24.1	1.47
I26	02 Nov 2020	4	18.01	83.80	8.3	33.52	8.2	24.1	1.79
I26	02 Nov 2020	5	17.87	83.64	8.3	33.51	8.2	24.2	2.50
I26	02 Nov 2020	6	17.71	82.24	8.3	33.51	8.2	24.2	3.20
I26	02 Nov 2020	7	17.50	80.40	8.1	33.50	8.2	24.2	3.64
I26	02 Nov 2020	8	17.38	79.25	7.8	33.49	8.2	24.3	3.23
I26	02 Nov 2020	9	16.89	80.06	7.0	33.48	8.2	24.4	1.95
I26	11 Nov 2020	1	14.57	79.70	6.7	33.52	8.0	24.9	0.91
I26	11 Nov 2020	2	14.52	79.31	6.7	33.52	8.0	24.9	0.98
I26	11 Nov 2020	3	14.39	79.57	6.6	33.52	8.0	25.0	1.10
I26	11 Nov 2020	4	14.37	81.17	6.6	33.52	8.0	25.0	1.27
I26	11 Nov 2020	5	14.35	81.94	6.6	33.52	8.0	25.0	1.42
I26	11 Nov 2020	6	14.33	82.09	6.5	33.52	8.0	25.0	1.61
I26	11 Nov 2020	7	14.28	81.90	6.4	33.52	8.0	25.0	1.62
I26	11 Nov 2020	8	13.71	82.23	6.3	33.54	8.0	25.1	1.28
I26	11 Nov 2020	9	13.46	85.31	6.3	33.52	8.0	25.2	1.04
I26	17 Nov 2020	1	15.21	80.99	7.7	33.55	8.0	24.8	1.72
I26	17 Nov 2020	2	15.16	80.94	7.6	33.56	8.0	24.8	1.72
I26	17 Nov 2020	3	14.83	80.83	7.4	33.56	8.0	24.9	2.08
I26	17 Nov 2020	4	14.35	82.34	7.0	33.56	8.0	25.0	1.97
I26	17 Nov 2020	5	14.13	85.11	6.7	33.54	8.0	25.0	1.86
I26	17 Nov 2020	6	13.99	85.81	6.6	33.54	7.9	25.1	1.92
I26	17 Nov 2020	7	13.87	85.14	6.4	33.54	7.9	25.1	1.82
I26	17 Nov 2020	8	13.85	82.46	6.4	33.53	7.9	25.1	1.71
I26	17 Nov 2020	9	13.85	80.41	6.3	33.53	7.9	25.1	1.69
I26	23 Nov 2020	1	14.87	79.26	7.9	33.54	8.0	24.9	1.65
I26	23 Nov 2020	2	14.84	79.42	7.9	33.54	8.0	24.9	1.84
I26	23 Nov 2020	3	14.81	79.27	7.9	33.54	8.0	24.9	2.19
I26	23 Nov 2020	4	14.76	79.35	7.8	33.54	8.0	24.9	2.47
I26	23 Nov 2020	5	14.68	80.02	7.6	33.53	8.0	24.9	2.82
I26	23 Nov 2020	6	14.53	82.45	7.4	33.53	8.0	24.9	3.34
I26	23 Nov 2020	7	14.25	83.28	7.1	33.54	8.0	25.0	4.12
I26	23 Nov 2020	8	13.61	82.05	6.6	33.55	7.9	25.1	3.31
I26	23 Nov 2020	9	13.54	82.18	6.3	33.53	7.9	25.1	2.60
I32	02 Nov 2020	1	18.35	78.79	8.3	33.51	8.2	24.0	1.95
I32	02 Nov 2020	2	18.16	78.74	8.3	33.52	8.2	24.1	2.31
I32	02 Nov 2020	3	18.00	78.60	8.3	33.52	8.2	24.1	3.21
I32	02 Nov 2020	4	17.98	77.07	8.3	33.52	8.2	24.1	3.93
I32	02 Nov 2020	5	17.93	76.27	8.3	33.52	8.2	24.2	4.39
I32	02 Nov 2020	6	17.88	76.18	8.2	33.52	8.2	24.2	4.46
I32	02 Nov 2020	7	17.87	76.38	8.2	33.51	8.2	24.2	4.42
I32	02 Nov 2020	8	17.78	76.67	8.0	33.52	8.2	24.2	4.06

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I32	02 Nov 2020	9	17.55	76.59	7.7	33.51	8.2	24.2	3.42
I32	02 Nov 2020	10	16.97	75.44	7.2	33.50	8.2	24.4	3.52
I32	11 Nov 2020	1	14.98	66.98	6.9	33.52	8.0	24.8	2.08
I32	11 Nov 2020	2	14.89	66.80	6.8	33.52	8.0	24.9	2.09
I32	11 Nov 2020	3	14.81	66.51	6.6	33.52	8.0	24.9	2.07
I32	11 Nov 2020	4	14.39	64.62	6.5	33.53	8.0	25.0	2.21
I32	11 Nov 2020	5	14.20	55.91	6.3	33.52	8.0	25.0	2.30
I32	11 Nov 2020	6	14.07	47.85	5.9	33.51	8.0	25.0	2.02
I32	11 Nov 2020	7	13.96	44.54	5.7	33.50	8.0	25.0	1.89
I32	11 Nov 2020	8	13.94	40.65	5.6	33.51	8.0	25.0	1.78
I32	11 Nov 2020	9	13.62	39.23	5.6	33.51	7.9	25.1	1.58
I32	11 Nov 2020	10	13.52	35.90	5.6	33.50	7.9	25.1	1.48
I32	17 Nov 2020	1	15.00	73.64	7.8	33.55	8.0	24.9	2.29
I32	17 Nov 2020	2	14.97	73.28	7.8	33.55	8.0	24.9	2.76
I32	17 Nov 2020	3	14.95	72.89	7.8	33.55	8.0	24.9	3.56
I32	17 Nov 2020	4	14.82	72.43	7.8	33.56	8.0	24.9	4.46
I32	17 Nov 2020	5	14.61	71.37	7.7	33.55	8.0	24.9	5.11
I32	17 Nov 2020	6	14.57	68.74	7.6	33.55	8.0	24.9	5.15
I32	17 Nov 2020	7	14.40	66.26	7.3	33.55	8.0	25.0	4.76
I32	17 Nov 2020	8	14.20	64.80	7.0	33.55	8.0	25.0	4.17
I32	17 Nov 2020	9	13.91	72.29	6.5	33.54	7.9	25.1	3.26
I32	17 Nov 2020	10	13.87	65.98	6.3	33.53	7.9	25.1	2.96
I32	23 Nov 2020	1	14.79	71.59	7.6	33.54	8.0	24.9	1.25
I32	23 Nov 2020	2	14.73	71.69	7.5	33.54	8.0	24.9	1.46
I32	23 Nov 2020	3	14.39	71.05	7.2	33.54	8.0	25.0	2.05
I32	23 Nov 2020	4	13.97	71.89	6.8	33.53	7.9	25.1	2.96
I32	23 Nov 2020	5	13.90	72.92	6.4	33.52	7.9	25.1	3.26
I32	23 Nov 2020	6	13.71	69.64	6.2	33.52	7.9	25.1	3.39
I32	23 Nov 2020	7	13.68	70.93	6.0	33.52	7.9	25.1	3.18
I32	23 Nov 2020	8	13.61	71.56	5.8	33.52	7.9	25.1	3.22
I32	23 Nov 2020	9	13.53	66.80	5.6	33.52	7.9	25.1	2.73
I32	23 Nov 2020	10	13.55	45.71	5.5	33.52	7.8	25.1	2.76
I39	02 Nov 2020	1	18.34	86.09	8.3	33.53	8.2	24.1	1.10
I39	02 Nov 2020	2	18.16	85.99	8.3	33.53	8.2	24.1	1.39
I39	02 Nov 2020	3	17.98	85.57	8.2	33.52	8.2	24.1	1.83
I39	02 Nov 2020	4	17.65	85.22	8.1	33.52	8.2	24.2	2.01
I39	02 Nov 2020	5	17.02	84.94	8.0	33.51	8.2	24.4	2.38
I39	02 Nov 2020	6	16.67	84.55	7.8	33.48	8.2	24.4	2.67
I39	02 Nov 2020	7	16.45	83.99	7.6	33.48	8.2	24.5	2.95
I39	02 Nov 2020	8	16.08	83.53	7.2	33.47	8.2	24.6	3.18
I39	02 Nov 2020	9	15.92	83.02	6.8	33.46	8.1	24.6	3.39
I39	02 Nov 2020	10	15.74	82.05	6.5	33.46	8.1	24.6	3.48
I39	02 Nov 2020	11	15.73	81.95	6.3	33.46	8.1	24.6	3.49
I39	02 Nov 2020	12	15.69	81.90	6.2	33.46	8.1	24.6	3.17
I39	02 Nov 2020	13	15.67	82.28	6.2	33.46	8.1	24.6	3.03
I39	02 Nov 2020	14	15.65	82.54	6.1	33.46	8.1	24.6	2.91
I39	02 Nov 2020	15	15.65	82.80	6.0	33.46	8.1	24.6	2.82
I39	02 Nov 2020	16	15.60	83.17	6.0	33.47	8.1	24.7	2.54
I39	02 Nov 2020	17	15.49	83.62	5.9	33.47	8.0	24.7	2.33
I39	02 Nov 2020	18	15.32	84.20	5.8	33.47	8.0	24.7	1.88
I39	11 Nov 2020	1	14.91	78.79	7.0	33.53	8.0	24.9	1.29
I39	11 Nov 2020	2	14.84	78.06	7.0	33.53	8.0	24.9	1.48
I39	11 Nov 2020	3	14.75	77.36	7.0	33.52	8.0	24.9	1.91
I39	11 Nov 2020	4	14.71	77.08	7.0	33.52	8.0	24.9	2.52
I39	11 Nov 2020	5	14.68	77.42	6.9	33.52	8.0	24.9	3.09
I39	11 Nov 2020	6	14.66	77.56	6.9	33.52	8.0	24.9	3.56

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I39	11 Nov 2020	7	14.66	77.77	6.9	33.52	8.0	24.9	3.73
I39	11 Nov 2020	8	14.65	77.91	6.9	33.52	8.0	24.9	3.81
I39	11 Nov 2020	9	14.65	78.02	6.9	33.52	8.0	24.9	3.78
I39	11 Nov 2020	10	14.64	77.92	6.9	33.52	8.0	24.9	3.71
I39	11 Nov 2020	11	14.61	78.20	6.8	33.52	8.0	24.9	3.61
I39	11 Nov 2020	12	14.57	78.84	6.8	33.52	8.0	24.9	3.44
I39	11 Nov 2020	13	14.55	79.25	6.8	33.52	8.0	24.9	3.21
I39	11 Nov 2020	14	14.51	79.44	6.7	33.52	8.0	24.9	3.02
I39	11 Nov 2020	15	14.51	80.50	6.7	33.52	8.0	24.9	2.86
I39	11 Nov 2020	16	14.33	81.41	6.5	33.53	8.0	25.0	2.35
I39	11 Nov 2020	17	13.72	82.49	6.3	33.54	8.0	25.1	1.63
I39	11 Nov 2020	18	13.45	86.58	6.2	33.52	8.0	25.2	1.20
I39	17 Nov 2020	1	15.40	86.30	7.6	33.54	8.0	24.8	1.42
I39	17 Nov 2020	2	15.45	86.20	7.6	33.54	8.0	24.7	1.39
I39	17 Nov 2020	3	15.37	85.90	7.5	33.54	8.0	24.8	1.57
I39	17 Nov 2020	4	15.28	85.76	7.6	33.54	8.0	24.8	2.23
I39	17 Nov 2020	5	15.22	85.17	7.6	33.55	8.0	24.8	2.96
I39	17 Nov 2020	6	15.17	84.12	7.6	33.55	8.0	24.8	3.47
I39	17 Nov 2020	7	15.12	83.03	7.5	33.55	8.0	24.8	4.03
I39	17 Nov 2020	8	15.09	82.28	7.5	33.55	8.0	24.8	4.60
I39	17 Nov 2020	9	15.06	81.99	7.5	33.55	8.0	24.8	4.78
I39	17 Nov 2020	10	15.04	81.81	7.5	33.55	8.0	24.8	4.78
I39	17 Nov 2020	11	15.00	81.78	7.5	33.55	8.0	24.9	4.77
I39	17 Nov 2020	12	14.98	81.84	7.4	33.55	8.0	24.9	4.68
I39	17 Nov 2020	13	14.97	82.15	7.4	33.55	8.0	24.9	4.71
I39	17 Nov 2020	14	14.91	82.39	7.3	33.55	8.0	24.9	4.31
I39	17 Nov 2020	15	14.79	82.81	7.2	33.56	8.0	24.9	4.10
I39	17 Nov 2020	16	14.63	82.89	7.1	33.56	8.0	24.9	4.04
I39	17 Nov 2020	17	14.50	82.46	6.9	33.55	8.0	25.0	3.46
I39	17 Nov 2020	18	13.79	83.47	6.5	33.56	7.9	25.1	2.66
I39	23 Nov 2020	1	15.10	84.76	7.6	33.53	8.0	24.8	1.75
I39	23 Nov 2020	2	15.12	86.09	7.6	33.54	8.0	24.8	1.68
I39	23 Nov 2020	3	14.92	86.07	7.5	33.54	8.0	24.9	2.28
I39	23 Nov 2020	4	14.88	84.96	7.5	33.53	8.0	24.9	2.77
I39	23 Nov 2020	5	14.86	84.76	7.5	33.53	8.0	24.9	3.06
I39	23 Nov 2020	6	14.66	84.83	7.3	33.54	8.0	24.9	3.26
I39	23 Nov 2020	7	14.52	84.70	7.2	33.53	8.0	24.9	3.66
I39	23 Nov 2020	8	14.40	84.04	7.1	33.54	8.0	25.0	3.70
I39	23 Nov 2020	9	14.31	84.09	7.0	33.53	8.0	25.0	3.68
I39	23 Nov 2020	10	14.29	84.69	6.9	33.53	8.0	25.0	3.87
I39	23 Nov 2020	11	14.07	84.91	6.8	33.54	8.0	25.0	3.42
I39	23 Nov 2020	12	13.87	85.05	6.5	33.53	7.9	25.1	3.21
I39	23 Nov 2020	13	13.78	85.22	6.4	33.53	7.9	25.1	3.08
I39	23 Nov 2020	14	13.42	85.92	6.2	33.52	7.9	25.2	2.39
I39	23 Nov 2020	15	13.18	87.84	6.1	33.52	7.9	25.2	1.98
I39	23 Nov 2020	16	13.28	88.43	6.0	33.51	7.9	25.2	1.81
I39	23 Nov 2020	17	13.12	87.91	6.0	33.52	7.9	25.2	1.70
I39	23 Nov 2020	18	13.13	87.11	5.9	33.52	7.9	25.2	1.63
I40	02 Nov 2020	1	18.37	83.35	8.2	33.52	8.2	24.0	1.29
I40	02 Nov 2020	2	18.29	83.19	8.2	33.52	8.2	24.1	1.48
I40	02 Nov 2020	3	18.16	81.92	8.2	33.51	8.2	24.1	2.07
I40	02 Nov 2020	4	18.07	81.12	8.2	33.51	8.2	24.1	2.57
I40	02 Nov 2020	5	18.00	81.07	8.1	33.51	8.2	24.1	3.28
I40	02 Nov 2020	6	17.75	79.56	8.1	33.51	8.2	24.2	5.04
I40	02 Nov 2020	7	17.67	78.06	8.1	33.50	8.2	24.2	5.51
I40	02 Nov 2020	8	17.65	77.54	8.1	33.50	8.2	24.2	5.48
I40	02 Nov 2020	9	17.61	78.16	7.9	33.50	8.2	24.2	4.50
I40	02 Nov 2020	10	17.35	78.91	7.7	33.50	8.2	24.3	3.50

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I40	11 Nov 2020	1	14.86	62.46	7.0	33.51	8.0	24.9	1.54
I40	11 Nov 2020	2	14.84	60.34	6.9	33.51	8.0	24.9	1.74
I40	11 Nov 2020	3	14.65	59.21	6.9	33.52	8.0	24.9	2.29
I40	11 Nov 2020	4	14.54	66.24	6.8	33.51	8.0	24.9	2.47
I40	11 Nov 2020	5	14.36	68.59	6.7	33.51	8.0	25.0	2.41
I40	11 Nov 2020	6	14.22	68.62	6.6	33.49	8.0	25.0	2.26
I40	11 Nov 2020	7	14.16	66.38	6.4	33.49	8.0	25.0	2.21
I40	11 Nov 2020	8	13.98	64.19	6.2	33.50	8.0	25.0	1.96
I40	11 Nov 2020	9	13.78	51.93	5.8	33.50	8.0	25.1	2.03
I40	11 Nov 2020	10	13.76	25.67	5.6	33.50	7.9	25.1	2.18
I40	17 Nov 2020	1	14.90	72.43	8.3	33.55	8.0	24.9	2.37
I40	17 Nov 2020	2	14.80	71.22	8.2	33.55	8.0	24.9	3.12
I40	17 Nov 2020	3	14.67	69.97	8.1	33.55	8.0	24.9	3.92
I40	17 Nov 2020	4	14.53	70.08	7.9	33.55	8.0	25.0	4.50
I40	17 Nov 2020	5	14.41	69.68	7.8	33.54	8.0	25.0	4.57
I40	17 Nov 2020	6	14.33	66.31	7.6	33.54	8.0	25.0	4.46
I40	17 Nov 2020	7	14.27	60.24	7.4	33.54	8.0	25.0	4.25
I40	17 Nov 2020	8	14.26	56.11	7.3	33.54	8.0	25.0	4.26
I40	17 Nov 2020	9	14.23	55.42	7.1	33.54	7.9	25.0	3.93
I40	17 Nov 2020	10	14.20	52.81	6.8	33.54	7.9	25.0	3.98
I40	23 Nov 2020	1	14.61	66.72	7.4	33.53	7.9	24.9	1.62
I40	23 Nov 2020	2	14.34	60.10	7.4	33.54	7.9	25.0	1.96
I40	23 Nov 2020	3	14.23	65.56	7.4	33.53	7.9	25.0	2.71
I40	23 Nov 2020	4	14.18	69.36	7.3	33.53	7.9	25.0	3.24
I40	23 Nov 2020	5	14.10	70.10	7.1	33.53	7.9	25.0	3.38
I40	23 Nov 2020	6	14.02	70.01	7.0	33.52	7.9	25.0	3.57
I40	23 Nov 2020	7	14.00	67.49	6.9	33.52	7.9	25.0	3.71
I40	23 Nov 2020	8	13.99	58.98	6.9	33.52	7.9	25.0	3.67
I40	23 Nov 2020	9	13.55	53.56	6.3	33.54	7.9	25.2	3.17
I40	23 Nov 2020	10	13.35	49.38	5.6	33.52	7.8	25.2	2.77

NA = not available

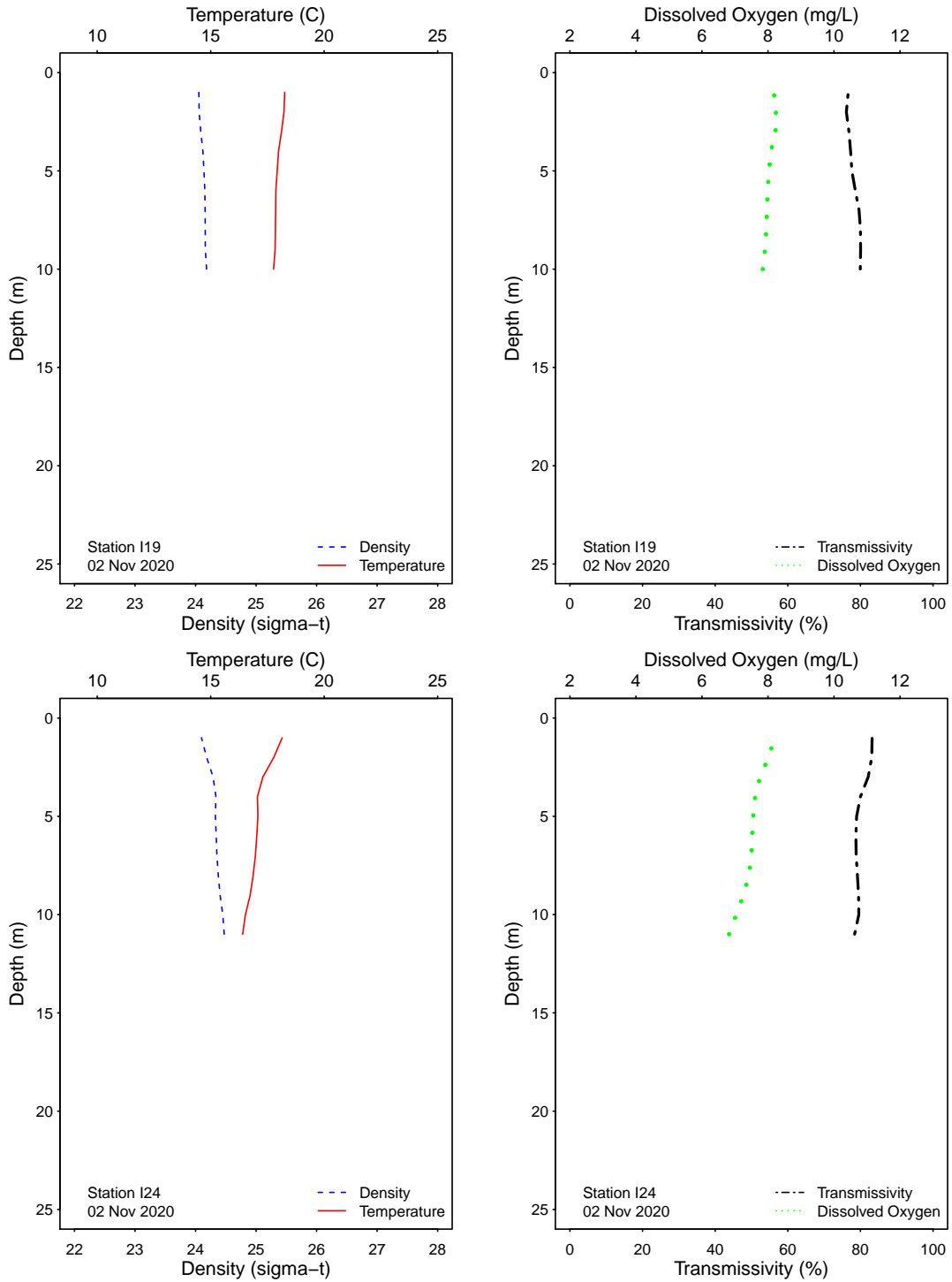


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

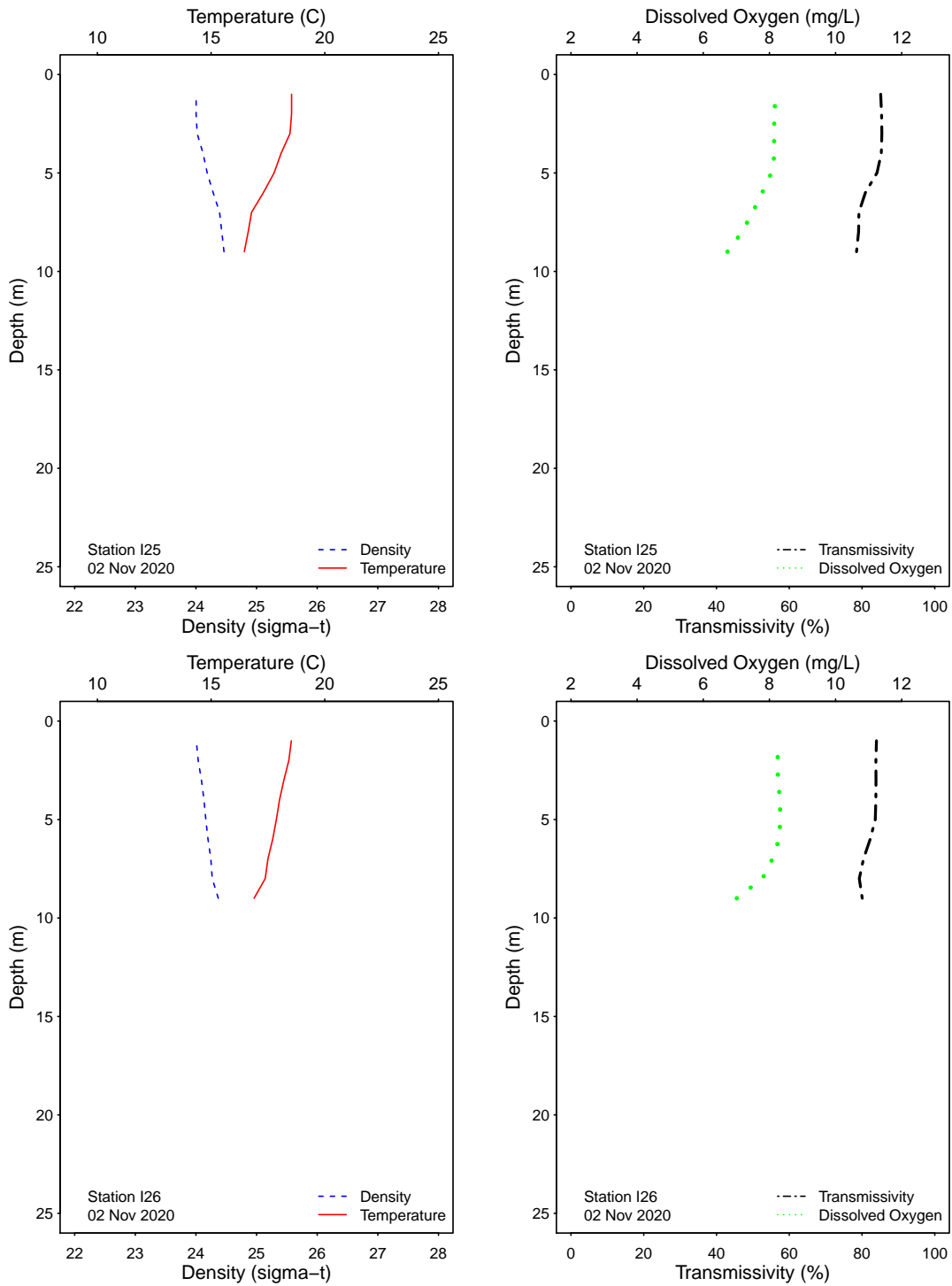


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

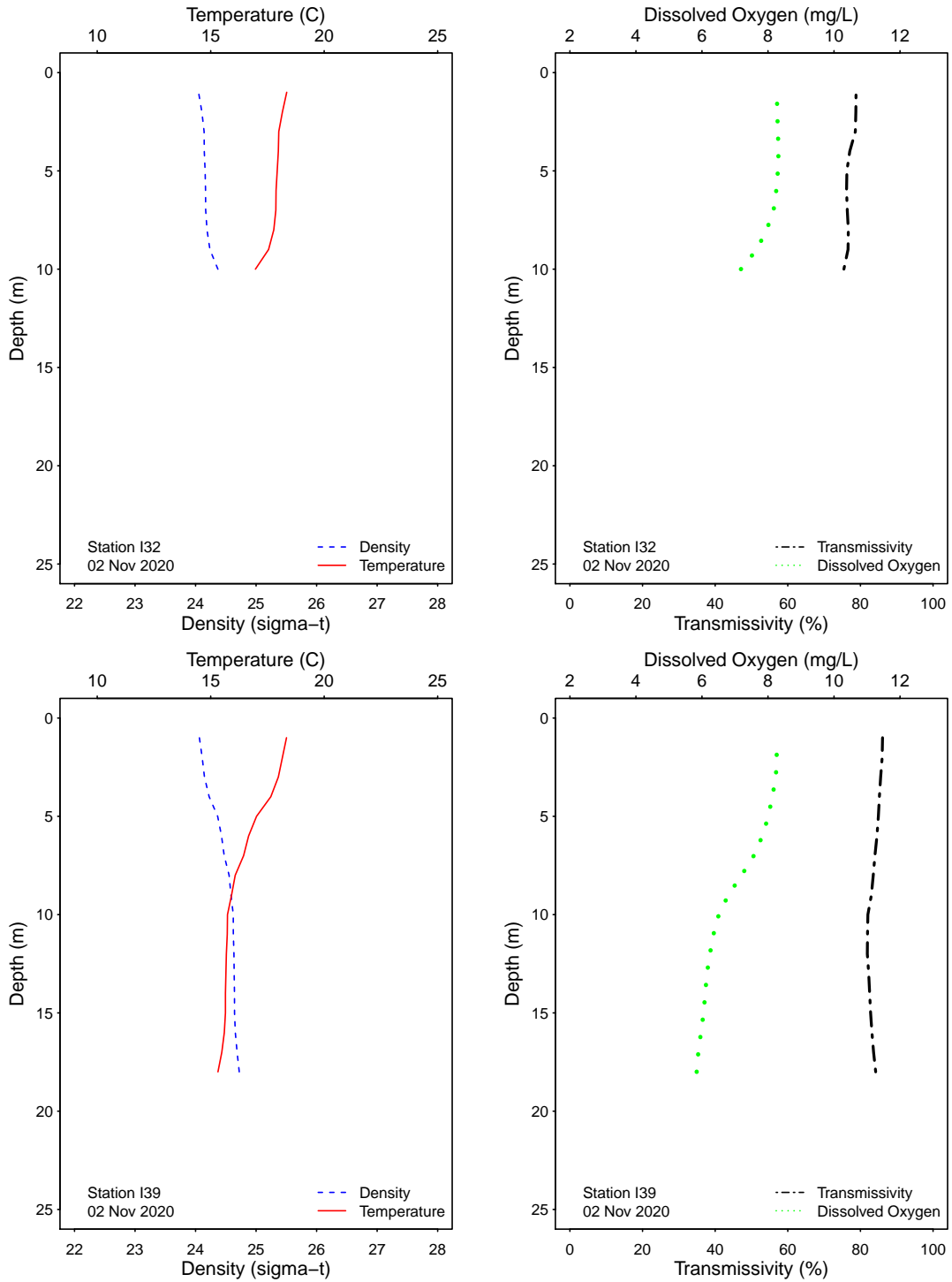


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

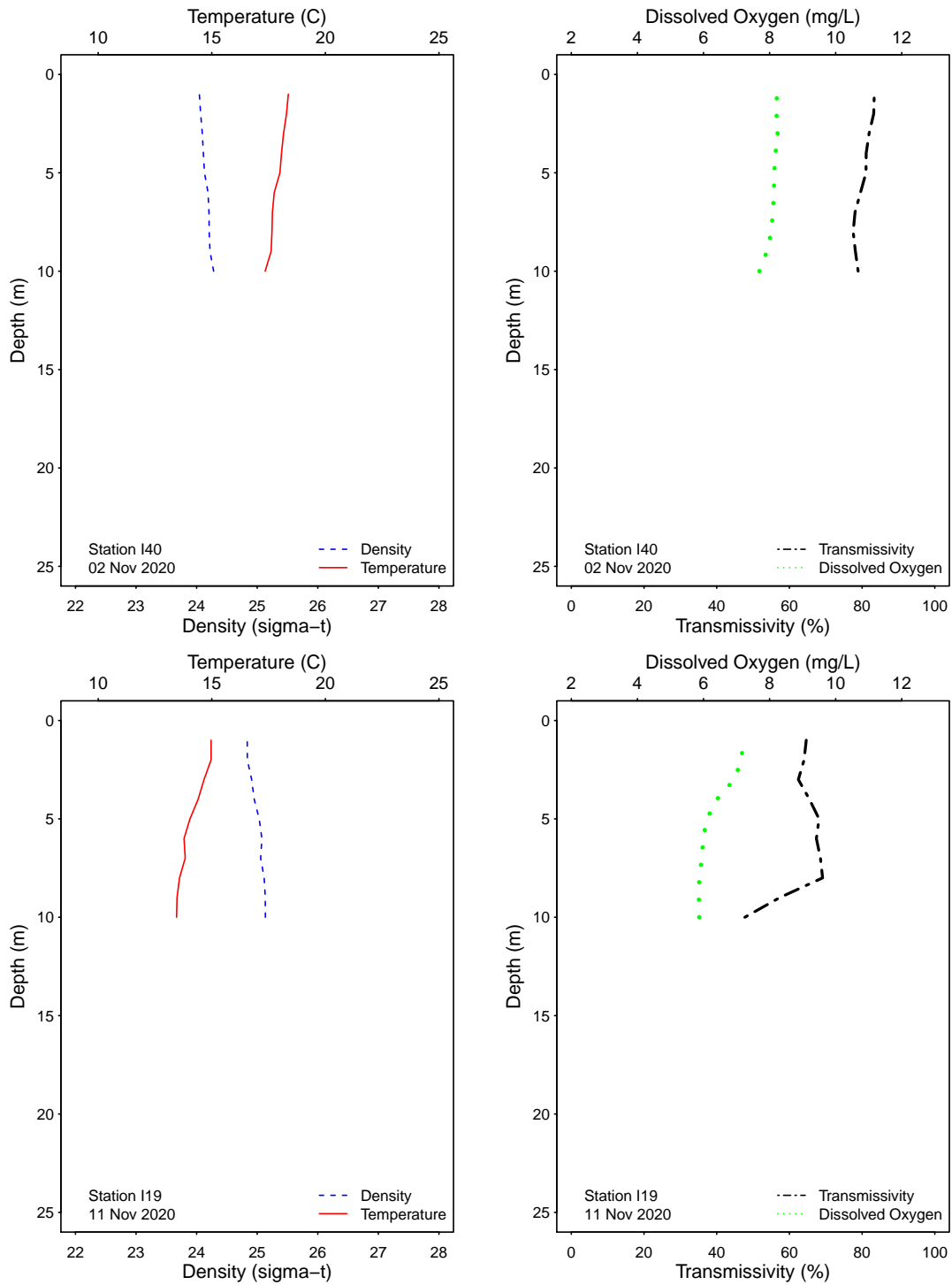


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

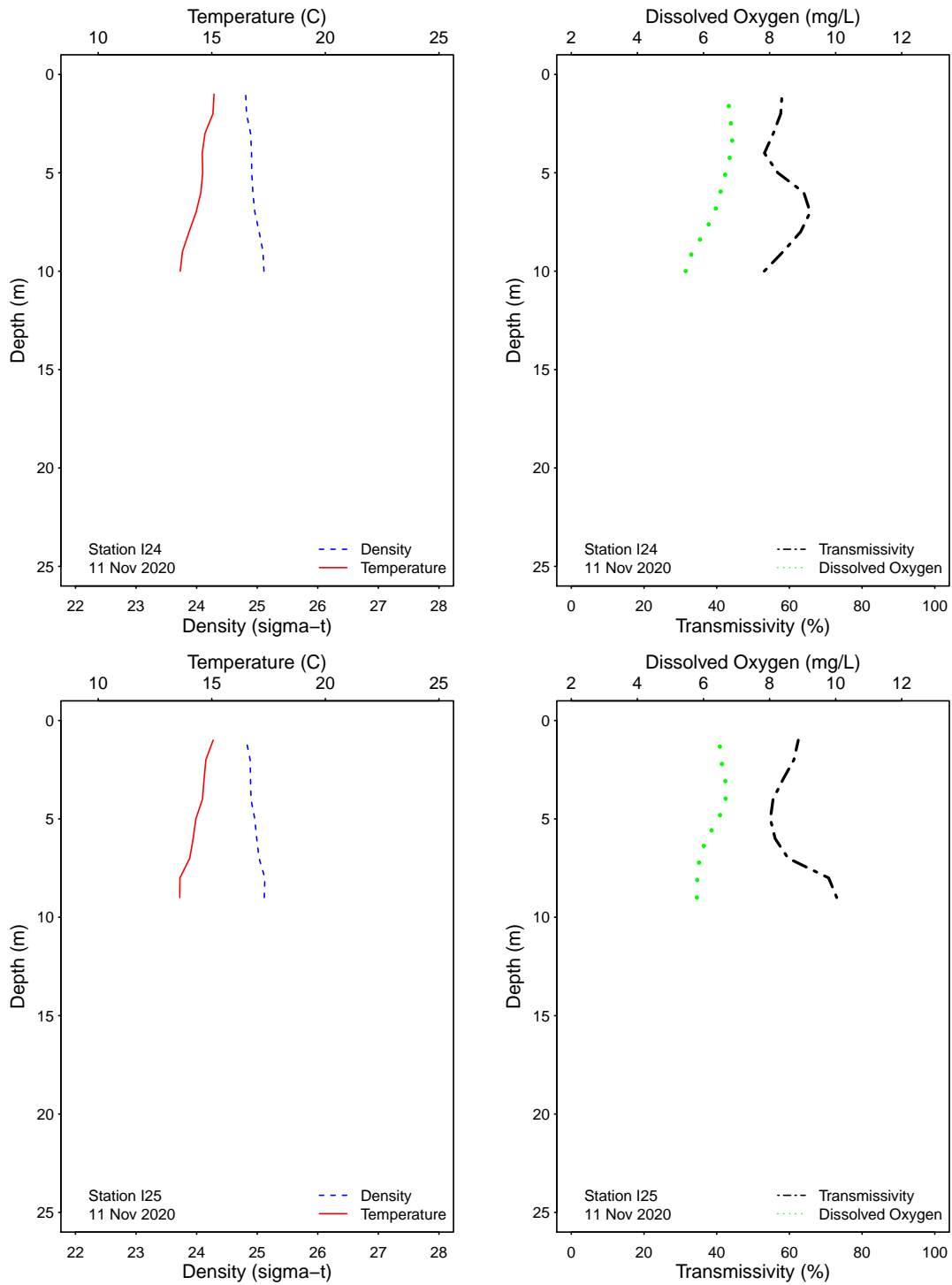


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

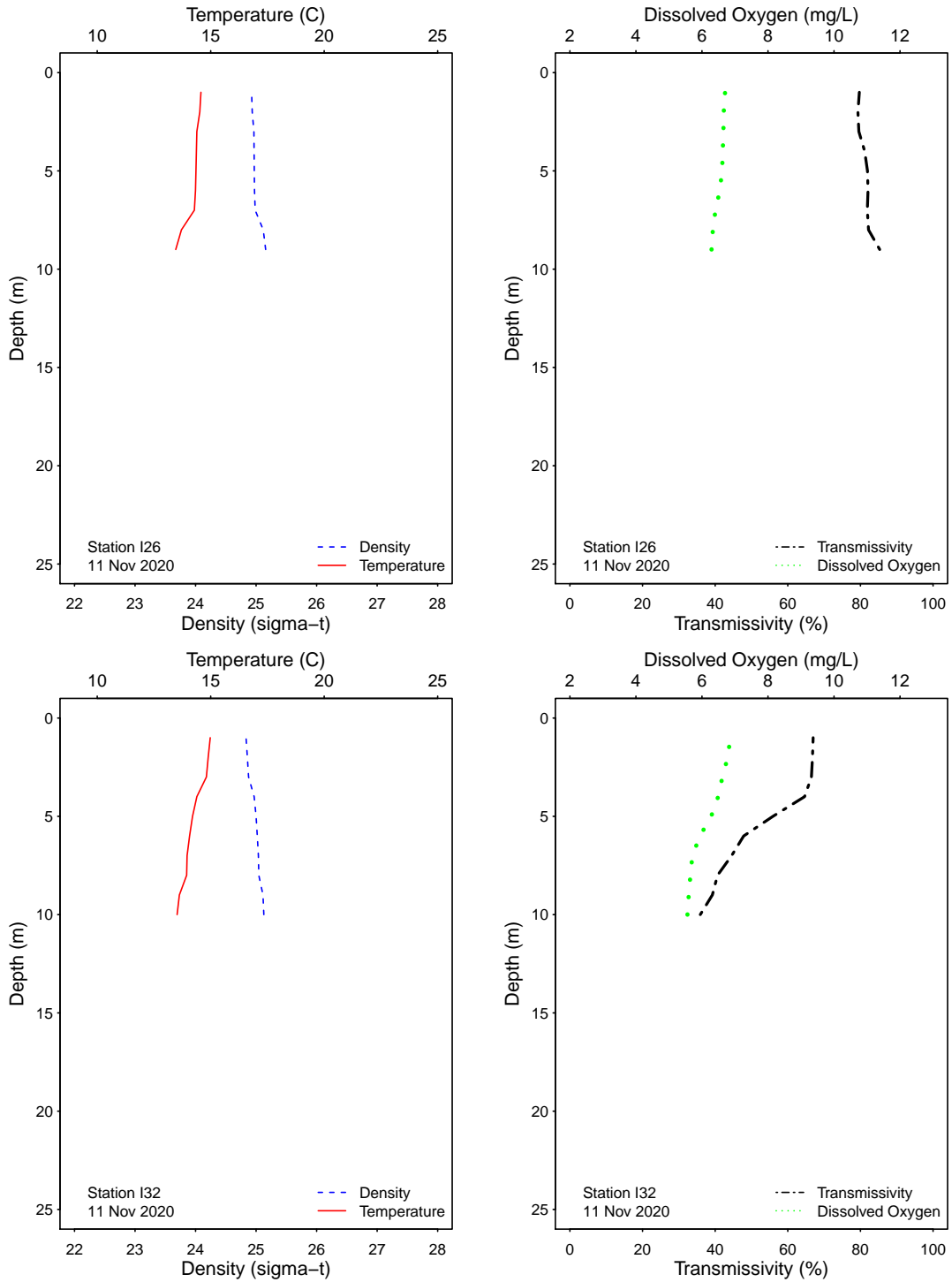


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

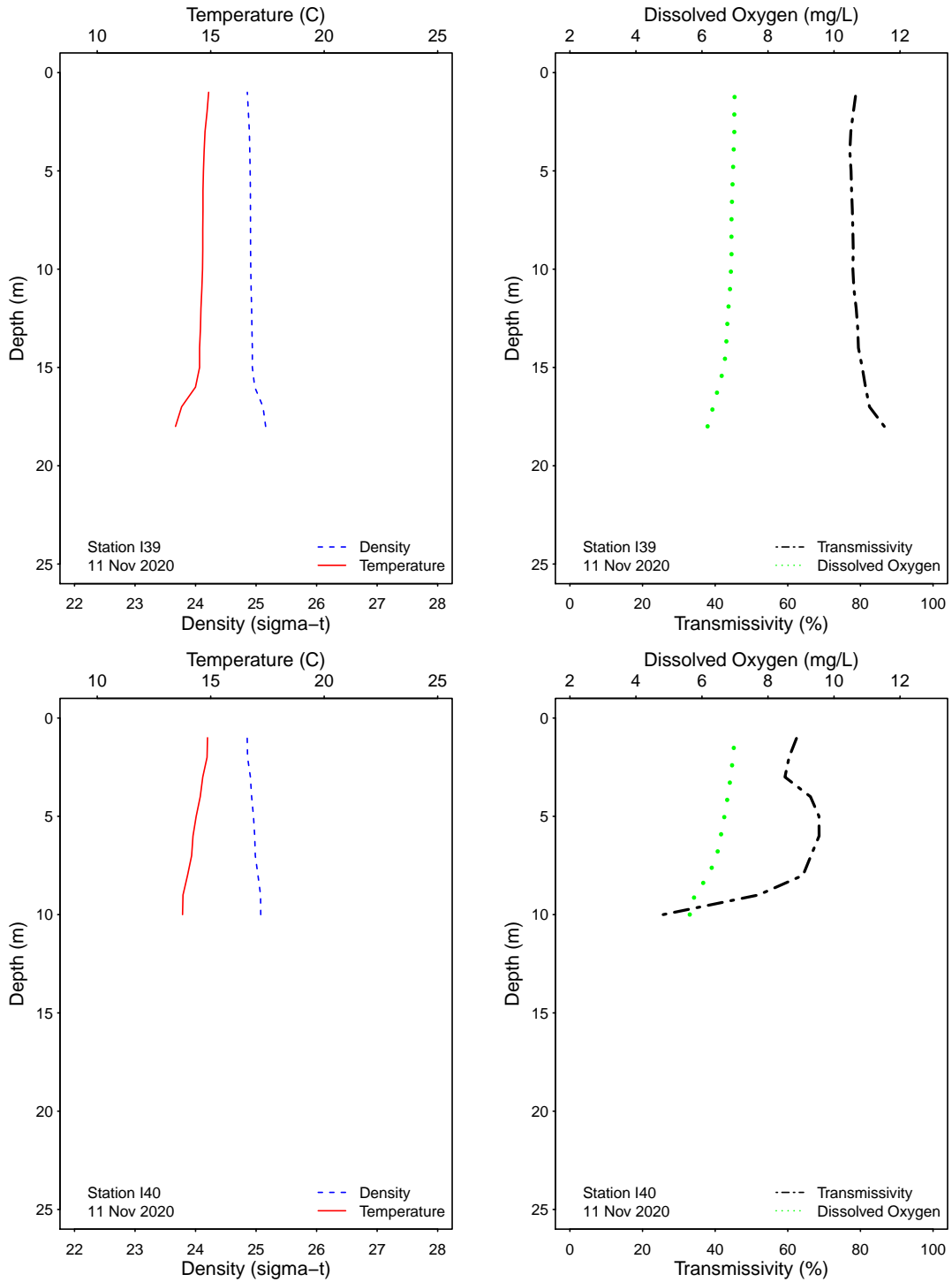


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

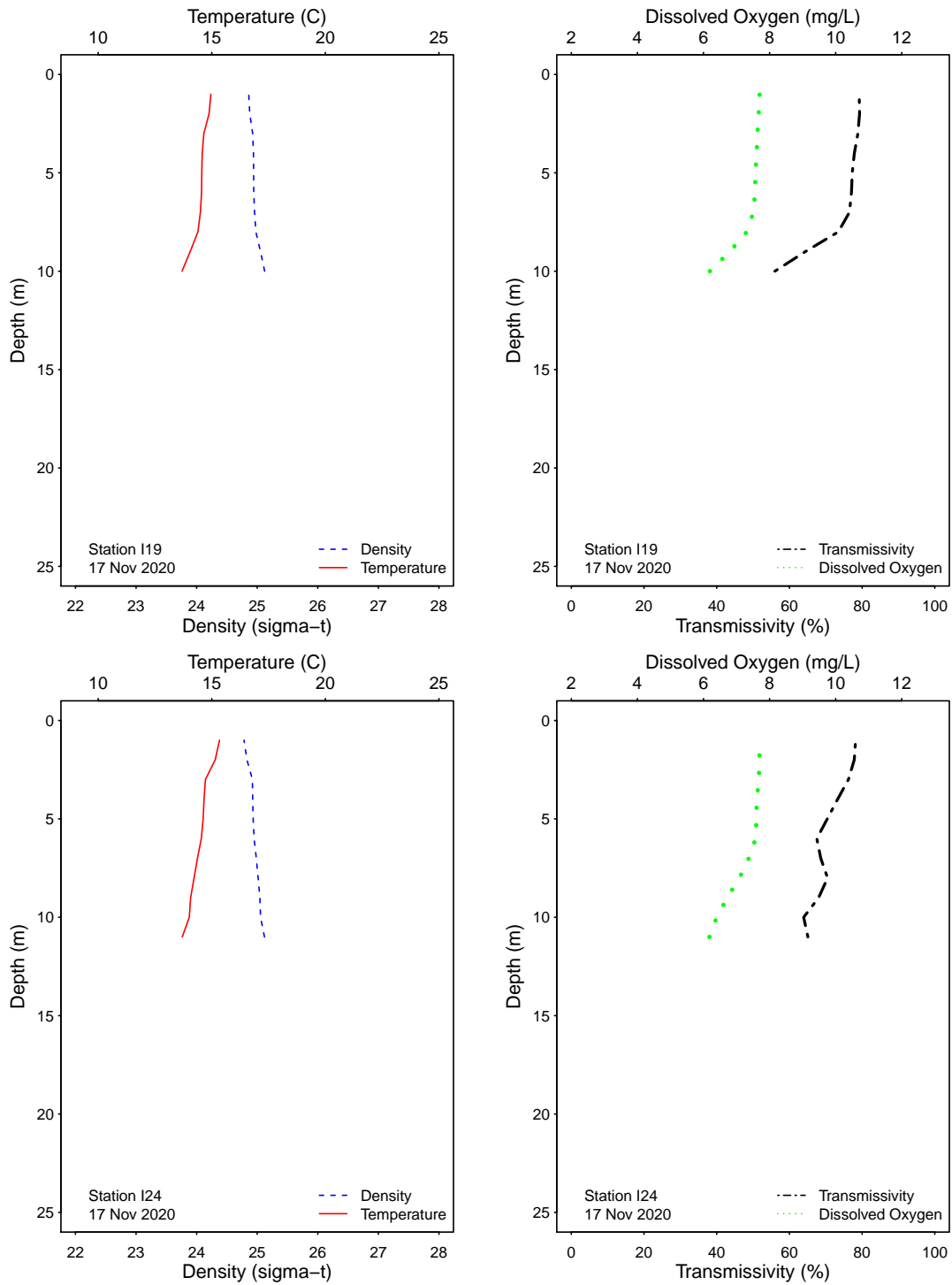


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

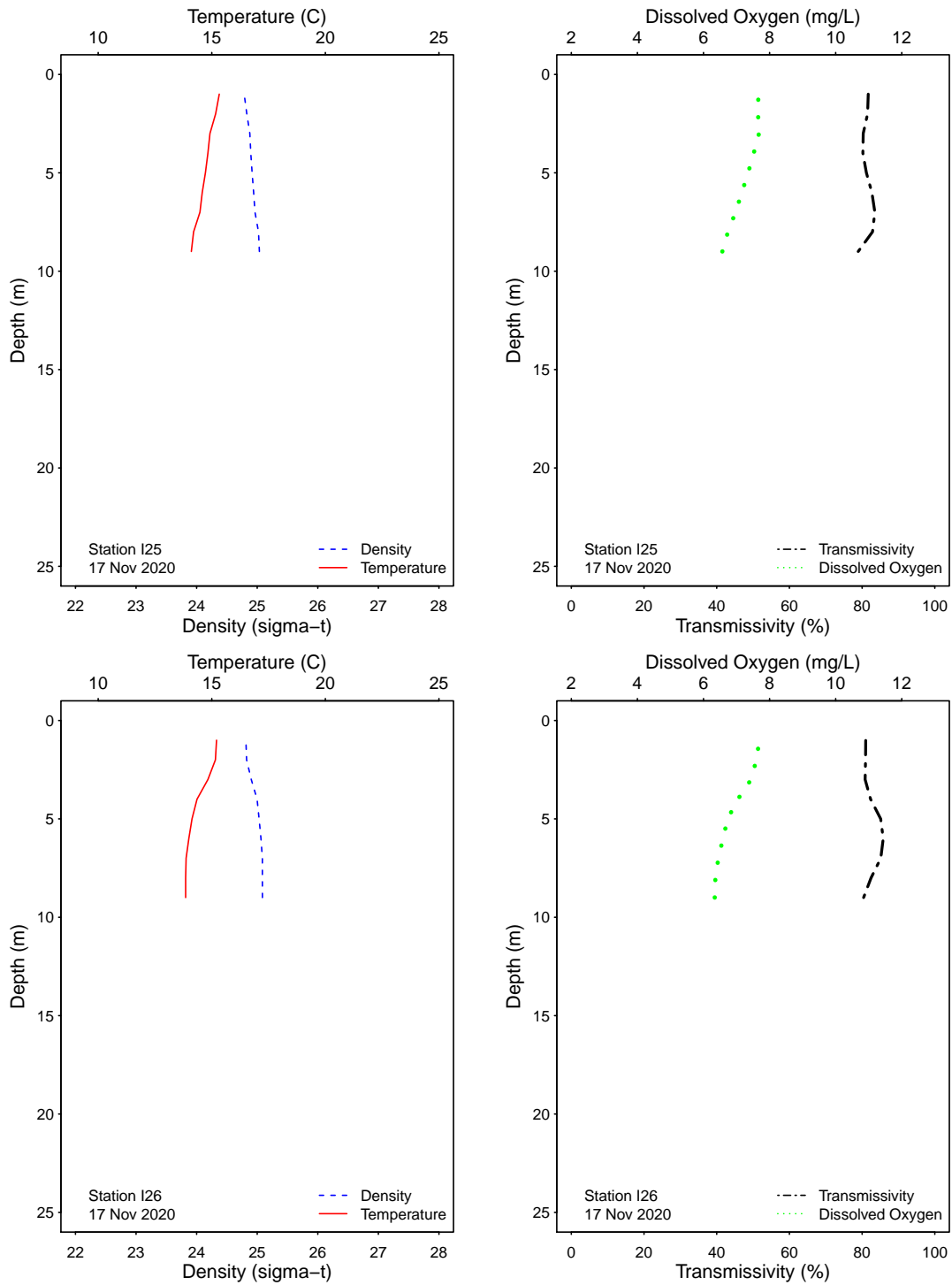


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

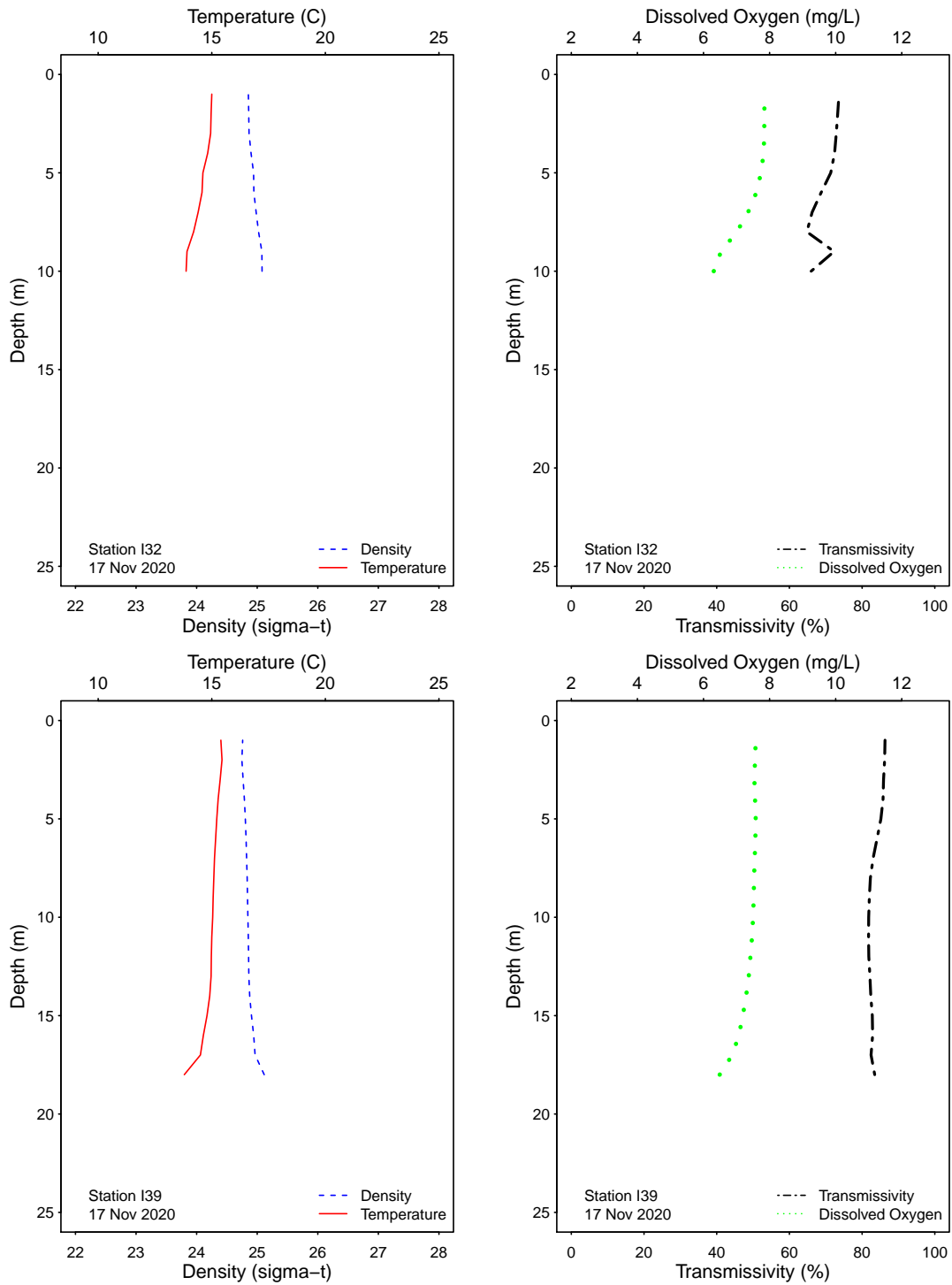


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

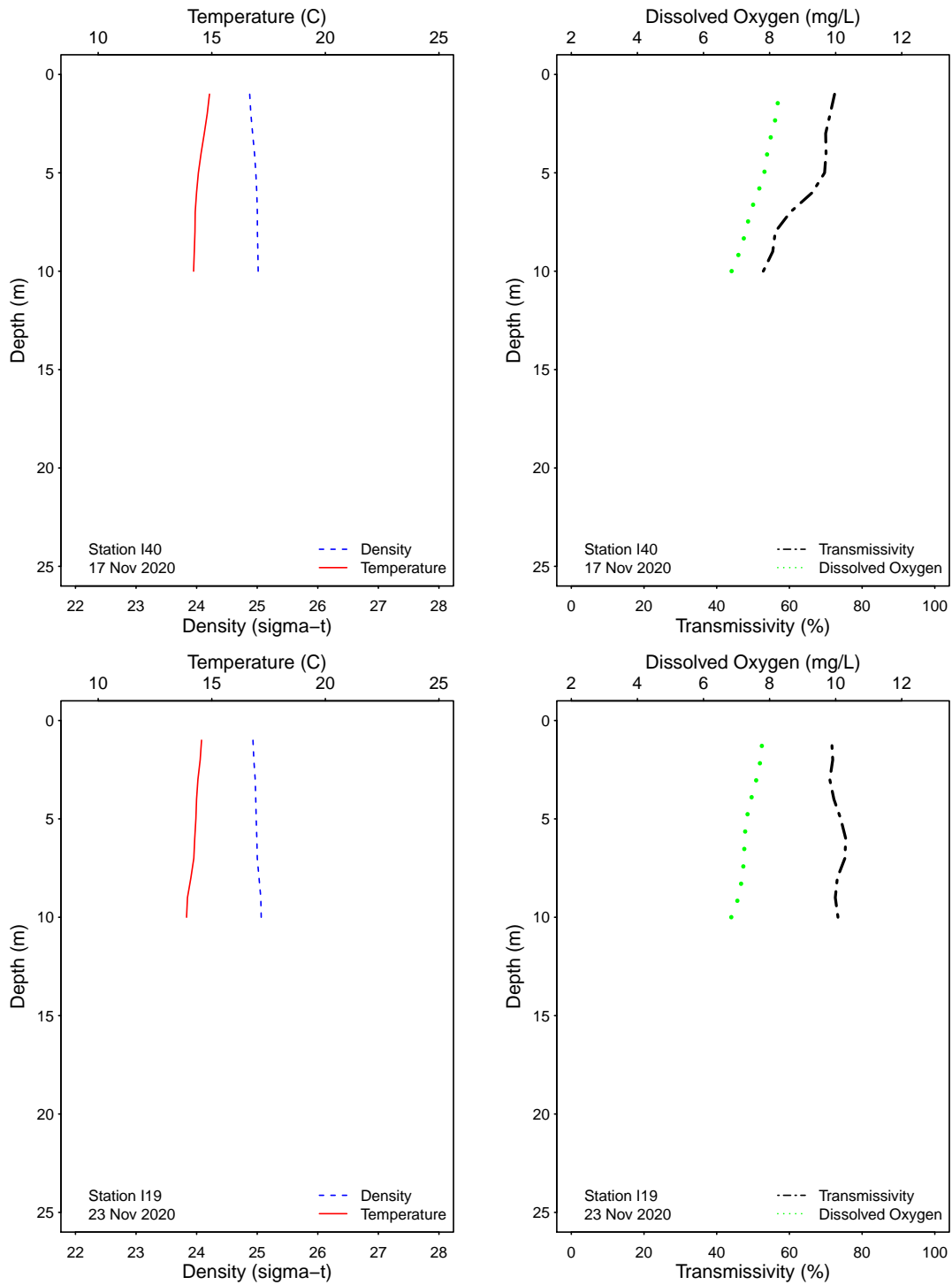


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

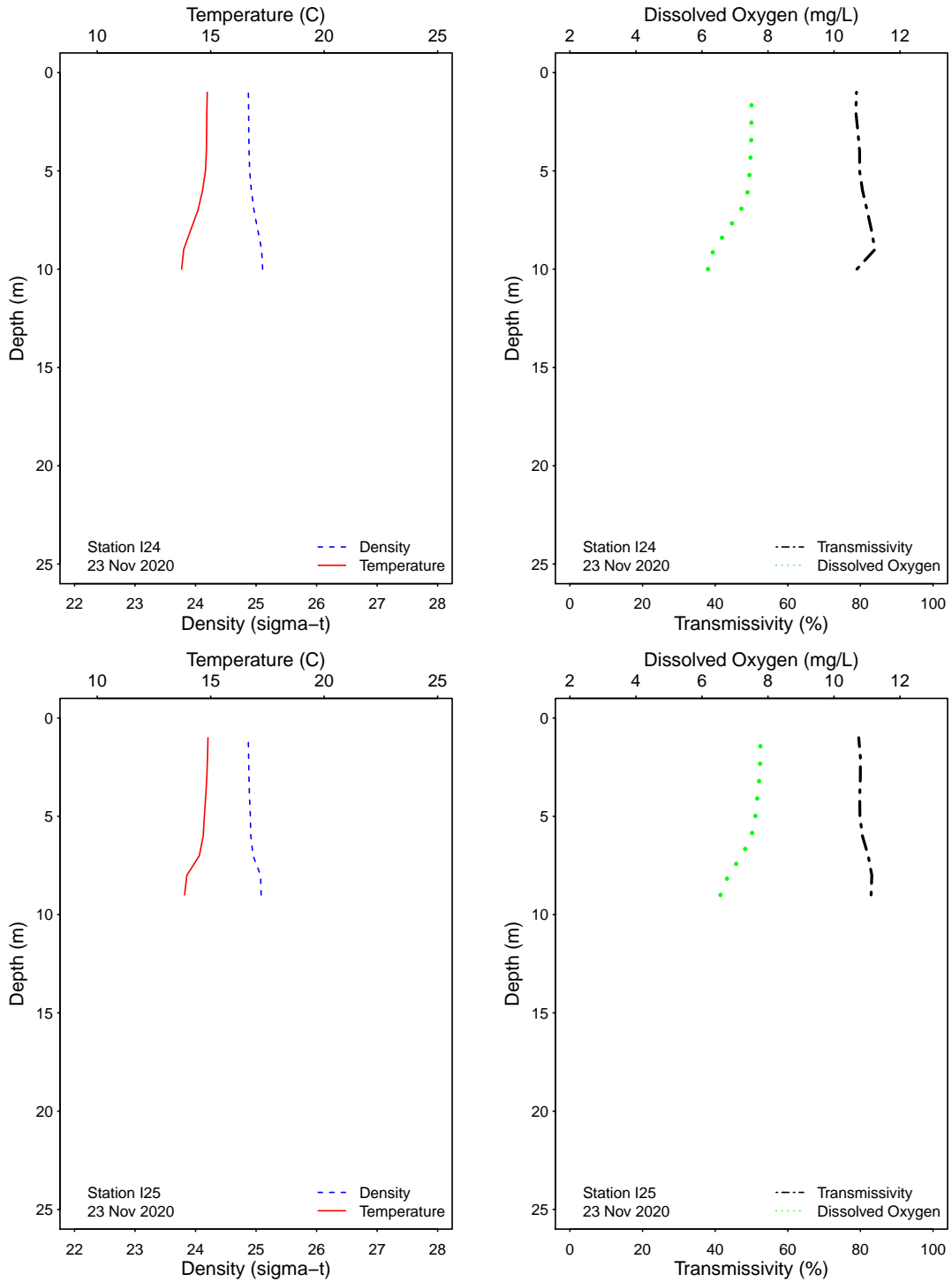


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

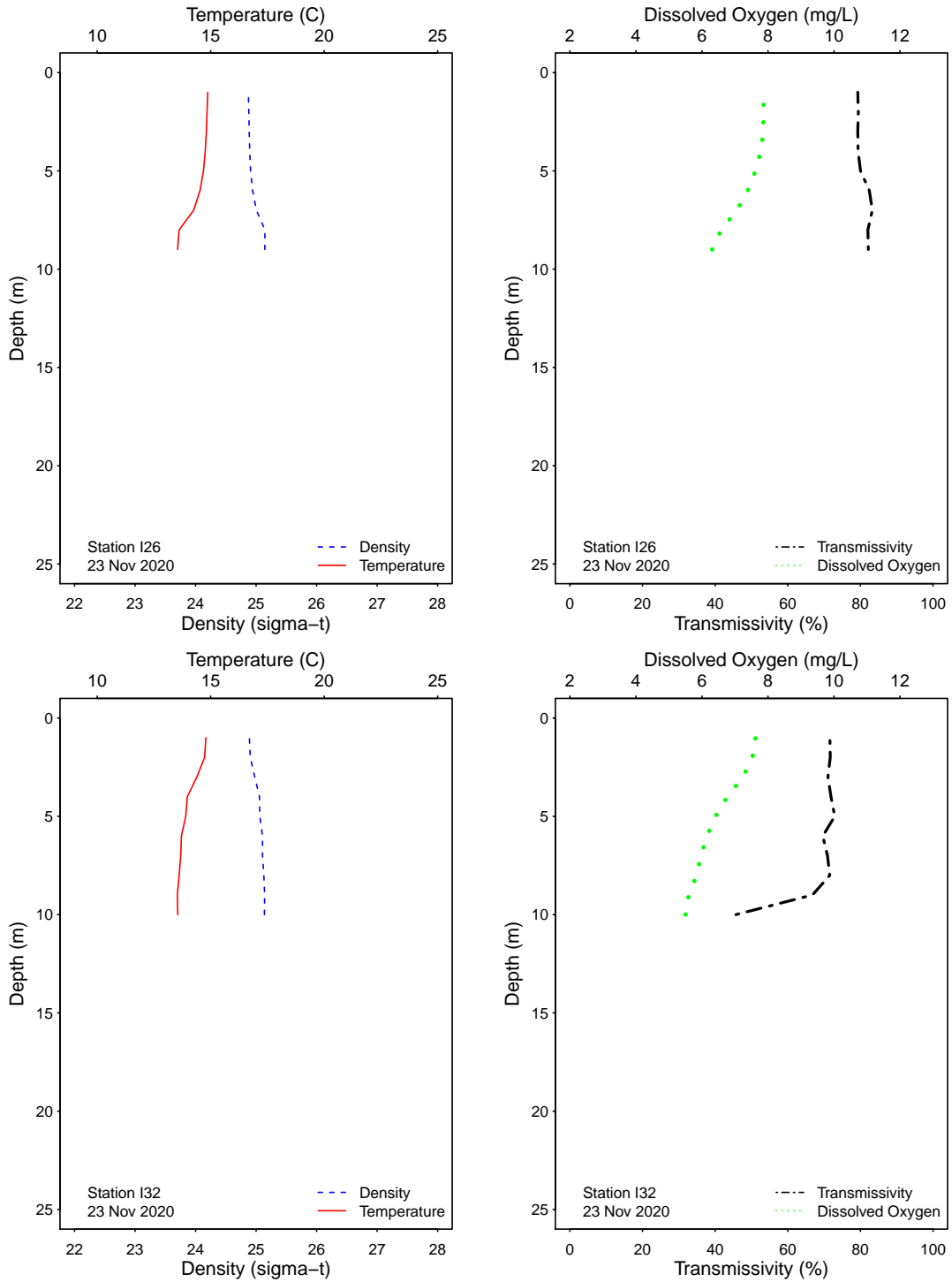


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

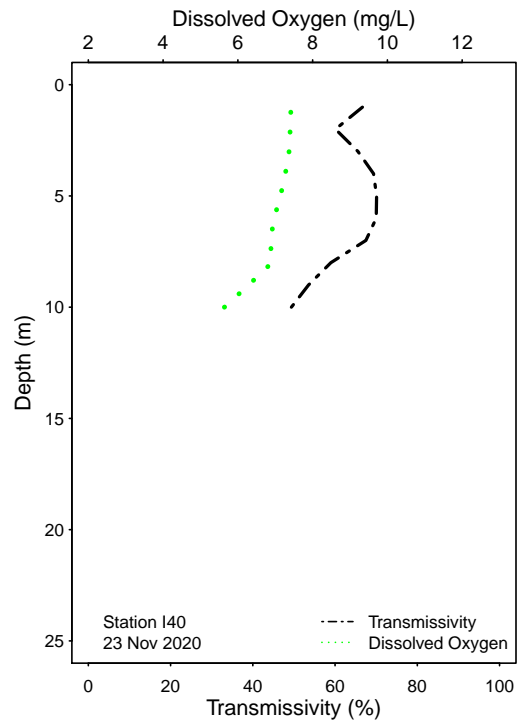
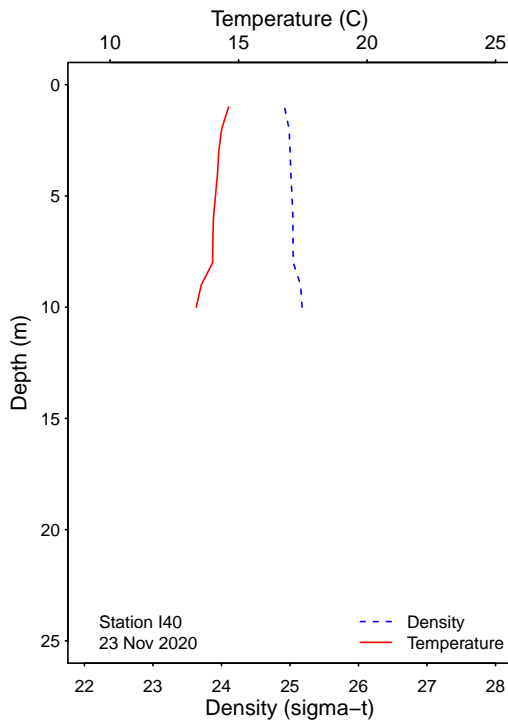
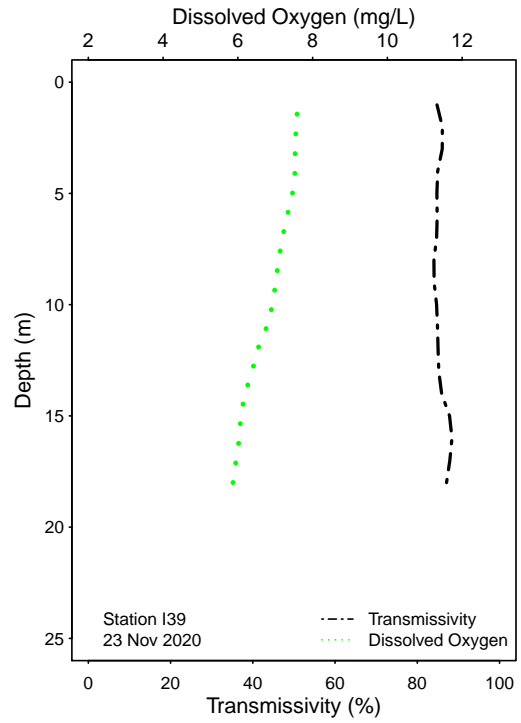
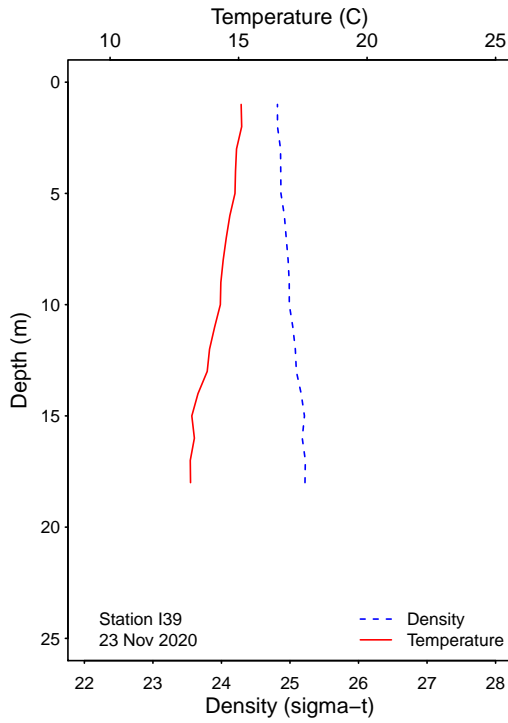


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

Offshore Stations

Table 4.1

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

Date	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
04 Nov 2020	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
05 Nov 2020	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 4.2

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

Date	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
04 Nov 2020	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
05 Nov 2020	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 4.3

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

Date	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
04 Nov 2020	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
05 Nov 2020	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 4.4

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

Date	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
04 Nov 2020	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
05 Nov 2020	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 4.5

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

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH
I10	03 Nov 2020	1143	2	2e	<2	<2	1.00	18.2	77.34	9.1	33.47	8.3
I10	03 Nov 2020	1143	12	<2	4e	2e	2.00	15.8	84.88	7.2	33.45	8.1
I10	03 Nov 2020	1143	18	42	2e	4e	0.05	15.7	85.58	7.0	33.46	8.1
I11	03 Nov 2020	1133	2	1000	140e	76	0.14	17.7	78.39	8.2	33.46	8.2
I11	03 Nov 2020	1133	6	6200	680	280e	0.11	17.4	76.28	8.3	33.46	8.2
I11	03 Nov 2020	1133	11	2400e	220e	80e	0.09	16.6	81.84	7.6	33.47	8.2
I12	04 Nov 2020	1037	2	<20	<2	<2	0.10	17.8	77.48	8.3	33.44	8.2
I12	04 Nov 2020	1037	18	2e	<2	<2	1.00	15.0	87.07	6.7	33.45	8.1
I12	04 Nov 2020	1037	27	<2	2e	<2	1.00	15.0	87.18	6.7	33.46	8.1
I13	04 Nov 2020	1128	2	<20	<2	<2	0.10	18.5	77.85	8.8	33.48	8.3
I13	04 Nov 2020	1128	18	<2	<2	<2	1.00	16.1	86.13	7.3	33.48	8.2
I13	04 Nov 2020	1128	37	4e	<2	<2	0.50	14.6	89.19	6.2	33.47	8.0
I14	04 Nov 2020	1143	2	<20	<2	<2	0.10	17.9	73.34	8.6	33.47	8.2
I14	04 Nov 2020	1143	18	2e	<2	<2	1.00	15.2	87.19	6.8	33.45	8.1
I14	04 Nov 2020	1143	27	2e	<2	2e	1.00	15.0	87.75	6.6	33.46	8.1
I16	04 Nov 2020	1029	2	<20	<2	2e	0.10	17.9	78.15	8.5	33.45	8.2
I16	04 Nov 2020	1029	18	<2	<2	2e	1.00	15.0	87.44	6.7	33.45	8.1
I16	04 Nov 2020	1029	27	2e	<2	<2	1.00	15.0	87.46	6.6	33.46	8.1
I18	04 Nov 2020	1011	2	<20	<2	<2	0.10	17.5	80.41	8.3	33.46	8.2
I18	04 Nov 2020	1011	12	10e	<2	2e	0.20	15.9	85.44	7.2	33.46	8.1
I18	04 Nov 2020	1011	18	18e	<2	<2	0.11	15.9	85.50	7.0	33.46	8.1
I20	04 Nov 2020	825	2	<2	<2	<2	1.00	18.9	89.02	8.0	33.62	8.2
I20	04 Nov 2020	825	18	<2	<2	<2	1.00	15.2	87.47	6.8	33.48	8.1
I20	04 Nov 2020	825	55	<2	<2	<2	1.00	13.1	92.54	5.6	33.55	8.0
I21	04 Nov 2020	912	2	<2	<2	<2	1.00	18.8	87.76	8.0	33.61	8.2
I21	04 Nov 2020	912	18	<2	<2	<2	1.00	16.3	85.30	7.5	33.49	8.2
I21	04 Nov 2020	912	37	2e	<2	<2	1.00	14.2	90.51	6.1	33.48	8.0
I22	04 Nov 2020	946	2	<20	<2	<2	0.10	18.0	79.36	8.6	33.44	8.2
I22	04 Nov 2020	946	18	<20	2e	<2	0.10	15.2	87.42	6.7	33.45	8.1
I22	04 Nov 2020	946	27	4e	2e	<2	0.50	15.1	87.85	6.6	33.46	8.1
I23	04 Nov 2020	1000	2	20e	<2	<2	0.10	17.7	79.37	8.3	33.45	8.2
I23	04 Nov 2020	1000	12	16e	2e	<2	0.12	16.0	85.44	7.2	33.46	8.1
I23	04 Nov 2020	1000	18	80e	2e	2e	0.02	15.9	85.94	7.1	33.46	8.1
I3	03 Nov 2020	1038	2	2e	<2	<2	1.00	18.2	80.44	9.0	33.48	8.3
I3	03 Nov 2020	1038	18	<2	<2	<2	1.00	15.5	85.33	7.2	33.47	8.1
I3	03 Nov 2020	1038	27	2e	<2	2e	1.00	14.9	87.42	6.7	33.45	8.1
I30	05 Nov 2020	931	2	<2	<2	<2	1.00	17.9	81.48	8.7	33.48	8.2
I30	05 Nov 2020	931	18	<2	<2	2e	1.00	15.2	87.91	6.8	33.45	8.1
I30	05 Nov 2020	931	27	<2	<2	<2	1.00	14.8	89.15	6.2	33.47	8.0

Station	Date	Time	Depth	Total	Fecal	Enterococci	F:T	Temp	XMS	DO	Sal	pH
I33	05 Nov 2020	826	2	<20	<2	<2	0.10	17.9	80.42	8.3	33.52	8.2
I33	05 Nov 2020	826	18	6e	<2	<2	0.33	15.5	86.55	6.5	33.46	8.1
I33	05 Nov 2020	826	27	<2	<2	<2	1.00	14.6	89.29	6.0	33.48	8.0
I36	05 Nov 2020	1008	2	<2	<2	<2	1.00	17.6	73.82	7.7	33.52	8.2
I36	05 Nov 2020	1008	6	2e	2e	<2	1.00	16.6	82.98	7.2	33.48	8.1
I36	05 Nov 2020	1008	11	20e	<2	<2	0.10	16.2	83.82	6.4	33.47	8.1
I37	05 Nov 2020	756	2	<2	<2	<2	1.00	18.0	81.79	8.6	33.50	8.2
I37	05 Nov 2020	756	6	<2	<2	<2	1.00	17.6	80.73	7.6	33.51	8.2
I37	05 Nov 2020	756	11	<2	<2	<2	1.00	17.0	81.31	6.9	33.52	8.1
I38	05 Nov 2020	1043	2	<2	<2	<2	1.00	18.2	81.90	8.5	33.53	8.2
I38	05 Nov 2020	1043	6	2e	10e	<2	5.00	17.7	81.50	7.8	33.53	8.2
I38	05 Nov 2020	1043	11	<20	2e	<2	0.10	16.1	77.66	5.0	33.47	8.0
I15	03 Nov 2020	1100	2	>16000	9600	5400	0.60	17.3	70.01	8.2	33.38	8.2
I15	03 Nov 2020	1100	6	4000	600	120e	0.15	16.8	80.12	7.7	33.47	8.2
I15	03 Nov 2020	1100	11	3400e	500	140e	0.15	16.8	79.22	7.6	33.47	8.2
I17	03 Nov 2020	912	2	<2	<2	<2	1.00	19.2	89.56	7.8	33.64	8.2
I17	03 Nov 2020	912	18	<2	<2	<2	1.00	15.5	86.38	7.2	33.48	8.1
I17	03 Nov 2020	912	52	<2	<2	<2	1.00	12.7	92.99	5.7	33.58	7.9
I18	03 Nov 2020	1208	2	2e	<2	<2	1.00	18.0	84.88	8.2	33.57	8.2
I18	03 Nov 2020	1208	18	<2	<2	<2	1.00	15.8	85.59	7.2	33.48	8.2
I18	03 Nov 2020	1208	37	2e	<2	<2	1.00	14.4	90.10	6.0	33.48	8.0
I19	03 Nov 2020	1157	2	<20	<2	2e	0.10	18.4	79.97	8.8	33.50	8.3
I19	03 Nov 2020	1157	18	4e	<2	<2	0.50	15.0	86.53	6.7	33.46	8.1
I19	03 Nov 2020	1157	27	<2	<2	<2	1.00	14.9	88.17	6.4	33.47	8.1

ns = not sampled
ND = no data

Table 4.6

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

Station	Date	Parameter	Value
I1	03 Nov 2020	Depth (m)	62
I1	03 Nov 2020	Arrive Time	938
I1	03 Nov 2020	Depart Time	1004
I1	03 Nov 2020	Air Temp (C)	17
I1	03 Nov 2020	Weather	Fog
I1	03 Nov 2020	Visibility (mi)	< 1
I1	03 Nov 2020	Wind Speed (kts)	5
I1	03 Nov 2020	Wind Dir	SW
I1	03 Nov 2020	Water Color	Green
I1	03 Nov 2020	Wave Ht Low (ft)	3
I1	03 Nov 2020	Wave Period (sec)	9
I1	03 Nov 2020	Sea State	Calm
I1	03 Nov 2020	High Tide (ft)	6.33
I1	03 Nov 2020	High Tide Time	2106
I1	03 Nov 2020	Low Tide (ft)	-0.71
I1	03 Nov 2020	Low Tide Time	405
I1	03 Nov 2020	Comments	none
I10	03 Nov 2020	Depth (m)	21
I10	03 Nov 2020	Arrive Time	1143
I10	03 Nov 2020	Depart Time	1148
I10	03 Nov 2020	Air Temp (C)	17
I10	03 Nov 2020	Weather	Fog
I10	03 Nov 2020	Visibility (mi)	3
I10	03 Nov 2020	Wind Speed (kts)	5
I10	03 Nov 2020	Wind Dir	W
I10	03 Nov 2020	Water Color	Green
I10	03 Nov 2020	Wave Ht Low (ft)	3
I10	03 Nov 2020	Wave Period (sec)	9
I10	03 Nov 2020	Sea State	Calm
I10	03 Nov 2020	High Tide (ft)	6.33
I10	03 Nov 2020	High Tide Time	2106
I10	03 Nov 2020	Low Tide (ft)	-0.71
I10	03 Nov 2020	Low Tide Time	405
I10	03 Nov 2020	Comments	none
I11	03 Nov 2020	Depth (m)	15
I11	03 Nov 2020	Arrive Time	1133
I11	03 Nov 2020	Depart Time	1136
I11	03 Nov 2020	Air Temp (C)	16
I11	03 Nov 2020	Weather	Fog
I11	03 Nov 2020	Visibility (mi)	2
I11	03 Nov 2020	Wind Speed (kts)	3
I11	03 Nov 2020	Wind Dir	NW
I11	03 Nov 2020	Water Color	Green
I11	03 Nov 2020	Wave Ht Low (ft)	3
I11	03 Nov 2020	Wave Period (sec)	9
I11	03 Nov 2020	Sea State	Calm
I11	03 Nov 2020	High Tide (ft)	6.33
I11	03 Nov 2020	High Tide Time	2106
I11	03 Nov 2020	Low Tide (ft)	-0.71
I11	03 Nov 2020	Low Tide Time	405
I11	03 Nov 2020	Comments	none
I12	04 Nov 2020	Depth (m)	30
I12	04 Nov 2020	Arrive Time	1037

Station	Date	Parameter	Value
I12	04 Nov 2020	Depart Time	1039
I12	04 Nov 2020	Air Temp (C)	16
I12	04 Nov 2020	Weather	Haze
I12	04 Nov 2020	Visibility (mi)	8
I12	04 Nov 2020	Wind Speed (kts)	10
I12	04 Nov 2020	Wind Dir	NW
I12	04 Nov 2020	Water Color	Green
I12	04 Nov 2020	Wave Ht Low (ft)	2
I12	04 Nov 2020	Wave Period (sec)	13
I12	04 Nov 2020	Sea State	Light chop
I12	04 Nov 2020	High Tide (ft)	6.33
I12	04 Nov 2020	High Tide Time	2106
I12	04 Nov 2020	Low Tide (ft)	-0.71
I12	04 Nov 2020	Low Tide Time	405
I12	04 Nov 2020	Comments	none
I13	04 Nov 2020	Depth (m)	40
I13	04 Nov 2020	Arrive Time	1128
I13	04 Nov 2020	Depart Time	1131
I13	04 Nov 2020	Air Temp (C)	17
I13	04 Nov 2020	Weather	Haze
I13	04 Nov 2020	Visibility (mi)	10
I13	04 Nov 2020	Wind Speed (kts)	11
I13	04 Nov 2020	Wind Dir	N
I13	04 Nov 2020	Water Color	Greenish-Blue
I13	04 Nov 2020	Wave Ht Low (ft)	2
I13	04 Nov 2020	Wave Period (sec)	13
I13	04 Nov 2020	Sea State	Light chop
I13	04 Nov 2020	High Tide (ft)	6.33
I13	04 Nov 2020	High Tide Time	2106
I13	04 Nov 2020	Low Tide (ft)	-0.71
I13	04 Nov 2020	Low Tide Time	405
I13	04 Nov 2020	Comments	none
I14	04 Nov 2020	Depth (m)	30
I14	04 Nov 2020	Arrive Time	1143
I14	04 Nov 2020	Depart Time	1145
I14	04 Nov 2020	Air Temp (C)	17
I14	04 Nov 2020	Weather	Haze
I14	04 Nov 2020	Visibility (mi)	10
I14	04 Nov 2020	Wind Speed (kts)	12
I14	04 Nov 2020	Wind Dir	NW
I14	04 Nov 2020	Water Color	Greenish-Blue
I14	04 Nov 2020	Wave Ht Low (ft)	2
I14	04 Nov 2020	Wave Period (sec)	13
I14	04 Nov 2020	Sea State	Heavy chop
I14	04 Nov 2020	High Tide (ft)	6.33
I14	04 Nov 2020	High Tide Time	2106
I14	04 Nov 2020	Low Tide (ft)	-0.71
I14	04 Nov 2020	Low Tide Time	405
I14	04 Nov 2020	Comments	none
I15	04 Nov 2020	Depth (m)	33
I15	04 Nov 2020	Arrive Time	1113
I15	04 Nov 2020	Depart Time	1118
I15	04 Nov 2020	Air Temp (C)	17
I15	04 Nov 2020	Weather	Haze
I15	04 Nov 2020	Visibility (mi)	10
I15	04 Nov 2020	Wind Speed (kts)	10
I15	04 Nov 2020	Wind Dir	NW
I15	04 Nov 2020	Water Color	Green

Station	Date	Parameter	Value
I15	04 Nov 2020	Wave Ht Low (ft)	2
I15	04 Nov 2020	Wave Period (sec)	13
I15	04 Nov 2020	Sea State	Light chop
I15	04 Nov 2020	High Tide (ft)	6.33
I15	04 Nov 2020	High Tide Time	2106
I15	04 Nov 2020	Low Tide (ft)	-0.71
I15	04 Nov 2020	Low Tide Time	405
I15	04 Nov 2020	Comments	none
I16	04 Nov 2020	Depth (m)	30
I16	04 Nov 2020	Arrive Time	1029
I16	04 Nov 2020	Depart Time	1032
I16	04 Nov 2020	Air Temp (C)	17
I16	04 Nov 2020	Weather	Haze
I16	04 Nov 2020	Visibility (mi)	8
I16	04 Nov 2020	Wind Speed (kts)	7
I16	04 Nov 2020	Wind Dir	NW
I16	04 Nov 2020	Water Color	Green
I16	04 Nov 2020	Wave Ht Low (ft)	2
I16	04 Nov 2020	Wave Period (sec)	13
I16	04 Nov 2020	Sea State	Light chop
I16	04 Nov 2020	High Tide (ft)	6.33
I16	04 Nov 2020	High Tide Time	2106
I16	04 Nov 2020	Low Tide (ft)	-0.71
I16	04 Nov 2020	Low Tide Time	405
I16	04 Nov 2020	Comments	none
I17	04 Nov 2020	Depth (m)	27
I17	04 Nov 2020	Arrive Time	1022
I17	04 Nov 2020	Depart Time	1025
I17	04 Nov 2020	Air Temp (C)	17
I17	04 Nov 2020	Weather	Haze
I17	04 Nov 2020	Visibility (mi)	6
I17	04 Nov 2020	Wind Speed (kts)	4
I17	04 Nov 2020	Wind Dir	N
I17	04 Nov 2020	Water Color	Green
I17	04 Nov 2020	Wave Ht Low (ft)	2
I17	04 Nov 2020	Wave Period (sec)	13
I17	04 Nov 2020	Sea State	Light chop
I17	04 Nov 2020	High Tide (ft)	6.33
I17	04 Nov 2020	High Tide Time	2106
I17	04 Nov 2020	Low Tide (ft)	-0.71
I17	04 Nov 2020	Low Tide Time	405
I17	04 Nov 2020	Comments	none
I18	04 Nov 2020	Depth (m)	21
I18	04 Nov 2020	Arrive Time	1011
I18	04 Nov 2020	Depart Time	1013
I18	04 Nov 2020	Air Temp (C)	16
I18	04 Nov 2020	Weather	Haze
I18	04 Nov 2020	Visibility (mi)	2
I18	04 Nov 2020	Wind Speed (kts)	4
I18	04 Nov 2020	Wind Dir	NW
I18	04 Nov 2020	Water Color	Green
I18	04 Nov 2020	Wave Ht Low (ft)	2
I18	04 Nov 2020	Wave Period (sec)	13
I18	04 Nov 2020	Sea State	Light chop
I18	04 Nov 2020	High Tide (ft)	6.33
I18	04 Nov 2020	High Tide Time	2106
I18	04 Nov 2020	Low Tide (ft)	-0.71
I18	04 Nov 2020	Low Tide Time	405

Station	Date	Parameter	Value
I18	04 Nov 2020	Comments	none
I2	03 Nov 2020	Depth (m)	35
I2	03 Nov 2020	Arrive Time	1023
I2	03 Nov 2020	Depart Time	1031
I2	03 Nov 2020	Air Temp (C)	17
I2	03 Nov 2020	Weather	Fog
I2	03 Nov 2020	Visibility (mi)	1
I2	03 Nov 2020	Wind Speed (kts)	7
I2	03 Nov 2020	Wind Dir	E
I2	03 Nov 2020	Water Color	Green
I2	03 Nov 2020	Wave Ht Low (ft)	3
I2	03 Nov 2020	Wave Period (sec)	9
I2	03 Nov 2020	Sea State	Calm
I2	03 Nov 2020	High Tide (ft)	6.33
I2	03 Nov 2020	High Tide Time	2106
I2	03 Nov 2020	Low Tide (ft)	-0.71
I2	03 Nov 2020	Low Tide Time	405
I2	03 Nov 2020	Comments	none
I20	04 Nov 2020	Depth (m)	57
I20	04 Nov 2020	Arrive Time	852
I20	04 Nov 2020	Depart Time	857
I20	04 Nov 2020	Air Temp (C)	16
I20	04 Nov 2020	Weather	Fog
I20	04 Nov 2020	Visibility (mi)	< 1
I20	04 Nov 2020	Wind Speed (kts)	5
I20	04 Nov 2020	Wind Dir	NE
I20	04 Nov 2020	Water Color	Greenish-Blue
I20	04 Nov 2020	Wave Ht Low (ft)	2
I20	04 Nov 2020	Wave Period (sec)	13
I20	04 Nov 2020	Sea State	Calm
I20	04 Nov 2020	High Tide (ft)	6.33
I20	04 Nov 2020	High Tide Time	2106
I20	04 Nov 2020	Low Tide (ft)	-0.71
I20	04 Nov 2020	Low Tide Time	405
I20	04 Nov 2020	Comments	none
I21	04 Nov 2020	Depth (m)	43
I21	04 Nov 2020	Arrive Time	912
I21	04 Nov 2020	Depart Time	918
I21	04 Nov 2020	Air Temp (C)	16
I21	04 Nov 2020	Weather	Fog
I21	04 Nov 2020	Visibility (mi)	< 1
I21	04 Nov 2020	Wind Speed (kts)	6
I21	04 Nov 2020	Wind Dir	NE
I21	04 Nov 2020	Water Color	Greenish-Blue
I21	04 Nov 2020	Wave Ht Low (ft)	2
I21	04 Nov 2020	Wave Period (sec)	13
I21	04 Nov 2020	Sea State	Calm
I21	04 Nov 2020	High Tide (ft)	6.33
I21	04 Nov 2020	High Tide Time	2106
I21	04 Nov 2020	Low Tide (ft)	-0.71
I21	04 Nov 2020	Low Tide Time	405
I21	04 Nov 2020	Comments	none
I22	04 Nov 2020	Depth (m)	30
I22	04 Nov 2020	Arrive Time	946
I22	04 Nov 2020	Depart Time	953
I22	04 Nov 2020	Air Temp (C)	16
I22	04 Nov 2020	Weather	Fog

Station	Date	Parameter	Value
I22	04 Nov 2020	Visibility (mi)	< 1
I22	04 Nov 2020	Wind Speed (kts)	7
I22	04 Nov 2020	Wind Dir	N
I22	04 Nov 2020	Water Color	Green
I22	04 Nov 2020	Wave Ht Low (ft)	2
I22	04 Nov 2020	Wave Period (sec)	13
I22	04 Nov 2020	Sea State	Calm
I22	04 Nov 2020	High Tide (ft)	6.33
I22	04 Nov 2020	High Tide Time	2106
I22	04 Nov 2020	Low Tide (ft)	-0.71
I22	04 Nov 2020	Low Tide Time	405
I22	04 Nov 2020	Comments	none
I23	04 Nov 2020	Depth (m)	23
I23	04 Nov 2020	Arrive Time	1000
I23	04 Nov 2020	Depart Time	1004
I23	04 Nov 2020	Air Temp (C)	16
I23	04 Nov 2020	Weather	Fog
I23	04 Nov 2020	Visibility (mi)	< 1
I23	04 Nov 2020	Wind Speed (kts)	5
I23	04 Nov 2020	Wind Dir	N
I23	04 Nov 2020	Water Color	Green
I23	04 Nov 2020	Wave Ht Low (ft)	2
I23	04 Nov 2020	Wave Period (sec)	13
I23	04 Nov 2020	Sea State	Calm
I23	04 Nov 2020	High Tide (ft)	6.33
I23	04 Nov 2020	High Tide Time	2106
I23	04 Nov 2020	Low Tide (ft)	-0.71
I23	04 Nov 2020	Low Tide Time	405
I23	04 Nov 2020	Comments	none
I27	04 Nov 2020	Depth (m)	30
I27	04 Nov 2020	Arrive Time	933
I27	04 Nov 2020	Depart Time	937
I27	04 Nov 2020	Air Temp (C)	16
I27	04 Nov 2020	Weather	Fog
I27	04 Nov 2020	Visibility (mi)	< 1
I27	04 Nov 2020	Wind Speed (kts)	5
I27	04 Nov 2020	Wind Dir	N
I27	04 Nov 2020	Water Color	Greenish-Blue
I27	04 Nov 2020	Wave Ht Low (ft)	2
I27	04 Nov 2020	Wave Period (sec)	13
I27	04 Nov 2020	Sea State	Calm
I27	04 Nov 2020	High Tide (ft)	6.33
I27	04 Nov 2020	High Tide Time	2106
I27	04 Nov 2020	Low Tide (ft)	-0.71
I27	04 Nov 2020	Low Tide Time	405
I27	04 Nov 2020	Comments	none
I28	05 Nov 2020	Depth (m)	58
I28	05 Nov 2020	Arrive Time	847
I28	05 Nov 2020	Depart Time	858
I28	05 Nov 2020	Air Temp (C)	19
I28	05 Nov 2020	Weather	Partly Cloudy
I28	05 Nov 2020	Visibility (mi)	5
I28	05 Nov 2020	Wind Speed (kts)	6
I28	05 Nov 2020	Wind Dir	NW
I28	05 Nov 2020	Water Color	Green
I28	05 Nov 2020	Wave Ht Low (ft)	2
I28	05 Nov 2020	Wave Period (sec)	9
I28	05 Nov 2020	Sea State	Calm

Station	Date	Parameter	Value
I28	05 Nov 2020	High Tide (ft)	6.33
I28	05 Nov 2020	High Tide Time	2106
I28	05 Nov 2020	Low Tide (ft)	-0.71
I28	05 Nov 2020	Low Tide Time	405
I28	05 Nov 2020	Comments	none
I29	05 Nov 2020	Depth (m)	39
I29	05 Nov 2020	Arrive Time	911
I29	05 Nov 2020	Depart Time	920
I29	05 Nov 2020	Air Temp (C)	19
I29	05 Nov 2020	Weather	Partly Cloudy
I29	05 Nov 2020	Visibility (mi)	5
I29	05 Nov 2020	Wind Speed (kts)	7
I29	05 Nov 2020	Wind Dir	NW
I29	05 Nov 2020	Water Color	Green
I29	05 Nov 2020	Wave Ht Low (ft)	2
I29	05 Nov 2020	Wave Period (sec)	9
I29	05 Nov 2020	Sea State	Calm
I29	05 Nov 2020	High Tide (ft)	6.33
I29	05 Nov 2020	High Tide Time	2106
I29	05 Nov 2020	Low Tide (ft)	-0.71
I29	05 Nov 2020	Low Tide Time	405
I29	05 Nov 2020	Comments	none
I3	03 Nov 2020	Depth (m)	28
I3	03 Nov 2020	Arrive Time	1038
I3	03 Nov 2020	Depart Time	1043
I3	03 Nov 2020	Air Temp (C)	17
I3	03 Nov 2020	Weather	Fog
I3	03 Nov 2020	Visibility (mi)	2
I3	03 Nov 2020	Wind Speed (kts)	5
I3	03 Nov 2020	Wind Dir	NE
I3	03 Nov 2020	Water Color	Green
I3	03 Nov 2020	Wave Ht Low (ft)	3
I3	03 Nov 2020	Wave Period (sec)	9
I3	03 Nov 2020	Sea State	Calm
I3	03 Nov 2020	High Tide (ft)	6.33
I3	03 Nov 2020	High Tide Time	2106
I3	03 Nov 2020	Low Tide (ft)	-0.71
I3	03 Nov 2020	Low Tide Time	405
I3	03 Nov 2020	Comments	none
I30	05 Nov 2020	Depth (m)	30
I30	05 Nov 2020	Arrive Time	931
I30	05 Nov 2020	Depart Time	936
I30	05 Nov 2020	Air Temp (C)	19
I30	05 Nov 2020	Weather	Partly Cloudy
I30	05 Nov 2020	Visibility (mi)	5
I30	05 Nov 2020	Wind Speed (kts)	2
I30	05 Nov 2020	Wind Dir	N
I30	05 Nov 2020	Water Color	Green
I30	05 Nov 2020	Wave Ht Low (ft)	2
I30	05 Nov 2020	Wave Period (sec)	9
I30	05 Nov 2020	Sea State	Calm
I30	05 Nov 2020	High Tide (ft)	6.33
I30	05 Nov 2020	High Tide Time	2106
I30	05 Nov 2020	Low Tide (ft)	-0.71
I30	05 Nov 2020	Low Tide Time	405
I30	05 Nov 2020	Comments	none
I31	05 Nov 2020	Depth (m)	21

Station	Date	Parameter	Value
I31	05 Nov 2020	Arrive Time	944
I31	05 Nov 2020	Depart Time	951
I31	05 Nov 2020	Air Temp (C)	19
I31	05 Nov 2020	Weather	Partly Cloudy
I31	05 Nov 2020	Visibility (mi)	5
I31	05 Nov 2020	Wind Speed (kts)	5
I31	05 Nov 2020	Wind Dir	NW
I31	05 Nov 2020	Water Color	Green
I31	05 Nov 2020	Wave Ht Low (ft)	2
I31	05 Nov 2020	Wave Period (sec)	9
I31	05 Nov 2020	Sea State	Calm
I31	05 Nov 2020	High Tide (ft)	6.33
I31	05 Nov 2020	High Tide Time	2106
I31	05 Nov 2020	Low Tide (ft)	-0.71
I31	05 Nov 2020	Low Tide Time	405
I31	05 Nov 2020	Comments	none
I33	05 Nov 2020	Depth (m)	32
I33	05 Nov 2020	Arrive Time	826
I33	05 Nov 2020	Depart Time	832
I33	05 Nov 2020	Air Temp (C)	18
I33	05 Nov 2020	Weather	Partly Cloudy
I33	05 Nov 2020	Visibility (mi)	5
I33	05 Nov 2020	Wind Speed (kts)	7
I33	05 Nov 2020	Wind Dir	N
I33	05 Nov 2020	Water Color	Green
I33	05 Nov 2020	Wave Ht Low (ft)	2
I33	05 Nov 2020	Wave Period (sec)	9
I33	05 Nov 2020	Sea State	Calm
I33	05 Nov 2020	High Tide (ft)	6.33
I33	05 Nov 2020	High Tide Time	2106
I33	05 Nov 2020	Low Tide (ft)	-0.71
I33	05 Nov 2020	Low Tide Time	405
I33	05 Nov 2020	Comments	none
I34	05 Nov 2020	Depth (m)	20
I34	05 Nov 2020	Arrive Time	809
I34	05 Nov 2020	Depart Time	815
I34	05 Nov 2020	Air Temp (C)	18
I34	05 Nov 2020	Weather	Partly Cloudy
I34	05 Nov 2020	Visibility (mi)	5
I34	05 Nov 2020	Wind Speed (kts)	5
I34	05 Nov 2020	Wind Dir	E
I34	05 Nov 2020	Water Color	Green
I34	05 Nov 2020	Wave Ht Low (ft)	2
I34	05 Nov 2020	Wave Period (sec)	9
I34	05 Nov 2020	Sea State	Calm
I34	05 Nov 2020	High Tide (ft)	6.33
I34	05 Nov 2020	High Tide Time	2106
I34	05 Nov 2020	Low Tide (ft)	-0.71
I34	05 Nov 2020	Low Tide Time	405
I34	05 Nov 2020	Comments	none
I35	05 Nov 2020	Depth (m)	19
I35	05 Nov 2020	Arrive Time	1023
I35	05 Nov 2020	Depart Time	1027
I35	05 Nov 2020	Air Temp (C)	20
I35	05 Nov 2020	Weather	Partly Cloudy
I35	05 Nov 2020	Visibility (mi)	5
I35	05 Nov 2020	Wind Speed (kts)	3
I35	05 Nov 2020	Wind Dir	NW

Station	Date	Parameter	Value
I35	05 Nov 2020	Water Color	Green
I35	05 Nov 2020	Wave Ht Low (ft)	2
I35	05 Nov 2020	Wave Period (sec)	9
I35	05 Nov 2020	Sea State	Calm
I35	05 Nov 2020	High Tide (ft)	6.33
I35	05 Nov 2020	High Tide Time	2106
I35	05 Nov 2020	Low Tide (ft)	-0.71
I35	05 Nov 2020	Low Tide Time	405
I35	05 Nov 2020	Comments	none
I36	05 Nov 2020	Depth (m)	13
I36	05 Nov 2020	Arrive Time	1008
I36	05 Nov 2020	Depart Time	1013
I36	05 Nov 2020	Air Temp (C)	20
I36	05 Nov 2020	Weather	Partly Cloudy
I36	05 Nov 2020	Visibility (mi)	5
I36	05 Nov 2020	Wind Speed (kts)	3
I36	05 Nov 2020	Wind Dir	NW
I36	05 Nov 2020	Water Color	Green
I36	05 Nov 2020	Wave Ht Low (ft)	2
I36	05 Nov 2020	Wave Period (sec)	9
I36	05 Nov 2020	Sea State	Calm
I36	05 Nov 2020	High Tide (ft)	6.33
I36	05 Nov 2020	High Tide Time	2106
I36	05 Nov 2020	Low Tide (ft)	-0.71
I36	05 Nov 2020	Low Tide Time	405
I36	05 Nov 2020	Comments	none
I37	05 Nov 2020	Depth (m)	14
I37	05 Nov 2020	Arrive Time	756
I37	05 Nov 2020	Depart Time	803
I37	05 Nov 2020	Air Temp (C)	18
I37	05 Nov 2020	Weather	Partly Cloudy
I37	05 Nov 2020	Visibility (mi)	5
I37	05 Nov 2020	Wind Speed (kts)	2
I37	05 Nov 2020	Wind Dir	NE
I37	05 Nov 2020	Water Color	Green
I37	05 Nov 2020	Wave Ht Low (ft)	2
I37	05 Nov 2020	Wave Period (sec)	9
I37	05 Nov 2020	Sea State	Calm
I37	05 Nov 2020	High Tide (ft)	6.33
I37	05 Nov 2020	High Tide Time	2106
I37	05 Nov 2020	Low Tide (ft)	-0.71
I37	05 Nov 2020	Low Tide Time	405
I37	05 Nov 2020	Comments	none
I38	05 Nov 2020	Depth (m)	13
I38	05 Nov 2020	Arrive Time	1043
I38	05 Nov 2020	Depart Time	1046
I38	05 Nov 2020	Air Temp (C)	22
I38	05 Nov 2020	Weather	Partly Cloudy
I38	05 Nov 2020	Visibility (mi)	5
I38	05 Nov 2020	Wind Speed (kts)	5
I38	05 Nov 2020	Wind Dir	NW
I38	05 Nov 2020	Water Color	Green
I38	05 Nov 2020	Wave Ht Low (ft)	2
I38	05 Nov 2020	Wave Period (sec)	9
I38	05 Nov 2020	Sea State	Calm
I38	05 Nov 2020	High Tide (ft)	6.33
I38	05 Nov 2020	High Tide Time	2106
I38	05 Nov 2020	Low Tide (ft)	-0.71

Station	Date	Parameter	Value
I38	05 Nov 2020	Low Tide Time	405
I38	05 Nov 2020	Comments	none
14	03 Nov 2020	Depth (m)	21
14	03 Nov 2020	Arrive Time	1052
14	03 Nov 2020	Depart Time	1057
14	03 Nov 2020	Air Temp (C)	17
14	03 Nov 2020	Weather	Fog
14	03 Nov 2020	Visibility (mi)	2
14	03 Nov 2020	Wind Speed (kts)	8
14	03 Nov 2020	Wind Dir	N
14	03 Nov 2020	Water Color	Green
14	03 Nov 2020	Wave Ht Low (ft)	3
14	03 Nov 2020	Wave Period (sec)	9
14	03 Nov 2020	Sea State	Calm
14	03 Nov 2020	High Tide (ft)	6.33
14	03 Nov 2020	High Tide Time	2106
14	03 Nov 2020	Low Tide (ft)	-0.71
14	03 Nov 2020	Low Tide Time	405
14	03 Nov 2020	Comments	none
15	03 Nov 2020	Depth (m)	16
15	03 Nov 2020	Arrive Time	1100
15	03 Nov 2020	Depart Time	1104
15	03 Nov 2020	Air Temp (C)	17
15	03 Nov 2020	Weather	Fog
15	03 Nov 2020	Visibility (mi)	1
15	03 Nov 2020	Wind Speed (kts)	8
15	03 Nov 2020	Wind Dir	N
15	03 Nov 2020	Water Color	Green
15	03 Nov 2020	Wave Ht Low (ft)	3
15	03 Nov 2020	Wave Period (sec)	9
15	03 Nov 2020	Sea State	Calm
15	03 Nov 2020	High Tide (ft)	6.33
15	03 Nov 2020	High Tide Time	2106
15	03 Nov 2020	Low Tide (ft)	-0.71
15	03 Nov 2020	Low Tide Time	405
15	03 Nov 2020	Comments	none
16	03 Nov 2020	Depth (m)	27
16	03 Nov 2020	Arrive Time	1117
16	03 Nov 2020	Depart Time	1121
16	03 Nov 2020	Air Temp (C)	16
16	03 Nov 2020	Weather	Fog
16	03 Nov 2020	Visibility (mi)	1
16	03 Nov 2020	Wind Speed (kts)	6
16	03 Nov 2020	Wind Dir	NW
16	03 Nov 2020	Water Color	Green
16	03 Nov 2020	Wave Ht Low (ft)	3
16	03 Nov 2020	Wave Period (sec)	9
16	03 Nov 2020	Sea State	Calm
16	03 Nov 2020	High Tide (ft)	6.33
16	03 Nov 2020	High Tide Time	2106
16	03 Nov 2020	Low Tide (ft)	-0.71
16	03 Nov 2020	Low Tide Time	405
16	03 Nov 2020	Comments	none
17	03 Nov 2020	Depth (m)	53
17	03 Nov 2020	Arrive Time	912
17	03 Nov 2020	Depart Time	922
17	03 Nov 2020	Air Temp (C)	17

Station	Date	Parameter	Value
17	03 Nov 2020	Weather	Fog
17	03 Nov 2020	Visibility (mi)	1
17	03 Nov 2020	Wind Speed (kts)	1
17	03 Nov 2020	Wind Dir	S
17	03 Nov 2020	Water Color	Green
17	03 Nov 2020	Wave Ht Low (ft)	3
17	03 Nov 2020	Wave Period (sec)	9
17	03 Nov 2020	Sea State	Calm
17	03 Nov 2020	High Tide (ft)	6.33
17	03 Nov 2020	High Tide Time	2106
17	03 Nov 2020	Low Tide (ft)	-0.71
17	03 Nov 2020	Low Tide Time	405
17	03 Nov 2020	Comments	none
18	03 Nov 2020	Depth (m)	37
18	03 Nov 2020	Arrive Time	1208
18	03 Nov 2020	Depart Time	1215
18	03 Nov 2020	Air Temp (C)	17
18	03 Nov 2020	Weather	Fog
18	03 Nov 2020	Visibility (mi)	2
18	03 Nov 2020	Wind Speed (kts)	7
18	03 Nov 2020	Wind Dir	W
18	03 Nov 2020	Water Color	Green
18	03 Nov 2020	Wave Ht Low (ft)	3
18	03 Nov 2020	Wave Period (sec)	9
18	03 Nov 2020	Sea State	Calm
18	03 Nov 2020	High Tide (ft)	6.33
18	03 Nov 2020	High Tide Time	2106
18	03 Nov 2020	Low Tide (ft)	-0.71
18	03 Nov 2020	Low Tide Time	405
18	03 Nov 2020	Comments	none
19	03 Nov 2020	Depth (m)	31
19	03 Nov 2020	Arrive Time	1157
19	03 Nov 2020	Depart Time	1200
19	03 Nov 2020	Air Temp (C)	17
19	03 Nov 2020	Weather	Fog
19	03 Nov 2020	Visibility (mi)	1
19	03 Nov 2020	Wind Speed (kts)	2
19	03 Nov 2020	Wind Dir	W
19	03 Nov 2020	Water Color	Green
19	03 Nov 2020	Wave Ht Low (ft)	3
19	03 Nov 2020	Wave Period (sec)	9
19	03 Nov 2020	Sea State	Calm
19	03 Nov 2020	High Tide (ft)	6.33
19	03 Nov 2020	High Tide Time	2106
19	03 Nov 2020	Low Tide (ft)	-0.71
19	03 Nov 2020	Low Tide Time	405
19	03 Nov 2020	Comments	none

Table 4.7

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

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I1	03 Nov 2020	1	18.21	84.71	8.4	33.53	8.2	24.1	1.10
I1	03 Nov 2020	2	18.17	84.47	8.3	33.53	8.2	24.1	1.26
I1	03 Nov 2020	3	18.10	84.16	8.3	33.53	8.2	24.1	1.54
I1	03 Nov 2020	4	18.03	83.75	8.3	33.53	8.2	24.1	1.84
I1	03 Nov 2020	5	17.93	83.40	8.3	33.52	8.2	24.2	2.14
I1	03 Nov 2020	6	17.87	83.45	8.3	33.52	8.2	24.2	2.46
I1	03 Nov 2020	7	17.79	83.60	8.2	33.52	8.2	24.2	2.63
I1	03 Nov 2020	8	17.69	83.78	8.3	33.52	8.2	24.2	2.79
I1	03 Nov 2020	9	17.67	84.03	8.2	33.52	8.2	24.2	2.78
I1	03 Nov 2020	10	17.62	84.27	8.2	33.52	8.2	24.2	2.84
I1	03 Nov 2020	11	17.60	84.47	8.1	33.52	8.2	24.2	2.84
I1	03 Nov 2020	12	17.52	84.58	8.1	33.52	8.2	24.3	2.91
I1	03 Nov 2020	13	17.24	84.77	8.0	33.52	8.2	24.3	3.12
I1	03 Nov 2020	14	17.05	84.86	7.7	33.51	8.2	24.4	3.20
I1	03 Nov 2020	15	16.29	85.20	7.4	33.50	8.2	24.5	3.25
I1	03 Nov 2020	16	15.92	85.82	7.2	33.49	8.2	24.6	3.13
I1	03 Nov 2020	17	15.71	86.24	7.1	33.48	8.1	24.6	2.77
I1	03 Nov 2020	18	15.30	86.84	6.9	33.48	8.1	24.7	2.42
I1	03 Nov 2020	19	15.14	88.00	6.8	33.48	8.1	24.8	2.07
I1	03 Nov 2020	20	14.95	88.80	6.7	33.48	8.1	24.8	1.77
I1	03 Nov 2020	21	14.87	89.30	6.7	33.48	8.1	24.8	1.61
I1	03 Nov 2020	22	14.85	89.76	6.6	33.48	8.1	24.8	1.61
I1	03 Nov 2020	23	14.74	89.86	6.6	33.48	8.1	24.9	1.50
I1	03 Nov 2020	24	14.54	90.05	6.5	33.48	8.1	24.9	1.34
I1	03 Nov 2020	25	14.42	90.26	6.4	33.49	8.1	24.9	1.20
I1	03 Nov 2020	26	14.39	90.53	6.4	33.49	8.1	24.9	1.11
I1	03 Nov 2020	27	14.37	90.83	6.3	33.49	8.0	24.9	1.09
I1	03 Nov 2020	28	14.33	90.87	6.3	33.49	8.0	25.0	1.02
I1	03 Nov 2020	29	14.27	91.03	6.2	33.50	8.0	25.0	1.01
I1	03 Nov 2020	30	14.22	91.12	6.2	33.49	8.0	25.0	1.00
I1	03 Nov 2020	31	14.14	91.10	6.2	33.50	8.0	25.0	0.99
I1	03 Nov 2020	32	14.08	91.08	6.2	33.50	8.0	25.0	0.95
I1	03 Nov 2020	33	13.92	91.15	6.1	33.51	8.0	25.1	0.82
I1	03 Nov 2020	34	13.63	91.39	6.1	33.52	8.0	25.1	0.72
I1	03 Nov 2020	35	13.54	91.74	6.0	33.52	8.0	25.1	0.62
I1	03 Nov 2020	36	13.50	91.95	6.0	33.52	8.0	25.1	0.58
I1	03 Nov 2020	37	13.44	92.02	6.0	33.52	8.0	25.2	0.57
I1	03 Nov 2020	38	13.42	92.10	6.0	33.52	8.0	25.2	0.54
I1	03 Nov 2020	39	13.39	92.11	5.9	33.52	8.0	25.2	0.52
I1	03 Nov 2020	40	13.39	92.15	5.9	33.52	8.0	25.2	0.51
I1	03 Nov 2020	41	13.39	92.17	5.9	33.52	8.0	25.2	0.51
I1	03 Nov 2020	42	13.39	92.22	5.9	33.52	8.0	25.2	0.51
I1	03 Nov 2020	43	13.39	92.23	5.9	33.52	8.0	25.2	0.49
I1	03 Nov 2020	44	13.39	92.18	5.9	33.52	8.0	25.2	0.50
I1	03 Nov 2020	45	13.39	92.20	5.9	33.52	8.0	25.2	0.50
I1	03 Nov 2020	46	13.38	92.20	5.9	33.52	8.0	25.2	0.50
I1	03 Nov 2020	47	13.38	92.19	5.9	33.52	8.0	25.2	0.50
I1	03 Nov 2020	48	13.38	92.15	5.9	33.53	8.0	25.2	0.51
I1	03 Nov 2020	49	13.38	92.26	5.8	33.53	8.0	25.2	0.51
I1	03 Nov 2020	50	13.37	92.23	5.8	33.53	8.0	25.2	0.51
I1	03 Nov 2020	51	13.37	92.13	5.8	33.53	8.0	25.2	0.49
I1	03 Nov 2020	52	13.36	92.29	5.8	33.53	8.0	25.2	0.49
I1	03 Nov 2020	53	13.36	92.30	5.9	33.53	8.0	25.2	0.49
I1	03 Nov 2020	54	13.36	92.32	5.8	33.53	8.0	25.2	0.49
I1	03 Nov 2020	55	13.35	92.32	5.8	33.53	8.0	25.2	0.48
I1	03 Nov 2020	56	13.35	92.16	5.8	33.53	8.0	25.2	0.48

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I1	03 Nov 2020	57	13.34	92.33	5.8	33.53	8.0	25.2	0.48
I1	03 Nov 2020	58	13.34	92.34	5.8	33.53	8.0	25.2	0.49
I1	03 Nov 2020	59	13.32	92.36	5.8	33.53	8.0	25.2	0.49
I1	03 Nov 2020	60	13.29	92.36	5.8	33.53	8.0	25.2	0.48
I10	03 Nov 2020	1	18.28	76.99	9.3	33.47	8.3	24.0	2.84
I10	03 Nov 2020	2	18.25	77.34	9.1	33.47	8.3	24.0	3.07
I10	03 Nov 2020	3	17.66	77.29	8.7	33.50	8.3	24.2	2.85
I10	03 Nov 2020	4	17.26	79.55	8.3	33.50	8.2	24.3	2.68
I10	03 Nov 2020	5	16.79	81.60	8.0	33.49	8.2	24.4	2.63
I10	03 Nov 2020	6	16.56	82.85	7.8	33.48	8.2	24.5	2.67
I10	03 Nov 2020	7	16.37	83.90	7.7	33.48	8.2	24.5	2.72
I10	03 Nov 2020	8	16.10	84.32	7.5	33.47	8.2	24.6	2.90
I10	03 Nov 2020	9	15.94	84.86	7.4	33.46	8.2	24.6	3.04
I10	03 Nov 2020	10	15.88	84.98	7.3	33.46	8.1	24.6	3.05
I10	03 Nov 2020	11	15.84	84.90	7.3	33.45	8.1	24.6	3.03
I10	03 Nov 2020	12	15.78	84.88	7.2	33.45	8.1	24.6	3.01
I10	03 Nov 2020	13	15.75	84.66	7.2	33.45	8.1	24.6	2.95
I10	03 Nov 2020	14	15.74	85.13	7.1	33.45	8.1	24.6	2.81
I10	03 Nov 2020	15	15.74	85.30	7.1	33.46	8.1	24.6	2.74
I10	03 Nov 2020	16	15.74	85.44	7.0	33.46	8.1	24.6	2.58
I10	03 Nov 2020	17	15.74	85.52	7.0	33.46	8.1	24.6	2.49
I10	03 Nov 2020	18	15.73	85.58	7.0	33.46	8.1	24.6	2.37
I10	03 Nov 2020	19	15.72	85.58	6.9	33.46	8.1	24.6	2.25
I11	03 Nov 2020	1	17.67	78.32	8.2	33.46	8.2	24.2	1.91
I11	03 Nov 2020	2	17.68	78.39	8.2	33.46	8.2	24.2	1.90
I11	03 Nov 2020	3	17.66	78.49	8.2	33.46	8.2	24.2	2.00
I11	03 Nov 2020	4	17.59	78.40	8.2	33.46	8.2	24.2	2.53
I11	03 Nov 2020	5	17.55	77.66	8.3	33.46	8.2	24.2	3.61
I11	03 Nov 2020	6	17.42	76.28	8.3	33.46	8.2	24.2	4.29
I11	03 Nov 2020	7	17.37	76.86	8.3	33.46	8.2	24.2	4.37
I11	03 Nov 2020	8	17.22	78.18	8.2	33.47	8.2	24.3	3.95
I11	03 Nov 2020	9	16.81	81.01	7.9	33.48	8.2	24.4	3.37
I11	03 Nov 2020	10	16.70	82.03	7.7	33.47	8.2	24.4	2.99
I11	03 Nov 2020	11	16.62	81.84	7.6	33.47	8.2	24.4	2.85
I11	03 Nov 2020	12	16.58	81.75	7.5	33.47	8.2	24.4	2.61
I11	03 Nov 2020	13	16.54	82.10	7.4	33.47	8.1	24.4	2.40
I12	04 Nov 2020	1	17.91	77.52	8.4	33.43	8.2	24.1	2.46
I12	04 Nov 2020	2	17.78	77.48	8.3	33.44	8.2	24.1	2.54
I12	04 Nov 2020	3	17.23	77.74	8.1	33.44	8.2	24.3	2.58
I12	04 Nov 2020	4	16.76	79.98	7.8	33.42	8.2	24.4	2.47
I12	04 Nov 2020	5	16.23	82.11	7.5	33.38	8.2	24.4	2.35
I12	04 Nov 2020	6	15.91	83.72	7.3	33.32	8.1	24.5	2.33
I12	04 Nov 2020	7	15.61	84.70	7.1	33.30	8.1	24.5	2.29
I12	04 Nov 2020	8	15.28	85.73	6.9	33.29	8.1	24.6	2.26
I12	04 Nov 2020	9	15.12	86.57	6.8	33.33	8.1	24.7	2.33
I12	04 Nov 2020	10	15.17	86.87	6.9	33.36	8.1	24.7	2.37
I12	04 Nov 2020	11	15.25	86.79	6.9	33.39	8.1	24.7	2.52
I12	04 Nov 2020	12	15.20	86.68	7.0	33.43	8.1	24.7	2.70
I12	04 Nov 2020	13	15.16	86.77	6.9	33.44	8.1	24.7	2.74
I12	04 Nov 2020	14	15.07	86.72	6.8	33.45	8.1	24.8	2.76
I12	04 Nov 2020	15	15.03	86.81	6.8	33.45	8.1	24.8	2.78
I12	04 Nov 2020	16	15.02	86.87	6.8	33.45	8.1	24.8	2.75
I12	04 Nov 2020	17	15.01	87.05	6.7	33.45	8.1	24.8	2.71
I12	04 Nov 2020	18	15.00	87.07	6.7	33.45	8.1	24.8	2.59
I12	04 Nov 2020	19	15.00	87.07	6.7	33.45	8.1	24.8	2.45
I12	04 Nov 2020	20	14.99	86.99	6.7	33.45	8.1	24.8	2.48
I12	04 Nov 2020	21	14.99	87.05	6.6	33.45	8.1	24.8	2.45
I12	04 Nov 2020	22	14.98	87.12	6.7	33.45	8.1	24.8	2.38

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I12	04 Nov 2020	23	14.98	87.13	6.7	33.45	8.1	24.8	2.32
I12	04 Nov 2020	24	14.98	87.14	6.6	33.46	8.1	24.8	2.39
I12	04 Nov 2020	25	14.98	87.20	6.6	33.46	8.1	24.8	2.40
I12	04 Nov 2020	26	14.98	87.24	6.7	33.46	8.1	24.8	2.38
I12	04 Nov 2020	27	14.98	87.18	6.7	33.46	8.1	24.8	2.37
I12	04 Nov 2020	28	14.98	87.20	6.6	33.46	8.1	24.8	2.37
I13	04 Nov 2020	1	18.55	78.01	8.9	33.47	8.3	24.0	2.18
I13	04 Nov 2020	2	18.51	77.85	8.8	33.48	8.3	24.0	2.19
I13	04 Nov 2020	3	18.01	78.12	8.5	33.54	8.3	24.1	2.07
I13	04 Nov 2020	4	17.79	81.07	8.4	33.53	8.2	24.2	2.11
I13	04 Nov 2020	5	17.73	83.42	8.3	33.53	8.2	24.2	2.34
I13	04 Nov 2020	6	17.70	83.53	8.3	33.52	8.2	24.2	2.67
I13	04 Nov 2020	7	17.67	83.54	8.2	33.53	8.2	24.2	3.00
I13	04 Nov 2020	8	17.46	83.38	8.1	33.53	8.2	24.3	3.33
I13	04 Nov 2020	9	16.94	83.52	7.8	33.52	8.2	24.4	3.55
I13	04 Nov 2020	10	16.64	83.84	7.6	33.50	8.2	24.4	3.78
I13	04 Nov 2020	11	16.60	84.05	7.5	33.49	8.2	24.4	3.85
I13	04 Nov 2020	12	16.57	84.17	7.5	33.49	8.2	24.5	3.86
I13	04 Nov 2020	13	16.56	84.32	7.5	33.48	8.2	24.5	3.83
I13	04 Nov 2020	14	16.53	84.36	7.4	33.49	8.2	24.5	3.68
I13	04 Nov 2020	15	16.49	84.66	7.4	33.49	8.2	24.5	3.47
I13	04 Nov 2020	16	16.39	85.17	7.3	33.49	8.2	24.5	3.22
I13	04 Nov 2020	17	16.14	85.74	7.3	33.49	8.2	24.6	3.12
I13	04 Nov 2020	18	16.05	86.13	7.3	33.48	8.2	24.6	2.99
I13	04 Nov 2020	19	15.85	86.27	7.2	33.47	8.1	24.6	2.91
I13	04 Nov 2020	20	15.67	86.62	7.2	33.46	8.1	24.6	2.76
I13	04 Nov 2020	21	15.57	87.01	7.2	33.45	8.1	24.7	2.70
I13	04 Nov 2020	22	15.35	87.20	7.2	33.46	8.1	24.7	2.68
I13	04 Nov 2020	23	15.24	87.23	7.0	33.45	8.1	24.7	2.90
I13	04 Nov 2020	24	14.78	87.54	6.8	33.47	8.1	24.8	2.61
I13	04 Nov 2020	25	14.65	88.04	6.5	33.46	8.1	24.9	2.37
I13	04 Nov 2020	26	14.64	88.38	6.5	33.46	8.1	24.9	2.18
I13	04 Nov 2020	27	14.64	88.49	6.4	33.46	8.1	24.9	2.07
I13	04 Nov 2020	28	14.63	88.48	6.4	33.46	8.1	24.9	2.07
I13	04 Nov 2020	29	14.63	88.66	6.4	33.46	8.1	24.9	1.94
I13	04 Nov 2020	30	14.62	88.72	6.3	33.46	8.1	24.9	1.88
I13	04 Nov 2020	31	14.63	88.87	6.4	33.47	8.1	24.9	1.82
I13	04 Nov 2020	32	14.62	88.94	6.3	33.47	8.1	24.9	1.81
I13	04 Nov 2020	33	14.62	88.89	6.4	33.47	8.1	24.9	1.78
I13	04 Nov 2020	34	14.61	88.97	6.3	33.47	8.1	24.9	1.76
I13	04 Nov 2020	35	14.60	89.02	6.3	33.47	8.1	24.9	1.72
I13	04 Nov 2020	36	14.58	89.09	6.3	33.47	8.1	24.9	1.54
I13	04 Nov 2020	37	14.58	89.19	6.2	33.47	8.0	24.9	1.44
I13	04 Nov 2020	38	14.55	89.29	6.2	33.47	8.0	24.9	1.39
I14	04 Nov 2020	1	17.99	76.49	8.6	33.45	8.2	24.1	1.91
I14	04 Nov 2020	2	17.94	73.34	8.6	33.47	8.2	24.1	2.15
I14	04 Nov 2020	3	17.92	78.41	8.6	33.47	8.2	24.1	2.56
I14	04 Nov 2020	4	17.91	78.51	8.6	33.47	8.2	24.1	2.89
I14	04 Nov 2020	5	17.82	78.55	8.5	33.47	8.2	24.1	3.13
I14	04 Nov 2020	6	17.43	79.54	8.3	33.48	8.2	24.2	2.86
I14	04 Nov 2020	7	17.12	82.38	8.2	33.48	8.2	24.3	2.60
I14	04 Nov 2020	8	16.71	83.08	7.9	33.48	8.2	24.4	2.53
I14	04 Nov 2020	9	16.24	83.41	7.7	33.47	8.2	24.5	2.61
I14	04 Nov 2020	10	16.17	84.43	7.5	33.46	8.2	24.5	2.65
I14	04 Nov 2020	11	15.77	84.74	7.3	33.46	8.2	24.6	2.74
I14	04 Nov 2020	12	15.56	85.53	7.2	33.43	8.1	24.6	2.73
I14	04 Nov 2020	13	15.29	86.13	7.1	33.41	8.1	24.7	2.66
I14	04 Nov 2020	14	15.24	86.72	7.0	33.44	8.1	24.7	2.60
I14	04 Nov 2020	15	15.21	86.68	7.0	33.44	8.1	24.7	2.61

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I14	04 Nov 2020	16	15.18	86.86	6.9	33.45	8.1	24.7	2.50
I14	04 Nov 2020	17	15.18	87.14	6.8	33.45	8.1	24.7	2.44
I14	04 Nov 2020	18	15.15	87.19	6.8	33.45	8.1	24.7	2.34
I14	04 Nov 2020	19	15.14	87.30	6.8	33.45	8.1	24.7	2.36
I14	04 Nov 2020	20	15.10	87.36	6.8	33.46	8.1	24.8	2.32
I14	04 Nov 2020	21	15.06	87.44	6.7	33.46	8.1	24.8	2.28
I14	04 Nov 2020	22	15.06	87.58	6.7	33.46	8.1	24.8	2.26
I14	04 Nov 2020	23	15.03	87.65	6.7	33.46	8.1	24.8	2.15
I14	04 Nov 2020	24	15.03	87.79	6.6	33.46	8.1	24.8	2.07
I14	04 Nov 2020	25	15.02	87.70	6.6	33.46	8.1	24.8	2.05
I14	04 Nov 2020	26	15.02	87.76	6.6	33.46	8.1	24.8	1.98
I14	04 Nov 2020	27	15.02	87.75	6.6	33.46	8.1	24.8	1.91
I14	04 Nov 2020	28	15.00	87.72	6.5	33.46	8.1	24.8	1.86
I15	04 Nov 2020	1	18.09	68.61	8.6	33.46	8.3	24.1	2.12
I15	04 Nov 2020	2	18.05	76.19	8.7	33.46	8.3	24.1	2.23
I15	04 Nov 2020	3	17.99	77.71	8.6	33.47	8.3	24.1	2.51
I15	04 Nov 2020	4	17.91	78.31	8.6	33.47	8.2	24.1	2.83
I15	04 Nov 2020	5	17.51	79.30	8.4	33.48	8.2	24.2	2.90
I15	04 Nov 2020	6	17.26	82.43	8.3	33.48	8.2	24.3	2.83
I15	04 Nov 2020	7	17.09	82.72	8.2	33.46	8.2	24.3	2.89
I15	04 Nov 2020	8	16.94	82.88	8.0	33.44	8.2	24.3	2.94
I15	04 Nov 2020	9	16.63	83.27	7.8	33.40	8.2	24.4	2.89
I15	04 Nov 2020	10	16.36	83.66	7.7	33.38	8.2	24.4	2.86
I15	04 Nov 2020	11	16.32	84.23	7.6	33.37	8.2	24.4	2.72
I15	04 Nov 2020	12	15.98	84.59	7.4	33.33	8.2	24.5	2.70
I15	04 Nov 2020	13	15.65	85.21	7.2	33.34	8.1	24.6	2.61
I15	04 Nov 2020	14	15.30	85.98	7.1	33.34	8.1	24.6	2.53
I15	04 Nov 2020	15	15.24	86.63	7.1	33.38	8.1	24.7	2.61
I15	04 Nov 2020	16	15.21	87.02	7.2	33.44	8.1	24.7	2.69
I15	04 Nov 2020	17	15.18	86.97	7.2	33.44	8.1	24.7	2.81
I15	04 Nov 2020	18	15.05	86.77	7.0	33.45	8.1	24.8	2.95
I15	04 Nov 2020	19	14.96	86.57	6.8	33.46	8.1	24.8	2.97
I15	04 Nov 2020	20	14.94	87.17	6.7	33.46	8.1	24.8	2.77
I15	04 Nov 2020	21	14.94	87.22	6.7	33.46	8.1	24.8	2.75
I15	04 Nov 2020	22	14.91	87.45	6.7	33.46	8.1	24.8	2.66
I15	04 Nov 2020	23	14.90	87.47	6.6	33.46	8.1	24.8	2.60
I15	04 Nov 2020	24	14.89	87.55	6.6	33.46	8.1	24.8	2.55
I15	04 Nov 2020	25	14.89	87.65	6.6	33.46	8.1	24.8	2.43
I15	04 Nov 2020	26	14.88	87.70	6.6	33.46	8.1	24.8	2.36
I15	04 Nov 2020	27	14.88	88.01	6.6	33.46	8.1	24.8	2.25
I15	04 Nov 2020	28	14.88	88.15	6.5	33.46	8.1	24.8	2.13
I15	04 Nov 2020	29	14.88	88.12	6.5	33.46	8.1	24.8	2.09
I15	04 Nov 2020	30	14.88	88.07	6.5	33.46	8.1	24.8	2.15
I15	04 Nov 2020	31	14.88	88.07	6.5	33.46	8.1	24.8	2.11
I16	04 Nov 2020	1	17.95	78.54	8.5	33.45	8.2	24.1	1.98
I16	04 Nov 2020	2	17.95	78.15	8.5	33.45	8.2	24.1	2.38
I16	04 Nov 2020	3	17.73	77.15	8.3	33.47	8.2	24.2	2.46
I16	04 Nov 2020	4	17.06	77.73	7.9	33.49	8.2	24.3	2.23
I16	04 Nov 2020	5	16.08	80.93	7.5	33.43	8.2	24.5	2.05
I16	04 Nov 2020	6	15.53	83.32	7.2	33.37	8.2	24.6	1.97
I16	04 Nov 2020	7	15.20	85.44	7.0	33.35	8.1	24.7	2.02
I16	04 Nov 2020	8	15.13	86.57	6.8	33.36	8.1	24.7	1.98
I16	04 Nov 2020	9	15.06	87.01	6.8	33.40	8.1	24.7	2.16
I16	04 Nov 2020	10	15.06	87.14	6.8	33.41	8.1	24.7	2.13
I16	04 Nov 2020	11	15.05	87.30	6.7	33.43	8.1	24.8	2.17
I16	04 Nov 2020	12	15.06	87.33	6.7	33.42	8.1	24.7	2.21
I16	04 Nov 2020	13	15.06	87.38	6.8	33.44	8.1	24.8	2.20
I16	04 Nov 2020	14	15.06	87.32	6.7	33.44	8.1	24.8	2.32
I16	04 Nov 2020	15	15.05	87.38	6.7	33.45	8.1	24.8	2.27

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I16	04 Nov 2020	16	15.05	87.41	6.7	33.45	8.1	24.8	2.25
I16	04 Nov 2020	17	15.05	87.40	6.7	33.45	8.1	24.8	2.20
I16	04 Nov 2020	18	15.04	87.44	6.7	33.45	8.1	24.8	2.20
I16	04 Nov 2020	19	15.04	87.43	6.7	33.45	8.1	24.8	2.23
I16	04 Nov 2020	20	15.04	87.46	6.7	33.45	8.1	24.8	2.16
I16	04 Nov 2020	21	15.03	87.51	6.7	33.45	8.1	24.8	2.21
I16	04 Nov 2020	22	15.02	87.47	6.6	33.45	8.1	24.8	2.15
I16	04 Nov 2020	23	15.02	87.50	6.6	33.45	8.1	24.8	2.16
I16	04 Nov 2020	24	15.02	87.54	6.7	33.45	8.1	24.8	2.12
I16	04 Nov 2020	25	15.02	87.54	6.7	33.46	8.1	24.8	2.17
I16	04 Nov 2020	26	15.02	87.61	6.7	33.46	8.1	24.8	2.15
I16	04 Nov 2020	27	15.02	87.46	6.6	33.46	8.1	24.8	2.12
I16	04 Nov 2020	28	15.03	87.11	6.6	33.46	8.1	24.8	1.99
I17	04 Nov 2020	1	17.89	78.11	8.5	33.45	8.2	24.1	2.31
I17	04 Nov 2020	2	17.87	77.90	8.5	33.45	8.2	24.1	2.58
I17	04 Nov 2020	3	17.70	77.77	8.4	33.46	8.2	24.2	2.78
I17	04 Nov 2020	4	17.46	77.95	8.2	33.47	8.2	24.2	2.78
I17	04 Nov 2020	5	17.03	79.50	8.0	33.48	8.2	24.3	2.69
I17	04 Nov 2020	6	16.46	81.18	7.8	33.48	8.2	24.5	2.65
I17	04 Nov 2020	7	16.19	82.59	7.6	33.46	8.2	24.5	2.59
I17	04 Nov 2020	8	16.00	84.26	7.5	33.46	8.2	24.6	2.57
I17	04 Nov 2020	9	15.90	84.85	7.5	33.45	8.1	24.6	2.57
I17	04 Nov 2020	10	15.83	85.10	7.4	33.45	8.1	24.6	2.67
I17	04 Nov 2020	11	15.80	85.36	7.3	33.45	8.1	24.6	2.68
I17	04 Nov 2020	12	15.69	85.70	7.3	33.45	8.1	24.6	2.71
I17	04 Nov 2020	13	15.61	85.73	7.2	33.45	8.1	24.6	2.78
I17	04 Nov 2020	14	15.39	86.02	7.1	33.45	8.1	24.7	2.86
I17	04 Nov 2020	15	15.26	86.18	7.1	33.45	8.1	24.7	2.85
I17	04 Nov 2020	16	15.24	86.51	7.0	33.45	8.1	24.7	2.77
I17	04 Nov 2020	17	15.22	86.70	6.8	33.45	8.1	24.7	2.67
I17	04 Nov 2020	18	15.20	86.75	6.9	33.45	8.1	24.7	2.66
I17	04 Nov 2020	19	15.19	86.89	6.8	33.45	8.1	24.7	2.65
I17	04 Nov 2020	20	15.19	86.85	6.8	33.45	8.1	24.7	2.55
I17	04 Nov 2020	21	15.18	86.85	6.8	33.45	8.1	24.7	2.54
I17	04 Nov 2020	22	15.17	86.94	6.8	33.45	8.1	24.7	2.47
I17	04 Nov 2020	23	15.17	86.90	6.8	33.45	8.1	24.7	2.51
I17	04 Nov 2020	24	15.17	86.87	6.8	33.45	8.1	24.7	2.48
I17	04 Nov 2020	25	15.17	86.91	6.8	33.45	8.1	24.7	2.39
I18	04 Nov 2020	1	17.58	80.53	8.3	33.46	8.2	24.2	1.78
I18	04 Nov 2020	2	17.53	80.41	8.3	33.46	8.2	24.2	2.02
I18	04 Nov 2020	3	17.42	80.10	8.2	33.46	8.2	24.2	2.48
I18	04 Nov 2020	4	17.35	79.59	8.1	33.47	8.2	24.3	2.76
I18	04 Nov 2020	5	17.04	79.74	7.9	33.49	8.2	24.3	2.69
I18	04 Nov 2020	6	16.40	81.59	7.8	33.48	8.2	24.5	2.51
I18	04 Nov 2020	7	16.05	83.84	7.6	33.47	8.2	24.6	2.53
I18	04 Nov 2020	8	15.95	84.60	7.4	33.46	8.2	24.6	2.43
I18	04 Nov 2020	9	15.94	85.05	7.3	33.46	8.1	24.6	2.44
I18	04 Nov 2020	10	15.94	85.29	7.2	33.46	8.1	24.6	2.42
I18	04 Nov 2020	11	15.94	85.35	7.2	33.46	8.1	24.6	2.40
I18	04 Nov 2020	12	15.94	85.44	7.2	33.46	8.1	24.6	2.37
I18	04 Nov 2020	13	15.93	85.47	7.2	33.46	8.1	24.6	2.33
I18	04 Nov 2020	14	15.93	85.47	7.1	33.46	8.1	24.6	2.26
I18	04 Nov 2020	15	15.93	85.47	7.1	33.46	8.1	24.6	2.21
I18	04 Nov 2020	16	15.92	85.54	7.1	33.46	8.1	24.6	2.24
I18	04 Nov 2020	17	15.92	85.54	7.1	33.46	8.1	24.6	2.11
I18	04 Nov 2020	18	15.89	85.50	7.0	33.46	8.1	24.6	2.07
I18	04 Nov 2020	19	15.87	85.41	7.0	33.46	8.1	24.6	1.98
I2	03 Nov 2020	1	18.47	84.36	8.4	33.52	8.2	24.0	1.40

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I2	03 Nov 2020	2	18.49	83.71	8.3	33.52	8.2	24.0	1.47
I2	03 Nov 2020	3	18.08	84.18	8.4	33.53	8.2	24.1	1.92
I2	03 Nov 2020	4	17.74	83.88	8.6	33.51	8.2	24.2	2.32
I2	03 Nov 2020	5	17.67	83.39	8.7	33.51	8.2	24.2	2.50
I2	03 Nov 2020	6	17.59	83.06	8.6	33.50	8.2	24.2	2.64
I2	03 Nov 2020	7	17.49	83.01	8.5	33.50	8.2	24.2	2.81
I2	03 Nov 2020	8	17.42	82.65	8.4	33.50	8.2	24.3	3.00
I2	03 Nov 2020	9	17.36	82.43	8.3	33.50	8.2	24.3	3.07
I2	03 Nov 2020	10	17.28	82.67	8.2	33.50	8.2	24.3	3.09
I2	03 Nov 2020	11	17.17	83.00	8.1	33.50	8.2	24.3	3.06
I2	03 Nov 2020	12	17.09	83.59	8.1	33.50	8.2	24.3	3.00
I2	03 Nov 2020	13	17.06	83.93	8.0	33.50	8.2	24.3	3.06
I2	03 Nov 2020	14	16.99	83.91	7.9	33.50	8.2	24.4	3.20
I2	03 Nov 2020	15	16.97	84.03	7.9	33.50	8.2	24.4	3.39
I2	03 Nov 2020	16	16.92	83.81	7.8	33.50	8.2	24.4	3.53
I2	03 Nov 2020	17	16.90	83.96	7.7	33.50	8.2	24.4	3.72
I2	03 Nov 2020	18	16.76	83.85	7.6	33.50	8.2	24.4	3.70
I2	03 Nov 2020	19	16.57	84.08	7.5	33.49	8.2	24.5	3.55
I2	03 Nov 2020	20	16.47	84.78	7.5	33.49	8.2	24.5	3.44
I2	03 Nov 2020	21	16.26	85.05	7.4	33.49	8.1	24.5	3.43
I2	03 Nov 2020	22	16.15	85.24	7.4	33.48	8.1	24.5	3.42
I2	03 Nov 2020	23	16.11	85.44	7.4	33.48	8.1	24.6	3.28
I2	03 Nov 2020	24	15.93	85.45	7.2	33.48	8.1	24.6	3.24
I2	03 Nov 2020	25	15.31	85.32	7.0	33.48	8.1	24.7	3.24
I2	03 Nov 2020	26	14.77	85.64	6.7	33.48	8.1	24.8	3.27
I2	03 Nov 2020	27	14.49	86.05	6.5	33.47	8.1	24.9	3.00
I2	03 Nov 2020	28	14.48	86.65	6.4	33.46	8.1	24.9	2.81
I2	03 Nov 2020	29	14.47	87.40	6.4	33.46	8.1	24.9	2.60
I2	03 Nov 2020	30	14.47	88.04	6.4	33.46	8.1	24.9	2.49
I2	03 Nov 2020	31	14.47	88.08	6.3	33.47	8.0	24.9	2.49
I2	03 Nov 2020	32	14.46	88.12	6.3	33.47	8.0	24.9	2.34
I20	04 Nov 2020	1	18.94	88.98	8.0	33.62	8.2	24.0	0.84
I20	04 Nov 2020	2	18.91	89.02	8.0	33.62	8.2	24.0	0.94
I20	04 Nov 2020	3	18.71	88.72	8.0	33.61	8.2	24.0	1.18
I20	04 Nov 2020	4	18.56	87.90	8.1	33.60	8.2	24.1	1.50
I20	04 Nov 2020	5	18.30	87.06	8.2	33.58	8.2	24.1	1.94
I20	04 Nov 2020	6	18.14	85.93	8.3	33.56	8.2	24.1	2.26
I20	04 Nov 2020	7	18.07	84.90	8.2	33.55	8.2	24.1	2.48
I20	04 Nov 2020	8	17.99	84.55	8.2	33.55	8.2	24.2	2.72
I20	04 Nov 2020	9	17.90	84.33	8.2	33.54	8.2	24.2	2.86
I20	04 Nov 2020	10	17.76	84.27	8.2	33.54	8.2	24.2	2.98
I20	04 Nov 2020	11	17.56	84.16	8.0	33.53	8.2	24.3	3.08
I20	04 Nov 2020	12	17.14	84.42	7.8	33.52	8.2	24.3	3.13
I20	04 Nov 2020	13	16.74	84.71	7.7	33.52	8.2	24.4	3.23
I20	04 Nov 2020	14	16.54	84.90	7.5	33.50	8.2	24.5	3.44
I20	04 Nov 2020	15	15.93	85.30	7.2	33.51	8.2	24.6	3.64
I20	04 Nov 2020	16	15.36	85.46	7.0	33.50	8.1	24.7	3.47
I20	04 Nov 2020	17	15.22	86.61	6.9	33.48	8.1	24.8	3.08
I20	04 Nov 2020	18	15.16	87.47	6.8	33.48	8.1	24.8	2.89
I20	04 Nov 2020	19	15.08	87.89	6.8	33.48	8.1	24.8	2.69
I20	04 Nov 2020	20	15.07	88.07	6.8	33.48	8.1	24.8	2.56
I20	04 Nov 2020	21	15.05	88.25	6.8	33.48	8.1	24.8	2.41
I20	04 Nov 2020	22	15.02	88.48	6.7	33.48	8.1	24.8	2.39
I20	04 Nov 2020	23	14.99	88.50	6.7	33.48	8.1	24.8	2.38
I20	04 Nov 2020	24	14.99	88.43	6.7	33.48	8.1	24.8	2.37
I20	04 Nov 2020	25	14.98	88.48	6.7	33.48	8.1	24.8	2.34
I20	04 Nov 2020	26	14.97	88.46	6.7	33.48	8.1	24.8	2.36
I20	04 Nov 2020	27	14.92	88.46	6.7	33.48	8.1	24.8	2.35
I20	04 Nov 2020	28	14.85	88.42	6.7	33.47	8.1	24.8	2.43
I20	04 Nov 2020	29	14.57	88.54	6.7	33.48	8.1	24.9	2.31

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I20	04 Nov 2020	30	14.46	88.99	6.6	33.48	8.1	24.9	2.10
I20	04 Nov 2020	31	14.40	89.40	6.5	33.48	8.1	24.9	2.05
I20	04 Nov 2020	32	14.35	89.61	6.5	33.48	8.1	24.9	1.94
I20	04 Nov 2020	33	14.28	89.77	6.5	33.48	8.1	25.0	1.89
I20	04 Nov 2020	34	14.28	89.83	6.5	33.48	8.1	25.0	1.90
I20	04 Nov 2020	35	14.23	89.82	6.5	33.48	8.1	25.0	1.86
I20	04 Nov 2020	36	14.19	90.15	6.5	33.48	8.1	25.0	1.81
I20	04 Nov 2020	37	13.99	90.69	6.4	33.49	8.1	25.0	1.51
I20	04 Nov 2020	38	13.85	91.19	6.3	33.49	8.0	25.1	1.24
I20	04 Nov 2020	39	13.79	91.70	6.3	33.50	8.0	25.1	1.09
I20	04 Nov 2020	40	13.64	91.85	6.3	33.50	8.0	25.1	0.96
I20	04 Nov 2020	41	13.48	92.16	6.2	33.51	8.0	25.1	0.85
I20	04 Nov 2020	42	13.35	92.42	6.2	33.51	8.0	25.2	0.72
I20	04 Nov 2020	43	13.33	92.65	6.2	33.51	8.0	25.2	0.69
I20	04 Nov 2020	44	13.31	92.74	6.2	33.52	8.0	25.2	0.67
I20	04 Nov 2020	45	13.27	92.77	6.1	33.52	8.0	25.2	0.64
I20	04 Nov 2020	46	13.16	92.83	6.0	33.53	8.0	25.2	0.58
I20	04 Nov 2020	47	13.12	92.85	6.0	33.53	8.0	25.2	0.56
I20	04 Nov 2020	48	13.10	92.90	6.0	33.54	8.0	25.2	0.53
I20	04 Nov 2020	49	13.10	92.88	5.9	33.54	8.0	25.2	0.52
I20	04 Nov 2020	50	13.10	92.86	5.9	33.54	8.0	25.2	0.51
I20	04 Nov 2020	51	13.09	92.82	5.9	33.54	8.0	25.2	0.49
I20	04 Nov 2020	52	13.07	92.86	5.8	33.54	8.0	25.3	0.49
I20	04 Nov 2020	53	13.08	92.83	5.8	33.54	8.0	25.2	0.48
I20	04 Nov 2020	54	13.07	92.66	5.7	33.55	8.0	25.3	0.46
I20	04 Nov 2020	55	13.05	92.54	5.6	33.55	8.0	25.3	0.46
I21	04 Nov 2020	1	18.76	87.65	8.0	33.61	8.2	24.0	0.92
I21	04 Nov 2020	2	18.75	87.76	8.0	33.61	8.2	24.0	0.94
I21	04 Nov 2020	3	18.73	87.74	8.0	33.61	8.2	24.0	1.08
I21	04 Nov 2020	4	18.66	87.71	8.1	33.60	8.2	24.0	1.35
I21	04 Nov 2020	5	18.52	87.27	8.1	33.60	8.2	24.1	1.68
I21	04 Nov 2020	6	18.20	86.79	8.2	33.57	8.2	24.1	1.89
I21	04 Nov 2020	7	18.12	86.14	8.3	33.56	8.2	24.1	2.10
I21	04 Nov 2020	8	18.05	85.77	8.2	33.56	8.2	24.2	2.26
I21	04 Nov 2020	9	17.87	85.54	8.2	33.55	8.2	24.2	2.51
I21	04 Nov 2020	10	17.73	85.11	8.2	33.54	8.2	24.2	2.86
I21	04 Nov 2020	11	17.39	84.30	8.1	33.53	8.2	24.3	3.35
I21	04 Nov 2020	12	17.01	83.81	7.8	33.52	8.2	24.4	3.71
I21	04 Nov 2020	13	16.61	83.69	7.7	33.51	8.2	24.5	3.77
I21	04 Nov 2020	14	16.47	84.28	7.6	33.49	8.2	24.5	4.02
I21	04 Nov 2020	15	16.44	84.89	7.6	33.49	8.2	24.5	3.75
I21	04 Nov 2020	16	16.42	84.93	7.6	33.49	8.2	24.5	3.64
I21	04 Nov 2020	17	16.40	84.95	7.5	33.49	8.2	24.5	3.60
I21	04 Nov 2020	18	16.34	85.30	7.5	33.49	8.2	24.5	3.47
I21	04 Nov 2020	19	16.24	85.65	7.4	33.49	8.2	24.5	3.42
I21	04 Nov 2020	20	16.16	85.83	7.4	33.49	8.2	24.6	3.34
I21	04 Nov 2020	21	15.99	86.04	7.3	33.49	8.2	24.6	3.29
I21	04 Nov 2020	22	15.89	86.25	7.3	33.49	8.1	24.6	3.27
I21	04 Nov 2020	23	15.66	86.42	7.1	33.49	8.1	24.7	3.17
I21	04 Nov 2020	24	15.42	86.69	6.9	33.48	8.1	24.7	2.89
I21	04 Nov 2020	25	14.98	87.31	6.6	33.49	8.1	24.8	2.71
I21	04 Nov 2020	26	14.72	87.79	6.5	33.48	8.1	24.9	2.67
I21	04 Nov 2020	27	14.64	87.97	6.4	33.48	8.1	24.9	2.53
I21	04 Nov 2020	28	14.50	88.17	6.4	33.48	8.1	24.9	2.29
I21	04 Nov 2020	29	14.37	88.57	6.3	33.48	8.1	24.9	2.05
I21	04 Nov 2020	30	14.33	88.95	6.2	33.47	8.1	24.9	1.82
I21	04 Nov 2020	31	14.30	89.49	6.2	33.48	8.0	24.9	1.60
I21	04 Nov 2020	32	14.27	89.78	6.2	33.48	8.0	25.0	1.46
I21	04 Nov 2020	33	14.26	90.03	6.1	33.48	8.0	25.0	1.33
I21	04 Nov 2020	34	14.26	90.21	6.1	33.48	8.0	25.0	1.25

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I21	04 Nov 2020	35	14.26	90.29	6.1	33.48	8.0	25.0	1.14
I21	04 Nov 2020	36	14.25	90.37	6.1	33.48	8.0	25.0	1.07
I21	04 Nov 2020	37	14.25	90.51	6.1	33.48	8.0	25.0	1.17
I21	04 Nov 2020	38	14.25	90.56	6.1	33.48	8.0	25.0	1.13
I21	04 Nov 2020	39	14.24	90.60	6.0	33.49	8.0	25.0	1.05
I21	04 Nov 2020	40	14.19	90.66	6.0	33.49	8.0	25.0	1.00
I21	04 Nov 2020	41	14.18	90.76	6.0	33.49	8.0	25.0	0.96
I22	04 Nov 2020	1	18.02	79.34	8.6	33.44	8.2	24.1	2.22
I22	04 Nov 2020	2	17.99	79.36	8.6	33.44	8.2	24.1	2.71
I22	04 Nov 2020	3	17.87	78.78	8.5	33.45	8.2	24.1	2.88
I22	04 Nov 2020	4	17.58	79.51	8.2	33.48	8.2	24.2	2.60
I22	04 Nov 2020	5	16.58	81.73	7.8	33.44	8.2	24.4	2.43
I22	04 Nov 2020	6	15.94	83.67	7.4	33.34	8.2	24.5	2.39
I22	04 Nov 2020	7	15.49	84.81	7.1	33.28	8.1	24.5	2.35
I22	04 Nov 2020	8	15.40	85.77	7.0	33.29	8.1	24.6	2.35
I22	04 Nov 2020	9	15.49	86.24	7.0	33.35	8.1	24.6	2.34
I22	04 Nov 2020	10	15.48	86.51	7.0	33.44	8.1	24.7	2.57
I22	04 Nov 2020	11	15.35	86.45	7.0	33.44	8.1	24.7	2.64
I22	04 Nov 2020	12	15.25	86.59	6.9	33.45	8.1	24.7	2.67
I22	04 Nov 2020	13	15.21	86.66	6.9	33.44	8.1	24.7	2.51
I22	04 Nov 2020	14	15.20	86.88	6.8	33.44	8.1	24.7	2.28
I22	04 Nov 2020	15	15.21	87.22	6.7	33.45	8.1	24.7	2.14
I22	04 Nov 2020	16	15.21	87.31	6.7	33.45	8.1	24.7	2.09
I22	04 Nov 2020	17	15.21	87.34	6.7	33.45	8.1	24.7	2.03
I22	04 Nov 2020	18	15.22	87.42	6.7	33.45	8.1	24.7	2.03
I22	04 Nov 2020	19	15.22	87.33	6.7	33.45	8.1	24.7	2.02
I22	04 Nov 2020	20	15.22	87.56	6.7	33.45	8.1	24.7	1.99
I22	04 Nov 2020	21	15.22	87.54	6.7	33.46	8.1	24.7	1.96
I22	04 Nov 2020	22	15.21	87.53	6.7	33.46	8.1	24.7	1.95
I22	04 Nov 2020	23	15.20	87.51	6.6	33.46	8.1	24.7	1.91
I22	04 Nov 2020	24	15.18	87.66	6.6	33.46	8.1	24.7	1.89
I22	04 Nov 2020	25	15.15	87.72	6.6	33.46	8.1	24.8	1.83
I22	04 Nov 2020	26	15.12	87.80	6.6	33.46	8.1	24.8	1.72
I22	04 Nov 2020	27	15.11	87.85	6.6	33.46	8.1	24.8	1.70
I22	04 Nov 2020	28	15.11	87.87	6.6	33.46	8.1	24.8	1.66
I23	04 Nov 2020	1	17.72	79.64	8.3	33.45	8.2	24.2	2.02
I23	04 Nov 2020	2	17.72	79.37	8.3	33.45	8.2	24.2	2.10
I23	04 Nov 2020	3	17.63	77.55	8.3	33.46	8.2	24.2	2.72
I23	04 Nov 2020	4	17.46	76.33	8.2	33.46	8.2	24.2	3.18
I23	04 Nov 2020	5	17.39	78.10	8.1	33.46	8.2	24.2	2.95
I23	04 Nov 2020	6	16.76	80.48	7.9	33.49	8.2	24.4	2.70
I23	04 Nov 2020	7	16.14	82.66	7.6	33.47	8.2	24.5	2.53
I23	04 Nov 2020	8	16.09	84.40	7.3	33.46	8.2	24.5	2.43
I23	04 Nov 2020	9	16.08	85.22	7.3	33.46	8.1	24.5	2.35
I23	04 Nov 2020	10	16.05	85.34	7.3	33.46	8.1	24.6	2.49
I23	04 Nov 2020	11	16.00	85.37	7.3	33.46	8.1	24.6	2.51
I23	04 Nov 2020	12	15.97	85.44	7.2	33.46	8.1	24.6	2.36
I23	04 Nov 2020	13	15.93	85.69	7.1	33.46	8.1	24.6	2.38
I23	04 Nov 2020	14	15.91	85.82	7.1	33.46	8.1	24.6	2.38
I23	04 Nov 2020	15	15.90	86.03	7.1	33.46	8.1	24.6	2.31
I23	04 Nov 2020	16	15.90	85.78	7.1	33.46	8.1	24.6	2.27
I23	04 Nov 2020	17	15.89	85.87	7.1	33.46	8.1	24.6	2.24
I23	04 Nov 2020	18	15.88	85.94	7.1	33.46	8.1	24.6	2.18
I23	04 Nov 2020	19	15.87	85.81	7.1	33.46	8.1	24.6	2.20
I23	04 Nov 2020	20	15.87	85.72	7.0	33.46	8.1	24.6	2.10
I23	04 Nov 2020	21	15.86	85.67	7.0	33.46	8.1	24.6	2.04
I27	04 Nov 2020	1	18.37	81.54	8.9	33.47	8.3	24.0	2.01
I27	04 Nov 2020	2	18.37	79.22	8.9	33.48	8.3	24.0	2.10

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I27	04 Nov 2020	3	18.30	79.61	8.9	33.48	8.3	24.0	2.47
I27	04 Nov 2020	4	18.07	80.71	8.7	33.51	8.3	24.1	2.94
I27	04 Nov 2020	5	17.55	82.50	8.4	33.52	8.2	24.2	2.77
I27	04 Nov 2020	6	17.46	83.67	8.2	33.51	8.2	24.3	2.74
I27	04 Nov 2020	7	17.28	83.71	8.1	33.50	8.2	24.3	2.90
I27	04 Nov 2020	8	17.15	83.54	7.8	33.50	8.2	24.3	3.10
I27	04 Nov 2020	9	16.45	83.45	7.5	33.43	8.2	24.4	3.22
I27	04 Nov 2020	10	16.11	83.54	7.3	33.36	8.2	24.5	3.06
I27	04 Nov 2020	11	15.92	84.35	7.1	33.34	8.1	24.5	2.92
I27	04 Nov 2020	12	15.67	85.53	7.1	33.31	8.1	24.5	2.80
I27	04 Nov 2020	13	15.62	86.16	7.1	33.33	8.1	24.5	2.65
I27	04 Nov 2020	14	15.52	86.46	7.0	33.34	8.1	24.6	2.63
I27	04 Nov 2020	15	15.50	86.70	7.0	33.39	8.1	24.6	2.55
I27	04 Nov 2020	16	15.49	86.95	7.0	33.45	8.1	24.7	2.51
I27	04 Nov 2020	17	15.34	86.63	7.0	33.45	8.1	24.7	2.48
I27	04 Nov 2020	18	15.18	86.96	6.8	33.46	8.1	24.7	2.33
I27	04 Nov 2020	19	15.13	87.47	6.7	33.46	8.1	24.8	2.20
I27	04 Nov 2020	20	15.09	87.78	6.6	33.46	8.1	24.8	1.87
I27	04 Nov 2020	21	15.06	88.17	6.5	33.46	8.1	24.8	1.65
I27	04 Nov 2020	22	15.04	88.41	6.4	33.47	8.1	24.8	1.61
I27	04 Nov 2020	23	15.03	88.63	6.4	33.47	8.1	24.8	1.55
I27	04 Nov 2020	24	15.01	88.58	6.3	33.47	8.1	24.8	1.50
I27	04 Nov 2020	25	14.99	88.59	6.3	33.47	8.1	24.8	1.43
I27	04 Nov 2020	26	14.98	88.37	6.3	33.47	8.1	24.8	1.45
I27	04 Nov 2020	27	14.98	88.14	6.3	33.47	8.1	24.8	1.41
I27	04 Nov 2020	28	14.98	87.98	6.2	33.47	8.0	24.8	1.40
I28	05 Nov 2020	1	18.68	87.31	8.0	33.60	8.2	24.0	1.55
I28	05 Nov 2020	2	18.68	87.17	8.0	33.60	8.2	24.0	1.63
I28	05 Nov 2020	3	18.68	87.16	8.0	33.60	8.2	24.0	1.67
I28	05 Nov 2020	4	18.68	87.15	8.0	33.60	8.2	24.0	1.77
I28	05 Nov 2020	5	18.68	87.09	8.0	33.60	8.2	24.0	1.81
I28	05 Nov 2020	6	18.67	87.39	7.9	33.60	8.2	24.0	1.86
I28	05 Nov 2020	7	18.65	87.34	8.0	33.60	8.2	24.0	2.02
I28	05 Nov 2020	8	18.63	87.16	8.0	33.59	8.2	24.0	2.30
I28	05 Nov 2020	9	18.53	86.60	7.9	33.59	8.2	24.1	2.31
I28	05 Nov 2020	10	18.07	86.28	8.0	33.57	8.2	24.2	2.28
I28	05 Nov 2020	11	17.92	86.40	8.1	33.55	8.2	24.2	2.28
I28	05 Nov 2020	12	17.80	86.31	8.0	33.54	8.2	24.2	2.21
I28	05 Nov 2020	13	17.37	86.31	8.0	33.52	8.2	24.3	2.25
I28	05 Nov 2020	14	17.42	86.39	7.8	33.52	8.2	24.3	2.31
I28	05 Nov 2020	15	16.70	86.58	7.7	33.51	8.2	24.4	2.41
I28	05 Nov 2020	16	16.47	86.60	7.5	33.49	8.2	24.5	2.50
I28	05 Nov 2020	17	16.15	86.65	7.4	33.49	8.2	24.6	2.68
I28	05 Nov 2020	18	16.03	86.74	7.4	33.48	8.1	24.6	2.75
I28	05 Nov 2020	19	16.02	86.71	7.3	33.48	8.1	24.6	2.78
I28	05 Nov 2020	20	15.95	86.79	7.3	33.48	8.1	24.6	2.87
I28	05 Nov 2020	21	15.76	86.75	7.2	33.48	8.1	24.6	2.89
I28	05 Nov 2020	22	15.42	86.83	7.0	33.48	8.1	24.7	3.00
I28	05 Nov 2020	23	15.23	86.85	6.9	33.48	8.1	24.7	3.20
I28	05 Nov 2020	24	15.15	87.03	6.8	33.48	8.1	24.8	3.16
I28	05 Nov 2020	25	15.11	87.13	6.8	33.48	8.1	24.8	3.16
I28	05 Nov 2020	26	15.07	87.21	6.8	33.48	8.1	24.8	3.11
I28	05 Nov 2020	27	14.98	87.50	6.7	33.48	8.1	24.8	2.87
I28	05 Nov 2020	28	14.83	88.00	6.6	33.48	8.1	24.8	2.60
I28	05 Nov 2020	29	14.57	88.67	6.6	33.48	8.1	24.9	2.23
I28	05 Nov 2020	30	14.53	89.54	6.5	33.48	8.1	24.9	2.11
I28	05 Nov 2020	31	14.42	89.67	6.4	33.48	8.1	24.9	1.81
I28	05 Nov 2020	32	14.22	90.15	6.3	33.49	8.0	25.0	1.60
I28	05 Nov 2020	33	14.24	90.91	6.2	33.48	8.0	25.0	1.39
I28	05 Nov 2020	34	14.01	91.34	6.2	33.50	8.0	25.0	1.15

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I28	05 Nov 2020	35	13.94	91.75	6.2	33.49	8.0	25.0	0.95
I28	05 Nov 2020	36	13.88	91.87	6.2	33.50	8.0	25.1	0.92
I28	05 Nov 2020	37	13.81	91.86	6.2	33.50	8.0	25.1	0.97
I28	05 Nov 2020	38	13.77	91.80	6.2	33.49	8.0	25.1	1.12
I28	05 Nov 2020	39	13.75	91.77	6.2	33.49	8.0	25.1	1.09
I28	05 Nov 2020	40	13.70	91.81	6.2	33.50	8.0	25.1	1.08
I28	05 Nov 2020	41	13.66	92.00	6.2	33.50	8.0	25.1	1.04
I28	05 Nov 2020	42	13.59	92.11	6.2	33.50	8.0	25.1	0.95
I28	05 Nov 2020	43	13.61	92.33	6.2	33.50	8.0	25.1	0.95
I28	05 Nov 2020	44	13.33	92.54	6.2	33.52	8.0	25.2	0.87
I28	05 Nov 2020	45	13.22	92.82	6.2	33.52	8.0	25.2	0.77
I28	05 Nov 2020	46	13.24	92.94	6.2	33.52	8.0	25.2	0.73
I28	05 Nov 2020	47	13.08	93.00	6.1	33.54	8.0	25.2	0.65
I28	05 Nov 2020	48	12.97	93.06	5.9	33.55	8.0	25.3	0.57
I28	05 Nov 2020	49	12.95	93.03	5.8	33.55	8.0	25.3	0.55
I28	05 Nov 2020	50	12.91	93.03	5.8	33.55	8.0	25.3	0.52
I28	05 Nov 2020	51	12.86	93.05	5.8	33.56	8.0	25.3	0.51
I28	05 Nov 2020	52	12.83	93.08	5.8	33.56	8.0	25.3	0.49
I28	05 Nov 2020	53	12.78	93.09	5.8	33.56	8.0	25.3	0.48
I28	05 Nov 2020	54	12.77	93.14	5.8	33.57	8.0	25.3	0.48
I28	05 Nov 2020	55	12.68	93.13	5.7	33.58	8.0	25.4	0.46
I29	05 Nov 2020	1	18.32	85.71	8.1	33.58	8.2	24.1	1.05
I29	05 Nov 2020	2	18.31	86.02	8.1	33.58	8.2	24.1	1.09
I29	05 Nov 2020	3	18.29	86.59	8.2	33.58	8.2	24.1	1.17
I29	05 Nov 2020	4	18.28	86.63	8.2	33.57	8.2	24.1	1.37
I29	05 Nov 2020	5	18.28	86.57	8.1	33.58	8.2	24.1	1.48
I29	05 Nov 2020	6	18.26	86.53	8.1	33.57	8.2	24.1	1.79
I29	05 Nov 2020	7	18.02	86.40	8.1	33.56	8.2	24.2	2.03
I29	05 Nov 2020	8	17.79	85.89	8.1	33.55	8.2	24.2	2.19
I29	05 Nov 2020	9	17.42	85.75	8.0	33.53	8.2	24.3	2.30
I29	05 Nov 2020	10	17.01	85.70	7.9	33.52	8.2	24.4	2.40
I29	05 Nov 2020	11	16.78	85.98	7.8	33.50	8.2	24.4	2.47
I29	05 Nov 2020	12	16.40	86.44	7.7	33.49	8.2	24.5	2.54
I29	05 Nov 2020	13	16.26	86.70	7.6	33.49	8.2	24.5	2.64
I29	05 Nov 2020	14	16.03	86.90	7.5	33.49	8.2	24.6	2.71
I29	05 Nov 2020	15	15.78	87.07	7.3	33.48	8.1	24.6	2.77
I29	05 Nov 2020	16	15.66	87.21	7.2	33.48	8.1	24.7	2.81
I29	05 Nov 2020	17	15.55	87.22	7.0	33.48	8.1	24.7	2.84
I29	05 Nov 2020	18	15.39	87.34	6.8	33.48	8.1	24.7	2.84
I29	05 Nov 2020	19	15.15	87.54	6.7	33.48	8.1	24.8	2.83
I29	05 Nov 2020	20	15.00	87.89	6.5	33.48	8.1	24.8	2.79
I29	05 Nov 2020	21	14.82	88.11	6.4	33.48	8.1	24.8	2.73
I29	05 Nov 2020	22	14.72	88.17	6.3	33.48	8.1	24.9	2.62
I29	05 Nov 2020	23	14.63	88.29	6.2	33.47	8.0	24.9	2.48
I29	05 Nov 2020	24	14.56	88.35	6.2	33.47	8.0	24.9	2.18
I29	05 Nov 2020	25	14.53	88.69	6.2	33.47	8.0	24.9	1.91
I29	05 Nov 2020	26	14.53	89.39	6.1	33.48	8.0	24.9	1.60
I29	05 Nov 2020	27	14.53	89.74	6.1	33.48	8.0	24.9	1.48
I29	05 Nov 2020	28	14.50	89.95	6.1	33.48	8.0	24.9	1.47
I29	05 Nov 2020	29	14.49	89.80	6.1	33.48	8.0	24.9	1.47
I29	05 Nov 2020	30	14.49	89.84	6.1	33.48	8.0	24.9	1.39
I29	05 Nov 2020	31	14.46	90.01	6.0	33.48	8.0	24.9	1.31
I29	05 Nov 2020	32	14.45	90.24	6.0	33.48	8.0	24.9	1.19
I29	05 Nov 2020	33	14.41	90.33	6.0	33.48	8.0	24.9	1.20
I29	05 Nov 2020	34	14.36	90.47	6.0	33.48	8.0	24.9	1.09
I29	05 Nov 2020	35	14.32	90.67	5.9	33.49	8.0	25.0	0.98
I29	05 Nov 2020	36	14.07	90.74	5.7	33.50	8.0	25.0	0.85
I29	05 Nov 2020	37	13.62	90.65	5.5	33.52	8.0	25.1	0.77
I29	05 Nov 2020	38	13.78	89.97	5.4	33.50	8.0	25.1	0.74

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I3	03 Nov 2020	1	18.27	79.76	9.0	33.48	8.3	24.0	2.20
I3	03 Nov 2020	2	18.24	80.44	9.0	33.48	8.3	24.1	2.29
I3	03 Nov 2020	3	18.08	76.35	8.9	33.50	8.3	24.1	2.49
I3	03 Nov 2020	4	17.89	79.83	8.8	33.49	8.3	24.1	3.09
I3	03 Nov 2020	5	17.81	79.77	8.8	33.49	8.2	24.2	3.44
I3	03 Nov 2020	6	17.74	80.47	8.6	33.49	8.2	24.2	3.57
I3	03 Nov 2020	7	17.70	80.90	8.6	33.49	8.2	24.2	3.50
I3	03 Nov 2020	8	17.64	81.12	8.6	33.49	8.2	24.2	3.51
I3	03 Nov 2020	9	17.54	81.41	8.4	33.49	8.2	24.2	3.55
I3	03 Nov 2020	10	17.33	81.60	8.3	33.49	8.2	24.3	3.41
I3	03 Nov 2020	11	17.06	82.12	8.1	33.49	8.2	24.3	3.22
I3	03 Nov 2020	12	16.69	83.31	7.9	33.48	8.2	24.4	3.12
I3	03 Nov 2020	13	16.49	83.70	7.8	33.48	8.2	24.5	3.02
I3	03 Nov 2020	14	16.37	84.03	7.7	33.47	8.2	24.5	2.92
I3	03 Nov 2020	15	16.23	84.72	7.6	33.47	8.2	24.5	2.88
I3	03 Nov 2020	16	16.12	84.96	7.4	33.47	8.2	24.5	2.80
I3	03 Nov 2020	17	15.84	85.22	7.3	33.47	8.1	24.6	2.69
I3	03 Nov 2020	18	15.53	85.33	7.2	33.47	8.1	24.7	2.72
I3	03 Nov 2020	19	15.27	86.14	7.1	33.46	8.1	24.7	2.84
I3	03 Nov 2020	20	15.06	86.35	6.9	33.46	8.1	24.8	3.00
I3	03 Nov 2020	21	14.96	86.29	6.8	33.45	8.1	24.8	2.99
I3	03 Nov 2020	22	14.93	86.51	6.8	33.45	8.1	24.8	2.82
I3	03 Nov 2020	23	14.92	86.87	6.7	33.45	8.1	24.8	2.57
I3	03 Nov 2020	24	14.91	87.32	6.7	33.45	8.1	24.8	2.45
I3	03 Nov 2020	25	14.91	87.32	6.7	33.45	8.1	24.8	2.44
I3	03 Nov 2020	26	14.91	87.39	6.7	33.46	8.1	24.8	2.44
I3	03 Nov 2020	27	14.91	87.42	6.7	33.45	8.1	24.8	2.41
I30	05 Nov 2020	1	17.92	81.41	8.7	33.48	8.2	24.1	2.42
I30	05 Nov 2020	2	17.88	81.48	8.7	33.48	8.2	24.1	3.01
I30	05 Nov 2020	3	17.86	81.31	8.6	33.48	8.2	24.1	3.48
I30	05 Nov 2020	4	17.86	81.22	8.4	33.49	8.2	24.2	3.59
I30	05 Nov 2020	5	17.84	81.61	8.4	33.50	8.2	24.2	3.61
I30	05 Nov 2020	6	17.82	82.44	8.3	33.50	8.2	24.2	3.41
I30	05 Nov 2020	7	17.72	83.16	8.3	33.49	8.2	24.2	3.30
I30	05 Nov 2020	8	17.68	83.72	8.2	33.50	8.2	24.2	3.09
I30	05 Nov 2020	9	17.62	83.77	8.1	33.51	8.2	24.2	2.94
I30	05 Nov 2020	10	17.49	84.45	8.0	33.52	8.2	24.3	2.90
I30	05 Nov 2020	11	17.06	85.13	7.7	33.53	8.2	24.4	2.86
I30	05 Nov 2020	12	16.35	85.53	7.5	33.51	8.2	24.5	2.90
I30	05 Nov 2020	13	16.20	85.86	7.3	33.48	8.2	24.5	2.90
I30	05 Nov 2020	14	15.84	85.88	7.1	33.46	8.1	24.6	2.75
I30	05 Nov 2020	15	15.61	86.18	7.1	33.44	8.1	24.6	2.51
I30	05 Nov 2020	16	15.42	86.71	7.0	33.45	8.1	24.7	2.26
I30	05 Nov 2020	17	15.25	87.39	6.9	33.45	8.1	24.7	2.09
I30	05 Nov 2020	18	15.16	87.91	6.8	33.45	8.1	24.7	1.94
I30	05 Nov 2020	19	15.14	88.16	6.7	33.45	8.1	24.7	1.81
I30	05 Nov 2020	20	15.12	88.51	6.6	33.45	8.1	24.8	1.69
I30	05 Nov 2020	21	15.07	88.73	6.6	33.45	8.1	24.8	1.66
I30	05 Nov 2020	22	15.01	88.71	6.6	33.45	8.1	24.8	1.63
I30	05 Nov 2020	23	14.93	88.80	6.5	33.46	8.1	24.8	1.61
I30	05 Nov 2020	24	14.88	88.98	6.5	33.46	8.1	24.8	1.49
I30	05 Nov 2020	25	14.85	89.12	6.4	33.46	8.1	24.8	1.39
I30	05 Nov 2020	26	14.81	89.22	6.3	33.47	8.1	24.8	1.33
I30	05 Nov 2020	27	14.79	89.15	6.2	33.47	8.0	24.8	1.24
I30	05 Nov 2020	28	14.79	88.78	6.1	33.47	8.0	24.8	1.18
I31	05 Nov 2020	1	17.97	81.23	8.6	33.49	8.2	24.1	2.76
I31	05 Nov 2020	2	17.90	80.72	8.6	33.49	8.2	24.1	3.53
I31	05 Nov 2020	3	17.85	79.69	8.5	33.49	8.2	24.2	4.33
I31	05 Nov 2020	4	17.81	78.77	8.4	33.49	8.2	24.2	4.64

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I31	05 Nov 2020	5	17.78	78.69	8.4	33.49	8.2	24.2	4.74
I31	05 Nov 2020	6	17.68	79.39	8.2	33.49	8.2	24.2	4.45
I31	05 Nov 2020	7	17.46	81.17	8.0	33.50	8.2	24.3	3.88
I31	05 Nov 2020	8	17.12	82.26	7.8	33.49	8.2	24.3	3.49
I31	05 Nov 2020	9	16.63	83.97	7.6	33.49	8.2	24.4	2.96
I31	05 Nov 2020	10	16.30	85.57	7.5	33.46	8.2	24.5	2.52
I31	05 Nov 2020	11	16.16	86.74	7.3	33.46	8.1	24.5	2.21
I31	05 Nov 2020	12	16.10	87.02	7.2	33.46	8.1	24.5	1.96
I31	05 Nov 2020	13	16.06	87.28	7.0	33.46	8.1	24.5	1.74
I31	05 Nov 2020	14	16.04	87.67	6.9	33.46	8.1	24.6	1.67
I31	05 Nov 2020	15	16.02	87.78	6.7	33.46	8.1	24.6	1.48
I31	05 Nov 2020	16	15.85	87.18	6.6	33.47	8.1	24.6	1.33
I31	05 Nov 2020	17	15.75	86.66	6.5	33.47	8.1	24.6	1.20
I31	05 Nov 2020	18	15.69	86.54	6.4	33.47	8.1	24.6	1.13
I31	05 Nov 2020	19	15.54	86.07	6.3	33.47	8.1	24.7	1.15
I33	05 Nov 2020	1	17.86	81.30	8.4	33.52	8.2	24.2	2.25
I33	05 Nov 2020	2	17.85	80.42	8.3	33.52	8.2	24.2	2.39
I33	05 Nov 2020	3	17.84	83.34	8.3	33.52	8.2	24.2	2.60
I33	05 Nov 2020	4	17.84	83.66	8.3	33.52	8.2	24.2	2.76
I33	05 Nov 2020	5	17.82	83.70	8.2	33.52	8.2	24.2	2.91
I33	05 Nov 2020	6	17.74	83.57	8.1	33.52	8.2	24.2	3.22
I33	05 Nov 2020	7	17.59	82.57	8.1	33.52	8.2	24.2	3.46
I33	05 Nov 2020	8	17.51	82.82	7.9	33.51	8.2	24.3	3.57
I33	05 Nov 2020	9	17.44	82.51	7.8	33.51	8.2	24.3	3.56
I33	05 Nov 2020	10	17.34	82.24	7.6	33.52	8.2	24.3	3.38
I33	05 Nov 2020	11	16.86	82.14	7.4	33.51	8.2	24.4	3.32
I33	05 Nov 2020	12	16.40	82.76	7.2	33.49	8.1	24.5	3.06
I33	05 Nov 2020	13	16.12	83.70	7.0	33.48	8.1	24.6	2.76
I33	05 Nov 2020	14	16.02	84.52	6.8	33.46	8.1	24.6	2.64
I33	05 Nov 2020	15	15.94	85.51	6.7	33.46	8.1	24.6	2.39
I33	05 Nov 2020	16	15.74	86.06	6.6	33.47	8.1	24.6	2.37
I33	05 Nov 2020	17	15.57	86.33	6.5	33.47	8.1	24.7	2.16
I33	05 Nov 2020	18	15.49	86.55	6.5	33.46	8.1	24.7	2.10
I33	05 Nov 2020	19	15.48	86.94	6.5	33.46	8.1	24.7	2.18
I33	05 Nov 2020	20	15.39	87.09	6.5	33.47	8.1	24.7	2.13
I33	05 Nov 2020	21	15.14	87.31	6.5	33.47	8.1	24.8	2.07
I33	05 Nov 2020	22	15.01	87.66	6.4	33.47	8.1	24.8	1.86
I33	05 Nov 2020	23	14.89	88.24	6.3	33.47	8.0	24.8	1.73
I33	05 Nov 2020	24	14.82	88.67	6.1	33.47	8.0	24.8	1.44
I33	05 Nov 2020	25	14.73	88.71	6.0	33.47	8.0	24.9	1.32
I33	05 Nov 2020	26	14.70	89.03	6.0	33.47	8.0	24.9	1.26
I33	05 Nov 2020	27	14.64	89.29	6.0	33.48	8.0	24.9	1.18
I33	05 Nov 2020	28	14.61	89.53	6.0	33.48	8.0	24.9	1.20
I33	05 Nov 2020	29	14.58	89.66	6.0	33.48	8.0	24.9	1.16
I33	05 Nov 2020	30	14.52	89.73	5.9	33.48	8.0	24.9	0.99
I34	05 Nov 2020	1	17.86	83.36	8.4	33.51	8.2	24.2	2.62
I34	05 Nov 2020	2	17.86	83.24	8.4	33.51	8.2	24.2	2.80
I34	05 Nov 2020	3	17.82	82.89	8.2	33.51	8.2	24.2	3.28
I34	05 Nov 2020	4	17.53	82.81	7.8	33.52	8.2	24.3	3.51
I34	05 Nov 2020	5	17.15	82.13	7.5	33.51	8.2	24.3	3.61
I34	05 Nov 2020	6	16.95	82.07	7.3	33.50	8.2	24.4	3.43
I34	05 Nov 2020	7	16.49	82.91	6.9	33.49	8.1	24.5	3.14
I34	05 Nov 2020	8	16.05	83.63	6.6	33.48	8.1	24.6	2.75
I34	05 Nov 2020	9	15.85	84.45	6.4	33.47	8.1	24.6	2.34
I34	05 Nov 2020	10	15.77	85.59	6.4	33.46	8.1	24.6	2.18
I34	05 Nov 2020	11	15.70	85.90	6.4	33.46	8.1	24.6	2.04
I34	05 Nov 2020	12	15.53	86.55	6.4	33.47	8.1	24.7	1.88
I34	05 Nov 2020	13	15.39	87.06	6.3	33.46	8.0	24.7	1.70
I34	05 Nov 2020	14	15.29	87.30	6.3	33.46	8.0	24.7	1.58

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I34	05 Nov 2020	15	15.22	87.69	6.2	33.46	8.0	24.7	1.37
I34	05 Nov 2020	16	15.10	88.11	6.1	33.47	8.0	24.8	1.22
I34	05 Nov 2020	17	15.05	87.64	6.1	33.47	8.0	24.8	1.24
I34	05 Nov 2020	18	15.04	86.94	6.1	33.47	8.0	24.8	1.28
I34	05 Nov 2020	19	15.04	86.10	6.0	33.47	8.0	24.8	1.24
I35	05 Nov 2020	1	18.24	77.67	8.8	33.49	8.3	24.1	2.91
I35	05 Nov 2020	2	18.25	76.70	8.8	33.50	8.3	24.1	3.04
I35	05 Nov 2020	3	18.18	76.94	8.8	33.50	8.3	24.1	3.76
I35	05 Nov 2020	4	18.14	76.91	8.7	33.50	8.3	24.1	4.23
I35	05 Nov 2020	5	18.00	77.32	8.4	33.50	8.3	24.1	4.45
I35	05 Nov 2020	6	17.72	79.40	8.2	33.51	8.2	24.2	4.40
I35	05 Nov 2020	7	17.27	81.72	7.9	33.51	8.2	24.3	3.97
I35	05 Nov 2020	8	16.90	82.86	7.6	33.50	8.2	24.4	3.25
I35	05 Nov 2020	9	16.38	84.66	7.2	33.48	8.2	24.5	2.73
I35	05 Nov 2020	10	16.18	86.47	6.9	33.47	8.1	24.5	2.36
I35	05 Nov 2020	11	16.14	87.01	6.7	33.46	8.1	24.5	2.16
I35	05 Nov 2020	12	16.11	87.31	6.6	33.46	8.1	24.5	1.88
I35	05 Nov 2020	13	15.96	87.71	6.5	33.47	8.1	24.6	1.65
I35	05 Nov 2020	14	15.82	88.14	6.2	33.47	8.1	24.6	1.48
I35	05 Nov 2020	15	15.61	87.69	5.7	33.47	8.0	24.7	1.41
I35	05 Nov 2020	16	15.50	85.74	5.4	33.47	8.0	24.7	1.31
I35	05 Nov 2020	17	15.47	83.33	5.3	33.46	8.0	24.7	1.27
I35	05 Nov 2020	18	15.49	82.93	5.2	33.46	8.0	24.7	1.19
I35	05 Nov 2020	19	15.47	80.74	5.1	33.47	8.0	24.7	1.19
I36	05 Nov 2020	1	17.96	72.94	7.8	33.53	8.2	24.2	3.37
I36	05 Nov 2020	2	17.62	73.82	7.7	33.52	8.2	24.2	4.39
I36	05 Nov 2020	3	17.34	71.97	7.5	33.50	8.2	24.3	5.24
I36	05 Nov 2020	4	17.10	73.46	7.5	33.49	8.2	24.3	4.86
I36	05 Nov 2020	5	16.78	80.36	7.3	33.48	8.2	24.4	4.43
I36	05 Nov 2020	6	16.59	82.98	7.2	33.48	8.1	24.4	4.18
I36	05 Nov 2020	7	16.41	83.84	7.0	33.47	8.1	24.5	3.89
I36	05 Nov 2020	8	16.34	84.89	6.8	33.47	8.1	24.5	3.32
I36	05 Nov 2020	9	16.24	85.50	6.7	33.47	8.1	24.5	2.72
I36	05 Nov 2020	10	16.19	85.60	6.6	33.47	8.1	24.5	2.23
I36	05 Nov 2020	11	16.16	83.82	6.4	33.47	8.1	24.5	1.94
I37	05 Nov 2020	1	17.98	81.94	8.6	33.50	8.2	24.1	3.02
I37	05 Nov 2020	2	17.97	81.79	8.6	33.50	8.2	24.1	3.18
I37	05 Nov 2020	3	17.94	81.66	8.5	33.50	8.2	24.1	3.51
I37	05 Nov 2020	4	17.81	81.38	8.2	33.51	8.2	24.2	3.69
I37	05 Nov 2020	5	17.68	80.79	7.8	33.52	8.2	24.2	3.69
I37	05 Nov 2020	6	17.61	80.73	7.6	33.51	8.2	24.2	3.60
I37	05 Nov 2020	7	17.56	80.81	7.6	33.51	8.2	24.2	3.65
I37	05 Nov 2020	8	17.51	80.90	7.5	33.51	8.2	24.2	3.60
I37	05 Nov 2020	9	17.45	81.01	7.4	33.51	8.2	24.3	3.50
I37	05 Nov 2020	10	17.35	81.16	7.2	33.51	8.1	24.3	3.35
I37	05 Nov 2020	11	17.02	81.31	6.9	33.52	8.1	24.4	3.20
I37	05 Nov 2020	12	16.29	81.49	6.8	33.49	8.1	24.5	2.89
I38	05 Nov 2020	1	18.33	82.04	8.5	33.52	8.2	24.1	1.58
I38	05 Nov 2020	2	18.23	81.90	8.5	33.53	8.2	24.1	1.74
I38	05 Nov 2020	3	18.17	81.35	8.4	33.53	8.2	24.1	2.06
I38	05 Nov 2020	4	18.13	80.73	8.4	33.53	8.2	24.1	2.43
I38	05 Nov 2020	5	18.06	80.85	8.2	33.53	8.2	24.1	2.80
I38	05 Nov 2020	6	17.70	81.50	7.8	33.53	8.2	24.2	3.21
I38	05 Nov 2020	7	17.14	81.56	7.2	33.52	8.2	24.3	3.36
I38	05 Nov 2020	8	16.68	80.75	7.0	33.49	8.1	24.4	3.41
I38	05 Nov 2020	9	16.35	81.37	6.7	33.48	8.1	24.5	3.57
I38	05 Nov 2020	10	16.20	81.09	5.9	33.48	8.0	24.5	3.26

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I38	05 Nov 2020	11	16.08	77.66	5.0	33.47	8.0	24.6	2.66
I4	03 Nov 2020	1	17.85	79.50	8.7	33.48	8.2	24.1	1.90
I4	03 Nov 2020	2	17.63	79.36	8.5	33.48	8.2	24.2	2.00
I4	03 Nov 2020	3	17.09	79.51	8.2	33.48	8.2	24.3	2.19
I4	03 Nov 2020	4	16.51	81.54	8.0	33.47	8.2	24.5	2.23
I4	03 Nov 2020	5	16.36	83.06	7.8	33.46	8.2	24.5	2.42
I4	03 Nov 2020	6	16.34	83.25	7.7	33.46	8.2	24.5	2.70
I4	03 Nov 2020	7	16.33	83.04	7.6	33.46	8.2	24.5	2.83
I4	03 Nov 2020	8	16.32	82.83	7.6	33.46	8.2	24.5	2.95
I4	03 Nov 2020	9	16.31	82.98	7.5	33.46	8.2	24.5	3.01
I4	03 Nov 2020	10	16.30	83.02	7.5	33.47	8.1	24.5	2.88
I4	03 Nov 2020	11	16.30	82.97	7.4	33.47	8.1	24.5	2.67
I4	03 Nov 2020	12	16.27	82.90	7.3	33.47	8.1	24.5	2.56
I4	03 Nov 2020	13	16.23	82.74	7.3	33.47	8.1	24.5	2.53
I4	03 Nov 2020	14	16.16	83.02	7.2	33.47	8.1	24.5	2.45
I4	03 Nov 2020	15	16.03	83.21	7.2	33.47	8.1	24.6	2.51
I4	03 Nov 2020	16	15.96	83.66	7.2	33.47	8.1	24.6	2.54
I4	03 Nov 2020	17	15.95	84.29	7.2	33.47	8.1	24.6	2.53
I4	03 Nov 2020	18	15.94	84.43	7.2	33.47	8.1	24.6	2.53
I5	03 Nov 2020	1	17.38	69.92	8.2	33.36	8.2	24.2	2.29
I5	03 Nov 2020	2	17.29	70.01	8.2	33.38	8.2	24.2	2.55
I5	03 Nov 2020	3	17.19	72.35	8.1	33.45	8.2	24.3	2.66
I5	03 Nov 2020	4	16.91	78.04	8.0	33.48	8.2	24.4	2.71
I5	03 Nov 2020	5	16.83	80.73	7.8	33.47	8.2	24.4	2.82
I5	03 Nov 2020	6	16.80	80.12	7.7	33.47	8.2	24.4	2.99
I5	03 Nov 2020	7	16.80	79.78	7.7	33.47	8.2	24.4	2.99
I5	03 Nov 2020	8	16.79	79.65	7.7	33.47	8.2	24.4	3.06
I5	03 Nov 2020	9	16.78	79.61	7.6	33.47	8.2	24.4	2.98
I5	03 Nov 2020	10	16.78	79.42	7.7	33.47	8.2	24.4	2.95
I5	03 Nov 2020	11	16.75	79.22	7.6	33.47	8.2	24.4	2.94
I5	03 Nov 2020	12	16.70	78.10	7.5	33.47	8.1	24.4	2.73
I5	03 Nov 2020	13	16.69	76.29	7.4	33.47	8.1	24.4	2.64
I5	03 Nov 2020	14	16.64	74.32	7.3	33.47	8.1	24.4	2.49
I6	03 Nov 2020	1	18.34	76.35	8.9	33.42	8.2	24.0	2.00
I6	03 Nov 2020	2	18.20	76.20	8.7	33.45	8.3	24.0	2.10
I6	03 Nov 2020	3	17.21	76.71	8.3	33.49	8.2	24.3	2.15
I6	03 Nov 2020	4	16.83	81.05	8.0	33.48	8.2	24.4	2.36
I6	03 Nov 2020	5	16.62	82.73	7.7	33.48	8.2	24.4	2.58
I6	03 Nov 2020	6	16.22	83.79	7.5	33.48	8.2	24.5	2.82
I6	03 Nov 2020	7	16.10	85.04	7.4	33.48	8.2	24.6	2.86
I6	03 Nov 2020	8	15.80	85.33	7.2	33.46	8.2	24.6	2.86
I6	03 Nov 2020	9	15.64	85.79	7.2	33.46	8.1	24.6	2.73
I6	03 Nov 2020	10	15.63	86.18	7.1	33.45	8.1	24.6	2.72
I6	03 Nov 2020	11	15.53	86.23	7.0	33.46	8.1	24.7	2.77
I6	03 Nov 2020	12	15.33	86.40	7.0	33.46	8.1	24.7	2.70
I6	03 Nov 2020	13	15.27	86.55	6.9	33.45	8.1	24.7	2.65
I6	03 Nov 2020	14	15.26	86.81	6.8	33.45	8.1	24.7	2.51
I6	03 Nov 2020	15	15.21	86.84	6.8	33.45	8.1	24.7	2.37
I6	03 Nov 2020	16	15.20	86.95	6.7	33.45	8.1	24.7	2.22
I6	03 Nov 2020	17	15.20	87.06	6.7	33.46	8.1	24.7	2.18
I6	03 Nov 2020	18	15.19	87.23	6.7	33.46	8.1	24.7	2.19
I6	03 Nov 2020	19	15.18	87.33	6.7	33.46	8.1	24.7	2.16
I6	03 Nov 2020	20	15.18	87.29	6.7	33.46	8.1	24.7	2.22
I6	03 Nov 2020	21	15.17	87.27	6.7	33.46	8.1	24.7	2.20
I6	03 Nov 2020	22	15.17	87.33	6.6	33.46	8.1	24.7	2.23
I6	03 Nov 2020	23	15.16	87.34	6.6	33.46	8.1	24.8	2.33
I6	03 Nov 2020	24	15.17	87.24	6.7	33.46	8.1	24.7	2.22
I6	03 Nov 2020	25	15.16	87.40	6.6	33.46	8.1	24.8	2.36

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
16	03 Nov 2020	26	15.17	87.36	6.6	33.46	8.1	24.8	2.10
17	03 Nov 2020	1	19.24	89.57	7.8	33.64	8.2	23.9	0.74
17	03 Nov 2020	2	19.24	89.56	7.8	33.64	8.2	23.9	0.78
17	03 Nov 2020	3	19.19	88.79	7.8	33.64	8.2	23.9	0.84
17	03 Nov 2020	4	18.99	89.05	7.8	33.63	8.2	24.0	1.12
17	03 Nov 2020	5	18.27	88.40	8.1	33.58	8.2	24.1	1.48
17	03 Nov 2020	6	17.93	87.08	8.2	33.55	8.2	24.2	1.84
17	03 Nov 2020	7	17.74	86.25	8.2	33.54	8.2	24.2	2.08
17	03 Nov 2020	8	17.62	85.61	8.2	33.53	8.2	24.2	2.30
17	03 Nov 2020	9	17.53	85.18	8.2	33.52	8.2	24.3	2.55
17	03 Nov 2020	10	17.29	84.87	8.1	33.52	8.2	24.3	2.77
17	03 Nov 2020	11	17.11	84.68	8.0	33.51	8.2	24.3	2.94
17	03 Nov 2020	12	16.91	84.69	7.8	33.51	8.1	24.4	3.09
17	03 Nov 2020	13	16.66	85.00	7.7	33.50	8.1	24.4	3.35
17	03 Nov 2020	14	16.24	85.16	7.6	33.50	8.1	24.5	3.35
17	03 Nov 2020	15	16.00	85.31	7.4	33.49	8.1	24.6	3.45
17	03 Nov 2020	16	15.77	85.82	7.3	33.49	8.1	24.6	3.48
17	03 Nov 2020	17	15.65	86.16	7.2	33.48	8.1	24.7	3.43
17	03 Nov 2020	18	15.47	86.38	7.2	33.48	8.1	24.7	3.41
17	03 Nov 2020	19	15.32	86.62	7.2	33.47	8.1	24.7	3.33
17	03 Nov 2020	20	15.24	86.91	7.2	33.47	8.1	24.7	3.32
17	03 Nov 2020	21	15.26	87.12	7.1	33.48	8.1	24.7	3.26
17	03 Nov 2020	22	15.22	87.25	7.0	33.48	8.1	24.8	3.04
17	03 Nov 2020	23	15.16	87.32	7.0	33.48	8.1	24.8	3.01
17	03 Nov 2020	24	15.01	87.45	6.9	33.48	8.1	24.8	2.85
17	03 Nov 2020	25	14.62	87.57	6.8	33.48	8.0	24.9	2.75
17	03 Nov 2020	26	14.44	87.98	6.8	33.47	8.0	24.9	2.70
17	03 Nov 2020	27	14.40	88.35	6.8	33.47	8.0	24.9	2.68
17	03 Nov 2020	28	14.34	88.53	6.7	33.47	8.0	24.9	2.52
17	03 Nov 2020	29	14.27	88.56	6.7	33.47	8.0	24.9	2.49
17	03 Nov 2020	30	14.24	88.65	6.6	33.47	8.0	25.0	2.39
17	03 Nov 2020	31	14.13	88.80	6.5	33.48	8.0	25.0	2.13
17	03 Nov 2020	32	13.94	89.46	6.4	33.49	8.0	25.0	1.86
17	03 Nov 2020	33	13.87	89.68	6.3	33.50	8.0	25.1	1.44
17	03 Nov 2020	34	13.84	90.61	6.3	33.50	8.0	25.1	1.19
17	03 Nov 2020	35	13.81	91.22	6.2	33.50	8.0	25.1	1.16
17	03 Nov 2020	36	13.76	91.41	6.2	33.50	8.0	25.1	1.05
17	03 Nov 2020	37	13.71	91.56	6.2	33.51	8.0	25.1	0.97
17	03 Nov 2020	38	13.66	91.73	6.1	33.51	8.0	25.1	0.92
17	03 Nov 2020	39	13.56	91.83	6.1	33.52	8.0	25.1	0.83
17	03 Nov 2020	40	13.47	91.99	6.0	33.52	8.0	25.2	0.76
17	03 Nov 2020	41	13.38	92.15	6.0	33.52	8.0	25.2	0.70
17	03 Nov 2020	42	13.23	92.37	6.1	33.52	8.0	25.2	0.64
17	03 Nov 2020	43	13.19	92.74	6.2	33.52	8.0	25.2	0.63
17	03 Nov 2020	44	13.15	92.93	6.2	33.52	8.0	25.2	0.61
17	03 Nov 2020	45	13.10	92.99	6.1	33.53	8.0	25.2	0.59
17	03 Nov 2020	46	13.04	93.07	6.1	33.54	8.0	25.3	0.56
17	03 Nov 2020	47	13.03	93.13	5.9	33.55	8.0	25.3	0.49
17	03 Nov 2020	48	13.01	92.98	5.8	33.55	7.9	25.3	0.45
17	03 Nov 2020	49	12.94	92.89	5.8	33.55	7.9	25.3	0.44
17	03 Nov 2020	50	12.88	93.04	5.9	33.55	7.9	25.3	0.45
17	03 Nov 2020	51	12.81	93.12	5.8	33.56	7.9	25.3	0.44
17	03 Nov 2020	52	12.72	92.99	5.7	33.58	7.9	25.3	0.42
18	03 Nov 2020	1	18.24	84.72	8.2	33.57	8.2	24.1	1.14
18	03 Nov 2020	2	18.02	84.88	8.2	33.57	8.2	24.2	1.23
18	03 Nov 2020	3	17.86	84.90	8.2	33.55	8.2	24.2	1.46
18	03 Nov 2020	4	17.82	84.72	8.3	33.55	8.2	24.2	1.74
18	03 Nov 2020	5	17.78	84.56	8.3	33.54	8.2	24.2	1.94
18	03 Nov 2020	6	17.76	84.32	8.3	33.54	8.2	24.2	2.14

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
18	03 Nov 2020	7	17.69	84.20	8.3	33.54	8.2	24.2	2.44
18	03 Nov 2020	8	17.64	84.17	8.2	33.54	8.2	24.2	2.74
18	03 Nov 2020	9	17.47	84.02	8.2	33.53	8.2	24.3	3.07
18	03 Nov 2020	10	17.36	84.17	8.1	33.53	8.2	24.3	3.13
18	03 Nov 2020	11	17.19	84.27	8.0	33.52	8.2	24.3	3.16
18	03 Nov 2020	12	17.06	84.58	7.9	33.52	8.2	24.4	3.15
18	03 Nov 2020	13	16.86	85.22	7.8	33.52	8.2	24.4	3.10
18	03 Nov 2020	14	16.55	85.52	7.7	33.51	8.2	24.5	3.19
18	03 Nov 2020	15	16.37	86.04	7.6	33.50	8.2	24.5	3.28
18	03 Nov 2020	16	16.18	86.03	7.5	33.50	8.2	24.6	3.44
18	03 Nov 2020	17	15.94	85.75	7.3	33.49	8.2	24.6	3.36
18	03 Nov 2020	18	15.75	85.59	7.2	33.48	8.2	24.6	3.43
18	03 Nov 2020	19	15.56	86.15	7.0	33.48	8.1	24.7	3.36
18	03 Nov 2020	20	15.43	86.06	6.9	33.47	8.1	24.7	3.30
18	03 Nov 2020	21	15.25	86.35	6.8	33.48	8.1	24.7	3.20
18	03 Nov 2020	22	15.11	86.82	6.7	33.49	8.1	24.8	2.97
18	03 Nov 2020	23	14.87	87.64	6.6	33.49	8.1	24.8	2.49
18	03 Nov 2020	24	14.61	88.37	6.4	33.49	8.1	24.9	2.09
18	03 Nov 2020	25	14.41	88.94	6.3	33.48	8.1	24.9	1.69
18	03 Nov 2020	26	14.40	89.33	6.2	33.47	8.1	24.9	1.65
18	03 Nov 2020	27	14.40	89.43	6.1	33.47	8.1	24.9	1.50
18	03 Nov 2020	28	14.40	89.62	6.1	33.48	8.0	24.9	1.43
18	03 Nov 2020	29	14.40	89.58	6.1	33.48	8.0	24.9	1.41
18	03 Nov 2020	30	14.40	89.91	6.1	33.48	8.0	24.9	1.39
18	03 Nov 2020	31	14.40	89.91	6.1	33.48	8.0	24.9	1.32
18	03 Nov 2020	32	14.40	89.82	6.1	33.48	8.0	24.9	1.29
18	03 Nov 2020	33	14.40	89.85	6.1	33.48	8.0	24.9	1.30
18	03 Nov 2020	34	14.40	89.84	6.1	33.48	8.0	24.9	1.24
18	03 Nov 2020	35	14.39	90.03	6.0	33.48	8.0	24.9	1.23
18	03 Nov 2020	36	14.39	90.10	6.0	33.48	8.0	24.9	1.24
19	03 Nov 2020	1	18.48	79.71	8.9	33.49	8.3	24.0	2.17
19	03 Nov 2020	2	18.45	79.97	8.8	33.50	8.3	24.0	2.17
19	03 Nov 2020	3	18.13	80.09	8.6	33.52	8.3	24.1	2.27
19	03 Nov 2020	4	17.50	80.54	8.4	33.53	8.2	24.3	2.46
19	03 Nov 2020	5	17.47	81.96	8.3	33.52	8.2	24.3	2.67
19	03 Nov 2020	6	17.44	82.79	8.2	33.52	8.2	24.3	2.89
19	03 Nov 2020	7	17.41	83.00	8.1	33.52	8.2	24.3	3.04
19	03 Nov 2020	8	17.27	83.45	8.0	33.52	8.2	24.3	3.27
19	03 Nov 2020	9	16.80	83.80	7.8	33.51	8.2	24.4	3.50
19	03 Nov 2020	10	16.69	84.17	7.7	33.49	8.2	24.4	3.60
19	03 Nov 2020	11	16.60	84.15	7.5	33.48	8.2	24.4	3.81
19	03 Nov 2020	12	16.42	83.81	7.4	33.49	8.2	24.5	3.85
19	03 Nov 2020	13	16.21	83.76	7.3	33.49	8.2	24.5	3.70
19	03 Nov 2020	14	15.92	84.16	7.2	33.48	8.1	24.6	3.41
19	03 Nov 2020	15	15.71	84.85	7.2	33.47	8.1	24.6	3.17
19	03 Nov 2020	16	15.52	85.69	7.0	33.47	8.1	24.7	3.05
19	03 Nov 2020	17	15.21	86.37	6.9	33.47	8.1	24.7	2.92
19	03 Nov 2020	18	14.99	86.53	6.7	33.46	8.1	24.8	2.74
19	03 Nov 2020	19	14.91	86.67	6.6	33.46	8.1	24.8	2.43
19	03 Nov 2020	20	14.91	87.18	6.5	33.46	8.1	24.8	2.29
19	03 Nov 2020	21	14.91	87.72	6.5	33.46	8.1	24.8	2.18
19	03 Nov 2020	22	14.91	87.90	6.4	33.46	8.1	24.8	2.07
19	03 Nov 2020	23	14.90	87.95	6.4	33.46	8.1	24.8	2.10
19	03 Nov 2020	24	14.91	88.07	6.4	33.47	8.1	24.8	2.06
19	03 Nov 2020	25	14.91	88.09	6.4	33.47	8.1	24.8	1.97
19	03 Nov 2020	26	14.91	88.18	6.4	33.47	8.1	24.8	1.97
19	03 Nov 2020	27	14.91	88.17	6.4	33.47	8.1	24.8	1.98
19	03 Nov 2020	28	14.90	88.17	6.4	33.47	8.1	24.8	1.90
19	03 Nov 2020	29	14.90	88.14	6.4	33.47	8.1	24.8	1.89

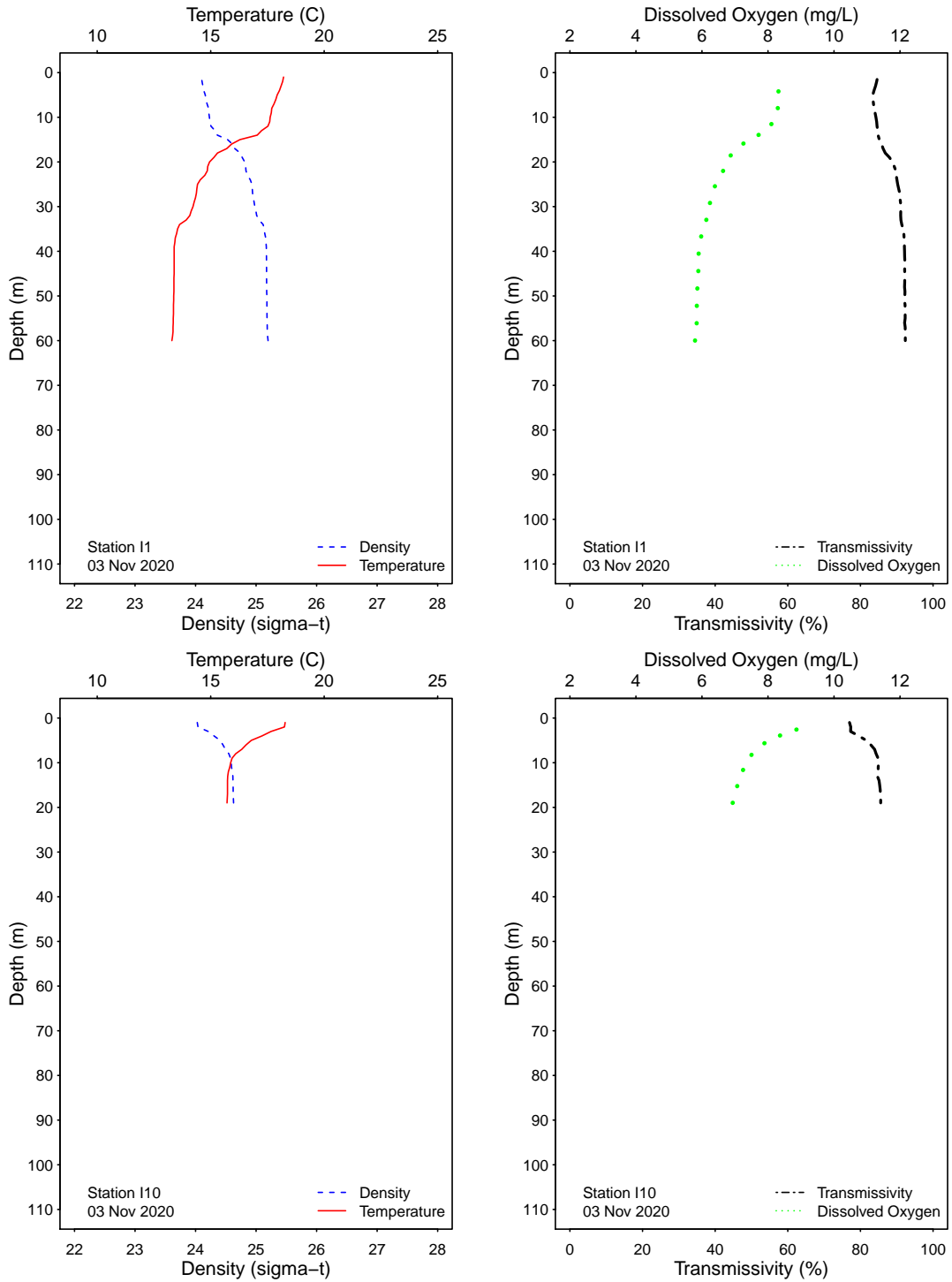


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

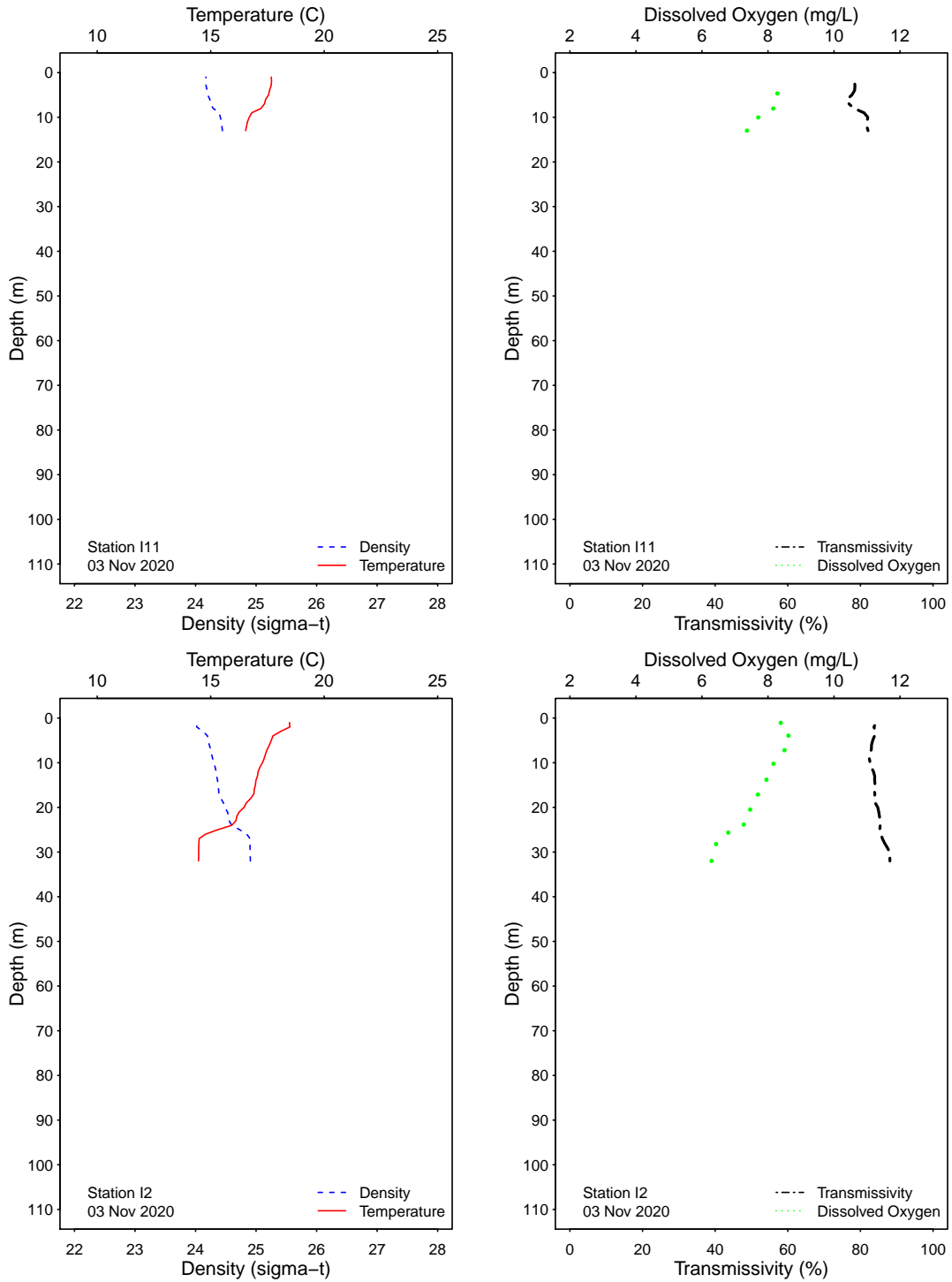


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

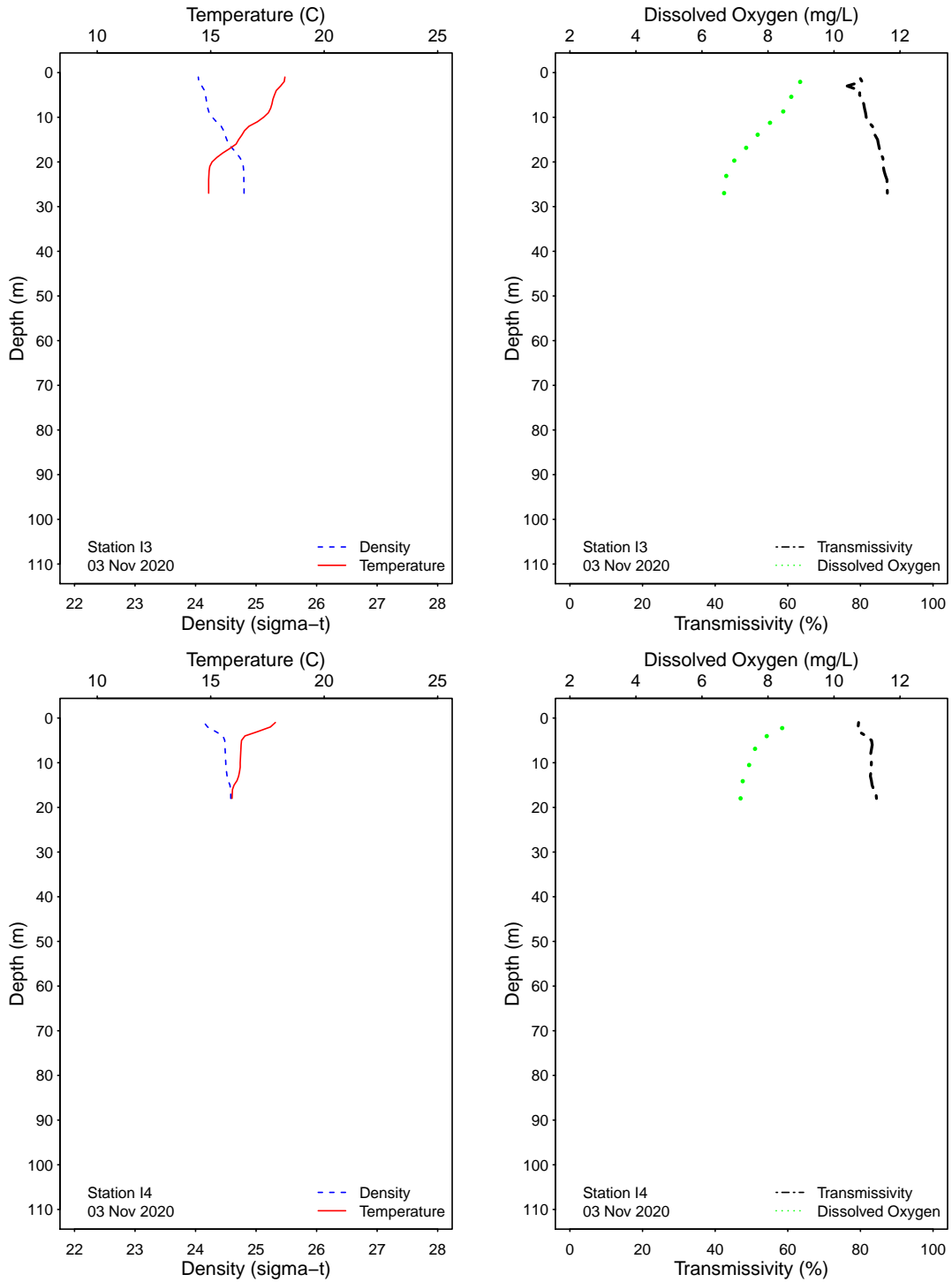


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

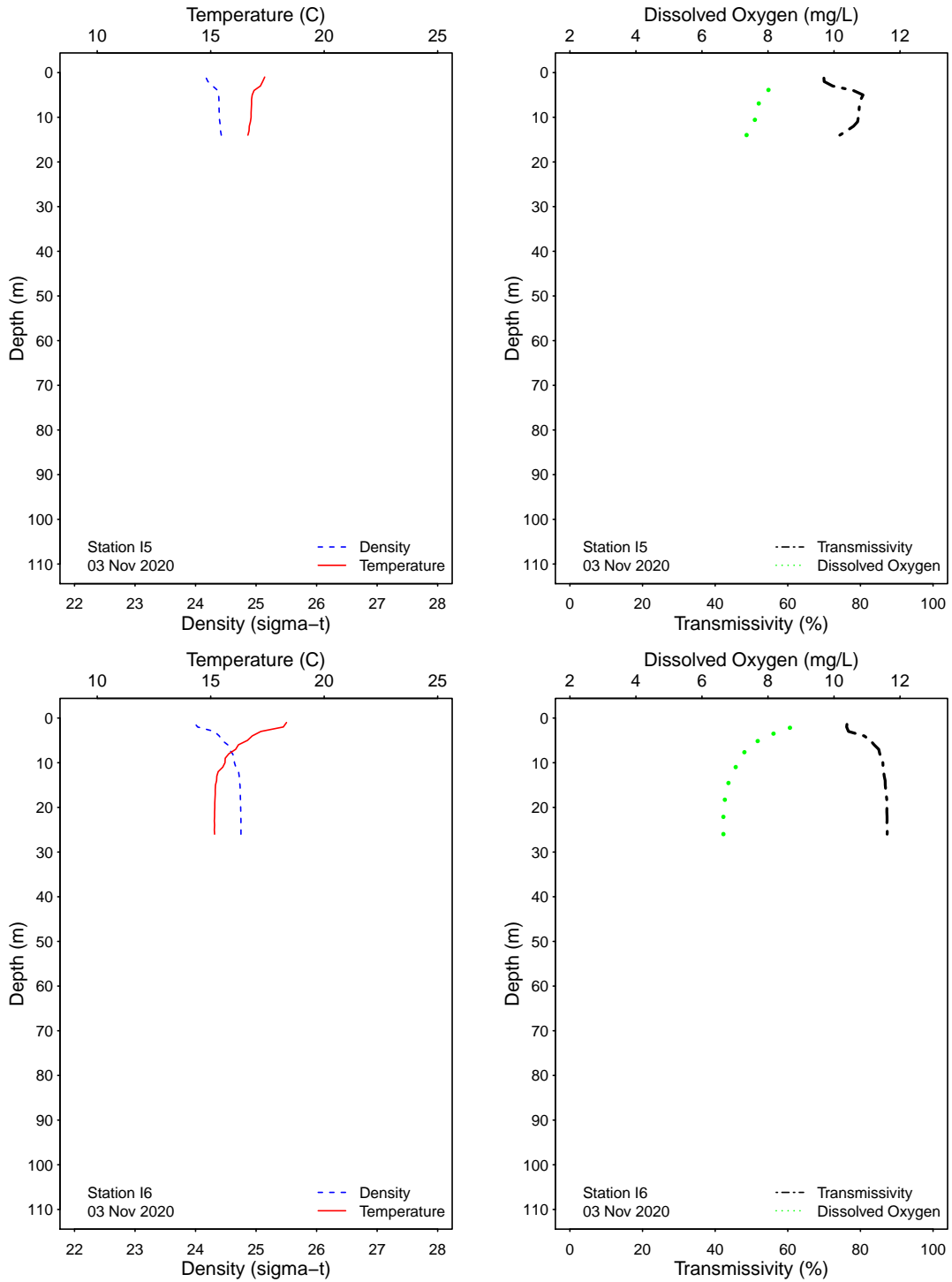


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

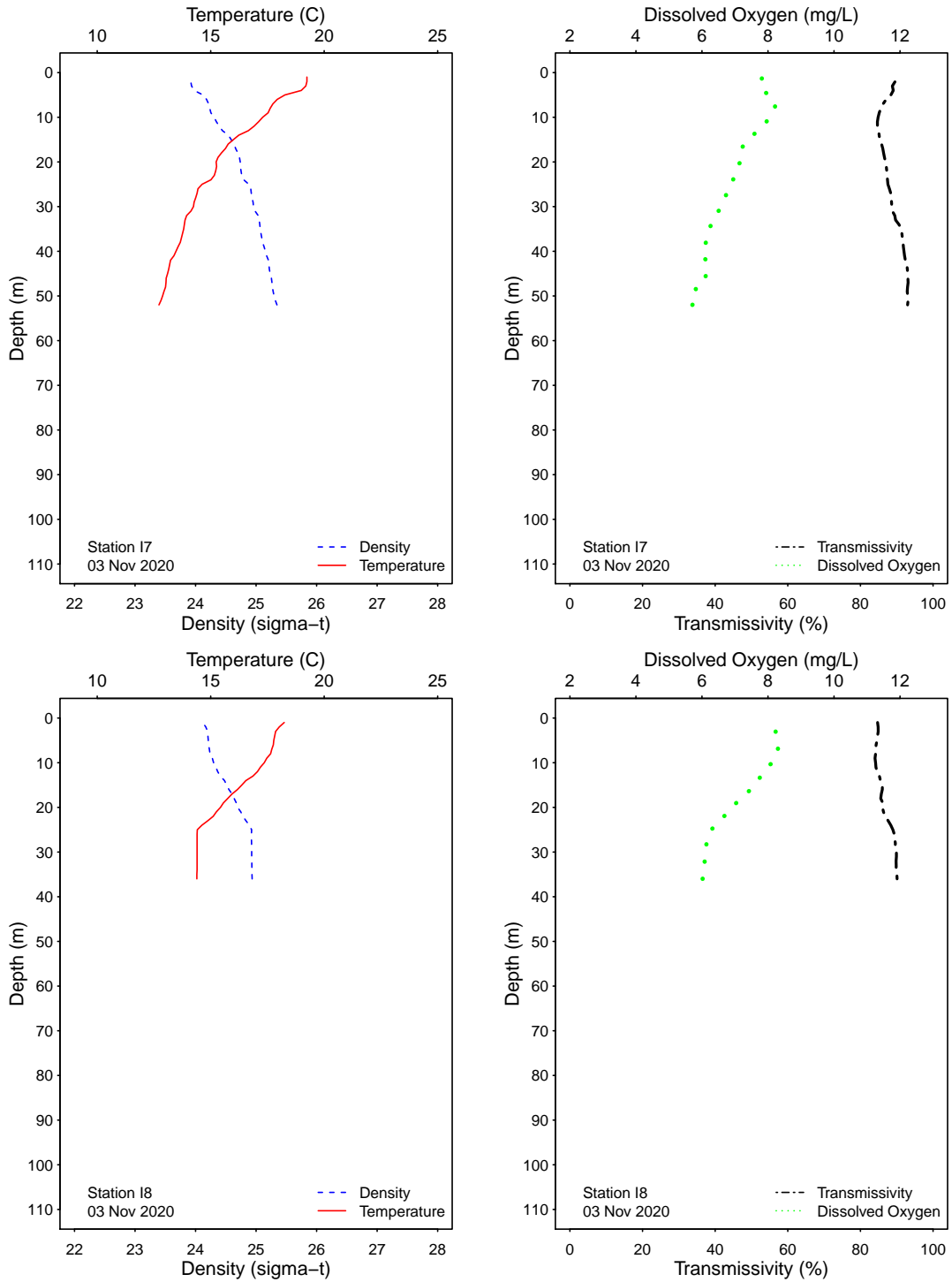


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

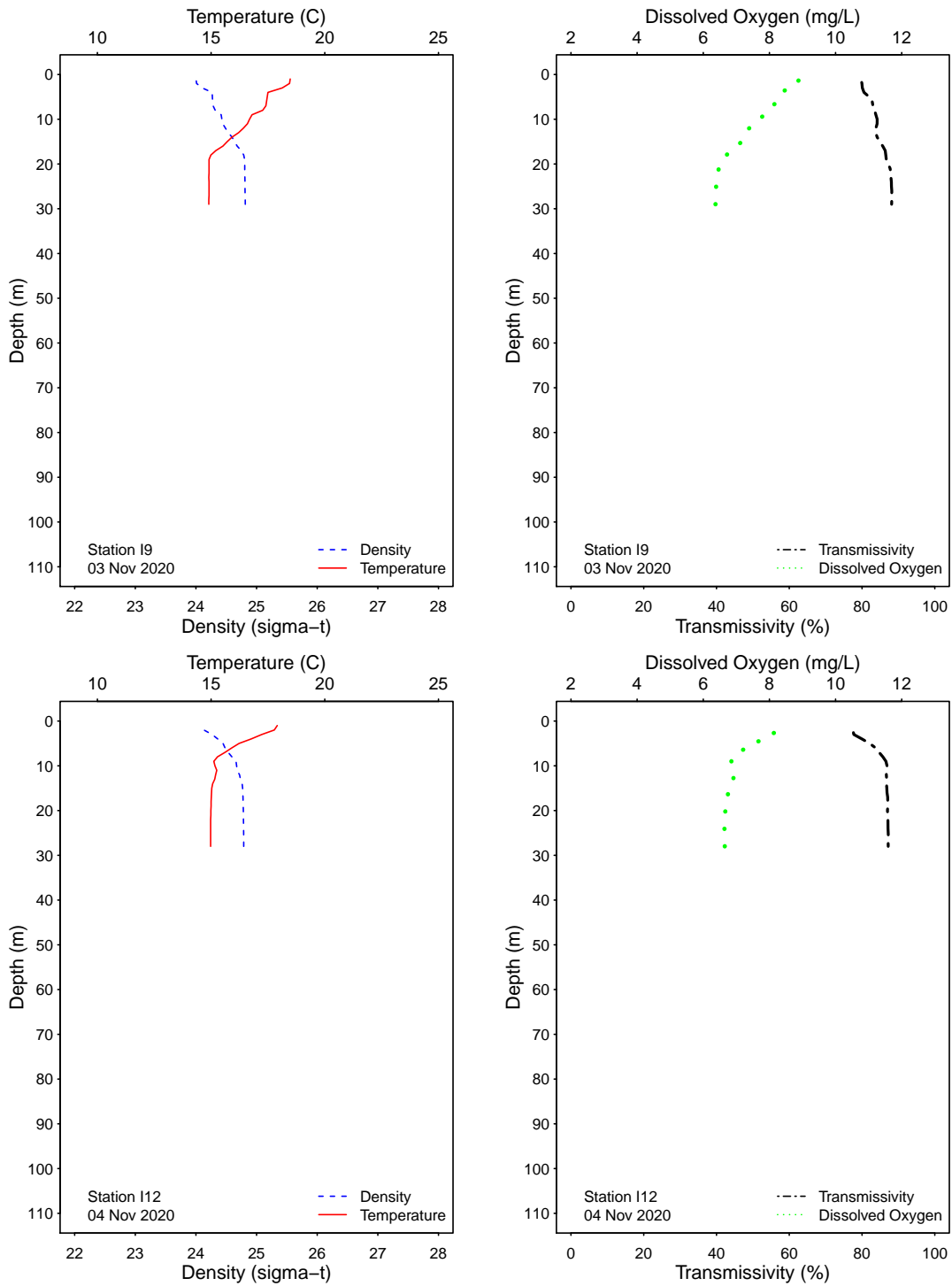


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

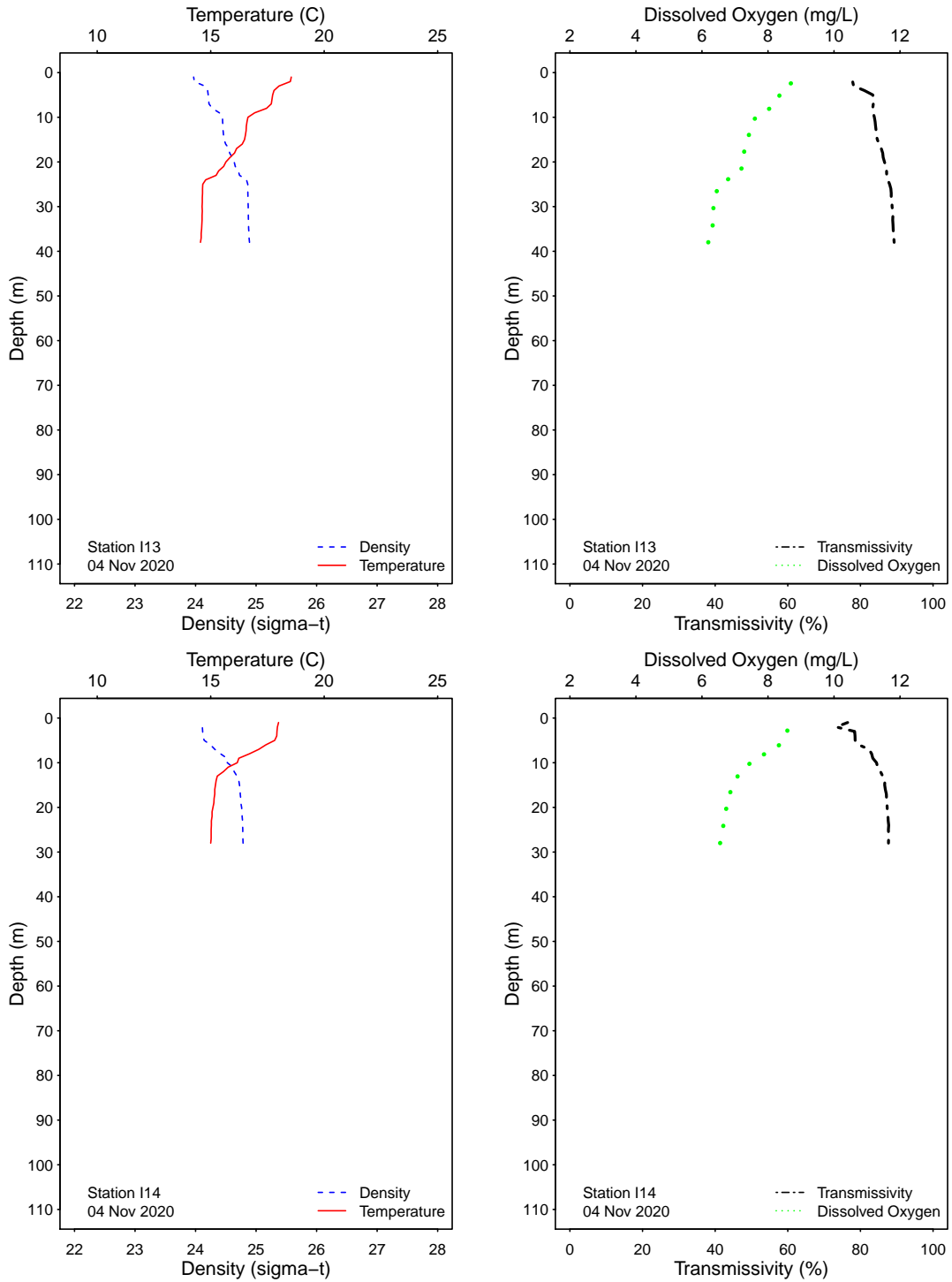


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

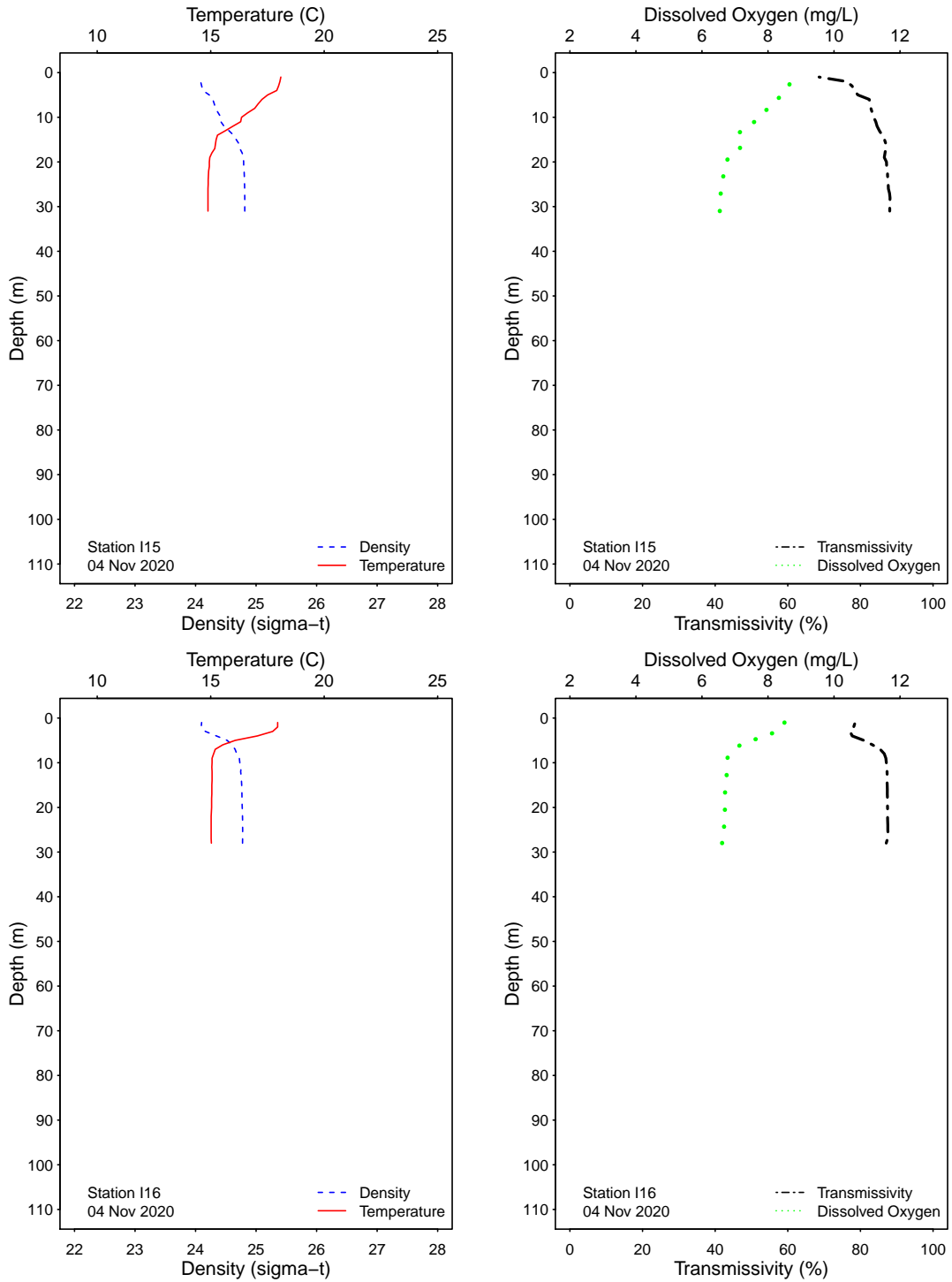


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

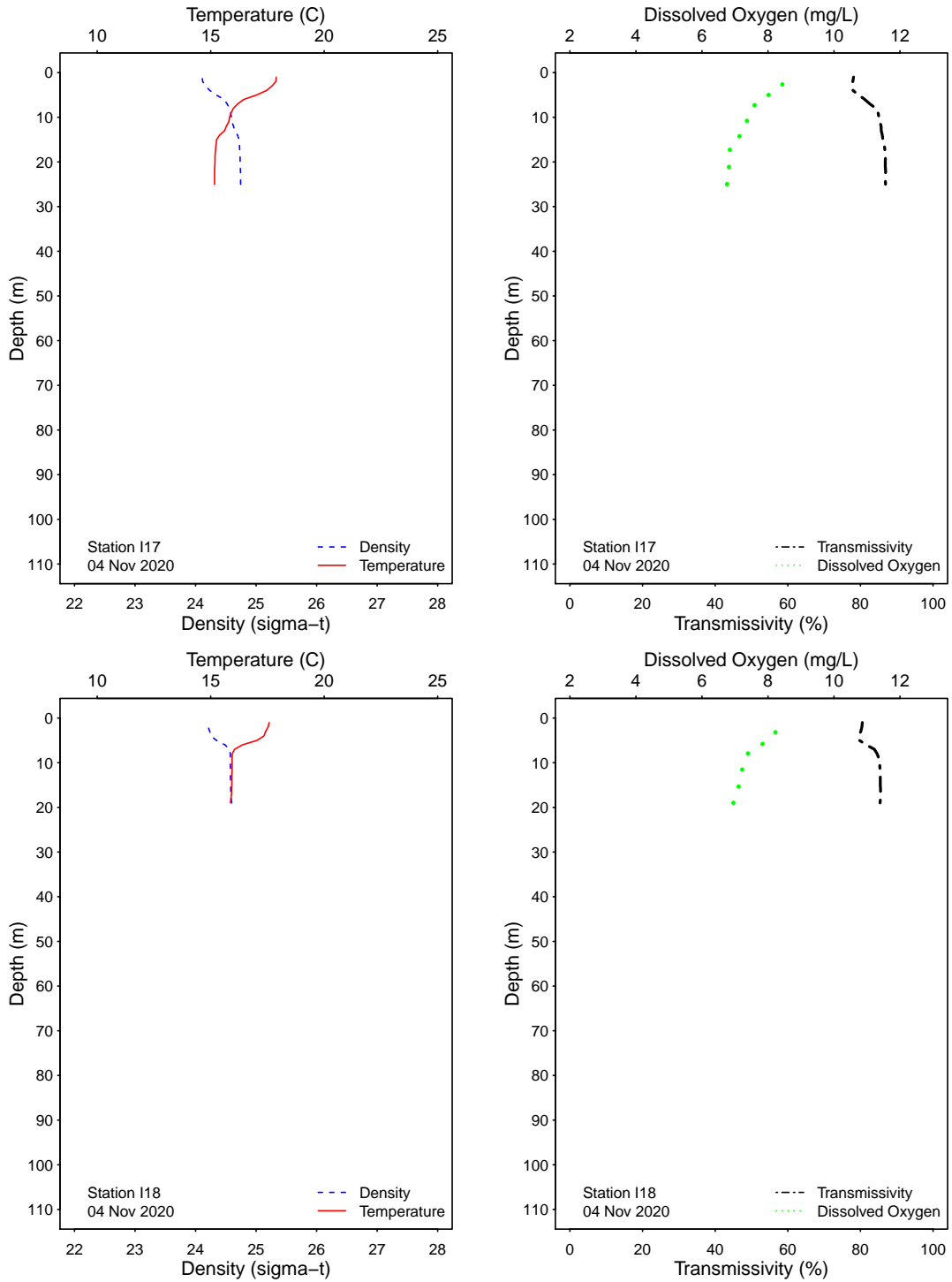


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

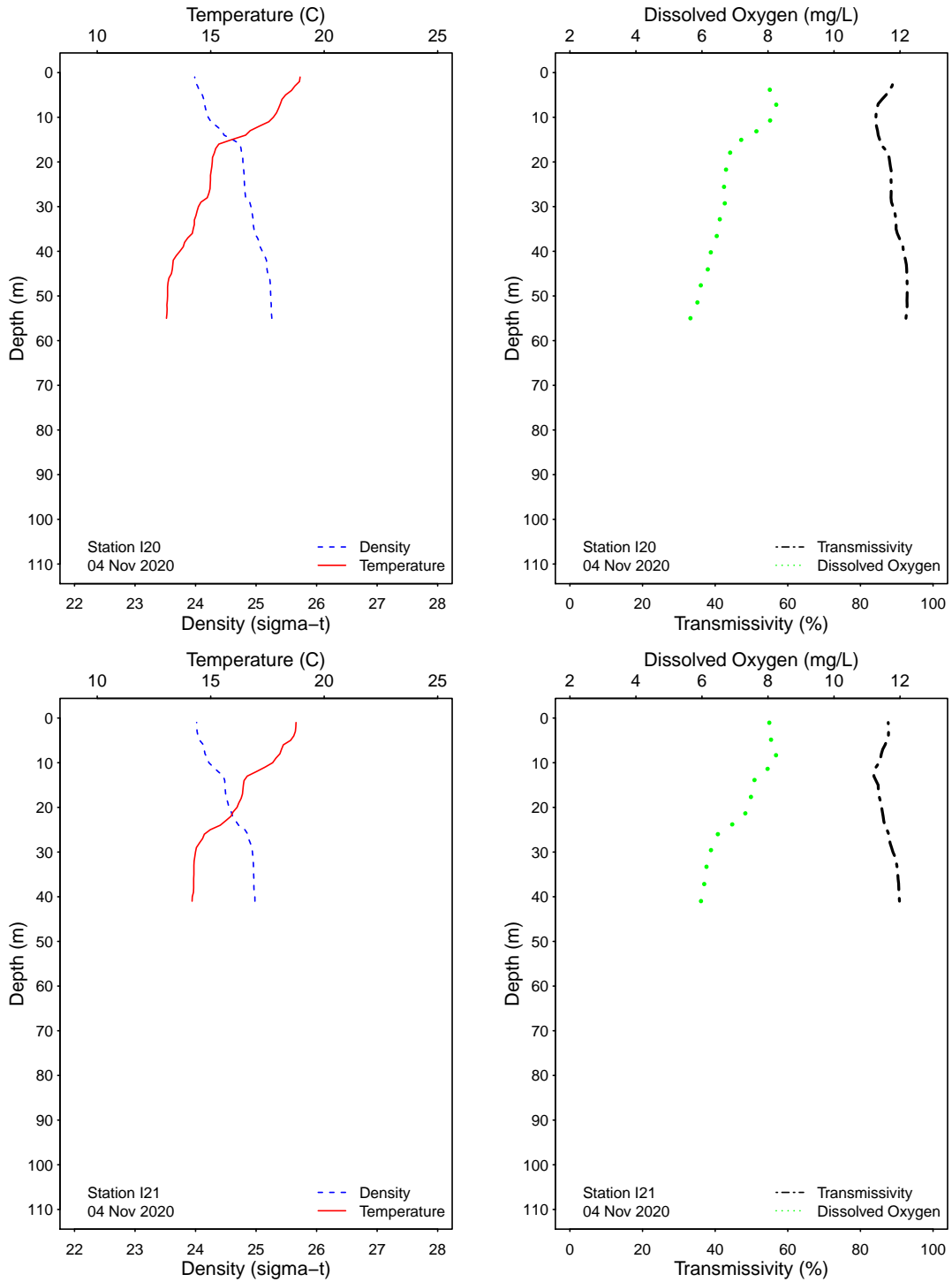


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

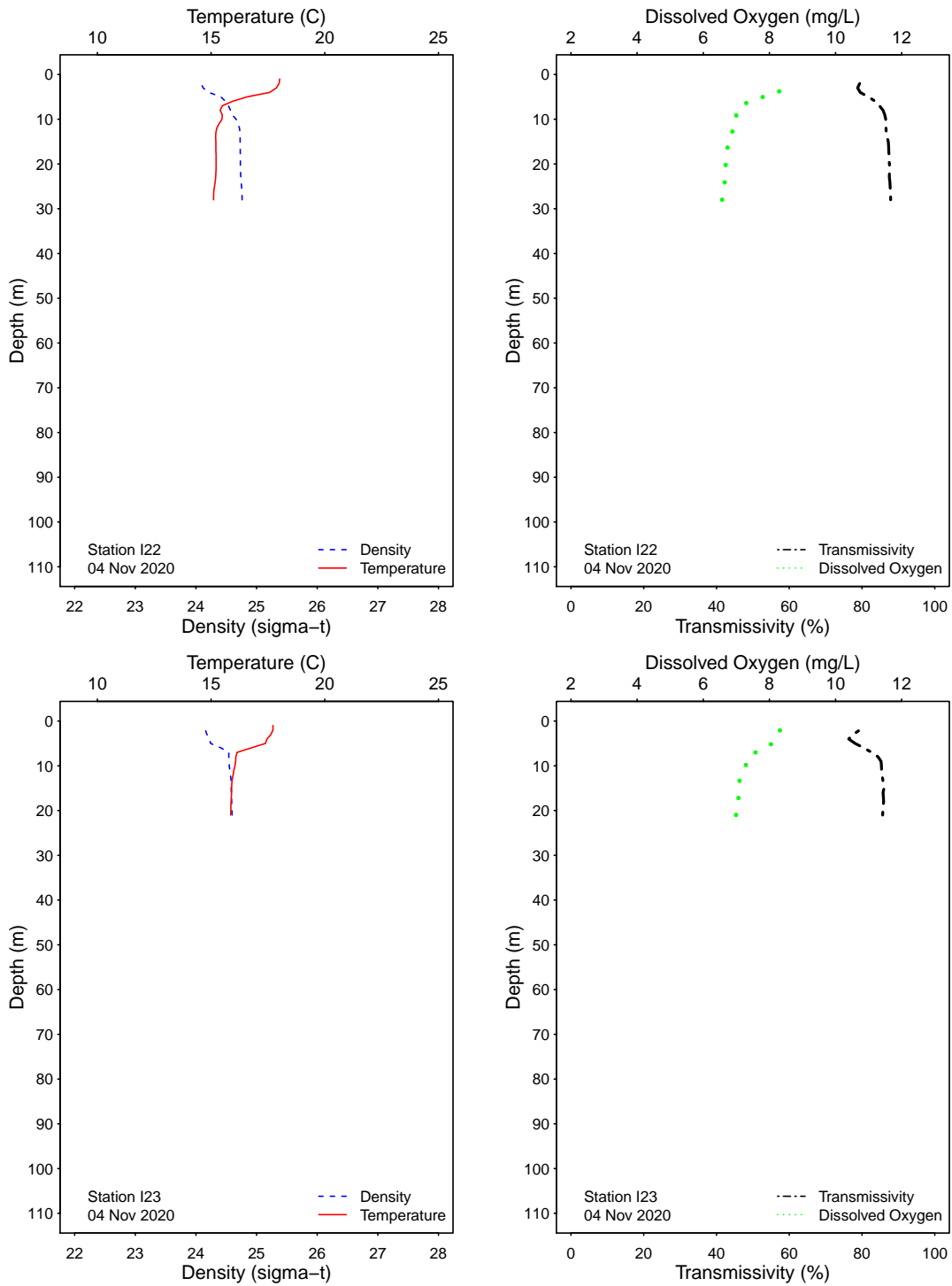


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

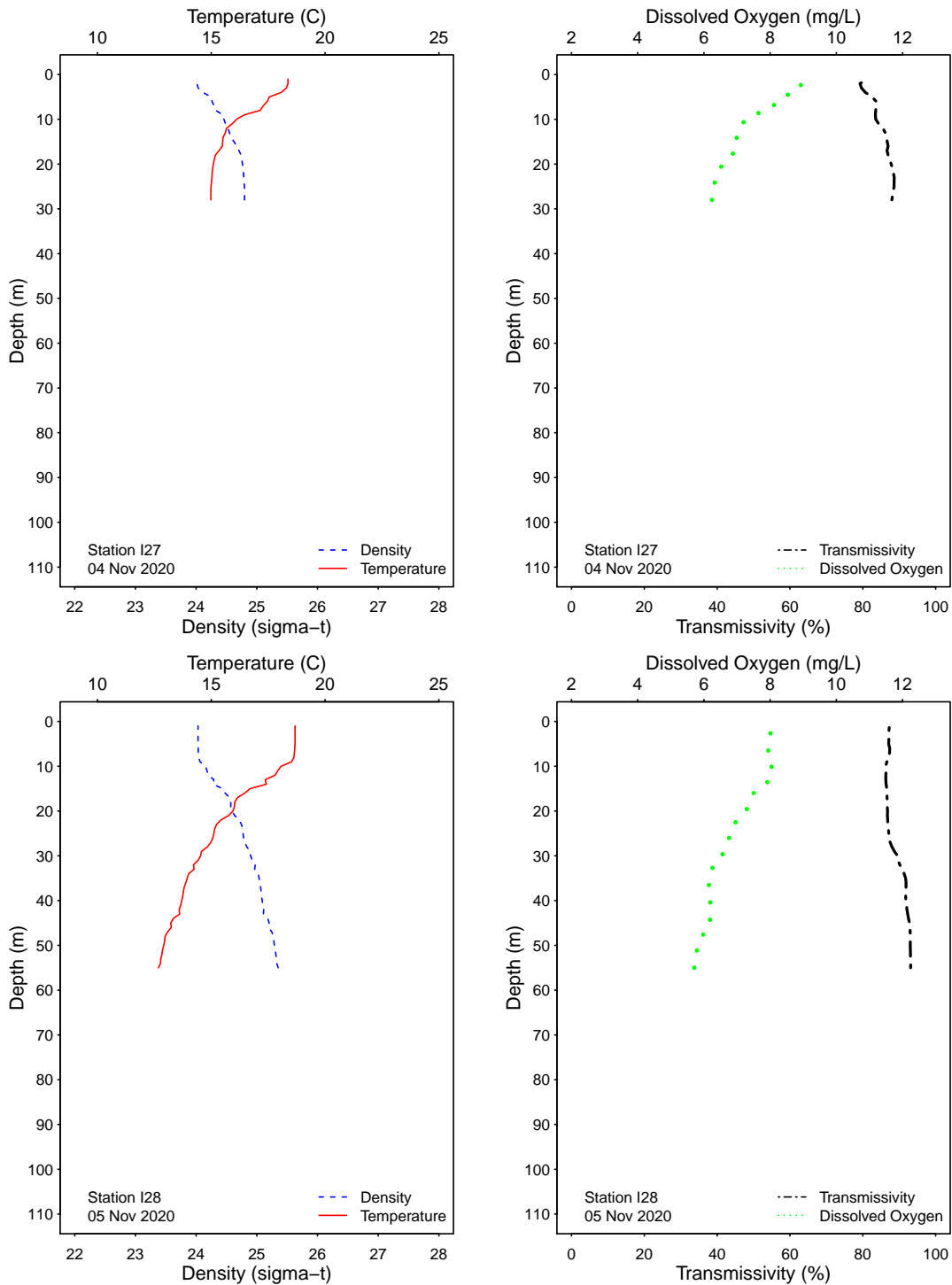


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

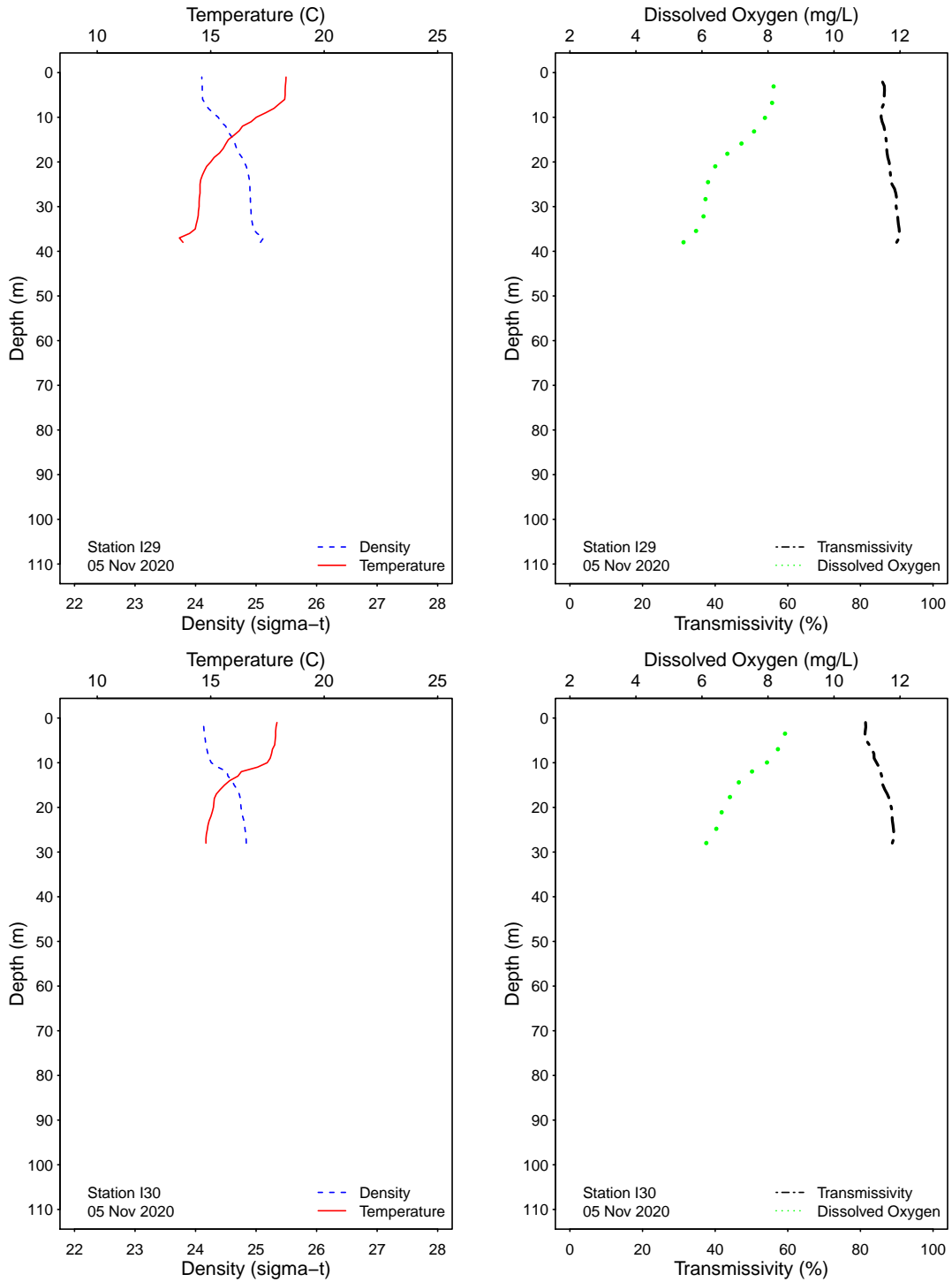


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

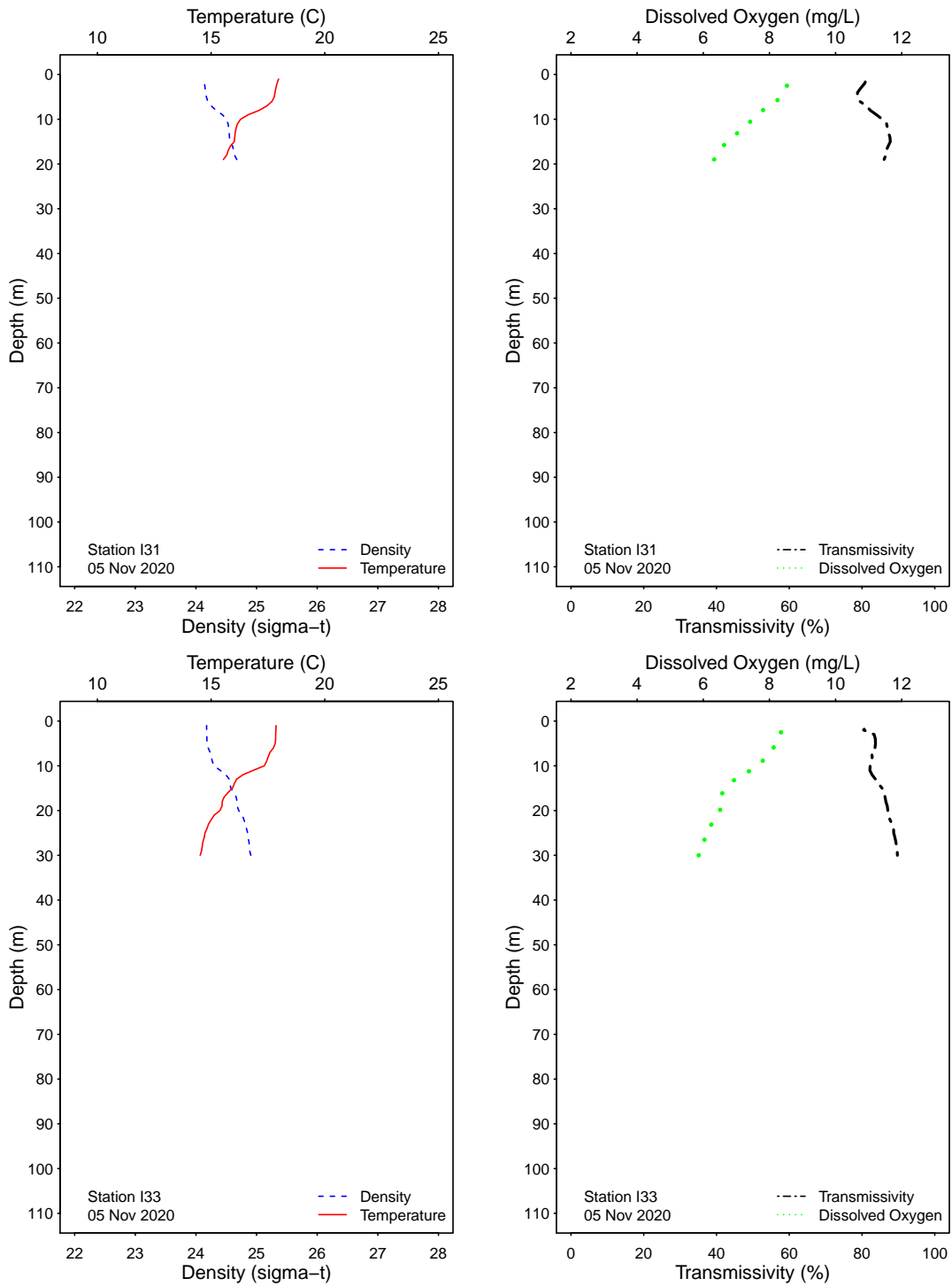


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

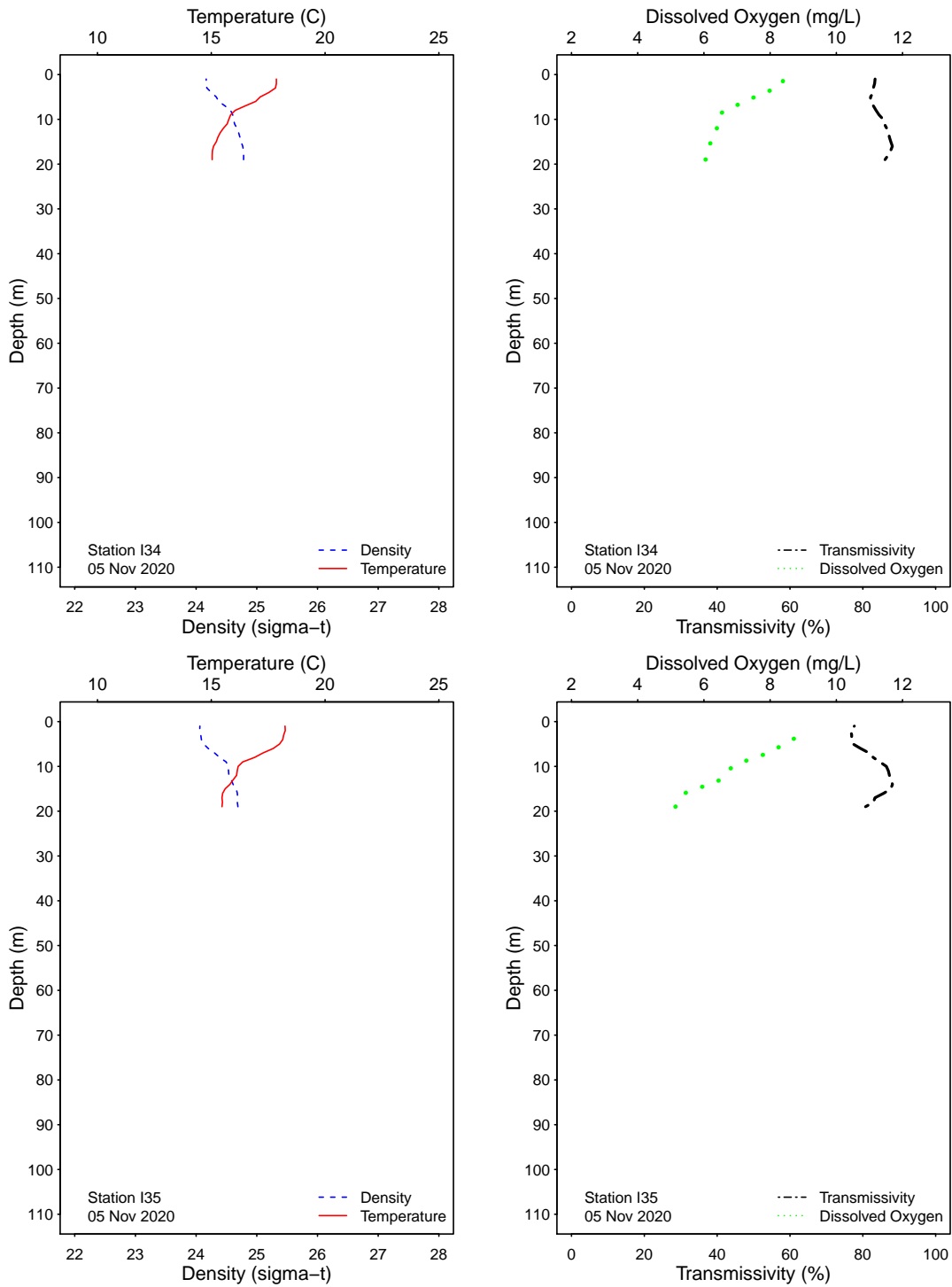


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

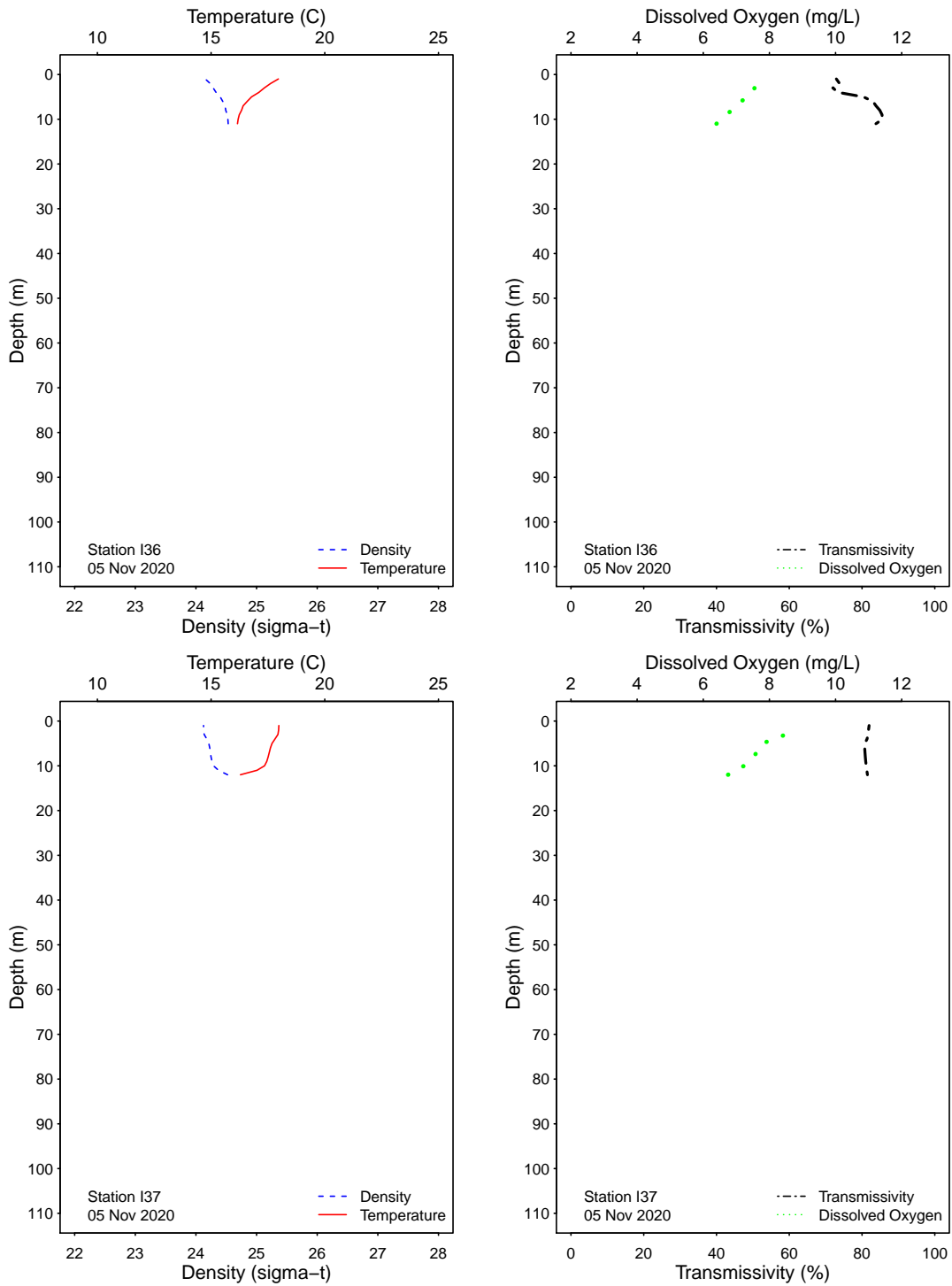


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

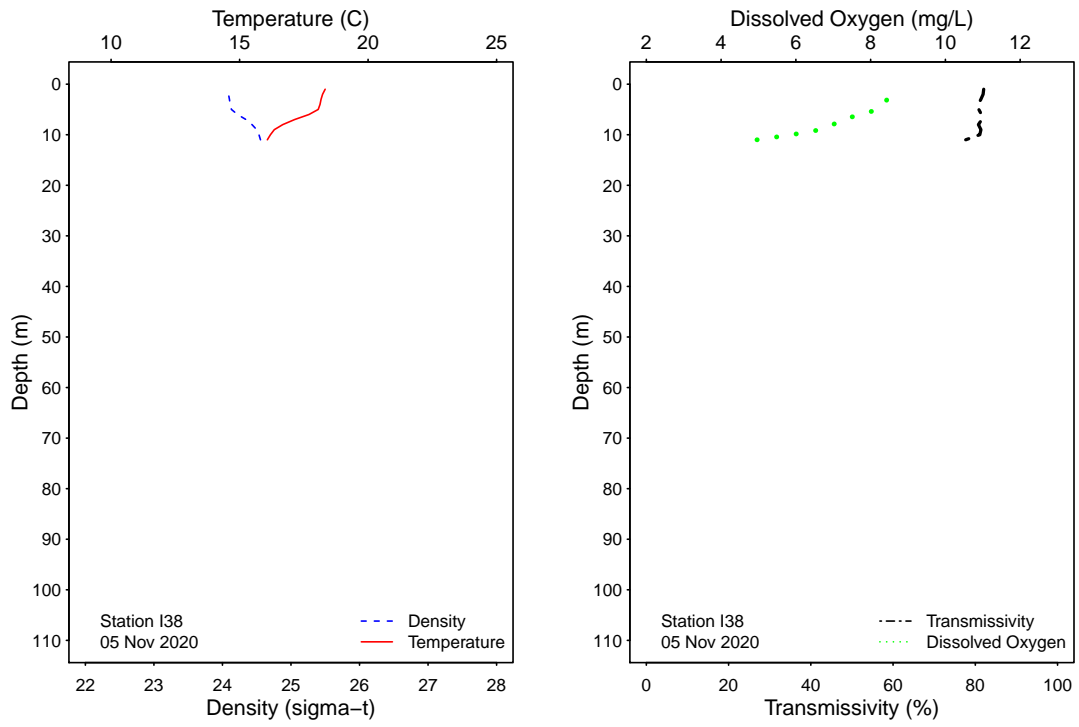


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

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APPENDIX A
Quality Assurance

Table A.1

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

Station	Date	Depth	Analyst	Procedure	Total	Fecal	Enterococcus
I3	03 Nov 2020	18	AE	LAB DUPLICATE	<2	<2	<2
I8	03 Nov 2020	37	BS	LAB DUPLICATE	<2	<2	<2
I9	03 Nov 2020	27	BS	LAB DUPLICATE	<2	<2	<2
I12	04 Nov 2020	18	JF	LAB DUPLICATE	<2	<2	<2
I13	04 Nov 2020	18	JF	LAB DUPLICATE	<2	<2	<2
I14	04 Nov 2020	2	AE	LAB DUPLICATE	<20	<2	<2
I16	04 Nov 2020	18	JF	LAB DUPLICATE	<2	<2	<2
I19	02 Nov 2020	6	BS	LAB DUPLICATE	30e	6e	20e
I19	11 Nov 2020	6	BS	LAB DUPLICATE	100e	6e	<2
I19	17 Nov 2020	6	BS	LAB DUPLICATE	2e	<2	2e
I19	23 Nov 2020	6	AE	LAB DUPLICATE	<2	<2	<2
I20	04 Nov 2020	55	AE	LAB DUPLICATE	<20	<2	<2
I30	05 Nov 2020	27	AR	LAB DUPLICATE	2e	<2	<2
I36	05 Nov 2020	11	BS	FIELD DUPLICATE	<2	<2	<2
I36	05 Nov 2020	11	JF	LAB DUPLICATE	<2	<2	<2
I40	02 Nov 2020	6	AE	LAB DUPLICATE	12e	<2	4e
I40	11 Nov 2020	6	BS	LAB DUPLICATE	3000e	300e	8e
I40	17 Nov 2020	6	AE	LAB DUPLICATE	<20	10e	<2
I40	23 Nov 2020	6	AE	LAB DUPLICATE	<2	<2	<2
S12	03 Nov 2020		JF	FIELD DUPLICATE	20e	<2	<2
S12	03 Nov 2020		JF	LAB DUPLICATE	<20	4e	4e
S12	10 Nov 2020		JF	FIELD DUPLICATE	4e	2e	<2
S12	10 Nov 2020		JF	LAB DUPLICATE	<2	4e	<2
S12	17 Nov 2020		AR	FIELD DUPLICATE	40e	6e	2e
S12	17 Nov 2020		AR	LAB DUPLICATE	<20	<2	ns
S12	24 Nov 2020		AE	FIELD DUPLICATE	<2	<2	<2
S12	24 Nov 2020		AE	LAB DUPLICATE	<2	<2	<2

ns = not sampled

ND = no data

APPENDIX B

New 2019 Ocean Plan Water Quality Objectives

Shore Stations

Table B.1

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Nov 2020	4	3	3	2	6	2	4	2
02 Nov 2020	4	3	3	2	6	2	4	2
03 Nov 2020	5	3	3	3	5	3	5	3
04 Nov 2020	5	3	3	3	5	3	5	3
05 Nov 2020	5	3	3	3	5	3	5	3
06 Nov 2020	5	3	3	3	5	3	5	3
07 Nov 2020	5	3	3	3	5	3	5	3
08 Nov 2020	5	3	3	3	5	3	5	3
09 Nov 2020	5	3	3	3	5	3	5	3
10 Nov 2020	10	14	3	3	5	8	5	3
11 Nov 2020	10	14	3	3	5	8	5	3
12 Nov 2020	13	17	3	3	5	9	5	3
13 Nov 2020	13	17	3	3	5	9	5	3
14 Nov 2020	13	17	3	3	5	9	5	3
15 Nov 2020	13	17	3	3	5	9	5	3
16 Nov 2020	13	17	3	3	5	9	5	3
17 Nov 2020	9	14	3	3	4	9	5	3
18 Nov 2020	9	14	3	3	4	9	5	3
19 Nov 2020	9	14	3	3	4	9	5	3
20 Nov 2020	9	14	3	3	4	9	5	3
21 Nov 2020	9	14	3	3	4	9	5	3
22 Nov 2020	9	14	3	3	4	9	5	3
23 Nov 2020	9	14	3	3	4	9	5	3
24 Nov 2020	9	14	3	3	4	9	5	3
25 Nov 2020	9	14	3	3	4	9	5	3
26 Nov 2020	9	14	3	3	4	9	5	3
27 Nov 2020	9	14	3	3	4	9	5	3
28 Nov 2020	9	14	3	3	4	9	5	3
29 Nov 2020	9	14	3	3	4	9	5	3
30 Nov 2020	9	14	3	3	4	9	5	3

* Geometric mean calculated using n<5

Table B.2

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

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

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Kelp Stations

Table B.3

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

Date	I19	I24	I25	I26	I32	I39	I40
01 Nov 2020	3	2	2	2	2	2	2
02 Nov 2020	4	2	2	2	2	2	2
03 Nov 2020	4	2	2	2	2	2	2
04 Nov 2020	4	2	2	2	2	2	2
05 Nov 2020	4	2	2	2	2	2	2
06 Nov 2020	4	2	2	2	2	2	2
07 Nov 2020	4	2	2	2	2	2	2
08 Nov 2020	4	2	2	2	2	2	2
09 Nov 2020	5	2	2	2	2	2	2
10 Nov 2020	5	2	2	2	2	2	2
11 Nov 2020	4	3	3	2	2	2	2
12 Nov 2020	4	3	3	2	2	2	2
13 Nov 2020	4	3	3	2	2	2	2
14 Nov 2020	4	3	3	2	2	2	2
15 Nov 2020	4	3	3	2	2	2	2
16 Nov 2020	3	2	3	2	2	2	2
17 Nov 2020	3	2	3	2	2	2	2
18 Nov 2020	3	2	3	2	2	2	2
19 Nov 2020	3	2	3	2	2	2	2
20 Nov 2020	3	2	3	2	2	2	2
21 Nov 2020	3	2	3	2	2	2	2
22 Nov 2020	3	2	3	2	2	2	2
23 Nov 2020	3	2	3	2	2	2	2
24 Nov 2020	3	2	3	2	2	2	2
25 Nov 2020	3	2	3	2	2	2	2
26 Nov 2020	3	2	3	2	2	2	2
27 Nov 2020	3	2	3	2	2	2	2
28 Nov 2020	3	2	3	2	2	2	2
29 Nov 2020	3	2	3	2	2	2	2
30 Nov 2020	3	2	3	2	2	2	2

* Geometric mean calculated using n<5

Table B.4

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

Date	I19	I24	I25	I26	I32	I39	I40
November	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Offshore Stations

Table B.5

Summary of compliance with the Ocean Plan's Statistical Threshold Value standard for Enterococcus bacteria at the SBOO offshore stations within three nautical miles of shore. Values 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	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

