

SOUTH BAY OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

SOUTH BAY WATER RECLAMATION PLANT

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

MAY 2021

Environmental Monitoring and Technical Services
2392 Kincaid Road • Mail Station 45A • San Diego, CA 92101
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June 31, 2021

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

Attention: POTW Compliance Unit

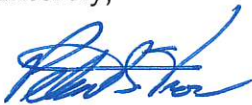
Dear Mr. Gibson:

Enclosed is the May 2021 Monthly Receiving Waters Monitoring Report for the Point Loma Ocean Outfall, Point Loma Wastewater Treatment Plant as required per Order No. R9-2017-0007, NPDES Permit No. CA0107409.

This report includes raw ocean monitoring data and summaries of water quality parameters and ocean conditions measured during the month for the Point Loma outfall region. Also included are summaries of compliance with the bacterial water-contact standards specified in the California Ocean Plan.

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 chromomorphpic 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 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 2021 Quality Assurance Report, which will be completed in March 2022.

SUMMARY OF RESULTS

As of October 2020, new 2019 Ocean Plan Water Quality Objectives are included for a six-week rolling geometric mean of *Enterococcus* density, which shall not 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 May, four 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 30-day geometric mean standards for total coliform, fecal coliform and *Enterococcus* were exceeded at station S5.
 - The 30-day geometric mean standard for *Enterococcus* was also exceeded at stations S6 S10, and S11.
- 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 May.
- Notable observations included a sewage-like odor at station S5 on one or more days during May.
- 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 May 3, 10, 18, and 27.
- During May, all of the 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 fecal coliform was exceeded at station I24.
 - The SSM standard for *Enterococcus* was exceeded at stations I19, I24, I25, I26, I32, I39, and I40..
 - The SSM standard that states total coliform density shall not exceed 1,000 per 100 mL when the fecal coliform/total coliform ratio exceeds 0.1 was exceeded at stations I19 and I24.
- Water column temperatures ranged from 11.09 to 17.65°C. The difference between surface and bottom waters ranged from 0.06 to 5.92°C.
- Concentrations of chlorophyll *a* ranged from 0.71 to 25.83 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., May 4, 5, 6).
- During May, each of the offshore stations located within State jurisdictional waters (i.e., I12, I14, I16, I18, I22, I23, I33, I36–I38) was in compliance with the various 2015 Ocean Plan water contact 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 at stations I11 and I5 on one or more days during May.

- Water column temperatures ranged from 10.38 to 17.64°C at the offshore sites. The difference between surface and bottom waters ranged from 1.98 to 7.07°C.
- Chlorophyll *a* concentrations ranged from 0.50 to 27.28 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

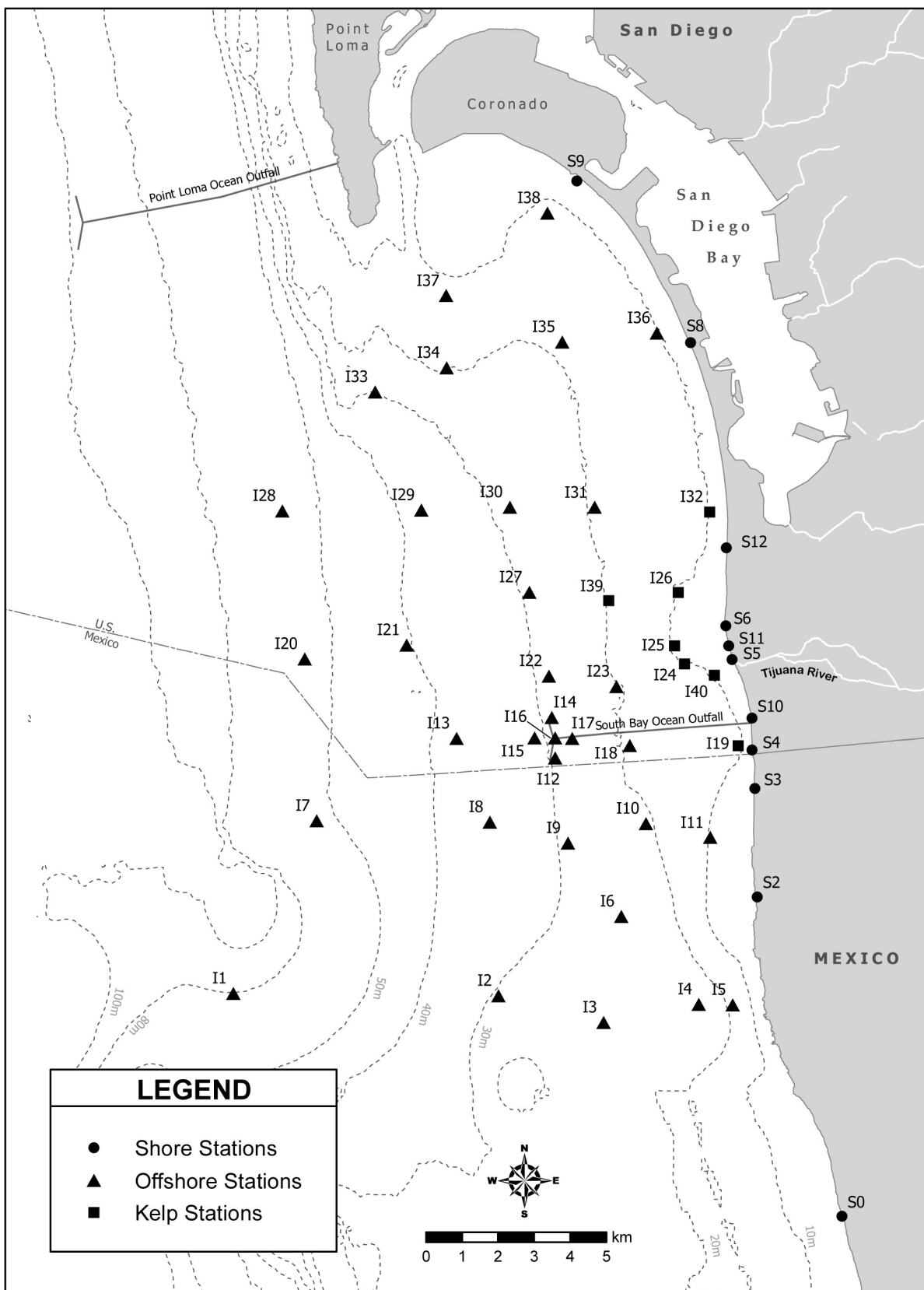


Figure 1.1 Station Map

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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 May 2021	70	6075	165	6	112	112	343	20
02 May 2021	65	5563	66	6	112	134	159	20
03 May 2021	65	5563	66	6	112	134	159	20
04 May 2021	72	3735	23	8	50	140	62	30
05 May 2021	72	3735	23	8	50	140	62	30
06 May 2021	34	3230	24	11	36	68	49	34
07 May 2021	34	3230	24	11	36	68	49	34
08 May 2021	39	2704	24	11	36	86	49	34
09 May 2021	39	2704	24	11	36	86	49	34
10 May 2021	39	2530	24	11	36	86	49	34
11 May 2021	42	1144	17	8	20	58	30	19
12 May 2021	42	823	17	8	20	58	30	19
13 May 2021	23	538	11	6	11	24	12	19
14 May 2021	23	538	11	6	11	24	12	19
15 May 2021	23	306	11	6	11	28	12	19
16 May 2021	23	306	11	6	11	28	12	19
17 May 2021	23	139	11	6	11	28	12	19
18 May 2021	14	126	14	8	13	26	13	19
19 May 2021	14	48	14	8	13	26	13	19
20 May 2021	23	34	22	11	6	28	22	19
21 May 2021	23	34	22	11	6	28	22	19
22 May 2021	23	34	22	11	6	28	22	19
23 May 2021	23	34	22	11	6	28	22	19
24 May 2021	23	34	22	11	6	28	22	19
25 May 2021	22	30	22	13	8	26	21	19
26 May 2021	22	30	22	13	8	26	21	19
27 May 2021	23	28	22	11	6	28	22	19
28 May 2021	23	28	22	11	6	28	22	19
29 May 2021	23	28	22	11	6	28	22	19
30 May 2021	23	28	22	11	6	28	22	19
31 May 2021	23	28	22	11	6	28	22	19

* 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 May 2021	20	2751	53	2	4	38	132	2
02 May 2021	21	2406	18	2	4	40	53	2
03 May 2021	21	2406	18	2	4	40	53	2
04 May 2021	19	1318	5	2	3	38	15	2
05 May 2021	19	1318	5	2	3	38	15	2
06 May 2021	9	1057	7	2	4	17	12	3
07 May 2021	9	1057	7	2	4	17	12	3
08 May 2021	7	807	7	2	4	19	12	3
09 May 2021	7	807	7	2	4	19	12	3
10 May 2021	7	776	7	2	4	19	12	3
11 May 2021	6	400	5	2	3	13	9	2
12 May 2021	6	262	5	2	3	13	9	2
13 May 2021	4	151	3	2	4	4	4	3
14 May 2021	4	151	3	2	4	4	4	3
15 May 2021	4	73	3	2	4	5	4	3
16 May 2021	4	73	3	2	4	5	4	3
17 May 2021	4	26	3	2	4	5	4	3
18 May 2021	3	19	3	2	4	4	3	2
19 May 2021	3	6	3	2	4	4	3	2
20 May 2021	4	5	4	2	2	4	4	3
21 May 2021	4	5	4	2	2	4	4	3
22 May 2021	4	5	4	2	2	4	4	3
23 May 2021	4	5	4	2	2	4	4	3
24 May 2021	4	5	4	2	2	4	4	3
25 May 2021	5	4	3	2	2	4	4	3
26 May 2021	5	4	3	2	2	4	4	3
27 May 2021	6	4	4	2	2	5	4	4
28 May 2021	6	4	4	2	2	5	4	4
29 May 2021	6	4	4	2	2	5	4	4
30 May 2021	6	4	4	2	2	5	4	4
31 May 2021	6	4	4	2	2	5	4	4

* 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 May 2021	11	2841	72	4	4	37	115	3
02 May 2021	13	2520	35	4	4	45	59	3
03 May 2021	13	2520	35	4	4	45	59	3
04 May 2021	15	1466	16	4	4	43	22	4
05 May 2021	15	1466	16	4	4	43	22	4
06 May 2021	9	1211	22	4	4	27	24	4
07 May 2021	9	1211	22	4	4	27	24	4
08 May 2021	7	962	22	4	4	26	24	4
09 May 2021	7	962	22	4	4	26	24	4
10 May 2021	7	1080	22	4	4	26	24	4
11 May 2021	9	643	16	4	4	21	17	4
12 May 2021	9	464	16	4	4	21	17	4
13 May 2021	7	309	11	4	4	7	10	4
14 May 2021	7	309	11	4	4	7	10	4
15 May 2021	7	183	3	4	4	5	3	4
16 May 2021	7	183	3	4	4	5	3	4
17 May 2021	7	91	4	4	4	5	3	4
18 May 2021	5	71	4	4	6	4	3	4
19 May 2021	5	30	4	4	6	4	3	4
20 May 2021	7	11	5	4	4	5	3	4
21 May 2021	7	11	5	4	4	5	3	4
22 May 2021	7	11	5	4	4	5	3	4
23 May 2021	7	11	5	4	4	5	3	4
24 May 2021	7	11	5	4	4	5	3	4
25 May 2021	7	8	4	5	3	5	3	4
26 May 2021	7	8	4	5	3	5	3	4
27 May 2021	9	8	5	3	4	6	3	4
28 May 2021	9	8	5	3	4	6	3	4
29 May 2021	9	8	5	3	4	6	3	4
30 May 2021	9	8	5	3	4	6	3	4
31 May 2021	9	8	5	3	4	6	3	4

* Geometric mean calculated using n<5

Table 2.4

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
04 May 2021	IC	IC	IC	IC	IC	IC	IC	IC
11 May 2021	IC	IC	IC	IC	IC	IC	IC	IC
18 May 2021	IC	IC	IC	IC	IC	IC	IC	IC
25 May 2021	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.5

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
04 May 2021	IC	IC	IC	IC	IC	IC	IC	IC
11 May 2021	IC	IC	IC	IC	IC	IC	IC	IC
18 May 2021	IC	IC	IC	IC	IC	IC	IC	IC
25 May 2021	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.6

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
04 May 2021	IC	IC	IC	IC	IC	IC	IC	IC
11 May 2021	IC	IC	IC	IC	IC	IC	IC	IC
18 May 2021	IC	IC	IC	IC	IC	IC	IC	IC
25 May 2021	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.7

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
04 May 2021	IC	IC	IC	IC	IC	IC	IC	IC
11 May 2021	IC	IC	IC	IC	IC	IC	IC	IC
18 May 2021	IC	IC	IC	IC	IC	IC	IC	IC
25 May 2021	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	04 May 2021	1125	640	110	50	0.17
S0	11 May 2021	855	4400	900	440	0.20
S0	18 May 2021	1100	<20	<2	<2	0.10
S0	25 May 2021	950	480	74	110	0.15
S2	04 May 2021	1225	>16000	2200e	4400	0.14
S2	11 May 2021	945	9000	400	42	0.04
S2	18 May 2021	1210	6e	<2	4e	0.33
S2	25 May 2021	905	28e	<2	4e	0.07
S3	04 May 2021	1155	140e	2e	18e	0.01
S3	11 May 2021	1025	200e	12e	74	0.06
S3	18 May 2021	1145	10000	3600e	4400	0.36
S3	25 May 2021	835	7000	340e	36e	0.05
S4	04 May 2021	1054	120e	10e	26e	0.08
S4	11 May 2021	941	60e	4e	24e	0.07
S4	18 May 2021	1021	<2	<2	<2	1.00
S4	25 May 2021	1013	20e	<20	6e	1.00
S5	04 May 2021	933	200e	16e	18e	0.08
S5	11 May 2021	750	2e	<2	6e	1.00
S5	18 May 2021	844	80e	4e	16e	0.05
S5	25 May 2021	1127	20e	<2	<2	0.10
S6	04 May 2021	952	80e	10e	20e	0.12
S6	11 May 2021	816	4e	2e	2e	0.50
S6	18 May 2021	858	40e	6e	8e	0.15
S6	25 May 2021	1147	<20	<2	2e	0.10
S8	04 May 2021	845	<20	4e	4e	0.20
S8	11 May 2021	1108	2e	<2	<2	1.00
S8	18 May 2021	809	<20	<2	<2	0.10
S8	25 May 2021	839	20e	<2	6e	0.10
S9	04 May 2021	819	2e	<2	<2	1.00
S9	11 May 2021	1135	<2	<2	<2	1.00
S9	18 May 2021	751	<20	4e	<20	0.20
S9	25 May 2021	811	<20	<2	2e	0.10
S10	04 May 2021	1045	180e	28e	30e	0.16
S10	11 May 2021	928	8e	<2	6e	0.25
S10	18 May 2021	1012	20e	2e	<2	0.10
S10	25 May 2021	1033	20e	4e	4e	0.20
S11	04 May 2021	947	140e	<20	10e	0.14
S11	11 May 2021	803	4e	<2	<2	0.50
S11	18 May 2021	852	<20	2e	<2	0.10
S11	25 May 2021	1140	<20	4e	<2	0.20
S12	04 May 2021	917	160e	6e	6e	0.04
S12	11 May 2021	840	<2	<2	4e	1.00
S12	18 May 2021	828	<20	2e	2e	0.10
S12	25 May 2021	908	20e	8e	4e	0.40

ns = not sampled
ND = no data

Table 2.9

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

Station	Date	Parameter	Value
S0	04 May 2021	Arrive Time	1125
S0	04 May 2021	Weather	Sunny
S0	04 May 2021	Wind Speed (kts)	2.3
S0	04 May 2021	Wind Dir	NW
S0	04 May 2021	Animal Life	10 Seagulls
S0	04 May 2021	Floatables	None
S0	04 May 2021	Water Color	Green
S0	04 May 2021	Current Direction	N
S0	04 May 2021	Water Temp (C)	16
S0	04 May 2021	Wave Height Low (ft)	3
S0	04 May 2021	High Tide (ft)	4.25
S0	04 May 2021	High Tide Time	411
S0	04 May 2021	Low Tide (ft)	-0.1
S0	04 May 2021	Low Tide Time	1136
S0	04 May 2021	Comments	Water clear; Kelp; 4 Persons; 0.5 L/sec water flowing from storm drain
S0	11 May 2021	Arrive Time	855
S0	11 May 2021	Weather	Cloudy
S0	11 May 2021	Wind Speed (kts)	2.8
S0	11 May 2021	Wind Dir	SE
S0	11 May 2021	Animal Life	20 Seagulls; 2 Dogs
S0	11 May 2021	Floatables	None
S0	11 May 2021	Water Color	Brown
S0	11 May 2021	Current Direction	S
S0	11 May 2021	Water Temp (C)	15
S0	11 May 2021	Wave Height Low (ft)	2
S0	11 May 2021	High Tide (ft)	3.74
S0	11 May 2021	High Tide Time	1000
S0	11 May 2021	Low Tide (ft)	-0.28
S0	11 May 2021	Low Tide Time	356
S0	11 May 2021	Comments	Water turbid; Kelp; 1.0 L/sec water flowing from storm drain
S0	18 May 2021	Arrive Time	1100
S0	18 May 2021	Weather	Cloudy
S0	18 May 2021	Wind Speed (kts)	3.8
S0	18 May 2021	Wind Dir	NW
S0	18 May 2021	Animal Life	10 Shorebirds
S0	18 May 2021	Floatables	None
S0	18 May 2021	Water Color	Blue
S0	18 May 2021	Current Direction	N
S0	18 May 2021	Water Temp (C)	15
S0	18 May 2021	Wave Height Low (ft)	3
S0	18 May 2021	High Tide (ft)	4.39
S0	18 May 2021	High Tide Time	56
S0	18 May 2021	Low Tide (ft)	0.27
S0	18 May 2021	Low Tide Time	920
S0	18 May 2021	Comments	Water turbid; Kelp; 0.5 L/sec water flowing from storm drain
S0	25 May 2021	Arrive Time	950
S0	25 May 2021	Weather	Cloudy
S0	25 May 2021	Wind Speed (kts)	1.8
S0	25 May 2021	Wind Dir	NW
S0	25 May 2021	Animal Life	5 Seagulls
S0	25 May 2021	Floatables	None
S0	25 May 2021	Water Color	Green

Station	Date	Parameter	Value
S0	25 May 2021	Current Direction	N
S0	25 May 2021	Water Temp (C)	13
S0	25 May 2021	Wave Height Low (ft)	4
S0	25 May 2021	High Tide (ft)	4.19
S0	25 May 2021	High Tide Time	917
S0	25 May 2021	Low Tide (ft)	-1.12
S0	25 May 2021	Low Tide Time	312
S0	25 May 2021	Comments	Water clear; Kelp; 7 Persons; 0.5 L/sec water flowing from storm drain
S2	04 May 2021	Arrive Time	1225
S2	04 May 2021	Weather	Sunny
S2	04 May 2021	Wind Speed (kts)	2
S2	04 May 2021	Wind Dir	NW
S2	04 May 2021	Animal Life	5 Dogs; 5 Seagulls
S2	04 May 2021	Floatables	None
S2	04 May 2021	Water Color	Green
S2	04 May 2021	Current Direction	N
S2	04 May 2021	Water Temp (C)	16
S2	04 May 2021	Wave Height Low (ft)	3
S2	04 May 2021	High Tide (ft)	4.25
S2	04 May 2021	High Tide Time	411
S2	04 May 2021	Low Tide (ft)	-0.1
S2	04 May 2021	Low Tide Time	1136
S2	04 May 2021	Comments	Water clear; Kelp; 20 Persons; 0.5 L/sec water flowing from storm drain
S2	11 May 2021	Arrive Time	945
S2	11 May 2021	Weather	Cloudy
S2	11 May 2021	Wind Speed (kts)	1.9
S2	11 May 2021	Wind Dir	SE
S2	11 May 2021	Animal Life	20 Seagulls; 2 Dogs
S2	11 May 2021	Floatables	None
S2	11 May 2021	Water Color	Green
S2	11 May 2021	Current Direction	S
S2	11 May 2021	Water Temp (C)	16
S2	11 May 2021	Wave Height Low (ft)	2
S2	11 May 2021	High Tide (ft)	3.74
S2	11 May 2021	High Tide Time	1000
S2	11 May 2021	Low Tide (ft)	-0.28
S2	11 May 2021	Low Tide Time	356
S2	11 May 2021	Comments	Water turbid; Kelp; 1.0 L/sec water flowing from storm drain
S2	18 May 2021	Arrive Time	1210
S2	18 May 2021	Weather	Cloudy
S2	18 May 2021	Wind Speed (kts)	1.2
S2	18 May 2021	Wind Dir	NW
S2	18 May 2021	Animal Life	10 Shorebirds
S2	18 May 2021	Floatables	None
S2	18 May 2021	Water Color	Blue
S2	18 May 2021	Current Direction	N
S2	18 May 2021	Water Temp (C)	15
S2	18 May 2021	Wave Height Low (ft)	3
S2	18 May 2021	High Tide (ft)	4.39
S2	18 May 2021	High Tide Time	56
S2	18 May 2021	Low Tide (ft)	0.27
S2	18 May 2021	Low Tide Time	920
S2	18 May 2021	Comments	Water clear; Kelp; 12 Persons; No flow from storm drain
S2	25 May 2021	Arrive Time	905
S2	25 May 2021	Weather	Cloudy

Station	Date	Parameter	Value
S2	25 May 2021	Wind Speed (kts)	1.9
S2	25 May 2021	Wind Dir	NW
S2	25 May 2021	Animal Life	10 Seagulls; 1 Dog
S2	25 May 2021	Floatables	None
S2	25 May 2021	Water Color	Green
S2	25 May 2021	Current Direction	N
S2	25 May 2021	Water Temp (C)	13
S2	25 May 2021	Wave Height Low (ft)	4
S2	25 May 2021	High Tide (ft)	4.19
S2	25 May 2021	High Tide Time	917
S2	25 May 2021	Low Tide (ft)	-1.12
S2	25 May 2021	Low Tide Time	312
S2	25 May 2021	Comments	Water clear; Kelp; 5 Persons; No flow from storm drain
S3	04 May 2021	Arrive Time	1155
S3	04 May 2021	Weather	Sunny
S3	04 May 2021	Wind Speed (kts)	2.8
S3	04 May 2021	Wind Dir	NW
S3	04 May 2021	Animal Life	10 Seagulls
S3	04 May 2021	Floatables	None
S3	04 May 2021	Water Color	Green
S3	04 May 2021	Current Direction	N
S3	04 May 2021	Water Temp (C)	16
S3	04 May 2021	Wave Height Low (ft)	3
S3	04 May 2021	High Tide (ft)	4.25
S3	04 May 2021	High Tide Time	411
S3	04 May 2021	Low Tide (ft)	-0.1
S3	04 May 2021	Low Tide Time	1136
S3	04 May 2021	Comments	Water clear; Kelp; 4 Persons; 0.5 L/sec water flowing from storm drain
S3	11 May 2021	Arrive Time	1025
S3	11 May 2021	Weather	Cloudy
S3	11 May 2021	Wind Speed (kts)	2.3
S3	11 May 2021	Wind Dir	SE
S3	11 May 2021	Animal Life	20 Seagulls; 5 Dogs
S3	11 May 2021	Floatables	None
S3	11 May 2021	Water Color	Green
S3	11 May 2021	Current Direction	S
S3	11 May 2021	Water Temp (C)	15
S3	11 May 2021	Wave Height Low (ft)	2
S3	11 May 2021	High Tide (ft)	3.74
S3	11 May 2021	High Tide Time	1000
S3	11 May 2021	Low Tide (ft)	-0.28
S3	11 May 2021	Low Tide Time	356
S3	11 May 2021	Comments	Water turbid; Kelp; No flow from storm drain
S3	18 May 2021	Arrive Time	1145
S3	18 May 2021	Weather	Cloudy
S3	18 May 2021	Wind Speed (kts)	1.3
S3	18 May 2021	Wind Dir	NW
S3	18 May 2021	Animal Life	10 Shorebirds; 1 Dog
S3	18 May 2021	Floatables	None
S3	18 May 2021	Water Color	Blue
S3	18 May 2021	Current Direction	N
S3	18 May 2021	Water Temp (C)	15
S3	18 May 2021	Wave Height Low (ft)	3
S3	18 May 2021	High Tide (ft)	4.39
S3	18 May 2021	High Tide Time	56
S3	18 May 2021	Low Tide (ft)	0.27
S3	18 May 2021	Low Tide Time	920

Station	Date	Parameter	Value
S3	18 May 2021	Comments	Water clear; Kelp; 7 Persons; 0.5 L/sec water flowing from storm drain
S3	25 May 2021	Arrive Time	835
S3	25 May 2021	Weather	Cloudy
S3	25 May 2021	Wind Speed (kts)	1.6
S3	25 May 2021	Wind Dir	NW
S3	25 May 2021	Animal Life	10 Seagulls; 1 Dog
S3	25 May 2021	Floatables	None
S3	25 May 2021	Water Color	Green
S3	25 May 2021	Current Direction	NW
S3	25 May 2021	Water Temp (C)	13
S3	25 May 2021	Wave Height Low (ft)	3
S3	25 May 2021	High Tide (ft)	4.19
S3	25 May 2021	High Tide Time	917
S3	25 May 2021	Low Tide (ft)	-1.12
S3	25 May 2021	Low Tide Time	312
S3	25 May 2021	Comments	Water clear; Kelp; 3 Persons; 0.5 L/sec water flowing from storm drain
S4	04 May 2021	Arrive Time	1054
S4	04 May 2021	Weather	Sunny
S4	04 May 2021	Wind Speed (kts)	4.6
S4	04 May 2021	Wind Dir	Water turbid; Kelp; Seagrass; Trash-2
S4	04 May 2021	Animal Life	None
S4	04 May 2021	Floatables	Foam; Film
S4	04 May 2021	Water Color	Brown
S4	04 May 2021	Current Direction	S
S4	04 May 2021	Water Temp (C)	19
S4	04 May 2021	Wave Height Low (ft)	3
S4	04 May 2021	High Tide (ft)	4.25
S4	04 May 2021	High Tide Time	411
S4	04 May 2021	Low Tide (ft)	-0.1
S4	04 May 2021	Low Tide Time	1136
S4	04 May 2021	Comments	Water turbid; Kelp; Seagrass; Trash-2
S4	11 May 2021	Arrive Time	941
S4	11 May 2021	Weather	Cloudy
S4	11 May 2021	Wind Speed (kts)	3.6
S4	11 May 2021	Wind Dir	W
S4	11 May 2021	Animal Life	None
S4	11 May 2021	Floatables	Foam
S4	11 May 2021	Water Color	Grey
S4	11 May 2021	Current Direction	N
S4	11 May 2021	Water Temp (C)	19
S4	11 May 2021	Wave Height Low (ft)	2
S4	11 May 2021	High Tide (ft)	3.74
S4	11 May 2021	High Tide Time	1000
S4	11 May 2021	Low Tide (ft)	-0.28
S4	11 May 2021	Low Tide Time	356
S4	11 May 2021	Comments	Water clear; Kelp; Seagrass; Debris; Trash-3; 1 Person; 1 Dog
S4	18 May 2021	Arrive Time	1021
S4	18 May 2021	Weather	Overcast
S4	18 May 2021	Wind Speed (kts)	5.4
S4	18 May 2021	Wind Dir	W
S4	18 May 2021	Animal Life	2 Terns
S4	18 May 2021	Floatables	Foam
S4	18 May 2021	Water Color	Green
S4	18 May 2021	Current Direction	S

Station	Date	Parameter	Value
S4	18 May 2021	Water Temp (C)	16.3
S4	18 May 2021	Wave Height Low (ft)	3
S4	18 May 2021	High Tide (ft)	4.39
S4	18 May 2021	High Tide Time	56
S4	18 May 2021	Low Tide (ft)	0.27
S4	18 May 2021	Low Tide Time	920
S4	18 May 2021	Comments	Water clear; Kelp; Seagrass; Trash-1
S4	25 May 2021	Arrive Time	1013
S4	25 May 2021	Weather	Partly Cloudy
S4	25 May 2021	Wind Speed (kts)	7.5
S4	25 May 2021	Wind Dir	SW
S4	25 May 2021	Animal Life	50 Flies
S4	25 May 2021	Floatables	Film
S4	25 May 2021	Water Color	Green
S4	25 May 2021	Current Direction	N
S4	25 May 2021	Water Temp (C)	14.9
S4	25 May 2021	Wave Height Low (ft)	4
S4	25 May 2021	High Tide (ft)	4.19
S4	25 May 2021	High Tide Time	917
S4	25 May 2021	Low Tide (ft)	-1.12
S4	25 May 2021	Low Tide Time	312
S4	25 May 2021	Comments	Water turbid; Kelp; Seagrass; Algae; Debris; Trash-2
S5	04 May 2021	Arrive Time	933
S5	04 May 2021	Weather	Sunny
S5	04 May 2021	Wind Speed (kts)	5.2
S5	04 May 2021	Wind Dir	NW
S5	04 May 2021	Animal Life	40 Least Terns
S5	04 May 2021	Floatables	Foam; Film
S5	04 May 2021	Water Color	Green
S5	04 May 2021	Current Direction	S
S5	04 May 2021	Water Temp (C)	19.8
S5	04 May 2021	Wave Height Low (ft)	2
S5	04 May 2021	High Tide (ft)	4.25
S5	04 May 2021	High Tide Time	411
S5	04 May 2021	Low Tide (ft)	-0.1
S5	04 May 2021	Low Tide Time	1136
S5	04 May 2021	Comments	Water clear; Kelp; Seagrass; Trash-1; Sewage-like odor
S5	11 May 2021	Arrive Time	750
S5	11 May 2021	Weather	Cloudy
S5	11 May 2021	Wind Speed (kts)	0.5
S5	11 May 2021	Wind Dir	W
S5	11 May 2021	Animal Life	2 Godwits; 1 Plover; 15 Terns; 50 Cormorants
S5	11 May 2021	Floatables	Foam
S5	11 May 2021	Water Color	Grey
S5	11 May 2021	Current Direction	N
S5	11 May 2021	Water Temp (C)	18.4
S5	11 May 2021	Wave Height Low (ft)	1
S5	11 May 2021	High Tide (ft)	3.74
S5	11 May 2021	High Tide Time	1000
S5	11 May 2021	Low Tide (ft)	-0.28
S5	11 May 2021	Low Tide Time	356
S5	11 May 2021	Comments	Water clear; Kelp; Seagrass; Debris; Trash-1
S5	18 May 2021	Arrive Time	844
S5	18 May 2021	Weather	Overcast
S5	18 May 2021	Wind Speed (kts)	3.1
S5	18 May 2021	Wind Dir	W
S5	18 May 2021	Animal Life	10 Plovers

Station	Date	Parameter	Value
S5	18 May 2021	Floatables	Foam; Film
S5	18 May 2021	Water Color	Brown
S5	18 May 2021	Current Direction	S
S5	18 May 2021	Water Temp (C)	19.6
S5	18 May 2021	Wave Height Low (ft)	2
S5	18 May 2021	High Tide (ft)	4.39
S5	18 May 2021	High Tide Time	56
S5	18 May 2021	Low Tide (ft)	0.27
S5	18 May 2021	Low Tide Time	920
S5	18 May 2021	Comments	Water turbid; Kelp: Seagrass; Debris; Trash-1; Sewage-like odor
S5	25 May 2021	Arrive Time	1127
S5	25 May 2021	Weather	Partly Cloudy
S5	25 May 2021	Wind Speed (kts)	5.2
S5	25 May 2021	Wind Dir	SW
S5	25 May 2021	Animal Life	1 Egret; 1 Seagull
S5	25 May 2021	Floatables	None
S5	25 May 2021	Water Color	Green
S5	25 May 2021	Current Direction	N
S5	25 May 2021	Water Temp (C)	16.6
S5	25 May 2021	Wave Height Low (ft)	2
S5	25 May 2021	High Tide (ft)	4.19
S5	25 May 2021	High Tide Time	917
S5	25 May 2021	Low Tide (ft)	-1.12
S5	25 May 2021	Low Tide Time	312
S5	25 May 2021	Comments	Water turbid; Kelp; Seagrass; Trash-1
S6	04 May 2021	Arrive Time	952
S6	04 May 2021	Weather	Sunny
S6	04 May 2021	Wind Speed (kts)	4.8
S6	04 May 2021	Wind Dir	W
S6	04 May 2021	Animal Life	None
S6	04 May 2021	Floatables	Foam; Film
S6	04 May 2021	Water Color	Green
S6	04 May 2021	Current Direction	S
S6	04 May 2021	Water Temp (C)	17.7
S6	04 May 2021	Wave Height Low (ft)	3
S6	04 May 2021	High Tide (ft)	4.25
S6	04 May 2021	High Tide Time	411
S6	04 May 2021	Low Tide (ft)	-0.1
S6	04 May 2021	Low Tide Time	1136
S6	04 May 2021	Comments	Water clear; Kelp; Seagrass; Trash-1; 3 Persons
S6	11 May 2021	Arrive Time	816
S6	11 May 2021	Weather	Cloudy
S6	11 May 2021	Wind Speed (kts)	0
S6	11 May 2021	Wind Dir	
S6	11 May 2021	Animal Life	2 Godwits; 1 Plover; 2 Terns
S6	11 May 2021	Floatables	Foam
S6	11 May 2021	Water Color	Grey
S6	11 May 2021	Current Direction	N
S6	11 May 2021	Water Temp (C)	18.1
S6	11 May 2021	Wave Height Low (ft)	2
S6	11 May 2021	High Tide (ft)	3.74
S6	11 May 2021	High Tide Time	1000
S6	11 May 2021	Low Tide (ft)	-0.28
S6	11 May 2021	Low Tide Time	356
S6	11 May 2021	Comments	Water clear; Kelp; Seagrass; Debris; 1 Surfer
S6	18 May 2021	Arrive Time	858

Station	Date	Parameter	Value
S6	18 May 2021	Weather	Overcast
S6	18 May 2021	Wind Speed (kts)	4.2
S6	18 May 2021	Wind Dir	W
S6	18 May 2021	Animal Life	None
S6	18 May 2021	Floatables	Foam; Film
S6	18 May 2021	Water Color	Brown
S6	18 May 2021	Current Direction	N
S6	18 May 2021	Water Temp (C)	15.9
S6	18 May 2021	Wave Height Low (ft)	2
S6	18 May 2021	High Tide (ft)	4.39
S6	18 May 2021	High Tide Time	56
S6	18 May 2021	Low Tide (ft)	0.27
S6	18 May 2021	Low Tide Time	920
S6	18 May 2021	Comments	Water turbid; Kelp; Seagrass; Trash-1
S6	25 May 2021	Arrive Time	1147
S6	25 May 2021	Weather	Partly Cloudy
S6	25 May 2021	Wind Speed (kts)	4.8
S6	25 May 2021	Wind Dir	SW
S6	25 May 2021	Animal Life	None
S6	25 May 2021	Floatables	Foam
S6	25 May 2021	Water Color	Green
S6	25 May 2021	Current Direction	N
S6	25 May 2021	Water Temp (C)	16.1
S6	25 May 2021	Wave Height Low (ft)	3
S6	25 May 2021	High Tide (ft)	4.19
S6	25 May 2021	High Tide Time	917
S6	25 May 2021	Low Tide (ft)	-1.12
S6	25 May 2021	Low Tide Time	312
S6	25 May 2021	Comments	Water turbid; Kelp; Seagrass; Trash-2; 1 Person; 1 Helicopter
S8	04 May 2021	Arrive Time	845
S8	04 May 2021	Weather	Overcast
S8	04 May 2021	Wind Speed (kts)	3.4
S8	04 May 2021	Wind Dir	W
S8	04 May 2021	Animal Life	1 Godwit; 2 Plovers
S8	04 May 2021	Floatables	Foam; Film
S8	04 May 2021	Water Color	Brown
S8	04 May 2021	Current Direction	W
S8	04 May 2021	Water Temp (C)	17.7
S8	04 May 2021	Wave Height Low (ft)	2
S8	04 May 2021	High Tide (ft)	4.25
S8	04 May 2021	High Tide Time	411
S8	04 May 2021	Low Tide (ft)	-0.1
S8	04 May 2021	Low Tide Time	1136
S8	04 May 2021	Comments	Water turbid; Kelp; Seagrass; Trash-1; 4 Persons
S8	11 May 2021	Arrive Time	1108
S8	11 May 2021	Weather	Cloudy
S8	11 May 2021	Wind Speed (kts)	8.5
S8	11 May 2021	Wind Dir	W
S8	11 May 2021	Animal Life	2 Plovers; 1 Tern
S8	11 May 2021	Floatables	Foam
S8	11 May 2021	Water Color	Green
S8	11 May 2021	Current Direction	N
S8	11 May 2021	Water Temp (C)	20
S8	11 May 2021	Wave Height Low (ft)	1
S8	11 May 2021	High Tide (ft)	3.74
S8	11 May 2021	High Tide Time	1000
S8	11 May 2021	Low Tide (ft)	-0.28
S8	11 May 2021	Low Tide Time	356

Station	Date	Parameter	Value
S8	11 May 2021	Comments	Water clear; Kelp; Seagrass; 4 Persons
S8	18 May 2021	Arrive Time	809
S8	18 May 2021	Weather	Overcast
S8	18 May 2021	Wind Speed (kts)	1.9
S8	18 May 2021	Wind Dir	W
S8	18 May 2021	Animal Life	2 Seagulls
S8	18 May 2021	Floatables	Foam
S8	18 May 2021	Water Color	Green
S8	18 May 2021	Current Direction	N
S8	18 May 2021	Water Temp (C)	16
S8	18 May 2021	Wave Height Low (ft)	1
S8	18 May 2021	High Tide (ft)	4.39
S8	18 May 2021	High Tide Time	56
S8	18 May 2021	Low Tide (ft)	0.27
S8	18 May 2021	Low Tide Time	920
S8	18 May 2021	Comments	Water clear; Kelp; Seagrass; Trash-1
S8	25 May 2021	Arrive Time	839
S8	25 May 2021	Weather	Foggy
S8	25 May 2021	Wind Speed (kts)	4.4
S8	25 May 2021	Wind Dir	W
S8	25 May 2021	Animal Life	None
S8	25 May 2021	Floatables	None
S8	25 May 2021	Water Color	Green
S8	25 May 2021	Current Direction	S
S8	25 May 2021	Water Temp (C)	16.4
S8	25 May 2021	Wave Height Low (ft)	3
S8	25 May 2021	High Tide (ft)	4.19
S8	25 May 2021	High Tide Time	917
S8	25 May 2021	Low Tide (ft)	-1.12
S8	25 May 2021	Low Tide Time	312
S8	25 May 2021	Comments	Water clear; Kelp; Seagrass; Algae; Trash-2; 3 Walkers; 2 Fisherpersons
S9	04 May 2021	Arrive Time	819
S9	04 May 2021	Weather	Overcast
S9	04 May 2021	Wind Speed (kts)	4.6
S9	04 May 2021	Wind Dir	W
S9	04 May 2021	Animal Life	None
S9	04 May 2021	Floatables	Film
S9	04 May 2021	Water Color	Green
S9	04 May 2021	Current Direction	S
S9	04 May 2021	Water Temp (C)	17.7
S9	04 May 2021	Wave Height Low (ft)	2
S9	04 May 2021	High Tide (ft)	4.25
S9	04 May 2021	High Tide Time	411
S9	04 May 2021	Low Tide (ft)	-0.1
S9	04 May 2021	Low Tide Time	1136
S9	04 May 2021	Comments	Water clear; Kelp; Seagrass; Trash-1; 3 Walkers; 1 Jogger
S9	11 May 2021	Arrive Time	1135
S9	11 May 2021	Weather	Cloudy
S9	11 May 2021	Wind Speed (kts)	5.8
S9	11 May 2021	Wind Dir	W
S9	11 May 2021	Animal Life	1 Tern; 1 Pelican
S9	11 May 2021	Floatables	Foam
S9	11 May 2021	Water Color	Green
S9	11 May 2021	Current Direction	S
S9	11 May 2021	Water Temp (C)	20.4
S9	11 May 2021	Wave Height Low (ft)	1

Station	Date	Parameter	Value
S9	11 May 2021	High Tide (ft)	3.74
S9	11 May 2021	High Tide Time	1000
S9	11 May 2021	Low Tide (ft)	-0.28
S9	11 May 2021	Low Tide Time	356
S9	11 May 2021	Comments	Water clear; Kelp; Seagrass; 4 Walkers
S9	18 May 2021	Arrive Time	751
S9	18 May 2021	Weather	Overcast
S9	18 May 2021	Wind Speed (kts)	1.1
S9	18 May 2021	Wind Dir	W
S9	18 May 2021	Animal Life	4 Seagulls
S9	18 May 2021	Floatables	None
S9	18 May 2021	Water Color	Green
S9	18 May 2021	Current Direction	N
S9	18 May 2021	Water Temp (C)	14.5
S9	18 May 2021	Wave Height Low (ft)	1
S9	18 May 2021	High Tide (ft)	4.39
S9	18 May 2021	High Tide Time	56
S9	18 May 2021	Low Tide (ft)	0.27
S9	18 May 2021	Low Tide Time	920
S9	18 May 2021	Comments	Water clear; Kelp; Seagrass; Trash-1; 1 Person; 1 Walker; 1 Jogger
S9	25 May 2021	Arrive Time	811
S9	25 May 2021	Weather	Foggy
S9	25 May 2021	Wind Speed (kts)	2.9
S9	25 May 2021	Wind Dir	W
S9	25 May 2021	Animal Life	None
S9	25 May 2021	Floatables	None
S9	25 May 2021	Water Color	Green
S9	25 May 2021	Current Direction	S
S9	25 May 2021	Water Temp (C)	16.7
S9	25 May 2021	Wave Height Low (ft)	1
S9	25 May 2021	High Tide (ft)	4.19
S9	25 May 2021	High Tide Time	917
S9	25 May 2021	Low Tide (ft)	-1.12
S9	25 May 2021	Low Tide Time	312
S9	25 May 2021	Comments	Water clear; Kelp; Seagrass; Algae; Trash-1; 4 Walkers
S10	04 May 2021	Arrive Time	1045
S10	04 May 2021	Weather	Sunny
S10	04 May 2021	Wind Speed (kts)	4.4
S10	04 May 2021	Wind Dir	W
S10	04 May 2021	Animal Life	3 Plovers
S10	04 May 2021	Floatables	Foam; Film; Dead Animals
S10	04 May 2021	Water Color	Brown
S10	04 May 2021	Current Direction	S
S10	04 May 2021	Water Temp (C)	18.9
S10	04 May 2021	Wave Height Low (ft)	3
S10	04 May 2021	High Tide (ft)	4.25
S10	04 May 2021	High Tide Time	411
S10	04 May 2021	Low Tide (ft)	-0.1
S10	04 May 2021	Low Tide Time	1136
S10	04 May 2021	Comments	Water turbid; Kelp; Seagrass; Trash-1
S10	11 May 2021	Arrive Time	928
S10	11 May 2021	Weather	Cloudy
S10	11 May 2021	Wind Speed (kts)	3.8
S10	11 May 2021	Wind Dir	W
S10	11 May 2021	Animal Life	None
S10	11 May 2021	Floatables	Foam

Station	Date	Parameter	Value
S10	11 May 2021	Water Color	Grey
S10	11 May 2021	Current Direction	N
S10	11 May 2021	Water Temp (C)	18.7
S10	11 May 2021	Wave Height Low (ft)	2
S10	11 May 2021	High Tide (ft)	3.74
S10	11 May 2021	High Tide Time	1000
S10	11 May 2021	Low Tide (ft)	-0.28
S10	11 May 2021	Low Tide Time	356
S10	11 May 2021	Comments	Water clear; Kelp; Seagrass
S10	18 May 2021	Arrive Time	1012
S10	18 May 2021	Weather	Overcast
S10	18 May 2021	Wind Speed (kts)	5.6
S10	18 May 2021	Wind Dir	W
S10	18 May 2021	Animal Life	None
S10	18 May 2021	Floatables	Foam; Dead animals
S10	18 May 2021	Water Color	Green
S10	18 May 2021	Current Direction	S
S10	18 May 2021	Water Temp (C)	16.1
S10	18 May 2021	Wave Height Low (ft)	3
S10	18 May 2021	High Tide (ft)	4.39
S10	18 May 2021	High Tide Time	56
S10	18 May 2021	Low Tide (ft)	0.27
S10	18 May 2021	Low Tide Time	920
S10	18 May 2021	Comments	Water clear; Kelp; Seagrass; Trash-1
S10	25 May 2021	Arrive Time	1033
S10	25 May 2021	Weather	Partly Cloudy
S10	25 May 2021	Wind Speed (kts)	8.3
S10	25 May 2021	Wind Dir	SW
S10	25 May 2021	Animal Life	20 Flies
S10	25 May 2021	Floatables	Film; Dead Animals
S10	25 May 2021	Water Color	Green
S10	25 May 2021	Current Direction	N
S10	25 May 2021	Water Temp (C)	16.5
S10	25 May 2021	Wave Height Low (ft)	5
S10	25 May 2021	High Tide (ft)	4.19
S10	25 May 2021	High Tide Time	917
S10	25 May 2021	Low Tide (ft)	-1.12
S10	25 May 2021	Low Tide Time	312
S10	25 May 2021	Comments	Water turbid; Kelp; Seagrass; Trash-2; 1 Walker; Horse poop on the beach
S11	04 May 2021	Arrive Time	947
S11	04 May 2021	Weather	Sunny
S11	04 May 2021	Wind Speed (kts)	5.2
S11	04 May 2021	Wind Dir	NW
S11	04 May 2021	Animal Life	None
S11	04 May 2021	Floatables	Foam; Film
S11	04 May 2021	Water Color	Green
S11	04 May 2021	Current Direction	S
S11	04 May 2021	Water Temp (C)	18.1
S11	04 May 2021	Wave Height Low (ft)	5
S11	04 May 2021	High Tide (ft)	4.25
S11	04 May 2021	High Tide Time	411
S11	04 May 2021	Low Tide (ft)	-0.1
S11	04 May 2021	Low Tide Time	1136
S11	04 May 2021	Comments	Water clear; Kelp; Seagrass; Trash-1; 1 Walker; 2 Persons
S11	11 May 2021	Arrive Time	803
S11	11 May 2021	Weather	Cloudy

Station	Date	Parameter	Value
S11	11 May 2021	Wind Speed (kts)	1.1
S11	11 May 2021	Wind Dir	W
S11	11 May 2021	Animal Life	4 Pelicans; 1 Plover; 1 Tern
S11	11 May 2021	Floatables	Foam
S11	11 May 2021	Water Color	Grey
S11	11 May 2021	Current Direction	N
S11	11 May 2021	Water Temp (C)	18
S11	11 May 2021	Wave Height Low (ft)	2
S11	11 May 2021	High Tide (ft)	3.74
S11	11 May 2021	High Tide Time	1000
S11	11 May 2021	Low Tide (ft)	-0.28
S11	11 May 2021	Low Tide Time	356
S11	11 May 2021	Comments	Water clear; Kelp; Seagrass; Debris
S11	18 May 2021	Arrive Time	852
S11	18 May 2021	Weather	Overcast
S11	18 May 2021	Wind Speed (kts)	3.6
S11	18 May 2021	Wind Dir	W
S11	18 May 2021	Animal Life	None
S11	18 May 2021	Floatables	Foam; Film
S11	18 May 2021	Water Color	Brown
S11	18 May 2021	Current Direction	N
S11	18 May 2021	Water Temp (C)	16.3
S11	18 May 2021	Wave Height Low (ft)	3
S11	18 May 2021	High Tide (ft)	4.39
S11	18 May 2021	High Tide Time	56
S11	18 May 2021	Low Tide (ft)	0.27
S11	18 May 2021	Low Tide Time	920
S11	18 May 2021	Comments	Water turbid; Kelp; Seagrass; Debris; Trash-1
S11	25 May 2021	Arrive Time	1140
S11	25 May 2021	Weather	Partly Cloudy
S11	25 May 2021	Wind Speed (kts)	4.8
S11	25 May 2021	Wind Dir	SW
S11	25 May 2021	Animal Life	None
S11	25 May 2021	Floatables	Foam
S11	25 May 2021	Water Color	Green
S11	25 May 2021	Current Direction	N
S11	25 May 2021	Water Temp (C)	15.4
S11	25 May 2021	Wave Height Low (ft)	2
S11	25 May 2021	High Tide (ft)	4.19
S11	25 May 2021	High Tide Time	917
S11	25 May 2021	Low Tide (ft)	-1.12
S11	25 May 2021	Low Tide Time	312
S11	25 May 2021	Comments	Water turbid; Kelp; Seagrass; Algae; Debris; Trash-2; 4 Walkers
S12	04 May 2021	Arrive Time	917
S12	04 May 2021	Weather	Sunny
S12	04 May 2021	Wind Speed (kts)	6.4
S12	04 May 2021	Wind Dir	W
S12	04 May 2021	Animal Life	None
S12	04 May 2021	Floatables	Foam
S12	04 May 2021	Water Color	Brown
S12	04 May 2021	Current Direction	S
S12	04 May 2021	Water Temp (C)	17.6
S12	04 May 2021	Wave Height Low (ft)	3
S12	04 May 2021	High Tide (ft)	4.25
S12	04 May 2021	High Tide Time	411
S12	04 May 2021	Low Tide (ft)	-0.1
S12	04 May 2021	Low Tide Time	1136

Station	Date	Parameter	Value
S12	04 May 2021	Comments	Water turbid; Kelp; Seagrass; Trash-1; 17 Persons
S12	11 May 2021	Arrive Time	840
S12	11 May 2021	Weather	Cloudy
S12	11 May 2021	Wind Speed (kts)	1.7
S12	11 May 2021	Wind Dir	W
S12	11 May 2021	Animal Life	1 Godwit
S12	11 May 2021	Floatables	Foam
S12	11 May 2021	Water Color	Grey
S12	11 May 2021	Current Direction	N
S12	11 May 2021	Water Temp (C)	18.2
S12	11 May 2021	Wave Height Low (ft)	4
S12	11 May 2021	High Tide (ft)	3.74
S12	11 May 2021	High Tide Time	1000
S12	11 May 2021	Low Tide (ft)	-0.28
S12	11 May 2021	Low Tide Time	356
S12	11 May 2021	Comments	Water clear; Kelp; Seagrass; 2 Dogs; 5 Persons; 2 Surfers
S12	18 May 2021	Arrive Time	828
S12	18 May 2021	Weather	Overcast
S12	18 May 2021	Wind Speed (kts)	3.1
S12	18 May 2021	Wind Dir	W
S12	18 May 2021	Animal Life	1 Stingray
S12	18 May 2021	Floatables	Foam; Film
S12	18 May 2021	Water Color	Brown
S12	18 May 2021	Current Direction	S
S12	18 May 2021	Water Temp (C)	15.3
S12	18 May 2021	Wave Height Low (ft)	2
S12	18 May 2021	High Tide (ft)	4.39
S12	18 May 2021	High Tide Time	56
S12	18 May 2021	Low Tide (ft)	0.27
S12	18 May 2021	Low Tide Time	920
S12	18 May 2021	Comments	Water turbid; Kelp; Seagrass; Trash-1; 1 Jogger
S12	25 May 2021	Arrive Time	908
S12	25 May 2021	Weather	Foggy
S12	25 May 2021	Wind Speed (kts)	4.2
S12	25 May 2021	Wind Dir	W
S12	25 May 2021	Animal Life	300 Flies; 1 Dog
S12	25 May 2021	Floatables	None
S12	25 May 2021	Water Color	Green
S12	25 May 2021	Current Direction	S
S12	25 May 2021	Water Temp (C)	15.2
S12	25 May 2021	Wave Height Low (ft)	3
S12	25 May 2021	High Tide (ft)	4.19
S12	25 May 2021	High Tide Time	917
S12	25 May 2021	Low Tide (ft)	-1.12
S12	25 May 2021	Low Tide Time	312
S12	25 May 2021	Comments	Water turbid; Kelp; Seagrass; Algae; Trash-1; 3 Walkers; 1 Person

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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 May 2021	78	31	17	5	8	2	33
02 May 2021	78	31	17	5	8	2	33
03 May 2021	143	56	42	12	18	6	64
04 May 2021	143	56	42	12	18	6	64
05 May 2021	143	56	42	12	18	6	64
06 May 2021	73	24	23	13	30	8	37
07 May 2021	73	24	23	13	30	8	37
08 May 2021	73	24	23	13	30	8	37
09 May 2021	73	24	23	13	30	8	37
10 May 2021	91	25	19	18	25	11	31
11 May 2021	91	25	19	18	25	11	31
12 May 2021	91	25	19	18	25	11	31
13 May 2021	91	25	19	18	25	11	31
14 May 2021	91	25	19	18	25	11	31
15 May 2021	92	23	22	31	28	17	25
16 May 2021	92	23	22	31	28	17	25
17 May 2021	92	23	22	31	28	17	25
18 May 2021	43	14	14	20	17	16	23
19 May 2021	43	14	14	20	17	16	23
20 May 2021	57	23	22	22	17	27	26
21 May 2021	57	23	22	22	17	27	26
22 May 2021	57	23	22	22	17	27	26
23 May 2021	57	23	22	22	17	27	26
24 May 2021	57	23	22	22	17	27	26
25 May 2021	57	23	22	22	17	27	26
26 May 2021	57	23	22	22	17	27	26
27 May 2021	55	23	16	22	12	44	37
28 May 2021	55	23	16	22	12	44	37
29 May 2021	55	23	16	22	12	44	37
30 May 2021	55	23	16	22	12	44	37
31 May 2021	55	23	16	22	12	44	37

* 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 May 2021	7	12	6	2	2	2	12
02 May 2021	7	12	6	2	2	2	12
03 May 2021	14	20	12	4	4	4	16
04 May 2021	14	20	12	4	4	4	16
05 May 2021	14	20	12	4	4	4	16
06 May 2021	7	9	8	5	4	4	10
07 May 2021	7	9	8	5	4	4	10
08 May 2021	7	9	8	5	4	4	10
09 May 2021	7	9	8	5	4	4	10
10 May 2021	7	8	6	5	4	5	8
11 May 2021	7	8	6	5	4	5	8
12 May 2021	7	8	6	5	4	5	8
13 May 2021	7	8	6	5	4	5	8
14 May 2021	7	8	6	5	4	5	8
15 May 2021	9	8	6	6	4	6	6
16 May 2021	9	8	6	6	4	6	6
17 May 2021	9	8	6	6	4	6	6
18 May 2021	6	6	5	5	4	5	5
19 May 2021	6	6	5	5	4	5	5
20 May 2021	9	8	6	6	4	6	5
21 May 2021	9	8	6	6	4	6	5
22 May 2021	9	8	6	6	4	6	5
23 May 2021	9	8	6	6	4	6	5
24 May 2021	9	8	6	6	4	6	5
25 May 2021	9	8	6	6	4	6	5
26 May 2021	9	8	6	6	4	6	5
27 May 2021	9	8	6	6	4	6	5
28 May 2021	9	8	6	6	4	6	5
29 May 2021	9	8	6	6	4	6	5
30 May 2021	9	8	6	6	4	6	5
31 May 2021	9	8	6	6	4	6	5

* 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 May 2021	12	10	6	2	2	2	12
02 May 2021	12	10	6	2	2	2	12
03 May 2021	21	16	10	4	4	4	17
04 May 2021	21	16	10	4	4	4	17
05 May 2021	21	16	10	4	4	4	17
06 May 2021	11	11	10	5	5	5	15
07 May 2021	11	11	10	5	5	5	15
08 May 2021	11	11	10	5	5	5	15
09 May 2021	11	11	10	5	5	5	15
10 May 2021	11	9	7	4	4	5	12
11 May 2021	11	9	7	4	4	5	12
12 May 2021	11	9	7	4	4	5	12
13 May 2021	11	9	7	4	4	5	12
14 May 2021	11	9	7	4	4	5	12
15 May 2021	9	7	6	5	5	7	7
16 May 2021	9	7	6	5	5	7	7
17 May 2021	9	7	6	5	5	7	7
18 May 2021	7	6	5	4	4	5	5
19 May 2021	7	6	5	4	4	5	5
20 May 2021	9	7	6	5	5	7	7
21 May 2021	9	7	6	5	5	7	7
22 May 2021	9	7	6	5	5	7	7
23 May 2021	9	7	6	5	5	7	7
24 May 2021	9	7	6	5	5	7	7
25 May 2021	9	7	6	5	5	7	7
26 May 2021	9	7	6	5	5	7	7
27 May 2021	11	7	6	5	5	8	6
28 May 2021	11	7	6	5	5	8	6
29 May 2021	11	7	6	5	5	8	6
30 May 2021	11	7	6	5	5	8	6
31 May 2021	11	7	6	5	5	8	6

* 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
03 May 2021	IC	IC	IC	IC	IC	IC	IC
10 May 2021	IC	IC	IC	IC	IC	IC	IC
18 May 2021	IC	IC	IC	IC	IC	IC	IC
27 May 2021	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
03 May 2021	IC	E	IC	IC	IC	IC	IC
10 May 2021	IC	IC	IC	IC	IC	IC	IC
18 May 2021	IC	IC	IC	IC	IC	IC	IC
27 May 2021	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
03 May 2021	E	E	E	E	E	E	E
10 May 2021	IC	IC	IC	IC	IC	IC	IC
18 May 2021	IC	IC	IC	IC	IC	IC	IC
27 May 2021	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
03 May 2021	E	E	IC	IC	IC	IC	IC
10 May 2021	IC	IC	IC	IC	IC	IC	IC
18 May 2021	IC	IC	IC	IC	IC	IC	IC
27 May 2021	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	03 May 2021	1048	2	100e	<2	14e	0.02	16.0	55.63	9.6	33.69	8.3
I19	03 May 2021	1048	6	1400e	200e	240e	0.14	15.5	59.02	8.5	33.68	8.2
I19	03 May 2021	1048	11	3400e	400	280e	0.12	14.1	38.90	8.1	33.63	8.1
I19	10 May 2021	1103	2	<20	4e	2e	0.20	17.5	66.89	9.4	33.70	8.3
I19	10 May 2021	1103	6	20e	4e	4e	0.20	17.5	67.31	9.2	33.70	8.3
I19	10 May 2021	1103	11	600e	12e	26e	0.02	17.0	58.56	8.8	33.73	8.3
I19	18 May 2021	1029	2	<2	<2	<2	1.00	15.1	73.14	6.9	33.74	8.0
I19	18 May 2021	1029	6	<2	<2	<2	1.00	12.1	70.95	6.0	33.69	7.9
I19	18 May 2021	1029	11	<2	<2	<2	1.00	11.8	73.99	5.8	33.64	7.9
I19	27 May 2021	1108	2	6e	<2	2e	0.33	17.2	69.99	8.4	33.72	8.2
I19	27 May 2021	1108	6	20e	2e	6e	0.10	16.9	67.09	7.9	33.71	8.2
I19	27 May 2021	1108	11	12e	<2	4e	0.17	11.5	26.99	4.5	33.72	7.8
I24	03 May 2021	1110	2	<20	<2	<2	0.10	16.0	50.60	10.6	33.68	8.3
I24	03 May 2021	1110	6	640	20e	44	0.03	15.3	66.23	8.8	33.69	8.2
I24	03 May 2021	1110	11	1200e	460	280e	0.38	15.0	60.28	8.8	33.65	8.2
I24	10 May 2021	1123	2	<2	<2	<2	1.00	17.4	78.03	9.9	33.71	8.3
I24	10 May 2021	1123	6	<2	4e	2e	2.00	17.3	78.21	10.0	33.71	8.3
I24	10 May 2021	1123	11	80e	10e	14e	0.12	17.1	69.20	10.1	33.70	8.3
I24	18 May 2021	1048	2	<2	<2	<2	1.00	15.6	80.09	7.7	33.72	8.1
I24	18 May 2021	1048	6	<2	<2	<2	1.00	12.6	58.18	6.2	33.73	8.0
I24	18 May 2021	1048	11	2e	<2	<2	1.00	12.1	76.32	6.0	33.66	7.9
I24	27 May 2021	1127	2	<2	<2	<2	1.00	17.0	69.66	8.6	33.72	8.2
I24	27 May 2021	1127	6	<2	<2	<2	1.00	16.6	69.83	7.9	33.74	8.2
I24	27 May 2021	1127	11	<20	<2	<2	0.10	11.8	40.63	5.0	33.70	7.9
I25	03 May 2021	1118	2	400e	10e	14e	0.02	16.1	62.51	10.1	33.63	8.3
I25	03 May 2021	1118	6	260e	32e	38e	0.12	15.7	59.95	9.9	33.67	8.3
I25	03 May 2021	1118	9	4400	400	300e	0.09	14.9	65.54	8.5	33.72	8.2
I25	10 May 2021	1131	2	<2	<2	<2	1.00	17.4	78.56	10.0	33.71	8.3
I25	10 May 2021	1131	6	4e	<2	2e	0.50	17.3	78.40	10.0	33.71	8.3
I25	10 May 2021	1131	9	20e	<2	2e	0.10	17.2	78.40	9.8	33.71	8.3
I25	18 May 2021	1057	2	<2	<2	<2	1.00	15.8	81.30	7.8	33.71	8.1
I25	18 May 2021	1057	6	<2	<2	<2	1.00	12.0	81.34	5.8	33.66	7.9
I25	18 May 2021	1057	9	2e	<2	<2	1.00	12.0	79.70	5.9	33.66	7.9
I25	27 May 2021	1136	2	<2	<2	<2	1.00	17.2	71.95	8.6	33.71	8.2
I25	27 May 2021	1136	6	<2	<2	<2	1.00	16.8	68.56	8.8	33.72	8.2
I25	27 May 2021	1136	9	<2	<2	<2	1.00	15.3	62.34	7.3	33.70	8.1
I26	03 May 2021	1138	2	<20	4e	<2	0.20	16.3	57.21	10.3	33.67	8.3
I26	03 May 2021	1138	6	1200e	44	28e	0.04	15.7	62.15	9.0	33.67	8.2
I26	03 May 2021	1138	9	200e	280e	160e	1.40	15.5	51.49	8.4	33.67	8.2

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH
I26	10 May 2021	1140	2	6e	<2	<2	0.33	17.5	72.78	10.3	33.71	8.4
I26	10 May 2021	1140	6	6e	<2	<2	0.33	17.4	72.02	10.3	33.71	8.4
I26	10 May 2021	1140	9	<200	4e	6e	0.02	16.5	68.81	8.5	33.72	8.3
I26	18 May 2021	1107	2	<2	<2	<2	1.00	15.7	80.62	7.8	33.71	8.1
I26	18 May 2021	1107	6	<2	<2	<2	1.00	12.1	79.77	6.5	33.66	7.9
I26	18 May 2021	1107	9	6e	<2	<2	0.33	11.8	79.14	5.8	33.66	7.9
I26	27 May 2021	1146	2	<2	<2	<2	1.00	17.1	71.93	8.7	33.72	8.2
I26	27 May 2021	1146	6	<2	<2	<2	1.00	17.0	71.60	8.6	33.72	8.2
I26	27 May 2021	1146	9	<2	<2	<2	1.00	16.3	71.36	8.0	33.70	8.1
I32	03 May 2021	1149	2	40e	6e	<2	0.15	16.2	46.91	9.8	33.66	8.3
I32	03 May 2021	1149	6	300e	44	16e	0.15	15.9	45.53	9.0	33.67	8.2
I32	03 May 2021	1149	9	1200e	60	140e	0.05	15.4	39.10	8.0	33.65	8.2
I32	10 May 2021	1152	2	4e	<2	<2	0.50	17.6	66.07	10.8	33.72	8.4
I32	10 May 2021	1152	6	20e	<2	<2	0.10	17.6	62.24	10.4	33.71	8.4
I32	10 May 2021	1152	9	10e	<2	<2	0.20	17.6	61.01	10.3	33.71	8.4
I32	18 May 2021	1117	2	<2	<2	<2	1.00	15.2	75.35	7.5	33.73	8.1
I32	18 May 2021	1117	6	<2	<2	<2	1.00	12.1	56.39	5.2	33.67	7.8
I32	18 May 2021	1117	9	<2	<2	<2	1.00	12.0	64.77	5.4	33.67	7.8
I32	27 May 2021	1159	2	<2	<2	<2	1.00	16.8	71.08	8.6	33.72	8.2
I32	27 May 2021	1159	6	<2	<2	<2	1.00	16.8	70.99	8.6	33.72	8.2
I32	27 May 2021	1159	9	<2	<2	<2	1.00	16.8	70.02	8.7	33.72	8.2
I39	03 May 2021	1028	2	12e	<2	4e	0.17	16.2	74.53	8.6	33.67	8.2
I39	03 May 2021	1028	12	1000e	110	140e	0.11	14.0	65.44	8.5	33.68	8.2
I39	03 May 2021	1028	18	400e	26e	22e	0.06	11.9	65.11	5.5	33.68	7.9
I39	10 May 2021	1138	2	2e	<2	<2	1.00	17.2	81.25	9.9	33.71	8.3
I39	10 May 2021	1138	12	120e	12e	30e	0.10	15.5	71.73	9.9	33.73	8.3
I39	10 May 2021	1138	18	20e	<2	<2	0.10	14.4	74.34	7.9	33.70	8.1
I39	18 May 2021	1009	2	4e	<2	<2	0.50	15.8	77.94	7.8	33.72	8.1
I39	18 May 2021	1009	12	8e	<2	<2	0.25	11.7	86.16	6.1	33.64	7.9
I39	18 May 2021	1009	18	24e	<2	<2	0.08	11.4	85.73	5.5	33.65	7.9
I39	27 May 2021	1048	2	<2	<2	<2	1.00	16.9	78.47	8.4	33.72	8.2
I39	27 May 2021	1048	12	6e	<2	<2	0.33	11.4	80.83	5.0	33.73	7.9
I39	27 May 2021	1048	18	34e	6e	4e	0.18	11.1	82.46	4.8	33.71	7.8
I40	03 May 2021	1101	2	80e	6e	6e	0.07	16.1	55.65	8.9	33.65	8.2
I40	03 May 2021	1101	6	600e	80	70	0.13	15.7	63.17	8.8	33.67	8.2
I40	03 May 2021	1101	9	2000e	84	120e	0.04	15.6	48.24	8.3	33.69	8.2
I40	10 May 2021	1115	2	4e	<2	2e	0.50	17.6	70.14	10.1	33.71	8.4
I40	10 May 2021	1115	6	<20	<2	2e	0.10	17.6	68.97	10.1	33.71	8.4
I40	10 May 2021	1115	9	<20	4e	14e	0.20	17.2	65.21	8.9	33.73	8.3
I40	18 May 2021	1040	2	18e	<2	<2	0.11	14.3	67.28	6.3	33.74	8.0
I40	18 May 2021	1040	6	14e	<2	<2	0.14	12.1	69.37	5.8	33.67	7.9
I40	18 May 2021	1040	9	<20	<2	<2	0.10	12.0	44.32	5.7	33.66	7.9
I40	27 May 2021	1119	2	<2	<2	<2	1.00	17.1	71.90	8.5	33.71	8.2
I40	27 May 2021	1119	6	2e	<2	<2	1.00	16.9	71.59	8.4	33.70	8.2
I40	27 May 2021	1119	9	20e	<2	2e	0.10	16.4	62.52	7.6	33.72	8.1

ns = not sampled
ND = no data

Table 3.9

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

Station	Date	Parameter	Value
I19	03 May 2021	Depth (m)	9.7
I19	03 May 2021	Arrive Time	1048
I19	03 May 2021	Depart Time	1054
I19	03 May 2021	Air Temp (C)	16
I19	03 May 2021	Weather	Haze
I19	03 May 2021	Visibility (mi)	12
I19	03 May 2021	Wind Speed (kts)	5.3
I19	03 May 2021	Wind Dir	W
I19	03 May 2021	Water Color	Green
I19	03 May 2021	Wave Ht Low (ft)	6
I19	03 May 2021	Wave Period (sec)	15
I19	03 May 2021	Sea State	Light Chop
I19	03 May 2021	High Tide (ft)	4.46216
I19	03 May 2021	High Tide Time	218
I19	03 May 2021	Low Tide (ft)	-0.29529
I19	03 May 2021	Low Tide Time	1012
I19	03 May 2021	Comments	Redish brown water approaching
I19	10 May 2021	Depth (m)	11.7
I19	10 May 2021	Arrive Time	1103
I19	10 May 2021	Depart Time	1107
I19	10 May 2021	Air Temp (C)	15.2
I19	10 May 2021	Weather	Overcast
I19	10 May 2021	Visibility (mi)	10
I19	10 May 2021	Wind Speed (kts)	4.9
I19	10 May 2021	Wind Dir	S
I19	10 May 2021	Water Color	Brownish-Green
I19	10 May 2021	Wave Ht Low (ft)	3
I19	10 May 2021	Wave Period (sec)	9
I19	10 May 2021	Sea State	Confused Swell
I19	10 May 2021	High Tide (ft)	5.41365
I19	10 May 2021	High Tide Time	2100
I19	10 May 2021	Low Tide (ft)	-0.13124
I19	10 May 2021	Low Tide Time	318
I19	10 May 2021	Comments	none
I19	18 May 2021	Depth (m)	10.1
I19	18 May 2021	Arrive Time	1029
I19	18 May 2021	Depart Time	1035
I19	18 May 2021	Air Temp (C)	15.8
I19	18 May 2021	Weather	Overcast
I19	18 May 2021	Visibility (mi)	14
I19	18 May 2021	Wind Speed (kts)	7.8
I19	18 May 2021	Wind Dir	W
I19	18 May 2021	Water Color	Green
I19	18 May 2021	Wave Ht Low (ft)	4
I19	18 May 2021	Wave Period (sec)	14
I19	18 May 2021	Sea State	Light Chop
I19	18 May 2021	High Tide (ft)	4.36373
I19	18 May 2021	High Tide Time	100
I19	18 May 2021	Low Tide (ft)	0.22967
I19	18 May 2021	Low Tide Time	906
I19	18 May 2021	Comments	none
I19	27 May 2021	Depth (m)	11.2
I19	27 May 2021	Arrive Time	1108

Station	Date	Parameter	Value
I19	27 May 2021	Depart Time	1113
I19	27 May 2021	Air Temp (C)	14.8
I19	27 May 2021	Weather	Haze
I19	27 May 2021	Visibility (mi)	10
I19	27 May 2021	Wind Speed (kts)	4.5
I19	27 May 2021	Wind Dir	SW
I19	27 May 2021	Water Color	Brownish-Green
I19	27 May 2021	Wave Ht Low (ft)	5
I19	27 May 2021	Wave Period (sec)	13
I19	27 May 2021	Sea State	Light Chop
I19	27 May 2021	High Tide (ft)	6.62762
I19	27 May 2021	High Tide Time	2206
I19	27 May 2021	Low Tide (ft)	-1.70612
I19	27 May 2021	Low Tide Time	436
I19	27 May 2021	Comments	none
I24	03 May 2021	Depth (m)	13
I24	03 May 2021	Arrive Time	1110
I24	03 May 2021	Depart Time	1114
I24	03 May 2021	Air Temp (C)	15.8
I24	03 May 2021	Weather	Haze
I24	03 May 2021	Visibility (mi)	12
I24	03 May 2021	Wind Speed (kts)	10.2
I24	03 May 2021	Wind Dir	N
I24	03 May 2021	Water Color	Brown
I24	03 May 2021	Wave Ht Low (ft)	6
I24	03 May 2021	Wave Period (sec)	15
I24	03 May 2021	Sea State	Light Chop
I24	03 May 2021	High Tide (ft)	4.46216
I24	03 May 2021	High Tide Time	218
I24	03 May 2021	Low Tide (ft)	-0.29529
I24	03 May 2021	Low Tide Time	1012
I24	03 May 2021	Comments	Possible red tide; Arrival off station
I24	10 May 2021	Depth (m)	10.2
I24	10 May 2021	Arrive Time	1123
I24	10 May 2021	Depart Time	1131
I24	10 May 2021	Air Temp (C)	15.3
I24	10 May 2021	Weather	Overcast
I24	10 May 2021	Visibility (mi)	10
I24	10 May 2021	Wind Speed (kts)	15.9
I24	10 May 2021	Wind Dir	SW
I24	10 May 2021	Water Color	Green
I24	10 May 2021	Wave Ht Low (ft)	3
I24	10 May 2021	Wave Period (sec)	10
I24	10 May 2021	Sea State	Confused Swell
I24	10 May 2021	High Tide (ft)	5.41365
I24	10 May 2021	High Tide Time	2100
I24	10 May 2021	Low Tide (ft)	-0.13124
I24	10 May 2021	Low Tide Time	318
I24	10 May 2021	Comments	none
I24	18 May 2021	Depth (m)	9.3
I24	18 May 2021	Arrive Time	1048
I24	18 May 2021	Depart Time	1054
I24	18 May 2021	Air Temp (C)	15.7
I24	18 May 2021	Weather	Overcast
I24	18 May 2021	Visibility (mi)	14
I24	18 May 2021	Wind Speed (kts)	6.5
I24	18 May 2021	Wind Dir	SW
I24	18 May 2021	Water Color	Blueish-Green

Station	Date	Parameter	Value
I24	18 May 2021	Wave Ht Low (ft)	4
I24	18 May 2021	Wave Period (sec)	14
I24	18 May 2021	Sea State	Light Chop
I24	18 May 2021	High Tide (ft)	4.36373
I24	18 May 2021	High Tide Time	100
I24	18 May 2021	Low Tide (ft)	0.22967
I24	18 May 2021	Low Tide Time	906
I24	18 May 2021	Comments	none
I24	27 May 2021	Depth (m)	12.4
I24	27 May 2021	Arrive Time	1127
I24	27 May 2021	Depart Time	1133
I24	27 May 2021	Air Temp (C)	15.3
I24	27 May 2021	Weather	Haze
I24	27 May 2021	Visibility (mi)	10
I24	27 May 2021	Wind Speed (kts)	6
I24	27 May 2021	Wind Dir	SE
I24	27 May 2021	Water Color	Brownish-Green
I24	27 May 2021	Wave Ht Low (ft)	5
I24	27 May 2021	Wave Period (sec)	13
I24	27 May 2021	Sea State	Light Chop
I24	27 May 2021	High Tide (ft)	6.62762
I24	27 May 2021	High Tide Time	2206
I24	27 May 2021	Low Tide (ft)	-1.70612
I24	27 May 2021	Low Tide Time	436
I24	27 May 2021	Comments	none
I25	03 May 2021	Depth (m)	8.4
I25	03 May 2021	Arrive Time	1118
I25	03 May 2021	Depart Time	1130
I25	03 May 2021	Air Temp (C)	15.8
I25	03 May 2021	Weather	Haze
I25	03 May 2021	Visibility (mi)	13
I25	03 May 2021	Wind Speed (kts)	9.9
I25	03 May 2021	Wind Dir	N
I25	03 May 2021	Water Color	Brown
I25	03 May 2021	Wave Ht Low (ft)	6
I25	03 May 2021	Wave Period (sec)	15
I25	03 May 2021	Sea State	Light Chop
I25	03 May 2021	High Tide (ft)	4.46216
I25	03 May 2021	High Tide Time	218
I25	03 May 2021	Low Tide (ft)	-0.29529
I25	03 May 2021	Low Tide Time	1012
I25	03 May 2021	Comments	Possible red tide; 3 attempts; Unable to obtain target depth due to swell
I25	10 May 2021	Depth (m)	9.8
I25	10 May 2021	Arrive Time	1131
I25	10 May 2021	Depart Time	1136
I25	10 May 2021	Air Temp (C)	15.4
I25	10 May 2021	Weather	Overcast
I25	10 May 2021	Visibility (mi)	10
I25	10 May 2021	Wind Speed (kts)	6.6
I25	10 May 2021	Wind Dir	SE
I25	10 May 2021	Water Color	Green
I25	10 May 2021	Wave Ht Low (ft)	3
I25	10 May 2021	Wave Period (sec)	10
I25	10 May 2021	Sea State	Confused Swell
I25	10 May 2021	High Tide (ft)	5.41365
I25	10 May 2021	High Tide Time	2100
I25	10 May 2021	Low Tide (ft)	-0.13124

Station	Date	Parameter	Value
I25	10 May 2021	Low Tide Time	318
I25	10 May 2021	Comments	none
I25	18 May 2021	Depth (m)	9
I25	18 May 2021	Arrive Time	1057
I25	18 May 2021	Depart Time	1100
I25	18 May 2021	Air Temp (C)	15.7
I25	18 May 2021	Weather	Overcast
I25	18 May 2021	Visibility (mi)	14
I25	18 May 2021	Wind Speed (kts)	6.9
I25	18 May 2021	Wind Dir	W
I25	18 May 2021	Water Color	Blueish-Green
I25	18 May 2021	Wave Ht Low (ft)	4
I25	18 May 2021	Wave Period (sec)	14
I25	18 May 2021	Sea State	Light Chop
I25	18 May 2021	High Tide (ft)	4.36373
I25	18 May 2021	High Tide Time	100
I25	18 May 2021	Low Tide (ft)	0.22967
I25	18 May 2021	Low Tide Time	906
I25	18 May 2021	Comments	none
I25	27 May 2021	Depth (m)	8.9
I25	27 May 2021	Arrive Time	1136
I25	27 May 2021	Depart Time	1141
I25	27 May 2021	Air Temp (C)	15
I25	27 May 2021	Weather	Clear
I25	27 May 2021	Visibility (mi)	10
I25	27 May 2021	Wind Speed (kts)	10.7
I25	27 May 2021	Wind Dir	S
I25	27 May 2021	Water Color	Brownish-Green
I25	27 May 2021	Wave Ht Low (ft)	5
I25	27 May 2021	Wave Period (sec)	13
I25	27 May 2021	Sea State	Light Chop
I25	27 May 2021	High Tide (ft)	6.62762
I25	27 May 2021	High Tide Time	2206
I25	27 May 2021	Low Tide (ft)	-1.70612
I25	27 May 2021	Low Tide Time	436
I25	27 May 2021	Comments	none
I26	03 May 2021	Depth (m)	9
I26	03 May 2021	Arrive Time	1138
I26	03 May 2021	Depart Time	1141
I26	03 May 2021	Air Temp (C)	15.8
I26	03 May 2021	Weather	Haze
I26	03 May 2021	Visibility (mi)	15
I26	03 May 2021	Wind Speed (kts)	7.8
I26	03 May 2021	Wind Dir	W
I26	03 May 2021	Water Color	Brown
I26	03 May 2021	Wave Ht Low (ft)	6
I26	03 May 2021	Wave Period (sec)	15
I26	03 May 2021	Sea State	Light Chop
I26	03 May 2021	High Tide (ft)	4.46216
I26	03 May 2021	High Tide Time	218
I26	03 May 2021	Low Tide (ft)	-0.29529
I26	03 May 2021	Low Tide Time	1012
I26	03 May 2021	Comments	Possible red tide
I26	10 May 2021	Depth (m)	9.2
I26	10 May 2021	Arrive Time	1140
I26	10 May 2021	Depart Time	1144
I26	10 May 2021	Air Temp (C)	15.3

Station	Date	Parameter	Value
I26	10 May 2021	Weather	Overcast
I26	10 May 2021	Visibility (mi)	10
I26	10 May 2021	Wind Speed (kts)	12.6
I26	10 May 2021	Wind Dir	SW
I26	10 May 2021	Water Color	Green
I26	10 May 2021	Wave Ht Low (ft)	3
I26	10 May 2021	Wave Period (sec)	10
I26	10 May 2021	Sea State	Confused Swell
I26	10 May 2021	High Tide (ft)	5.41365
I26	10 May 2021	High Tide Time	2100
I26	10 May 2021	Low Tide (ft)	-0.13124
I26	10 May 2021	Low Tide Time	318
I26	10 May 2021	Comments	none
I26	18 May 2021	Depth (m)	8.9
I26	18 May 2021	Arrive Time	1107
I26	18 May 2021	Depart Time	1109
I26	18 May 2021	Air Temp (C)	15.6
I26	18 May 2021	Weather	Overcast
I26	18 May 2021	Visibility (mi)	14
I26	18 May 2021	Wind Speed (kts)	9
I26	18 May 2021	Wind Dir	SW
I26	18 May 2021	Water Color	Blueish-Green
I26	18 May 2021	Wave Ht Low (ft)	4
I26	18 May 2021	Wave Period (sec)	14
I26	18 May 2021	Sea State	Light Chop
I26	18 May 2021	High Tide (ft)	4.36373
I26	18 May 2021	High Tide Time	100
I26	18 May 2021	Low Tide (ft)	0.22967
I26	18 May 2021	Low Tide Time	906
I26	18 May 2021	Comments	Kelp Debris
I26	27 May 2021	Depth (m)	9.4
I26	27 May 2021	Arrive Time	1146
I26	27 May 2021	Depart Time	1151
I26	27 May 2021	Air Temp (C)	15.1
I26	27 May 2021	Weather	Clear
I26	27 May 2021	Visibility (mi)	10
I26	27 May 2021	Wind Speed (kts)	4.5
I26	27 May 2021	Wind Dir	SE
I26	27 May 2021	Water Color	Brownish-Green
I26	27 May 2021	Wave Ht Low (ft)	5
I26	27 May 2021	Wave Period (sec)	8
I26	27 May 2021	Sea State	Light Chop
I26	27 May 2021	High Tide (ft)	6.62762
I26	27 May 2021	High Tide Time	2206
I26	27 May 2021	Low Tide (ft)	-1.70612
I26	27 May 2021	Low Tide Time	436
I26	27 May 2021	Comments	none
I32	03 May 2021	Depth (m)	9.8
I32	03 May 2021	Arrive Time	1149
I32	03 May 2021	Depart Time	1153
I32	03 May 2021	Air Temp (C)	15.8
I32	03 May 2021	Weather	Haze
I32	03 May 2021	Visibility (mi)	15
I32	03 May 2021	Wind Speed (kts)	12.5
I32	03 May 2021	Wind Dir	SW
I32	03 May 2021	Water Color	Brown
I32	03 May 2021	Wave Ht Low (ft)	6
I32	03 May 2021	Wave Period (sec)	15

Station	Date	Parameter	Value
I32	03 May 2021	Sea State	Light Chop
I32	03 May 2021	High Tide (ft)	4.46216
I32	03 May 2021	High Tide Time	218
I32	03 May 2021	Low Tide (ft)	-0.29529
I32	03 May 2021	Low Tide Time	1012
I32	03 May 2021	Comments	Possible red tide
I32	10 May 2021	Depth (m)	10.2
I32	10 May 2021	Arrive Time	1152
I32	10 May 2021	Depart Time	1158
I32	10 May 2021	Air Temp (C)	15.4
I32	10 May 2021	Weather	Overcast
I32	10 May 2021	Visibility (mi)	10
I32	10 May 2021	Wind Speed (kts)	0.7
I32	10 May 2021	Wind Dir	SW
I32	10 May 2021	Water Color	Green
I32	10 May 2021	Wave Ht Low (ft)	3
I32	10 May 2021	Wave Period (sec)	10
I32	10 May 2021	Sea State	Confused Swell
I32	10 May 2021	High Tide (ft)	5.41365
I32	10 May 2021	High Tide Time	2100
I32	10 May 2021	Low Tide (ft)	-0.13124
I32	10 May 2021	Low Tide Time	318
I32	10 May 2021	Comments	Kelp debris
I32	18 May 2021	Depth (m)	9.8
I32	18 May 2021	Arrive Time	1117
I32	18 May 2021	Depart Time	1125
I32	18 May 2021	Air Temp (C)	15.6
I32	18 May 2021	Weather	Partly Cloudy
I32	18 May 2021	Visibility (mi)	14
I32	18 May 2021	Wind Speed (kts)	7.9
I32	18 May 2021	Wind Dir	SW
I32	18 May 2021	Water Color	Blueish-Green
I32	18 May 2021	Wave Ht Low (ft)	4
I32	18 May 2021	Wave Period (sec)	14
I32	18 May 2021	Sea State	Light Chop
I32	18 May 2021	High Tide (ft)	4.36373
I32	18 May 2021	High Tide Time	100
I32	18 May 2021	Low Tide (ft)	0.22967
I32	18 May 2021	Low Tide Time	906
I32	18 May 2021	Comments	none
I32	27 May 2021	Depth (m)	10.6
I32	27 May 2021	Arrive Time	1159
I32	27 May 2021	Depart Time	1204
I32	27 May 2021	Air Temp (C)	15.4
I32	27 May 2021	Weather	Clear
I32	27 May 2021	Visibility (mi)	10
I32	27 May 2021	Wind Speed (kts)	12.6
I32	27 May 2021	Wind Dir	S
I32	27 May 2021	Water Color	Brownish-Green
I32	27 May 2021	Wave Ht Low (ft)	5
I32	27 May 2021	Wave Period (sec)	8
I32	27 May 2021	Sea State	Wind Ripples
I32	27 May 2021	High Tide (ft)	6.62762
I32	27 May 2021	High Tide Time	2206
I32	27 May 2021	Low Tide (ft)	-1.70612
I32	27 May 2021	Low Tide Time	436
I32	27 May 2021	Comments	none

Station	Date	Parameter	Value
I39	03 May 2021	Depth (m)	19.2
I39	03 May 2021	Arrive Time	1028
I39	03 May 2021	Depart Time	1032
I39	03 May 2021	Air Temp (C)	16.1
I39	03 May 2021	Weather	Partly Cloudy
I39	03 May 2021	Visibility (mi)	11
I39	03 May 2021	Wind Speed (kts)	3.9
I39	03 May 2021	Wind Dir	W
I39	03 May 2021	Water Color	Green
I39	03 May 2021	Wave Ht Low (ft)	6
I39	03 May 2021	Wave Period (sec)	9
I39	03 May 2021	Sea State	Light Chop
I39	03 May 2021	High Tide (ft)	4.46216
I39	03 May 2021	High Tide Time	218
I39	03 May 2021	Low Tide (ft)	-0.29529
I39	03 May 2021	Low Tide Time	1012
I39	03 May 2021	Comments	Possible red tide; Redish brown water approaching
I39	10 May 2021	Depth (m)	19.3
I39	10 May 2021	Arrive Time	1038
I39	10 May 2021	Depart Time	1049
I39	10 May 2021	Air Temp (C)	15.1
I39	10 May 2021	Weather	Overcast
I39	10 May 2021	Visibility (mi)	12
I39	10 May 2021	Wind Speed (kts)	3.7
I39	10 May 2021	Wind Dir	SE
I39	10 May 2021	Water Color	Greenish-Blue
I39	10 May 2021	Wave Ht Low (ft)	3
I39	10 May 2021	Wave Period (sec)	9
I39	10 May 2021	Sea State	Confused Swell
I39	10 May 2021	High Tide (ft)	5.41365
I39	10 May 2021	High Tide Time	2100
I39	10 May 2021	Low Tide (ft)	-0.13124
I39	10 May 2021	Low Tide Time	318
I39	10 May 2021	Comments	none
I39	18 May 2021	Depth (m)	22.1
I39	18 May 2021	Arrive Time	1009
I39	18 May 2021	Depart Time	1014
I39	18 May 2021	Air Temp (C)	15.5
I39	18 May 2021	Weather	Overcast
I39	18 May 2021	Visibility (mi)	14
I39	18 May 2021	Wind Speed (kts)	8.1
I39	18 May 2021	Wind Dir	SW
I39	18 May 2021	Water Color	Green
I39	18 May 2021	Wave Ht Low (ft)	4
I39	18 May 2021	Wave Period (sec)	14
I39	18 May 2021	Sea State	Light Chop
I39	18 May 2021	High Tide (ft)	4.36373
I39	18 May 2021	High Tide Time	100
I39	18 May 2021	Low Tide (ft)	0.22967
I39	18 May 2021	Low Tide Time	906
I39	18 May 2021	Comments	none
I39	27 May 2021	Depth (m)	19.6
I39	27 May 2021	Arrive Time	1048
I39	27 May 2021	Depart Time	1052
I39	27 May 2021	Air Temp (C)	14.9
I39	27 May 2021	Weather	Haze
I39	27 May 2021	Visibility (mi)	10
I39	27 May 2021	Wind Speed (kts)	7.5

Station	Date	Parameter	Value
I39	27 May 2021	Wind Dir	SW
I39	27 May 2021	Water Color	Green
I39	27 May 2021	Wave Ht Low (ft)	5
I39	27 May 2021	Wave Period (sec)	13
I39	27 May 2021	Sea State	Light Chop
I39	27 May 2021	High Tide (ft)	6.62762
I39	27 May 2021	High Tide Time	2206
I39	27 May 2021	Low Tide (ft)	-1.70612
I39	27 May 2021	Low Tide Time	436
I39	27 May 2021	Comments	none
I40	03 May 2021	Depth (m)	9.5
I40	03 May 2021	Arrive Time	1101
I40	03 May 2021	Depart Time	1104
I40	03 May 2021	Air Temp (C)	16.1
I40	03 May 2021	Weather	Haze
I40	03 May 2021	Visibility (mi)	12
I40	03 May 2021	Wind Speed (kts)	3.8
I40	03 May 2021	Wind Dir	W
I40	03 May 2021	Water Color	Green
I40	03 May 2021	Wave Ht Low (ft)	6
I40	03 May 2021	Wave Period (sec)	15
I40	03 May 2021	Sea State	Light Chop
I40	03 May 2021	High Tide (ft)	4.46216
I40	03 May 2021	High Tide Time	218
I40	03 May 2021	Low Tide (ft)	-0.29529
I40	03 May 2021	Low Tide Time	1012
I40	03 May 2021	Comments	none
I40	10 May 2021	Depth (m)	10.6
I40	10 May 2021	Arrive Time	1115
I40	10 May 2021	Depart Time	1120
I40	10 May 2021	Air Temp (C)	15.4
I40	10 May 2021	Weather	Overcast
I40	10 May 2021	Visibility (mi)	10
I40	10 May 2021	Wind Speed (kts)	1.9
I40	10 May 2021	Wind Dir	SW
I40	10 May 2021	Water Color	Brownish-Green
I40	10 May 2021	Wave Ht Low (ft)	3
I40	10 May 2021	Wave Period (sec)	9
I40	10 May 2021	Sea State	Confused Swell
I40	10 May 2021	High Tide (ft)	5.41365
I40	10 May 2021	High Tide Time	2100
I40	10 May 2021	Low Tide (ft)	-0.13124
I40	10 May 2021	Low Tide Time	318
I40	10 May 2021	Comments	none
I40	18 May 2021	Depth (m)	9.8
I40	18 May 2021	Arrive Time	1040
I40	18 May 2021	Depart Time	1044
I40	18 May 2021	Air Temp (C)	15.7
I40	18 May 2021	Weather	Overcast
I40	18 May 2021	Visibility (mi)	14
I40	18 May 2021	Wind Speed (kts)	8.6
I40	18 May 2021	Wind Dir	SW
I40	18 May 2021	Water Color	Green
I40	18 May 2021	Wave Ht Low (ft)	4
I40	18 May 2021	Wave Period (sec)	14
I40	18 May 2021	Sea State	Light Chop
I40	18 May 2021	High Tide (ft)	4.36373
I40	18 May 2021	High Tide Time	100

Station	Date	Parameter	Value
I40	18 May 2021	Low Tide (ft)	0.22967
I40	18 May 2021	Low Tide Time	906
I40	18 May 2021	Comments	Kelp Debris
I40	27 May 2021	Depth (m)	10.8
I40	27 May 2021	Arrive Time	1119
I40	27 May 2021	Depart Time	1123
I40	27 May 2021	Air Temp (C)	15
I40	27 May 2021	Weather	Haze
I40	27 May 2021	Visibility (mi)	10
I40	27 May 2021	Wind Speed (kts)	6.2
I40	27 May 2021	Wind Dir	S
I40	27 May 2021	Water Color	Brownish-Green
I40	27 May 2021	Wave Ht Low (ft)	5
I40	27 May 2021	Wave Period (sec)	13
I40	27 May 2021	Sea State	Light Chop
I40	27 May 2021	High Tide (ft)	6.62762
I40	27 May 2021	High Tide Time	2206
I40	27 May 2021	Low Tide (ft)	-1.70612
I40	27 May 2021	Low Tide Time	436
I40	27 May 2021	Comments	none

Table 3.10

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

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I19	03 May 2021	1	16.10	58.31	9.7	33.68	8.3	24.7	4.18
I19	03 May 2021	2	15.96	55.63	9.6	33.69	8.3	24.7	7.02
I19	03 May 2021	3	15.82	50.51	9.3	33.69	8.3	24.8	12.82
I19	03 May 2021	4	15.59	56.55	8.8	33.68	8.3	24.8	12.58
I19	03 May 2021	5	15.61	58.61	8.7	33.68	8.2	24.8	11.64
I19	03 May 2021	6	15.52	59.02	8.5	33.68	8.2	24.8	10.53
I19	03 May 2021	7	15.46	59.37	8.4	33.67	8.2	24.8	9.79
I19	03 May 2021	8	15.32	58.58	8.3	33.68	8.2	24.9	8.02
I19	03 May 2021	9	14.94	53.44	8.1	33.72	8.2	25.0	6.16
I19	03 May 2021	10	14.12	38.90	8.1	33.63	8.1	25.1	5.18
I19	10 May 2021	1	17.49	67.02	9.3	33.70	8.3	24.4	5.91
I19	10 May 2021	2	17.48	66.89	9.4	33.70	8.3	24.4	6.78
I19	10 May 2021	3	17.48	66.70	9.3	33.70	8.3	24.4	8.70
I19	10 May 2021	4	17.47	66.63	9.3	33.70	8.3	24.4	9.65
I19	10 May 2021	5	17.47	66.95	9.3	33.70	8.3	24.4	9.81
I19	10 May 2021	6	17.46	67.31	9.2	33.70	8.3	24.4	9.54
I19	10 May 2021	7	17.46	67.05	9.1	33.70	8.3	24.4	9.29
I19	10 May 2021	8	17.43	66.75	8.9	33.71	8.3	24.4	9.07
I19	10 May 2021	9	17.25	65.12	8.7	33.72	8.3	24.5	9.14
I19	10 May 2021	10	17.00	58.56	8.8	33.73	8.3	24.5	10.06
I19	18 May 2021	1	15.29	73.16	7.1	33.72	8.0	24.9	1.18
I19	18 May 2021	2	15.12	73.14	6.9	33.74	8.0	25.0	1.37
I19	18 May 2021	3	14.43	72.07	6.7	33.75	8.0	25.1	2.22
I19	18 May 2021	4	13.80	70.23	6.5	33.73	8.0	25.2	4.11
I19	18 May 2021	5	12.75	68.32	6.3	33.75	8.0	25.5	6.67
I19	18 May 2021	6	12.09	70.95	6.0	33.69	7.9	25.6	5.14
I19	18 May 2021	7	11.98	76.06	5.8	33.66	7.9	25.5	3.22
I19	18 May 2021	8	11.84	78.07	5.8	33.66	7.9	25.6	2.16
I19	18 May 2021	9	11.79	77.46	5.7	33.65	7.9	25.6	1.67
I19	18 May 2021	10	11.82	73.99	5.8	33.64	7.9	25.6	1.49
I19	27 May 2021	1	17.26	70.37	8.4	33.72	8.2	24.5	1.77
I19	27 May 2021	2	17.20	69.99	8.4	33.72	8.2	24.5	1.95
I19	27 May 2021	3	17.00	68.16	8.2	33.72	8.2	24.5	2.67
I19	27 May 2021	4	16.94	67.38	8.2	33.72	8.2	24.5	3.11
I19	27 May 2021	5	16.92	67.28	8.2	33.71	8.2	24.5	3.60
I19	27 May 2021	6	16.90	67.09	7.9	33.71	8.2	24.5	3.93
I19	27 May 2021	7	16.35	65.43	7.3	33.79	8.1	24.7	4.04
I19	27 May 2021	8	15.32	43.46	6.8	33.69	8.0	24.9	4.27
I19	27 May 2021	9	13.18	26.06	5.3	33.93	8.0	25.5	4.51
I19	27 May 2021	10	11.49	26.99	4.5	33.72	7.8	25.7	4.51
I24	03 May 2021	1	16.00	51.11	10.6	33.67	8.3	24.7	8.77
I24	03 May 2021	2	15.97	50.60	10.6	33.68	8.3	24.7	11.93
I24	03 May 2021	3	15.62	46.53	10.0	33.69	8.3	24.8	23.81
I24	03 May 2021	4	15.55	53.34	9.6	33.68	8.3	24.8	25.83
I24	03 May 2021	5	15.48	58.45	9.3	33.68	8.2	24.8	19.55
I24	03 May 2021	6	15.33	66.23	8.8	33.69	8.2	24.9	11.94
I24	03 May 2021	7	14.77	61.95	8.2	33.69	8.2	25.0	5.74
I24	03 May 2021	8	15.03	63.82	8.8	33.69	8.2	25.0	8.80
I24	03 May 2021	9	14.94	61.43	8.7	33.67	8.2	25.0	6.61
I24	03 May 2021	10	15.00	60.28	8.8	33.65	8.2	24.9	7.20
I24	10 May 2021	1	17.36	77.13	9.9	33.71	8.3	24.4	1.88

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I24	10 May 2021	2	17.36	78.03	9.9	33.71	8.3	24.4	1.99
I24	10 May 2021	3	17.36	79.00	9.9	33.71	8.3	24.4	2.17
I24	10 May 2021	4	17.36	79.06	10.0	33.71	8.3	24.4	2.48
I24	10 May 2021	5	17.34	78.56	10.0	33.71	8.3	24.4	3.28
I24	10 May 2021	6	17.34	78.21	10.0	33.71	8.3	24.4	3.85
I24	10 May 2021	7	17.34	78.26	10.0	33.71	8.3	24.4	3.91
I24	10 May 2021	8	17.33	78.39	10.0	33.71	8.3	24.4	3.89
I24	10 May 2021	9	17.24	78.12	10.0	33.72	8.3	24.5	4.52
I24	10 May 2021	10	17.13	69.20	10.1	33.70	8.3	24.5	7.29
I24	18 May 2021	1	15.71	80.49	7.8	33.71	8.1	24.8	0.71
I24	18 May 2021	2	15.65	80.09	7.7	33.72	8.1	24.8	0.78
I24	18 May 2021	3	15.38	78.47	7.6	33.73	8.1	24.9	0.97
I24	18 May 2021	4	15.13	74.57	7.3	33.74	8.1	25.0	1.28
I24	18 May 2021	5	14.07	63.58	6.6	33.79	8.0	25.2	3.53
I24	18 May 2021	6	12.65	58.18	6.2	33.73	8.0	25.5	8.67
I24	18 May 2021	7	12.25	73.45	6.1	33.68	7.9	25.5	6.40
I24	18 May 2021	8	12.11	78.45	6.1	33.66	7.9	25.5	3.10
I24	18 May 2021	9	12.08	78.59	6.1	33.66	7.9	25.5	1.93
I24	18 May 2021	10	12.05	76.32	6.0	33.66	7.9	25.5	1.51
I24	27 May 2021	1	17.12	70.99	8.6	33.72	8.2	24.5	1.68
I24	27 May 2021	2	17.03	69.66	8.6	33.72	8.2	24.5	1.90
I24	27 May 2021	3	16.96	70.21	8.6	33.72	8.2	24.5	2.24
I24	27 May 2021	4	16.94	70.27	8.6	33.72	8.2	24.5	2.63
I24	27 May 2021	5	16.86	70.32	8.3	33.72	8.2	24.6	3.24
I24	27 May 2021	6	16.57	69.83	7.9	33.74	8.2	24.7	3.77
I24	27 May 2021	7	15.74	70.46	7.3	33.79	8.1	24.9	3.96
I24	27 May 2021	8	14.69	66.30	6.8	33.76	8.1	25.1	3.93
I24	27 May 2021	9	14.21	54.81	6.1	33.75	8.0	25.2	3.97
I24	27 May 2021	10	12.74	47.96	5.2	33.85	8.0	25.5	4.01
I24	27 May 2021	11	11.75	40.63	5.0	33.70	7.9	25.6	3.57
I25	03 May 2021	1	16.16	63.02	10.1	33.67	8.3	24.7	4.28
I25	03 May 2021	2	16.13	62.51	10.1	33.63	8.3	24.7	4.76
I25	03 May 2021	3	16.04	60.70	10.0	33.68	8.3	24.7	6.78
I25	03 May 2021	4	15.95	57.90	10.0	33.68	8.3	24.7	10.25
I25	03 May 2021	5	15.81	53.56	10.0	33.69	8.3	24.8	15.42
I25	03 May 2021	6	15.72	59.95	9.9	33.67	8.3	24.8	18.28
I25	03 May 2021	7	15.51	62.70	9.2	33.69	8.3	24.9	13.36
I25	03 May 2021	8	14.88	65.54	8.5	33.72	8.2	25.0	8.18
I25	10 May 2021	1	17.35	78.68	10.0	33.71	8.3	24.4	2.07
I25	10 May 2021	2	17.35	78.56	10.0	33.71	8.3	24.4	2.03
I25	10 May 2021	3	17.35	78.57	10.0	33.71	8.3	24.4	2.51
I25	10 May 2021	4	17.35	78.20	10.0	33.71	8.3	24.4	3.00
I25	10 May 2021	5	17.33	78.24	10.0	33.71	8.3	24.4	3.37
I25	10 May 2021	6	17.33	78.40	10.0	33.71	8.3	24.4	3.56
I25	10 May 2021	7	17.33	78.03	10.0	33.71	8.3	24.4	3.90
I25	10 May 2021	8	17.28	77.28	9.9	33.71	8.3	24.5	4.11
I25	10 May 2021	9	17.23	78.40	9.8	33.71	8.3	24.5	3.33
I25	18 May 2021	1	15.83	81.31	7.8	33.71	8.1	24.8	0.78
I25	18 May 2021	2	15.82	81.30	7.8	33.71	8.1	24.8	0.82
I25	18 May 2021	3	15.34	80.91	7.3	33.77	8.1	24.9	1.04
I25	18 May 2021	4	13.83	74.73	7.0	33.73	8.0	25.2	1.97
I25	18 May 2021	5	12.49	79.01	6.2	33.82	8.0	25.6	1.77
I25	18 May 2021	6	11.96	81.34	5.8	33.66	7.9	25.6	1.27
I25	18 May 2021	7	11.91	81.47	5.8	33.65	7.9	25.6	1.09
I25	18 May 2021	8	11.94	80.18	5.9	33.65	7.9	25.6	1.01
I25	18 May 2021	9	12.01	79.70	5.9	33.66	7.9	25.5	1.03

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I25	27 May 2021	1	17.17	71.65	8.6	33.71	8.2	24.5	1.68
I25	27 May 2021	2	17.17	71.95	8.6	33.71	8.2	24.5	1.73
I25	27 May 2021	3	17.10	72.01	8.6	33.72	8.2	24.5	1.97
I25	27 May 2021	4	17.05	71.43	8.7	33.72	8.2	24.5	2.49
I25	27 May 2021	5	16.90	69.41	8.8	33.72	8.2	24.6	3.63
I25	27 May 2021	6	16.78	68.56	8.8	33.72	8.2	24.6	4.53
I25	27 May 2021	7	16.69	68.93	8.5	33.72	8.2	24.6	4.96
I25	27 May 2021	8	15.57	69.62	7.5	33.84	8.2	24.9	4.89
I25	27 May 2021	9	15.34	62.34	7.3	33.70	8.1	24.9	4.37
I26	03 May 2021	1	16.29	56.83	10.4	33.67	8.3	24.7	5.21
I26	03 May 2021	2	16.29	57.21	10.3	33.67	8.3	24.7	5.63
I26	03 May 2021	3	16.27	56.26	10.3	33.67	8.3	24.7	6.86
I26	03 May 2021	4	16.01	53.59	9.8	33.71	8.3	24.8	8.25
I26	03 May 2021	5	15.78	59.80	9.2	33.67	8.3	24.8	9.86
I26	03 May 2021	6	15.73	62.15	9.0	33.67	8.2	24.8	8.62
I26	03 May 2021	7	15.52	60.28	8.5	33.67	8.2	24.8	6.85
I26	03 May 2021	8	15.17	57.60	8.3	33.66	8.2	24.9	4.84
I26	03 May 2021	9	15.46	51.49	8.4	33.67	8.2	24.8	5.10
I26	10 May 2021	1	17.48	72.68	10.3	33.71	8.4	24.4	3.86
I26	10 May 2021	2	17.48	72.78	10.3	33.71	8.4	24.4	4.40
I26	10 May 2021	3	17.48	72.74	10.4	33.71	8.4	24.4	5.15
I26	10 May 2021	4	17.47	72.67	10.4	33.71	8.4	24.4	6.58
I26	10 May 2021	5	17.47	72.73	10.4	33.71	8.4	24.4	7.39
I26	10 May 2021	6	17.44	72.02	10.3	33.71	8.4	24.4	9.38
I26	10 May 2021	7	17.43	71.24	10.2	33.71	8.4	24.4	9.97
I26	10 May 2021	8	17.27	71.00	9.5	33.72	8.4	24.5	11.71
I26	10 May 2021	9	16.54	68.81	8.5	33.72	8.3	24.6	6.01
I26	18 May 2021	1	15.73	80.46	7.8	33.71	8.1	24.8	0.84
I26	18 May 2021	2	15.72	80.62	7.8	33.71	8.1	24.8	0.86
I26	18 May 2021	3	15.29	78.67	7.4	33.76	8.1	25.0	1.07
I26	18 May 2021	4	14.35	76.18	7.3	33.71	8.1	25.1	1.74
I26	18 May 2021	5	12.24	69.46	7.0	33.76	8.0	25.6	5.21
I26	18 May 2021	6	12.08	79.77	6.5	33.66	7.9	25.5	5.59
I26	18 May 2021	7	11.84	81.99	6.0	33.66	7.9	25.6	2.69
I26	18 May 2021	8	11.82	81.44	5.8	33.65	7.9	25.6	1.39
I26	18 May 2021	9	11.82	79.14	5.8	33.66	7.9	25.6	1.08
I26	27 May 2021	1	17.08	71.86	8.6	33.72	8.2	24.5	1.60
I26	27 May 2021	2	17.07	71.93	8.7	33.72	8.2	24.5	1.67
I26	27 May 2021	3	17.07	71.89	8.7	33.72	8.2	24.5	1.80
I26	27 May 2021	4	17.05	71.94	8.7	33.72	8.2	24.5	2.18
I26	27 May 2021	5	17.03	71.75	8.6	33.72	8.2	24.5	2.48
I26	27 May 2021	6	16.96	71.60	8.6	33.72	8.2	24.5	3.24
I26	27 May 2021	7	16.85	70.99	8.5	33.73	8.2	24.6	3.86
I26	27 May 2021	8	16.46	71.11	8.3	33.74	8.2	24.7	4.26
I26	27 May 2021	9	16.34	71.36	8.0	33.70	8.1	24.7	4.35
I32	03 May 2021	1	16.16	46.90	9.8	33.66	8.3	24.7	9.79
I32	03 May 2021	2	16.16	46.91	9.8	33.66	8.3	24.7	11.76
I32	03 May 2021	3	16.13	46.28	9.7	33.66	8.3	24.7	17.79
I32	03 May 2021	4	16.12	45.80	9.6	33.66	8.3	24.7	20.40
I32	03 May 2021	5	16.04	44.74	9.4	33.66	8.3	24.7	21.17
I32	03 May 2021	6	15.92	45.53	9.0	33.67	8.2	24.7	19.02
I32	03 May 2021	7	15.86	52.34	8.9	33.65	8.2	24.7	15.42
I32	03 May 2021	8	15.67	51.73	8.4	33.66	8.2	24.8	11.28
I32	03 May 2021	9	15.43	39.10	8.0	33.65	8.2	24.8	6.93

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I32	10 May 2021	1	17.65	67.11	10.9	33.72	8.4	24.4	4.21
I32	10 May 2021	2	17.63	66.07	10.8	33.72	8.4	24.4	6.00
I32	10 May 2021	3	17.63	65.75	10.6	33.72	8.4	24.4	8.25
I32	10 May 2021	4	17.63	66.02	10.6	33.72	8.4	24.4	8.88
I32	10 May 2021	5	17.62	63.94	10.4	33.72	8.4	24.4	9.79
I32	10 May 2021	6	17.61	62.24	10.4	33.71	8.4	24.4	10.61
I32	10 May 2021	7	17.61	62.26	10.4	33.71	8.4	24.4	10.88
I32	10 May 2021	8	17.60	62.03	10.3	33.71	8.4	24.4	11.13
I32	10 May 2021	9	17.60	61.01	10.3	33.71	8.4	24.4	11.86
I32	10 May 2021	10	17.59	58.23	10.3	33.71	8.4	24.4	11.95
I32	18 May 2021	1	15.35	75.81	7.6	33.72	8.1	24.9	0.97
I32	18 May 2021	2	15.22	75.35	7.5	33.73	8.1	24.9	1.08
I32	18 May 2021	3	14.92	74.42	7.3	33.74	8.1	25.0	1.30
I32	18 May 2021	4	14.51	73.00	6.9	33.74	8.0	25.1	1.55
I32	18 May 2021	5	12.51	59.84	5.6	33.80	7.9	25.6	4.27
I32	18 May 2021	6	12.09	56.39	5.2	33.67	7.8	25.5	8.86
I32	18 May 2021	7	11.98	59.12	5.3	33.67	7.8	25.6	12.98
I32	18 May 2021	8	11.98	64.64	5.4	33.67	7.8	25.6	10.90
I32	18 May 2021	9	11.97	64.77	5.4	33.67	7.8	25.6	5.80
I32	18 May 2021	10	12.07	43.15	5.4	33.68	7.8	25.5	5.26
I32	27 May 2021	1	16.85	70.52	8.6	33.72	8.2	24.6	1.82
I32	27 May 2021	2	16.82	71.08	8.6	33.72	8.2	24.6	2.06
I32	27 May 2021	3	16.83	71.50	8.7	33.72	8.2	24.6	2.44
I32	27 May 2021	4	16.82	71.35	8.7	33.72	8.2	24.6	2.84
I32	27 May 2021	5	16.80	71.31	8.7	33.72	8.2	24.6	3.42
I32	27 May 2021	6	16.80	70.99	8.6	33.72	8.2	24.6	3.93
I32	27 May 2021	7	16.78	70.25	8.7	33.72	8.2	24.6	4.27
I32	27 May 2021	8	16.78	70.05	8.7	33.72	8.2	24.6	4.45
I32	27 May 2021	9	16.78	70.02	8.7	33.72	8.2	24.6	4.30
I32	27 May 2021	10	16.78	69.55	8.7	33.72	8.2	24.6	4.49
I39	03 May 2021	1	16.23	74.72	8.6	33.67	8.2	24.7	1.84
I39	03 May 2021	2	16.22	74.53	8.6	33.67	8.2	24.7	1.77
I39	03 May 2021	3	16.27	73.82	8.5	33.67	8.2	24.7	1.75
I39	03 May 2021	4	16.09	73.88	8.7	33.69	8.2	24.7	2.28
I39	03 May 2021	5	15.98	68.12	8.9	33.68	8.2	24.7	4.51
I39	03 May 2021	6	15.45	56.92	9.0	33.70	8.2	24.9	10.94
I39	03 May 2021	7	15.41	61.71	8.9	33.67	8.2	24.9	13.03
I39	03 May 2021	8	14.87	64.39	8.7	33.69	8.2	25.0	11.58
I39	03 May 2021	9	14.54	63.21	8.7	33.70	8.2	25.1	11.18
I39	03 May 2021	10	14.27	63.14	8.7	33.68	8.2	25.1	10.77
I39	03 May 2021	11	14.21	63.51	8.7	33.68	8.2	25.1	10.40
I39	03 May 2021	12	13.97	65.44	8.5	33.68	8.2	25.2	8.77
I39	03 May 2021	13	13.94	67.95	8.4	33.68	8.2	25.2	7.02
I39	03 May 2021	14	13.85	70.63	8.0	33.69	8.1	25.2	5.53
I39	03 May 2021	15	12.91	70.92	6.7	33.78	8.1	25.5	3.59
I39	03 May 2021	16	12.21	70.03	6.0	33.69	8.0	25.5	2.48
I39	03 May 2021	17	12.13	70.09	5.8	33.70	8.0	25.6	2.12
I39	03 May 2021	18	11.87	65.11	5.5	33.68	7.9	25.6	1.84
I39	10 May 2021	1	17.18	81.08	9.8	33.71	8.3	24.5	1.69
I39	10 May 2021	2	17.17	81.25	9.9	33.71	8.3	24.5	1.84
I39	10 May 2021	3	17.16	81.42	9.9	33.71	8.3	24.5	2.00
I39	10 May 2021	4	17.15	81.38	9.9	33.71	8.3	24.5	2.09
I39	10 May 2021	5	17.14	81.34	10.0	33.71	8.3	24.5	2.18
I39	10 May 2021	6	17.11	81.22	10.1	33.71	8.3	24.5	2.20
I39	10 May 2021	7	16.97	81.15	10.6	33.72	8.3	24.5	2.54
I39	10 May 2021	8	16.81	79.65	10.9	33.71	8.3	24.6	3.40
I39	10 May 2021	9	16.77	78.75	11.1	33.70	8.4	24.6	3.57

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I39	10 May 2021	10	16.80	78.93	10.9	33.70	8.4	24.6	3.66
I39	10 May 2021	11	16.39	77.36	10.2	33.74	8.4	24.7	6.50
I39	10 May 2021	12	15.49	71.73	9.9	33.73	8.3	24.9	8.69
I39	10 May 2021	13	15.61	75.29	9.6	33.71	8.3	24.8	8.19
I39	10 May 2021	14	14.65	76.26	8.9	33.72	8.2	25.1	7.00
I39	10 May 2021	15	14.51	75.18	8.4	33.70	8.2	25.1	7.07
I39	10 May 2021	16	14.38	73.59	7.9	33.70	8.2	25.1	6.90
I39	10 May 2021	17	14.37	74.09	7.8	33.70	8.1	25.1	6.51
I39	10 May 2021	18	14.42	74.34	7.9	33.70	8.1	25.1	5.73
I39	18 May 2021	1	15.84	76.25	7.8	33.72	8.1	24.8	1.36
I39	18 May 2021	2	15.81	77.94	7.8	33.72	8.1	24.8	1.49
I39	18 May 2021	3	15.77	77.87	7.8	33.73	8.1	24.8	1.65
I39	18 May 2021	4	15.64	77.59	7.8	33.73	8.1	24.9	1.78
I39	18 May 2021	5	15.58	77.58	7.8	33.73	8.1	24.9	1.86
I39	18 May 2021	6	15.49	77.46	7.6	33.73	8.1	24.9	1.97
I39	18 May 2021	7	14.46	75.56	6.9	33.80	8.1	25.2	3.70
I39	18 May 2021	8	12.55	81.77	6.0	33.78	8.0	25.5	3.85
I39	18 May 2021	9	11.83	85.36	5.9	33.67	7.9	25.6	2.06
I39	18 May 2021	10	11.97	85.73	6.0	33.64	7.9	25.5	1.38
I39	18 May 2021	11	11.73	85.87	6.1	33.65	7.9	25.6	1.22
I39	18 May 2021	12	11.71	86.16	6.1	33.64	7.9	25.6	1.15
I39	18 May 2021	13	11.64	86.28	6.0	33.64	7.9	25.6	1.18
I39	18 May 2021	14	11.57	86.12	5.9	33.64	7.9	25.6	1.20
I39	18 May 2021	15	11.47	86.02	5.7	33.65	7.9	25.6	1.06
I39	18 May 2021	16	11.44	86.08	5.5	33.65	7.9	25.6	0.93
I39	18 May 2021	17	11.43	85.91	5.5	33.65	7.9	25.6	0.86
I39	18 May 2021	18	11.44	85.73	5.5	33.65	7.9	25.6	0.84
I39	27 May 2021	1	17.01	78.69	8.4	33.71	8.2	24.5	0.98
I39	27 May 2021	2	16.92	78.47	8.4	33.72	8.2	24.5	1.10
I39	27 May 2021	3	16.83	77.18	8.3	33.72	8.2	24.6	1.33
I39	27 May 2021	4	16.49	76.30	8.2	33.73	8.2	24.7	1.72
I39	27 May 2021	5	15.90	75.60	8.1	33.73	8.2	24.8	2.04
I39	27 May 2021	6	15.33	73.65	7.7	33.77	8.1	25.0	2.71
I39	27 May 2021	7	14.24	72.92	7.5	33.73	8.1	25.2	3.77
I39	27 May 2021	8	14.16	73.90	7.3	33.70	8.1	25.1	4.55
I39	27 May 2021	9	14.07	76.41	7.0	33.69	8.1	25.2	4.65
I39	27 May 2021	10	12.92	78.68	6.1	33.81	8.0	25.5	3.58
I39	27 May 2021	11	11.76	80.40	5.3	33.73	7.9	25.6	2.54
I39	27 May 2021	12	11.41	80.83	5.0	33.73	7.9	25.7	1.93
I39	27 May 2021	13	11.15	82.65	4.8	33.71	7.8	25.7	1.57
I39	27 May 2021	14	11.11	83.07	4.8	33.70	7.8	25.7	1.32
I39	27 May 2021	15	11.12	83.08	4.8	33.70	7.8	25.7	1.24
I39	27 May 2021	16	11.10	82.87	4.8	33.71	7.8	25.8	1.14
I39	27 May 2021	17	11.09	82.79	4.8	33.71	7.8	25.8	1.14
I39	27 May 2021	18	11.09	82.46	4.8	33.71	7.8	25.8	1.14
I40	03 May 2021	1	16.04	54.91	9.0	33.66	8.2	24.7	4.87
I40	03 May 2021	2	16.08	55.65	8.9	33.65	8.2	24.7	4.72
I40	03 May 2021	3	15.97	56.14	8.7	33.68	8.2	24.7	5.70
I40	03 May 2021	4	15.77	58.37	8.6	33.68	8.2	24.8	7.72
I40	03 May 2021	5	15.72	61.53	8.8	33.68	8.2	24.8	8.56
I40	03 May 2021	6	15.74	63.17	8.8	33.67	8.2	24.8	8.74
I40	03 May 2021	7	15.73	61.11	8.5	33.68	8.2	24.8	8.23
I40	03 May 2021	8	15.68	55.64	8.3	33.68	8.2	24.8	7.14
I40	03 May 2021	9	15.64	48.24	8.3	33.69	8.2	24.8	6.93
I40	03 May 2021	10	15.28	40.01	8.1	33.70	8.2	24.9	5.71
I40	10 May 2021	1	17.63	69.95	10.1	33.71	8.4	24.4	4.91
I40	10 May 2021	2	17.63	70.14	10.1	33.71	8.4	24.4	5.38

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I40	10 May 2021	3	17.63	69.79	10.1	33.71	8.4	24.4	6.91
I40	10 May 2021	4	17.63	69.18	10.1	33.71	8.4	24.4	7.89
I40	10 May 2021	5	17.63	69.28	10.1	33.71	8.4	24.4	8.49
I40	10 May 2021	6	17.62	68.97	10.1	33.71	8.4	24.4	9.34
I40	10 May 2021	7	17.59	68.57	10.0	33.71	8.4	24.4	10.84
I40	10 May 2021	8	17.55	68.09	9.7	33.72	8.3	24.4	12.06
I40	10 May 2021	9	17.17	65.21	8.9	33.73	8.3	24.5	14.46
I40	10 May 2021	10	16.73	57.97	9.1	33.72	8.3	24.6	11.16
I40	18 May 2021	1	14.62	67.54	6.8	33.71	8.0	25.1	1.02
I40	18 May 2021	2	14.27	67.28	6.3	33.74	8.0	25.2	1.10
I40	18 May 2021	3	12.89	68.19	5.5	33.69	7.9	25.4	1.23
I40	18 May 2021	4	12.38	70.02	5.5	33.71	7.8	25.5	1.18
I40	18 May 2021	5	12.20	69.76	5.7	33.66	7.9	25.5	1.20
I40	18 May 2021	6	12.13	69.37	5.8	33.67	7.9	25.5	1.28
I40	18 May 2021	7	12.03	62.57	5.8	33.66	7.9	25.5	1.54
I40	18 May 2021	8	12.04	57.72	5.7	33.66	7.9	25.5	1.77
I40	18 May 2021	9	12.03	44.32	5.7	33.66	7.9	25.5	2.11
I40	18 May 2021	10	12.04	37.67	5.7	33.67	7.9	25.5	2.24
I40	27 May 2021	1	17.09	71.77	8.4	33.72	8.2	24.5	1.75
I40	27 May 2021	2	17.09	71.90	8.5	33.71	8.2	24.5	1.80
I40	27 May 2021	3	17.20	71.73	8.5	33.71	8.2	24.5	1.91
I40	27 May 2021	4	17.08	71.68	8.4	33.73	8.2	24.5	2.49
I40	27 May 2021	5	16.89	72.31	8.4	33.72	8.2	24.6	3.13
I40	27 May 2021	6	16.94	71.59	8.4	33.70	8.2	24.5	3.34
I40	27 May 2021	7	16.90	71.60	8.2	33.73	8.2	24.6	3.62
I40	27 May 2021	8	16.60	65.80	8.0	33.73	8.1	24.6	4.06
I40	27 May 2021	9	16.42	62.52	7.6	33.72	8.1	24.7	4.25
I40	27 May 2021	10	14.60	57.51	6.4	33.88	8.1	25.2	4.10

NA = not available

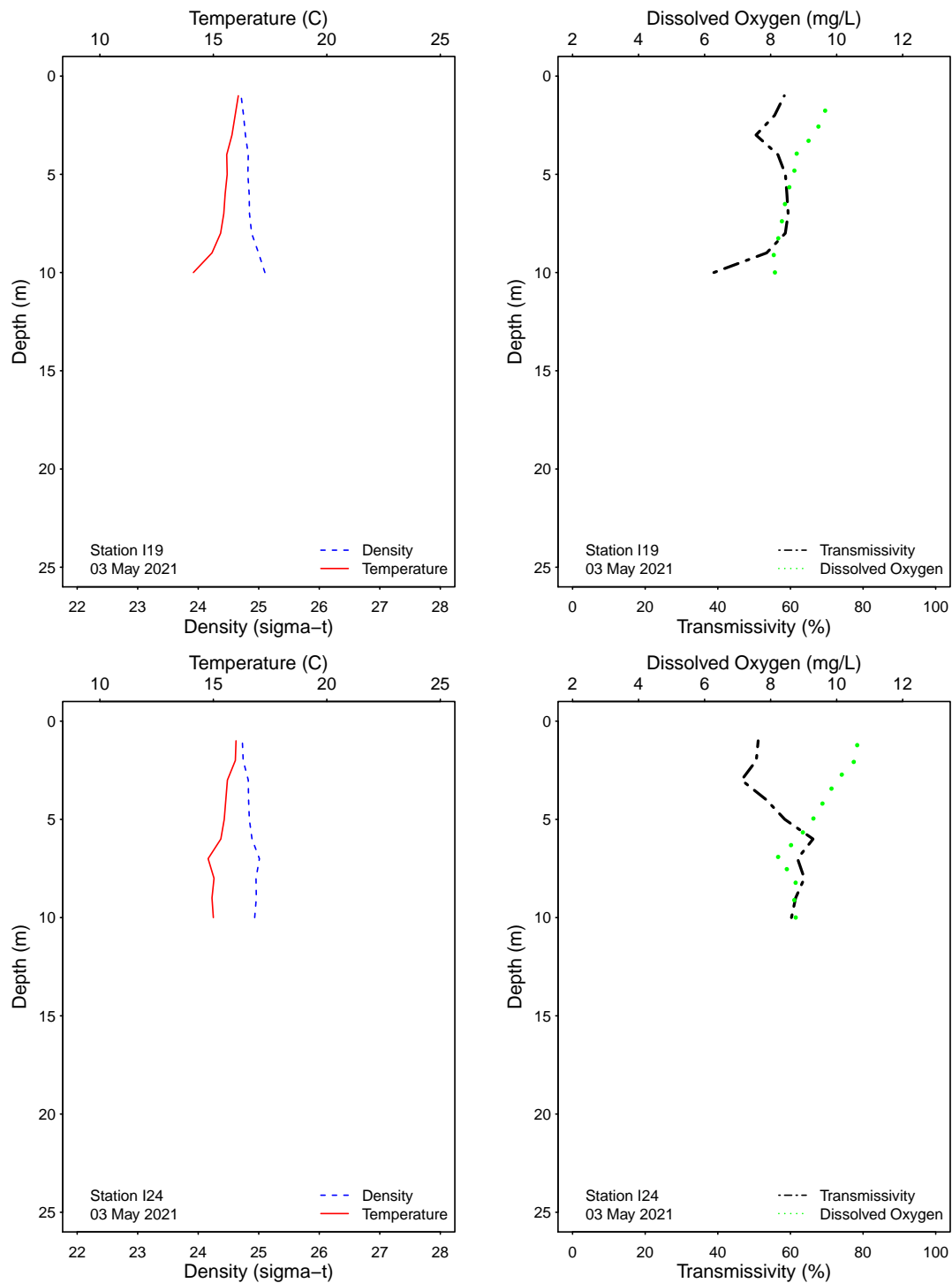


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

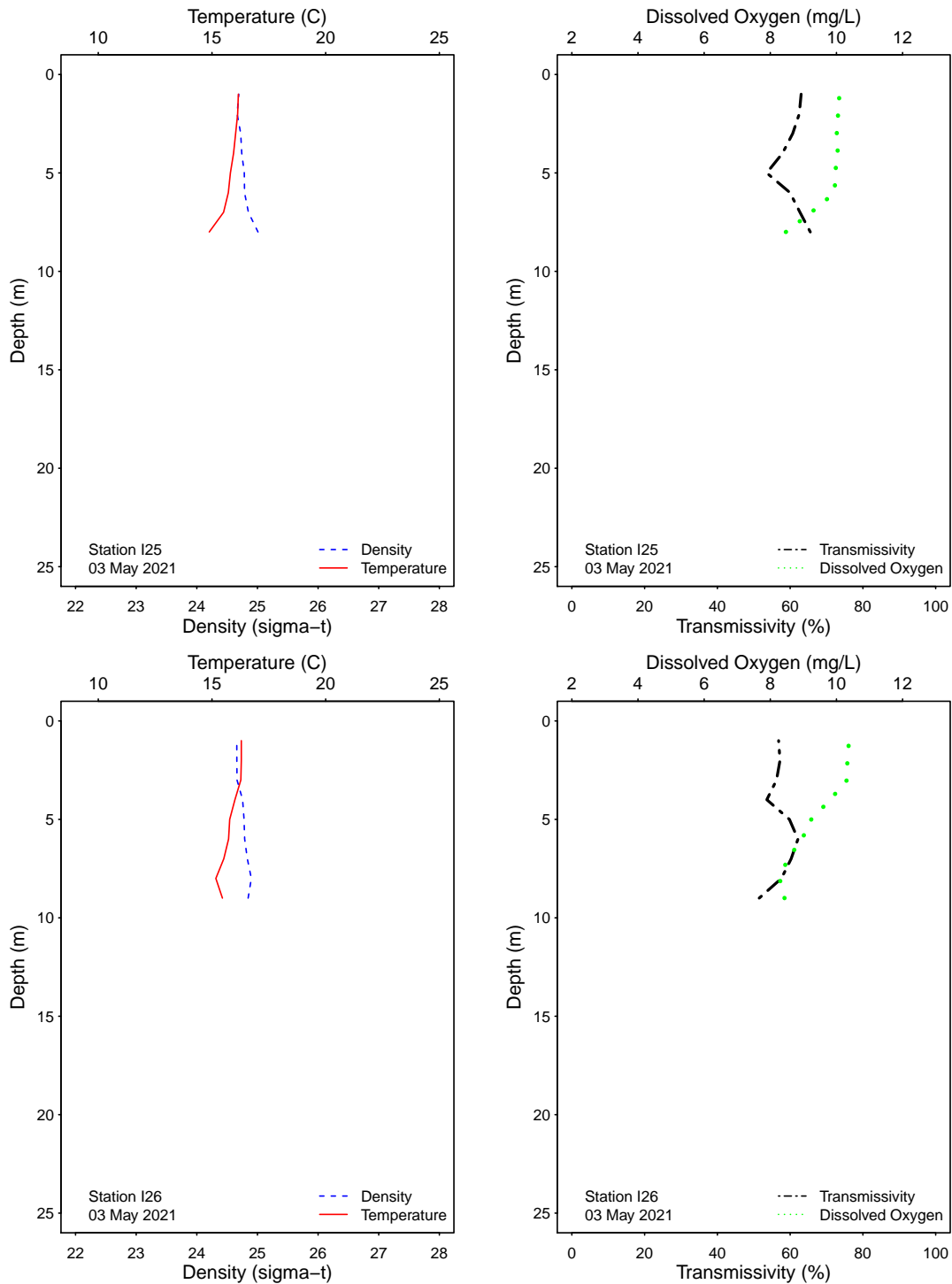


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

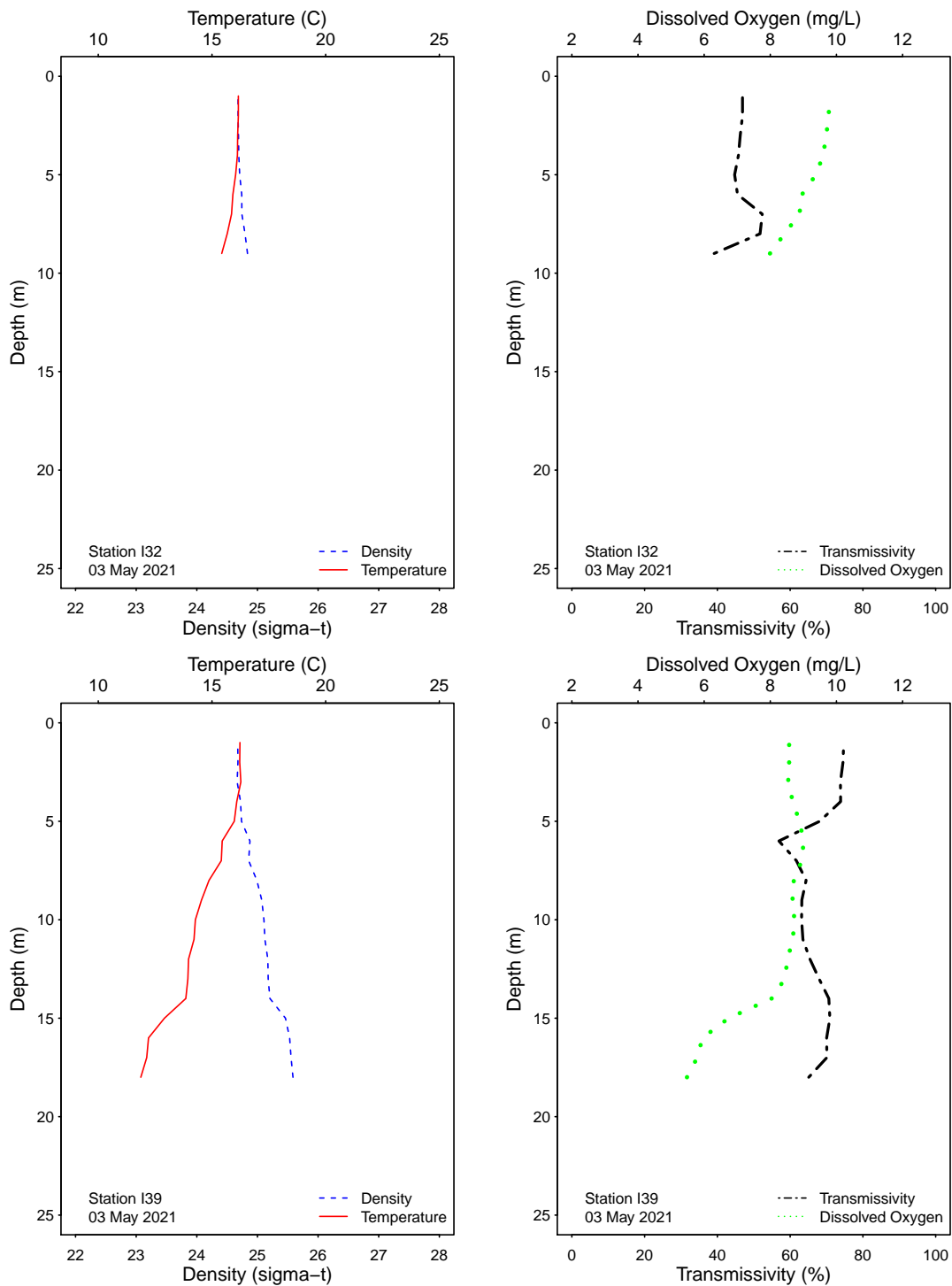


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

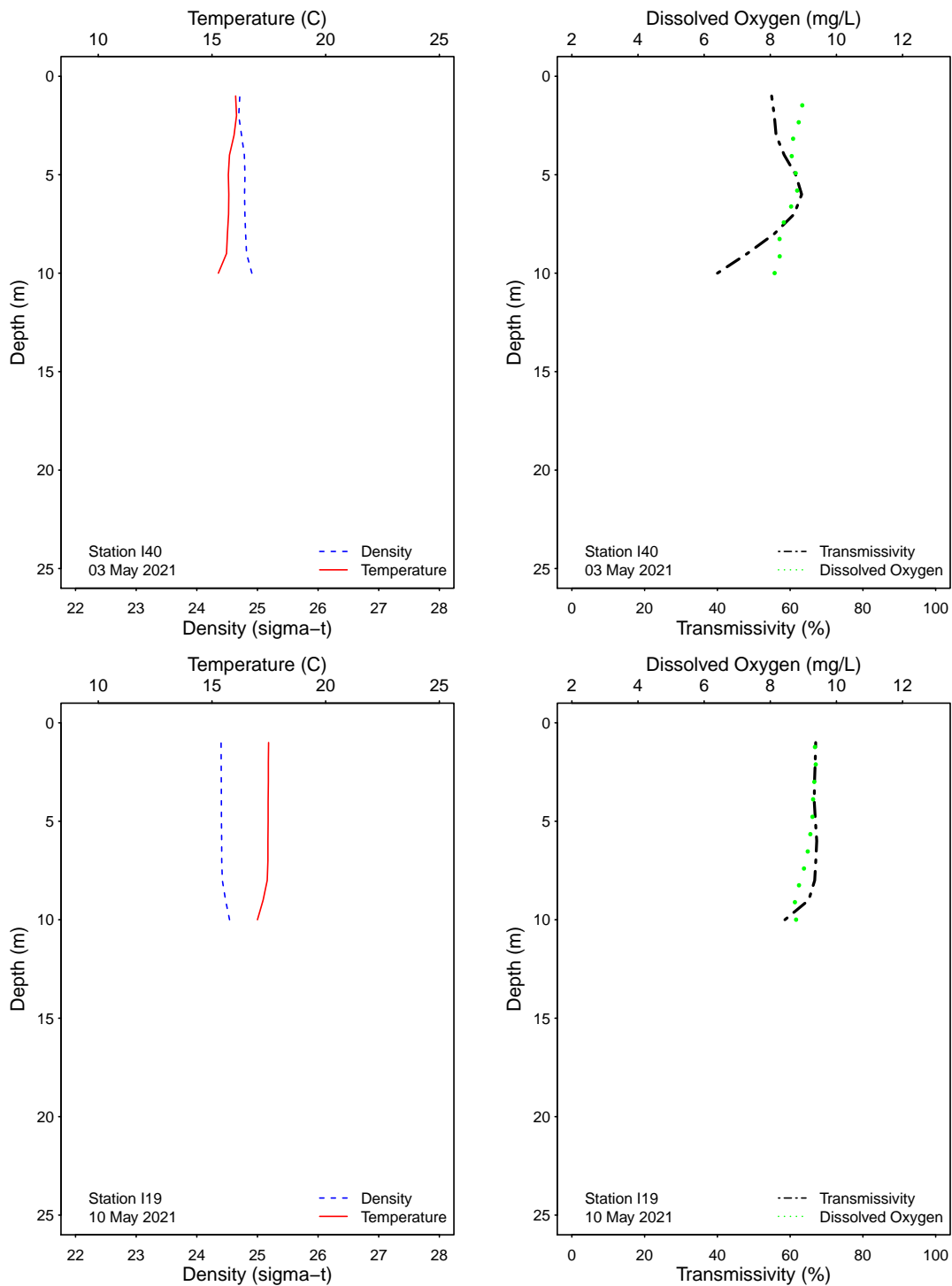


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

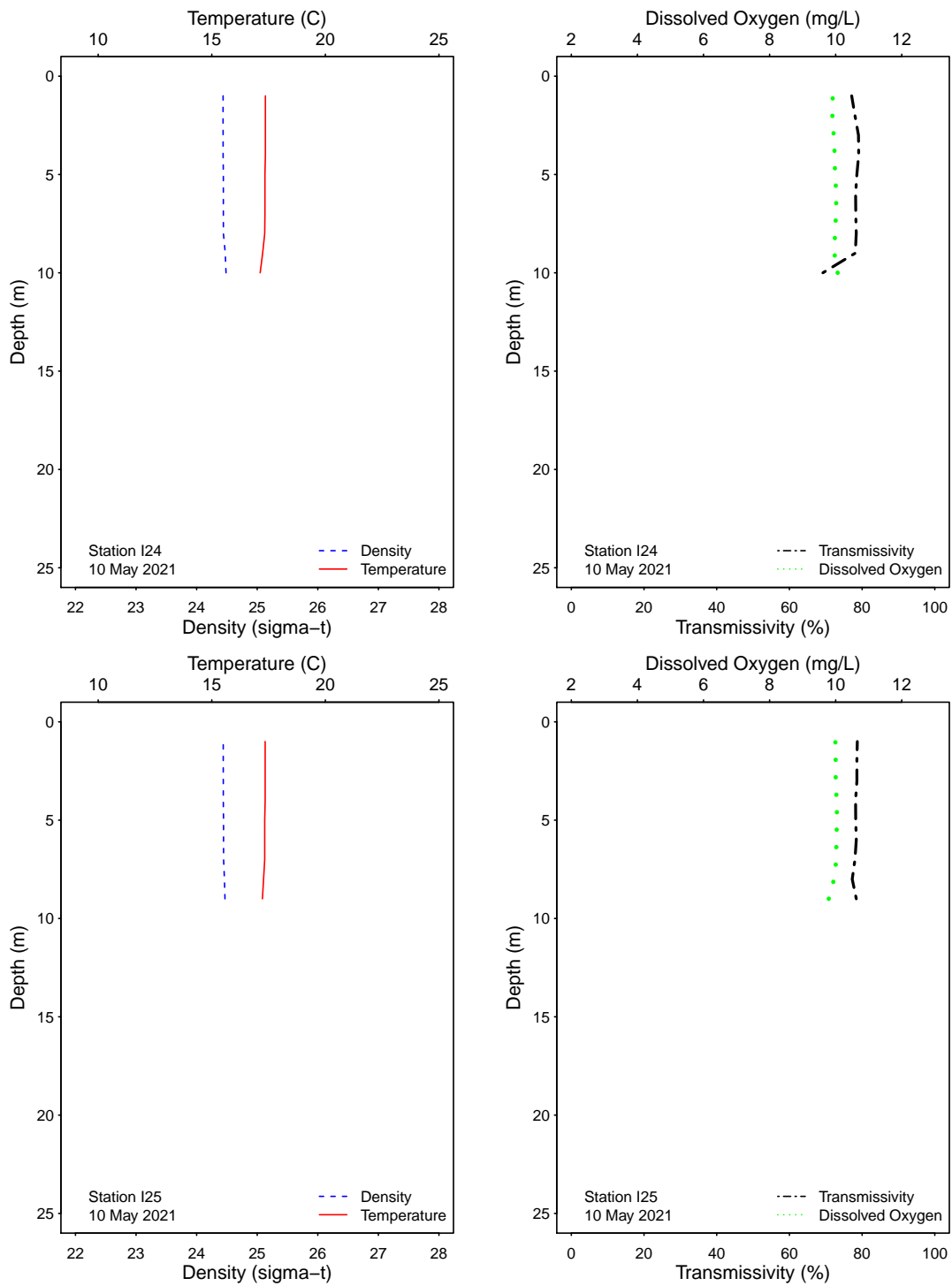


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

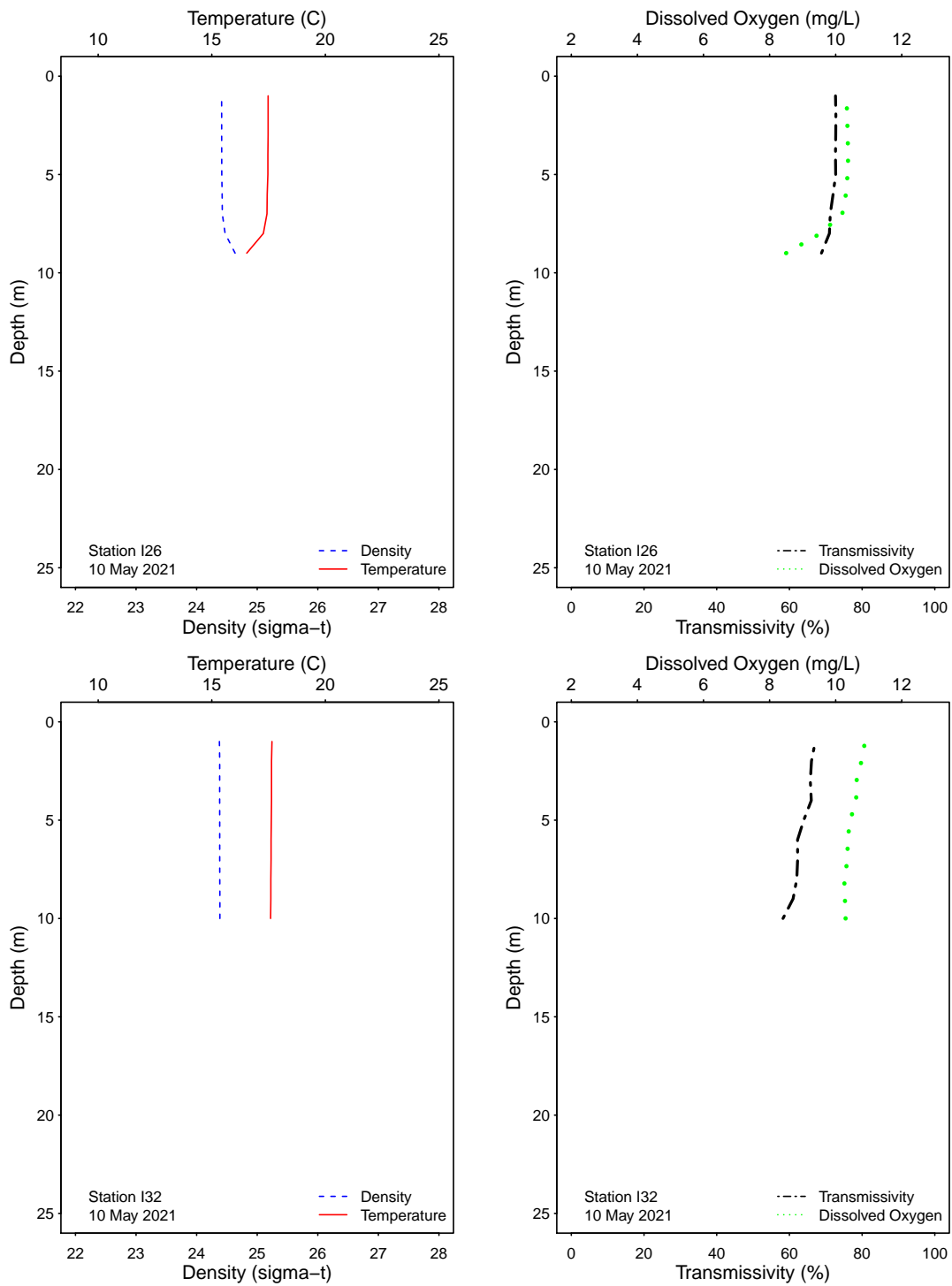


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

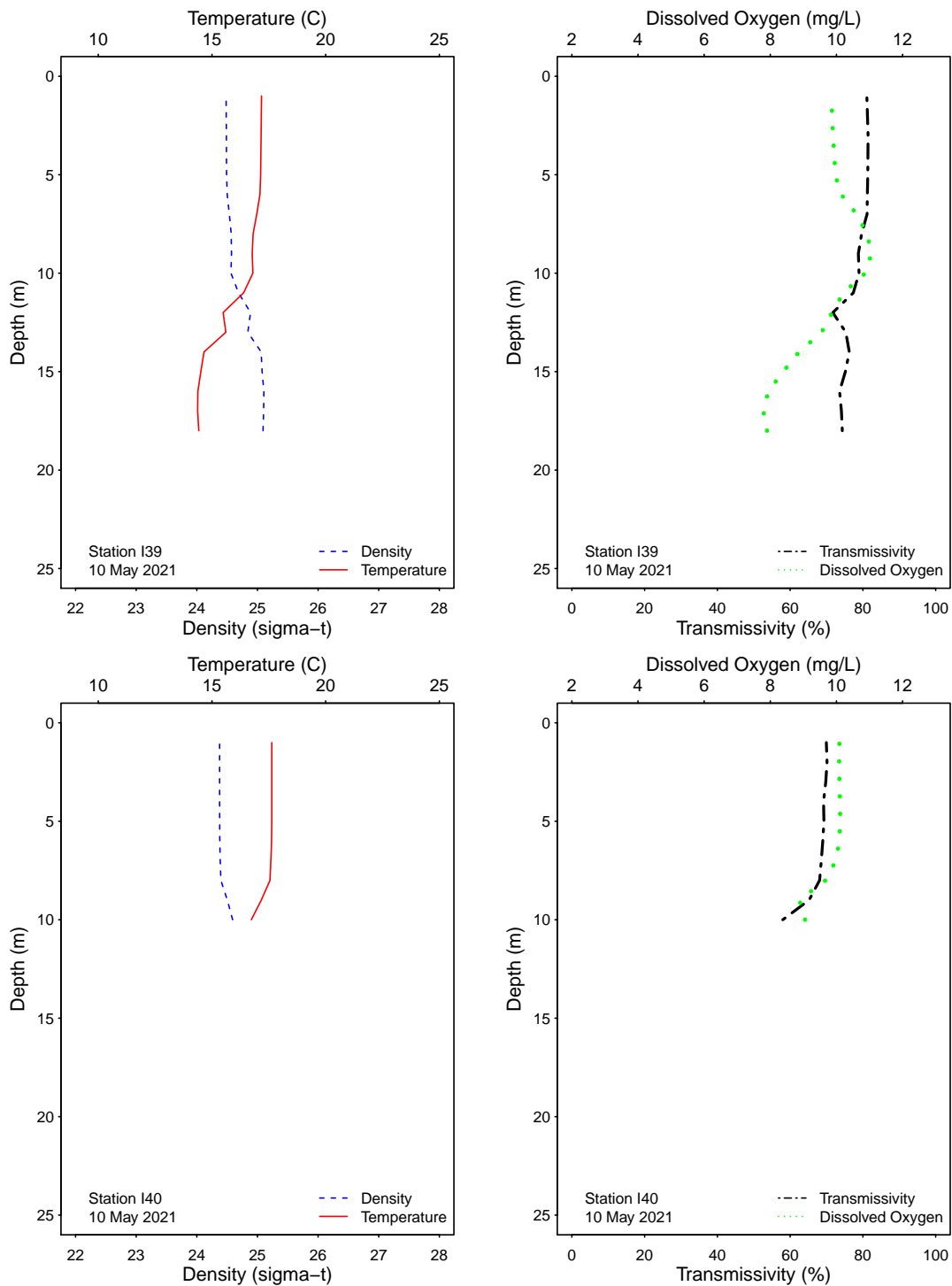


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

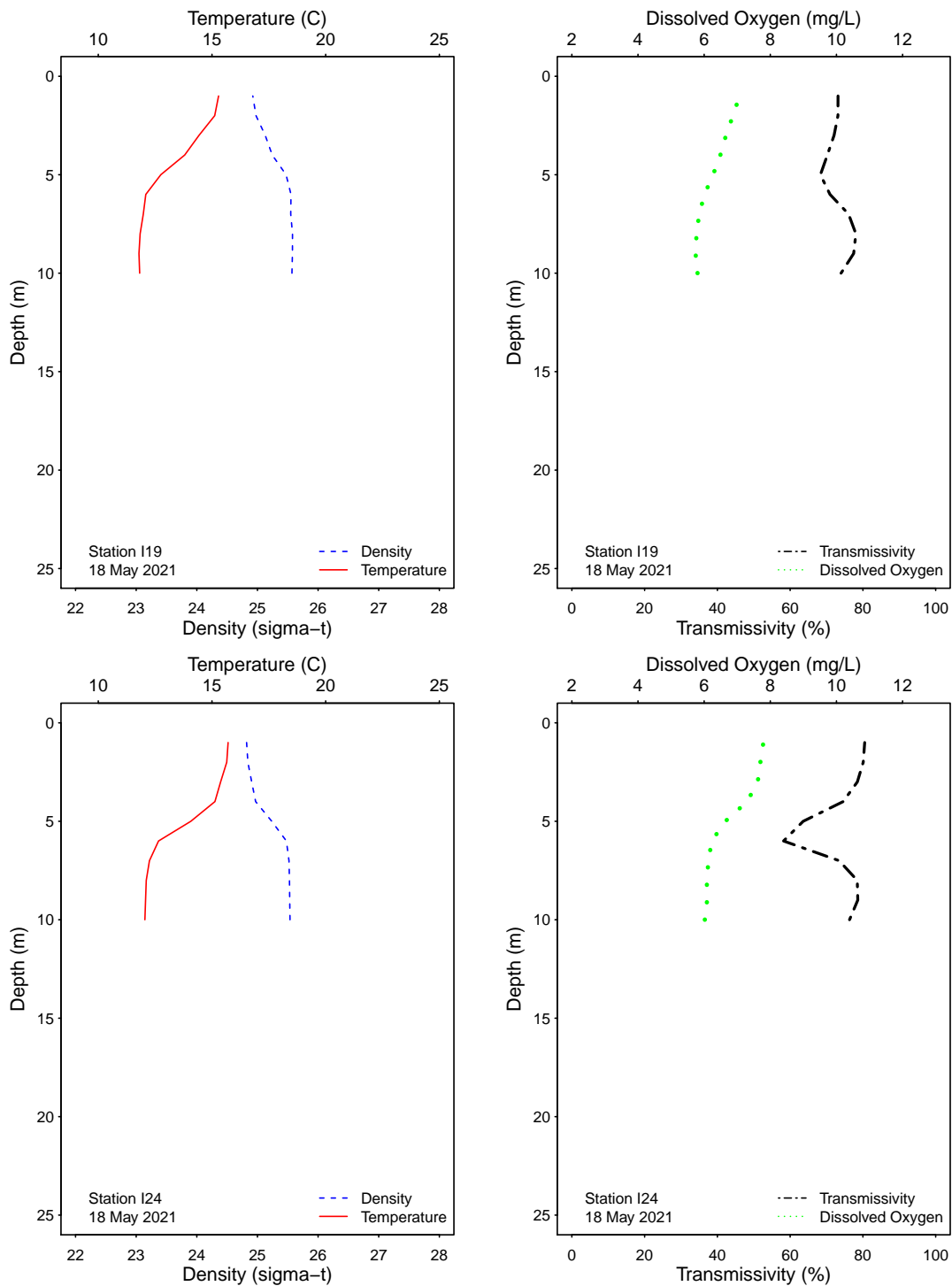


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

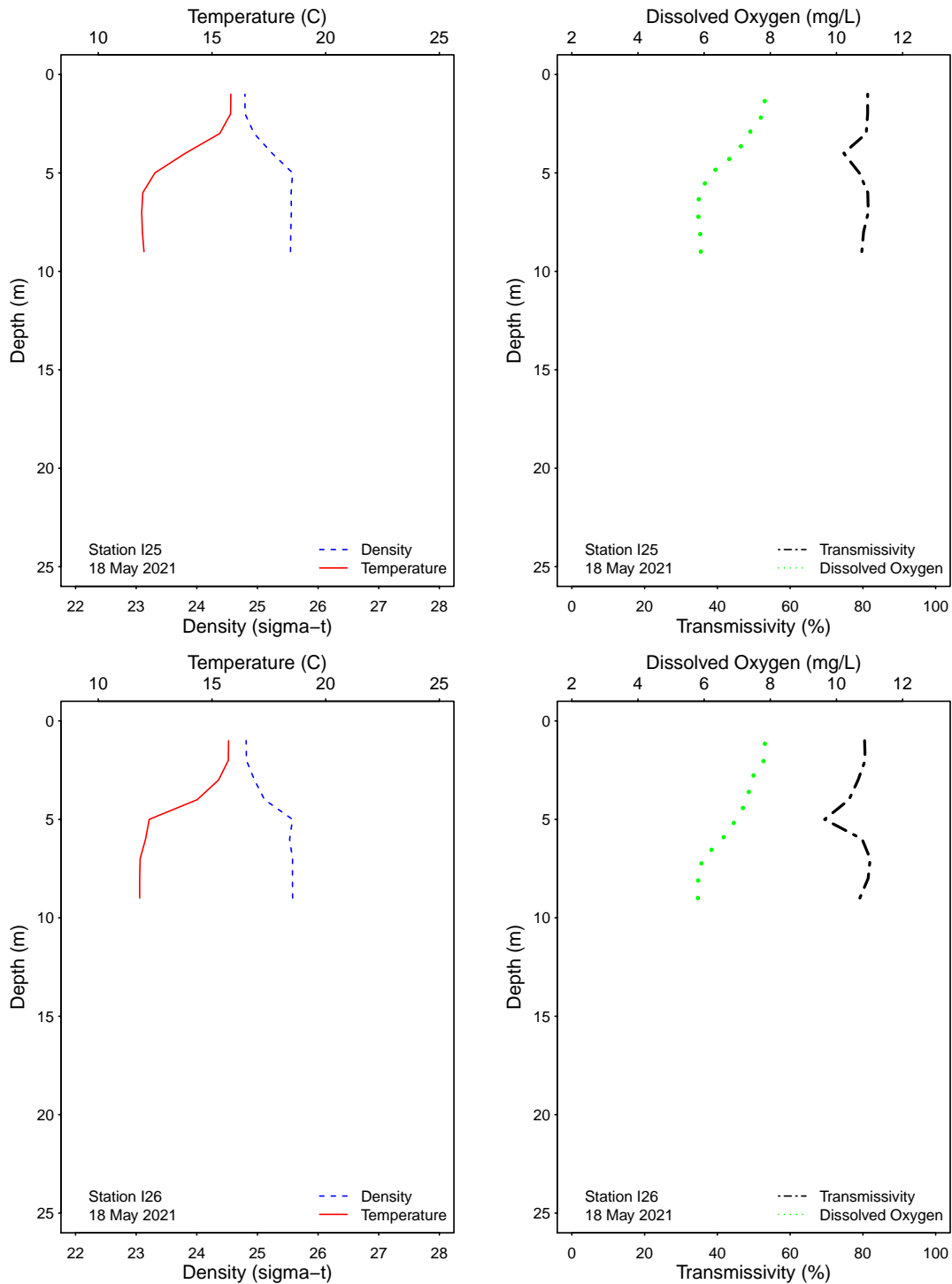


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

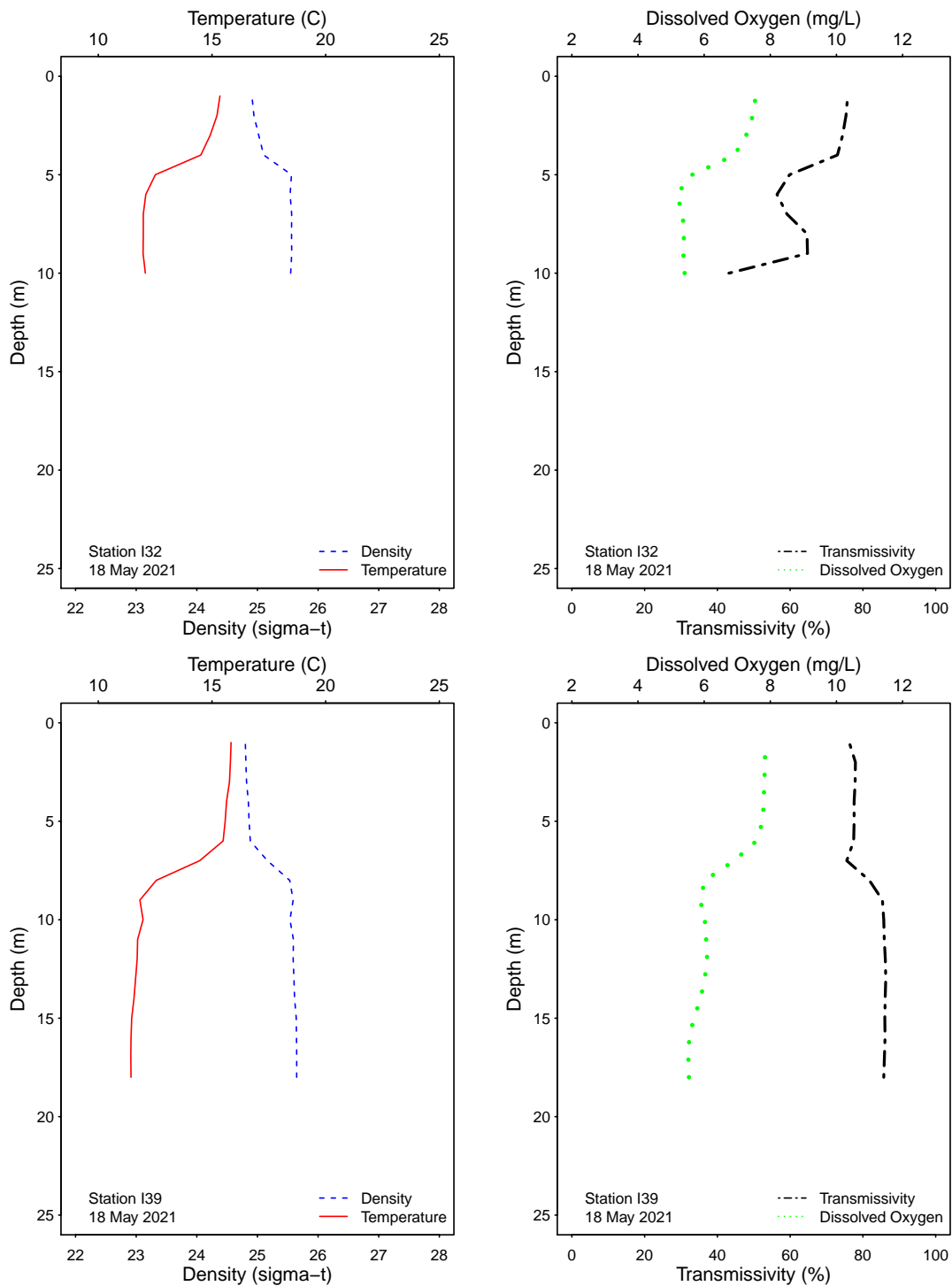


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

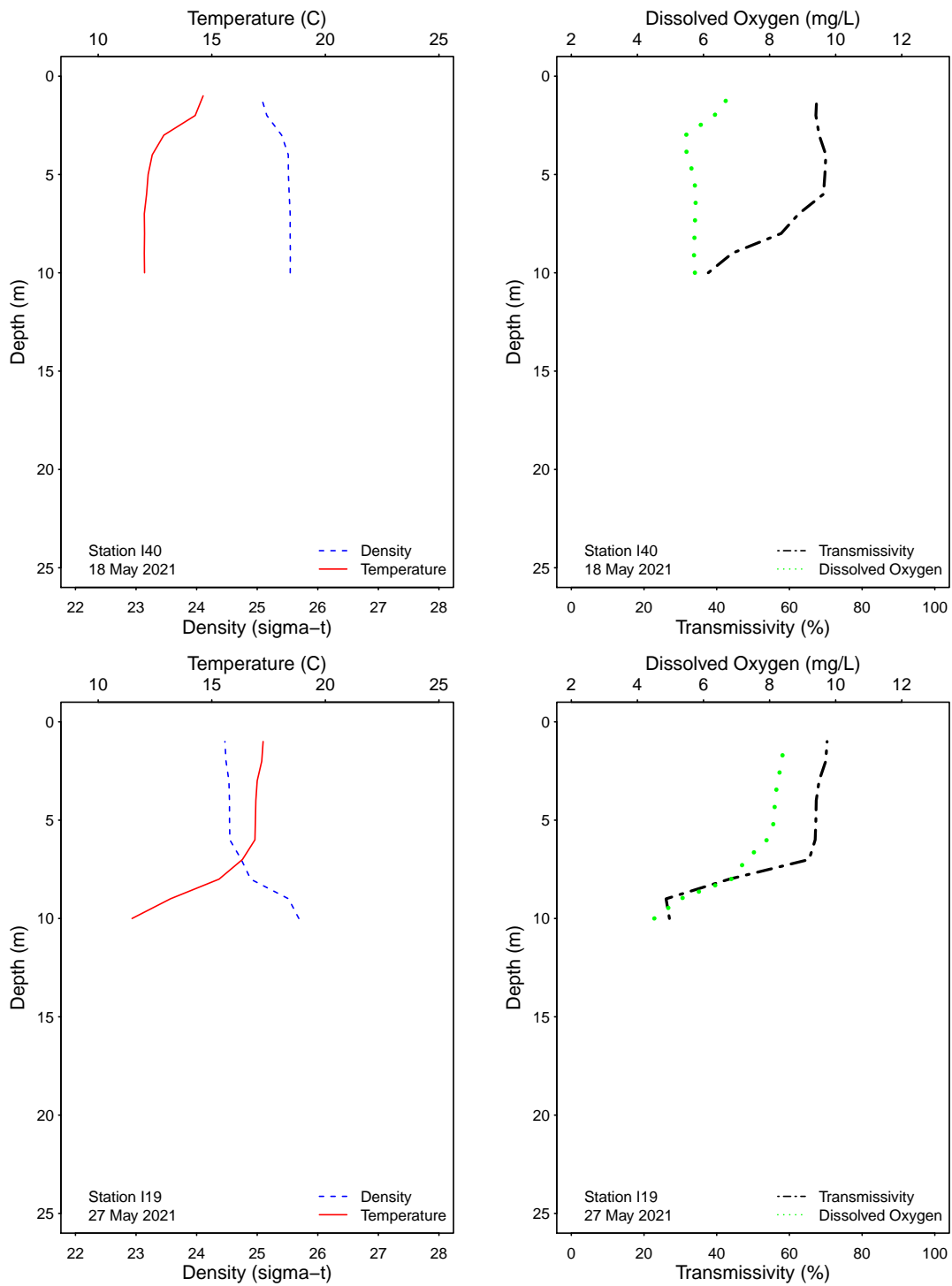


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

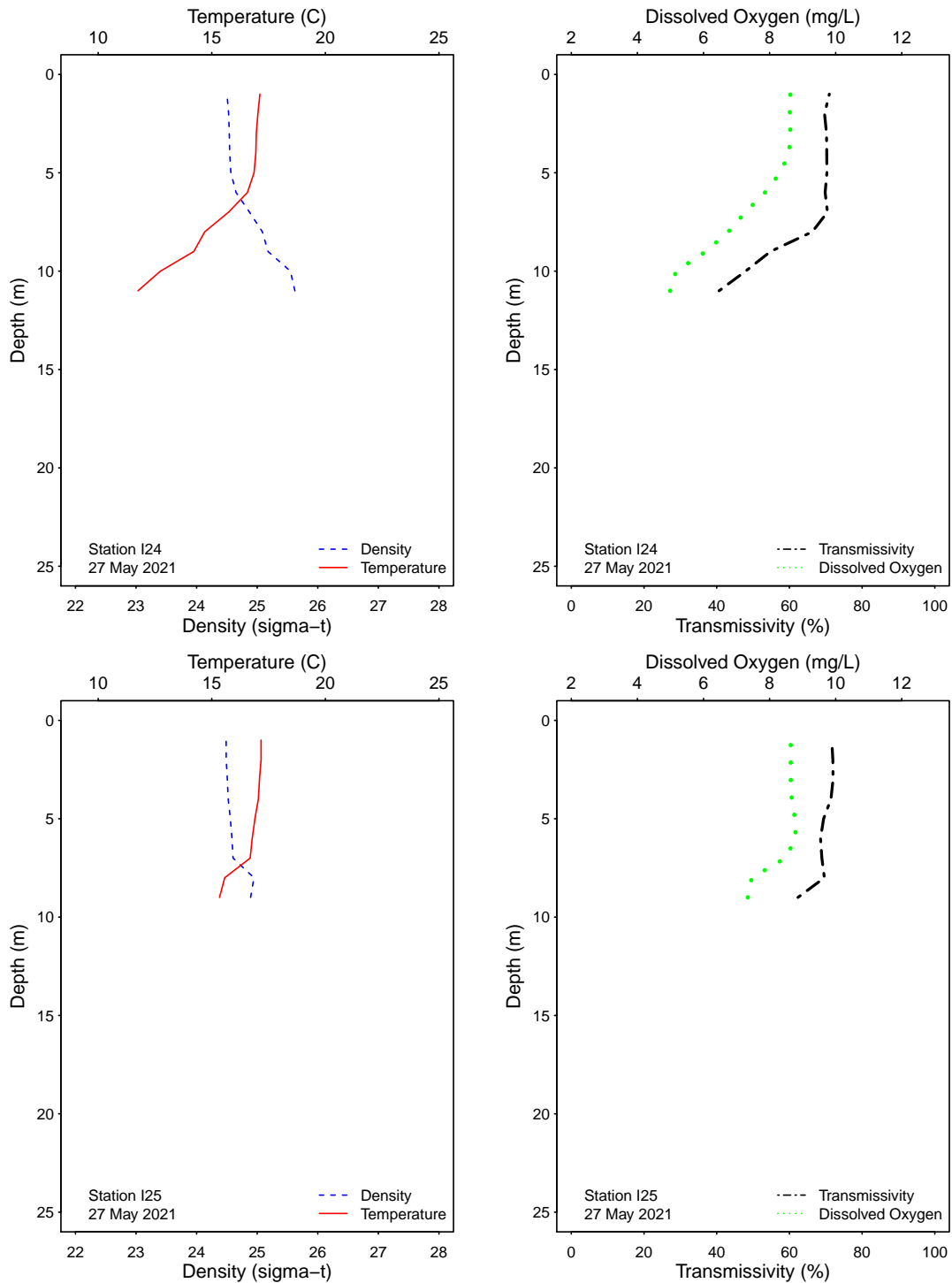


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

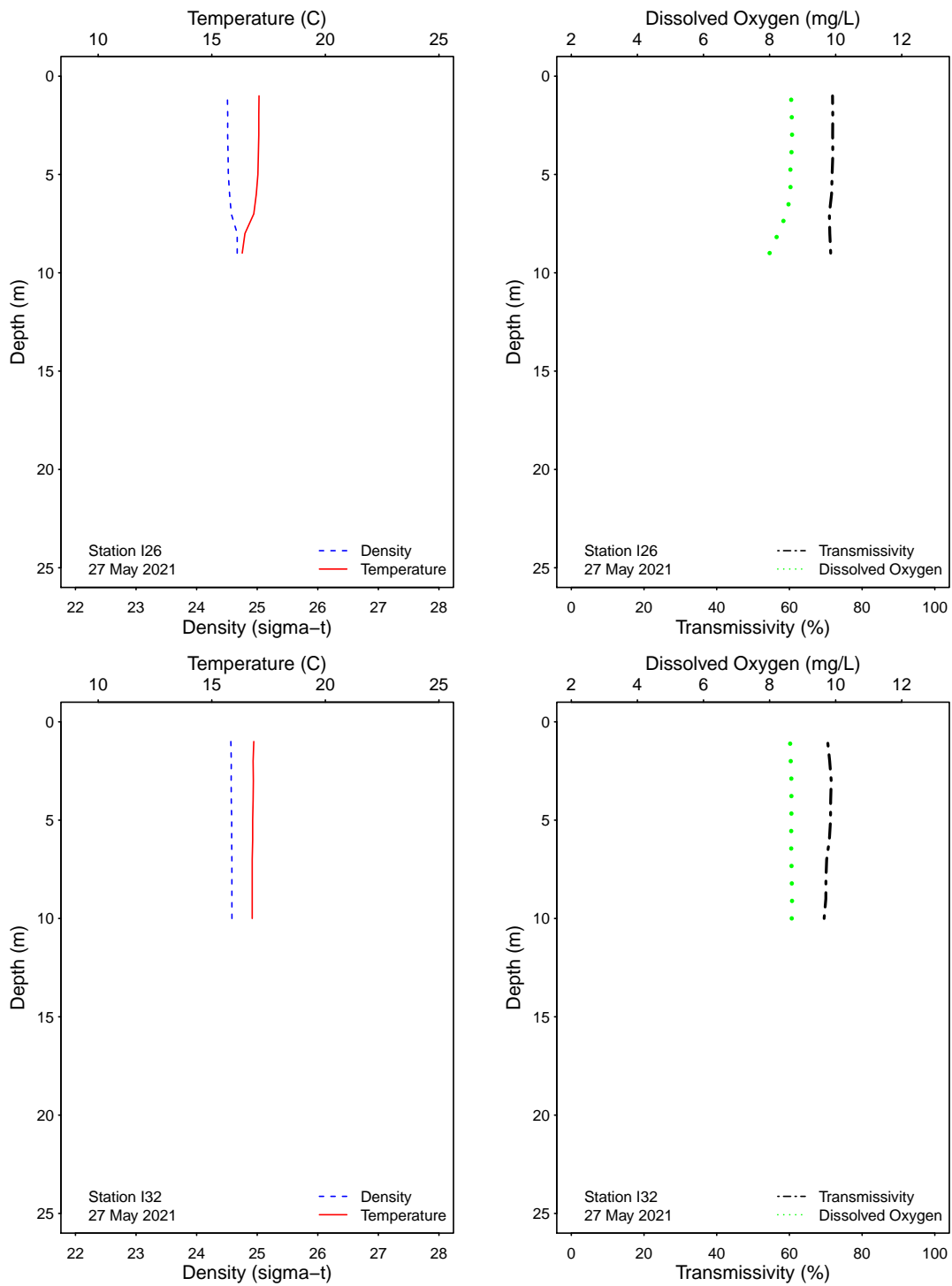


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

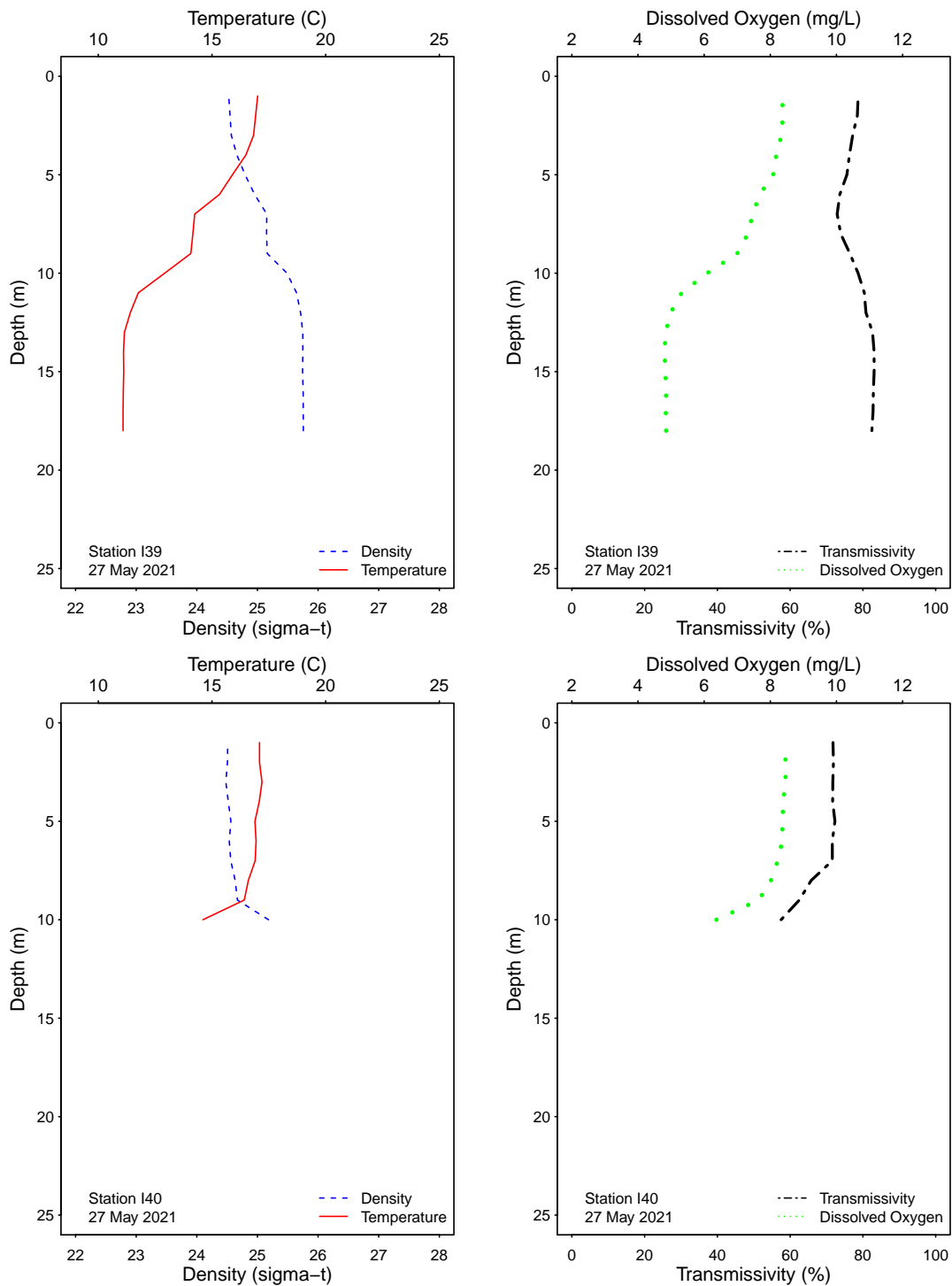


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

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Offshore Stations

Table 4.1

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

Date	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
05 May 2021	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC
06 May 2021	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 4.2

Summary of compliance with the Ocean Plan's 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
05 May 2021	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC
06 May 2021	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns

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
05 May 2021	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC
06 May 2021	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns

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
05 May 2021	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC
06 May 2021	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns

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	04 May 2021	1110	2	<2	<2	<2	1.00	16.4	74.00	10.0	33.68	8.2
I10	04 May 2021	1110	12	580	72	74	0.12	13.7	72.68	8.1	33.69	8.1
I10	04 May 2021	1110	18	160e	8e	8e	0.05	12.3	76.97	6.4	33.71	8.0
I11	04 May 2021	1056	2	<2	<2	<2	1.00	16.8	72.82	9.6	33.68	8.2
I11	04 May 2021	1056	6	680	20e	86	0.03	15.5	42.73	10.8	33.66	8.3
I11	04 May 2021	1056	11	13000	2000e	1200e	0.15	14.6	64.34	8.6	33.64	8.2
I12	06 May 2021	959	2	<2	<2	<2	1.00	17.1	74.99	9.7	33.70	8.3
I12	06 May 2021	959	18	<2	<2	<2	1.00	12.2	80.77	6.7	33.61	8.0
I12	06 May 2021	959	27	<2	<2	<2	1.00	11.9	81.84	5.7	33.72	7.9
I13	06 May 2021	1020	2	<2	<2	<2	1.00	17.3	78.17	9.3	33.68	8.2
I13	06 May 2021	1020	18	<2	<2	<2	1.00	11.9	82.99	6.0	33.60	8.0
I13	06 May 2021	1020	37	<2	<2	<2	1.00	11.3	83.86	5.1	33.67	7.9
I14	06 May 2021	1035	2	<2	<2	<2	1.00	17.1	73.39	9.7	33.70	8.3
I14	06 May 2021	1035	18	<2	<2	<2	1.00	12.3	75.47	6.9	33.58	8.0
I14	06 May 2021	1035	27	<2	<2	<2	1.00	12.0	81.23	5.8	33.72	7.9
I16	06 May 2021	949	2	<2	<2	<2	1.00	17.2	76.15	9.8	33.69	8.3
I16	06 May 2021	949	18	<2	<2	<2	1.00	12.2	80.70	6.7	33.60	8.0
I16	06 May 2021	949	27	4e	<2	<2	0.50	12.0	81.50	5.8	33.72	7.9
I18	06 May 2021	929	2	34e	6e	2e	0.18	17.4	70.10	9.8	33.68	8.3
I18	06 May 2021	929	12	<2	<2	<2	1.00	15.5	78.05	9.8	33.71	8.2
I18	06 May 2021	929	18	<2	<2	<2	1.00	12.6	76.82	6.3	33.69	8.0
I20	06 May 2021	816	2	<2	<2	<2	1.00	17.5	76.82	9.8	33.69	8.2
I20	06 May 2021	816	18	<2	<2	<2	1.00	12.7	79.36	6.7	33.64	8.0
I20	06 May 2021	816	55	<2	<2	<2	1.00	10.6	86.33	4.4	33.77	7.8
I21	06 May 2021	835	2	<2	<2	<2	1.00	17.2	77.69	9.5	33.69	8.2
I21	06 May 2021	835	18	<2	<2	<2	1.00	11.8	82.56	5.9	33.59	7.9
I21	06 May 2021	835	37	<2	<2	<2	1.00	11.1	84.40	4.8	33.69	7.8
I22	06 May 2021	907	2	<2	<2	<2	1.00	17.2	74.71	9.6	33.69	8.2
I22	06 May 2021	907	18	4e	<2	<2	0.50	12.1	80.02	6.3	33.68	8.0
I22	06 May 2021	907	27	4e	<2	2e	0.50	12.0	79.73	5.9	33.72	7.9
I23	06 May 2021	918	2	20e	<2	10e	0.10	17.3	64.05	10.4	33.67	8.3
I23	06 May 2021	918	12	<2	<2	<2	1.00	13.1	76.67	6.9	33.69	8.0
I23	06 May 2021	918	18	20e	<2	2e	0.10	12.7	75.98	6.4	33.70	8.0
I3	04 May 2021	1003	2	<2	<2	<2	1.00	17.1	81.18	8.3	33.67	8.2
I3	04 May 2021	1003	18	4e	<2	<2	0.50	11.6	79.04	5.7	33.68	7.9
I3	04 May 2021	1003	27	8e	<2	<2	0.25	11.3	81.43	5.1	33.70	7.9
I30	05 May 2021	1156	2	20e	<2	<2	0.10	17.4	56.38	13.4	33.71	8.5
I30	05 May 2021	1156	18	6e	2e	<2	0.33	11.6	82.73	5.7	33.61	7.9
I30	05 May 2021	1156	27	100e	6e	4e	0.06	11.6	75.69	5.4	33.70	7.9

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH
I33	05 May 2021	1030	2	10e	<2	<2	0.20	17.3	63.49	12.3	33.68	8.4
I33	05 May 2021	1030	18	<200	2e	4e	0.01	12.0	75.38	5.8	33.68	7.9
I33	05 May 2021	1030	27	14e	6e	<2	0.43	11.7	68.61	5.1	33.70	7.9
I36	05 May 2021	1228	2	2e	<2	<2	1.00	17.1	53.24	8.9	33.69	8.3
I36	05 May 2021	1228	6	80e	4e	<2	0.05	16.0	52.74	8.0	33.70	8.2
I36	05 May 2021	1228	11	20e	6e	<2	0.30	13.8	45.65	6.8	33.66	8.0
I37	05 May 2021	1009	2	<2	<2	<2	1.00	16.9	69.25	11.3	33.67	8.3
I37	05 May 2021	1009	6	40e	<2	6e	0.05	15.7	66.90	9.9	33.70	8.3
I37	05 May 2021	1009	11	20e	<2	2e	0.10	13.7	70.08	6.5	33.72	8.0
I38	05 May 2021	1258	2	<2	<2	<2	1.00	17.4	69.68	10.3	33.69	8.3
I38	05 May 2021	1258	6	<2	<2	<2	1.00	15.8	57.17	10.6	33.71	8.3
I38	05 May 2021	1258	11	20e	2e	<2	0.10	13.8	54.40	6.3	33.67	8.0
I5	04 May 2021	1028	2	12e	2e	2e	0.17	16.7	74.81	10.1	33.68	8.2
I5	04 May 2021	1028	6	1600e	180e	180e	0.11	15.8	47.06	11.6	33.65	8.3
I5	04 May 2021	1028	11	10000	1600e	1800e	0.16	14.9	59.03	9.4	33.64	8.2
I7	04 May 2021	852	2	<2	<2	<2	1.00	16.8	77.16	9.1	33.68	8.2
I7	04 May 2021	852	18	<2	<2	<2	1.00	12.3	79.97	6.1	33.67	7.9
I7	04 May 2021	852	52	<2	<2	<2	1.00	10.5	86.93	4.3	33.81	7.8
I8	04 May 2021	1134	2	<2	<2	<2	1.00	16.8	69.39	9.1	33.71	8.2
I8	04 May 2021	1134	18	<2	<2	<2	1.00	11.6	84.89	5.6	33.63	7.9
I8	04 May 2021	1134	37	12e	8e	2e	0.67	10.9	81.20	4.6	33.73	7.8
I9	04 May 2021	1122	2	<2	<2	<2	1.00	17.3	77.14	8.7	33.69	8.2
I9	04 May 2021	1122	18	2e	<2	<2	1.00	11.5	84.73	5.6	33.67	7.9
I9	04 May 2021	1122	27	<2	<2	<2	1.00	11.2	81.67	4.9	33.69	7.8

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	04 May 2021	Depth (m)	60.6
I1	04 May 2021	Arrive Time	915
I1	04 May 2021	Depart Time	940
I1	04 May 2021	Air Temp (C)	15.5
I1	04 May 2021	Weather	Overcast
I1	04 May 2021	Visibility (mi)	2
I1	04 May 2021	Wind Speed (kts)	1.1
I1	04 May 2021	Wind Dir	NW
I1	04 May 2021	Water Color	Green
I1	04 May 2021	Wave Ht Low (ft)	5
I1	04 May 2021	Wave Period (sec)	15
I1	04 May 2021	Sea State	Wind Ripples
I1	04 May 2021	High Tide (ft)	4.16687
I1	04 May 2021	High Tide Time	354
I1	04 May 2021	Low Tide (ft)	-0.19686
I1	04 May 2021	Low Tide Time	1124
I1	04 May 2021	Comments	OA 18393 60m Niskin 1; OA 18394 60m dup Niskin 2; OA 18395 15m Niskin 4; OA 18396 1m Niskin 6
I10	04 May 2021	Depth (m)	19.1
I10	04 May 2021	Arrive Time	1110
I10	04 May 2021	Depart Time	1114
I10	04 May 2021	Air Temp (C)	16.1
I10	04 May 2021	Weather	Overcast
I10	04 May 2021	Visibility (mi)	7
I10	04 May 2021	Wind Speed (kts)	1.3
I10	04 May 2021	Wind Dir	S
I10	04 May 2021	Water Color	Green
I10	04 May 2021	Wave Ht Low (ft)	5
I10	04 May 2021	Wave Period (sec)	15
I10	04 May 2021	Sea State	Wind Ripples
I10	04 May 2021	High Tide (ft)	4.16687
I10	04 May 2021	High Tide Time	354
I10	04 May 2021	Low Tide (ft)	-0.19686
I10	04 May 2021	Low Tide Time	1124
I10	04 May 2021	Comments	none
I11	04 May 2021	Depth (m)	12.2
I11	04 May 2021	Arrive Time	1056
I11	04 May 2021	Depart Time	1104
I11	04 May 2021	Air Temp (C)	16.2
I11	04 May 2021	Weather	Overcast
I11	04 May 2021	Visibility (mi)	7
I11	04 May 2021	Wind Speed (kts)	0
I11	04 May 2021	Wind Dir	W
I11	04 May 2021	Water Color	Green
I11	04 May 2021	Wave Ht Low (ft)	5
I11	04 May 2021	Wave Period (sec)	15
I11	04 May 2021	Sea State	Wind Ripples
I11	04 May 2021	High Tide (ft)	4.16687
I11	04 May 2021	High Tide Time	354
I11	04 May 2021	Low Tide (ft)	-0.19686
I11	04 May 2021	Low Tide Time	1124
I11	04 May 2021	Comments	none
I12	06 May 2021	Depth (m)	29.1

Station	Date	Parameter	Value
I12	06 May 2021	Arrive Time	959
I12	06 May 2021	Depart Time	1005
I12	06 May 2021	Air Temp (C)	15.2
I12	06 May 2021	Weather	Overcast
I12	06 May 2021	Visibility (mi)	5
I12	06 May 2021	Wind Speed (kts)	7.3
I12	06 May 2021	Wind Dir	S
I12	06 May 2021	Water Color	Greenish-Brown
I12	06 May 2021	Wave Ht Low (ft)	3
I12	06 May 2021	Wave Period (sec)	13
I12	06 May 2021	Sea State	Calm
I12	06 May 2021	High Tide (ft)	4.65902
I12	06 May 2021	High Tide Time	1930
I12	06 May 2021	Low Tide (ft)	0.13124
I12	06 May 2021	Low Tide Time	1248
I12	06 May 2021	Comments	none
I13	06 May 2021	Depth (m)	38.4
I13	06 May 2021	Arrive Time	1020
I13	06 May 2021	Depart Time	1027
I13	06 May 2021	Air Temp (C)	15.5
I13	06 May 2021	Weather	Overcast
I13	06 May 2021	Visibility (mi)	5
I13	06 May 2021	Wind Speed (kts)	7.4
I13	06 May 2021	Wind Dir	SW
I13	06 May 2021	Water Color	Blueish-Green
I13	06 May 2021	Wave Ht Low (ft)	3
I13	06 May 2021	Wave Period (sec)	13
I13	06 May 2021	Sea State	Calm
I13	06 May 2021	High Tide (ft)	4.65902
I13	06 May 2021	High Tide Time	1930
I13	06 May 2021	Low Tide (ft)	0.13124
I13	06 May 2021	Low Tide Time	1248
I13	06 May 2021	Comments	none
I14	06 May 2021	Depth (m)	28.1
I14	06 May 2021	Arrive Time	1035
I14	06 May 2021	Depart Time	1040
I14	06 May 2021	Air Temp (C)	15.4
I14	06 May 2021	Weather	Overcast
I14	06 May 2021	Visibility (mi)	5
I14	06 May 2021	Wind Speed (kts)	4
I14	06 May 2021	Wind Dir	S
I14	06 May 2021	Water Color	Green
I14	06 May 2021	Wave Ht Low (ft)	3
I14	06 May 2021	Wave Period (sec)	13
I14	06 May 2021	Sea State	Calm
I14	06 May 2021	High Tide (ft)	4.65902
I14	06 May 2021	High Tide Time	1930
I14	06 May 2021	Low Tide (ft)	0.13124
I14	06 May 2021	Low Tide Time	1248
I14	06 May 2021	Comments	none
I15	06 May 2021	Depth (m)	31.3
I15	06 May 2021	Arrive Time	1010
I15	06 May 2021	Depart Time	1014
I15	06 May 2021	Air Temp (C)	15.5
I15	06 May 2021	Weather	Overcast
I15	06 May 2021	Visibility (mi)	5
I15	06 May 2021	Wind Speed (kts)	3.4
I15	06 May 2021	Wind Dir	SW

Station	Date	Parameter	Value
I15	06 May 2021	Water Color	Greenish-Brown
I15	06 May 2021	Wave Ht Low (ft)	3
I15	06 May 2021	Wave Period (sec)	13
I15	06 May 2021	Sea State	Calm
I15	06 May 2021	High Tide (ft)	4.65902
I15	06 May 2021	High Tide Time	1930
I15	06 May 2021	Low Tide (ft)	0.13124
I15	06 May 2021	Low Tide Time	1248
I15	06 May 2021	Comments	none
I16	06 May 2021	Depth (m)	28.4
I16	06 May 2021	Arrive Time	949
I16	06 May 2021	Depart Time	953
I16	06 May 2021	Air Temp (C)	15.3
I16	06 May 2021	Weather	Overcast
I16	06 May 2021	Visibility (mi)	5
I16	06 May 2021	Wind Speed (kts)	0
I16	06 May 2021	Wind Dir	NW
I16	06 May 2021	Water Color	Greenish-Brown
I16	06 May 2021	Wave Ht Low (ft)	3
I16	06 May 2021	Wave Period (sec)	13
I16	06 May 2021	Sea State	Calm
I16	06 May 2021	High Tide (ft)	4.65902
I16	06 May 2021	High Tide Time	1930
I16	06 May 2021	Low Tide (ft)	0.13124
I16	06 May 2021	Low Tide Time	1248
I16	06 May 2021	Comments	none
I17	06 May 2021	Depth (m)	25.7
I17	06 May 2021	Arrive Time	940
I17	06 May 2021	Depart Time	946
I17	06 May 2021	Air Temp (C)	15.3
I17	06 May 2021	Weather	Fog
I17	06 May 2021	Visibility (mi)	2
I17	06 May 2021	Wind Speed (kts)	11.2
I17	06 May 2021	Wind Dir	SW
I17	06 May 2021	Water Color	Greenish-Brown
I17	06 May 2021	Wave Ht Low (ft)	3
I17	06 May 2021	Wave Period (sec)	13
I17	06 May 2021	Sea State	Calm
I17	06 May 2021	High Tide (ft)	4.65902
I17	06 May 2021	High Tide Time	1930
I17	06 May 2021	Low Tide (ft)	0.13124
I17	06 May 2021	Low Tide Time	1248
I17	06 May 2021	Comments	none
I18	06 May 2021	Depth (m)	19.8
I18	06 May 2021	Arrive Time	929
I18	06 May 2021	Depart Time	934
I18	06 May 2021	Air Temp (C)	15.1
I18	06 May 2021	Weather	Fog
I18	06 May 2021	Visibility (mi)	2
I18	06 May 2021	Wind Speed (kts)	10.2
I18	06 May 2021	Wind Dir	S
I18	06 May 2021	Water Color	Greenish-Brown
I18	06 May 2021	Wave Ht Low (ft)	3
I18	06 May 2021	Wave Period (sec)	13
I18	06 May 2021	Sea State	Calm
I18	06 May 2021	High Tide (ft)	4.65902
I18	06 May 2021	High Tide Time	1930
I18	06 May 2021	Low Tide (ft)	0.13124

Station	Date	Parameter	Value
I18	06 May 2021	Low Tide Time	1248
I18	06 May 2021	Comments	none
I2	04 May 2021	Depth (m)	32.6
I2	04 May 2021	Arrive Time	951
I2	04 May 2021	Depart Time	956
I2	04 May 2021	Air Temp (C)	16.1
I2	04 May 2021	Weather	Overcast
I2	04 May 2021	Visibility (mi)	7
I2	04 May 2021	Wind Speed (kts)	1
I2	04 May 2021	Wind Dir	E
I2	04 May 2021	Water Color	Green
I2	04 May 2021	Wave Ht Low (ft)	5
I2	04 May 2021	Wave Period (sec)	15
I2	04 May 2021	Sea State	Wind Ripples
I2	04 May 2021	High Tide (ft)	4.16687
I2	04 May 2021	High Tide Time	354
I2	04 May 2021	Low Tide (ft)	-0.19686
I2	04 May 2021	Low Tide Time	1124
I2	04 May 2021	Comments	none
I20	06 May 2021	Depth (m)	55.4
I20	06 May 2021	Arrive Time	816
I20	06 May 2021	Depart Time	824
I20	06 May 2021	Air Temp (C)	15
I20	06 May 2021	Weather	Fog
I20	06 May 2021	Visibility (mi)	2
I20	06 May 2021	Wind Speed (kts)	6.9
I20	06 May 2021	Wind Dir	S
I20	06 May 2021	Water Color	Green
I20	06 May 2021	Wave Ht Low (ft)	3
I20	06 May 2021	Wave Period (sec)	13
I20	06 May 2021	Sea State	Calm
I20	06 May 2021	High Tide (ft)	4.65902
I20	06 May 2021	High Tide Time	1930
I20	06 May 2021	Low Tide (ft)	0.13124
I20	06 May 2021	Low Tide Time	1248
I20	06 May 2021	Comments	none
I21	06 May 2021	Depth (m)	41.4
I21	06 May 2021	Arrive Time	835
I21	06 May 2021	Depart Time	839
I21	06 May 2021	Air Temp (C)	15
I21	06 May 2021	Weather	Fog
I21	06 May 2021	Visibility (mi)	2
I21	06 May 2021	Wind Speed (kts)	0
I21	06 May 2021	Wind Dir	E
I21	06 May 2021	Water Color	Green
I21	06 May 2021	Wave Ht Low (ft)	3
I21	06 May 2021	Wave Period (sec)	13
I21	06 May 2021	Sea State	Calm
I21	06 May 2021	High Tide (ft)	4.65902
I21	06 May 2021	High Tide Time	1930
I21	06 May 2021	Low Tide (ft)	0.13124
I21	06 May 2021	Low Tide Time	1248
I21	06 May 2021	Comments	OA: 18399 - 1m - CTD btl 1; 18400 - 41 - CTD btl 4
I22	06 May 2021	Depth (m)	28.5
I22	06 May 2021	Arrive Time	907
I22	06 May 2021	Depart Time	911
I22	06 May 2021	Air Temp (C)	15.1

Station	Date	Parameter	Value
I22	06 May 2021	Weather	Fog
I22	06 May 2021	Visibility (mi)	2
I22	06 May 2021	Wind Speed (kts)	2.1
I22	06 May 2021	Wind Dir	SE
I22	06 May 2021	Water Color	Green
I22	06 May 2021	Wave Ht Low (ft)	3
I22	06 May 2021	Wave Period (sec)	13
I22	06 May 2021	Sea State	Calm
I22	06 May 2021	High Tide (ft)	4.65902
I22	06 May 2021	High Tide Time	1930
I22	06 May 2021	Low Tide (ft)	0.13124
I22	06 May 2021	Low Tide Time	1248
I22	06 May 2021	Comments	none
I23	06 May 2021	Depth (m)	21.4
I23	06 May 2021	Arrive Time	918
I23	06 May 2021	Depart Time	923
I23	06 May 2021	Air Temp (C)	15.2
I23	06 May 2021	Weather	Fog
I23	06 May 2021	Visibility (mi)	2
I23	06 May 2021	Wind Speed (kts)	1
I23	06 May 2021	Wind Dir	SE
I23	06 May 2021	Water Color	Greenish-Brown
I23	06 May 2021	Wave Ht Low (ft)	3
I23	06 May 2021	Wave Period (sec)	13
I23	06 May 2021	Sea State	Calm
I23	06 May 2021	High Tide (ft)	4.65902
I23	06 May 2021	High Tide Time	1930
I23	06 May 2021	Low Tide (ft)	0.13124
I23	06 May 2021	Low Tide Time	1248
I23	06 May 2021	Comments	none
I27	06 May 2021	Depth (m)	29.4
I27	06 May 2021	Arrive Time	854
I27	06 May 2021	Depart Time	903
I27	06 May 2021	Air Temp (C)	15.1
I27	06 May 2021	Weather	Fog
I27	06 May 2021	Visibility (mi)	2
I27	06 May 2021	Wind Speed (kts)	0.5
I27	06 May 2021	Wind Dir	NE
I27	06 May 2021	Water Color	Green
I27	06 May 2021	Wave Ht Low (ft)	3
I27	06 May 2021	Wave Period (sec)	13
I27	06 May 2021	Sea State	Calm
I27	06 May 2021	High Tide (ft)	4.65902
I27	06 May 2021	High Tide Time	1930
I27	06 May 2021	Low Tide (ft)	0.13124
I27	06 May 2021	Low Tide Time	1248
I27	06 May 2021	Comments	none
I28	05 May 2021	Depth (m)	57
I28	05 May 2021	Arrive Time	1044
I28	05 May 2021	Depart Time	1050
I28	05 May 2021	Air Temp (C)	15.7
I28	05 May 2021	Weather	Overcast
I28	05 May 2021	Visibility (mi)	7
I28	05 May 2021	Wind Speed (kts)	0.7
I28	05 May 2021	Wind Dir	N
I28	05 May 2021	Water Color	Green
I28	05 May 2021	Wave Ht Low (ft)	2
I28	05 May 2021	Wave Period (sec)	8

Station	Date	Parameter	Value
I28	05 May 2021	Sea State	Calm
I28	05 May 2021	High Tide (ft)	4.36373
I28	05 May 2021	High Tide Time	1854
I28	05 May 2021	Low Tide (ft)	-0.06562
I28	05 May 2021	Low Tide Time	1212
I28	05 May 2021	Comments	18397 OA sample @55m; 18398 OA sample @11m
I29	05 May 2021	Depth (m)	37
I29	05 May 2021	Arrive Time	1104
I29	05 May 2021	Depart Time	1106
I29	05 May 2021	Air Temp (C)	15.8
I29	05 May 2021	Weather	Overcast
I29	05 May 2021	Visibility (mi)	7
I29	05 May 2021	Wind Speed (kts)	2.6
I29	05 May 2021	Wind Dir	W
I29	05 May 2021	Water Color	Green
I29	05 May 2021	Wave Ht Low (ft)	2
I29	05 May 2021	Wave Period (sec)	8
I29	05 May 2021	Sea State	Calm
I29	05 May 2021	High Tide (ft)	4.36373
I29	05 May 2021	High Tide Time	1854
I29	05 May 2021	Low Tide (ft)	-0.06562
I29	05 May 2021	Low Tide Time	1212
I29	05 May 2021	Comments	none
I3	04 May 2021	Depth (m)	25.8
I3	04 May 2021	Arrive Time	1003
I3	04 May 2021	Depart Time	1011
I3	04 May 2021	Air Temp (C)	16.2
I3	04 May 2021	Weather	Overcast
I3	04 May 2021	Visibility (mi)	7
I3	04 May 2021	Wind Speed (kts)	3.5
I3	04 May 2021	Wind Dir	W
I3	04 May 2021	Water Color	Green
I3	04 May 2021	Wave Ht Low (ft)	5
I3	04 May 2021	Wave Period (sec)	15
I3	04 May 2021	Sea State	Wind Ripples
I3	04 May 2021	High Tide (ft)	4.16687
I3	04 May 2021	High Tide Time	354
I3	04 May 2021	Low Tide (ft)	-0.19686
I3	04 May 2021	Low Tide Time	1124
I3	04 May 2021	Comments	Niskin 2 no fire; VanDorn bottle at 18m
I30	05 May 2021	Depth (m)	27.7
I30	05 May 2021	Arrive Time	1156
I30	05 May 2021	Depart Time	1200
I30	05 May 2021	Air Temp (C)	15.8
I30	05 May 2021	Weather	Partly Cloudy
I30	05 May 2021	Visibility (mi)	11
I30	05 May 2021	Wind Speed (kts)	8.5
I30	05 May 2021	Wind Dir	SW
I30	05 May 2021	Water Color	Yellowish-Brown
I30	05 May 2021	Wave Ht Low (ft)	2
I30	05 May 2021	Wave Period (sec)	8
I30	05 May 2021	Sea State	Light Chop
I30	05 May 2021	High Tide (ft)	4.36373
I30	05 May 2021	High Tide Time	1854
I30	05 May 2021	Low Tide (ft)	-0.06562
I30	05 May 2021	Low Tide Time	1212
I30	05 May 2021	Comments	none

Station	Date	Parameter	Value
I31	05 May 2021	Depth (m)	19
I31	05 May 2021	Arrive Time	1208
I31	05 May 2021	Depart Time	1211
I31	05 May 2021	Air Temp (C)	16.2
I31	05 May 2021	Weather	Partly Cloudy
I31	05 May 2021	Visibility (mi)	11
I31	05 May 2021	Wind Speed (kts)	8.2
I31	05 May 2021	Wind Dir	S
I31	05 May 2021	Water Color	Yellowish-Brown
I31	05 May 2021	Wave Ht Low (ft)	2
I31	05 May 2021	Wave Period (sec)	8
I31	05 May 2021	Sea State	Light Chop
I31	05 May 2021	High Tide (ft)	4.36373
I31	05 May 2021	High Tide Time	1854
I31	05 May 2021	Low Tide (ft)	-0.06562
I31	05 May 2021	Low Tide Time	1212
I31	05 May 2021	Comments	none
I33	05 May 2021	Depth (m)	30
I33	05 May 2021	Arrive Time	1030
I33	05 May 2021	Depart Time	1034
I33	05 May 2021	Air Temp (C)	15.5
I33	05 May 2021	Weather	Fog
I33	05 May 2021	Visibility (mi)	6
I33	05 May 2021	Wind Speed (kts)	0
I33	05 May 2021	Wind Dir	N
I33	05 May 2021	Water Color	Brownish-Green
I33	05 May 2021	Wave Ht Low (ft)	2
I33	05 May 2021	Wave Period (sec)	8
I33	05 May 2021	Sea State	Calm
I33	05 May 2021	High Tide (ft)	4.36373
I33	05 May 2021	High Tide Time	1854
I33	05 May 2021	Low Tide (ft)	-0.06562
I33	05 May 2021	Low Tide Time	1212
I33	05 May 2021	Comments	none
I34	05 May 2021	Depth (m)	18.9
I34	05 May 2021	Arrive Time	1019
I34	05 May 2021	Depart Time	1024
I34	05 May 2021	Air Temp (C)	15.6
I34	05 May 2021	Weather	Fog
I34	05 May 2021	Visibility (mi)	6
I34	05 May 2021	Wind Speed (kts)	4.2
I34	05 May 2021	Wind Dir	W
I34	05 May 2021	Water Color	Brownish-Green
I34	05 May 2021	Wave Ht Low (ft)	2
I34	05 May 2021	Wave Period (sec)	8
I34	05 May 2021	Sea State	Calm
I34	05 May 2021	High Tide (ft)	4.36373
I34	05 May 2021	High Tide Time	1854
I34	05 May 2021	Low Tide (ft)	-0.06562
I34	05 May 2021	Low Tide Time	1212
I34	05 May 2021	Comments	none
I35	05 May 2021	Depth (m)	18.8
I35	05 May 2021	Arrive Time	1245
I35	05 May 2021	Depart Time	1247
I35	05 May 2021	Air Temp (C)	16.2
I35	05 May 2021	Weather	Partly Cloudy
I35	05 May 2021	Visibility (mi)	11
I35	05 May 2021	Wind Speed (kts)	12.9

Station	Date	Parameter	Value
I35	05 May 2021	Wind Dir	W
I35	05 May 2021	Water Color	Brownish-Green
I35	05 May 2021	Wave Ht Low (ft)	2
I35	05 May 2021	Wave Period (sec)	8
I35	05 May 2021	Sea State	Light Chop
I35	05 May 2021	High Tide (ft)	4.36373
I35	05 May 2021	High Tide Time	1854
I35	05 May 2021	Low Tide (ft)	-0.06562
I35	05 May 2021	Low Tide Time	1212
I35	05 May 2021	Comments	Large ship on station
I36	05 May 2021	Depth (m)	11.2
I36	05 May 2021	Arrive Time	1228
I36	05 May 2021	Depart Time	1231
I36	05 May 2021	Air Temp (C)	16.2
I36	05 May 2021	Weather	Partly Cloudy
I36	05 May 2021	Visibility (mi)	11
I36	05 May 2021	Wind Speed (kts)	10.2
I36	05 May 2021	Wind Dir	SW
I36	05 May 2021	Water Color	Brownish-Green
I36	05 May 2021	Wave Ht Low (ft)	2
I36	05 May 2021	Wave Period (sec)	8
I36	05 May 2021	Sea State	Light Chop
I36	05 May 2021	High Tide (ft)	4.36373
I36	05 May 2021	High Tide Time	1854
I36	05 May 2021	Low Tide (ft)	-0.06562
I36	05 May 2021	Low Tide Time	1212
I36	05 May 2021	Comments	none
I37	05 May 2021	Depth (m)	12.1
I37	05 May 2021	Arrive Time	1009
I37	05 May 2021	Depart Time	1011
I37	05 May 2021	Air Temp (C)	15.8
I37	05 May 2021	Weather	Fog
I37	05 May 2021	Visibility (mi)	5
I37	05 May 2021	Wind Speed (kts)	11.5
I37	05 May 2021	Wind Dir	W
I37	05 May 2021	Water Color	Greenish-Blue
I37	05 May 2021	Wave Ht Low (ft)	2
I37	05 May 2021	Wave Period (sec)	8
I37	05 May 2021	Sea State	Calm
I37	05 May 2021	High Tide (ft)	4.36373
I37	05 May 2021	High Tide Time	1854
I37	05 May 2021	Low Tide (ft)	-0.06562
I37	05 May 2021	Low Tide Time	1212
I37	05 May 2021	Comments	none
I38	05 May 2021	Depth (m)	10.9
I38	05 May 2021	Arrive Time	1258
I38	05 May 2021	Depart Time	1300
I38	05 May 2021	Air Temp (C)	16.1
I38	05 May 2021	Weather	Partly Cloudy
I38	05 May 2021	Visibility (mi)	12
I38	05 May 2021	Wind Speed (kts)	11.3
I38	05 May 2021	Wind Dir	S
I38	05 May 2021	Water Color	Greenish-Brown
I38	05 May 2021	Wave Ht Low (ft)	2
I38	05 May 2021	Wave Period (sec)	8
I38	05 May 2021	Sea State	Light Chop
I38	05 May 2021	High Tide (ft)	4.36373
I38	05 May 2021	High Tide Time	1854

Station	Date	Parameter	Value
I38	05 May 2021	Low Tide (ft)	-0.06562
I38	05 May 2021	Low Tide Time	1212
I38	05 May 2021	Comments	none
I4	04 May 2021	Depth (m)	19.1
I4	04 May 2021	Arrive Time	1021
I4	04 May 2021	Depart Time	1024
I4	04 May 2021	Air Temp (C)	16.4
I4	04 May 2021	Weather	Overcast
I4	04 May 2021	Visibility (mi)	7
I4	04 May 2021	Wind Speed (kts)	1.6
I4	04 May 2021	Wind Dir	W
I4	04 May 2021	Water Color	Green
I4	04 May 2021	Wave Ht Low (ft)	5
I4	04 May 2021	Wave Period (sec)	15
I4	04 May 2021	Sea State	Wind Ripples
I4	04 May 2021	High Tide (ft)	4.16687
I4	04 May 2021	High Tide Time	354
I4	04 May 2021	Low Tide (ft)	-0.19686
I4	04 May 2021	Low Tide Time	1124
I4	04 May 2021	Comments	none
I5	04 May 2021	Depth (m)	13.9
I5	04 May 2021	Arrive Time	1028
I5	04 May 2021	Depart Time	1032
I5	04 May 2021	Air Temp (C)	16.3
I5	04 May 2021	Weather	Overcast
I5	04 May 2021	Visibility (mi)	7
I5	04 May 2021	Wind Speed (kts)	4.2
I5	04 May 2021	Wind Dir	W
I5	04 May 2021	Water Color	Green
I5	04 May 2021	Wave Ht Low (ft)	5
I5	04 May 2021	Wave Period (sec)	15
I5	04 May 2021	Sea State	Wind Ripples
I5	04 May 2021	High Tide (ft)	4.16687
I5	04 May 2021	High Tide Time	354
I5	04 May 2021	Low Tide (ft)	-0.19686
I5	04 May 2021	Low Tide Time	1124
I5	04 May 2021	Comments	none
I6	04 May 2021	Depth (m)	24.5
I6	04 May 2021	Arrive Time	1044
I6	04 May 2021	Depart Time	1048
I6	04 May 2021	Air Temp (C)	16.3
I6	04 May 2021	Weather	Overcast
I6	04 May 2021	Visibility (mi)	7
I6	04 May 2021	Wind Speed (kts)	0.3
I6	04 May 2021	Wind Dir	NW
I6	04 May 2021	Water Color	Green
I6	04 May 2021	Wave Ht Low (ft)	5
I6	04 May 2021	Wave Period (sec)	15
I6	04 May 2021	Sea State	Wind Ripples
I6	04 May 2021	High Tide (ft)	4.16687
I6	04 May 2021	High Tide Time	354
I6	04 May 2021	Low Tide (ft)	-0.19686
I6	04 May 2021	Low Tide Time	1124
I6	04 May 2021	Comments	none
I7	04 May 2021	Depth (m)	51.6
I7	04 May 2021	Arrive Time	852
I7	04 May 2021	Depart Time	900

Station	Date	Parameter	Value
17	04 May 2021	Air Temp (C)	15.5
17	04 May 2021	Weather	Overcast
17	04 May 2021	Visibility (mi)	2
17	04 May 2021	Wind Speed (kts)	1.6
17	04 May 2021	Wind Dir	E
17	04 May 2021	Water Color	Green
17	04 May 2021	Wave Ht Low (ft)	5
17	04 May 2021	Wave Period (sec)	15
17	04 May 2021	Sea State	Wind Ripples
17	04 May 2021	High Tide (ft)	4.16687
17	04 May 2021	High Tide Time	354
17	04 May 2021	Low Tide (ft)	-0.19686
17	04 May 2021	Low Tide Time	1124
17	04 May 2021	Comments	CTD recorded 51m max depth
18	04 May 2021	Depth (m)	35.4
18	04 May 2021	Arrive Time	1134
18	04 May 2021	Depart Time	1140
18	04 May 2021	Air Temp (C)	16
18	04 May 2021	Weather	Overcast
18	04 May 2021	Visibility (mi)	7
18	04 May 2021	Wind Speed (kts)	4.4
18	04 May 2021	Wind Dir	SW
18	04 May 2021	Water Color	Green
18	04 May 2021	Wave Ht Low (ft)	5
18	04 May 2021	Wave Period (sec)	15
18	04 May 2021	Sea State	Wind Ripples
18	04 May 2021	High Tide (ft)	4.16687
18	04 May 2021	High Tide Time	354
18	04 May 2021	Low Tide (ft)	-0.19686
18	04 May 2021	Low Tide Time	1124
18	04 May 2021	Comments	CTD recorded 36m max depth; Niskin 2 no fire; VanDorn at 18m
19	04 May 2021	Depth (m)	29
19	04 May 2021	Arrive Time	1122
19	04 May 2021	Depart Time	1125
19	04 May 2021	Air Temp (C)	16.1
19	04 May 2021	Weather	Overcast
19	04 May 2021	Visibility (mi)	7
19	04 May 2021	Wind Speed (kts)	3.5
19	04 May 2021	Wind Dir	SW
19	04 May 2021	Water Color	Green
19	04 May 2021	Wave Ht Low (ft)	5
19	04 May 2021	Wave Period (sec)	15
19	04 May 2021	Sea State	Wind Ripples
19	04 May 2021	High Tide (ft)	4.16687
19	04 May 2021	High Tide Time	354
19	04 May 2021	Low Tide (ft)	-0.19686
19	04 May 2021	Low Tide Time	1124
19	04 May 2021	Comments	none

Table 4.7

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

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I1	04 May 2021	1	17.45	83.91	8.1	33.66	8.1	24.4	0.83
I1	04 May 2021	2	17.44	83.99	8.1	33.66	8.1	24.4	0.84
I1	04 May 2021	3	17.43	84.03	8.1	33.66	8.1	24.4	0.87
I1	04 May 2021	4	17.41	84.11	8.1	33.66	8.1	24.4	0.92
I1	04 May 2021	5	17.38	82.94	8.1	33.66	8.1	24.4	0.94
I1	04 May 2021	6	17.17	84.03	8.2	33.67	8.1	24.5	0.97
I1	04 May 2021	7	16.81	83.85	8.3	33.64	8.1	24.5	1.00
I1	04 May 2021	8	16.27	83.58	8.3	33.67	8.1	24.7	1.07
I1	04 May 2021	9	15.27	83.19	8.5	33.65	8.1	24.9	1.22
I1	04 May 2021	10	15.08	82.08	8.5	33.64	8.1	24.9	1.37
I1	04 May 2021	11	14.18	81.92	8.4	33.60	8.1	25.1	1.65
I1	04 May 2021	12	13.87	81.87	8.5	33.56	8.1	25.1	1.97
I1	04 May 2021	13	13.92	80.73	8.3	33.56	8.1	25.1	2.35
I1	04 May 2021	14	13.34	80.13	7.9	33.57	8.1	25.2	2.95
I1	04 May 2021	15	12.66	81.93	7.1	33.60	8.0	25.4	2.67
I1	04 May 2021	16	12.39	84.03	6.8	33.55	8.0	25.4	2.32
I1	04 May 2021	17	12.19	84.40	6.6	33.56	8.0	25.4	2.28
I1	04 May 2021	18	12.10	84.64	6.4	33.56	8.0	25.5	2.12
I1	04 May 2021	19	11.91	85.25	6.1	33.60	7.9	25.5	1.93
I1	04 May 2021	20	11.76	85.88	6.0	33.60	7.9	25.6	1.66
I1	04 May 2021	21	11.72	86.33	6.0	33.61	7.9	25.6	1.47
I1	04 May 2021	22	11.68	86.54	6.0	33.62	7.9	25.6	1.45
I1	04 May 2021	23	11.66	86.56	6.0	33.63	7.9	25.6	1.40
I1	04 May 2021	24	11.57	86.68	5.9	33.64	7.9	25.6	1.37
I1	04 May 2021	25	11.52	86.98	5.8	33.64	7.9	25.6	1.22
I1	04 May 2021	26	11.51	87.05	5.8	33.64	7.9	25.6	1.19
I1	04 May 2021	27	11.51	87.11	5.8	33.64	7.9	25.6	1.16
I1	04 May 2021	28	11.50	87.14	5.8	33.65	7.9	25.6	1.20
I1	04 May 2021	29	11.49	87.15	5.8	33.65	7.9	25.6	1.20
I1	04 May 2021	30	11.45	87.15	5.7	33.65	7.9	25.6	1.14
I1	04 May 2021	31	11.38	87.20	5.6	33.65	7.9	25.7	1.10
I1	04 May 2021	32	11.28	87.21	5.5	33.65	7.9	25.7	1.17
I1	04 May 2021	33	11.27	87.28	5.5	33.65	7.9	25.7	1.15
I1	04 May 2021	34	11.27	87.18	5.5	33.65	7.9	25.7	1.20
I1	04 May 2021	35	11.21	87.18	5.3	33.66	7.8	25.7	1.19
I1	04 May 2021	36	11.17	87.14	5.2	33.67	7.8	25.7	1.22
I1	04 May 2021	37	11.16	87.01	5.1	33.67	7.8	25.7	1.33
I1	04 May 2021	38	11.12	86.91	5.0	33.69	7.8	25.7	1.32
I1	04 May 2021	39	11.11	86.92	5.0	33.69	7.8	25.7	1.36
I1	04 May 2021	40	11.04	86.92	4.9	33.70	7.8	25.8	1.35
I1	04 May 2021	41	11.03	86.90	4.9	33.70	7.8	25.8	1.38
I1	04 May 2021	42	11.03	86.96	4.9	33.70	7.8	25.8	1.33
I1	04 May 2021	43	10.99	86.99	4.8	33.71	7.8	25.8	1.27
I1	04 May 2021	44	10.93	87.00	4.7	33.73	7.8	25.8	1.24
I1	04 May 2021	45	10.73	87.21	4.6	33.76	7.8	25.9	1.00
I1	04 May 2021	46	10.73	87.37	4.6	33.76	7.8	25.9	0.89
I1	04 May 2021	47	10.68	87.40	4.5	33.77	7.8	25.9	0.87
I1	04 May 2021	48	10.68	87.42	4.5	33.77	7.8	25.9	0.80
I1	04 May 2021	49	10.67	87.41	4.5	33.77	7.8	25.9	0.76
I1	04 May 2021	50	10.65	87.40	4.5	33.77	7.8	25.9	0.75
I1	04 May 2021	51	10.62	87.40	4.5	33.78	7.8	25.9	0.70
I1	04 May 2021	52	10.58	87.24	4.5	33.79	7.8	25.9	0.68
I1	04 May 2021	53	10.51	87.46	4.5	33.80	7.8	25.9	0.60
I1	04 May 2021	54	10.53	87.70	4.5	33.80	7.8	25.9	0.68
I1	04 May 2021	55	10.47	87.65	4.4	33.81	7.8	25.9	0.58
I1	04 May 2021	56	10.45	87.57	4.4	33.81	7.8	25.9	0.56

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I1	04 May 2021	57	10.44	87.31	4.4	33.81	7.8	25.9	0.52
I1	04 May 2021	58	10.43	87.11	4.4	33.82	7.8	26.0	0.52
I1	04 May 2021	59	10.38	86.95	4.3	33.83	7.8	26.0	0.50
I1	04 May 2021	60	10.38	86.87	4.3	33.83	7.8	26.0	0.51
I10	04 May 2021	1	16.64	73.62	9.5	33.66	8.2	24.6	1.52
I10	04 May 2021	2	16.35	74.00	10.0	33.68	8.2	24.7	1.78
I10	04 May 2021	3	15.90	72.08	10.3	33.71	8.3	24.8	2.53
I10	04 May 2021	4	14.71	67.13	9.8	33.73	8.3	25.1	6.09
I10	04 May 2021	5	14.05	62.53	8.8	33.68	8.2	25.2	9.02
I10	04 May 2021	6	14.03	67.13	8.6	33.67	8.2	25.2	8.79
I10	04 May 2021	7	13.94	69.53	8.4	33.66	8.1	25.2	7.15
I10	04 May 2021	8	13.93	70.62	8.5	33.66	8.1	25.2	5.98
I10	04 May 2021	9	13.93	71.16	8.4	33.66	8.1	25.2	5.51
I10	04 May 2021	10	13.92	71.69	8.4	33.66	8.1	25.2	4.96
I10	04 May 2021	11	13.91	72.04	8.3	33.67	8.1	25.2	4.57
I10	04 May 2021	12	13.71	72.68	8.1	33.69	8.1	25.2	4.11
I10	04 May 2021	13	13.51	74.59	7.8	33.69	8.1	25.3	3.64
I10	04 May 2021	14	13.07	75.68	7.5	33.71	8.1	25.4	3.51
I10	04 May 2021	15	12.93	75.78	7.3	33.69	8.0	25.4	3.39
I10	04 May 2021	16	12.80	75.66	7.1	33.70	8.0	25.4	3.03
I10	04 May 2021	17	12.49	76.03	6.8	33.71	8.0	25.5	2.57
I10	04 May 2021	18	12.31	76.97	6.4	33.71	8.0	25.5	2.25
I10	04 May 2021	19	12.01	76.92	6.1	33.72	7.9	25.6	2.02
I11	04 May 2021	1	17.09	73.96	9.3	33.67	8.2	24.5	1.51
I11	04 May 2021	2	16.77	72.82	9.6	33.68	8.2	24.6	1.79
I11	04 May 2021	3	16.49	71.02	10.3	33.69	8.3	24.6	2.62
I11	04 May 2021	4	16.32	64.22	10.9	33.67	8.3	24.7	5.26
I11	04 May 2021	5	15.73	46.47	11.3	33.66	8.3	24.8	22.97
I11	04 May 2021	6	15.54	42.73	10.8	33.66	8.3	24.8	26.72
I11	04 May 2021	7	15.41	46.90	10.4	33.63	8.3	24.8	25.95
I11	04 May 2021	8	15.27	49.66	10.0	33.63	8.3	24.9	22.56
I11	04 May 2021	9	15.06	53.02	9.5	33.62	8.2	24.9	17.87
I11	04 May 2021	10	14.86	58.35	9.1	33.62	8.2	24.9	10.75
I11	04 May 2021	11	14.57	64.34	8.6	33.64	8.2	25.0	4.66
I11	04 May 2021	12	14.11	64.43	7.9	33.67	8.1	25.1	2.73
I11	04 May 2021	13	14.09	59.33	7.8	33.66	8.1	25.1	2.31
I12	06 May 2021	1	17.13	74.90	9.7	33.69	8.3	24.5	4.07
I12	06 May 2021	2	17.06	74.99	9.7	33.70	8.3	24.5	4.31
I12	06 May 2021	3	16.64	75.02	9.5	33.72	8.2	24.6	4.77
I12	06 May 2021	4	16.22	75.18	9.3	33.69	8.2	24.7	5.03
I12	06 May 2021	5	15.75	75.15	9.0	33.70	8.2	24.8	4.80
I12	06 May 2021	6	15.01	75.36	8.6	33.73	8.2	25.0	4.84
I12	06 May 2021	7	14.29	74.68	8.4	33.70	8.2	25.1	5.76
I12	06 May 2021	8	13.93	71.12	8.5	33.63	8.1	25.1	7.40
I12	06 May 2021	9	13.93	69.63	8.6	33.61	8.1	25.1	8.19
I12	06 May 2021	10	13.91	68.92	8.7	33.61	8.1	25.1	8.44
I12	06 May 2021	11	13.78	68.53	8.8	33.61	8.1	25.2	8.80
I12	06 May 2021	12	13.69	68.05	8.8	33.60	8.1	25.2	8.93
I12	06 May 2021	13	13.38	67.09	8.6	33.61	8.1	25.2	10.20
I12	06 May 2021	14	12.89	65.50	8.1	33.61	8.1	25.3	11.35
I12	06 May 2021	15	12.57	66.61	7.5	33.58	8.1	25.4	11.01
I12	06 May 2021	16	12.43	71.40	7.1	33.56	8.0	25.4	8.78
I12	06 May 2021	17	12.31	77.39	6.9	33.56	8.0	25.4	6.17
I12	06 May 2021	18	12.17	80.77	6.7	33.61	8.0	25.5	5.28
I12	06 May 2021	19	12.07	81.03	6.5	33.65	8.0	25.5	4.59
I12	06 May 2021	20	12.01	81.19	6.2	33.68	8.0	25.6	3.83
I12	06 May 2021	21	12.04	81.08	6.0	33.70	7.9	25.6	3.22
I12	06 May 2021	22	12.02	81.47	5.9	33.71	7.9	25.6	2.90

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I12	06 May 2021	23	12.00	81.75	5.9	33.71	7.9	25.6	2.62
I12	06 May 2021	24	11.96	81.84	5.8	33.72	7.9	25.6	2.72
I12	06 May 2021	25	11.93	81.99	5.8	33.72	7.9	25.6	2.36
I12	06 May 2021	26	11.90	82.10	5.8	33.72	7.9	25.6	2.50
I12	06 May 2021	27	11.88	81.84	5.7	33.72	7.9	25.6	2.25
I12	06 May 2021	28	11.87	81.52	5.7	33.72	7.9	25.6	2.16
I13	06 May 2021	1	17.29	78.04	9.3	33.67	8.2	24.4	2.38
I13	06 May 2021	2	17.31	78.17	9.3	33.68	8.2	24.4	2.42
I13	06 May 2021	3	17.11	78.02	9.3	33.68	8.2	24.5	2.91
I13	06 May 2021	4	17.02	77.26	9.3	33.69	8.2	24.5	3.41
I13	06 May 2021	5	16.60	77.04	9.2	33.71	8.2	24.6	3.91
I13	06 May 2021	6	15.95	76.43	9.1	33.72	8.2	24.8	4.00
I13	06 May 2021	7	15.18	76.40	8.9	33.72	8.2	24.9	4.01
I13	06 May 2021	8	14.64	76.45	8.3	33.70	8.2	25.0	4.08
I13	06 May 2021	9	13.92	76.84	7.6	33.70	8.1	25.2	4.39
I13	06 May 2021	10	13.54	76.67	7.2	33.66	8.1	25.2	5.06
I13	06 May 2021	11	13.31	76.27	7.0	33.66	8.1	25.3	5.97
I13	06 May 2021	12	13.12	75.41	6.8	33.64	8.0	25.3	6.86
I13	06 May 2021	13	12.91	75.49	6.7	33.64	8.0	25.4	6.98
I13	06 May 2021	14	12.75	76.18	6.5	33.62	8.0	25.4	7.01
I13	06 May 2021	15	12.37	77.05	6.2	33.63	8.0	25.5	6.24
I13	06 May 2021	16	12.12	79.23	6.1	33.59	8.0	25.5	5.02
I13	06 May 2021	17	12.07	81.20	6.1	33.59	8.0	25.5	3.85
I13	06 May 2021	18	11.94	82.99	6.0	33.60	8.0	25.5	2.93
I13	06 May 2021	19	11.86	84.19	5.9	33.60	7.9	25.5	2.45
I13	06 May 2021	20	11.79	84.59	5.9	33.61	7.9	25.5	2.17
I13	06 May 2021	21	11.75	84.80	5.8	33.61	7.9	25.6	2.49
I13	06 May 2021	22	11.72	84.42	5.8	33.62	7.9	25.6	2.24
I13	06 May 2021	23	11.65	84.98	5.7	33.62	7.9	25.6	2.03
I13	06 May 2021	24	11.61	85.27	5.7	33.63	7.9	25.6	2.10
I13	06 May 2021	25	11.52	85.42	5.6	33.64	7.9	25.6	1.97
I13	06 May 2021	26	11.45	85.59	5.5	33.64	7.9	25.6	1.79
I13	06 May 2021	27	11.44	85.59	5.4	33.64	7.9	25.6	1.79
I13	06 May 2021	28	11.39	85.74	5.3	33.66	7.9	25.7	1.60
I13	06 May 2021	29	11.35	85.32	5.2	33.67	7.9	25.7	1.76
I13	06 May 2021	30	11.36	84.65	5.1	33.67	7.9	25.7	1.63
I13	06 May 2021	31	11.36	84.26	5.1	33.67	7.9	25.7	1.78
I13	06 May 2021	32	11.36	84.24	5.1	33.67	7.9	25.7	1.64
I13	06 May 2021	33	11.36	84.05	5.1	33.67	7.9	25.7	1.76
I13	06 May 2021	34	11.35	83.88	5.1	33.67	7.9	25.7	1.77
I13	06 May 2021	35	11.35	83.70	5.1	33.67	7.9	25.7	1.77
I13	06 May 2021	36	11.35	83.81	5.1	33.67	7.9	25.7	1.97
I13	06 May 2021	37	11.35	83.86	5.1	33.67	7.9	25.7	1.69
I13	06 May 2021	38	11.35	83.71	5.0	33.67	7.9	25.7	1.66
I14	06 May 2021	1	17.18	73.22	9.8	33.69	8.3	24.5	5.94
I14	06 May 2021	2	17.08	73.39	9.7	33.70	8.3	24.5	5.76
I14	06 May 2021	3	16.69	74.05	9.5	33.69	8.2	24.6	5.32
I14	06 May 2021	4	16.53	74.88	9.4	33.68	8.2	24.6	5.00
I14	06 May 2021	5	16.37	75.25	9.4	33.68	8.2	24.7	4.68
I14	06 May 2021	6	16.03	75.57	9.5	33.68	8.2	24.7	4.65
I14	06 May 2021	7	15.91	75.49	9.6	33.67	8.2	24.7	4.75
I14	06 May 2021	8	15.84	75.48	9.5	33.66	8.2	24.8	4.93
I14	06 May 2021	9	15.70	75.17	9.5	33.68	8.2	24.8	4.99
I14	06 May 2021	10	15.45	75.14	9.4	33.66	8.2	24.8	5.21
I14	06 May 2021	11	14.97	74.69	8.9	33.72	8.2	25.0	5.38
I14	06 May 2021	12	14.49	73.90	8.6	33.64	8.2	25.0	6.10
I14	06 May 2021	13	14.13	72.53	8.5	33.66	8.2	25.1	6.68
I14	06 May 2021	14	13.86	71.89	8.4	33.63	8.1	25.2	7.62
I14	06 May 2021	15	13.54	70.15	8.5	33.61	8.1	25.2	9.47

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I14	06 May 2021	16	12.80	65.93	7.9	33.62	8.1	25.4	11.40
I14	06 May 2021	17	12.45	68.03	7.2	33.57	8.0	25.4	9.70
I14	06 May 2021	18	12.33	75.47	6.9	33.58	8.0	25.4	7.10
I14	06 May 2021	19	12.18	79.96	6.6	33.60	8.0	25.5	5.11
I14	06 May 2021	20	12.09	80.46	6.3	33.68	8.0	25.5	4.35
I14	06 May 2021	21	12.09	80.41	6.0	33.70	8.0	25.6	3.64
I14	06 May 2021	22	12.08	80.81	6.0	33.71	7.9	25.6	3.29
I14	06 May 2021	23	12.08	81.08	6.0	33.71	7.9	25.6	2.99
I14	06 May 2021	24	12.07	81.14	5.9	33.71	7.9	25.6	2.81
I14	06 May 2021	25	12.04	81.16	5.9	33.72	7.9	25.6	2.61
I14	06 May 2021	26	12.03	81.30	5.9	33.72	7.9	25.6	2.60
I14	06 May 2021	27	11.99	81.23	5.8	33.72	7.9	25.6	2.42
I14	06 May 2021	28	11.98	81.16	5.8	33.72	7.9	25.6	2.48
I15	06 May 2021	1	17.21	74.32	9.9	33.69	8.3	24.5	4.05
I15	06 May 2021	2	17.19	73.68	9.9	33.69	8.3	24.5	5.64
I15	06 May 2021	3	17.15	72.68	9.9	33.69	8.3	24.5	7.40
I15	06 May 2021	4	17.11	72.15	9.9	33.69	8.3	24.5	7.41
I15	06 May 2021	5	16.92	72.60	9.7	33.70	8.3	24.5	6.48
I15	06 May 2021	6	16.53	73.78	9.4	33.71	8.2	24.6	5.40
I15	06 May 2021	7	15.66	74.89	9.0	33.72	8.2	24.8	4.83
I15	06 May 2021	8	15.17	75.71	8.7	33.68	8.2	24.9	4.73
I15	06 May 2021	9	14.74	75.92	8.3	33.69	8.2	25.0	4.78
I15	06 May 2021	10	14.03	75.87	7.9	33.68	8.1	25.2	5.64
I15	06 May 2021	11	13.69	74.37	8.0	33.64	8.1	25.2	7.59
I15	06 May 2021	12	13.32	70.37	8.0	33.62	8.1	25.3	9.25
I15	06 May 2021	13	12.95	67.71	7.5	33.56	8.1	25.3	9.33
I15	06 May 2021	14	12.28	69.16	6.6	33.48	8.0	25.4	6.38
I15	06 May 2021	15	12.10	76.24	6.3	33.44	7.9	25.4	4.73
I15	06 May 2021	16	12.24	79.67	6.6	33.52	8.0	25.4	4.31
I15	06 May 2021	17	12.25	80.19	6.8	33.55	8.0	25.4	4.34
I15	06 May 2021	18	12.12	80.99	6.6	33.57	8.0	25.5	4.05
I15	06 May 2021	19	11.96	82.09	6.3	33.59	8.0	25.5	4.02
I15	06 May 2021	20	11.79	81.96	6.0	33.61	8.0	25.6	4.02
I15	06 May 2021	21	11.69	82.53	5.8	33.64	7.9	25.6	3.55
I15	06 May 2021	22	11.71	83.18	5.7	33.67	7.9	25.6	2.85
I15	06 May 2021	23	11.75	82.73	5.6	33.69	7.9	25.6	2.40
I15	06 May 2021	24	11.75	82.74	5.6	33.70	7.9	25.6	2.15
I15	06 May 2021	25	11.72	82.59	5.6	33.70	7.9	25.6	2.07
I15	06 May 2021	26	11.68	82.52	5.6	33.69	7.9	25.6	2.08
I15	06 May 2021	27	11.68	82.60	5.6	33.69	7.9	25.6	2.28
I15	06 May 2021	28	11.68	82.59	5.6	33.70	7.9	25.6	2.13
I15	06 May 2021	29	11.68	82.57	5.6	33.70	7.9	25.6	2.03
I15	06 May 2021	30	11.68	82.53	5.5	33.70	7.9	25.6	2.07
I15	06 May 2021	31	11.67	82.28	5.5	33.70	7.9	25.6	2.31
I16	06 May 2021	1	17.25	76.12	9.8	33.69	8.3	24.4	3.41
I16	06 May 2021	2	17.24	76.15	9.8	33.69	8.3	24.5	4.03
I16	06 May 2021	3	17.20	75.18	9.8	33.69	8.3	24.5	5.27
I16	06 May 2021	4	17.06	74.30	9.6	33.69	8.2	24.5	5.34
I16	06 May 2021	5	16.66	75.02	9.3	33.70	8.2	24.6	4.86
I16	06 May 2021	6	15.93	75.68	9.4	33.71	8.2	24.8	4.74
I16	06 May 2021	7	15.38	75.26	9.3	33.69	8.2	24.9	4.97
I16	06 May 2021	8	14.73	74.39	8.9	33.69	8.2	25.0	5.87
I16	06 May 2021	9	14.16	72.88	8.7	33.63	8.2	25.1	6.79
I16	06 May 2021	10	13.97	71.25	8.9	33.62	8.2	25.1	7.59
I16	06 May 2021	11	13.55	69.75	8.8	33.62	8.2	25.2	9.43
I16	06 May 2021	12	12.86	66.42	8.1	33.60	8.1	25.3	11.84
I16	06 May 2021	13	12.55	65.38	7.4	33.57	8.1	25.4	11.43
I16	06 May 2021	14	12.42	71.49	7.1	33.56	8.0	25.4	9.11
I16	06 May 2021	15	12.37	75.76	7.0	33.56	8.0	25.4	6.62

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I16	06 May 2021	16	12.27	78.78	6.9	33.56	8.0	25.4	5.42
I16	06 May 2021	17	12.20	80.13	6.8	33.58	8.0	25.4	4.85
I16	06 May 2021	18	12.17	80.70	6.7	33.60	8.0	25.5	4.47
I16	06 May 2021	19	12.12	80.72	6.5	33.64	8.0	25.5	4.33
I16	06 May 2021	20	12.07	80.10	6.3	33.68	8.0	25.6	4.07
I16	06 May 2021	21	12.06	80.55	6.0	33.71	7.9	25.6	3.52
I16	06 May 2021	22	12.05	80.85	5.9	33.71	7.9	25.6	3.34
I16	06 May 2021	23	12.05	80.97	5.9	33.72	7.9	25.6	3.02
I16	06 May 2021	24	12.03	81.33	5.9	33.72	7.9	25.6	2.87
I16	06 May 2021	25	12.00	81.45	5.9	33.72	7.9	25.6	2.65
I16	06 May 2021	26	11.99	81.46	5.8	33.72	7.9	25.6	2.87
I16	06 May 2021	27	11.97	81.50	5.8	33.72	7.9	25.6	2.48
I16	06 May 2021	28	11.97	81.59	5.8	33.72	7.9	25.6	2.41
I17	06 May 2021	1	17.15	74.83	9.6	33.67	8.2	24.5	4.54
I17	06 May 2021	2	17.09	74.66	9.3	33.70	8.2	24.5	4.70
I17	06 May 2021	3	15.94	75.27	9.2	33.72	8.2	24.8	4.71
I17	06 May 2021	4	15.39	75.06	9.3	33.68	8.2	24.9	5.20
I17	06 May 2021	5	15.20	74.30	9.3	33.67	8.2	24.9	5.41
I17	06 May 2021	6	14.80	73.70	9.2	33.66	8.2	25.0	5.79
I17	06 May 2021	7	14.77	73.00	9.2	33.64	8.2	25.0	5.98
I17	06 May 2021	8	14.73	72.93	9.2	33.64	8.2	25.0	6.14
I17	06 May 2021	9	14.69	72.81	9.1	33.64	8.2	25.0	6.33
I17	06 May 2021	10	14.35	72.92	8.8	33.65	8.2	25.1	6.76
I17	06 May 2021	11	13.35	72.49	8.3	33.68	8.2	25.3	8.71
I17	06 May 2021	12	12.63	68.28	7.6	33.59	8.1	25.4	10.98
I17	06 May 2021	13	12.52	67.86	7.2	33.57	8.0	25.4	10.39
I17	06 May 2021	14	12.33	72.31	6.7	33.65	8.0	25.5	8.93
I17	06 May 2021	15	12.18	75.92	6.2	33.69	8.0	25.5	6.28
I17	06 May 2021	16	12.27	74.77	6.2	33.67	7.9	25.5	5.50
I17	06 May 2021	17	12.14	79.72	6.1	33.70	7.9	25.6	4.38
I17	06 May 2021	18	12.13	80.41	6.0	33.71	7.9	25.6	3.73
I17	06 May 2021	19	12.13	80.49	6.0	33.71	7.9	25.6	3.55
I17	06 May 2021	20	12.11	80.34	6.0	33.71	7.9	25.6	3.24
I17	06 May 2021	21	12.09	80.53	5.9	33.71	7.9	25.6	3.11
I17	06 May 2021	22	12.07	80.77	5.9	33.72	7.9	25.6	2.69
I17	06 May 2021	23	12.07	80.75	5.9	33.72	7.9	25.6	2.45
I17	06 May 2021	24	12.07	80.96	5.9	33.72	7.9	25.6	2.62
I17	06 May 2021	25	12.07	80.84	5.8	33.72	7.9	25.6	2.54
I18	06 May 2021	1	17.40	69.67	9.8	33.68	8.3	24.4	6.79
I18	06 May 2021	2	17.40	70.10	9.8	33.68	8.3	24.4	7.60
I18	06 May 2021	3	17.39	67.38	9.8	33.68	8.3	24.4	10.70
I18	06 May 2021	4	17.38	66.39	9.7	33.67	8.3	24.4	12.24
I18	06 May 2021	5	17.36	67.30	9.7	33.68	8.3	24.4	12.28
I18	06 May 2021	6	17.26	67.02	9.8	33.68	8.3	24.4	11.99
I18	06 May 2021	7	17.08	68.62	9.8	33.68	8.3	24.5	9.54
I18	06 May 2021	8	16.97	73.36	9.3	33.68	8.2	24.5	6.21
I18	06 May 2021	9	16.74	77.55	9.0	33.68	8.2	24.6	4.39
I18	06 May 2021	10	16.46	79.18	8.8	33.66	8.2	24.6	3.45
I18	06 May 2021	11	16.19	79.43	8.9	33.67	8.2	24.7	3.46
I18	06 May 2021	12	15.54	78.05	9.8	33.71	8.2	24.9	4.46
I18	06 May 2021	13	14.65	74.97	9.3	33.74	8.3	25.1	4.92
I18	06 May 2021	14	13.60	75.05	7.6	33.73	8.1	25.3	5.29
I18	06 May 2021	15	12.92	76.47	6.6	33.71	8.0	25.4	5.55
I18	06 May 2021	16	12.68	76.70	6.3	33.69	8.0	25.4	5.39
I18	06 May 2021	17	12.63	76.86	6.3	33.69	8.0	25.4	5.59
I18	06 May 2021	18	12.61	76.82	6.3	33.69	8.0	25.5	5.34
I18	06 May 2021	19	12.60	76.84	6.3	33.69	8.0	25.5	4.77
I2	04 May 2021	1	17.02	79.76	8.7	33.67	8.2	24.5	1.00

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I2	04 May 2021	2	16.95	79.45	8.8	33.68	8.2	24.5	1.07
I2	04 May 2021	3	16.90	78.70	8.9	33.68	8.2	24.5	1.26
I2	04 May 2021	4	16.83	77.70	8.9	33.68	8.2	24.5	1.40
I2	04 May 2021	5	16.70	77.40	8.9	33.68	8.2	24.6	1.50
I2	04 May 2021	6	16.61	78.42	8.7	33.69	8.2	24.6	1.57
I2	04 May 2021	7	16.04	78.49	8.8	33.70	8.2	24.7	1.70
I2	04 May 2021	8	15.93	77.52	8.9	33.68	8.2	24.7	1.92
I2	04 May 2021	9	15.24	76.43	8.9	33.73	8.2	24.9	2.46
I2	04 May 2021	10	14.83	74.01	8.9	33.67	8.2	25.0	3.17
I2	04 May 2021	11	14.18	69.97	8.4	33.68	8.2	25.1	5.06
I2	04 May 2021	12	13.48	64.71	8.0	33.65	8.1	25.3	9.91
I2	04 May 2021	13	13.25	61.55	7.7	33.61	8.1	25.3	13.49
I2	04 May 2021	14	12.65	74.45	7.0	33.63	8.0	25.4	9.75
I2	04 May 2021	15	12.20	81.15	6.4	33.59	8.0	25.5	5.37
I2	04 May 2021	16	12.17	82.19	6.4	33.58	8.0	25.5	3.91
I2	04 May 2021	17	12.17	82.47	6.4	33.59	8.0	25.5	3.52
I2	04 May 2021	18	12.08	82.87	6.2	33.60	8.0	25.5	3.03
I2	04 May 2021	19	11.68	83.80	6.0	33.61	7.9	25.6	2.68
I2	04 May 2021	20	11.58	84.26	5.9	33.59	7.9	25.6	2.58
I2	04 May 2021	21	11.59	84.66	5.9	33.62	7.9	25.6	2.35
I2	04 May 2021	22	11.55	84.51	5.7	33.63	7.9	25.6	2.21
I2	04 May 2021	23	11.41	84.85	5.6	33.65	7.9	25.6	2.11
I2	04 May 2021	24	11.41	85.47	5.5	33.65	7.9	25.6	2.05
I2	04 May 2021	25	11.26	85.70	5.3	33.67	7.9	25.7	1.68
I2	04 May 2021	26	11.24	85.97	5.2	33.67	7.9	25.7	1.76
I2	04 May 2021	27	11.19	85.57	5.1	33.68	7.9	25.7	1.60
I2	04 May 2021	28	11.08	83.96	4.9	33.70	7.8	25.8	1.66
I2	04 May 2021	29	11.08	82.94	4.9	33.70	7.8	25.7	1.85
I2	04 May 2021	30	11.06	82.36	4.9	33.70	7.8	25.8	1.94
I2	04 May 2021	31	11.06	82.20	4.9	33.70	7.8	25.8	1.89
I2	04 May 2021	32	11.07	81.96	4.9	33.70	7.8	25.8	1.95
I20	06 May 2021	1	17.47	76.90	9.8	33.69	8.2	24.4	2.56
I20	06 May 2021	2	17.46	76.82	9.8	33.69	8.2	24.4	2.67
I20	06 May 2021	3	17.34	76.72	9.8	33.70	8.2	24.4	3.95
I20	06 May 2021	4	17.16	75.78	9.9	33.67	8.2	24.5	5.08
I20	06 May 2021	5	17.10	75.50	9.9	33.67	8.2	24.5	5.34
I20	06 May 2021	6	16.97	75.69	9.8	33.68	8.2	24.5	5.46
I20	06 May 2021	7	16.59	75.52	9.6	33.69	8.2	24.6	4.70
I20	06 May 2021	8	16.01	77.18	9.6	33.68	8.2	24.7	3.79
I20	06 May 2021	9	15.54	77.22	9.4	33.68	8.2	24.8	3.71
I20	06 May 2021	10	15.00	77.41	8.9	33.69	8.2	25.0	3.71
I20	06 May 2021	11	14.38	77.29	8.6	33.65	8.1	25.1	3.97
I20	06 May 2021	12	13.97	77.65	8.5	33.62	8.1	25.1	4.21
I20	06 May 2021	13	13.53	77.43	8.2	33.62	8.1	25.2	5.05
I20	06 May 2021	14	13.36	76.96	7.9	33.61	8.1	25.2	5.65
I20	06 May 2021	15	13.15	76.58	7.4	33.64	8.1	25.3	6.19
I20	06 May 2021	16	12.79	76.76	6.8	33.65	8.0	25.4	6.07
I20	06 May 2021	17	12.72	78.62	6.7	33.63	8.0	25.4	5.24
I20	06 May 2021	18	12.70	79.36	6.7	33.64	8.0	25.4	4.83
I20	06 May 2021	19	12.68	79.88	6.6	33.64	8.0	25.4	4.16
I20	06 May 2021	20	12.64	80.76	6.6	33.64	8.0	25.4	3.72
I20	06 May 2021	21	12.41	81.20	6.2	33.67	8.0	25.5	3.07
I20	06 May 2021	22	12.04	82.37	5.9	33.64	7.9	25.5	2.68
I20	06 May 2021	23	11.82	83.44	5.7	33.64	7.9	25.6	2.48
I20	06 May 2021	24	11.59	84.14	5.5	33.64	7.9	25.6	2.21
I20	06 May 2021	25	11.38	84.98	5.3	33.65	7.9	25.7	1.78
I20	06 May 2021	26	11.27	85.79	5.2	33.65	7.8	25.7	1.55
I20	06 May 2021	27	11.19	86.47	5.2	33.66	7.8	25.7	1.30
I20	06 May 2021	28	11.16	86.95	5.2	33.67	7.8	25.7	1.16
I20	06 May 2021	29	11.11	87.31	5.1	33.68	7.8	25.7	1.01

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I20	06 May 2021	30	11.08	87.23	5.1	33.69	7.8	25.7	1.00
I20	06 May 2021	31	11.05	87.33	5.0	33.69	7.8	25.8	0.98
I20	06 May 2021	32	11.04	87.44	5.0	33.70	7.8	25.8	0.96
I20	06 May 2021	33	11.02	87.35	5.0	33.70	7.8	25.8	1.01
I20	06 May 2021	34	10.97	87.37	4.9	33.71	7.8	25.8	0.97
I20	06 May 2021	35	10.92	87.31	4.8	33.72	7.8	25.8	1.01
I20	06 May 2021	36	10.89	87.03	4.8	33.73	7.8	25.8	0.97
I20	06 May 2021	37	10.88	87.39	4.7	33.73	7.8	25.8	0.98
I20	06 May 2021	38	10.86	87.46	4.7	33.73	7.8	25.8	0.97
I20	06 May 2021	39	10.83	87.37	4.7	33.74	7.8	25.8	0.92
I20	06 May 2021	40	10.78	87.39	4.6	33.75	7.8	25.8	0.93
I20	06 May 2021	41	10.77	87.30	4.6	33.75	7.8	25.8	0.89
I20	06 May 2021	42	10.77	87.23	4.6	33.75	7.8	25.8	0.91
I20	06 May 2021	43	10.76	87.06	4.6	33.75	7.8	25.8	0.88
I20	06 May 2021	44	10.76	87.02	4.6	33.75	7.8	25.8	0.85
I20	06 May 2021	45	10.71	86.95	4.5	33.76	7.8	25.9	0.81
I20	06 May 2021	46	10.68	86.91	4.5	33.77	7.8	25.9	0.79
I20	06 May 2021	47	10.67	86.32	4.5	33.77	7.8	25.9	0.78
I20	06 May 2021	48	10.67	86.44	4.5	33.77	7.8	25.9	0.78
I20	06 May 2021	49	10.67	86.46	4.5	33.77	7.8	25.9	0.81
I20	06 May 2021	50	10.66	86.38	4.4	33.77	7.8	25.9	0.79
I20	06 May 2021	51	10.66	86.32	4.4	33.77	7.8	25.9	0.83
I20	06 May 2021	52	10.66	86.37	4.5	33.77	7.8	25.9	0.77
I20	06 May 2021	53	10.66	86.21	4.5	33.77	7.8	25.9	0.83
I20	06 May 2021	54	10.66	86.10	4.4	33.77	7.8	25.9	0.85
I20	06 May 2021	55	10.65	86.33	4.4	33.77	7.8	25.9	0.84
I21	06 May 2021	1	17.47	77.68	9.6	33.69	8.2	24.4	2.49
I21	06 May 2021	2	17.19	77.69	9.5	33.69	8.2	24.5	3.13
I21	06 May 2021	3	16.78	77.47	9.5	33.67	8.2	24.5	3.58
I21	06 May 2021	4	16.59	76.64	9.6	33.67	8.2	24.6	4.22
I21	06 May 2021	5	16.46	76.05	9.8	33.68	8.2	24.6	4.66
I21	06 May 2021	6	16.36	75.76	9.8	33.67	8.2	24.6	4.68
I21	06 May 2021	7	16.26	75.51	9.9	33.69	8.2	24.7	4.61
I21	06 May 2021	8	15.71	75.49	9.8	33.72	8.2	24.8	4.30
I21	06 May 2021	9	15.10	75.70	9.5	33.70	8.2	24.9	4.44
I21	06 May 2021	10	14.48	75.56	8.7	33.72	8.2	25.1	5.04
I21	06 May 2021	11	13.81	74.78	7.8	33.67	8.1	25.2	5.85
I21	06 May 2021	12	13.48	73.87	7.3	33.66	8.1	25.3	6.73
I21	06 May 2021	13	12.90	72.24	6.6	33.66	8.0	25.4	8.18
I21	06 May 2021	14	12.50	72.40	6.3	33.62	8.0	25.4	7.87
I21	06 May 2021	15	12.33	75.60	6.2	33.60	8.0	25.4	5.80
I21	06 May 2021	16	12.16	79.99	6.1	33.59	7.9	25.5	4.68
I21	06 May 2021	17	11.99	81.11	6.0	33.59	7.9	25.5	3.81
I21	06 May 2021	18	11.83	82.56	5.9	33.59	7.9	25.5	3.10
I21	06 May 2021	19	11.76	84.02	5.8	33.61	7.9	25.6	2.29
I21	06 May 2021	20	11.68	85.09	5.7	33.62	7.9	25.6	2.17
I21	06 May 2021	21	11.58	85.15	5.6	33.63	7.9	25.6	2.00
I21	06 May 2021	22	11.56	85.18	5.6	33.63	7.9	25.6	2.01
I21	06 May 2021	23	11.53	85.25	5.5	33.63	7.9	25.6	1.69
I21	06 May 2021	24	11.51	85.66	5.5	33.63	7.9	25.6	1.68
I21	06 May 2021	25	11.46	85.72	5.4	33.64	7.9	25.6	1.90
I21	06 May 2021	26	11.36	85.89	5.3	33.66	7.9	25.7	1.68
I21	06 May 2021	27	11.23	85.75	5.0	33.68	7.9	25.7	1.50
I21	06 May 2021	28	11.19	85.14	4.9	33.68	7.8	25.7	1.59
I21	06 May 2021	29	11.19	84.74	4.9	33.68	7.8	25.7	1.58
I21	06 May 2021	30	11.19	84.44	4.9	33.68	7.8	25.7	1.36
I21	06 May 2021	31	11.19	84.27	4.9	33.68	7.8	25.7	1.55
I21	06 May 2021	32	11.19	84.31	4.9	33.68	7.8	25.7	1.51
I21	06 May 2021	33	11.18	84.26	4.9	33.69	7.8	25.7	1.73
I21	06 May 2021	34	11.17	84.29	4.9	33.69	7.8	25.7	1.56

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I21	06 May 2021	35	11.16	84.17	4.9	33.69	7.8	25.7	1.61
I21	06 May 2021	36	11.15	84.42	4.9	33.69	7.8	25.7	1.52
I21	06 May 2021	37	11.14	84.40	4.8	33.69	7.8	25.7	1.46
I21	06 May 2021	38	11.14	84.37	4.8	33.69	7.8	25.7	1.34
I21	06 May 2021	39	11.14	84.31	4.8	33.69	7.8	25.7	1.38
I21	06 May 2021	40	11.14	84.04	4.8	33.69	7.8	25.7	1.40
I21	06 May 2021	41	11.14	84.33	4.8	33.69	7.8	25.7	1.44
I22	06 May 2021	1	17.22	74.78	9.6	33.69	8.2	24.5	4.15
I22	06 May 2021	2	17.22	74.71	9.6	33.69	8.2	24.5	4.52
I22	06 May 2021	3	17.22	74.57	9.5	33.69	8.2	24.5	5.14
I22	06 May 2021	4	17.07	74.19	9.4	33.69	8.2	24.5	5.71
I22	06 May 2021	5	16.85	74.71	9.3	33.69	8.2	24.5	5.57
I22	06 May 2021	6	15.95	76.48	8.8	33.74	8.2	24.8	4.99
I22	06 May 2021	7	14.71	74.57	8.7	33.64	8.2	25.0	5.56
I22	06 May 2021	8	14.63	73.95	8.7	33.62	8.2	25.0	5.79
I22	06 May 2021	9	14.47	73.89	8.8	33.63	8.2	25.0	5.86
I22	06 May 2021	10	14.10	73.00	8.8	33.65	8.2	25.1	6.45
I22	06 May 2021	11	13.52	69.42	8.3	33.63	8.1	25.2	8.66
I22	06 May 2021	12	12.96	66.19	7.8	33.62	8.1	25.3	11.57
I22	06 May 2021	13	12.61	65.08	7.3	33.59	8.0	25.4	12.26
I22	06 May 2021	14	12.54	70.19	7.1	33.58	8.0	25.4	11.33
I22	06 May 2021	15	12.25	76.52	6.8	33.58	8.0	25.4	8.05
I22	06 May 2021	16	12.23	78.48	6.8	33.58	8.0	25.4	6.03
I22	06 May 2021	17	12.18	79.45	6.6	33.62	8.0	25.5	5.69
I22	06 May 2021	18	12.06	80.02	6.3	33.68	8.0	25.6	4.52
I22	06 May 2021	19	12.07	79.66	6.0	33.70	7.9	25.6	3.78
I22	06 May 2021	20	12.07	79.65	6.0	33.70	7.9	25.6	3.66
I22	06 May 2021	21	12.07	79.52	6.0	33.71	7.9	25.6	3.90
I22	06 May 2021	22	12.07	79.57	6.0	33.71	7.9	25.6	3.57
I22	06 May 2021	23	12.07	79.39	6.0	33.71	7.9	25.6	3.65
I22	06 May 2021	24	12.07	79.02	6.0	33.71	7.9	25.6	3.66
I22	06 May 2021	25	12.06	79.24	5.9	33.71	7.9	25.6	3.49
I22	06 May 2021	26	12.05	79.62	5.9	33.71	7.9	25.6	3.32
I22	06 May 2021	27	12.04	79.73	5.9	33.72	7.9	25.6	3.37
I22	06 May 2021	28	12.03	80.02	5.9	33.72	7.9	25.6	3.25
I23	06 May 2021	1	17.39	66.15	10.4	33.67	8.3	24.4	7.77
I23	06 May 2021	2	17.34	64.05	10.4	33.67	8.3	24.4	9.89
I23	06 May 2021	3	16.89	63.79	10.3	33.67	8.3	24.5	11.78
I23	06 May 2021	4	16.23	75.32	9.4	33.70	8.2	24.7	7.15
I23	06 May 2021	5	15.74	77.01	9.4	33.67	8.2	24.8	5.02
I23	06 May 2021	6	14.92	76.69	10.0	33.70	8.2	25.0	4.52
I23	06 May 2021	7	14.55	76.35	10.0	33.68	8.2	25.1	4.55
I23	06 May 2021	8	14.21	75.35	9.2	33.69	8.2	25.1	4.89
I23	06 May 2021	9	13.93	75.43	8.4	33.67	8.2	25.2	4.94
I23	06 May 2021	10	13.82	76.71	7.9	33.68	8.1	25.2	5.10
I23	06 May 2021	11	13.23	76.68	7.1	33.72	8.1	25.4	5.33
I23	06 May 2021	12	13.09	76.67	6.9	33.69	8.0	25.4	5.29
I23	06 May 2021	13	12.84	76.32	6.6	33.70	8.0	25.4	5.46
I23	06 May 2021	14	12.79	76.18	6.4	33.70	8.0	25.4	5.36
I23	06 May 2021	15	12.78	75.94	6.4	33.70	8.0	25.4	5.32
I23	06 May 2021	16	12.77	75.99	6.4	33.70	8.0	25.4	5.14
I23	06 May 2021	17	12.76	75.90	6.4	33.70	8.0	25.4	4.97
I23	06 May 2021	18	12.74	75.98	6.4	33.70	8.0	25.4	4.77
I23	06 May 2021	19	12.72	76.18	6.4	33.70	8.0	25.4	4.72
I23	06 May 2021	20	12.71	76.58	6.4	33.70	8.0	25.4	4.49
I23	06 May 2021	21	12.71	76.72	6.4	33.70	8.0	25.4	4.42
I27	06 May 2021	1	17.53	78.18	9.3	33.68	8.2	24.4	2.63
I27	06 May 2021	2	17.53	78.34	9.3	33.68	8.2	24.4	2.59

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I27	06 May 2021	3	17.52	78.33	9.3	33.68	8.2	24.4	3.15
I27	06 May 2021	4	17.34	77.34	9.2	33.68	8.2	24.4	3.76
I27	06 May 2021	5	17.09	78.17	8.9	33.69	8.2	24.5	3.39
I27	06 May 2021	6	16.56	78.85	8.8	33.69	8.2	24.6	3.18
I27	06 May 2021	7	16.19	79.08	8.7	33.67	8.2	24.7	3.22
I27	06 May 2021	8	15.46	78.13	8.7	33.68	8.2	24.9	3.59
I27	06 May 2021	9	15.01	77.81	8.8	33.65	8.2	24.9	3.91
I27	06 May 2021	10	14.86	76.86	8.7	33.64	8.2	25.0	4.32
I27	06 May 2021	11	13.89	73.29	8.4	33.65	8.1	25.2	6.32
I27	06 May 2021	12	13.41	70.55	8.7	33.60	8.1	25.2	8.20
I27	06 May 2021	13	13.33	68.40	8.7	33.62	8.1	25.3	8.80
I27	06 May 2021	14	13.04	68.99	7.9	33.67	8.1	25.4	8.83
I27	06 May 2021	15	12.63	69.59	7.3	33.64	8.1	25.4	9.99
I27	06 May 2021	16	12.30	71.12	6.9	33.57	8.0	25.4	9.72
I27	06 May 2021	17	12.15	76.96	6.5	33.59	8.0	25.5	7.60
I27	06 May 2021	18	11.93	79.51	6.2	33.61	8.0	25.5	5.60
I27	06 May 2021	19	11.91	80.15	6.1	33.64	7.9	25.6	4.60
I27	06 May 2021	20	11.97	80.00	6.0	33.67	7.9	25.6	4.16
I27	06 May 2021	21	12.03	79.63	6.0	33.69	7.9	25.6	3.55
I27	06 May 2021	22	12.03	79.76	5.9	33.70	7.9	25.6	3.50
I27	06 May 2021	23	12.03	79.40	5.9	33.70	7.9	25.6	3.30
I27	06 May 2021	24	12.03	79.64	5.9	33.70	7.9	25.6	3.27
I27	06 May 2021	25	12.02	79.66	5.9	33.71	7.9	25.6	3.18
I27	06 May 2021	26	12.02	79.87	5.9	33.71	7.9	25.6	3.12
I27	06 May 2021	27	12.01	79.80	5.9	33.71	7.9	25.6	2.95
I27	06 May 2021	28	12.00	79.88	5.9	33.71	7.9	25.6	2.92
I28	05 May 2021	1	17.00	69.68	10.2	33.68	8.3	24.5	6.06
I28	05 May 2021	2	16.87	68.66	10.3	33.69	8.3	24.5	7.99
I28	05 May 2021	3	16.54	67.57	10.6	33.68	8.3	24.6	9.31
I28	05 May 2021	4	16.32	68.03	10.5	33.68	8.3	24.7	9.17
I28	05 May 2021	5	16.11	68.61	10.2	33.69	8.3	24.7	8.55
I28	05 May 2021	6	15.77	69.35	9.8	33.69	8.3	24.8	8.61
I28	05 May 2021	7	15.47	69.69	9.3	33.69	8.2	24.9	8.17
I28	05 May 2021	8	15.20	70.65	8.9	33.69	8.2	24.9	7.98
I28	05 May 2021	9	15.07	71.09	8.8	33.68	8.2	24.9	7.82
I28	05 May 2021	10	14.95	71.42	8.5	33.69	8.2	25.0	7.69
I28	05 May 2021	11	14.42	71.83	7.9	33.70	8.1	25.1	8.04
I28	05 May 2021	12	14.21	72.45	7.6	33.69	8.1	25.1	8.26
I28	05 May 2021	13	13.95	72.67	7.4	33.68	8.1	25.2	7.97
I28	05 May 2021	14	13.85	73.26	7.2	33.68	8.1	25.2	7.37
I28	05 May 2021	15	13.22	74.72	6.6	33.72	8.0	25.4	6.18
I28	05 May 2021	16	12.84	76.14	6.2	33.69	8.0	25.4	5.11
I28	05 May 2021	17	12.48	77.86	6.0	33.67	8.0	25.5	4.09
I28	05 May 2021	18	12.34	79.61	6.0	33.66	8.0	25.5	3.62
I28	05 May 2021	19	12.00	80.77	5.9	33.66	8.0	25.5	2.81
I28	05 May 2021	20	11.79	82.37	5.8	33.64	7.9	25.6	2.17
I28	05 May 2021	21	11.64	83.93	5.6	33.64	7.9	25.6	1.86
I28	05 May 2021	22	11.51	84.96	5.6	33.63	7.9	25.6	1.61
I28	05 May 2021	23	11.49	85.70	5.5	33.63	7.9	25.6	1.51
I28	05 May 2021	24	11.49	85.89	5.6	33.63	7.9	25.6	1.41
I28	05 May 2021	25	11.49	85.97	5.5	33.63	7.9	25.6	1.42
I28	05 May 2021	26	11.47	85.93	5.5	33.65	7.9	25.6	1.45
I28	05 May 2021	27	11.42	85.99	5.4	33.65	7.9	25.7	1.40
I28	05 May 2021	28	11.38	85.77	5.4	33.65	7.9	25.7	1.33
I28	05 May 2021	29	11.30	86.31	5.3	33.66	7.9	25.7	1.31
I28	05 May 2021	30	11.25	86.26	5.2	33.67	7.9	25.7	1.30
I28	05 May 2021	31	11.22	86.62	5.2	33.67	7.9	25.7	1.28
I28	05 May 2021	32	11.21	86.64	5.1	33.67	7.9	25.7	1.27
I28	05 May 2021	33	11.17	86.53	5.1	33.68	7.9	25.7	1.29
I28	05 May 2021	34	11.16	86.67	5.1	33.68	7.9	25.7	1.36

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I28	05 May 2021	35	11.15	86.77	5.1	33.69	7.9	25.7	1.27
I28	05 May 2021	36	11.13	86.46	5.0	33.69	7.9	25.7	1.31
I28	05 May 2021	37	11.04	86.79	4.9	33.71	7.8	25.8	1.17
I28	05 May 2021	38	11.00	86.95	4.9	33.71	7.8	25.8	1.20
I28	05 May 2021	39	10.94	86.88	4.8	33.72	7.8	25.8	1.14
I28	05 May 2021	40	10.85	86.89	4.7	33.73	7.8	25.8	1.03
I28	05 May 2021	41	10.86	86.85	4.7	33.72	7.8	25.8	0.92
I28	05 May 2021	42	10.81	86.59	4.7	33.73	7.8	25.8	0.96
I28	05 May 2021	43	10.80	86.58	4.7	33.73	7.8	25.8	0.97
I28	05 May 2021	44	10.79	86.66	4.7	33.73	7.8	25.8	0.92
I28	05 May 2021	45	10.77	86.61	4.6	33.73	7.8	25.8	0.91
I28	05 May 2021	46	10.76	86.52	4.6	33.74	7.8	25.8	0.89
I28	05 May 2021	47	10.75	86.67	4.6	33.74	7.8	25.8	0.94
I28	05 May 2021	48	10.75	86.69	4.6	33.74	7.8	25.8	0.87
I28	05 May 2021	49	10.72	86.63	4.6	33.75	7.8	25.9	0.86
I28	05 May 2021	50	10.69	86.64	4.5	33.75	7.8	25.9	0.85
I28	05 May 2021	51	10.69	86.41	4.5	33.75	7.8	25.9	0.81
I28	05 May 2021	52	10.69	86.36	4.5	33.75	7.8	25.9	0.81
I28	05 May 2021	53	10.69	86.42	4.5	33.76	7.8	25.9	0.85
I28	05 May 2021	54	10.68	86.29	4.4	33.76	7.8	25.9	0.84
I28	05 May 2021	55	10.67	85.61	4.4	33.76	7.8	25.9	0.80
I29	05 May 2021	1	17.39	74.07	9.6	33.67	8.3	24.4	1.79
I29	05 May 2021	2	17.32	73.79	9.6	33.68	8.3	24.4	2.03
I29	05 May 2021	3	17.07	74.25	9.6	33.67	8.2	24.5	2.20
I29	05 May 2021	4	16.94	74.72	9.5	33.67	8.2	24.5	2.48
I29	05 May 2021	5	16.68	74.88	9.3	33.68	8.2	24.6	3.02
I29	05 May 2021	6	15.80	73.94	9.0	33.74	8.2	24.8	4.79
I29	05 May 2021	7	14.55	69.05	8.5	33.72	8.2	25.1	8.01
I29	05 May 2021	8	13.44	64.55	7.8	33.66	8.1	25.3	9.96
I29	05 May 2021	9	13.15	67.97	7.5	33.59	8.1	25.3	9.26
I29	05 May 2021	10	13.01	72.40	7.4	33.59	8.1	25.3	8.25
I29	05 May 2021	11	12.83	75.12	7.2	33.59	8.1	25.3	7.33
I29	05 May 2021	12	12.56	76.36	6.8	33.62	8.1	25.4	6.48
I29	05 May 2021	13	12.15	77.75	6.3	33.59	8.0	25.5	5.47
I29	05 May 2021	14	12.02	80.02	6.2	33.60	8.0	25.5	4.58
I29	05 May 2021	15	12.01	80.10	6.1	33.62	8.0	25.5	4.42
I29	05 May 2021	16	11.83	80.55	5.9	33.62	8.0	25.6	4.09
I29	05 May 2021	17	11.74	81.03	5.8	33.63	7.9	25.6	3.73
I29	05 May 2021	18	11.66	81.99	5.6	33.66	7.9	25.6	3.46
I29	05 May 2021	19	11.62	83.15	5.5	33.67	7.9	25.6	2.90
I29	05 May 2021	20	11.54	83.90	5.4	33.69	7.9	25.7	2.62
I29	05 May 2021	21	11.43	84.32	5.3	33.69	7.9	25.7	2.17
I29	05 May 2021	22	11.35	84.88	5.2	33.70	7.9	25.7	1.94
I29	05 May 2021	23	11.19	84.67	5.0	33.71	7.9	25.7	1.73
I29	05 May 2021	24	11.13	83.55	4.8	33.70	7.9	25.7	1.45
I29	05 May 2021	25	11.14	81.93	4.7	33.70	7.8	25.7	1.68
I29	05 May 2021	26	11.13	81.29	4.7	33.71	7.8	25.7	1.38
I29	05 May 2021	27	11.12	80.74	4.7	33.70	7.8	25.7	1.30
I29	05 May 2021	28	11.12	80.63	4.7	33.70	7.8	25.7	1.25
I29	05 May 2021	29	11.12	80.60	4.7	33.70	7.8	25.7	1.25
I29	05 May 2021	30	11.12	80.43	4.7	33.71	7.8	25.7	1.28
I29	05 May 2021	31	11.12	80.63	4.7	33.71	7.8	25.7	1.35
I29	05 May 2021	32	11.12	80.59	4.7	33.71	7.8	25.7	1.32
I29	05 May 2021	33	11.11	80.43	4.7	33.71	7.8	25.7	1.28
I29	05 May 2021	34	11.11	80.30	4.6	33.71	7.8	25.7	1.36
I29	05 May 2021	35	11.11	80.27	4.7	33.71	7.8	25.7	1.31
I29	05 May 2021	36	11.11	80.16	4.6	33.70	7.8	25.7	1.32
I29	05 May 2021	37	11.11	80.09	4.6	33.71	7.8	25.7	1.27
I3	04 May 2021	1	17.19	80.48	8.4	33.68	8.2	24.5	0.86

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I3	04 May 2021	2	17.06	81.18	8.3	33.67	8.2	24.5	0.85
I3	04 May 2021	3	16.97	81.10	8.3	33.67	8.2	24.5	0.91
I3	04 May 2021	4	16.73	81.29	8.4	33.67	8.2	24.6	1.02
I3	04 May 2021	5	16.48	79.58	8.6	33.68	8.2	24.6	1.35
I3	04 May 2021	6	15.25	75.58	9.4	33.68	8.2	24.9	2.92
I3	04 May 2021	7	15.25	72.51	9.3	33.68	8.2	24.9	4.14
I3	04 May 2021	8	14.60	69.13	9.4	33.66	8.2	25.0	6.62
I3	04 May 2021	9	13.55	64.99	8.3	33.73	8.2	25.3	10.19
I3	04 May 2021	10	13.04	65.69	7.7	33.56	8.1	25.3	11.88
I3	04 May 2021	11	12.61	74.59	7.3	33.61	8.1	25.4	9.18
I3	04 May 2021	12	12.48	77.17	7.0	33.57	8.0	25.4	7.27
I3	04 May 2021	13	12.53	76.40	7.0	33.59	8.0	25.4	7.26
I3	04 May 2021	14	12.56	72.66	7.0	33.63	8.0	25.4	8.46
I3	04 May 2021	15	12.40	70.15	6.7	33.68	8.0	25.5	9.98
I3	04 May 2021	16	12.15	69.07	6.3	33.70	8.0	25.5	11.04
I3	04 May 2021	17	11.92	71.25	6.0	33.69	7.9	25.6	9.58
I3	04 May 2021	18	11.57	79.04	5.7	33.68	7.9	25.6	6.15
I3	04 May 2021	19	11.39	81.98	5.4	33.67	7.9	25.7	3.71
I3	04 May 2021	20	11.35	84.04	5.3	33.67	7.9	25.7	2.58
I3	04 May 2021	21	11.32	84.71	5.2	33.68	7.9	25.7	2.07
I3	04 May 2021	22	11.33	83.25	5.2	33.70	7.9	25.7	1.90
I3	04 May 2021	23	11.33	82.71	5.1	33.70	7.9	25.7	1.79
I3	04 May 2021	24	11.33	82.37	5.1	33.70	7.9	25.7	1.76
I3	04 May 2021	25	11.33	81.69	5.1	33.70	7.9	25.7	1.82
I3	04 May 2021	26	11.34	81.43	5.1	33.70	7.9	25.7	1.87
I30	05 May 2021	1	17.64	57.18	13.9	33.68	8.5	24.4	5.42
I30	05 May 2021	2	17.42	56.38	13.4	33.71	8.5	24.4	6.65
I30	05 May 2021	3	17.07	54.32	12.4	33.69	8.4	24.5	11.44
I30	05 May 2021	4	16.90	59.03	11.8	33.70	8.4	24.5	14.04
I30	05 May 2021	5	16.27	64.27	10.9	33.75	8.3	24.7	13.23
I30	05 May 2021	6	15.49	68.97	9.7	33.73	8.3	24.9	10.87
I30	05 May 2021	7	15.00	70.10	9.4	33.70	8.2	25.0	8.94
I30	05 May 2021	8	14.82	71.13	9.4	33.69	8.2	25.0	8.05
I30	05 May 2021	9	14.24	71.66	8.9	33.73	8.2	25.2	7.46
I30	05 May 2021	10	13.69	73.03	8.0	33.72	8.1	25.3	7.28
I30	05 May 2021	11	13.37	73.88	7.6	33.70	8.1	25.3	7.11
I30	05 May 2021	12	13.26	74.33	7.3	33.70	8.1	25.3	6.90
I30	05 May 2021	13	13.02	75.13	7.0	33.71	8.0	25.4	6.50
I30	05 May 2021	14	12.64	76.47	6.6	33.72	8.0	25.5	6.05
I30	05 May 2021	15	12.17	78.77	6.3	33.69	8.0	25.5	5.29
I30	05 May 2021	16	11.83	81.30	5.9	33.62	8.0	25.5	4.16
I30	05 May 2021	17	11.66	82.17	5.7	33.60	7.9	25.6	3.41
I30	05 May 2021	18	11.65	82.73	5.7	33.61	7.9	25.6	2.89
I30	05 May 2021	19	11.64	82.69	5.7	33.63	7.9	25.6	2.95
I30	05 May 2021	20	11.66	82.02	5.7	33.66	7.9	25.6	2.53
I30	05 May 2021	21	11.67	80.70	5.6	33.67	7.9	25.6	2.38
I30	05 May 2021	22	11.67	79.61	5.6	33.69	7.9	25.6	2.13
I30	05 May 2021	23	11.66	78.51	5.5	33.69	7.9	25.6	2.14
I30	05 May 2021	24	11.66	77.99	5.5	33.69	7.9	25.6	2.02
I30	05 May 2021	25	11.65	77.25	5.4	33.69	7.9	25.6	1.94
I30	05 May 2021	26	11.65	76.43	5.4	33.70	7.9	25.6	1.90
I30	05 May 2021	27	11.65	75.69	5.4	33.70	7.9	25.6	1.81
I31	05 May 2021	1	17.63	42.32	13.5	33.68	8.5	24.3	10.91
I31	05 May 2021	2	17.06	42.69	12.4	33.77	8.5	24.6	12.56
I31	05 May 2021	3	15.65	48.09	10.8	33.73	8.4	24.8	11.66
I31	05 May 2021	4	15.03	59.42	10.0	33.72	8.3	25.0	9.65
I31	05 May 2021	5	14.48	66.17	9.0	33.70	8.2	25.1	8.39
I31	05 May 2021	6	14.08	71.27	8.4	33.69	8.2	25.2	7.48
I31	05 May 2021	7	13.98	72.45	8.2	33.67	8.1	25.2	6.51

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I31	05 May 2021	8	13.97	72.95	8.2	33.66	8.1	25.2	6.32
I31	05 May 2021	9	13.93	73.08	8.1	33.67	8.1	25.2	5.96
I31	05 May 2021	10	13.89	73.56	8.1	33.66	8.1	25.2	5.48
I31	05 May 2021	11	13.89	73.73	8.1	33.66	8.1	25.2	5.30
I31	05 May 2021	12	13.88	73.83	8.0	33.67	8.1	25.2	5.25
I31	05 May 2021	13	13.87	73.77	8.0	33.67	8.1	25.2	5.25
I31	05 May 2021	14	13.84	74.06	7.8	33.68	8.1	25.2	5.02
I31	05 May 2021	15	13.51	73.73	7.2	33.71	8.1	25.3	5.02
I31	05 May 2021	16	13.18	72.59	6.9	33.70	8.0	25.4	4.78
I31	05 May 2021	17	13.06	72.60	6.9	33.69	8.0	25.4	4.05
I31	05 May 2021	18	13.03	72.63	6.9	33.68	8.0	25.4	3.45
I31	05 May 2021	19	13.04	71.73	6.9	33.68	8.0	25.4	3.11
I33	05 May 2021	1	17.33	64.96	12.2	33.68	8.4	24.4	4.28
I33	05 May 2021	2	17.26	63.49	12.3	33.68	8.4	24.4	5.99
I33	05 May 2021	3	17.15	56.90	12.2	33.69	8.4	24.5	10.58
I33	05 May 2021	4	16.82	60.13	11.8	33.73	8.4	24.6	11.41
I33	05 May 2021	5	16.23	64.83	11.4	33.72	8.3	24.7	10.50
I33	05 May 2021	6	15.97	67.11	10.8	33.70	8.3	24.8	10.51
I33	05 May 2021	7	15.29	67.01	10.2	33.76	8.3	25.0	10.50
I33	05 May 2021	8	14.90	66.84	9.9	33.67	8.2	25.0	10.43
I33	05 May 2021	9	14.85	66.49	9.9	33.66	8.2	25.0	10.62
I33	05 May 2021	10	14.65	65.92	9.5	33.67	8.2	25.0	11.35
I33	05 May 2021	11	14.07	63.85	8.7	33.67	8.2	25.1	13.04
I33	05 May 2021	12	13.72	63.67	8.0	33.64	8.1	25.2	13.37
I33	05 May 2021	13	13.36	66.23	7.4	33.65	8.1	25.3	12.10
I33	05 May 2021	14	12.95	69.64	7.0	33.65	8.0	25.4	10.38
I33	05 May 2021	15	12.81	72.09	6.9	33.65	8.0	25.4	9.38
I33	05 May 2021	16	12.41	73.35	6.6	33.66	8.0	25.5	9.11
I33	05 May 2021	17	12.11	74.31	6.2	33.65	8.0	25.5	7.58
I33	05 May 2021	18	12.03	75.38	5.8	33.68	7.9	25.6	5.35
I33	05 May 2021	19	12.10	74.85	5.8	33.67	7.9	25.5	4.56
I33	05 May 2021	20	12.00	74.46	5.7	33.69	7.9	25.6	3.82
I33	05 May 2021	21	11.99	74.04	5.7	33.69	7.9	25.6	3.30
I33	05 May 2021	22	11.97	73.73	5.6	33.69	7.9	25.6	3.19
I33	05 May 2021	23	11.89	72.86	5.4	33.70	7.9	25.6	2.87
I33	05 May 2021	24	11.81	70.95	5.2	33.70	7.9	25.6	2.51
I33	05 May 2021	25	11.80	69.79	5.2	33.70	7.9	25.6	2.29
I33	05 May 2021	26	11.77	69.00	5.1	33.70	7.9	25.6	2.19
I33	05 May 2021	27	11.74	68.61	5.1	33.70	7.9	25.6	2.16
I33	05 May 2021	28	11.72	68.07	5.1	33.70	7.9	25.6	2.07
I33	05 May 2021	29	11.69	67.96	5.0	33.70	7.9	25.6	2.07
I33	05 May 2021	30	11.67	67.13	5.0	33.70	7.9	25.6	2.07
I34	05 May 2021	1	17.19	61.61	11.9	33.68	8.4	24.5	5.82
I34	05 May 2021	2	17.15	61.45	11.8	33.68	8.4	24.5	11.00
I34	05 May 2021	3	17.12	57.46	11.8	33.68	8.4	24.5	13.98
I34	05 May 2021	4	17.10	57.93	11.7	33.68	8.4	24.5	13.39
I34	05 May 2021	5	17.05	60.21	11.5	33.68	8.4	24.5	12.77
I34	05 May 2021	6	16.84	62.49	11.4	33.70	8.4	24.6	11.95
I34	05 May 2021	7	16.27	64.25	11.2	33.69	8.3	24.7	11.12
I34	05 May 2021	8	15.76	64.79	10.5	33.72	8.3	24.8	10.80
I34	05 May 2021	9	14.85	64.66	9.8	33.71	8.3	25.0	9.70
I34	05 May 2021	10	14.11	68.87	8.7	33.72	8.2	25.2	8.38
I34	05 May 2021	11	13.51	72.95	7.7	33.72	8.1	25.3	7.20
I34	05 May 2021	12	13.10	74.77	7.2	33.69	8.0	25.4	6.21
I34	05 May 2021	13	12.98	74.09	7.1	33.68	8.0	25.4	6.20
I34	05 May 2021	14	12.97	73.82	7.1	33.68	8.0	25.4	6.39
I34	05 May 2021	15	12.79	74.21	6.9	33.69	8.0	25.4	6.26
I34	05 May 2021	16	12.61	73.81	6.6	33.68	8.0	25.4	5.99
I34	05 May 2021	17	12.64	72.96	6.6	33.67	8.0	25.4	5.55

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I34	05 May 2021	18	12.53	72.70	6.4	33.69	8.0	25.5	5.03
I34	05 May 2021	19	12.50	72.62	6.3	33.68	8.0	25.5	4.61
I35	05 May 2021	1	17.36	65.12	11.1	33.68	8.4	24.4	2.81
I35	05 May 2021	2	17.29	64.91	10.8	33.69	8.4	24.4	3.62
I35	05 May 2021	3	16.53	62.84	10.1	33.72	8.3	24.6	8.50
I35	05 May 2021	4	15.75	57.46	9.2	33.70	8.3	24.8	12.00
I35	05 May 2021	5	15.43	61.74	8.6	33.67	8.2	24.9	10.28
I35	05 May 2021	6	15.24	65.77	8.5	33.67	8.2	24.9	8.71
I35	05 May 2021	7	15.06	67.15	8.6	33.67	8.2	24.9	8.28
I35	05 May 2021	8	14.76	67.81	8.6	33.68	8.2	25.0	7.72
I35	05 May 2021	9	14.50	68.29	8.4	33.67	8.2	25.1	7.17
I35	05 May 2021	10	14.22	69.61	8.4	33.68	8.2	25.1	6.82
I35	05 May 2021	11	13.79	71.28	8.1	33.69	8.2	25.2	6.45
I35	05 May 2021	12	13.61	72.93	7.9	33.67	8.1	25.2	6.07
I35	05 May 2021	13	13.55	73.67	7.8	33.67	8.1	25.3	5.87
I35	05 May 2021	14	13.49	74.06	7.6	33.67	8.1	25.3	5.81
I35	05 May 2021	15	13.35	74.11	7.3	33.69	8.1	25.3	5.24
I35	05 May 2021	16	13.06	74.35	6.8	33.69	8.0	25.4	4.84
I35	05 May 2021	17	12.82	67.94	6.2	33.69	8.0	25.4	5.00
I35	05 May 2021	18	12.70	57.06	6.0	33.69	8.0	25.4	4.34
I35	05 May 2021	19	12.61	53.84	5.9	33.68	8.0	25.4	3.75
I36	05 May 2021	1	17.16	53.24	8.9	33.69	8.3	24.5	4.85
I36	05 May 2021	2	17.15	53.24	8.9	33.69	8.3	24.5	5.10
I36	05 May 2021	3	17.03	51.97	8.9	33.70	8.3	24.5	8.53
I36	05 May 2021	4	16.84	48.80	8.8	33.70	8.3	24.6	14.72
I36	05 May 2021	5	16.51	46.59	8.4	33.72	8.3	24.6	18.27
I36	05 May 2021	6	15.99	52.74	8.0	33.70	8.2	24.7	16.05
I36	05 May 2021	7	15.79	58.54	7.8	33.70	8.2	24.8	13.31
I36	05 May 2021	8	15.26	61.12	7.7	33.68	8.2	24.9	10.83
I36	05 May 2021	9	14.93	57.14	7.1	33.72	8.1	25.0	9.29
I36	05 May 2021	10	14.05	53.16	6.6	33.72	8.1	25.2	8.57
I36	05 May 2021	11	13.84	45.65	6.8	33.66	8.0	25.2	8.81
I37	05 May 2021	1	16.95	70.03	11.3	33.67	8.3	24.5	5.03
I37	05 May 2021	2	16.93	69.25	11.3	33.67	8.3	24.5	8.11
I37	05 May 2021	3	16.91	64.13	11.2	33.67	8.3	24.5	11.79
I37	05 May 2021	4	16.88	65.55	10.8	33.68	8.3	24.5	10.62
I37	05 May 2021	5	16.17	67.01	10.5	33.74	8.3	24.7	9.57
I37	05 May 2021	6	15.68	66.90	9.9	33.70	8.3	24.8	8.66
I37	05 May 2021	7	15.28	67.15	9.5	33.70	8.2	24.9	8.81
I37	05 May 2021	8	14.97	65.94	9.1	33.68	8.2	25.0	9.17
I37	05 May 2021	9	14.79	64.67	8.7	33.68	8.2	25.0	9.24
I37	05 May 2021	10	14.15	69.47	7.6	33.70	8.1	25.2	8.29
I37	05 May 2021	11	13.70	70.08	6.5	33.72	8.0	25.3	7.92
I37	05 May 2021	12	13.21	65.50	6.3	33.69	8.0	25.3	7.24
I38	05 May 2021	1	17.43	69.63	10.3	33.68	8.3	24.4	1.40
I38	05 May 2021	2	17.42	69.68	10.3	33.69	8.3	24.4	1.47
I38	05 May 2021	3	17.37	69.83	10.3	33.69	8.3	24.4	1.57
I38	05 May 2021	4	17.12	69.63	10.6	33.72	8.3	24.5	2.07
I38	05 May 2021	5	16.37	66.91	11.2	33.73	8.3	24.7	6.54
I38	05 May 2021	6	15.85	57.17	10.6	33.71	8.3	24.8	13.81
I38	05 May 2021	7	15.23	63.91	9.2	33.70	8.3	24.9	13.59
I38	05 May 2021	8	15.02	68.60	8.3	33.67	8.2	24.9	11.26
I38	05 May 2021	9	14.83	70.20	7.6	33.68	8.1	25.0	9.35
I38	05 May 2021	10	14.24	65.75	6.7	33.73	8.1	25.2	8.14
I38	05 May 2021	11	13.82	54.40	6.3	33.67	8.0	25.2	8.78
I4	04 May 2021	1	16.54	71.75	9.8	33.68	8.2	24.6	2.23

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I4	04 May 2021	2	16.29	68.69	10.3	33.69	8.3	24.7	3.22
I4	04 May 2021	3	16.07	62.50	10.8	33.68	8.3	24.7	5.90
I4	04 May 2021	4	15.58	58.01	10.9	33.68	8.3	24.8	12.34
I4	04 May 2021	5	15.49	58.12	10.8	33.68	8.3	24.8	15.38
I4	04 May 2021	6	15.11	60.38	10.5	33.69	8.3	24.9	14.78
I4	04 May 2021	7	15.06	62.96	10.4	33.67	8.3	24.9	13.64
I4	04 May 2021	8	14.78	64.59	9.9	33.69	8.2	25.0	12.58
I4	04 May 2021	9	14.53	67.07	9.5	33.69	8.2	25.1	11.11
I4	04 May 2021	10	14.37	68.92	9.0	33.68	8.2	25.1	9.63
I4	04 May 2021	11	14.38	70.09	8.9	33.67	8.2	25.1	8.75
I4	04 May 2021	12	14.29	69.90	8.8	33.68	8.2	25.1	8.32
I4	04 May 2021	13	14.22	70.87	8.6	33.68	8.1	25.1	7.73
I4	04 May 2021	14	14.18	72.38	8.4	33.68	8.1	25.1	6.83
I4	04 May 2021	15	13.90	69.97	8.2	33.70	8.1	25.2	5.02
I4	04 May 2021	16	13.59	69.33	7.8	33.70	8.1	25.3	4.15
I4	04 May 2021	17	13.20	68.65	7.3	33.71	8.1	25.4	3.70
I4	04 May 2021	18	12.68	66.74	6.9	33.72	8.0	25.5	3.00
I5	04 May 2021	1	16.82	75.29	9.5	33.66	8.2	24.5	1.89
I5	04 May 2021	2	16.69	74.81	10.1	33.68	8.2	24.6	2.22
I5	04 May 2021	3	16.30	72.60	11.3	33.67	8.3	24.7	4.30
I5	04 May 2021	4	16.21	61.46	11.7	33.66	8.3	24.7	8.89
I5	04 May 2021	5	15.83	45.53	11.9	33.66	8.4	24.8	23.35
I5	04 May 2021	6	15.75	47.06	11.6	33.65	8.3	24.8	27.28
I5	04 May 2021	7	15.31	50.26	11.0	33.65	8.3	24.9	22.02
I5	04 May 2021	8	15.17	56.23	10.7	33.65	8.3	24.9	17.41
I5	04 May 2021	9	15.01	60.08	10.4	33.65	8.3	24.9	13.58
I5	04 May 2021	10	14.97	59.92	9.9	33.65	8.2	24.9	11.89
I5	04 May 2021	11	14.89	59.03	9.4	33.64	8.2	24.9	10.45
I5	04 May 2021	12	14.88	59.22	9.3	33.64	8.2	24.9	9.62
I5	04 May 2021	13	14.84	59.79	9.1	33.64	8.2	25.0	8.12
I6	04 May 2021	1	17.16	81.21	8.3	33.67	8.2	24.5	0.85
I6	04 May 2021	2	16.79	80.22	8.6	33.68	8.2	24.6	0.99
I6	04 May 2021	3	16.44	77.17	9.0	33.67	8.2	24.6	1.29
I6	04 May 2021	4	15.49	72.97	9.8	33.72	8.2	24.9	2.71
I6	04 May 2021	5	14.98	66.27	10.3	33.69	8.3	25.0	6.35
I6	04 May 2021	6	14.89	59.93	9.9	33.67	8.2	25.0	9.28
I6	04 May 2021	7	14.18	60.80	8.8	33.72	8.2	25.2	12.34
I6	04 May 2021	8	13.79	65.21	8.0	33.69	8.1	25.2	12.25
I6	04 May 2021	9	13.68	70.00	7.7	33.69	8.1	25.2	10.89
I6	04 May 2021	10	13.31	72.49	7.3	33.70	8.1	25.3	9.27
I6	04 May 2021	11	13.04	72.10	7.2	33.70	8.0	25.4	8.90
I6	04 May 2021	12	12.98	73.19	7.1	33.69	8.0	25.4	7.99
I6	04 May 2021	13	12.89	74.33	7.0	33.70	8.0	25.4	7.40
I6	04 May 2021	14	12.72	73.78	6.8	33.71	8.0	25.4	7.32
I6	04 May 2021	15	12.62	73.12	6.8	33.70	8.0	25.5	7.34
I6	04 May 2021	16	12.39	75.06	6.6	33.72	8.0	25.5	6.07
I6	04 May 2021	17	12.19	76.13	6.5	33.72	8.0	25.6	5.41
I6	04 May 2021	18	12.17	77.73	6.4	33.71	8.0	25.6	4.73
I6	04 May 2021	19	11.92	80.19	6.1	33.72	7.9	25.6	3.92
I6	04 May 2021	20	11.63	80.07	5.7	33.72	7.9	25.7	2.95
I6	04 May 2021	21	11.50	80.80	5.5	33.71	7.9	25.7	2.43
I6	04 May 2021	22	11.49	80.73	5.4	33.70	7.9	25.7	2.18
I6	04 May 2021	23	11.49	79.94	5.4	33.70	7.9	25.7	2.16
I6	04 May 2021	24	11.49	78.88	5.4	33.70	7.9	25.7	2.21
I6	04 May 2021	25	11.49	77.73	5.4	33.70	7.9	25.7	2.24
I7	04 May 2021	1	16.80	77.28	9.0	33.68	8.2	24.5	2.01
I7	04 May 2021	2	16.79	77.16	9.1	33.68	8.2	24.5	2.30
I7	04 May 2021	3	16.74	76.30	9.2	33.68	8.2	24.6	3.13

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I7	04 May 2021	4	16.77	75.97	9.1	33.67	8.2	24.6	3.15
I7	04 May 2021	5	16.70	75.49	9.3	33.69	8.2	24.6	3.96
I7	04 May 2021	6	16.68	75.38	9.3	33.69	8.2	24.6	4.62
I7	04 May 2021	7	16.61	72.48	9.4	33.69	8.2	24.6	5.63
I7	04 May 2021	8	16.52	70.07	9.3	33.69	8.2	24.6	6.53
I7	04 May 2021	9	16.34	70.20	9.4	33.69	8.2	24.7	6.74
I7	04 May 2021	10	16.23	69.97	9.3	33.70	8.2	24.7	7.14
I7	04 May 2021	11	15.97	69.22	9.3	33.69	8.2	24.7	7.78
I7	04 May 2021	12	15.86	69.00	9.0	33.70	8.2	24.8	8.36
I7	04 May 2021	13	15.37	68.30	8.4	33.70	8.2	24.9	10.34
I7	04 May 2021	14	14.56	67.30	7.8	33.71	8.1	25.1	10.91
I7	04 May 2021	15	14.44	70.99	7.6	33.69	8.1	25.1	10.71
I7	04 May 2021	16	13.52	73.61	6.9	33.69	8.0	25.3	8.42
I7	04 May 2021	17	13.12	75.81	6.5	33.69	8.0	25.4	6.35
I7	04 May 2021	18	12.35	79.97	6.1	33.67	7.9	25.5	4.41
I7	04 May 2021	19	12.16	83.48	5.9	33.66	7.9	25.5	3.35
I7	04 May 2021	20	11.64	84.65	5.6	33.62	7.9	25.6	2.59
I7	04 May 2021	21	11.66	85.06	5.6	33.60	7.9	25.6	2.34
I7	04 May 2021	22	11.60	85.54	5.5	33.62	7.9	25.6	2.16
I7	04 May 2021	23	11.53	85.95	5.5	33.62	7.9	25.6	1.88
I7	04 May 2021	24	11.47	86.49	5.5	33.63	7.9	25.6	1.70
I7	04 May 2021	25	11.40	86.67	5.4	33.64	7.9	25.6	1.50
I7	04 May 2021	26	11.38	86.74	5.4	33.64	7.9	25.6	1.38
I7	04 May 2021	27	11.38	86.80	5.4	33.64	7.9	25.6	1.46
I7	04 May 2021	28	11.32	86.98	5.4	33.64	7.9	25.7	1.30
I7	04 May 2021	29	11.29	87.12	5.3	33.65	7.8	25.7	1.20
I7	04 May 2021	30	11.27	87.19	5.2	33.66	7.8	25.7	1.17
I7	04 May 2021	31	11.21	87.13	5.1	33.67	7.8	25.7	1.18
I7	04 May 2021	32	11.20	87.23	5.0	33.68	7.8	25.7	1.26
I7	04 May 2021	33	11.09	86.99	4.9	33.71	7.8	25.8	1.24
I7	04 May 2021	34	11.03	87.06	4.9	33.70	7.8	25.8	1.23
I7	04 May 2021	35	10.99	87.22	4.8	33.72	7.8	25.8	1.18
I7	04 May 2021	36	10.93	87.20	4.8	33.72	7.8	25.8	1.13
I7	04 May 2021	37	10.91	87.14	4.8	33.72	7.8	25.8	1.18
I7	04 May 2021	38	10.89	87.17	4.8	33.73	7.8	25.8	1.17
I7	04 May 2021	39	10.87	87.24	4.7	33.73	7.8	25.8	1.14
I7	04 May 2021	40	10.88	87.28	4.7	33.73	7.8	25.8	1.14
I7	04 May 2021	41	10.84	87.21	4.7	33.73	7.8	25.8	1.11
I7	04 May 2021	42	10.84	87.13	4.7	33.73	7.8	25.8	1.13
I7	04 May 2021	43	10.81	87.15	4.7	33.74	7.8	25.8	1.09
I7	04 May 2021	44	10.79	87.13	4.6	33.74	7.8	25.8	1.05
I7	04 May 2021	45	10.68	87.01	4.5	33.77	7.8	25.9	1.03
I7	04 May 2021	46	10.54	86.99	4.4	33.80	7.8	25.9	0.84
I7	04 May 2021	47	10.48	87.01	4.3	33.81	7.8	25.9	0.73
I7	04 May 2021	48	10.47	87.05	4.3	33.81	7.8	25.9	0.66
I7	04 May 2021	49	10.48	86.92	4.3	33.81	7.8	25.9	0.71
I7	04 May 2021	50	10.47	86.87	4.3	33.81	7.8	25.9	0.68
I7	04 May 2021	51	10.47	86.93	4.3	33.81	7.8	25.9	0.69
I8	04 May 2021	1	17.05	68.95	9.2	33.69	8.2	24.5	2.26
I8	04 May 2021	2	16.76	69.39	9.1	33.71	8.2	24.6	2.08
I8	04 May 2021	3	16.33	72.35	9.4	33.71	8.2	24.7	1.81
I8	04 May 2021	4	15.85	73.58	9.8	33.70	8.2	24.8	1.98
I8	04 May 2021	5	15.32	72.23	9.7	33.72	8.2	24.9	2.94
I8	04 May 2021	6	14.84	70.23	9.4	33.70	8.2	25.0	5.35
I8	04 May 2021	7	14.55	68.37	8.6	33.71	8.2	25.1	7.19
I8	04 May 2021	8	13.54	66.64	7.7	33.69	8.1	25.3	9.02
I8	04 May 2021	9	13.30	66.41	7.3	33.62	8.1	25.3	10.03
I8	04 May 2021	10	12.70	68.95	6.8	33.66	8.0	25.4	8.97
I8	04 May 2021	11	12.26	75.12	6.4	33.60	8.0	25.5	6.10
I8	04 May 2021	12	12.17	80.47	6.3	33.59	8.0	25.5	4.54

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I8	04 May 2021	13	12.07	82.30	6.1	33.60	8.0	25.5	4.08
I8	04 May 2021	14	11.86	83.45	5.9	33.61	7.9	25.5	2.88
I8	04 May 2021	15	11.71	84.39	5.8	33.61	7.9	25.6	2.42
I8	04 May 2021	16	11.76	84.77	5.7	33.62	7.9	25.6	2.28
I8	04 May 2021	17	11.65	85.02	5.6	33.63	7.9	25.6	2.32
I8	04 May 2021	18	11.63	84.89	5.6	33.63	7.9	25.6	2.11
I8	04 May 2021	19	11.60	84.84	5.6	33.64	7.9	25.6	2.20
I8	04 May 2021	20	11.61	84.96	5.6	33.64	7.9	25.6	2.09
I8	04 May 2021	21	11.55	84.97	5.5	33.69	7.9	25.7	2.12
I8	04 May 2021	22	11.36	85.12	5.3	33.71	7.9	25.7	2.13
I8	04 May 2021	23	11.25	85.64	5.2	33.71	7.9	25.7	1.98
I8	04 May 2021	24	11.10	85.83	5.0	33.72	7.9	25.8	1.74
I8	04 May 2021	25	11.06	86.08	5.0	33.71	7.8	25.8	1.56
I8	04 May 2021	26	11.03	86.33	5.0	33.71	7.8	25.8	1.57
I8	04 May 2021	27	11.02	86.48	5.0	33.71	7.8	25.8	1.66
I8	04 May 2021	28	11.00	86.37	4.9	33.72	7.8	25.8	1.45
I8	04 May 2021	29	10.95	86.18	4.8	33.72	7.8	25.8	1.43
I8	04 May 2021	30	10.93	84.81	4.7	33.73	7.8	25.8	1.40
I8	04 May 2021	31	10.93	83.90	4.7	33.73	7.8	25.8	1.37
I8	04 May 2021	32	10.92	83.45	4.7	33.73	7.8	25.8	1.38
I8	04 May 2021	33	10.92	82.99	4.7	33.73	7.8	25.8	1.44
I8	04 May 2021	34	10.92	82.23	4.6	33.73	7.8	25.8	1.58
I8	04 May 2021	35	10.92	81.44	4.6	33.73	7.8	25.8	1.67
I8	04 May 2021	36	10.93	81.20	4.6	33.73	7.8	25.8	1.52
I9	04 May 2021	1	17.36	76.92	8.8	33.68	8.2	24.4	1.17
I9	04 May 2021	2	17.27	77.14	8.7	33.69	8.2	24.4	1.28
I9	04 May 2021	3	16.93	78.35	8.6	33.69	8.2	24.5	1.17
I9	04 May 2021	4	16.58	79.59	8.4	33.67	8.2	24.6	1.12
I9	04 May 2021	5	16.14	79.17	8.4	33.69	8.2	24.7	1.30
I9	04 May 2021	6	15.28	76.35	8.6	33.68	8.2	24.9	1.92
I9	04 May 2021	7	14.47	70.62	8.7	33.68	8.2	25.1	3.15
I9	04 May 2021	8	14.04	67.50	8.3	33.65	8.2	25.1	5.11
I9	04 May 2021	9	13.02	65.15	7.5	33.67	8.1	25.4	6.46
I9	04 May 2021	10	12.47	75.78	7.0	33.55	8.0	25.4	4.77
I9	04 May 2021	11	12.61	81.64	7.0	33.58	8.0	25.4	4.29
I9	04 May 2021	12	12.15	82.22	6.6	33.58	8.0	25.5	3.95
I9	04 May 2021	13	11.88	82.73	6.2	33.60	8.0	25.5	3.22
I9	04 May 2021	14	11.83	82.86	6.1	33.61	8.0	25.5	3.21
I9	04 May 2021	15	11.79	83.39	6.1	33.64	7.9	25.6	2.98
I9	04 May 2021	16	11.58	84.11	5.8	33.65	7.9	25.6	2.49
I9	04 May 2021	17	11.56	84.23	5.7	33.67	7.9	25.6	2.61
I9	04 May 2021	18	11.53	84.73	5.6	33.67	7.9	25.6	2.29
I9	04 May 2021	19	11.39	84.80	5.4	33.68	7.9	25.7	2.12
I9	04 May 2021	20	11.27	85.18	5.2	33.68	7.9	25.7	1.93
I9	04 May 2021	21	11.20	84.81	5.0	33.69	7.9	25.7	1.76
I9	04 May 2021	22	11.20	84.06	5.0	33.69	7.8	25.7	1.69
I9	04 May 2021	23	11.19	83.71	5.0	33.69	7.8	25.7	1.67
I9	04 May 2021	24	11.19	83.33	5.0	33.69	7.8	25.7	1.79
I9	04 May 2021	25	11.19	83.09	4.9	33.69	7.8	25.7	1.84
I9	04 May 2021	26	11.19	82.67	4.9	33.69	7.8	25.7	1.64
I9	04 May 2021	27	11.19	81.67	4.9	33.69	7.8	25.7	1.54
I9	04 May 2021	28	11.19	80.70	4.9	33.70	7.8	25.7	1.68
I9	04 May 2021	29	11.19	80.30	4.9	33.69	7.8	25.7	1.63

NA = not available

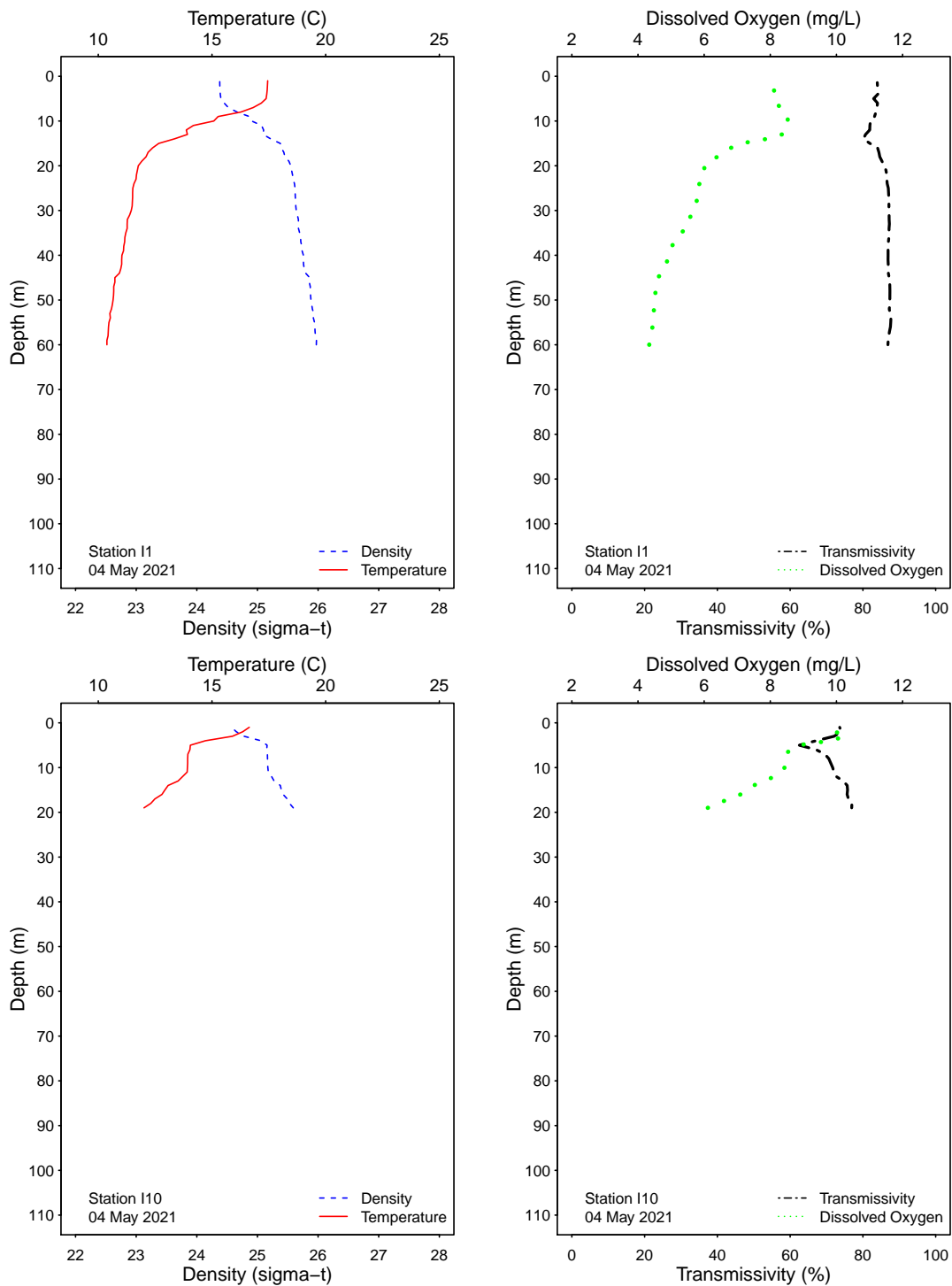


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

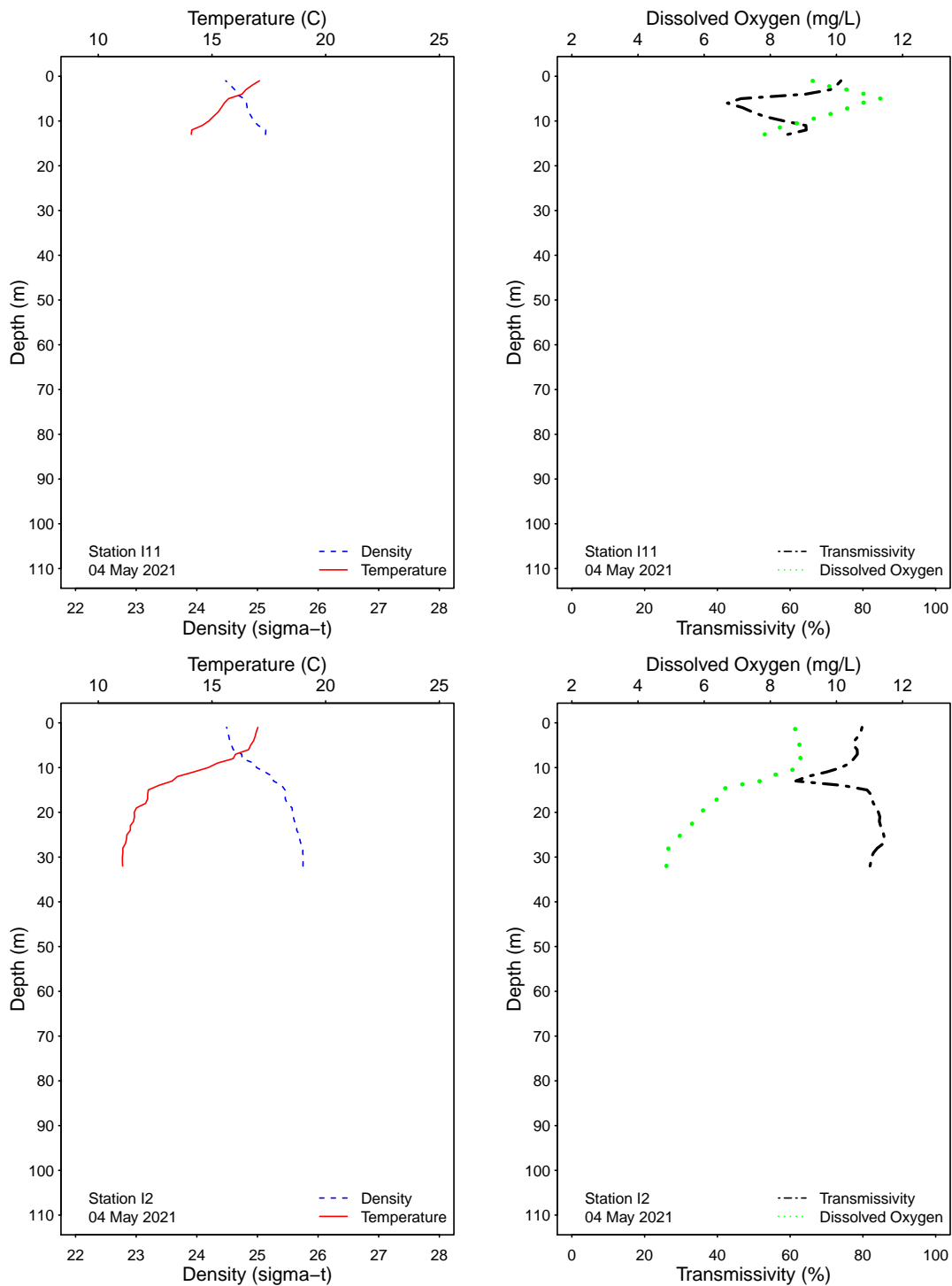


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

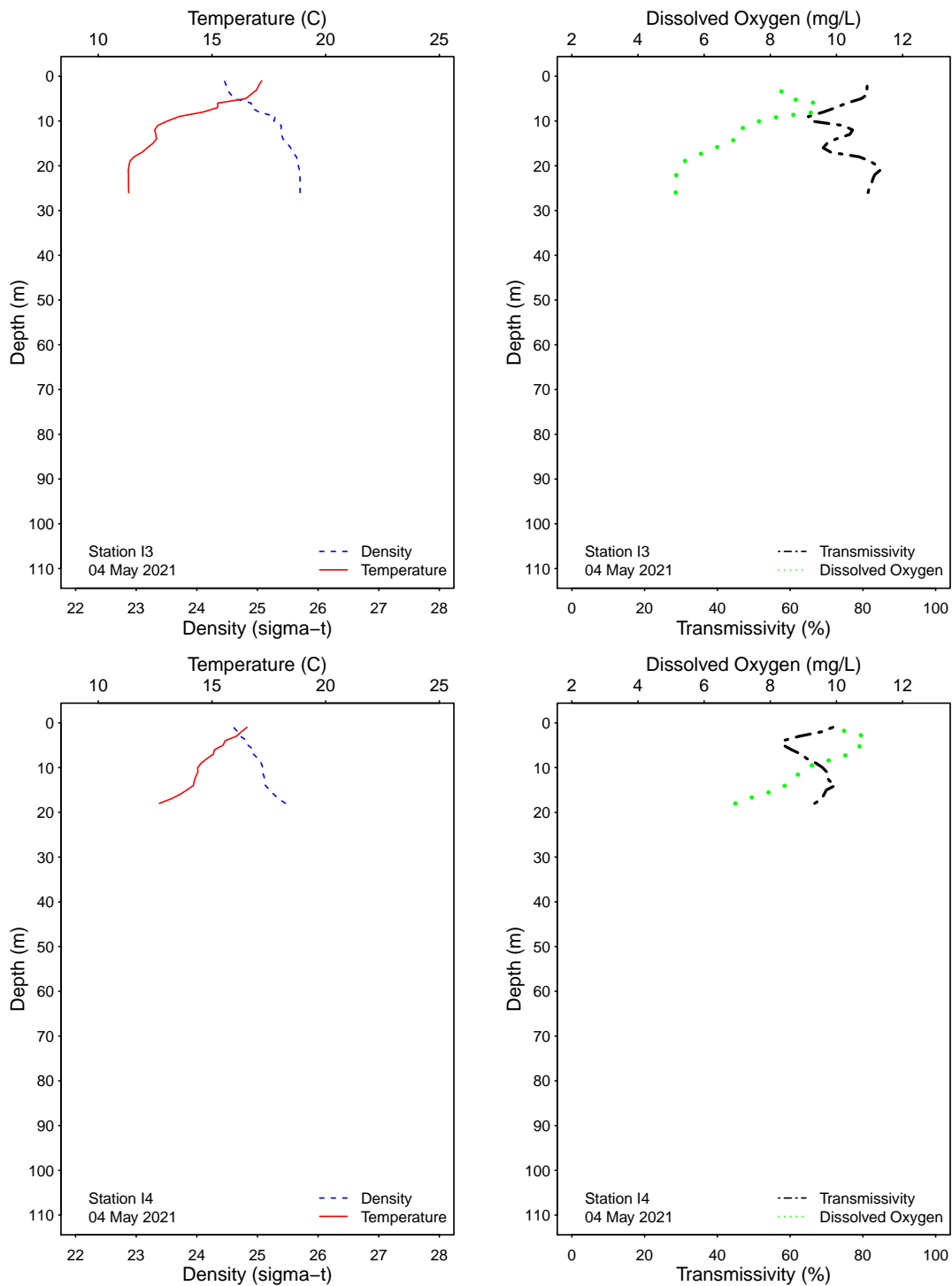


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

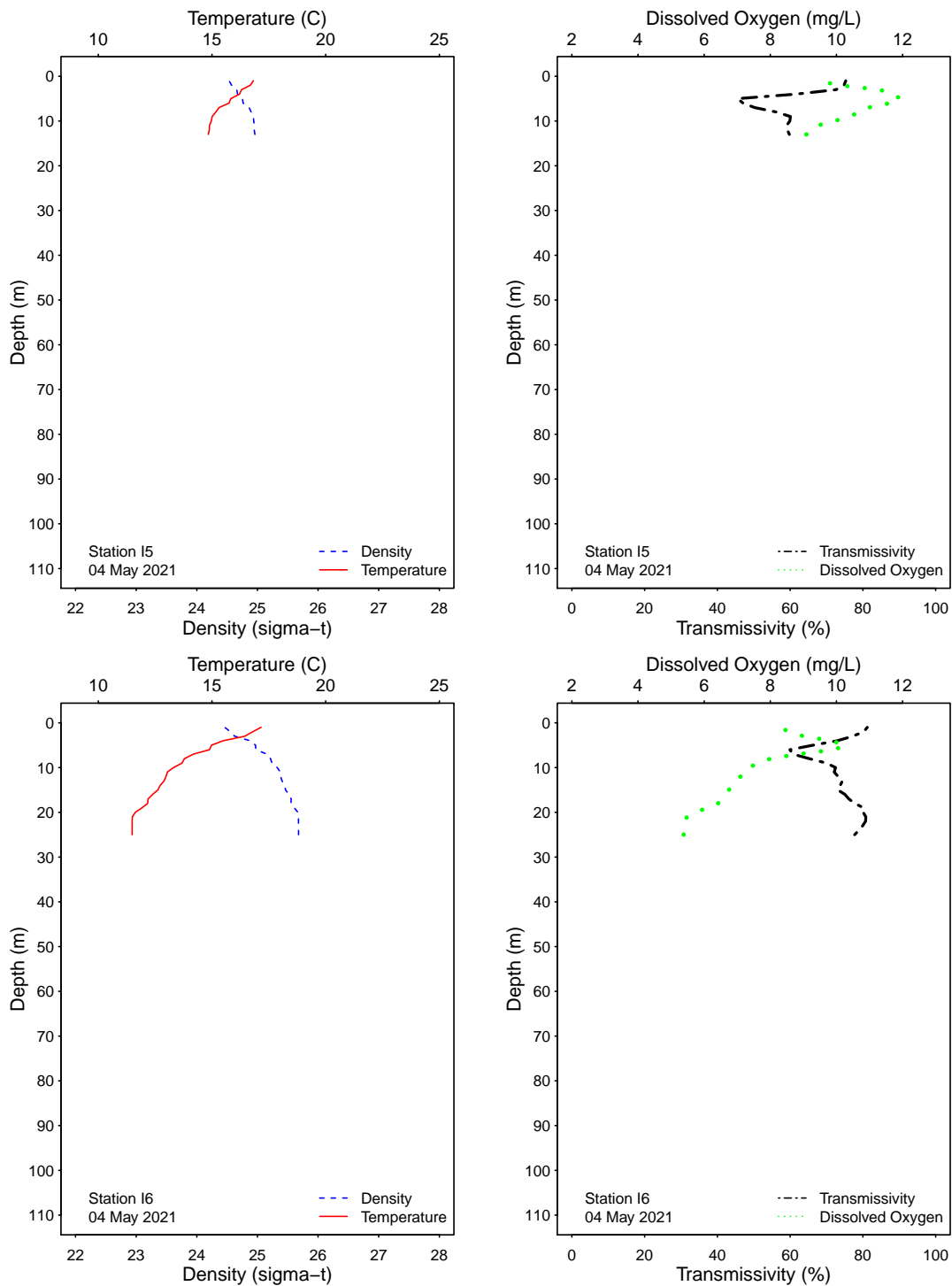


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

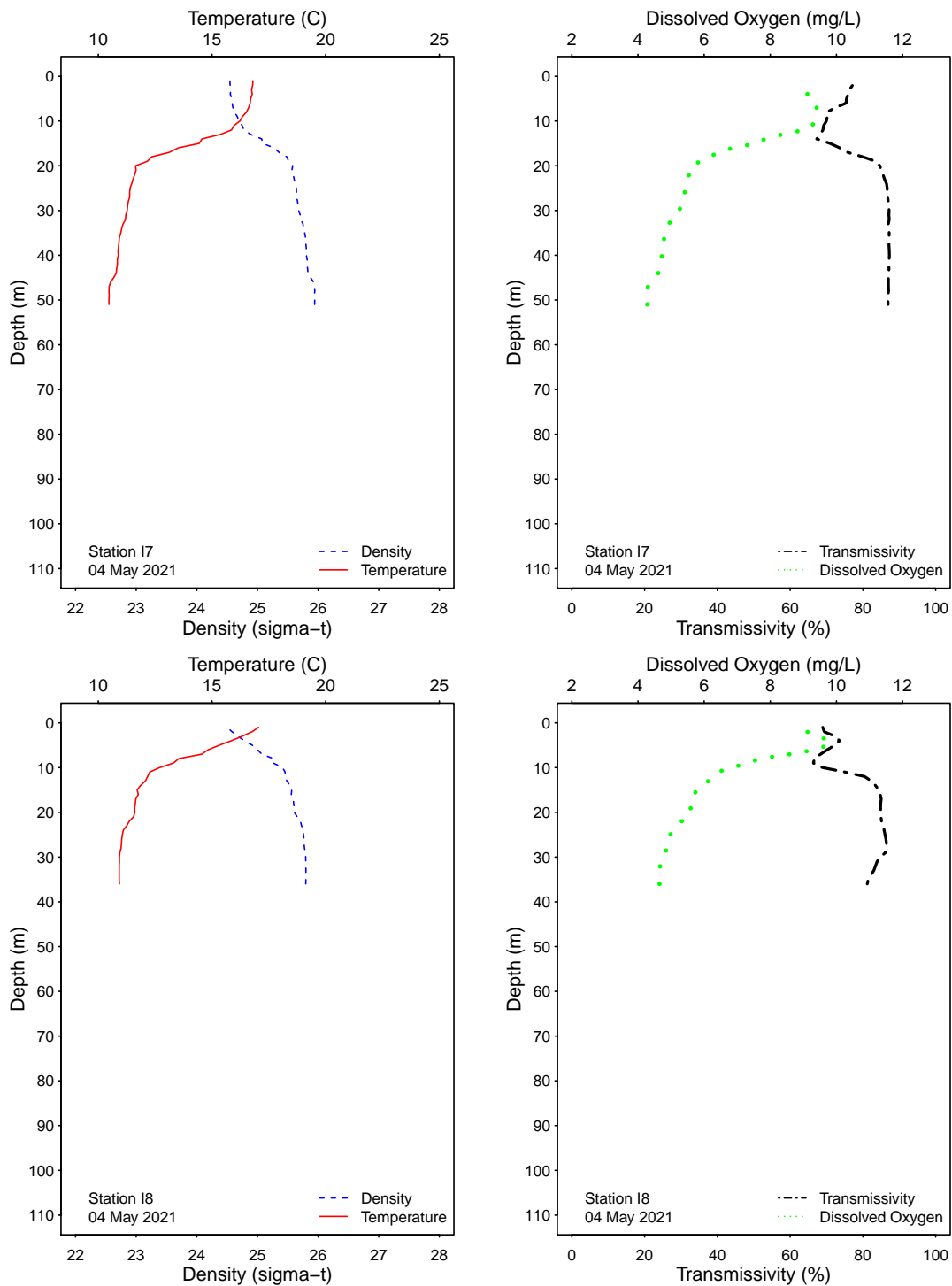


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

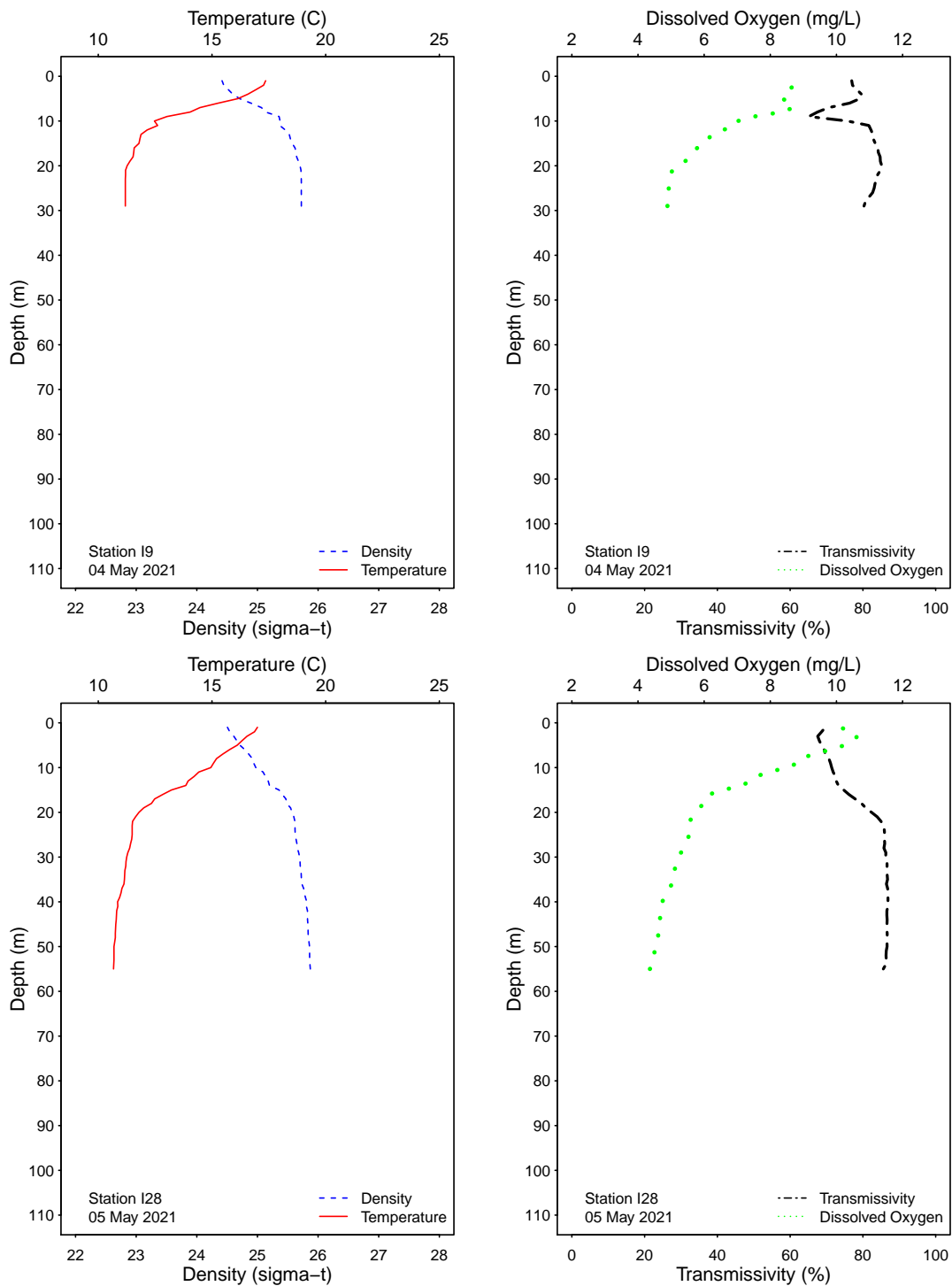


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

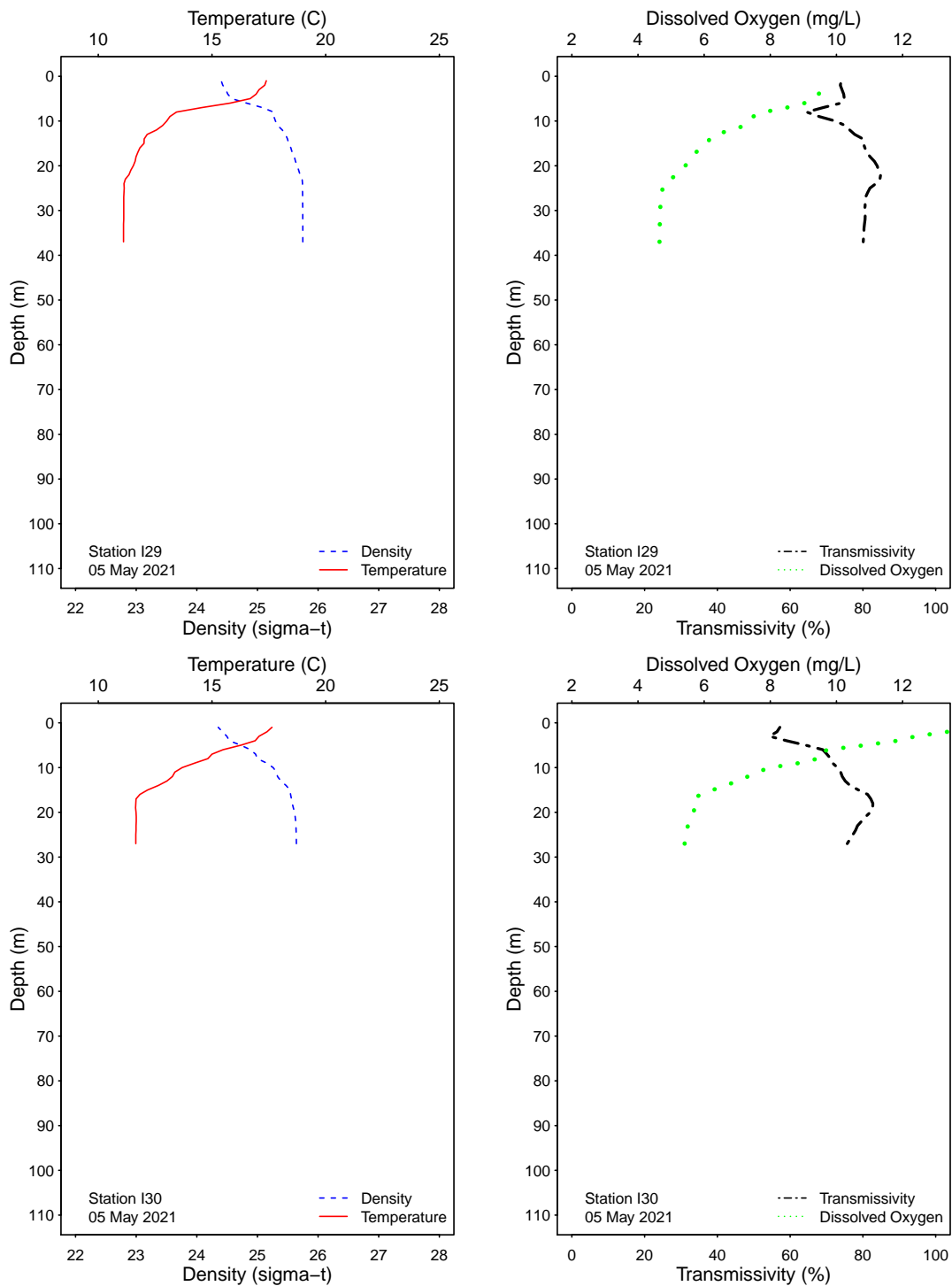


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

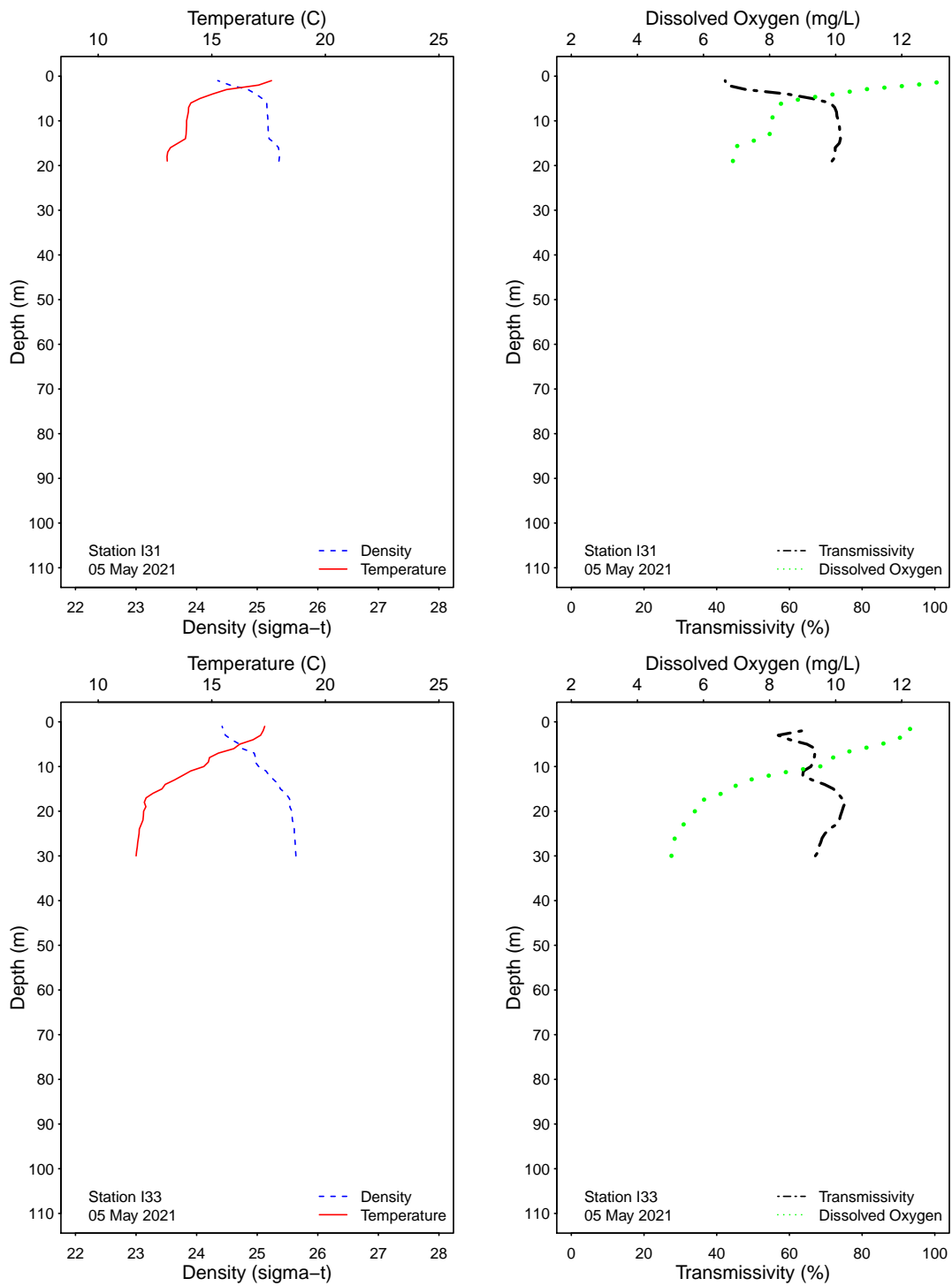


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

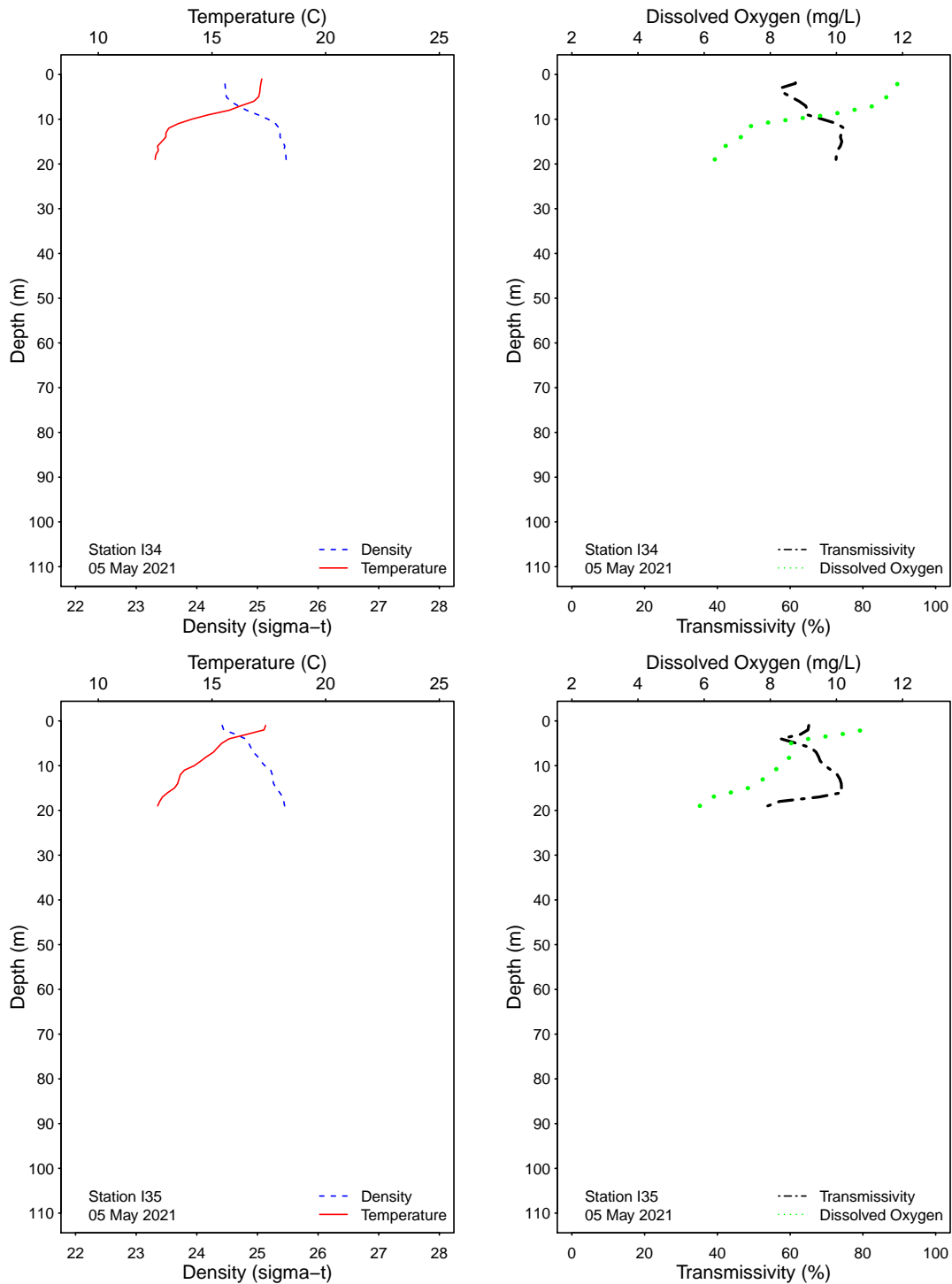


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

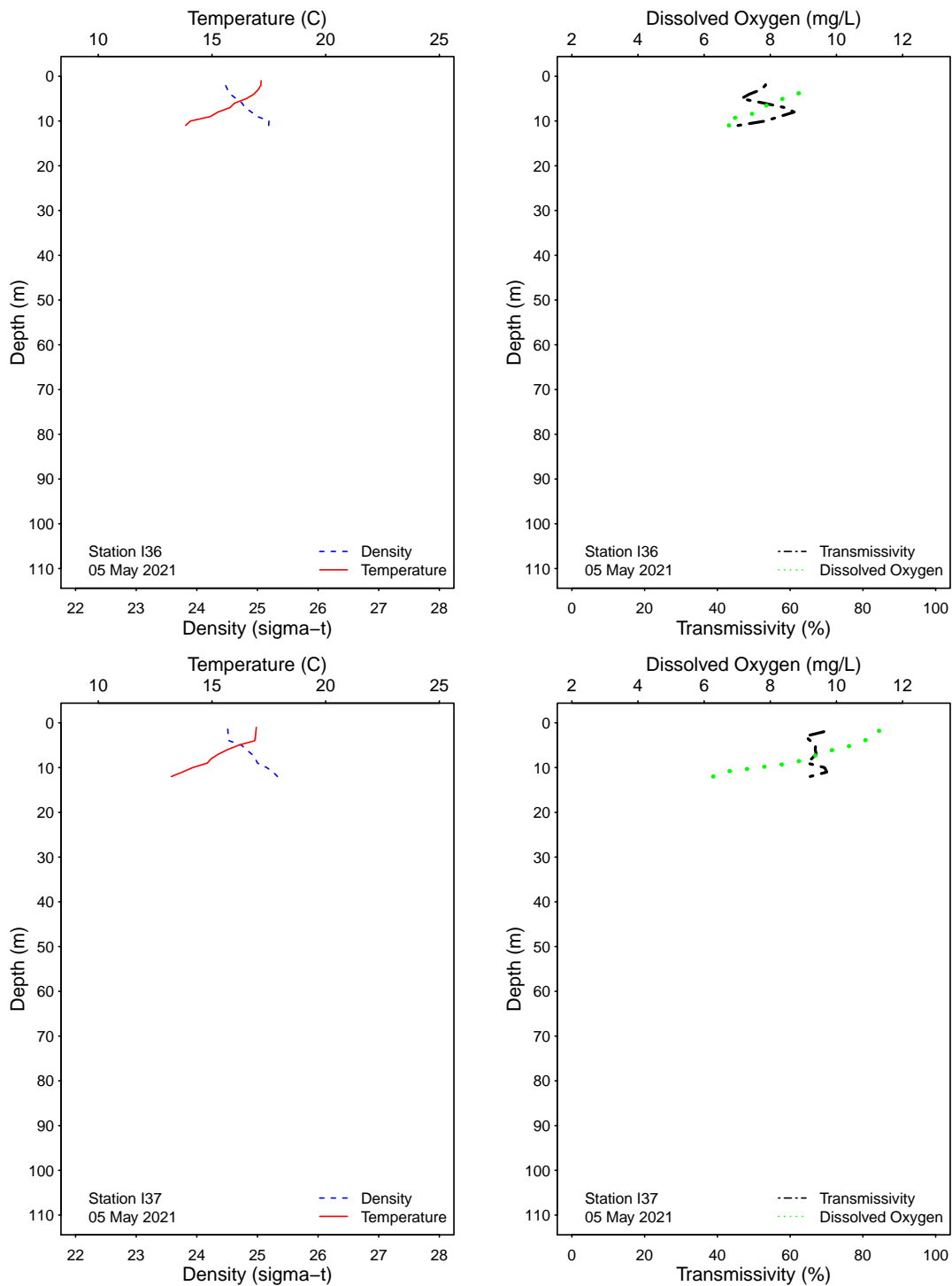


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

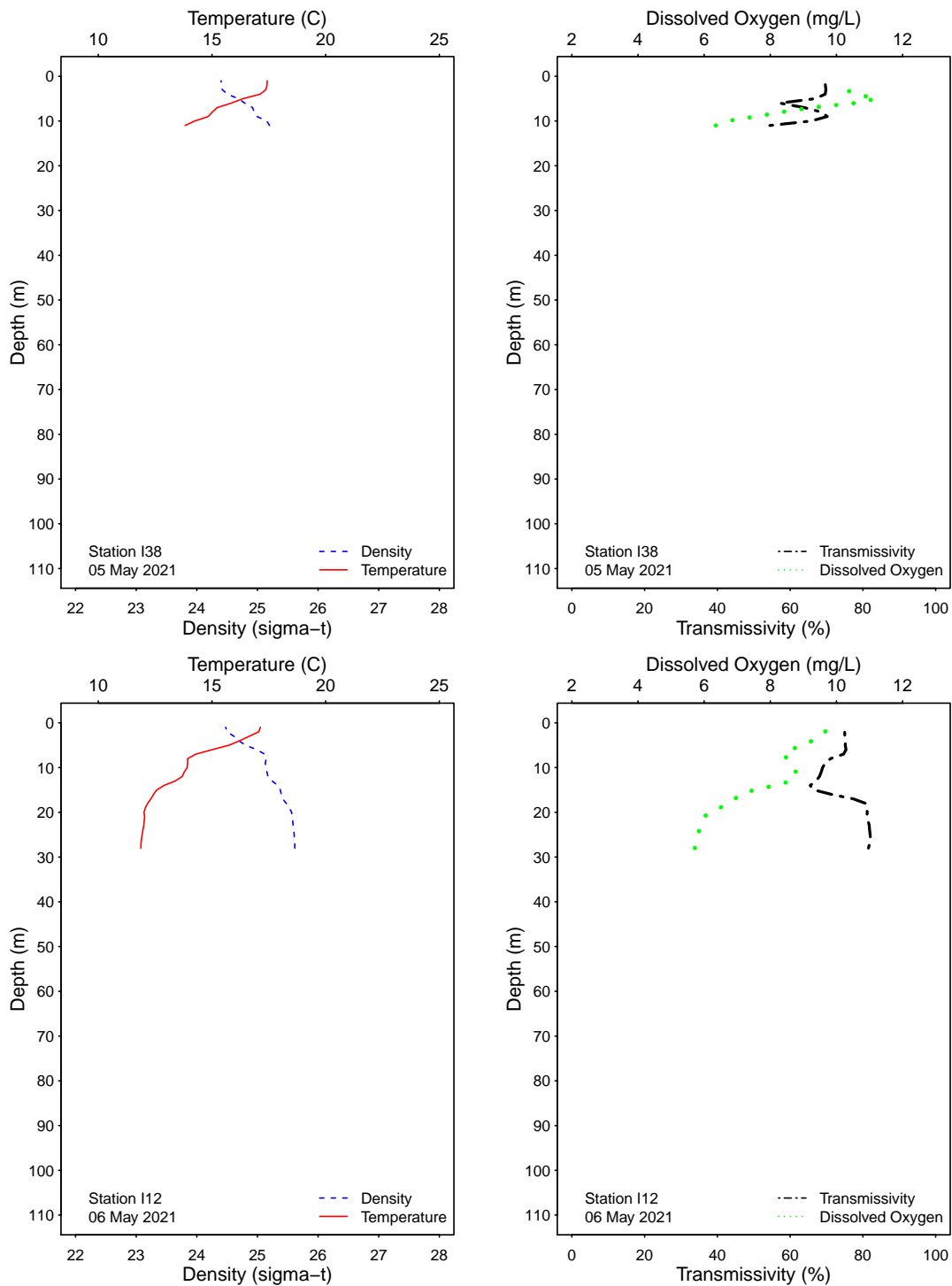


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

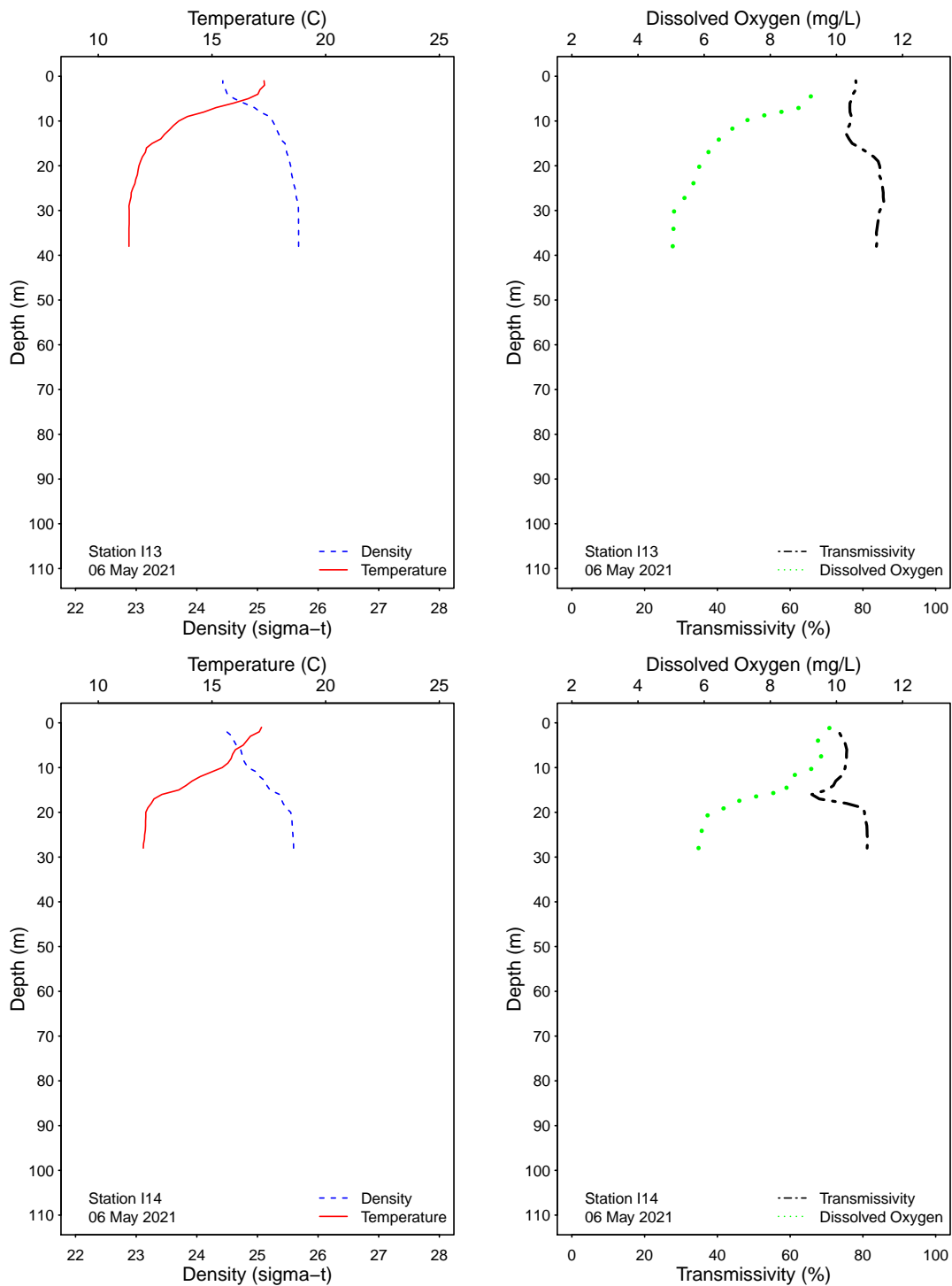


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

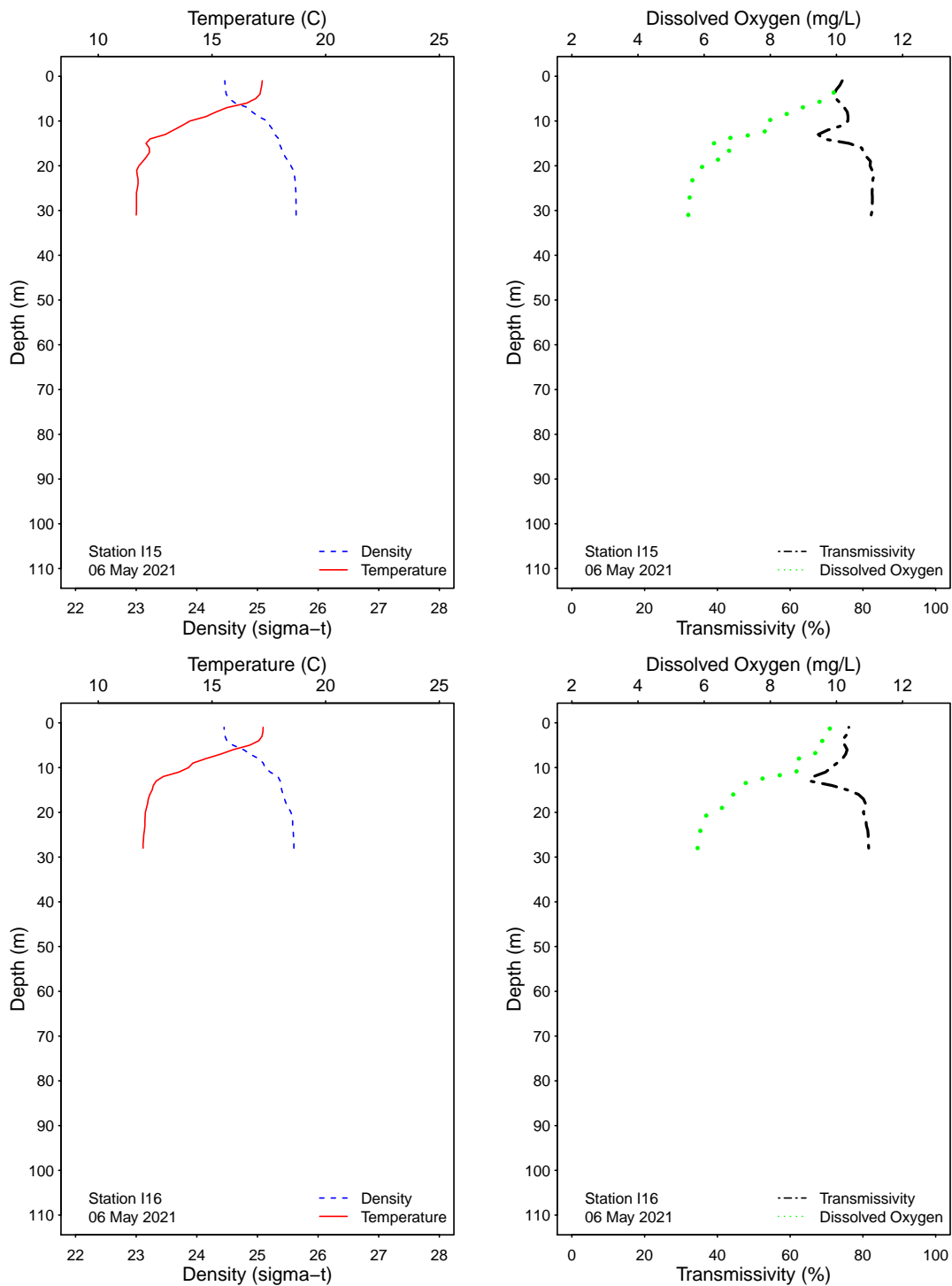


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

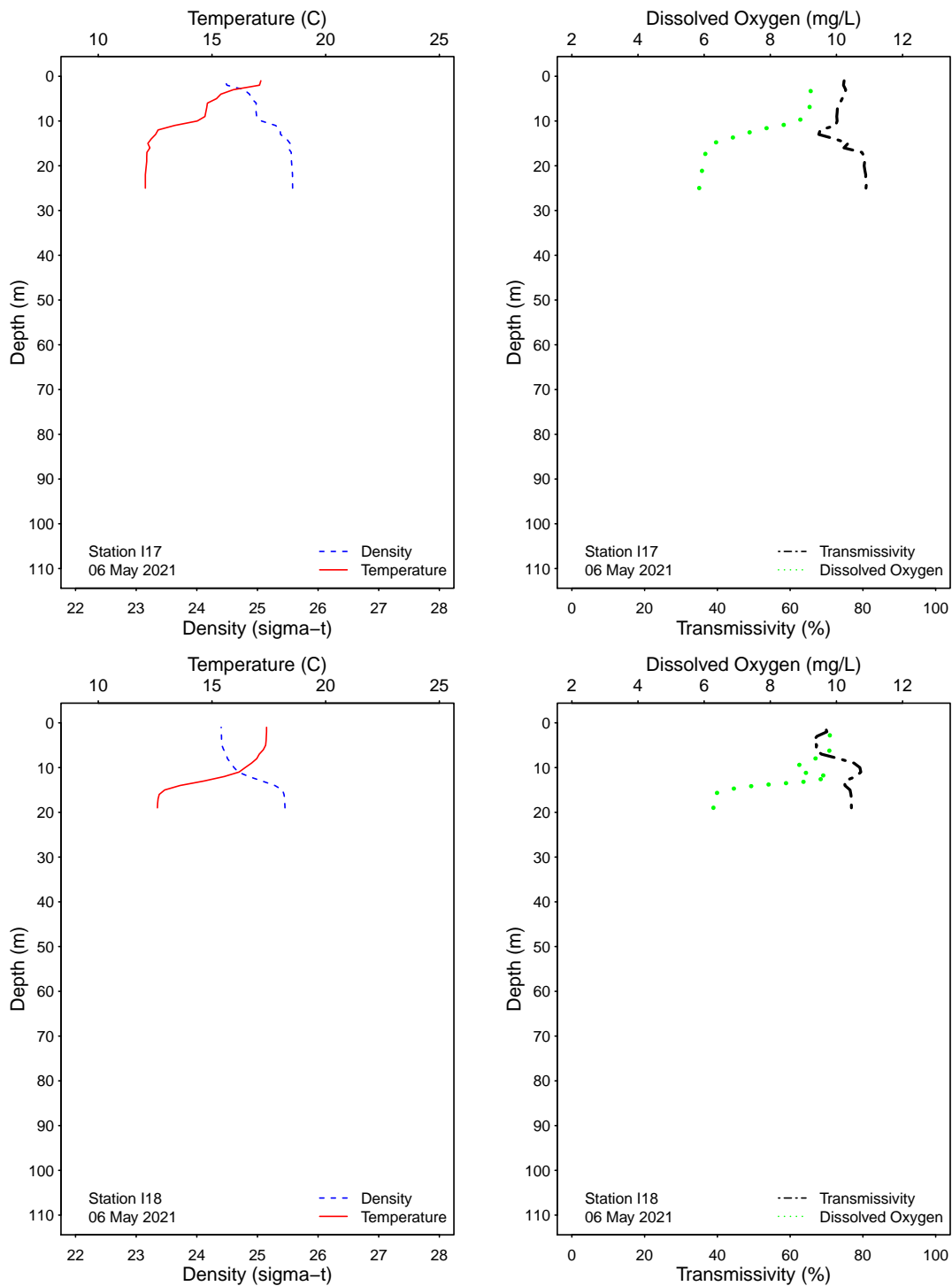


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

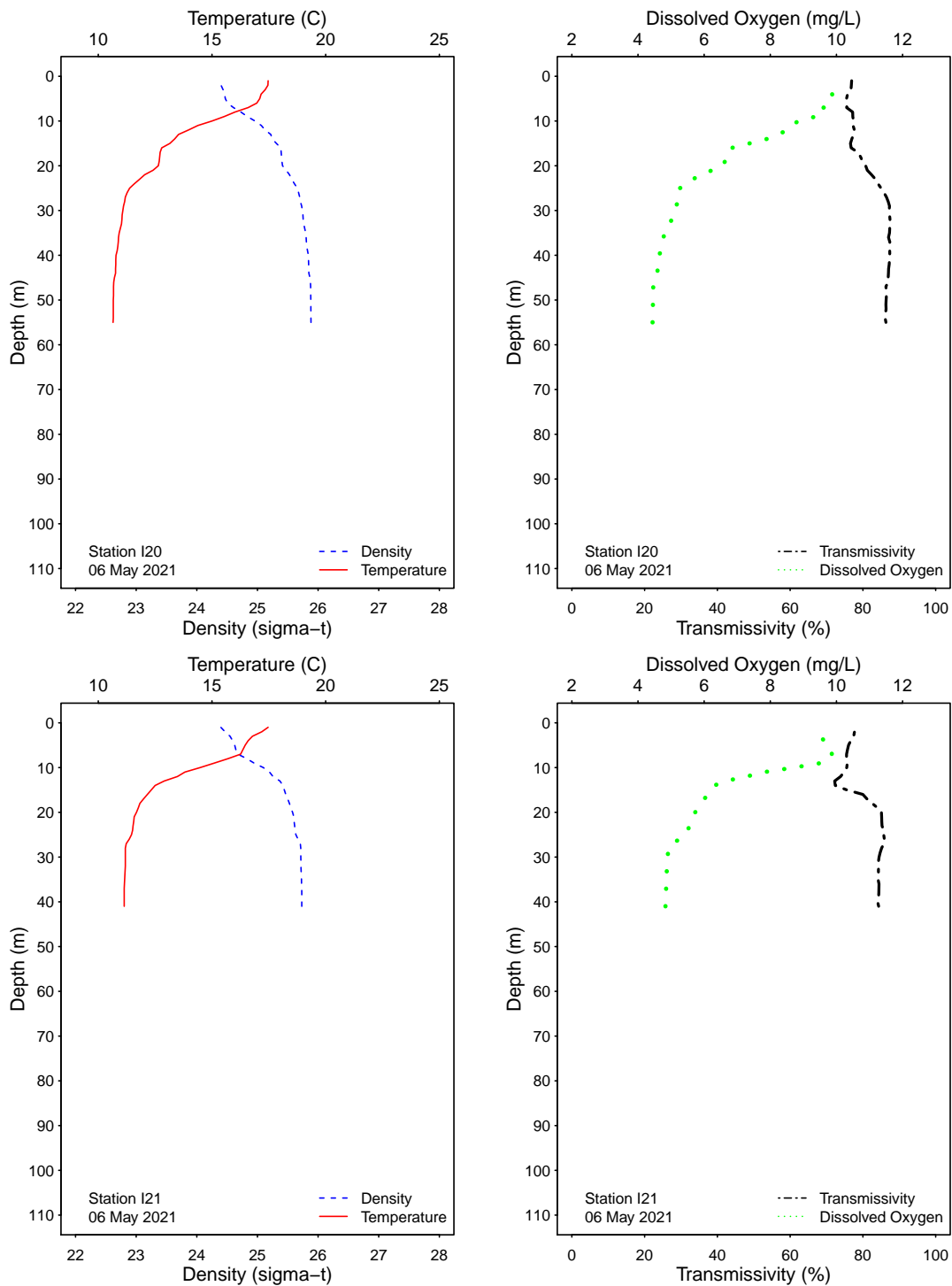


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

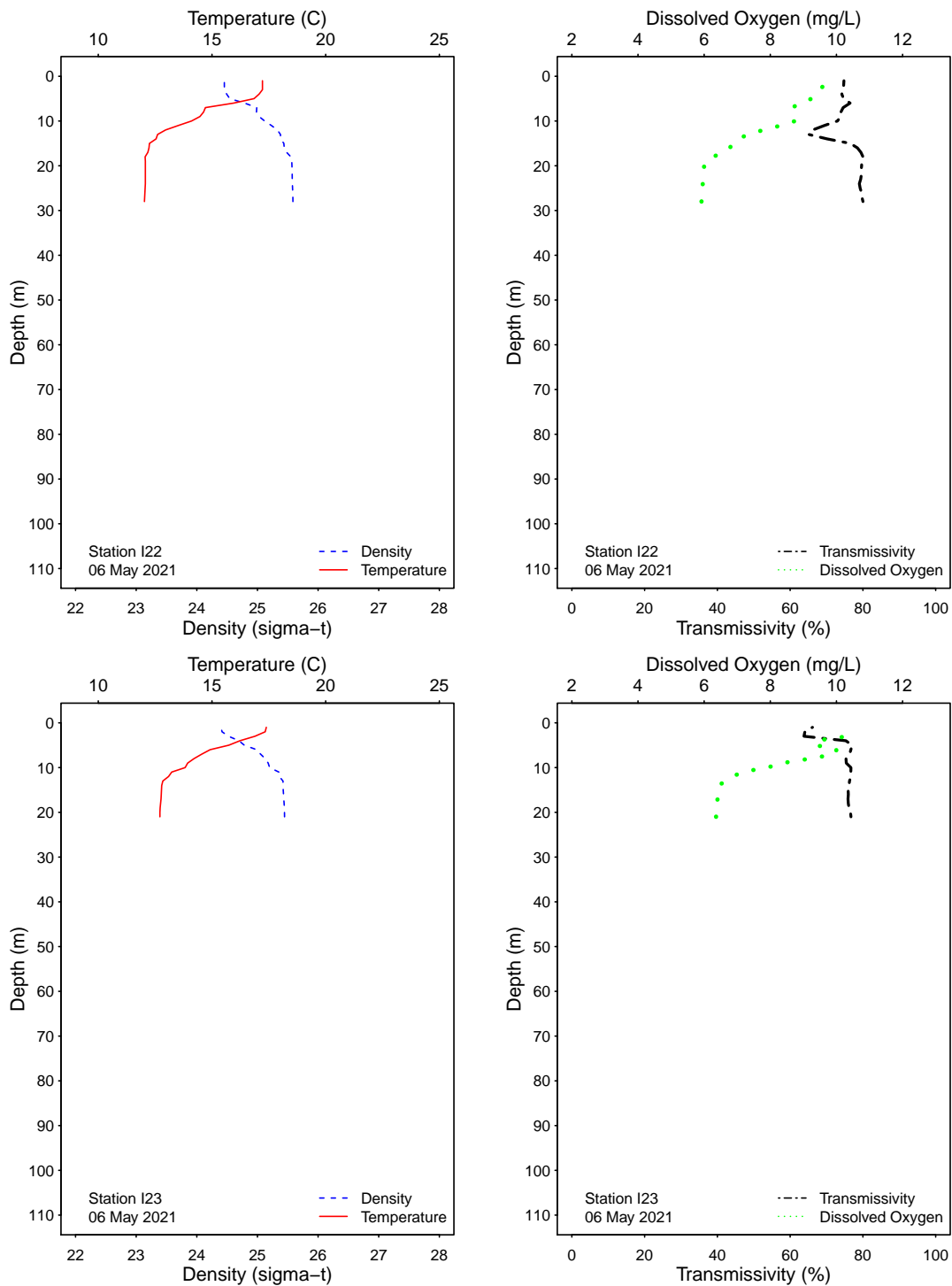


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

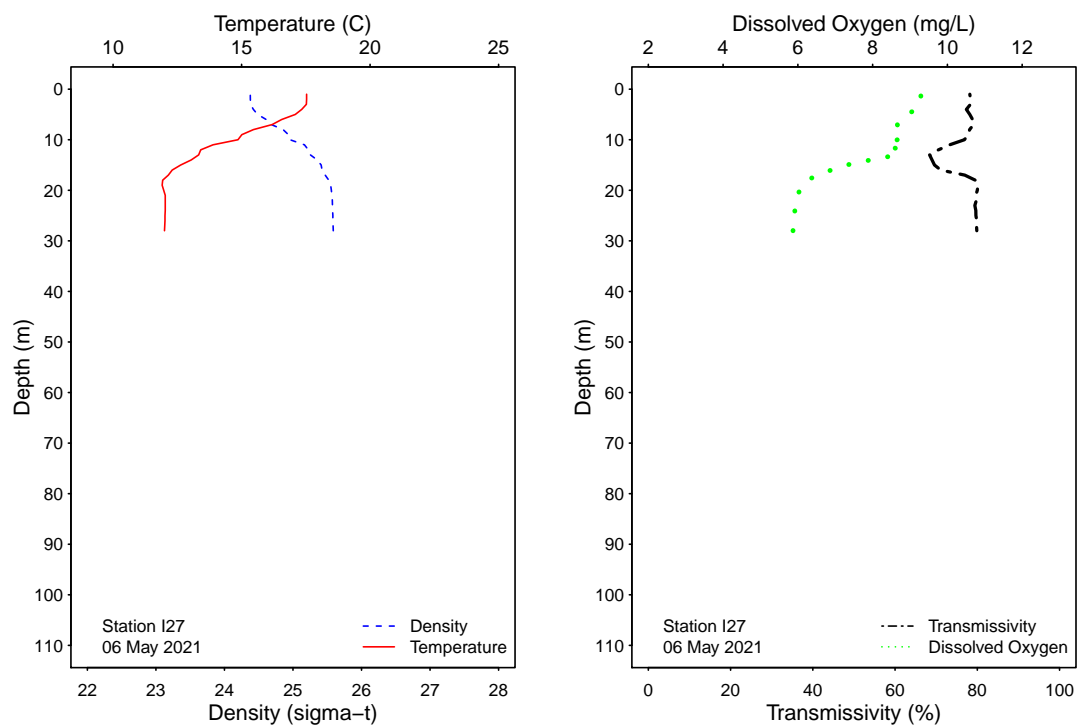


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

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APPENDIX A

Quality Assurance

Table A.1

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

Station	Date	Depth	Analyst	Procedure	Total	Fecal	Enter
I3	04 May 2021	18	JF	LAB DUPLICATE	<2	<2	<2
I8	04 May 2021	37	JF	LAB DUPLICATE	10e	6e	<2
I9	04 May 2021	27	JF	LAB DUPLICATE	<2	<2	<2
I12	06 May 2021	18	LMA	LAB DUPLICATE	<2	<2	<2
I13	06 May 2021	18	LMA	LAB DUPLICATE	<2	<2	<2
I16	06 May 2021	18	KA	LAB DUPLICATE	<2	<2	<2
I19	03 May 2021	6	BS	LAB DUPLICATE	2200e	300e	160e
I19	10 May 2021	6	AE	LAB DUPLICATE	40e	4e	6e
I19	18 May 2021	6	AE	LAB DUPLICATE	<20	<2	<2
I19	27 May 2021	6	JF	LAB DUPLICATE	16e	4e	<2
I30	05 May 2021	27	AR	LAB DUPLICATE	30e	2e	<20
I36	05 May 2021	11	AE	FIELD DUPLICATE	120e	4e	4e
I36	05 May 2021	11	AE	LAB DUPLICATE	20e	6e	2e
I40	03 May 2021	6	BS	LAB DUPLICATE	1200e	58	88
I40	10 May 2021	6	AE	LAB DUPLICATE	<2	<2	<2
I40	18 May 2021	6	AE	LAB DUPLICATE	<2	<2	<2
I40	27 May 2021	6	JF	LAB DUPLICATE	2e	<2	<2
S12	04 May 2021		BS	FIELD DUPLICATE	100e	10e	8e
S12	04 May 2021		BS	LAB DUPLICATE	80e	16e	8e
S12	11 May 2021		AE	FIELD DUPLICATE	2e	<2	<2
S12	11 May 2021		AE	LAB DUPLICATE	6e	2e	2e
S12	18 May 2021		JF	FIELD DUPLICATE	<20	6e	<2
S12	18 May 2021		JF	LAB DUPLICATE	<20	<2	<2
S12	25 May 2021		KA	FIELD DUPLICATE	60e	2e	4e
S12	25 May 2021		KA	LAB DUPLICATE	<20	2e	4e

ns = not sampled

ND = no data

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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 May 2021	57	3799	121	4	5	179	212	8
02 May 2021	57	3799	121	4	5	179	212	8
03 May 2021	39	3575	121	4	5	122	212	8
04 May 2021	29	2539	127	4	3	71	196	10
05 May 2021	29	2539	127	4	3	71	196	10
06 May 2021	27	2329	127	4	3	72	196	10
07 May 2021	27	2329	127	4	3	72	196	10
08 May 2021	27	2518	127	4	3	72	196	10
09 May 2021	27	2518	127	4	3	72	196	10
10 May 2021	27	2432	127	4	3	72	196	10
11 May 2021	20	1542	74	3	3	39	97	5
12 May 2021	20	1542	74	3	3	39	97	5
13 May 2021	14	1345	44	3	3	29	60	4
14 May 2021	16	1150	24	3	3	33	33	4
15 May 2021	16	1150	24	3	3	33	33	4
16 May 2021	16	960	12	3	3	33	16	4
17 May 2021	16	960	12	3	3	33	16	4
18 May 2021	9	577	14	3	5	16	13	4
19 May 2021	9	577	14	3	5	16	13	4
20 May 2021	7	448	14	3	5	15	13	4
21 May 2021	7	448	14	3	5	15	13	4
22 May 2021	7	459	14	3	5	15	13	4
23 May 2021	7	459	14	3	5	15	13	4
24 May 2021	7	332	14	3	5	15	13	4
25 May 2021	6	139	8	4	5	6	7	4
26 May 2021	6	139	8	4	5	6	7	4
27 May 2021	6	85	3	4	5	4	3	4
28 May 2021	6	85	3	4	5	4	3	4
29 May 2021	6	46	4	4	5	4	3	4
30 May 2021	6	46	4	4	5	4	3	4
31 May 2021	6	21	4	4	5	4	3	4

* 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
May	IC	IC	IC	IC	IC	IC	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 May 2021	13	7	7	2	2	2	24
02 May 2021	13	7	7	2	2	2	24
03 May 2021	19	10	10	3	4	4	28
04 May 2021	19	10	10	3	4	4	28
05 May 2021	18	14	13	4	4	4	36
06 May 2021	18	14	13	4	4	4	36
07 May 2021	18	14	13	4	4	4	36
08 May 2021	18	14	13	4	4	4	36
09 May 2021	18	14	13	4	4	4	36
10 May 2021	17	12	10	4	4	5	28
11 May 2021	17	12	10	4	4	5	28
12 May 2021	17	12	10	4	4	5	28
13 May 2021	18	14	8	4	3	5	14
14 May 2021	18	14	8	4	3	5	14
15 May 2021	18	14	8	4	3	5	14
16 May 2021	18	14	8	4	3	5	14
17 May 2021	18	14	8	4	3	5	14
18 May 2021	8	7	6	4	3	5	9
19 May 2021	8	7	6	4	3	5	9
20 May 2021	8	7	6	4	3	5	9
21 May 2021	8	7	6	4	3	5	9
22 May 2021	8	7	6	4	3	5	9
23 May 2021	8	7	6	4	3	5	9
24 May 2021	8	7	6	4	3	5	9
25 May 2021	8	7	6	4	3	5	9
26 May 2021	8	7	6	4	3	5	9
27 May 2021	6	5	4	4	3	5	5
28 May 2021	6	5	4	4	3	5	5
29 May 2021	6	5	4	4	3	5	5
30 May 2021	6	5	4	4	3	5	5
31 May 2021	6	5	4	4	3	5	5

* 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
May	E	E	E	E	E	E	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Offshore Stations

Table B.5

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

date	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
05 May 2021	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC
06 May 2021	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

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