

SOUTH BAY OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

SOUTH BAY WATER RECLAMATION PLANT

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

FEBRUARY 2020

Environmental Monitoring and Technical Services
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March 31, 2020

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

Attention: POTW Compliance Unit

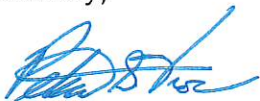
Dear Mr. Gibson:

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

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

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

Sincerely,



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

RK/rg

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

INTRODUCTION

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

MATERIALS AND METHODS

Shore Stations

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

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

Kelp Bed Stations

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

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

Seawater samples at the kelp bed stations are primarily collected using a CTD-integrated rosette sampler with Niskin bottles. Aliquots for bacteriological analyses were drawn from these bottles into sterile sample bottles for processing at the City's Marine Microbiology Laboratory. Water column profiles of the various physical/chemical parameters were taken using a CTD. The CTD collected these physical/chemical data at a rate ≥ 4 scans per second. The data were then internally

averaged using the CTD proprietary software, Seasoftware, 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 chromomorphogenic 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 2020 Quality Assurance Report, which will be completed in March 2021.

SUMMARY OF RESULTS

➤ Shoreline Water Quality Sampling

- Due to site access restrictions in Mexico, the South Bay shoreline sampling is typically carried out on the same day each week (i.e., Tuesday) to coordinate sampling between the Mexican and USA based stations. Seawater samples at the three shore stations located south of the USA/Mexico border (i.e., stations S0, S2 and S3) are presently collected by the Comisión Internacional de Límites y Aguas (CILA) and transported to the USIBWC for subsequent delivery to the City's Marine Microbiology Lab, while samples from the eight stations located in USA waters are sampled by City staff.
- During February, five of the eight shore stations located north of the border were out of compliance with California Ocean Plan (Ocean Plan) water contact standards on one or more days as follows:
 - The 30-day geometric mean standards for total coliform and fecal coliform were exceeded at stations S4, S5, and S10.
 - The 30-day geometric mean standard for *Enterococcus* was exceeded at stations S4, S5, S6, S10, and S11.
 - The single sample maximum (SSM) standard for total coliform was exceeded at stations S4, S5, S10, and S11.

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

- The SSM standards for fecal coliform and *Enterococcus* were exceeded at stations S4, S5, S6, S10 and S11.
- The SSM standard that states total coliform densities shall not exceed 1000 CFU/100 mL when the fecal:total ratio exceeds 0.1 was exceeded at stations S4, S5, S6, S10, and S11.
- Per permit requirements, resamples were collected in response to these SSM exceedances (see Table 2.8 for details).
- Although the Ocean Plan standards do not apply to these stations, bacteria densities exceeded one or more benchmark levels (i.e., total coliforms >10,000 CFU/100mL; fecal coliforms >400 CFU/100 mL; *Enterococcus* >104 CFU/100 mL; total >1000 CFU/100 mL & F:T ratio >0.1) in the seawater samples collected stations S0, S2, and S3 on one or more days during February.
- Notable observations included a sewage-like odor at stations S4 – S6, S10, S11, and S12 on one or more days during February.
- 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 February 5, 10, 18, and 25.
- Five of seven kelp bed stations were out of compliance with various Ocean Plan water contact standards on one or more days as follows:
 - The 30-day geometric mean standards for total and fecal coliform were exceeded at station I19.
 - The 30-day geometric mean standard for *Enterococcus* was exceeded at stations I19, I24, I26, and I40.
 - The SSM standard for total coliform was exceeded at I19.
 - The SSM standard for fecal coliform was exceeded at stations I19, I24, I26, I32, and I40.
 - The SSM standard for *Enterococcus* was exceeded at stations I19, I26, I32, 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, I26, I32, and I40.
- Water column temperatures ranged from 13.51 to 15.55°C. The difference between surface and bottom waters ranged from 0.07 to 1.82°C.
- Concentrations of chlorophyll *a* ranged from 0.62 to 4.39 µg/L at the kelp bed stations.
- Notable observations included a sewage-like odor at station I40 during February.

➤ **Offshore Water Quality Sampling**

- Quarterly offshore water quality sampling was conducted over three days during the month (i.e., February 12, 13, 14).
- During February, all offshore stations were in compliance with the relevant Ocean Plan single sample maximum standards, including those located within State jurisdictional waters (i.e., I12, I14, I16, I18, I22, I23, I33, I36–I38).
- Water column temperatures ranged from 12.44 to 15.48°C at the offshore sites. The difference between surface and bottom waters ranged from 0.22 to 2.69°C.
- Chlorophyll *a* concentrations ranged from 0.23 to 3.04 µg/L at the offshore sites.
- CDOM data are available upon request.
- Nothing of sewage origin was observed at any of the offshore stations.

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TABLES AND FIGURES

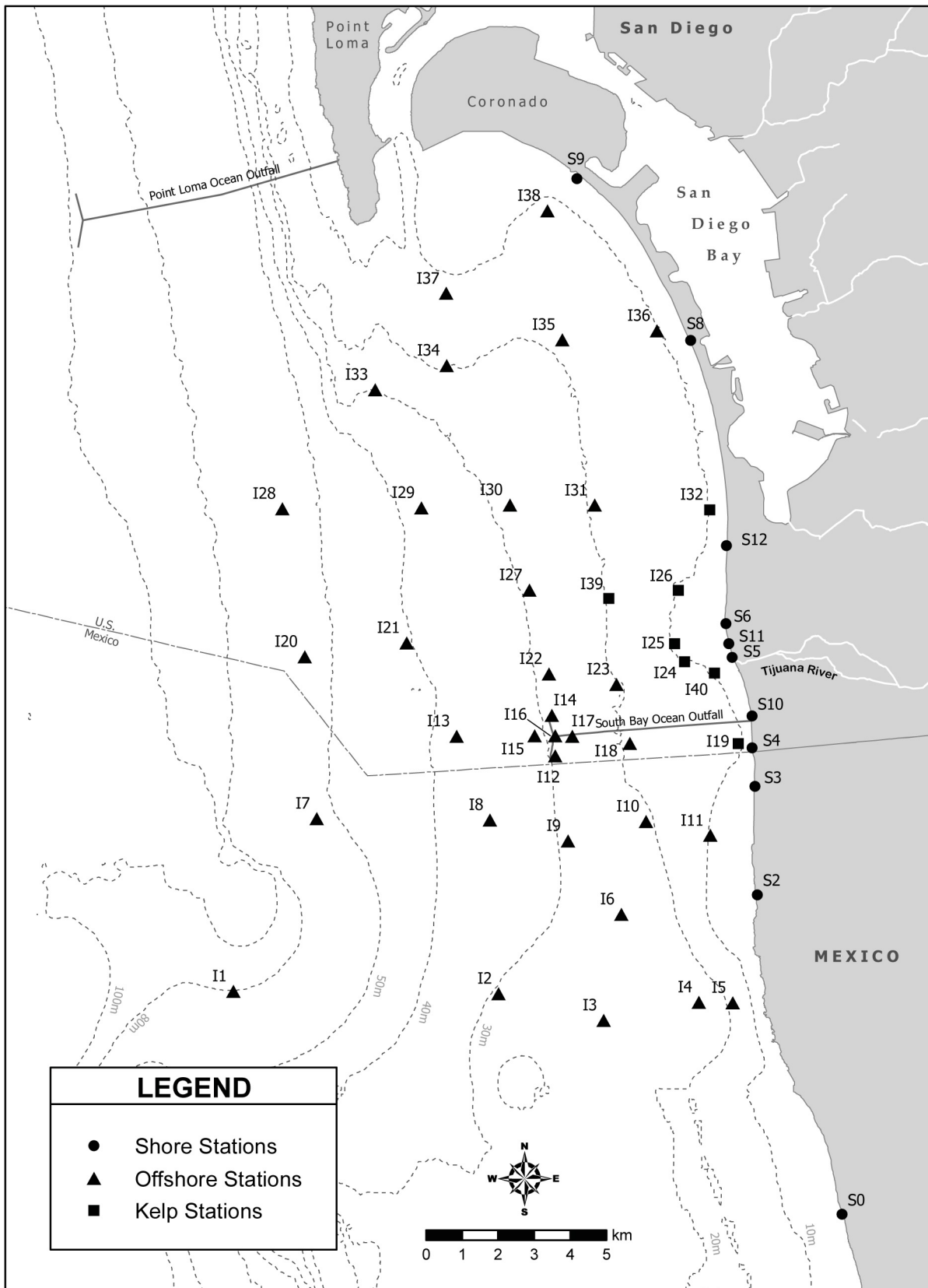


Figure 1.1 Station Map

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 Feb 2020	4495	2149	29	6*	6*	3693	22	4*
02 Feb 2020	4495	1720	29	6*	6*	3693	22	4*
03 Feb 2020	4495	1720	29	6*	6*	3693	22	4*
04 Feb 2020	4997	1057	27	8	8	4173	26	3
05 Feb 2020	5041	1057	27	8	8	4627	26	3
06 Feb 2020	4882	1735	29	11*	11*	4855	34	4*
07 Feb 2020	4459	1735	29	11*	11*	4360	34	4*
08 Feb 2020	4463	1735	29	11*	11*	4223	34	4*
09 Feb 2020	4784	1735	29	11*	11*	4655	34	4*
10 Feb 2020	4499	1735	29	11*	11*	4628	34	4*
11 Feb 2020	4769	2170	50	12	8	5010	88	4
12 Feb 2020	4706	2650	50	12	8	4298	79	4
13 Feb 2020	4235	3235	72	19*	11*	3975	146	4*
14 Feb 2020	4235	3796	72	19*	11*	3975	146	4*
15 Feb 2020	3708	3796	72	19*	11*	3502	146	4*
16 Feb 2020	3708	4327	72	19*	11*	3502	146	4*
17 Feb 2020	3152	4327	72	19*	11*	3008	146	4*
18 Feb 2020	3468	4825	144	12	10	3502	262	4
19 Feb 2020	3581	4825	144	12	10	3008	262	4
20 Feb 2020	2970	4825	43	11*	8*	2047	92	4*
21 Feb 2020	2970	3713	43	11*	8*	2047	92	4*
22 Feb 2020	3027	3287	79	11*	8*	2193	175	4*
23 Feb 2020	3027	3287	79	11*	8*	2193	175	4*
24 Feb 2020	3027	3244	79	11*	8*	2193	175	4*
25 Feb 2020	3596	2688	51	8	6	2351	92	4
26 Feb 2020	3596	2941	51	8	6	2351	92	4
27 Feb 2020	7604	2483	62	6*	5*	5175	119	3*
28 Feb 2020	6134	2483	62	6*	5*	5276	119	3*
29 Feb 2020	6134	3755	62	6*	5*	5276	119	3*

* Geometric mean calculated using n<5

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Shore Stations

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 Feb 2020	1003	748	12	2*	4*	678	7	2*
02 Feb 2020	1003	549	12	2*	4*	678	7	2*
03 Feb 2020	1003	549	12	2*	4*	678	7	2*
04 Feb 2020	1233	349	9	2	4	861	6	2
05 Feb 2020	1339	349	9	2	4	1054	6	2
06 Feb 2020	1398	609	12	2*	4*	1068	7	2*
07 Feb 2020	1242	609	12	2*	4*	998	7	2*
08 Feb 2020	1230	609	12	2*	4*	999	7	2*
09 Feb 2020	1286	609	12	2*	4*	1120	7	2*
10 Feb 2020	1192	609	12	2*	4*	1190	7	2*
11 Feb 2020	1156	644	16	2	4	1191	16	2
12 Feb 2020	998	862	16	2	4	1067	20	2
13 Feb 2020	906	1273	18	2*	4*	1013	29	2*
14 Feb 2020	906	1593	18	2*	4*	1013	29	2*
15 Feb 2020	716	1593	18	2*	4*	809	29	2*
16 Feb 2020	716	1914	18	2*	4*	809	29	2*
17 Feb 2020	592	1914	18	2*	4*	618	29	2*
18 Feb 2020	571	2230	37	2	4	778	53	2
19 Feb 2020	592	2230	37	2	4	708	53	2
20 Feb 2020	453	2284	12	2*	2*	499	21	2*
21 Feb 2020	453	1731	12	2*	2*	499	21	2*
22 Feb 2020	502	1473	14	2*	2*	743	30	2*
23 Feb 2020	502	1473	14	2*	2*	743	30	2*
24 Feb 2020	502	1501	14	2*	2*	743	30	2*
25 Feb 2020	591	1003	10	2	2	791	21	2
26 Feb 2020	591	1162	10	2	2	791	21	2
27 Feb 2020	1234	949	14	2*	2*	1835	30	2*
28 Feb 2020	1091	949	14	2*	2*	1813	30	2*
29 Feb 2020	1091	1494	14	2*	2*	1813	30	2*

* 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 Feb 2020	392	690	42	2*	2*	446	34	2*
02 Feb 2020	392	503	29	2*	2*	446	24	2*
03 Feb 2020	392	503	29	2*	2*	446	24	2*
04 Feb 2020	497	298	17	2	2	587	17	3
05 Feb 2020	573	432	17	2	2	741	17	3
06 Feb 2020	586	569	18	2*	2*	803	20	3*
07 Feb 2020	552	672	18	2*	2*	702	20	3*
08 Feb 2020	556	672	18	2*	2*	720	20	3*
09 Feb 2020	636	851	18	2*	2*	818	20	3*
10 Feb 2020	616	851	18	2*	2*	906	20	3*
11 Feb 2020	616	897	23	3	2	937	35	3
12 Feb 2020	557	1095	23	3	2	899	32	3
13 Feb 2020	575	1407	32	3*	2*	996	33	3*
14 Feb 2020	575	1659	32	3*	2*	996	33	3*
15 Feb 2020	493	1659	32	3*	2*	795	33	3*
16 Feb 2020	493	1911	32	3*	2*	795	33	3*
17 Feb 2020	430	1911	32	3*	2*	606	33	3*
18 Feb 2020	456	2160	51	3	2	744	47	3
19 Feb 2020	492	2160	51	3	2	715	47	3
20 Feb 2020	403	2369	21	3*	2*	542	23	3*
21 Feb 2020	333	1966	21	3*	2*	433	23	3*
22 Feb 2020	355	1743	21	3*	2*	502	29	3*
23 Feb 2020	355	1768	21	3*	2*	502	29	3*
24 Feb 2020	351	1974	21	3*	2*	502	29	3*
25 Feb 2020	340	1461	14	3	2	440	22	3
26 Feb 2020	322	1757	14	3	2	440	22	3
27 Feb 2020	566	1691	14	3*	2*	728	29	3*
28 Feb 2020	527	1691	14	3*	2*	768	29	3*
29 Feb 2020	527	2331	14	3*	2*	768	29	3*

* Geometric mean calculated using n<5

Table 2.4

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
04 Feb 2020	E	IC	IC	IC	IC	E	IC	IC
05 Feb 2020	IC	ns	ns	ns	ns	E	ns	ns
07 Feb 2020	IC	ns	ns	ns	ns	IC	ns	ns
09 Feb 2020	E	ns	ns	ns	ns	E	ns	ns
11 Feb 2020	IC	E	IC	IC	IC	E	E	IC
12 Feb 2020	ns	E	ns	ns	ns	IC	IC	ns
14 Feb 2020	ns	E	ns	ns	ns	ns	ns	ns
16 Feb 2020	ns	E	ns	ns	ns	ns	ns	ns
18 Feb 2020	IC	E	IC	IC	IC	E	IC	IC
20 Feb 2020	ns	E	IC	ns	ns	IC	IC	ns
21 Feb 2020	ns	IC	ns	ns	ns	ns	ns	ns
25 Feb 2020	E	IC	IC	IC	IC	IC	IC	IC
27 Feb 2020	IC	ns	ns	ns	ns	E	ns	ns
28 Feb 2020	IC	ns	ns	ns	ns	IC	ns	ns

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 Feb 2020	E	IC	IC	IC	IC	E	IC	IC
05 Feb 2020	E	ns	ns	ns	ns	E	ns	ns
07 Feb 2020	IC	ns	ns	ns	ns	E	ns	ns
09 Feb 2020	E	ns	ns	ns	ns	E	ns	ns
11 Feb 2020	E	E	IC	IC	IC	E	E	IC
12 Feb 2020	IC	E	ns	ns	ns	IC	IC	ns
14 Feb 2020	ns	E	ns	ns	ns	ns	ns	ns
16 Feb 2020	ns	E	ns	ns	ns	ns	ns	ns
18 Feb 2020	IC	E	E	IC	IC	E	E	IC
20 Feb 2020	ns	E	IC	ns	ns	IC	IC	ns
21 Feb 2020	ns	IC	ns	ns	ns	ns	ns	ns
25 Feb 2020	E	IC	IC	IC	IC	E	IC	IC
27 Feb 2020	E	ns	ns	ns	ns	E	ns	ns
28 Feb 2020	IC	ns	ns	ns	ns	E	ns	ns

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 Feb 2020	E	E	IC	IC	IC	E	IC	IC
05 Feb 2020	E	E	ns	ns	ns	E	ns	ns
07 Feb 2020	E	E	ns	ns	ns	E	ns	ns
09 Feb 2020	E	E	ns	ns	ns	E	ns	ns
11 Feb 2020	E	E	IC	IC	IC	E	E	IC
12 Feb 2020	IC	E	ns	ns	ns	IC	IC	ns
14 Feb 2020	ns	E	ns	ns	ns	ns	ns	ns
16 Feb 2020	ns	E	ns	ns	ns	ns	ns	ns
18 Feb 2020	E	E	E	IC	IC	E	E	IC
20 Feb 2020	E	E	IC	ns	ns	E	IC	ns
21 Feb 2020	IC	E	ns	ns	ns	IC	ns	ns
23 Feb 2020	ns	E	ns	ns	ns	ns	ns	ns
25 Feb 2020	E	IC	IC	IC	IC	E	IC	IC
27 Feb 2020	E	ns	ns	ns	ns	E	ns	ns
28 Feb 2020	E	ns	ns	ns	ns	E	ns	ns

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 Feb 2020	E	IC	IC	IC	IC	E	IC	IC
05 Feb 2020	E	ns	ns	ns	ns	E	ns	ns
07 Feb 2020	E	ns	ns	ns	ns	E	ns	ns
09 Feb 2020	E	ns	ns	ns	ns	E	ns	ns
11 Feb 2020	IC	IC	IC	IC	IC	IC	IC	IC
12 Feb 2020	ND	E	ns	ns	ns	IC	IC	ns
14 Feb 2020	ns	E	ns	ns	ns	ns	ns	ns
16 Feb 2020	ns	E	ns	ns	ns	ns	ns	ns
18 Feb 2020	IC	E	E	IC	IC	E	E	IC
20 Feb 2020	ns	E	IC	ns	ns	IC	IC	ns
21 Feb 2020	ns	IC	ns	ns	ns	ns	ns	ns
25 Feb 2020	E	IC	IC	IC	IC	E	IC	IC
27 Feb 2020	E	ns	ns	ns	ns	E	ns	ns
28 Feb 2020	E	ns	ns	ns	ns	E	ns	ns

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 Feb 2020	1035	5400	600e	1200e	0.11
S0	11 Feb 2020	1025	3800e	640	760	0.17
S0	18 Feb 2020	1027	4000	500	820	0.12
S0	25 Feb 2020	1110	8600	1200	2000e	0.14
S2	04 Feb 2020	1120	480	280e	140e	0.58
S2	11 Feb 2020	1123	200e	90	98	0.45
S2	18 Feb 2020	1108	130	24e	34e	0.18
S2	25 Feb 2020	1215	1800e	320e	32e	0.18
S3	04 Feb 2020	1105	> 16000	6600	8200	0.41
S3	11 Feb 2020	1141	10000	280e	320e	0.03
S3	18 Feb 2020	1125	60e	34e	28e	0.57
S3	25 Feb 2020	1145	5200	360e	68	0.07
S4	04 Feb 2020	1011	> 16000	> 12000	11000	0.75
S4	05 Feb 2020	1211	5600	3600e	4200	0.64
S4	07 Feb 2020	935	1500	300e	240e	0.20
S4	09 Feb 2020	813	11000	2200e	4200	0.20
S4	11 Feb 2020	1045	9600	800e	620	0.08
S4	12 Feb 2020	1208	ns	110	40	ns
S4	18 Feb 2020	1004	8200	400e	920	0.05
S4	20 Feb 2020	834	ns	ns	220e	ns
S4	21 Feb 2020	831	ns	ns	34e	ns
S4	25 Feb 2020	931	12000	2200e	240e	0.18
S4	27 Feb 2020	651	8000	3000e	1000	0.38
S4	28 Feb 2020	655	1100	360e	240e	0.33
S5	04 Feb 2020	819	200e	200e	110	1.00
S5	05 Feb 2020	1128	ns	ns	> 12000	ns
S5	07 Feb 2020	843	ns	ns	3000e	ns
S5	09 Feb 2020	914	ns	ns	9000	ns
S5	11 Feb 2020	937	13000	1000e	1600e	0.08
S5	12 Feb 2020	1256	> 16000	> 12000	> 12000	0.75
S5	14 Feb 2020	755	> 16000	> 12000	> 12000	0.75
S5	16 Feb 2020	807	> 16000	> 12000	> 12000	0.75
S5	18 Feb 2020	841	> 16000	> 12000	> 12000	0.75
S5	20 Feb 2020	942	> 16000	> 12000	> 12000	0.75
S5	21 Feb 2020	933	160e	62	120e	0.39
S5	23 Feb 2020	959	ns	ns	2200e	ns
S5	25 Feb 2020	826	340e	12e	16e	0.04
S6	04 Feb 2020	838	<20	2e	4e	0.10
S6	11 Feb 2020	1000	820	60e	66	0.07
S6	18 Feb 2020	856	4600	1200	540	0.26
S6	20 Feb 2020	1001	2e	<2	<2	1.00
S6	25 Feb 2020	842	6e	<2	<2	0.33
S8	04 Feb 2020	738	<20	2e	2e	0.10

Station	Date	Time	Total	Fecal	Enteroc	F:T
S8	11 Feb 2020	840	18e	<2	10e	0.11
S8	18 Feb 2020	803	<2	<2	<2	1.00
S8	25 Feb 2020	1049	<2	<2	<2	1.00
S9	04 Feb 2020	721	<20	2e	<2	0.10
S9	11 Feb 2020	815	2e	<2	<2	1.00
S9	18 Feb 2020	747	6e	2e	<2	0.33
S9	25 Feb 2020	1031	<2	<2	<2	1.00
S10	04 Feb 2020	950	> 16000	> 12000	> 12000	0.75
S10	05 Feb 2020	1219	> 16000	> 12000	> 12000	0.75
S10	07 Feb 2020	946	1200e	440	140e	0.37
S10	09 Feb 2020	829	15000	4400	3800e	0.29
S10	11 Feb 2020	1058	13000	1200e	1400e	0.09
S10	12 Feb 2020	1217	600	120e	44	0.20
S10	18 Feb 2020	1013	> 16000	7800	5800	0.49
S10	20 Feb 2020	855	340e	110	200e	0.32
S10	21 Feb 2020	854	ns	ns	46	ns
S10	25 Feb 2020	939	4400	1400e	120e	0.32
S10	27 Feb 2020	700	> 16000	9000	1000	0.56
S10	28 Feb 2020	702	6400	1600e	1400e	0.25
S11	04 Feb 2020	828	60e	2e	6e	0.03
S11	11 Feb 2020	952	11000	700	580	0.06
S11	12 Feb 2020	1305	40e	78	18e	1.95
S11	18 Feb 2020	849	9000	1800e	400	0.20
S11	20 Feb 2020	954	6e	<2	6e	0.33
S11	25 Feb 2020	835	<2	<2	4e	1.00
S12	04 Feb 2020	757	2e	<2	4e	1.00
S12	11 Feb 2020	907	4e	<2	4e	0.50
S12	18 Feb 2020	820	<2	<2	<2	1.00
S12	25 Feb 2020	807	4e	<2	<2	0.50

ns = not sampled

ND = no data

Comments

Station	Date	Depth	Parameter	Comments
S4	05 Feb 2020			Resample
S5	05 Feb 2020			Resample
S10	05 Feb 2020			Resample
S10	07 Feb 2020			Resample
S4	07 Feb 2020			Resample
S5	07 Feb 2020			Resample
S10	09 Feb 2020			Resample
S4	09 Feb 2020			Resample
S5	09 Feb 2020			Resample
S5	12 Feb 2020			Resample
S4	12 Feb 2020			Resample
S10	12 Feb 2020			Resample
S11	12 Feb 2020			Resample
S5	14 Feb 2020			Resample
S5	16 Feb 2020			Resample
S4	20 Feb 2020			Resample
S5	20 Feb 2020			Resample
S6	20 Feb 2020			Resample
S10	20 Feb 2020			Resample
S11	20 Feb 2020			Resample
S4	21 Feb 2020			Resample
S5	21 Feb 2020			Resample
S10	21 Feb 2020			Resample
S5	23 Feb 2020			Resample
S4	27 Feb 2020			Resample
S10	27 Feb 2020			Resample
S4	28 Feb 2020			Resample
S10	28 Feb 2020			Resample

Table 2.9

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

Station	Date	Parameter	Value
S0	04 Feb 2020	Arrive Time	1035
S0	04 Feb 2020	Weather	Sunny
S0	04 Feb 2020	Wind Speed (kts)	2.3
S0	04 Feb 2020	Wind Dir	NW
S0	04 Feb 2020	Animal Life	5 Dogs; 20 Seagulls
S0	04 Feb 2020	Floatables	None
S0	04 Feb 2020	Water Color	Green
S0	04 Feb 2020	Current Direction	S
S0	04 Feb 2020	Water Temp (C)	14
S0	04 Feb 2020	Wave Height Low (ft)	2
S0	04 Feb 2020	High Tide (ft)	4.8
S0	04 Feb 2020	High Tide Time	452
S0	04 Feb 2020	Low Tide (ft)	0.1
S0	04 Feb 2020	Low Tide Time	1232
S0	04 Feb 2020	Comments	Kelp; Algae; Water turbid; 0.5 L/sec water flowing from storm drain
S0	11 Feb 2020	Arrive Time	1025
S0	11 Feb 2020	Weather	Sunny
S0	11 Feb 2020	Wind Speed (kts)	2.4
S0	11 Feb 2020	Wind Dir	NW
S0	11 Feb 2020	Animal Life	15 Seagulls
S0	11 Feb 2020	Floatables	None
S0	11 Feb 2020	Water Color	Green
S0	11 Feb 2020	Current Direction	N
S0	11 Feb 2020	Water Temp (C)	14
S0	11 Feb 2020	Wave Height Low (ft)	3
S0	11 Feb 2020	High Tide (ft)	5.9
S0	11 Feb 2020	High Tide Time	1005
S0	11 Feb 2020	Low Tide (ft)	0.8
S0	11 Feb 2020	Low Tide Time	407
S0	11 Feb 2020	Comments	Kelp; Algae; Water turbid; 0.5 L/sec water flowing from storm drain
S0	18 Feb 2020	Arrive Time	1027
S0	18 Feb 2020	Weather	Sunny
S0	18 Feb 2020	Wind Speed (kts)	1.6
S0	18 Feb 2020	Wind Dir	NW
S0	18 Feb 2020	Animal Life	15 Seagulls
S0	18 Feb 2020	Floatables	None
S0	18 Feb 2020	Water Color	Green
S0	18 Feb 2020	Current Direction	N
S0	18 Feb 2020	Water Temp (C)	15
S0	18 Feb 2020	Wave Height Low (ft)	3
S0	18 Feb 2020	High Tide (ft)	5.1
S0	18 Feb 2020	High Tide Time	511
S0	18 Feb 2020	Low Tide (ft)	-0.5
S0	18 Feb 2020	Low Tide Time	1246
S0	18 Feb 2020	Comments	Kelp; Algae; Water turbid; 1.0 L/sec water flowing from storm drain
S0	25 Feb 2020	Arrive Time	1110
S0	25 Feb 2020	Weather	Sunny
S0	25 Feb 2020	Wind Speed (kts)	2.8

Station	Date	Parameter	Value
S0	25 Feb 2020	Wind Dir	NW
S0	25 Feb 2020	Animal Life	2 Dogs; 10 Seagulls
S0	25 Feb 2020	Floatables	None
S0	25 Feb 2020	Water Color	Green
S0	25 Feb 2020	Current Direction	N
S0	25 Feb 2020	Water Temp (C)	15
S0	25 Feb 2020	Wave Height Low (ft)	3
S0	25 Feb 2020	High Tide (ft)	5
S0	25 Feb 2020	High Tide Time	938
S0	25 Feb 2020	Low Tide (ft)	-0.1
S0	25 Feb 2020	Low Tide Time	1617
S0	25 Feb 2020	Comments	Kelp; Algae; 1 Person; Water clear; 0.5 L/sec water flowing from storm drain
S2	04 Feb 2020	Arrive Time	1120
S2	04 Feb 2020	Weather	Sunny
S2	04 Feb 2020	Wind Speed (kts)	5.7
S2	04 Feb 2020	Wind Dir	NW
S2	04 Feb 2020	Animal Life	3 Dogs; 20 Seagulls
S2	04 Feb 2020	Floatables	None
S2	04 Feb 2020	Water Color	Green
S2	04 Feb 2020	Current Direction	S
S2	04 Feb 2020	Water Temp (C)	15
S2	04 Feb 2020	Wave Height Low (ft)	2
S2	04 Feb 2020	High Tide (ft)	4.8
S2	04 Feb 2020	High Tide Time	452
S2	04 Feb 2020	Low Tide (ft)	0.1
S2	04 Feb 2020	Low Tide Time	1232
S2	04 Feb 2020	Comments	Kelp; Algae; Water turbid; No flow from storm drain
S2	11 Feb 2020	Arrive Time	1123
S2	11 Feb 2020	Weather	Sunny
S2	11 Feb 2020	Wind Speed (kts)	1.6
S2	11 Feb 2020	Wind Dir	NW
S2	11 Feb 2020	Animal Life	20 Seagulls
S2	11 Feb 2020	Floatables	None
S2	11 Feb 2020	Water Color	Green
S2	11 Feb 2020	Current Direction	N
S2	11 Feb 2020	Water Temp (C)	15
S2	11 Feb 2020	Wave Height Low (ft)	3
S2	11 Feb 2020	High Tide (ft)	5.9
S2	11 Feb 2020	High Tide Time	1005
S2	11 Feb 2020	Low Tide (ft)	-0.9
S2	11 Feb 2020	Low Tide Time	1654
S2	11 Feb 2020	Comments	Kelp; Water turbid; No flow from storm drain
S2	18 Feb 2020	Arrive Time	1108
S2	18 Feb 2020	Weather	Sunny
S2	18 Feb 2020	Wind Speed (kts)	1.9
S2	18 Feb 2020	Wind Dir	NW
S2	18 Feb 2020	Animal Life	2 Birds; 20 Seagulls
S2	18 Feb 2020	Floatables	None
S2	18 Feb 2020	Water Color	Green
S2	18 Feb 2020	Current Direction	N
S2	18 Feb 2020	Water Temp (C)	15

Station	Date	Parameter	Value
S2	18 Feb 2020	Wave Height Low (ft)	3
S2	18 Feb 2020	High Tide (ft)	5.1
S2	18 Feb 2020	High Tide Time	511
S2	18 Feb 2020	Low Tide (ft)	-0.5
S2	18 Feb 2020	Low Tide Time	1246
S2	18 Feb 2020	Comments	Kelp; Algae; Water turbid; No flow from storm drain
S2	25 Feb 2020	Arrive Time	1215
S2	25 Feb 2020	Weather	Sunny
S2	25 Feb 2020	Wind Speed (kts)	2
S2	25 Feb 2020	Wind Dir	NW
S2	25 Feb 2020	Animal Life	1 Dog; 20 Seagulls
S2	25 Feb 2020	Floatables	None
S2	25 Feb 2020	Water Color	Green
S2	25 Feb 2020	Current Direction	N
S2	25 Feb 2020	Water Temp (C)	15
S2	25 Feb 2020	Wave Height Low (ft)	3
S2	25 Feb 2020	High Tide (ft)	5
S2	25 Feb 2020	High Tide Time	938
S2	25 Feb 2020	Low Tide (ft)	-0.1
S2	25 Feb 2020	Low Tide Time	1617
S2	25 Feb 2020	Comments	Kelp; Algae; 8 Persons; Water clear; No flow from storm drain
S3	04 Feb 2020	Arrive Time	1105
S3	04 Feb 2020	Weather	Sunny
S3	04 Feb 2020	Wind Speed (kts)	5.8
S3	04 Feb 2020	Wind Dir	NW
S3	04 Feb 2020	Animal Life	6 Dogs; 20 Seagulls
S3	04 Feb 2020	Floatables	None
S3	04 Feb 2020	Water Color	Green
S3	04 Feb 2020	Current Direction	S
S3	04 Feb 2020	Water Temp (C)	15
S3	04 Feb 2020	Wave Height Low (ft)	3
S3	04 Feb 2020	High Tide (ft)	4.8
S3	04 Feb 2020	High Tide Time	452
S3	04 Feb 2020	Low Tide (ft)	0.1
S3	04 Feb 2020	Low Tide Time	1232
S3	04 Feb 2020	Comments	Kelp; Algae; Water turbid; 0.5 L/sec water flowing from storm drain
S3	11 Feb 2020	Arrive Time	1141
S3	11 Feb 2020	Weather	Sunny
S3	11 Feb 2020	Wind Speed (kts)	1.4
S3	11 Feb 2020	Wind Dir	NW
S3	11 Feb 2020	Animal Life	20 Seagulls
S3	11 Feb 2020	Floatables	None
S3	11 Feb 2020	Water Color	Green
S3	11 Feb 2020	Current Direction	N
S3	11 Feb 2020	Water Temp (C)	15
S3	11 Feb 2020	Wave Height Low (ft)	3
S3	11 Feb 2020	High Tide (ft)	5.9
S3	11 Feb 2020	High Tide Time	1005
S3	11 Feb 2020	Low Tide (ft)	-0.9
S3	11 Feb 2020	Low Tide Time	1654
S3	11 Feb 2020	Comments	Kelp; Water turbid; 0.5 L/sec water flowing from storm drain

Station	Date	Parameter	Value
S3	18 Feb 2020	Arrive Time	1125
S3	18 Feb 2020	Weather	Sunny
S3	18 Feb 2020	Wind Speed (kts)	1.1
S3	18 Feb 2020	Wind Dir	NW
S3	18 Feb 2020	Animal Life	20 Seagulls
S3	18 Feb 2020	Floatables	None
S3	18 Feb 2020	Water Color	Green
S3	18 Feb 2020	Current Direction	N
S3	18 Feb 2020	Water Temp (C)	15
S3	18 Feb 2020	Wave Height Low (ft)	3
S3	18 Feb 2020	High Tide (ft)	5.1
S3	18 Feb 2020	High Tide Time	511
S3	18 Feb 2020	Low Tide (ft)	-0.5
S3	18 Feb 2020	Low Tide Time	1246
S3	18 Feb 2020	Comments	Kelp; Algae; Water turbid; 0.5L/sec water flowing from storm drain
S3	25 Feb 2020	Arrive Time	1145
S3	25 Feb 2020	Weather	Sunny
S3	25 Feb 2020	Wind Speed (kts)	1.8
S3	25 Feb 2020	Wind Dir	NW
S3	25 Feb 2020	Animal Life	2 Dogs; 20 Seagulls
S3	25 Feb 2020	Floatables	None
S3	25 Feb 2020	Water Color	Green
S3	25 Feb 2020	Current Direction	N
S3	25 Feb 2020	Water Temp (C)	15
S3	25 Feb 2020	Wave Height Low (ft)	3
S3	25 Feb 2020	High Tide (ft)	5
S3	25 Feb 2020	High Tide Time	938
S3	25 Feb 2020	Low Tide (ft)	-0.1
S3	25 Feb 2020	Low Tide Time	1617
S3	25 Feb 2020	Comments	Kelp; Algae; 4 Persons; Water clear; 0.5 L/sec water flowing from storm drain
S4	04 Feb 2020	Arrive Time	1011
S4	04 Feb 2020	Weather	Sunny
S4	04 Feb 2020	Wind Speed (kts)	5.8
S4	04 Feb 2020	Wind Dir	NW
S4	04 Feb 2020	Animal Life	70 Godwits; 4 Grebes; 1 Sanderling
S4	04 Feb 2020	Floatables	Foam; Film
S4	04 Feb 2020	Water Color	Brown
S4	04 Feb 2020	Current Direction	NW
S4	04 Feb 2020	Water Temp (C)	14.2
S4	04 Feb 2020	Wave Height Low (ft)	3
S4	04 Feb 2020	High Tide (ft)	4.8
S4	04 Feb 2020	High Tide Time	452
S4	04 Feb 2020	Low Tide (ft)	0.1
S4	04 Feb 2020	Low Tide Time	1232
S4	04 Feb 2020	Comments	Kelp; Seagrass; Sewage-like odor; Water clear
S4	05 Feb 2020	Arrive Time	1211
S4	05 Feb 2020	Weather	Partly Cloudy
S4	05 Feb 2020	Wind Speed (kts)	3.8
S4	05 Feb 2020	Wind Dir	W
S4	05 Feb 2020	Animal Life	30 Godwits; 6 Plovers; 1 Seagull
S4	05 Feb 2020	Floatables	None

Station	Date	Parameter	Value
S4	05 Feb 2020	Water Color	Green
S4	05 Feb 2020	Current Direction	S
S4	05 Feb 2020	Water Temp (C)	15
S4	05 Feb 2020	Wave Height Low (ft)	2
S4	05 Feb 2020	High Tide (ft)	5.3
S4	05 Feb 2020	High Tide Time	541
S4	05 Feb 2020	Low Tide (ft)	-0.5
S4	05 Feb 2020	Low Tide Time	1311
S4	05 Feb 2020	Comments	Resample; Water clear
S4	07 Feb 2020	Arrive Time	935
S4	07 Feb 2020	Weather	Sunny
S4	07 Feb 2020	Wind Speed (kts)	3.4
S4	07 Feb 2020	Wind Dir	NW
S4	07 Feb 2020	Animal Life	4 Godwits; 3 Grebes; 30 Plovers; 3 Sanderlings
S4	07 Feb 2020	Floatables	None
S4	07 Feb 2020	Water Color	Green
S4	07 Feb 2020	Current Direction	S
S4	07 Feb 2020	Water Temp (C)	15.6
S4	07 Feb 2020	Wave Height Low (ft)	2
S4	07 Feb 2020	High Tide (ft)	6.2
S4	07 Feb 2020	High Tide Time	709
S4	07 Feb 2020	Low Tide (ft)	-1.4
S4	07 Feb 2020	Low Tide Time	1424
S4	07 Feb 2020	Comments	Resample; Kelp; Seagrass; Debris; Water clear
S4	09 Feb 2020	Arrive Time	813
S4	09 Feb 2020	Weather	Overcast
S4	09 Feb 2020	Wind Speed (kts)	10.3
S4	09 Feb 2020	Wind Dir	SW
S4	09 Feb 2020	Animal Life	30 Sanderlings
S4	09 Feb 2020	Floatables	Foam; Film
S4	09 Feb 2020	Water Color	Green
S4	09 Feb 2020	Current Direction	N
S4	09 Feb 2020	Water Temp (C)	15.7
S4	09 Feb 2020	Wave Height Low (ft)	3
S4	09 Feb 2020	High Tide (ft)	6.5
S4	09 Feb 2020	High Tide Time	835
S4	09 Feb 2020	Low Tide (ft)	1.2
S4	09 Feb 2020	Low Tide Time	232
S4	09 Feb 2020	Comments	Resample; Kelp; Seagrass; Debris; Sewage-like odor; Water clear
S4	11 Feb 2020	Arrive Time	1045
S4	11 Feb 2020	Weather	Sunny
S4	11 Feb 2020	Wind Speed (kts)	6.6
S4	11 Feb 2020	Wind Dir	W
S4	11 Feb 2020	Animal Life	None
S4	11 Feb 2020	Floatables	None
S4	11 Feb 2020	Water Color	Green
S4	11 Feb 2020	Current Direction	N
S4	11 Feb 2020	Water Temp (C)	16
S4	11 Feb 2020	Wave Height Low (ft)	4
S4	11 Feb 2020	High Tide (ft)	5.9
S4	11 Feb 2020	High Tide Time	1005
S4	11 Feb 2020	Low Tide (ft)	-0.9

Station	Date	Parameter	Value
S4	11 Feb 2020	Low Tide Time	1654
S4	11 Feb 2020	Comments	Kelp; Seagrass; Debris; Water clear
S4	12 Feb 2020	Arrive Time	1208
S4	12 Feb 2020	Weather	Sunny
S4	12 Feb 2020	Wind Speed (kts)	7.1
S4	12 Feb 2020	Wind Dir	SW
S4	12 Feb 2020	Animal Life	20 Godwits; 15 Grebes; 1 Seagull; 20 Terns
S4	12 Feb 2020	Floatables	None
S4	12 Feb 2020	Water Color	Green
S4	12 Feb 2020	Current Direction	N
S4	12 Feb 2020	Water Temp (C)	16.1
S4	12 Feb 2020	Wave Height Low (ft)	2
S4	12 Feb 2020	High Tide (ft)	5.2
S4	12 Feb 2020	High Tide Time	1054
S4	12 Feb 2020	Low Tide (ft)	-0.3
S4	12 Feb 2020	Low Tide Time	1733
S4	12 Feb 2020	Comments	Resample; Water clear
S4	18 Feb 2020	Arrive Time	1004
S4	18 Feb 2020	Weather	Partly Cloudy
S4	18 Feb 2020	Wind Speed (kts)	4.6
S4	18 Feb 2020	Wind Dir	W
S4	18 Feb 2020	Animal Life	1 Cormorant; 30 Godwits; 4 Grebes
S4	18 Feb 2020	Floatables	Film
S4	18 Feb 2020	Water Color	Green
S4	18 Feb 2020	Current Direction	S
S4	18 Feb 2020	Water Temp (C)	16.7
S4	18 Feb 2020	Wave Height Low (ft)	3
S4	18 Feb 2020	High Tide (ft)	5.1
S4	18 Feb 2020	High Tide Time	511
S4	18 Feb 2020	Low Tide (ft)	-0.5
S4	18 Feb 2020	Low Tide Time	1246
S4	18 Feb 2020	Comments	Kelp; Seagrass; Debris; Sewage-like odor; Water clear; Detergent like smell
S4	20 Feb 2020	Arrive Time	834
S4	20 Feb 2020	Weather	Sunny
S4	20 Feb 2020	Wind Speed (kts)	3.4
S4	20 Feb 2020	Wind Dir	E
S4	20 Feb 2020	Animal Life	15 Sand Pipers; 8 Sanderlings; 2 Seagulls
S4	20 Feb 2020	Floatables	Foam
S4	20 Feb 2020	Water Color	Green
S4	20 Feb 2020	Current Direction	S
S4	20 Feb 2020	Water Temp (C)	15.5
S4	20 Feb 2020	Wave Height Low (ft)	3
S4	20 Feb 2020	High Tide (ft)	5.5
S4	20 Feb 2020	High Tide Time	651
S4	20 Feb 2020	Low Tide (ft)	-0.9
S4	20 Feb 2020	Low Tide Time	1403
S4	20 Feb 2020	Comments	Resample; Debris; Water clear
S4	21 Feb 2020	Arrive Time	831
S4	21 Feb 2020	Weather	Foggy
S4	21 Feb 2020	Wind Speed (kts)	6

Station	Date	Parameter	Value
S4	21 Feb 2020	Wind Dir	SW
S4	21 Feb 2020	Animal Life	4 Godwits; 5 Grebes; 1 Seagull
S4	21 Feb 2020	Floatables	None
S4	21 Feb 2020	Water Color	Blue
S4	21 Feb 2020	Current Direction	N
S4	21 Feb 2020	Water Temp (C)	15.7
S4	21 Feb 2020	Wave Height Low (ft)	2
S4	21 Feb 2020	High Tide (ft)	5.6
S4	21 Feb 2020	High Tide Time	730
S4	21 Feb 2020	Low Tide (ft)	-0.9
S4	21 Feb 2020	Low Tide Time	1434
S4	21 Feb 2020	Comments	Resample; Water clear
S4	25 Feb 2020	Arrive Time	931
S4	25 Feb 2020	Weather	Sunny
S4	25 Feb 2020	Wind Speed (kts)	4.4
S4	25 Feb 2020	Wind Dir	W
S4	25 Feb 2020	Animal Life	60 Godwits; 100 Seagulls
S4	25 Feb 2020	Floatables	Foam; Film
S4	25 Feb 2020	Water Color	Green
S4	25 Feb 2020	Current Direction	S
S4	25 Feb 2020	Water Temp (C)	16.3
S4	25 Feb 2020	Wave Height Low (ft)	4
S4	25 Feb 2020	High Tide (ft)	5
S4	25 Feb 2020	High Tide Time	938
S4	25 Feb 2020	Low Tide (ft)	1
S4	25 Feb 2020	Low Tide Time	342
S4	25 Feb 2020	Comments	Kelp; Seagrass; Debris; Water clear
S4	27 Feb 2020	Arrive Time	651
S4	27 Feb 2020	Weather	Sunny
S4	27 Feb 2020	Wind Speed (kts)	3.5
S4	27 Feb 2020	Wind Dir	N
S4	27 Feb 2020	Animal Life	35 Cormorants; 25 Godwits; 4 Seagulls
S4	27 Feb 2020	Floatables	None
S4	27 Feb 2020	Water Color	Green
S4	27 Feb 2020	Current Direction	S
S4	27 Feb 2020	Water Temp (C)	12.1
S4	27 Feb 2020	Wave Height Low (ft)	2
S4	27 Feb 2020	High Tide (ft)	4.1
S4	27 Feb 2020	High Tide Time	1041
S4	27 Feb 2020	Low Tide (ft)	1.1
S4	27 Feb 2020	Low Tide Time	453
S4	27 Feb 2020	Comments	Resample; Sewage-like odor; Water clear
S4	28 Feb 2020	Arrive Time	655
S4	28 Feb 2020	Weather	Partly Cloudy
S4	28 Feb 2020	Wind Speed (kts)	3.4
S4	28 Feb 2020	Wind Dir	E
S4	28 Feb 2020	Animal Life	25 Cormorants; 8 Godwits; 6 Sanderlings
S4	28 Feb 2020	Floatables	Foam; Film
S4	28 Feb 2020	Water Color	Green
S4	28 Feb 2020	Current Direction	S
S4	28 Feb 2020	Water Temp (C)	13.2
S4	28 Feb 2020	Wave Height Low (ft)	1

Station	Date	Parameter	Value
S4	28 Feb 2020	High Tide (ft)	3.5
S4	28 Feb 2020	High Tide Time	1117
S4	28 Feb 2020	Low Tide (ft)	1.2
S4	28 Feb 2020	Low Tide Time	536
S4	28 Feb 2020	Comments	Resample; Kelp; Water clear
S5	04 Feb 2020	Arrive Time	819
S5	04 Feb 2020	Weather	Sunny
S5	04 Feb 2020	Wind Speed (kts)	5.4
S5	04 Feb 2020	Wind Dir	E
S5	04 Feb 2020	Animal Life	1 Grebe; 1 Pelican; 6 Seagulls; 1 Tern
S5	04 Feb 2020	Floatables	Foam
S5	04 Feb 2020	Water Color	Green
S5	04 Feb 2020	Current Direction	N
S5	04 Feb 2020	Water Temp (C)	12.2
S5	04 Feb 2020	Wave Height Low (ft)	4
S5	04 Feb 2020	High Tide (ft)	4.8
S5	04 Feb 2020	High Tide Time	452
S5	04 Feb 2020	Low Tide (ft)	0.1
S5	04 Feb 2020	Low Tide Time	1232
S5	04 Feb 2020	Comments	Sewage-like odor; Water clear
S5	05 Feb 2020	Arrive Time	1128
S5	05 Feb 2020	Weather	Partly Cloudy
S5	05 Feb 2020	Wind Speed (kts)	5
S5	05 Feb 2020	Wind Dir	NW
S5	05 Feb 2020	Animal Life	1 Cormorant; 13 Grebes; 5 Pelicans; 1 Seagull
S5	05 Feb 2020	Floatables	None
S5	05 Feb 2020	Water Color	Green
S5	05 Feb 2020	Current Direction	S
S5	05 Feb 2020	Water Temp (C)	12.9
S5	05 Feb 2020	Wave Height Low (ft)	2
S5	05 Feb 2020	High Tide (ft)	5.3
S5	05 Feb 2020	High Tide Time	541
S5	05 Feb 2020	Low Tide (ft)	-0.5
S5	05 Feb 2020	Low Tide Time	1311
S5	05 Feb 2020	Comments	Resample; Sewage-like odor; Water turbid
S5	07 Feb 2020	Arrive Time	843
S5	07 Feb 2020	Weather	Sunny
S5	07 Feb 2020	Wind Speed (kts)	4.8
S5	07 Feb 2020	Wind Dir	E
S5	07 Feb 2020	Animal Life	None
S5	07 Feb 2020	Floatables	Foam; Dead Animals
S5	07 Feb 2020	Water Color	Green
S5	07 Feb 2020	Current Direction	S
S5	07 Feb 2020	Water Temp (C)	14
S5	07 Feb 2020	Wave Height Low (ft)	1
S5	07 Feb 2020	High Tide (ft)	6.2
S5	07 Feb 2020	High Tide Time	709
S5	07 Feb 2020	Low Tide (ft)	-1.4
S5	07 Feb 2020	Low Tide Time	1424
S5	07 Feb 2020	Comments	Resample; Kelp; Seagrass; Debris; Sewage-like odor; 1 Person; Water clear

Station	Date	Parameter	Value
S5	09 Feb 2020	Arrive Time	914
S5	09 Feb 2020	Weather	Overcast
S5	09 Feb 2020	Wind Speed (kts)	11.2
S5	09 Feb 2020	Wind Dir	W
S5	09 Feb 2020	Animal Life	None
S5	09 Feb 2020	Floatables	Foam; Film
S5	09 Feb 2020	Water Color	Green
S5	09 Feb 2020	Current Direction	N
S5	09 Feb 2020	Water Temp (C)	15.5
S5	09 Feb 2020	Wave Height Low (ft)	3
S5	09 Feb 2020	High Tide (ft)	6.5
S5	09 Feb 2020	High Tide Time	835
S5	09 Feb 2020	Low Tide (ft)	-1.6
S5	09 Feb 2020	Low Tide Time	1538
S5	09 Feb 2020	Comments	Resample; Kelp; Seagrass; Debris; Sewage-like odor; Water clear
S5	11 Feb 2020	Arrive Time	937
S5	11 Feb 2020	Weather	Sunny
S5	11 Feb 2020	Wind Speed (kts)	5.7
S5	11 Feb 2020	Wind Dir	W
S5	11 Feb 2020	Animal Life	None
S5	11 Feb 2020	Floatables	None
S5	11 Feb 2020	Water Color	Green
S5	11 Feb 2020	Current Direction	N
S5	11 Feb 2020	Water Temp (C)	15.8
S5	11 Feb 2020	Wave Height Low (ft)	5
S5	11 Feb 2020	High Tide (ft)	5.9
S5	11 Feb 2020	High Tide Time	1005
S5	11 Feb 2020	Low Tide (ft)	0.8
S5	11 Feb 2020	Low Tide Time	407
S5	11 Feb 2020	Comments	Kelp; Seagrass; 1 Person; Water clear
S5	12 Feb 2020	Arrive Time	1256
S5	12 Feb 2020	Weather	Sunny
S5	12 Feb 2020	Wind Speed (kts)	8.3
S5	12 Feb 2020	Wind Dir	SW
S5	12 Feb 2020	Animal Life	10 Godwits; 20 Pigeons; 10 Seagulls
S5	12 Feb 2020	Floatables	None
S5	12 Feb 2020	Water Color	Brown
S5	12 Feb 2020	Current Direction	N
S5	12 Feb 2020	Water Temp (C)	16.4
S5	12 Feb 2020	Wave Height Low (ft)	2
S5	12 Feb 2020	High Tide (ft)	5.2
S5	12 Feb 2020	High Tide Time	1054
S5	12 Feb 2020	Low Tide (ft)	-0.3
S5	12 Feb 2020	Low Tide Time	1733
S5	12 Feb 2020	Comments	Resample; Sewage-like odor; 5 Persons; Water turbid
S5	14 Feb 2020	Arrive Time	755
S5	14 Feb 2020	Weather	Sunny
S5	14 Feb 2020	Wind Speed (kts)	5.2
S5	14 Feb 2020	Wind Dir	E
S5	14 Feb 2020	Animal Life	1 Cormorant; 7 Pelicans; 19 Seagulls
S5	14 Feb 2020	Floatables	Foam
S5	14 Feb 2020	Water Color	Brown

Station	Date	Parameter	Value
S5	14 Feb 2020	Current Direction	S
S5	14 Feb 2020	Water Temp (C)	13.6
S5	14 Feb 2020	Wave Height Low (ft)	1
S5	14 Feb 2020	High Tide (ft)	3.5
S5	14 Feb 2020	High Tide Time	1303
S5	14 Feb 2020	Low Tide (ft)	1
S5	14 Feb 2020	Low Tide Time	720
S5	14 Feb 2020	Comments	Resample; Kelp; Seagrass; 1 Jogger; Water turbid
S5	16 Feb 2020	Arrive Time	807
S5	16 Feb 2020	Weather	Sunny
S5	16 Feb 2020	Wind Speed (kts)	5.6
S5	16 Feb 2020	Wind Dir	SE
S5	16 Feb 2020	Animal Life	1 Dog; 1 Godwit
S5	16 Feb 2020	Floatables	Foam; Film
S5	16 Feb 2020	Water Color	Brown
S5	16 Feb 2020	Current Direction	S
S5	16 Feb 2020	Water Temp (C)	14.9
S5	16 Feb 2020	Wave Height Low (ft)	1
S5	16 Feb 2020	High Tide (ft)	4.8
S5	16 Feb 2020	High Tide Time	251
S5	16 Feb 2020	Low Tide (ft)	0.5
S5	16 Feb 2020	Low Tide Time	1035
S5	16 Feb 2020	Comments	Resample; Kelp; Seagrass; Debris; Sewage-like odor; 1 Person; Water clear
S5	18 Feb 2020	Arrive Time	841
S5	18 Feb 2020	Weather	Overcast
S5	18 Feb 2020	Wind Speed (kts)	3.3
S5	18 Feb 2020	Wind Dir	SE
S5	18 Feb 2020	Animal Life	3 Cormorants; 2 Godwits; 14 Pelicans; 4 Seagulls
S5	18 Feb 2020	Floatables	Foam; Film
S5	18 Feb 2020	Water Color	Brown
S5	18 Feb 2020	Current Direction	S
S5	18 Feb 2020	Water Temp (C)	15.6
S5	18 Feb 2020	Wave Height Low (ft)	2
S5	18 Feb 2020	High Tide (ft)	5.1
S5	18 Feb 2020	High Tide Time	511
S5	18 Feb 2020	Low Tide (ft)	-0.5
S5	18 Feb 2020	Low Tide Time	1246
S5	18 Feb 2020	Comments	Kelp; Seagrass; Debris; Sewage-like odor; Water turbid; Heavy sewage odor
S5	20 Feb 2020	Arrive Time	942
S5	20 Feb 2020	Weather	Foggy
S5	20 Feb 2020	Wind Speed (kts)	5.8
S5	20 Feb 2020	Wind Dir	W
S5	20 Feb 2020	Animal Life	None
S5	20 Feb 2020	Floatables	Foam; Film
S5	20 Feb 2020	Water Color	Green
S5	20 Feb 2020	Current Direction	S
S5	20 Feb 2020	Water Temp (C)	17.2
S5	20 Feb 2020	Wave Height Low (ft)	1
S5	20 Feb 2020	High Tide (ft)	5.5
S5	20 Feb 2020	High Tide Time	651

Station	Date	Parameter	Value
S5	20 Feb 2020	Low Tide (ft)	-0.9
S5	20 Feb 2020	Low Tide Time	1403
S5	20 Feb 2020	Comments	Resample; Seagrass; Debris; Sewage-like odor; Water clear
S5	21 Feb 2020	Arrive Time	933
S5	21 Feb 2020	Weather	Partly Cloudy
S5	21 Feb 2020	Wind Speed (kts)	11.2
S5	21 Feb 2020	Wind Dir	W
S5	21 Feb 2020	Animal Life	12 Pelicans; 35 Seagulls; 20 Terns
S5	21 Feb 2020	Floatables	None
S5	21 Feb 2020	Water Color	Green
S5	21 Feb 2020	Current Direction	N
S5	21 Feb 2020	Water Temp (C)	15.5
S5	21 Feb 2020	Wave Height Low (ft)	1
S5	21 Feb 2020	High Tide (ft)	5.6
S5	21 Feb 2020	High Tide Time	730
S5	21 Feb 2020	Low Tide (ft)	-0.9
S5	21 Feb 2020	Low Tide Time	1434
S5	21 Feb 2020	Comments	Resample; Sewage-like odor; 2 Joggers; Water clear
S5	23 Feb 2020	Arrive Time	959
S5	23 Feb 2020	Weather	Partly Cloudy
S5	23 Feb 2020	Wind Speed (kts)	3.6
S5	23 Feb 2020	Wind Dir	W
S5	23 Feb 2020	Animal Life	None
S5	23 Feb 2020	Floatables	None
S5	23 Feb 2020	Water Color	Green
S5	23 Feb 2020	Current Direction	N
S5	23 Feb 2020	Water Temp (C)	16.8
S5	23 Feb 2020	Wave Height Low (ft)	3.6
S5	23 Feb 2020	High Tide (ft)	5.5
S5	23 Feb 2020	High Tide Time	837
S5	23 Feb 2020	Low Tide (ft)	-0.7
S5	23 Feb 2020	Low Tide Time	1527
S5	23 Feb 2020	Comments	Resample; Kelp; Seagrass; Debris; 8 Persons; Water clear
S5	25 Feb 2020	Arrive Time	826
S5	25 Feb 2020	Weather	Sunny
S5	25 Feb 2020	Wind Speed (kts)	4.8
S5	25 Feb 2020	Wind Dir	E
S5	25 Feb 2020	Animal Life	1 Cormorant; 100 Seagulls
S5	25 Feb 2020	Floatables	Foam; Film
S5	25 Feb 2020	Water Color	Green
S5	25 Feb 2020	Current Direction	S
S5	25 Feb 2020	Water Temp (C)	16.1
S5	25 Feb 2020	Wave Height Low (ft)	2
S5	25 Feb 2020	High Tide (ft)	5
S5	25 Feb 2020	High Tide Time	938
S5	25 Feb 2020	Low Tide (ft)	1
S5	25 Feb 2020	Low Tide Time	342
S5	25 Feb 2020	Comments	Kelp; Seagrass; Debris; Sewage-like odor; 1 Boat; Water clear
S6	04 Feb 2020	Arrive Time	838
S6	04 Feb 2020	Weather	Sunny
S6	04 Feb 2020	Wind Speed (kts)	5.8

Station	Date	Parameter	Value
S6	04 Feb 2020	Wind Dir	E
S6	04 Feb 2020	Animal Life	2 Grebes; 1 Pelican; 4 Seagulls
S6	04 Feb 2020	Floatables	Foam
S6	04 Feb 2020	Water Color	Green
S6	04 Feb 2020	Current Direction	N
S6	04 Feb 2020	Water Temp (C)	13.4
S6	04 Feb 2020	Wave Height Low (ft)	3
S6	04 Feb 2020	High Tide (ft)	4.8
S6	04 Feb 2020	High Tide Time	452
S6	04 Feb 2020	Low Tide (ft)	0.1
S6	04 Feb 2020	Low Tide Time	1232
S6	04 Feb 2020	Comments	Sewage-like odor; 4 Persons; 2 Surfers; Water clear
S6	11 Feb 2020	Arrive Time	1000
S6	11 Feb 2020	Weather	Sunny
S6	11 Feb 2020	Wind Speed (kts)	1.9
S6	11 Feb 2020	Wind Dir	W
S6	11 Feb 2020	Animal Life	None
S6	11 Feb 2020	Floatables	None
S6	11 Feb 2020	Water Color	Green
S6	11 Feb 2020	Current Direction	N
S6	11 Feb 2020	Water Temp (C)	16.8
S6	11 Feb 2020	Wave Height Low (ft)	4
S6	11 Feb 2020	High Tide (ft)	5.9
S6	11 Feb 2020	High Tide Time	1005
S6	11 Feb 2020	Low Tide (ft)	0.8
S6	11 Feb 2020	Low Tide Time	407
S6	11 Feb 2020	Comments	Kelp; Seagrass; 1 Person; Water clear
S6	18 Feb 2020	Arrive Time	856
S6	18 Feb 2020	Weather	Overcast
S6	18 Feb 2020	Wind Speed (kts)	1.5
S6	18 Feb 2020	Wind Dir	E
S6	18 Feb 2020	Animal Life	1 Cormorant; 3 Dogs
S6	18 Feb 2020	Floatables	Foam; Film
S6	18 Feb 2020	Water Color	Green
S6	18 Feb 2020	Current Direction	S
S6	18 Feb 2020	Water Temp (C)	16.1
S6	18 Feb 2020	Wave Height Low (ft)	3
S6	18 Feb 2020	High Tide (ft)	5.1
S6	18 Feb 2020	High Tide Time	511
S6	18 Feb 2020	Low Tide (ft)	-0.5
S6	18 Feb 2020	Low Tide Time	1246
S6	18 Feb 2020	Comments	Kelp; Seagrass; Debris; Sewage-like odor; 7 Persons; Water clear
S6	20 Feb 2020	Arrive Time	1001
S6	20 Feb 2020	Weather	Sunny
S6	20 Feb 2020	Wind Speed (kts)	1.3
S6	20 Feb 2020	Wind Dir	W
S6	20 Feb 2020	Animal Life	2 Dogs; 3 Godwits
S6	20 Feb 2020	Floatables	Foam; Film
S6	20 Feb 2020	Water Color	Green
S6	20 Feb 2020	Current Direction	S
S6	20 Feb 2020	Water Temp (C)	16.6
S6	20 Feb 2020	Wave Height Low (ft)	2

Station	Date	Parameter	Value
S6	20 Feb 2020	High Tide (ft)	5.5
S6	20 Feb 2020	High Tide Time	651
S6	20 Feb 2020	Low Tide (ft)	-0.9
S6	20 Feb 2020	Low Tide Time	1403
S6	20 Feb 2020	Comments	Resample; Debris; 5 Persons; Water clear
S6	25 Feb 2020	Arrive Time	842
S6	25 Feb 2020	Weather	Sunny
S6	25 Feb 2020	Wind Speed (kts)	2.1
S6	25 Feb 2020	Wind Dir	E
S6	25 Feb 2020	Animal Life	1 Dog
S6	25 Feb 2020	Floatables	Foam; Film
S6	25 Feb 2020	Water Color	Green
S6	25 Feb 2020	Current Direction	S
S6	25 Feb 2020	Water Temp (C)	16.6
S6	25 Feb 2020	Wave Height Low (ft)	3
S6	25 Feb 2020	High Tide (ft)	5
S6	25 Feb 2020	High Tide Time	938
S6	25 Feb 2020	Low Tide (ft)	1
S6	25 Feb 2020	Low Tide Time	342
S6	25 Feb 2020	Comments	Kelp; Seagrass; 4 Persons; 1 Boat; Water clear
S8	04 Feb 2020	Arrive Time	738
S8	04 Feb 2020	Weather	Sunny
S8	04 Feb 2020	Wind Speed (kts)	3.6
S8	04 Feb 2020	Wind Dir	E
S8	04 Feb 2020	Animal Life	1 Pelican; 4 Seagulls
S8	04 Feb 2020	Floatables	Foam
S8	04 Feb 2020	Water Color	Blue
S8	04 Feb 2020	Current Direction	N
S8	04 Feb 2020	Water Temp (C)	12.5
S8	04 Feb 2020	Wave Height Low (ft)	3
S8	04 Feb 2020	High Tide (ft)	4.8
S8	04 Feb 2020	High Tide Time	452
S8	04 Feb 2020	Low Tide (ft)	0.1
S8	04 Feb 2020	Low Tide Time	1232
S8	04 Feb 2020	Comments	Kelp; Water clear
S8	11 Feb 2020	Arrive Time	840
S8	11 Feb 2020	Weather	Sunny
S8	11 Feb 2020	Wind Speed (kts)	1.7
S8	11 Feb 2020	Wind Dir	E
S8	11 Feb 2020	Animal Life	None
S8	11 Feb 2020	Floatables	None
S8	11 Feb 2020	Water Color	Green
S8	11 Feb 2020	Current Direction	N
S8	11 Feb 2020	Water Temp (C)	15.4
S8	11 Feb 2020	Wave Height Low (ft)	3
S8	11 Feb 2020	High Tide (ft)	5.9
S8	11 Feb 2020	High Tide Time	1005
S8	11 Feb 2020	Low Tide (ft)	0.8
S8	11 Feb 2020	Low Tide Time	407
S8	11 Feb 2020	Comments	Kelp; Seagrass; Water clear
S8	18 Feb 2020	Arrive Time	803

Station	Date	Parameter	Value
S8	18 Feb 2020	Weather	Overcast
S8	18 Feb 2020	Wind Speed (kts)	2.7
S8	18 Feb 2020	Wind Dir	E
S8	18 Feb 2020	Animal Life	1 Cormorant; 3 Seagulls
S8	18 Feb 2020	Floatables	Foam
S8	18 Feb 2020	Water Color	Green
S8	18 Feb 2020	Current Direction	S
S8	18 Feb 2020	Water Temp (C)	15.4
S8	18 Feb 2020	Wave Height Low (ft)	1.5
S8	18 Feb 2020	High Tide (ft)	5.1
S8	18 Feb 2020	High Tide Time	511
S8	18 Feb 2020	Low Tide (ft)	-0.5
S8	18 Feb 2020	Low Tide Time	1246
S8	18 Feb 2020	Comments	Kelp; Seagrass; 1 Jogger; 1 Boat; Water clear
S8	25 Feb 2020	Arrive Time	1049
S8	25 Feb 2020	Weather	Sunny
S8	25 Feb 2020	Wind Speed (kts)	732
S8	25 Feb 2020	Wind Dir	W
S8	25 Feb 2020	Animal Life	None
S8	25 Feb 2020	Floatables	Foam; Film
S8	25 Feb 2020	Water Color	Green
S8	25 Feb 2020	Current Direction	S
S8	25 Feb 2020	Water Temp (C)	18.2
S8	25 Feb 2020	Wave Height Low (ft)	2
S8	25 Feb 2020	High Tide (ft)	5
S8	25 Feb 2020	High Tide Time	938
S8	25 Feb 2020	Low Tide (ft)	-0.1
S8	25 Feb 2020	Low Tide Time	1617
S8	25 Feb 2020	Comments	Kelp; Seagrass; 4 Persons; 1 Fisherman; Water clear
S9	04 Feb 2020	Arrive Time	721
S9	04 Feb 2020	Weather	Sunny
S9	04 Feb 2020	Wind Speed (kts)	3.3
S9	04 Feb 2020	Wind Dir	E
S9	04 Feb 2020	Animal Life	6 Cormorants; 3 Seagulls
S9	04 Feb 2020	Floatables	Foam
S9	04 Feb 2020	Water Color	Blue
S9	04 Feb 2020	Current Direction	N
S9	04 Feb 2020	Water Temp (C)	12.5
S9	04 Feb 2020	Wave Height Low (ft)	2
S9	04 Feb 2020	High Tide (ft)	4.8
S9	04 Feb 2020	High Tide Time	452
S9	04 Feb 2020	Low Tide (ft)	0.1
S9	04 Feb 2020	Low Tide Time	1232
S9	04 Feb 2020	Comments	Water clear
S9	11 Feb 2020	Arrive Time	815
S9	11 Feb 2020	Weather	Sunny
S9	11 Feb 2020	Wind Speed (kts)	1.5
S9	11 Feb 2020	Wind Dir	E
S9	11 Feb 2020	Animal Life	None
S9	11 Feb 2020	Floatables	None
S9	11 Feb 2020	Water Color	Green
S9	11 Feb 2020	Current Direction	N

Station	Date	Parameter	Value
S9	11 Feb 2020	Water Temp (C)	14.4
S9	11 Feb 2020	Wave Height Low (ft)	4
S9	11 Feb 2020	High Tide (ft)	5.9
S9	11 Feb 2020	High Tide Time	1005
S9	11 Feb 2020	Low Tide (ft)	0.8
S9	11 Feb 2020	Low Tide Time	407
S9	11 Feb 2020	Comments	Kelp; Seagrass; 1 Person; 1 Swimmer; Water clear
S9	18 Feb 2020	Arrive Time	747
S9	18 Feb 2020	Weather	Overcast
S9	18 Feb 2020	Wind Speed (kts)	4.6
S9	18 Feb 2020	Wind Dir	W
S9	18 Feb 2020	Animal Life	7 Cormorants; 2 Seagulls
S9	18 Feb 2020	Floatables	Film
S9	18 Feb 2020	Water Color	Blue
S9	18 Feb 2020	Current Direction	S
S9	18 Feb 2020	Water Temp (C)	15.9
S9	18 Feb 2020	Wave Height Low (ft)	2
S9	18 Feb 2020	High Tide (ft)	5.1
S9	18 Feb 2020	High Tide Time	511
S9	18 Feb 2020	Low Tide (ft)	-0.5
S9	18 Feb 2020	Low Tide Time	1246
S9	18 Feb 2020	Comments	1 Person; 1 Fisherman; Water clear
S9	25 Feb 2020	Arrive Time	1031
S9	25 Feb 2020	Weather	Sunny
S9	25 Feb 2020	Wind Speed (kts)	5.6
S9	25 Feb 2020	Wind Dir	W
S9	25 Feb 2020	Animal Life	None
S9	25 Feb 2020	Floatables	Foam; Film
S9	25 Feb 2020	Water Color	Green
S9	25 Feb 2020	Current Direction	S
S9	25 Feb 2020	Water Temp (C)	18.1
S9	25 Feb 2020	Wave Height Low (ft)	2
S9	25 Feb 2020	High Tide (ft)	5
S9	25 Feb 2020	High Tide Time	938
S9	25 Feb 2020	Low Tide (ft)	-0.1
S9	25 Feb 2020	Low Tide Time	1617
S9	25 Feb 2020	Comments	Kelp; Seagrass; 8 Persons; Water clear
S10	04 Feb 2020	Arrive Time	950
S10	04 Feb 2020	Weather	Sunny
S10	04 Feb 2020	Wind Speed (kts)	5.4
S10	04 Feb 2020	Wind Dir	E
S10	04 Feb 2020	Animal Life	3 Seagulls
S10	04 Feb 2020	Floatables	Foam
S10	04 Feb 2020	Water Color	Green
S10	04 Feb 2020	Current Direction	N
S10	04 Feb 2020	Water Temp (C)	14.2
S10	04 Feb 2020	Wave Height Low (ft)	4
S10	04 Feb 2020	High Tide (ft)	4.8
S10	04 Feb 2020	High Tide Time	452
S10	04 Feb 2020	Low Tide (ft)	0.1
S10	04 Feb 2020	Low Tide Time	1232
S10	04 Feb 2020	Comments	Sewage-like odor; 2 Persons; Water clear

Station	Date	Parameter	Value
S10	05 Feb 2020	Arrive Time	1219
S10	05 Feb 2020	Weather	Partly Cloudy
S10	05 Feb 2020	Wind Speed (kts)	4
S10	05 Feb 2020	Wind Dir	W
S10	05 Feb 2020	Animal Life	1 Godwit; 1 Seagull
S10	05 Feb 2020	Floatables	None
S10	05 Feb 2020	Water Color	Green
S10	05 Feb 2020	Current Direction	S
S10	05 Feb 2020	Water Temp (C)	14.5
S10	05 Feb 2020	Wave Height Low (ft)	2
S10	05 Feb 2020	High Tide (ft)	5.3
S10	05 Feb 2020	High Tide Time	541
S10	05 Feb 2020	Low Tide (ft)	-0.5
S10	05 Feb 2020	Low Tide Time	1311
S10	05 Feb 2020	Comments	Resample; Sewage-like odor; 11 Persons; Water clear
S10	07 Feb 2020	Arrive Time	946
S10	07 Feb 2020	Weather	Sunny
S10	07 Feb 2020	Wind Speed (kts)	3.6
S10	07 Feb 2020	Wind Dir	NE
S10	07 Feb 2020	Animal Life	3 Plovers
S10	07 Feb 2020	Floatables	None
S10	07 Feb 2020	Water Color	Green
S10	07 Feb 2020	Current Direction	S
S10	07 Feb 2020	Water Temp (C)	14.6
S10	07 Feb 2020	Wave Height Low (ft)	3
S10	07 Feb 2020	High Tide (ft)	6.2
S10	07 Feb 2020	High Tide Time	709
S10	07 Feb 2020	Low Tide (ft)	-1.4
S10	07 Feb 2020	Low Tide Time	1424
S10	07 Feb 2020	Comments	Resample; Kelp; Seagrass; Water clear
S10	09 Feb 2020	Arrive Time	829
S10	09 Feb 2020	Weather	Overcast
S10	09 Feb 2020	Wind Speed (kts)	8.7
S10	09 Feb 2020	Wind Dir	SW
S10	09 Feb 2020	Animal Life	None
S10	09 Feb 2020	Floatables	Foam; Film
S10	09 Feb 2020	Water Color	Green
S10	09 Feb 2020	Current Direction	N
S10	09 Feb 2020	Water Temp (C)	14.9
S10	09 Feb 2020	Wave Height Low (ft)	3
S10	09 Feb 2020	High Tide (ft)	6.5
S10	09 Feb 2020	High Tide Time	835
S10	09 Feb 2020	Low Tide (ft)	1.2
S10	09 Feb 2020	Low Tide Time	232
S10	09 Feb 2020	Comments	Resample; Kelp; Seagrass; Debris; Sewage-like odor; Water clear
S10	11 Feb 2020	Arrive Time	1058
S10	11 Feb 2020	Weather	Sunny
S10	11 Feb 2020	Wind Speed (kts)	6.6
S10	11 Feb 2020	Wind Dir	W
S10	11 Feb 2020	Animal Life	None
S10	11 Feb 2020	Floatables	None

Station	Date	Parameter	Value
S10	11 Feb 2020	Water Color	Green
S10	11 Feb 2020	Current Direction	N
S10	11 Feb 2020	Water Temp (C)	16
S10	11 Feb 2020	Wave Height Low (ft)	5
S10	11 Feb 2020	High Tide (ft)	5.9
S10	11 Feb 2020	High Tide Time	1005
S10	11 Feb 2020	Low Tide (ft)	-0.9
S10	11 Feb 2020	Low Tide Time	1654
S10	11 Feb 2020	Comments	Kelp; Seagrass; Water clear
S10	12 Feb 2020	Arrive Time	1217
S10	12 Feb 2020	Weather	Sunny
S10	12 Feb 2020	Wind Speed (kts)	7.7
S10	12 Feb 2020	Wind Dir	S
S10	12 Feb 2020	Animal Life	1 Seagull; 2 Seals
S10	12 Feb 2020	Floatables	None
S10	12 Feb 2020	Water Color	Green
S10	12 Feb 2020	Current Direction	N
S10	12 Feb 2020	Water Temp (C)	16.2
S10	12 Feb 2020	Wave Height Low (ft)	2
S10	12 Feb 2020	High Tide (ft)	5.2
S10	12 Feb 2020	High Tide Time	1054
S10	12 Feb 2020	Low Tide (ft)	-0.3
S10	12 Feb 2020	Low Tide Time	1733
S10	12 Feb 2020	Comments	Resample; Water clear
S10	18 Feb 2020	Arrive Time	1013
S10	18 Feb 2020	Weather	Sunny
S10	18 Feb 2020	Wind Speed (kts)	4.6
S10	18 Feb 2020	Wind Dir	W
S10	18 Feb 2020	Animal Life	2 Godwits
S10	18 Feb 2020	Floatables	Film
S10	18 Feb 2020	Water Color	Green
S10	18 Feb 2020	Current Direction	S
S10	18 Feb 2020	Water Temp (C)	16.9
S10	18 Feb 2020	Wave Height Low (ft)	4
S10	18 Feb 2020	High Tide (ft)	5.1
S10	18 Feb 2020	High Tide Time	511
S10	18 Feb 2020	Low Tide (ft)	-0.5
S10	18 Feb 2020	Low Tide Time	1246
S10	18 Feb 2020	Comments	Kelp; Seagrass; Debris; Sewage-like odor; Water clear; Detergent like odor
S10	20 Feb 2020	Arrive Time	855
S10	20 Feb 2020	Weather	Sunny
S10	20 Feb 2020	Wind Speed (kts)	3.3
S10	20 Feb 2020	Wind Dir	E
S10	20 Feb 2020	Animal Life	5 Sanderlings
S10	20 Feb 2020	Floatables	Foam; Film
S10	20 Feb 2020	Water Color	Green
S10	20 Feb 2020	Current Direction	S
S10	20 Feb 2020	Water Temp (C)	15.5
S10	20 Feb 2020	Wave Height Low (ft)	2
S10	20 Feb 2020	High Tide (ft)	5.5
S10	20 Feb 2020	High Tide Time	651

Station	Date	Parameter	Value
S10	20 Feb 2020	Low Tide (ft)	-0.9
S10	20 Feb 2020	Low Tide Time	1403
S10	20 Feb 2020	Comments	Resample; Debris; Water clear
S10	21 Feb 2020	Arrive Time	854
S10	21 Feb 2020	Weather	Foggy
S10	21 Feb 2020	Wind Speed (kts)	8.3
S10	21 Feb 2020	Wind Dir	SW
S10	21 Feb 2020	Animal Life	2 Godwits; 1 Seagull
S10	21 Feb 2020	Floatables	None
S10	21 Feb 2020	Water Color	Blue
S10	21 Feb 2020	Current Direction	N
S10	21 Feb 2020	Water Temp (C)	15.7
S10	21 Feb 2020	Wave Height Low (ft)	3
S10	21 Feb 2020	High Tide (ft)	5.6
S10	21 Feb 2020	High Tide Time	730
S10	21 Feb 2020	Low Tide (ft)	-0.9
S10	21 Feb 2020	Low Tide Time	1434
S10	21 Feb 2020	Comments	Resample; Water clear
S10	25 Feb 2020	Arrive Time	939
S10	25 Feb 2020	Weather	Sunny
S10	25 Feb 2020	Wind Speed (kts)	7.3
S10	25 Feb 2020	Wind Dir	N
S10	25 Feb 2020	Animal Life	1 Cormorant; 2 Seagulls
S10	25 Feb 2020	Floatables	Foam
S10	25 Feb 2020	Water Color	Green
S10	25 Feb 2020	Current Direction	S
S10	25 Feb 2020	Water Temp (C)	16.3
S10	25 Feb 2020	Wave Height Low (ft)	3
S10	25 Feb 2020	High Tide (ft)	5
S10	25 Feb 2020	High Tide Time	938
S10	25 Feb 2020	Low Tide (ft)	1
S10	25 Feb 2020	Low Tide Time	342
S10	25 Feb 2020	Comments	Kelp; Seagrass; Debris; Water clear
S10	27 Feb 2020	Arrive Time	700
S10	27 Feb 2020	Weather	Sunny
S10	27 Feb 2020	Wind Speed (kts)	2.7
S10	27 Feb 2020	Wind Dir	N
S10	27 Feb 2020	Animal Life	2 Cormorants; 1 Grebe
S10	27 Feb 2020	Floatables	None
S10	27 Feb 2020	Water Color	Green
S10	27 Feb 2020	Current Direction	S
S10	27 Feb 2020	Water Temp (C)	12.7
S10	27 Feb 2020	Wave Height Low (ft)	2
S10	27 Feb 2020	High Tide (ft)	4.1
S10	27 Feb 2020	High Tide Time	1041
S10	27 Feb 2020	Low Tide (ft)	1.1
S10	27 Feb 2020	Low Tide Time	453
S10	27 Feb 2020	Comments	Resample; Sewage-like odor; Water clear
S10	28 Feb 2020	Arrive Time	702
S10	28 Feb 2020	Weather	Partly Cloudy
S10	28 Feb 2020	Wind Speed (kts)	3.6

Station	Date	Parameter	Value
S10	28 Feb 2020	Wind Dir	E
S10	28 Feb 2020	Animal Life	2 Godwits
S10	28 Feb 2020	Floatables	Foam; Film
S10	28 Feb 2020	Water Color	Green
S10	28 Feb 2020	Current Direction	S
S10	28 Feb 2020	Water Temp (C)	13
S10	28 Feb 2020	Wave Height Low (ft)	1
S10	28 Feb 2020	High Tide (ft)	3.5
S10	28 Feb 2020	High Tide Time	1117
S10	28 Feb 2020	Low Tide (ft)	1.2
S10	28 Feb 2020	Low Tide Time	536
S10	28 Feb 2020	Comments	Resample; Water clear
S11	04 Feb 2020	Arrive Time	828
S11	04 Feb 2020	Weather	Sunny
S11	04 Feb 2020	Wind Speed (kts)	4.4
S11	04 Feb 2020	Wind Dir	E
S11	04 Feb 2020	Animal Life	3 Cormorants; 2 Dogs; 7 Seagulls
S11	04 Feb 2020	Floatables	Foam
S11	04 Feb 2020	Water Color	Green
S11	04 Feb 2020	Current Direction	N
S11	04 Feb 2020	Water Temp (C)	13
S11	04 Feb 2020	Wave Height Low (ft)	3
S11	04 Feb 2020	High Tide (ft)	4.8
S11	04 Feb 2020	High Tide Time	452
S11	04 Feb 2020	Low Tide (ft)	0.1
S11	04 Feb 2020	Low Tide Time	1232
S11	04 Feb 2020	Comments	Sewage-like odor; 1 Person; 1 Surfer; Water clear
S11	11 Feb 2020	Arrive Time	952
S11	11 Feb 2020	Weather	Sunny
S11	11 Feb 2020	Wind Speed (kts)	1.5
S11	11 Feb 2020	Wind Dir	W
S11	11 Feb 2020	Animal Life	None
S11	11 Feb 2020	Floatables	None
S11	11 Feb 2020	Water Color	Green
S11	11 Feb 2020	Current Direction	N
S11	11 Feb 2020	Water Temp (C)	16
S11	11 Feb 2020	Wave Height Low (ft)	6
S11	11 Feb 2020	High Tide (ft)	5.9
S11	11 Feb 2020	High Tide Time	1005
S11	11 Feb 2020	Low Tide (ft)	0.8
S11	11 Feb 2020	Low Tide Time	407
S11	11 Feb 2020	Comments	Kelp; Seagrass; 2 Persons; Water clear
S11	12 Feb 2020	Arrive Time	1305
S11	12 Feb 2020	Weather	Sunny
S11	12 Feb 2020	Wind Speed (kts)	7.3
S11	12 Feb 2020	Wind Dir	SW
S11	12 Feb 2020	Animal Life	1 Seagull
S11	12 Feb 2020	Floatables	None
S11	12 Feb 2020	Water Color	Green
S11	12 Feb 2020	Current Direction	N
S11	12 Feb 2020	Water Temp (C)	15.4
S11	12 Feb 2020	Wave Height Low (ft)	3

Station	Date	Parameter	Value
S11	12 Feb 2020	High Tide (ft)	5.2
S11	12 Feb 2020	High Tide Time	1054
S11	12 Feb 2020	Low Tide (ft)	-0.3
S11	12 Feb 2020	Low Tide Time	1733
S11	12 Feb 2020	Comments	Resample; 2 Persons; Water clear
S11	18 Feb 2020	Arrive Time	849
S11	18 Feb 2020	Weather	Overcast
S11	18 Feb 2020	Wind Speed (kts)	6.8
S11	18 Feb 2020	Wind Dir	NW
S11	18 Feb 2020	Animal Life	1 Godwit
S11	18 Feb 2020	Floatables	Foam; Film
S11	18 Feb 2020	Water Color	Green
S11	18 Feb 2020	Current Direction	S
S11	18 Feb 2020	Water Temp (C)	15.5
S11	18 Feb 2020	Wave Height Low (ft)	3
S11	18 Feb 2020	High Tide (ft)	5.1
S11	18 Feb 2020	High Tide Time	511
S11	18 Feb 2020	Low Tide (ft)	-0.5
S11	18 Feb 2020	Low Tide Time	1246
S11	18 Feb 2020	Comments	Kelp; Seagrass; Debris; Sewage-like odor; Water clear
S11	20 Feb 2020	Arrive Time	954
S11	20 Feb 2020	Weather	Foggy
S11	20 Feb 2020	Wind Speed (kts)	6.4
S11	20 Feb 2020	Wind Dir	W
S11	20 Feb 2020	Animal Life	2 Pelicans; 1 Sand Piper; 2 Seagulls
S11	20 Feb 2020	Floatables	Foam; Film
S11	20 Feb 2020	Water Color	Green
S11	20 Feb 2020	Current Direction	S
S11	20 Feb 2020	Water Temp (C)	16.9
S11	20 Feb 2020	Wave Height Low (ft)	2
S11	20 Feb 2020	High Tide (ft)	5.5
S11	20 Feb 2020	High Tide Time	651
S11	20 Feb 2020	Low Tide (ft)	-0.9
S11	20 Feb 2020	Low Tide Time	1403
S11	20 Feb 2020	Comments	Resample; Kelp; Seagrass; Debris; 3 Persons; Water clear
S11	25 Feb 2020	Arrive Time	835
S11	25 Feb 2020	Weather	Sunny
S11	25 Feb 2020	Wind Speed (kts)	3.4
S11	25 Feb 2020	Wind Dir	E
S11	25 Feb 2020	Animal Life	1 Cormorant; 1 Godwit; 1 Sanderling
S11	25 Feb 2020	Floatables	Foam; Film
S11	25 Feb 2020	Water Color	Green
S11	25 Feb 2020	Current Direction	S
S11	25 Feb 2020	Water Temp (C)	16.2
S11	25 Feb 2020	Wave Height Low (ft)	3
S11	25 Feb 2020	High Tide (ft)	5
S11	25 Feb 2020	High Tide Time	938
S11	25 Feb 2020	Low Tide (ft)	1
S11	25 Feb 2020	Low Tide Time	342
S11	25 Feb 2020	Comments	Kelp; Seagrass; 1 Boat; Water clear
S12	04 Feb 2020	Arrive Time	757

Station	Date	Parameter	Value
S12	04 Feb 2020	Weather	Sunny
S12	04 Feb 2020	Wind Speed (kts)	1.5
S12	04 Feb 2020	Wind Dir	W
S12	04 Feb 2020	Animal Life	6 Cormorants; 1 Dog; 2 Seagulls
S12	04 Feb 2020	Floatables	Foam
S12	04 Feb 2020	Water Color	Green
S12	04 Feb 2020	Current Direction	N
S12	04 Feb 2020	Water Temp (C)	12.9
S12	04 Feb 2020	Wave Height Low (ft)	3
S12	04 Feb 2020	High Tide (ft)	4.8
S12	04 Feb 2020	High Tide Time	452
S12	04 Feb 2020	Low Tide (ft)	0.1
S12	04 Feb 2020	Low Tide Time	1232
S12	04 Feb 2020	Comments	Kelp; Sewage-like odor; 1 Person; Water clear
S12	11 Feb 2020	Arrive Time	907
S12	11 Feb 2020	Weather	Sunny
S12	11 Feb 2020	Wind Speed (kts)	0.3
S12	11 Feb 2020	Wind Dir	W
S12	11 Feb 2020	Animal Life	2 Dogs
S12	11 Feb 2020	Floatables	None
S12	11 Feb 2020	Water Color	Green
S12	11 Feb 2020	Current Direction	N
S12	11 Feb 2020	Water Temp (C)	14.8
S12	11 Feb 2020	Wave Height Low (ft)	3
S12	11 Feb 2020	High Tide (ft)	5.9
S12	11 Feb 2020	High Tide Time	1005
S12	11 Feb 2020	Low Tide (ft)	0.8
S12	11 Feb 2020	Low Tide Time	407
S12	11 Feb 2020	Comments	Kelp; Seagrass; 1 Jogger; 8 Persons; 1 Fisherman; Water clear
S12	18 Feb 2020	Arrive Time	820
S12	18 Feb 2020	Weather	Overcast
S12	18 Feb 2020	Wind Speed (kts)	4.4
S12	18 Feb 2020	Wind Dir	E
S12	18 Feb 2020	Animal Life	40 Cormorants; 2 Dogs; 2 Godwits; 1 Pelican; 1 Seagull
S12	18 Feb 2020	Floatables	Foam; Film
S12	18 Feb 2020	Water Color	Green
S12	18 Feb 2020	Current Direction	S
S12	18 Feb 2020	Water Temp (C)	15.2
S12	18 Feb 2020	Wave Height Low (ft)	2
S12	18 Feb 2020	High Tide (ft)	5.1
S12	18 Feb 2020	High Tide Time	511
S12	18 Feb 2020	Low Tide (ft)	-0.5
S12	18 Feb 2020	Low Tide Time	1246
S12	18 Feb 2020	Comments	Kelp; Seagrass; 1 Jogger; 1 Person; 1 Boat; 3 Fishermen; Water clear
S12	25 Feb 2020	Arrive Time	807
S12	25 Feb 2020	Weather	Sunny
S12	25 Feb 2020	Wind Speed (kts)	2.1
S12	25 Feb 2020	Wind Dir	E
S12	25 Feb 2020	Animal Life	30 Cormorants; 2 Seagulls
S12	25 Feb 2020	Floatables	Foam
S12	25 Feb 2020	Water Color	Green

Station	Date	Parameter	Value
S12	25 Feb 2020	Current Direction	S
S12	25 Feb 2020	Water Temp (C)	16.8
S12	25 Feb 2020	Wave Height Low (ft)	2
S12	25 Feb 2020	High Tide (ft)	5
S12	25 Feb 2020	High Tide Time	938
S12	25 Feb 2020	Low Tide (ft)	1
S12	25 Feb 2020	Low Tide Time	342
S12	25 Feb 2020	Comments	Kelp; Seagrass; Water clear

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 Feb 2020	3900*	322*	46*	26*	4*	7*	888*
02 Feb 2020	3900*	322*	46*	26*	4*	7*	888*
03 Feb 2020	3900*	322*	46*	26*	4*	7*	888*
04 Feb 2020	3900*	322*	46*	26*	4*	7*	888*
05 Feb 2020	3958	154	32	15	4	6	823
06 Feb 2020	3166*	252*	41*	10*	4*	7*	843*
07 Feb 2020	3166*	252*	41*	10*	4*	7*	843*
08 Feb 2020	3166*	252*	41*	10*	4*	7*	843*
09 Feb 2020	3166*	252*	41*	10*	4*	7*	843*
10 Feb 2020	1859	248	48	27	14	6	955
11 Feb 2020	1859	248	48	27	14	6	955
12 Feb 2020	1354*	96*	13*	24*	21*	3*	575*
13 Feb 2020	1354*	96*	13*	24*	21*	3*	575*
14 Feb 2020	1354*	96*	13*	24*	21*	3*	575*
15 Feb 2020	1354*	96*	13*	24*	21*	3*	575*
16 Feb 2020	1354*	96*	13*	24*	21*	3*	575*
17 Feb 2020	1354*	96*	13*	24*	21*	3*	575*
18 Feb 2020	1944	125	12	19	13	3	761
19 Feb 2020	1944	125	12	19	13	3	761
20 Feb 2020	1880*	48*	18*	21*	15*	2*	404*
21 Feb 2020	1880*	48*	18*	21*	15*	2*	404*
22 Feb 2020	1880*	48*	18*	21*	15*	2*	404*
23 Feb 2020	1880*	48*	18*	21*	15*	2*	404*
24 Feb 2020	1880*	48*	18*	21*	15*	2*	404*
25 Feb 2020	1373	26	11	13	10	2	188
26 Feb 2020	1373	26	11	13	10	2	188
27 Feb 2020	1314*	34*	11*	15*	11*	2*	373*
28 Feb 2020	1314*	34*	11*	15*	11*	2*	373*
29 Feb 2020	1314*	34*	11*	15*	11*	2*	373*

* Geometric mean calculated using n<5

Kelp Stations

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 Feb 2020	583*	43*	9*	4*	2*	4*	143*
02 Feb 2020	583*	43*	9*	4*	2*	4*	143*
03 Feb 2020	583*	43*	9*	4*	2*	4*	143*
04 Feb 2020	583*	43*	9*	4*	2*	4*	143*
05 Feb 2020	636	23	7	3	2	3	151
06 Feb 2020	525*	36*	9*	3*	2*	4*	150*
07 Feb 2020	525*	36*	9*	3*	2*	4*	150*
08 Feb 2020	525*	36*	9*	3*	2*	4*	150*
09 Feb 2020	525*	36*	9*	3*	2*	4*	150*
10 Feb 2020	312	50	9	8	6	3	181
11 Feb 2020	312	50	9	8	6	3	181
12 Feb 2020	223*	22*	3*	8*	8*	2*	133*
13 Feb 2020	223*	22*	3*	8*	8*	2*	133*
14 Feb 2020	223*	22*	3*	8*	8*	2*	133*
15 Feb 2020	223*	22*	3*	8*	8*	2*	133*
16 Feb 2020	223*	22*	3*	8*	8*	2*	133*
17 Feb 2020	223*	22*	3*	8*	8*	2*	133*
18 Feb 2020	352	28	3	8	6	2	176
19 Feb 2020	352	28	3	8	6	2	176
20 Feb 2020	372*	15*	3*	11*	8*	2*	95*
21 Feb 2020	372*	15*	3*	11*	8*	2*	95*
22 Feb 2020	372*	15*	3*	11*	8*	2*	95*
23 Feb 2020	372*	15*	3*	11*	8*	2*	95*
24 Feb 2020	372*	15*	3*	11*	8*	2*	95*
25 Feb 2020	265	10	3	8	6	2	46
26 Feb 2020	265	10	3	8	6	2	46
27 Feb 2020	267*	15*	3*	11*	8*	2*	102*
28 Feb 2020	267*	15*	3*	11*	8*	2*	102*
29 Feb 2020	267*	15*	3*	11*	8*	2*	102*

* 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 Feb 2020	169*	93*	18*	42*	2*	3*	53*
02 Feb 2020	169*	93*	18*	42*	2*	3*	53*
03 Feb 2020	169*	93*	18*	42*	2*	3*	53*
04 Feb 2020	169*	93*	18*	42*	2*	3*	53*
05 Feb 2020	203	48	16	29	2	3	74
06 Feb 2020	169*	47*	12*	19*	2*	3*	95*
07 Feb 2020	169*	47*	12*	19*	2*	3*	95*
08 Feb 2020	169*	47*	12*	19*	2*	3*	95*
09 Feb 2020	169*	47*	12*	19*	2*	3*	95*
10 Feb 2020	116	47	14	39	6	3	117
11 Feb 2020	116	47	14	39	6	3	117
12 Feb 2020	100*	29*	8*	46*	8*	2*	126*
13 Feb 2020	100*	29*	8*	46*	8*	2*	126*
14 Feb 2020	100*	29*	8*	46*	8*	2*	126*
15 Feb 2020	100*	29*	8*	46*	8*	2*	126*
16 Feb 2020	100*	29*	8*	46*	8*	2*	126*
17 Feb 2020	100*	29*	8*	46*	8*	2*	126*
18 Feb 2020	148	28	7	34	6	2	167
19 Feb 2020	148	28	7	34	6	2	167
20 Feb 2020	161*	12*	8*	26*	8*	2*	118*
21 Feb 2020	161*	12*	8*	26*	8*	2*	118*
22 Feb 2020	161*	12*	8*	26*	8*	2*	118*
23 Feb 2020	161*	12*	8*	26*	8*	2*	118*
24 Feb 2020	161*	12*	8*	26*	8*	2*	118*
25 Feb 2020	71	8	6	16	6	2	65
26 Feb 2020	71	8	6	16	6	2	65
27 Feb 2020	68*	9*	6*	17*	8*	2*	126*
28 Feb 2020	68*	9*	6*	17*	8*	2*	126*
29 Feb 2020	68*	9*	6*	17*	8*	2*	126*

* 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
05 Feb 2020	IC	IC	IC	IC	IC	IC	IC
10 Feb 2020	IC	IC	IC	IC	IC	IC	IC
18 Feb 2020	E	IC	IC	IC	IC	IC	IC
25 Feb 2020	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.5

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

Date	I19	I24	I25	I26	I32	I39	I40
05 Feb 2020	E	IC	IC	IC	IC	IC	E
10 Feb 2020	IC	E	IC	E	E	IC	E
18 Feb 2020	E	IC	IC	IC	IC	IC	E
25 Feb 2020	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.6

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

Date	I19	I24	I25	I26	I32	I39	I40
05 Feb 2020	E	IC	IC	IC	IC	IC	E
10 Feb 2020	IC	IC	IC	E	E	IC	E
18 Feb 2020	E	IC	IC	IC	IC	IC	E
25 Feb 2020	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.7

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

Date	I19	I24	I25	I26	I32	I39	I40
05 Feb 2020	E	IC	IC	IC	IC	IC	E
10 Feb 2020	IC	IC	IC	E	E	IC	E
18 Feb 2020	E	IC	IC	IC	IC	IC	E
25 Feb 2020	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.8

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

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH
I19	05 Feb 2020	1115	2	4200	600	380e	0.1	14.6	44.47	7.6	33.53	8.1
I19	05 Feb 2020	1115	6	3600e	1000e	520	0.3	14.6	43.57	7.5	33.53	8.1
I19	05 Feb 2020	1115	11	4800	1100	360e	0.2	14.5	36.14	7.4	33.54	8.1
I19	10 Feb 2020	1056	2	2e	<2	<2	1.0	14.8	85.85	7.9	33.45	8.1
I19	10 Feb 2020	1056	6	260e	30e	18e	0.1	14.8	84.64	7.9	33.48	8.1
I19	10 Feb 2020	1056	11	400e	84	58	0.2	14.6	71.53	7.9	33.48	8.1
I19	18 Feb 2020	1048	2	580	260e	340e	0.4	15.1	65.49	8.2	33.39	8.0
I19	18 Feb 2020	1048	6	8200	2400e	640	0.3	14.8	65.54	8.0	33.43	8.0
I19	18 Feb 2020	1048	11	>16000	3800e	1200e	0.2	14.6	54.02	7.6	33.45	8.0
I19	25 Feb 2020	1159	2	130	86	2e	0.7	15.4	61.53	8.1	33.45	8.0
I19	25 Feb 2020	1159	6	940	100e	4e	0.1	14.2	65.86	7.6	33.52	8.0
I19	25 Feb 2020	1159	11	100e	16e	2e	0.2	13.7	68.49	7.2	33.48	8.0
I24	05 Feb 2020	1144	2	2e	<2	2e	1.0	14.7	63.28	7.8	33.56	8.1
I24	05 Feb 2020	1144	6	<2	<2	2e	1.0	14.7	61.91	7.8	33.56	8.1
I24	05 Feb 2020	1144	11	<20	<2	6e	0.1	14.6	59.04	7.7	33.56	8.1
I24	10 Feb 2020	1119	2	600e	520	100e	0.9	14.8	77.81	8.0	33.46	8.1
I24	10 Feb 2020	1119	6	40e	32e	22e	0.8	14.8	81.10	7.9	33.52	8.1
I24	10 Feb 2020	1119	11	60e	22e	20e	0.4	14.7	49.94	7.7	33.51	8.1
I24	18 Feb 2020	1113	2	8e	2e	2e	0.2	15.2	77.33	8.2	33.48	8.1
I24	18 Feb 2020	1113	6	700	120e	66	0.2	14.9	81.35	8.3	33.52	8.1
I24	18 Feb 2020	1113	11	380e	90	8e	0.2	14.3	74.52	7.3	33.53	8.0
I24	25 Feb 2020	1226	2	<2	<2	<2	1.0	15.3	72.55	8.2	33.51	8.1
I24	25 Feb 2020	1226	6	<2	<2	<2	1.0	14.6	77.51	7.9	33.51	8.0
I24	25 Feb 2020	1226	11	<2	<2	<2	1.0	14.3	81.67	7.7	33.51	8.0
I25	05 Feb 2020	1154	2	<2	<2	<2	1.0	14.8	66.92	7.9	33.56	8.1
I25	05 Feb 2020	1154	6	<2	<2	12e	1.0	14.6	63.81	7.8	33.56	8.1
I25	05 Feb 2020	1154	9	<20	<2	14e	0.1	14.6	61.74	7.7	33.55	8.1
I25	10 Feb 2020	1127	2	<200	20e	42	0.1	14.9	76.63	8.0	33.52	8.1
I25	10 Feb 2020	1127	6	60e	6e	10e	0.1	14.8	64.29	7.9	33.53	8.1
I25	10 Feb 2020	1127	9	20e	4e	12e	0.2	14.8	48.96	7.7	33.53	8.1
I25	18 Feb 2020	1121	2	2e	<2	4e	1.0	15.3	76.93	8.2	33.47	8.1
I25	18 Feb 2020	1121	6	14e	6e	2e	0.4	14.8	80.36	8.2	33.53	8.1
I25	18 Feb 2020	1121	9	12e	<2	2e	0.2	14.3	79.44	7.6	33.53	8.0
I25	25 Feb 2020	1239	2	<2	<2	<2	1.0	15.3	72.70	8.3	33.51	8.1
I25	25 Feb 2020	1239	6	<2	<2	<2	1.0	13.9	81.43	7.4	33.52	8.0
I25	25 Feb 2020	1239	9	<2	<2	<2	1.0	13.9	81.84	7.4	33.51	8.0

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH
I26	05 Feb 2020	1206	2	<2	<2	<2	1.0	15.0	68.57	8.0	33.57	8.1
I26	05 Feb 2020	1206	6	<2	<2	4e	1.0	14.7	71.79	8.0	33.55	8.1
I26	05 Feb 2020	1206	9	<2	<2	14e	1.0	14.6	69.64	7.9	33.55	8.1
I26	10 Feb 2020	1137	2	1800e	740	1100	0.4	14.7	76.00	8.0	33.35	8.1
I26	10 Feb 2020	1137	6	2000e	400e	440	0.2	14.8	69.51	7.9	33.48	8.1
I26	10 Feb 2020	1137	9	600e	440	340e	0.7	14.8	67.19	7.7	33.49	8.1
I26	18 Feb 2020	1134	2	10e	12e	24e	1.2	15.2	75.32	8.3	33.50	8.1
I26	18 Feb 2020	1134	6	12e	4e	4e	0.3	14.8	76.59	8.2	33.53	8.1
I26	18 Feb 2020	1134	9	2e	2e	<2	1.0	14.1	75.45	7.4	33.53	8.0
I26	25 Feb 2020	1252	2	<2	<2	<2	1.0	15.3	70.57	8.3	33.51	8.1
I26	25 Feb 2020	1252	6	2e	<2	<2	1.0	13.7	77.67	7.2	33.52	8.0
I26	25 Feb 2020	1252	9	<2	<2	2e	1.0	13.6	79.19	7.1	33.49	8.0
I32	05 Feb 2020	1222	2	<2	<2	<2	1.0	14.9	54.05	7.9	33.57	8.1
I32	05 Feb 2020	1222	6	<2	<2	<2	1.0	14.7	53.45	7.9	33.56	8.1
I32	05 Feb 2020	1222	9	<2	<2	<2	1.0	14.6	56.13	8.0	33.58	8.1
I32	10 Feb 2020	1150	2	200e	84	300e	0.4	14.8	68.90	8.0	33.42	8.1
I32	10 Feb 2020	1150	6	2800e	680	640	0.2	14.8	69.24	7.9	33.46	8.1
I32	10 Feb 2020	1150	9	1800e	860	480	0.5	14.8	69.21	7.9	33.46	8.1
I32	18 Feb 2020	1148	2	<2	<2	<2	1.0	15.3	72.71	8.3	33.55	8.1
I32	18 Feb 2020	1148	6	<2	<2	<2	1.0	14.7	63.29	8.1	33.54	8.0
I32	18 Feb 2020	1148	9	<2	<2	<2	1.0	14.1	59.40	7.4	33.54	8.0
I32	25 Feb 2020	1309	2	<2	<2	<2	1.0	15.4	67.27	8.3	33.51	8.1
I32	25 Feb 2020	1309	6	<2	<2	<2	1.0	14.8	61.54	7.9	33.55	8.0
I32	25 Feb 2020	1309	9	<2	2e	<2	1.0	13.9	46.48	7.3	33.50	8.0
I39	05 Feb 2020	1052	2	<2	<2	4e	1.0	14.8	78.90	7.8	33.55	8.1
I39	05 Feb 2020	1052	12	<2	2e	<2	1.0	14.7	78.42	7.8	33.55	8.1
I39	05 Feb 2020	1052	18	2e	2e	<2	1.0	14.7	78.48	7.7	33.55	8.1
I39	10 Feb 2020	1034	2	<2	<2	<2	1.0	14.8	84.08	7.9	33.44	8.1
I39	10 Feb 2020	1034	12	<2	<2	<2	1.0	14.9	85.58	7.8	33.51	8.1
I39	10 Feb 2020	1034	18	4e	<2	<2	0.5	14.7	82.91	7.5	33.52	8.0
I39	18 Feb 2020	1023	2	<2	<2	<2	1.0	15.1	87.20	8.0	33.52	8.1
I39	18 Feb 2020	1023	12	<2	<2	<2	1.0	13.9	87.25	7.2	33.51	8.0
I39	18 Feb 2020	1023	18	<2	<2	<2	1.0	13.6	85.69	6.8	33.54	7.9
I39	25 Feb 2020	1136	2	<2	<2	<2	1.0	15.2	83.14	8.0	33.52	8.0
I39	25 Feb 2020	1136	12	<2	<2	<2	1.0	14.9	84.97	8.0	33.53	8.0
I39	25 Feb 2020	1136	18	<2	2e	<2	1.0	13.5	85.11	6.9	33.52	7.9
I40	05 Feb 2020	1129	2	1800e	560	880	0.3	14.6	48.81	7.9	33.52	8.1
I40	05 Feb 2020	1129	6	2e	<2	2e	1.0	14.5	45.38	7.8	33.57	8.1
I40	05 Feb 2020	1129	9	20e	8e	4e	0.4	14.3	44.62	8.0	33.59	8.1
I40	10 Feb 2020	1109	2	4200	980	760	0.2	14.6	58.87	8.1	33.41	8.1
I40	10 Feb 2020	1109	6	400	120	48	0.3	14.8	74.43	8.0	33.48	8.1

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH
I40	10 Feb 2020	1109	9	120e	54	24e	0.4	14.7	79.31	7.9	33.51	8.1
I40	18 Feb 2020	1103	2	2000e	400e	1100	0.2	15.2	67.66	8.2	33.33	8.0
I40	18 Feb 2020	1103	6	4400	1100	360e	0.2	14.9	66.02	7.9	33.49	8.0
I40	18 Feb 2020	1103	9	600e	140e	84	0.2	14.3	57.82	6.8	33.54	8.0
I40	25 Feb 2020	1215	2	<2	<2	<2	1.0	15.0	71.12	8.2	33.51	8.0
I40	25 Feb 2020	1215	6	2e	<2	2e	1.0	14.6	72.41	7.8	33.53	8.0
I40	25 Feb 2020	1215	9	22e	4e	14e	0.2	14.2	54.75	7.4	33.53	8.0

ns = not sampled

ND = no data

Table 3.9

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

Station	Date	Parameter	Value
I19	05 Feb 2020	Depth (m)	10
I19	05 Feb 2020	Arrive Time	1115
I19	05 Feb 2020	Depart Time	1119
I19	05 Feb 2020	Air Temp (C)	13
I19	05 Feb 2020	Weather	Partly Cloudy
I19	05 Feb 2020	Visibility (mi)	15
I19	05 Feb 2020	Wind Speed (kts)	7
I19	05 Feb 2020	Wind Dir	NW
I19	05 Feb 2020	Water Color	Bluish-Green
I19	05 Feb 2020	Wave Ht Low (ft)	3
I19	05 Feb 2020	Wave Period (sec)	11
I19	05 Feb 2020	Sea State	Calm
I19	05 Feb 2020	High Tide (ft)	5.28
I19	05 Feb 2020	High Tide Time	541
I19	05 Feb 2020	Low Tide (ft)	-0.5
I19	05 Feb 2020	Low Tide Time	1311
I19	05 Feb 2020	Comments	none
I19	10 Feb 2020	Depth (m)	12
I19	10 Feb 2020	Arrive Time	1056
I19	10 Feb 2020	Depart Time	1100
I19	10 Feb 2020	Air Temp (C)	11
I19	10 Feb 2020	Weather	Rain
I19	10 Feb 2020	Visibility (mi)	2
I19	10 Feb 2020	Wind Speed (kts)	1
I19	10 Feb 2020	Wind Dir	SW
I19	10 Feb 2020	Water Color	Bluish-Green
I19	10 Feb 2020	Wave Ht Low (ft)	4
I19	10 Feb 2020	Wave Period (sec)	16
I19	10 Feb 2020	Sea State	Calm
I19	10 Feb 2020	High Tide (ft)	6.34
I19	10 Feb 2020	High Tide Time	919
I19	10 Feb 2020	Low Tide (ft)	-1.37
I19	10 Feb 2020	Low Tide Time	1616
I19	10 Feb 2020	Comments	none
I19	18 Feb 2020	Depth (m)	9
I19	18 Feb 2020	Arrive Time	1048
I19	18 Feb 2020	Depart Time	1054
I19	18 Feb 2020	Air Temp (C)	14
I19	18 Feb 2020	Weather	Haze
I19	18 Feb 2020	Visibility (mi)	5
I19	18 Feb 2020	Wind Speed (kts)	3
I19	18 Feb 2020	Wind Dir	W
I19	18 Feb 2020	Water Color	Brownish-Green
I19	18 Feb 2020	Wave Ht Low (ft)	2
I19	18 Feb 2020	Wave Period (sec)	9
I19	18 Feb 2020	Sea State	Calm
I19	18 Feb 2020	High Tide (ft)	5.12
I19	18 Feb 2020	High Tide Time	511
I19	18 Feb 2020	Low Tide (ft)	-0.48

Station	Date	Parameter	Value
I19	18 Feb 2020	Low Tide Time	1246
I19	18 Feb 2020	Comments	none
I19	25 Feb 2020	Depth (m)	11
I19	25 Feb 2020	Arrive Time	1159
I19	25 Feb 2020	Depart Time	1208
I19	25 Feb 2020	Air Temp (C)	15
I19	25 Feb 2020	Weather	Haze
I19	25 Feb 2020	Visibility (mi)	10
I19	25 Feb 2020	Wind Speed (kts)	0
I19	25 Feb 2020	Wind Dir	
I19	25 Feb 2020	Water Color	Brownish-Green
I19	25 Feb 2020	Wave Ht Low (ft)	2
I19	25 Feb 2020	Wave Period (sec)	11
I19	25 Feb 2020	Sea State	Light chop
I19	25 Feb 2020	High Tide (ft)	4.99
I19	25 Feb 2020	High Tide Time	938
I19	25 Feb 2020	Low Tide (ft)	-0.1
I19	25 Feb 2020	Low Tide Time	1617
I19	25 Feb 2020	Comments	none
I24	05 Feb 2020	Depth (m)	9
I24	05 Feb 2020	Arrive Time	1144
I24	05 Feb 2020	Depart Time	1148
I24	05 Feb 2020	Air Temp (C)	13
I24	05 Feb 2020	Weather	Partly Cloudy
I24	05 Feb 2020	Visibility (mi)	15
I24	05 Feb 2020	Wind Speed (kts)	1
I24	05 Feb 2020	Wind Dir	W
I24	05 Feb 2020	Water Color	Bluish-Green
I24	05 Feb 2020	Wave Ht Low (ft)	3
I24	05 Feb 2020	Wave Period (sec)	11
I24	05 Feb 2020	Sea State	Calm
I24	05 Feb 2020	High Tide (ft)	5.28
I24	05 Feb 2020	High Tide Time	541
I24	05 Feb 2020	Low Tide (ft)	-0.5
I24	05 Feb 2020	Low Tide Time	1311
I24	05 Feb 2020	Comments	none
I24	10 Feb 2020	Depth (m)	12
I24	10 Feb 2020	Arrive Time	1119
I24	10 Feb 2020	Depart Time	1123
I24	10 Feb 2020	Air Temp (C)	11
I24	10 Feb 2020	Weather	Rain
I24	10 Feb 2020	Visibility (mi)	2
I24	10 Feb 2020	Wind Speed (kts)	10
I24	10 Feb 2020	Wind Dir	SW
I24	10 Feb 2020	Water Color	Bluish-Green
I24	10 Feb 2020	Wave Ht Low (ft)	4
I24	10 Feb 2020	Wave Period (sec)	16
I24	10 Feb 2020	Sea State	Calm
I24	10 Feb 2020	High Tide (ft)	6.34
I24	10 Feb 2020	High Tide Time	919
I24	10 Feb 2020	Low Tide (ft)	-1.37
I24	10 Feb 2020	Low Tide Time	1616

Station	Date	Parameter	Value
I24	10 Feb 2020	Comments	none
I24	18 Feb 2020	Depth (m)	10
I24	18 Feb 2020	Arrive Time	1113
I24	18 Feb 2020	Depart Time	1118
I24	18 Feb 2020	Air Temp (C)	13
I24	18 Feb 2020	Weather	Haze
I24	18 Feb 2020	Visibility (mi)	5
I24	18 Feb 2020	Wind Speed (kts)	2
I24	18 Feb 2020	Wind Dir	W
I24	18 Feb 2020	Water Color	Brownish-Green
I24	18 Feb 2020	Wave Ht Low (ft)	2
I24	18 Feb 2020	Wave Period (sec)	9
I24	18 Feb 2020	Sea State	Calm
I24	18 Feb 2020	High Tide (ft)	5.12
I24	18 Feb 2020	High Tide Time	511
I24	18 Feb 2020	Low Tide (ft)	-0.48
I24	18 Feb 2020	Low Tide Time	1246
I24	18 Feb 2020	Comments	
I24	25 Feb 2020	Depth (m)	11
I24	25 Feb 2020	Arrive Time	1226
I24	25 Feb 2020	Depart Time	1233
I24	25 Feb 2020	Air Temp (C)	15
I24	25 Feb 2020	Weather	Haze
I24	25 Feb 2020	Visibility (mi)	10
I24	25 Feb 2020	Wind Speed (kts)	14
I24	25 Feb 2020	Wind Dir	NW
I24	25 Feb 2020	Water Color	Green
I24	25 Feb 2020	Wave Ht Low (ft)	2
I24	25 Feb 2020	Wave Period (sec)	11
I24	25 Feb 2020	Sea State	Light chop
I24	25 Feb 2020	High Tide (ft)	4.99
I24	25 Feb 2020	High Tide Time	938
I24	25 Feb 2020	Low Tide (ft)	-0.1
I24	25 Feb 2020	Low Tide Time	1617
I24	25 Feb 2020	Comments	none
I25	05 Feb 2020	Depth (m)	8
I25	05 Feb 2020	Arrive Time	1154
I25	05 Feb 2020	Depart Time	1158
I25	05 Feb 2020	Air Temp (C)	13
I25	05 Feb 2020	Weather	Partly Cloudy
I25	05 Feb 2020	Visibility (mi)	15
I25	05 Feb 2020	Wind Speed (kts)	3
I25	05 Feb 2020	Wind Dir	SW
I25	05 Feb 2020	Water Color	Bluish-Green
I25	05 Feb 2020	Wave Ht Low (ft)	3
I25	05 Feb 2020	Wave Period (sec)	11
I25	05 Feb 2020	Sea State	Calm
I25	05 Feb 2020	High Tide (ft)	5.28
I25	05 Feb 2020	High Tide Time	541
I25	05 Feb 2020	Low Tide (ft)	-0.5
I25	05 Feb 2020	Low Tide Time	1311
I25	05 Feb 2020	Comments	none

Station	Date	Parameter	Value
I25	10 Feb 2020	Depth (m)	10
I25	10 Feb 2020	Arrive Time	1127
I25	10 Feb 2020	Depart Time	1131
I25	10 Feb 2020	Air Temp (C)	11
I25	10 Feb 2020	Weather	Rain
I25	10 Feb 2020	Visibility (mi)	2
I25	10 Feb 2020	Wind Speed (kts)	3
I25	10 Feb 2020	Wind Dir	E
I25	10 Feb 2020	Water Color	Bluish-Green
I25	10 Feb 2020	Wave Ht Low (ft)	2
I25	10 Feb 2020	Wave Period (sec)	16
I25	10 Feb 2020	Sea State	Calm
I25	10 Feb 2020	High Tide (ft)	6.34
I25	10 Feb 2020	High Tide Time	919
I25	10 Feb 2020	Low Tide (ft)	-1.37
I25	10 Feb 2020	Low Tide Time	1616
I25	10 Feb 2020	Comments	none
I25	18 Feb 2020	Depth (m)	10
I25	18 Feb 2020	Arrive Time	1121
I25	18 Feb 2020	Depart Time	1128
I25	18 Feb 2020	Air Temp (C)	13
I25	18 Feb 2020	Weather	Haze
I25	18 Feb 2020	Visibility (mi)	5
I25	18 Feb 2020	Wind Speed (kts)	5
I25	18 Feb 2020	Wind Dir	W
I25	18 Feb 2020	Water Color	Brownish-Green
I25	18 Feb 2020	Wave Ht Low (ft)	2
I25	18 Feb 2020	Wave Period (sec)	9
I25	18 Feb 2020	Sea State	Calm
I25	18 Feb 2020	High Tide (ft)	5.12
I25	18 Feb 2020	High Tide Time	511
I25	18 Feb 2020	Low Tide (ft)	-0.48
I25	18 Feb 2020	Low Tide Time	1246
I25	18 Feb 2020	Comments	none
I25	25 Feb 2020	Depth (m)	9
I25	25 Feb 2020	Arrive Time	1239
I25	25 Feb 2020	Depart Time	1245
I25	25 Feb 2020	Air Temp (C)	15
I25	25 Feb 2020	Weather	Haze
I25	25 Feb 2020	Visibility (mi)	10
I25	25 Feb 2020	Wind Speed (kts)	11
I25	25 Feb 2020	Wind Dir	NW
I25	25 Feb 2020	Water Color	Green
I25	25 Feb 2020	Wave Ht Low (ft)	2
I25	25 Feb 2020	Wave Period (sec)	11
I25	25 Feb 2020	Sea State	Light chop
I25	25 Feb 2020	High Tide (ft)	4.99
I25	25 Feb 2020	High Tide Time	938
I25	25 Feb 2020	Low Tide (ft)	-0.1
I25	25 Feb 2020	Low Tide Time	1617
I25	25 Feb 2020	Comments	none

Station	Date	Parameter	Value
I26	05 Feb 2020	Depth (m)	8
I26	05 Feb 2020	Arrive Time	1206
I26	05 Feb 2020	Depart Time	1210
I26	05 Feb 2020	Air Temp (C)	13
I26	05 Feb 2020	Weather	Partly Cloudy
I26	05 Feb 2020	Visibility (mi)	15
I26	05 Feb 2020	Wind Speed (kts)	4
I26	05 Feb 2020	Wind Dir	SW
I26	05 Feb 2020	Water Color	Bluish-Green
I26	05 Feb 2020	Wave Ht Low (ft)	3
I26	05 Feb 2020	Wave Period (sec)	11
I26	05 Feb 2020	Sea State	Calm
I26	05 Feb 2020	High Tide (ft)	5.28
I26	05 Feb 2020	High Tide Time	541
I26	05 Feb 2020	Low Tide (ft)	-0.5
I26	05 Feb 2020	Low Tide Time	1311
I26	05 Feb 2020	Comments	none
I26	10 Feb 2020	Depth (m)	10
I26	10 Feb 2020	Arrive Time	1137
I26	10 Feb 2020	Depart Time	1141
I26	10 Feb 2020	Air Temp (C)	11
I26	10 Feb 2020	Weather	Rain
I26	10 Feb 2020	Visibility (mi)	2
I26	10 Feb 2020	Wind Speed (kts)	5
I26	10 Feb 2020	Wind Dir	S
I26	10 Feb 2020	Water Color	Bluish-Green
I26	10 Feb 2020	Wave Ht Low (ft)	2
I26	10 Feb 2020	Wave Period (sec)	16
I26	10 Feb 2020	Sea State	Calm
I26	10 Feb 2020	High Tide (ft)	6.34
I26	10 Feb 2020	High Tide Time	919
I26	10 Feb 2020	Low Tide (ft)	-1.37
I26	10 Feb 2020	Low Tide Time	1616
I26	10 Feb 2020	Comments	Freshwater lens
I26	18 Feb 2020	Depth (m)	10
I26	18 Feb 2020	Arrive Time	1134
I26	18 Feb 2020	Depart Time	1140
I26	18 Feb 2020	Air Temp (C)	14
I26	18 Feb 2020	Weather	Haze
I26	18 Feb 2020	Visibility (mi)	5
I26	18 Feb 2020	Wind Speed (kts)	6
I26	18 Feb 2020	Wind Dir	W
I26	18 Feb 2020	Water Color	Brownish-Green
I26	18 Feb 2020	Wave Ht Low (ft)	2
I26	18 Feb 2020	Wave Period (sec)	9
I26	18 Feb 2020	Sea State	Calm
I26	18 Feb 2020	High Tide (ft)	5.12
I26	18 Feb 2020	High Tide Time	511
I26	18 Feb 2020	Low Tide (ft)	-0.48
I26	18 Feb 2020	Low Tide Time	1246
I26	18 Feb 2020	Comments	none
I26	25 Feb 2020	Depth (m)	9

Station	Date	Parameter	Value
I26	25 Feb 2020	Arrive Time	1252
I26	25 Feb 2020	Depart Time	1259
I26	25 Feb 2020	Air Temp (C)	15
I26	25 Feb 2020	Weather	Haze
I26	25 Feb 2020	Visibility (mi)	10
I26	25 Feb 2020	Wind Speed (kts)	14
I26	25 Feb 2020	Wind Dir	NW
I26	25 Feb 2020	Water Color	Green
I26	25 Feb 2020	Wave Ht Low (ft)	2
I26	25 Feb 2020	Wave Period (sec)	11
I26	25 Feb 2020	Sea State	Light chop
I26	25 Feb 2020	High Tide (ft)	4.99
I26	25 Feb 2020	High Tide Time	938
I26	25 Feb 2020	Low Tide (ft)	-0.1
I26	25 Feb 2020	Low Tide Time	1617
I26	25 Feb 2020	Comments	none
I32	05 Feb 2020	Depth (m)	9
I32	05 Feb 2020	Arrive Time	1222
I32	05 Feb 2020	Depart Time	1226
I32	05 Feb 2020	Air Temp (C)	13
I32	05 Feb 2020	Weather	Partly Cloudy
I32	05 Feb 2020	Visibility (mi)	15
I32	05 Feb 2020	Wind Speed (kts)	5
I32	05 Feb 2020	Wind Dir	W
I32	05 Feb 2020	Water Color	Bluish-Green
I32	05 Feb 2020	Wave Ht Low (ft)	3
I32	05 Feb 2020	Wave Period (sec)	11
I32	05 Feb 2020	Sea State	Calm
I32	05 Feb 2020	High Tide (ft)	5.28
I32	05 Feb 2020	High Tide Time	541
I32	05 Feb 2020	Low Tide (ft)	-0.5
I32	05 Feb 2020	Low Tide Time	1311
I32	05 Feb 2020	Comments	none
I32	10 Feb 2020	Depth (m)	10
I32	10 Feb 2020	Arrive Time	1150
I32	10 Feb 2020	Depart Time	1158
I32	10 Feb 2020	Air Temp (C)	11
I32	10 Feb 2020	Weather	Rain
I32	10 Feb 2020	Visibility (mi)	2
I32	10 Feb 2020	Wind Speed (kts)	6
I32	10 Feb 2020	Wind Dir	W
I32	10 Feb 2020	Water Color	Bluish-Green
I32	10 Feb 2020	Wave Ht Low (ft)	2
I32	10 Feb 2020	Wave Period (sec)	16
I32	10 Feb 2020	Sea State	Calm
I32	10 Feb 2020	High Tide (ft)	6.34
I32	10 Feb 2020	High Tide Time	919
I32	10 Feb 2020	Low Tide (ft)	-1.37
I32	10 Feb 2020	Low Tide Time	1616
I32	10 Feb 2020	Comments	none
I32	18 Feb 2020	Depth (m)	9
I32	18 Feb 2020	Arrive Time	1148

Station	Date	Parameter	Value
I32	18 Feb 2020	Depart Time	1205
I32	18 Feb 2020	Air Temp (C)	14
I32	18 Feb 2020	Weather	Haze
I32	18 Feb 2020	Visibility (mi)	5
I32	18 Feb 2020	Wind Speed (kts)	4
I32	18 Feb 2020	Wind Dir	W
I32	18 Feb 2020	Water Color	Brownish-Green
I32	18 Feb 2020	Wave Ht Low (ft)	2
I32	18 Feb 2020	Wave Period (sec)	9
I32	18 Feb 2020	Sea State	Calm
I32	18 Feb 2020	High Tide (ft)	5.12
I32	18 Feb 2020	High Tide Time	511
I32	18 Feb 2020	Low Tide (ft)	-0.48
I32	18 Feb 2020	Low Tide Time	1246
I32	18 Feb 2020	Comments	none
I32	25 Feb 2020	Depth (m)	9
I32	25 Feb 2020	Arrive Time	1309
I32	25 Feb 2020	Depart Time	1315
I32	25 Feb 2020	Air Temp (C)	16
I32	25 Feb 2020	Weather	Haze
I32	25 Feb 2020	Visibility (mi)	10
I32	25 Feb 2020	Wind Speed (kts)	11
I32	25 Feb 2020	Wind Dir	NW
I32	25 Feb 2020	Water Color	Green
I32	25 Feb 2020	Wave Ht Low (ft)	2
I32	25 Feb 2020	Wave Period (sec)	11
I32	25 Feb 2020	Sea State	Light chop
I32	25 Feb 2020	High Tide (ft)	4.99
I32	25 Feb 2020	High Tide Time	938
I32	25 Feb 2020	Low Tide (ft)	-0.1
I32	25 Feb 2020	Low Tide Time	1617
I32	25 Feb 2020	Comments	none
I39	05 Feb 2020	Depth (m)	18
I39	05 Feb 2020	Arrive Time	1052
I39	05 Feb 2020	Depart Time	1056
I39	05 Feb 2020	Air Temp (C)	13
I39	05 Feb 2020	Weather	Partly Cloudy
I39	05 Feb 2020	Visibility (mi)	15
I39	05 Feb 2020	Wind Speed (kts)	1
I39	05 Feb 2020	Wind Dir	NW
I39	05 Feb 2020	Water Color	Bluish-Green
I39	05 Feb 2020	Wave Ht Low (ft)	3
I39	05 Feb 2020	Wave Period (sec)	11
I39	05 Feb 2020	Sea State	Calm
I39	05 Feb 2020	High Tide (ft)	5.28
I39	05 Feb 2020	High Tide Time	541
I39	05 Feb 2020	Low Tide (ft)	-0.5
I39	05 Feb 2020	Low Tide Time	1311
I39	05 Feb 2020	Comments	none
I39	10 Feb 2020	Depth (m)	20
I39	10 Feb 2020	Arrive Time	1034
I39	10 Feb 2020	Depart Time	1039

Station	Date	Parameter	Value
I39	10 Feb 2020	Air Temp (C)	11
I39	10 Feb 2020	Weather	Rain
I39	10 Feb 2020	Visibility (mi)	2
I39	10 Feb 2020	Wind Speed (kts)	2
I39	10 Feb 2020	Wind Dir	SE
I39	10 Feb 2020	Water Color	Bluish-Green
I39	10 Feb 2020	Wave Ht Low (ft)	4
I39	10 Feb 2020	Wave Period (sec)	16
I39	10 Feb 2020	Sea State	Calm
I39	10 Feb 2020	High Tide (ft)	6.34
I39	10 Feb 2020	High Tide Time	919
I39	10 Feb 2020	Low Tide (ft)	-1.37
I39	10 Feb 2020	Low Tide Time	1616
I39	10 Feb 2020	Comments	none
I39	18 Feb 2020	Depth (m)	18
I39	18 Feb 2020	Arrive Time	1023
I39	18 Feb 2020	Depart Time	1030
I39	18 Feb 2020	Air Temp (C)	13
I39	18 Feb 2020	Weather	Continuous layer of clouds
I39	18 Feb 2020	Visibility (mi)	5
I39	18 Feb 2020	Wind Speed (kts)	2
I39	18 Feb 2020	Wind Dir	SW
I39	18 Feb 2020	Water Color	Brownish-Green
I39	18 Feb 2020	Wave Ht Low (ft)	2
I39	18 Feb 2020	Wave Period (sec)	9
I39	18 Feb 2020	Sea State	Calm
I39	18 Feb 2020	High Tide (ft)	5.12
I39	18 Feb 2020	High Tide Time	511
I39	18 Feb 2020	Low Tide (ft)	-0.48
I39	18 Feb 2020	Low Tide Time	1246
I39	18 Feb 2020	Comments	none
I39	25 Feb 2020	Depth (m)	18
I39	25 Feb 2020	Arrive Time	1136
I39	25 Feb 2020	Depart Time	1143
I39	25 Feb 2020	Air Temp (C)	14
I39	25 Feb 2020	Weather	Haze
I39	25 Feb 2020	Visibility (mi)	10
I39	25 Feb 2020	Wind Speed (kts)	9
I39	25 Feb 2020	Wind Dir	NW
I39	25 Feb 2020	Water Color	Bluish-Green
I39	25 Feb 2020	Wave Ht Low (ft)	2
I39	25 Feb 2020	Wave Period (sec)	11
I39	25 Feb 2020	Sea State	Light chop
I39	25 Feb 2020	High Tide (ft)	4.99
I39	25 Feb 2020	High Tide Time	938
I39	25 Feb 2020	Low Tide (ft)	-0.1
I39	25 Feb 2020	Low Tide Time	1617
I39	25 Feb 2020	Comments	sea lion on station
I40	05 Feb 2020	Depth (m)	9
I40	05 Feb 2020	Arrive Time	1129
I40	05 Feb 2020	Depart Time	1137
I40	05 Feb 2020	Air Temp (C)	13

Station	Date	Parameter	Value
I40	05 Feb 2020	Weather	Partly Cloudy
I40	05 Feb 2020	Visibility (mi)	15
I40	05 Feb 2020	Wind Speed (kts)	4
I40	05 Feb 2020	Wind Dir	W
I40	05 Feb 2020	Water Color	Bluish-Green
I40	05 Feb 2020	Wave Ht Low (ft)	3
I40	05 Feb 2020	Wave Period (sec)	11
I40	05 Feb 2020	Sea State	Calm
I40	05 Feb 2020	High Tide (ft)	5.28
I40	05 Feb 2020	High Tide Time	541
I40	05 Feb 2020	Low Tide (ft)	-0.5
I40	05 Feb 2020	Low Tide Time	1311
I40	05 Feb 2020	Comments	
I40	10 Feb 2020	Depth (m)	12
I40	10 Feb 2020	Arrive Time	1109
I40	10 Feb 2020	Depart Time	1113
I40	10 Feb 2020	Air Temp (C)	11
I40	10 Feb 2020	Weather	Rain
I40	10 Feb 2020	Visibility (mi)	2
I40	10 Feb 2020	Wind Speed (kts)	0
I40	10 Feb 2020	Wind Dir	
I40	10 Feb 2020	Water Color	Bluish-Green
I40	10 Feb 2020	Wave Ht Low (ft)	4
I40	10 Feb 2020	Wave Period (sec)	16
I40	10 Feb 2020	Sea State	Calm
I40	10 Feb 2020	High Tide (ft)	6.34
I40	10 Feb 2020	High Tide Time	919
I40	10 Feb 2020	Low Tide (ft)	-1.37
I40	10 Feb 2020	Low Tide Time	1616
I40	10 Feb 2020	Comments	none
I40	18 Feb 2020	Depth (m)	9
I40	18 Feb 2020	Arrive Time	1103
I40	18 Feb 2020	Depart Time	1107
I40	18 Feb 2020	Air Temp (C)	13
I40	18 Feb 2020	Weather	Haze
I40	18 Feb 2020	Visibility (mi)	5
I40	18 Feb 2020	Wind Speed (kts)	3
I40	18 Feb 2020	Wind Dir	NW
I40	18 Feb 2020	Water Color	Brownish-Green
I40	18 Feb 2020	Wave Ht Low (ft)	2
I40	18 Feb 2020	Wave Period (sec)	9
I40	18 Feb 2020	Sea State	Calm
I40	18 Feb 2020	High Tide (ft)	5.12
I40	18 Feb 2020	High Tide Time	511
I40	18 Feb 2020	Low Tide (ft)	-0.48
I40	18 Feb 2020	Low Tide Time	1246
I40	18 Feb 2020	Comments	Sweage-like odor
I40	25 Feb 2020	Depth (m)	9
I40	25 Feb 2020	Arrive Time	1215
I40	25 Feb 2020	Depart Time	1221
I40	25 Feb 2020	Air Temp (C)	15
I40	25 Feb 2020	Weather	Haze

Station	Date	Parameter	Value
I40	25 Feb 2020	Visibility (mi)	10
I40	25 Feb 2020	Wind Speed (kts)	6
I40	25 Feb 2020	Wind Dir	NW
I40	25 Feb 2020	Water Color	Brownish-Green
I40	25 Feb 2020	Wave Ht Low (ft)	2
I40	25 Feb 2020	Wave Period (sec)	11
I40	25 Feb 2020	Sea State	Light chop
I40	25 Feb 2020	High Tide (ft)	4.99
I40	25 Feb 2020	High Tide Time	938
I40	25 Feb 2020	Low Tide (ft)	-0.1
I40	25 Feb 2020	Low Tide Time	1617
I40	25 Feb 2020	Comments	none

Table 3.10

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

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I19	05 Feb 2020	1	14.60	45.05	7.6	33.52	8.1	24.9	1.67
I19	05 Feb 2020	2	14.59	44.47	7.6	33.53	8.1	24.9	1.67
I19	05 Feb 2020	3	14.60	44.02	7.6	33.53	8.1	24.9	1.63
I19	05 Feb 2020	4	14.58	43.35	7.6	33.53	8.1	24.9	1.78
I19	05 Feb 2020	5	14.56	44.04	7.5	33.53	8.1	24.9	2.04
I19	05 Feb 2020	6	14.55	43.57	7.5	33.53	8.1	24.9	2.28
I19	05 Feb 2020	7	14.55	41.75	7.5	33.53	8.1	24.9	2.45
I19	05 Feb 2020	8	14.54	38.80	7.4	33.53	8.1	24.9	2.59
I19	05 Feb 2020	9	14.52	37.42	7.4	33.54	8.1	24.9	2.59
I19	05 Feb 2020	10	14.51	36.14	7.4	33.54	8.1	25.0	2.55
I19	10 Feb 2020	1	14.79	85.84	7.9	33.45	8.1	24.8	1.27
I19	10 Feb 2020	2	14.81	85.85	7.9	33.45	8.1	24.8	1.33
I19	10 Feb 2020	3	14.87	85.74	7.9	33.47	8.1	24.8	1.31
I19	10 Feb 2020	4	14.86	85.65	7.9	33.49	8.1	24.8	1.33
I19	10 Feb 2020	5	14.82	85.15	7.9	33.49	8.1	24.8	1.44
I19	10 Feb 2020	6	14.76	84.64	7.9	33.48	8.1	24.9	1.70
I19	10 Feb 2020	7	14.59	82.08	7.9	33.46	8.1	24.9	1.96
I19	10 Feb 2020	8	14.59	74.44	8.0	33.44	8.1	24.9	2.30
I19	10 Feb 2020	9	14.65	71.81	7.9	33.47	8.1	24.9	2.75
I19	10 Feb 2020	10	14.60	71.53	7.9	33.48	8.1	24.9	2.90
I19	18 Feb 2020	1	15.14	63.41	8.2	33.35	8.0	24.7	1.64
I19	18 Feb 2020	2	15.08	65.49	8.2	33.39	8.0	24.7	1.81
I19	18 Feb 2020	3	15.07	66.22	8.2	33.40	8.0	24.7	2.06
I19	18 Feb 2020	4	14.93	68.14	8.2	33.45	8.0	24.8	2.27
I19	18 Feb 2020	5	14.83	69.43	8.1	33.44	8.0	24.8	2.85
I19	18 Feb 2020	6	14.82	65.54	8.0	33.43	8.0	24.8	3.42
I19	18 Feb 2020	7	14.84	59.25	8.0	33.43	8.0	24.8	3.70
I19	18 Feb 2020	8	14.77	57.25	8.0	33.43	8.0	24.8	3.74
I19	18 Feb 2020	9	14.67	56.59	7.8	33.43	8.0	24.8	3.69
I19	18 Feb 2020	10	14.55	54.02	7.6	33.45	8.0	24.9	3.55
I19	25 Feb 2020	1	15.47	60.99	8.1	33.45	8.0	24.7	0.98
I19	25 Feb 2020	2	15.42	61.53	8.1	33.45	8.0	24.7	1.01
I19	25 Feb 2020	3	15.17	60.86	8.0	33.49	8.0	24.8	1.16
I19	25 Feb 2020	4	14.99	56.58	8.0	33.49	8.0	24.8	1.61
I19	25 Feb 2020	5	14.58	54.31	7.8	33.51	8.0	24.9	2.06
I19	25 Feb 2020	6	14.24	65.86	7.6	33.52	8.0	25.0	2.69
I19	25 Feb 2020	7	14.06	75.33	7.5	33.52	8.0	25.0	2.87
I19	25 Feb 2020	8	13.76	79.05	7.4	33.50	8.0	25.1	2.61
I19	25 Feb 2020	9	13.65	80.16	7.2	33.49	8.0	25.1	2.43
I19	25 Feb 2020	10	13.66	68.49	7.2	33.48	8.0	25.1	2.73
I24	05 Feb 2020	1	14.79	63.63	7.9	33.56	8.1	24.9	1.10
I24	05 Feb 2020	2	14.74	63.28	7.8	33.56	8.1	24.9	1.15
I24	05 Feb 2020	3	14.70	62.89	7.8	33.56	8.1	24.9	1.24
I24	05 Feb 2020	4	14.69	62.47	7.8	33.56	8.1	24.9	1.39
I24	05 Feb 2020	5	14.68	61.99	7.8	33.56	8.1	24.9	1.68
I24	05 Feb 2020	6	14.67	61.91	7.8	33.56	8.1	24.9	1.93
I24	05 Feb 2020	7	14.66	61.34	7.8	33.56	8.1	24.9	2.22

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I24	05 Feb 2020	8	14.66	60.26	7.8	33.56	8.1	24.9	2.26
I24	05 Feb 2020	9	14.65	59.77	7.8	33.56	8.1	24.9	2.43
I24	05 Feb 2020	10	14.64	59.04	7.7	33.56	8.1	24.9	2.55
I24	10 Feb 2020	1	14.70	77.13	8.0	33.44	8.1	24.8	2.66
I24	10 Feb 2020	2	14.76	77.81	8.0	33.46	8.1	24.8	2.73
I24	10 Feb 2020	3	14.80	79.05	7.9	33.48	8.1	24.8	2.73
I24	10 Feb 2020	4	14.82	80.02	7.9	33.50	8.1	24.9	2.74
I24	10 Feb 2020	5	14.83	80.36	7.9	33.50	8.1	24.9	2.66
I24	10 Feb 2020	6	14.79	81.10	7.9	33.52	8.1	24.9	2.49
I24	10 Feb 2020	7	14.71	79.31	7.9	33.51	8.1	24.9	2.60
I24	10 Feb 2020	8	14.72	68.19	7.9	33.51	8.1	24.9	2.59
I24	10 Feb 2020	9	14.72	56.49	7.8	33.51	8.1	24.9	2.80
I24	10 Feb 2020	10	14.72	54.04	7.8	33.51	8.1	24.9	2.80
I24	10 Feb 2020	11	14.72	49.94	7.7	33.51	8.1	24.9	2.75
I24	18 Feb 2020	1	15.41	77.23	8.2	33.44	8.0	24.7	1.02
I24	18 Feb 2020	2	15.21	77.33	8.2	33.48	8.1	24.8	1.09
I24	18 Feb 2020	3	15.03	78.34	8.2	33.49	8.1	24.8	1.19
I24	18 Feb 2020	4	15.02	79.79	8.2	33.50	8.1	24.8	1.44
I24	18 Feb 2020	5	14.94	81.62	8.2	33.52	8.1	24.8	1.68
I24	18 Feb 2020	6	14.92	81.35	8.3	33.52	8.1	24.8	1.89
I24	18 Feb 2020	7	14.90	79.55	8.2	33.52	8.1	24.9	2.41
I24	18 Feb 2020	8	14.64	77.10	7.8	33.56	8.1	24.9	2.90
I24	18 Feb 2020	9	14.28	76.69	7.3	33.54	8.0	25.0	2.87
I24	18 Feb 2020	10	14.29	74.52	7.3	33.53	8.0	25.0	2.45
I24	25 Feb 2020	1	15.31	72.54	8.3	33.51	8.1	24.8	1.02
I24	25 Feb 2020	2	15.34	72.55	8.2	33.51	8.1	24.7	1.04
I24	25 Feb 2020	3	15.29	72.77	8.2	33.52	8.1	24.8	1.02
I24	25 Feb 2020	4	14.86	73.49	8.1	33.54	8.0	24.9	1.11
I24	25 Feb 2020	5	14.71	75.48	8.1	33.52	8.0	24.9	1.42
I24	25 Feb 2020	6	14.60	77.51	7.9	33.51	8.0	24.9	1.63
I24	25 Feb 2020	7	14.50	79.49	7.8	33.52	8.0	24.9	1.87
I24	25 Feb 2020	8	14.46	80.99	7.8	33.52	8.0	24.9	1.93
I24	25 Feb 2020	9	14.36	81.56	7.7	33.52	8.0	25.0	1.93
I24	25 Feb 2020	10	14.35	81.52	7.7	33.51	8.0	25.0	2.03
I24	25 Feb 2020	11	14.35	81.67	7.7	33.51	8.0	25.0	1.93
I25	05 Feb 2020	1	14.88	67.48	7.9	33.56	8.1	24.9	1.06
I25	05 Feb 2020	2	14.85	66.92	7.9	33.56	8.1	24.9	1.11
I25	05 Feb 2020	3	14.82	67.20	7.9	33.56	8.1	24.9	1.15
I25	05 Feb 2020	4	14.68	66.68	7.9	33.57	8.1	24.9	1.22
I25	05 Feb 2020	5	14.66	64.82	7.9	33.56	8.1	24.9	1.32
I25	05 Feb 2020	6	14.64	63.81	7.8	33.56	8.1	24.9	1.73
I25	05 Feb 2020	7	14.64	62.03	7.8	33.55	8.1	24.9	2.15
I25	05 Feb 2020	8	14.63	62.34	7.8	33.55	8.1	24.9	2.56
I25	05 Feb 2020	9	14.63	61.74	7.7	33.55	8.1	24.9	2.53
I25	10 Feb 2020	1	14.90	77.09	8.0	33.50	8.1	24.8	2.34
I25	10 Feb 2020	2	14.90	76.63	8.0	33.52	8.1	24.9	2.33
I25	10 Feb 2020	3	14.90	75.98	8.0	33.52	8.1	24.9	2.35
I25	10 Feb 2020	4	14.87	74.62	8.0	33.53	8.1	24.9	2.46
I25	10 Feb 2020	5	14.82	72.13	7.9	33.53	8.1	24.9	2.56
I25	10 Feb 2020	6	14.79	64.29	7.9	33.53	8.1	24.9	2.75

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I25	10 Feb 2020	7	14.79	55.62	7.8	33.53	8.1	24.9	2.92
I25	10 Feb 2020	8	14.80	51.95	7.8	33.53	8.1	24.9	2.95
I25	10 Feb 2020	9	14.80	48.96	7.7	33.53	8.1	24.9	2.87
I25	18 Feb 2020	1	15.32	75.75	8.3	33.46	8.1	24.7	1.06
I25	18 Feb 2020	2	15.31	76.93	8.2	33.47	8.1	24.7	1.10
I25	18 Feb 2020	3	15.09	77.77	8.2	33.50	8.1	24.8	1.10
I25	18 Feb 2020	4	15.02	80.19	8.2	33.50	8.1	24.8	1.32
I25	18 Feb 2020	5	14.92	81.40	8.2	33.52	8.1	24.9	1.54
I25	18 Feb 2020	6	14.83	80.36	8.2	33.53	8.1	24.9	1.84
I25	18 Feb 2020	7	14.50	78.49	8.0	33.55	8.0	25.0	2.41
I25	18 Feb 2020	8	14.42	78.94	7.7	33.54	8.0	25.0	2.51
I25	18 Feb 2020	9	14.29	79.44	7.6	33.53	8.0	25.0	2.40
I25	25 Feb 2020	1	15.34	72.86	8.3	33.51	8.1	24.7	1.01
I25	25 Feb 2020	2	15.30	72.70	8.3	33.51	8.1	24.8	1.03
I25	25 Feb 2020	3	15.13	72.64	8.1	33.53	8.1	24.8	1.07
I25	25 Feb 2020	4	14.45	75.20	7.9	33.53	8.0	25.0	1.19
I25	25 Feb 2020	5	14.30	79.45	7.7	33.53	8.0	25.0	1.38
I25	25 Feb 2020	6	13.95	81.43	7.4	33.52	8.0	25.1	1.38
I25	25 Feb 2020	7	13.93	82.12	7.4	33.51	8.0	25.0	1.46
I25	25 Feb 2020	8	13.93	82.03	7.4	33.51	8.0	25.0	1.47
I25	25 Feb 2020	9	13.94	81.84	7.4	33.51	8.0	25.0	1.52
I26	05 Feb 2020	1	15.09	67.50	8.0	33.56	8.1	24.8	0.84
I26	05 Feb 2020	2	15.03	68.57	8.0	33.57	8.1	24.9	0.87
I26	05 Feb 2020	3	14.79	68.71	8.0	33.59	8.1	24.9	0.92
I26	05 Feb 2020	4	14.68	69.27	8.0	33.57	8.1	24.9	1.14
I26	05 Feb 2020	5	14.66	71.46	8.0	33.56	8.1	24.9	1.58
I26	05 Feb 2020	6	14.66	71.79	8.0	33.55	8.1	24.9	2.02
I26	05 Feb 2020	7	14.65	71.31	7.9	33.55	8.1	24.9	2.32
I26	05 Feb 2020	8	14.65	69.64	7.9	33.55	8.1	24.9	2.64
I26	10 Feb 2020	1	14.62	75.94	8.0	33.27	8.1	24.7	1.71
I26	10 Feb 2020	2	14.74	76.00	8.0	33.35	8.1	24.8	1.80
I26	10 Feb 2020	3	14.81	74.82	8.0	33.47	8.1	24.8	1.96
I26	10 Feb 2020	4	14.79	72.27	7.9	33.48	8.1	24.8	2.27
I26	10 Feb 2020	5	14.79	70.32	7.9	33.48	8.1	24.8	2.42
I26	10 Feb 2020	6	14.78	69.51	7.9	33.48	8.1	24.8	2.51
I26	10 Feb 2020	7	14.78	68.76	7.9	33.48	8.1	24.9	2.68
I26	10 Feb 2020	8	14.77	68.07	7.8	33.49	8.1	24.9	2.59
I26	10 Feb 2020	9	14.77	67.19	7.7	33.49	8.1	24.9	2.40
I26	18 Feb 2020	1	15.47	75.35	8.3	33.45	8.1	24.7	0.93
I26	18 Feb 2020	2	15.16	75.32	8.3	33.50	8.1	24.8	0.95
I26	18 Feb 2020	3	15.02	76.60	8.4	33.53	8.1	24.8	1.08
I26	18 Feb 2020	4	14.92	76.74	8.3	33.53	8.1	24.9	1.32
I26	18 Feb 2020	5	14.82	76.58	8.3	33.53	8.1	24.9	1.81
I26	18 Feb 2020	6	14.76	76.59	8.2	33.53	8.1	24.9	2.36
I26	18 Feb 2020	7	14.26	76.52	7.7	33.59	8.0	25.0	2.78
I26	18 Feb 2020	8	14.06	76.68	7.4	33.54	8.0	25.0	2.57
I26	18 Feb 2020	9	14.06	75.45	7.4	33.53	8.0	25.0	2.16
I26	25 Feb 2020	1	15.34	71.55	8.3	33.51	8.1	24.7	1.08
I26	25 Feb 2020	2	15.32	70.57	8.3	33.51	8.1	24.8	1.04

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I26	25 Feb 2020	3	15.24	71.73	8.2	33.51	8.1	24.8	1.11
I26	25 Feb 2020	4	14.33	72.16	7.8	33.61	8.0	25.0	1.20
I26	25 Feb 2020	5	13.79	76.23	7.4	33.52	8.0	25.1	1.48
I26	25 Feb 2020	6	13.67	77.67	7.2	33.52	8.0	25.1	1.52
I26	25 Feb 2020	7	13.64	79.16	7.2	33.50	8.0	25.1	1.48
I26	25 Feb 2020	8	13.62	79.20	7.1	33.49	8.0	25.1	1.61
I26	25 Feb 2020	9	13.64	79.19	7.1	33.49	8.0	25.1	1.75
I32	05 Feb 2020	1	14.99	55.10	7.9	33.55	8.1	24.9	1.53
I32	05 Feb 2020	2	14.91	54.05	7.9	33.57	8.1	24.9	1.58
I32	05 Feb 2020	3	14.81	52.70	7.9	33.56	8.1	24.9	1.65
I32	05 Feb 2020	4	14.79	52.48	7.9	33.56	8.1	24.9	2.00
I32	05 Feb 2020	5	14.77	52.79	7.9	33.56	8.1	24.9	2.51
I32	05 Feb 2020	6	14.73	53.45	7.9	33.56	8.1	24.9	2.84
I32	05 Feb 2020	7	14.68	54.44	7.9	33.57	8.1	24.9	2.97
I32	05 Feb 2020	8	14.60	55.80	7.9	33.58	8.1	25.0	3.13
I32	05 Feb 2020	9	14.55	56.13	8.0	33.58	8.1	25.0	3.11
I32	10 Feb 2020	1	14.78	69.17	8.0	33.41	8.1	24.8	3.27
I32	10 Feb 2020	2	14.81	68.90	8.0	33.42	8.1	24.8	3.50
I32	10 Feb 2020	3	14.85	69.19	8.0	33.45	8.1	24.8	3.51
I32	10 Feb 2020	4	14.84	69.78	7.9	33.46	8.1	24.8	3.27
I32	10 Feb 2020	5	14.84	69.58	7.9	33.46	8.1	24.8	2.98
I32	10 Feb 2020	6	14.84	69.24	7.9	33.46	8.1	24.8	2.89
I32	10 Feb 2020	7	14.83	69.22	7.9	33.46	8.1	24.8	2.97
I32	10 Feb 2020	8	14.83	69.23	7.9	33.46	8.1	24.8	2.82
I32	10 Feb 2020	9	14.83	69.21	7.9	33.46	8.1	24.8	2.73
I32	10 Feb 2020	10	14.84	68.86	7.9	33.46	8.1	24.8	2.73
I32	18 Feb 2020	1	15.55	72.83	8.3	33.53	8.1	24.7	1.02
I32	18 Feb 2020	2	15.30	72.71	8.3	33.55	8.1	24.8	1.05
I32	18 Feb 2020	3	15.14	70.29	8.3	33.54	8.1	24.8	1.45
I32	18 Feb 2020	4	15.04	65.72	8.2	33.54	8.1	24.8	2.54
I32	18 Feb 2020	5	14.84	64.25	8.2	33.55	8.0	24.9	3.16
I32	18 Feb 2020	6	14.71	63.29	8.1	33.54	8.0	24.9	3.50
I32	18 Feb 2020	7	14.49	64.90	7.8	33.56	8.0	25.0	3.84
I32	18 Feb 2020	8	14.22	60.21	7.5	33.55	8.0	25.0	4.20
I32	18 Feb 2020	9	14.09	59.40	7.4	33.54	8.0	25.0	4.36
I32	25 Feb 2020	1	15.39	67.40	8.2	33.51	8.1	24.7	1.13
I32	25 Feb 2020	2	15.37	67.27	8.3	33.51	8.1	24.7	1.17
I32	25 Feb 2020	3	15.33	66.68	8.3	33.51	8.1	24.8	1.25
I32	25 Feb 2020	4	15.31	66.11	8.2	33.52	8.0	24.8	1.49
I32	25 Feb 2020	5	15.09	64.88	8.1	33.54	8.0	24.8	1.78
I32	25 Feb 2020	6	14.83	61.54	7.9	33.55	8.0	24.9	2.19
I32	25 Feb 2020	7	14.31	55.49	7.6	33.55	8.0	25.0	2.81
I32	25 Feb 2020	8	14.03	51.04	7.3	33.53	8.0	25.0	3.66
I32	25 Feb 2020	9	13.87	46.48	7.3	33.50	8.0	25.1	4.39
I39	05 Feb 2020	1	14.80	79.35	7.8	33.55	8.1	24.9	0.97
I39	05 Feb 2020	2	14.79	78.90	7.8	33.55	8.1	24.9	0.98
I39	05 Feb 2020	3	14.77	79.30	7.8	33.55	8.1	24.9	1.00
I39	05 Feb 2020	4	14.76	79.26	7.8	33.55	8.1	24.9	1.02
I39	05 Feb 2020	5	14.74	78.88	7.8	33.55	8.1	24.9	1.09
I39	05 Feb 2020	6	14.73	78.49	7.8	33.55	8.1	24.9	1.28

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I39	05 Feb 2020	7	14.73	78.37	7.8	33.55	8.1	24.9	1.61
I39	05 Feb 2020	8	14.73	78.35	7.8	33.55	8.1	24.9	2.03
I39	05 Feb 2020	9	14.73	78.45	7.8	33.55	8.1	24.9	2.41
I39	05 Feb 2020	10	14.73	78.59	7.8	33.55	8.1	24.9	2.56
I39	05 Feb 2020	11	14.73	78.44	7.8	33.55	8.1	24.9	2.64
I39	05 Feb 2020	12	14.72	78.42	7.8	33.55	8.1	24.9	2.58
I39	05 Feb 2020	13	14.72	78.55	7.8	33.55	8.1	24.9	2.76
I39	05 Feb 2020	14	14.72	78.60	7.8	33.55	8.1	24.9	2.80
I39	05 Feb 2020	15	14.72	78.69	7.8	33.55	8.1	24.9	2.84
I39	05 Feb 2020	16	14.72	78.59	7.7	33.55	8.1	24.9	2.84
I39	05 Feb 2020	17	14.72	78.46	7.7	33.55	8.1	24.9	2.79
I39	05 Feb 2020	18	14.72	78.48	7.7	33.55	8.1	24.9	2.86
I39	10 Feb 2020	1	14.77	83.92	7.9	33.42	8.1	24.8	1.69
I39	10 Feb 2020	2	14.80	84.08	7.9	33.44	8.1	24.8	1.64
I39	10 Feb 2020	3	14.86	85.17	7.9	33.47	8.1	24.8	1.66
I39	10 Feb 2020	4	14.86	85.22	7.9	33.49	8.1	24.8	1.82
I39	10 Feb 2020	5	14.86	85.39	7.8	33.49	8.1	24.8	1.89
I39	10 Feb 2020	6	14.86	85.63	7.9	33.49	8.1	24.8	1.93
I39	10 Feb 2020	7	14.85	86.05	7.9	33.49	8.1	24.8	1.98
I39	10 Feb 2020	8	14.85	86.50	7.8	33.50	8.1	24.8	2.02
I39	10 Feb 2020	9	14.84	86.52	7.8	33.50	8.1	24.8	2.08
I39	10 Feb 2020	10	14.84	86.34	7.8	33.50	8.1	24.9	2.15
I39	10 Feb 2020	11	14.84	86.68	7.8	33.50	8.1	24.9	2.10
I39	10 Feb 2020	12	14.86	85.58	7.8	33.51	8.1	24.9	2.22
I39	10 Feb 2020	13	14.87	84.06	7.7	33.51	8.1	24.9	2.14
I39	10 Feb 2020	14	14.85	82.57	7.6	33.52	8.1	24.9	2.06
I39	10 Feb 2020	15	14.84	82.34	7.6	33.52	8.1	24.9	1.92
I39	10 Feb 2020	16	14.78	82.33	7.6	33.52	8.1	24.9	1.71
I39	10 Feb 2020	17	14.73	82.58	7.5	33.52	8.1	24.9	1.64
I39	10 Feb 2020	18	14.68	82.91	7.5	33.52	8.0	24.9	1.60
I39	18 Feb 2020	1	15.11	87.22	8.0	33.52	8.1	24.8	0.69
I39	18 Feb 2020	2	15.06	87.20	8.0	33.52	8.1	24.8	0.69
I39	18 Feb 2020	3	15.02	86.99	8.0	33.52	8.1	24.8	0.73
I39	18 Feb 2020	4	15.01	86.86	8.0	33.52	8.1	24.8	0.78
I39	18 Feb 2020	5	15.01	86.90	8.0	33.51	8.1	24.8	0.87
I39	18 Feb 2020	6	14.97	86.80	7.9	33.52	8.1	24.8	0.91
I39	18 Feb 2020	7	14.76	86.75	7.8	33.54	8.0	24.9	0.97
I39	18 Feb 2020	8	14.28	86.52	7.6	33.52	8.0	25.0	1.17
I39	18 Feb 2020	9	14.18	86.60	7.5	33.52	8.0	25.0	1.36
I39	18 Feb 2020	10	14.08	86.67	7.4	33.52	8.0	25.0	1.57
I39	18 Feb 2020	11	13.97	87.01	7.3	33.51	8.0	25.0	1.63
I39	18 Feb 2020	12	13.91	87.25	7.2	33.51	8.0	25.1	1.80
I39	18 Feb 2020	13	13.85	87.24	7.1	33.53	8.0	25.1	1.91
I39	18 Feb 2020	14	13.82	87.10	7.0	33.53	8.0	25.1	1.69
I39	18 Feb 2020	15	13.69	86.63	6.9	33.55	8.0	25.1	1.61
I39	18 Feb 2020	16	13.58	86.80	6.8	33.55	7.9	25.1	1.49
I39	18 Feb 2020	17	13.58	86.07	6.8	33.54	7.9	25.1	1.35
I39	18 Feb 2020	18	13.58	85.69	6.8	33.54	7.9	25.1	1.31
I39	25 Feb 2020	1	15.24	83.14	8.0	33.52	8.0	24.8	0.63
I39	25 Feb 2020	2	15.23	83.14	8.0	33.52	8.0	24.8	0.62
I39	25 Feb 2020	3	15.22	83.26	8.0	33.52	8.0	24.8	0.64
I39	25 Feb 2020	4	15.22	83.21	8.0	33.52	8.0	24.8	0.66

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I39	25 Feb 2020	5	15.19	83.09	8.0	33.52	8.0	24.8	0.73
I39	25 Feb 2020	6	15.16	82.97	8.0	33.52	8.0	24.8	0.79
I39	25 Feb 2020	7	15.09	82.70	8.0	33.53	8.0	24.8	0.91
I39	25 Feb 2020	8	14.94	83.34	8.0	33.54	8.0	24.9	1.03
I39	25 Feb 2020	9	14.90	84.49	8.0	33.52	8.0	24.9	1.16
I39	25 Feb 2020	10	14.89	84.58	8.0	33.52	8.0	24.9	1.24
I39	25 Feb 2020	11	14.88	84.74	8.0	33.52	8.0	24.9	1.33
I39	25 Feb 2020	12	14.86	84.97	8.0	33.53	8.0	24.9	1.54
I39	25 Feb 2020	13	14.70	84.66	7.9	33.53	8.0	24.9	1.65
I39	25 Feb 2020	14	14.62	84.54	7.7	33.54	8.0	24.9	1.82
I39	25 Feb 2020	15	14.38	84.69	7.6	33.53	8.0	25.0	1.99
I39	25 Feb 2020	16	13.85	85.65	7.2	33.59	8.0	25.1	1.93
I39	25 Feb 2020	17	13.67	85.40	7.0	33.53	7.9	25.1	1.91
I39	25 Feb 2020	18	13.51	85.11	6.9	33.52	7.9	25.1	1.68
I40	05 Feb 2020	1	14.61	48.07	7.9	33.33	8.1	24.8	1.03
I40	05 Feb 2020	2	14.61	48.81	7.9	33.52	8.1	24.9	1.18
I40	05 Feb 2020	3	14.57	49.24	8.0	33.57	8.1	25.0	1.44
I40	05 Feb 2020	4	14.52	50.27	7.9	33.57	8.1	25.0	1.72
I40	05 Feb 2020	5	14.50	48.73	7.8	33.57	8.1	25.0	2.05
I40	05 Feb 2020	6	14.49	45.38	7.8	33.57	8.1	25.0	2.29
I40	05 Feb 2020	7	14.45	43.61	7.8	33.58	8.1	25.0	2.33
I40	05 Feb 2020	8	14.38	43.57	7.9	33.58	8.1	25.0	2.34
I40	05 Feb 2020	9	14.30	44.62	8.0	33.59	8.1	25.0	2.38
I40	10 Feb 2020	1	14.68	58.68	8.1	33.36	8.1	24.8	2.27
I40	10 Feb 2020	2	14.64	58.87	8.1	33.41	8.1	24.8	2.83
I40	10 Feb 2020	3	14.60	61.65	8.1	33.42	8.1	24.8	3.06
I40	10 Feb 2020	4	14.65	64.43	8.0	33.43	8.1	24.8	3.40
I40	10 Feb 2020	5	14.71	68.28	8.0	33.45	8.1	24.8	3.47
I40	10 Feb 2020	6	14.81	74.43	8.0	33.48	8.1	24.8	3.25
I40	10 Feb 2020	7	14.80	78.68	7.9	33.51	8.1	24.9	2.99
I40	10 Feb 2020	8	14.73	80.89	7.9	33.51	8.1	24.9	2.79
I40	10 Feb 2020	9	14.68	79.31	7.9	33.51	8.1	24.9	2.75
I40	10 Feb 2020	10	14.65	75.13	7.9	33.50	8.1	24.9	2.80
I40	18 Feb 2020	1	15.26	67.65	8.1	33.22	8.0	24.5	1.17
I40	18 Feb 2020	2	15.16	67.66	8.2	33.33	8.0	24.6	1.24
I40	18 Feb 2020	3	14.99	70.28	8.1	33.45	8.0	24.8	1.51
I40	18 Feb 2020	4	14.96	69.99	8.0	33.45	8.0	24.8	1.86
I40	18 Feb 2020	5	14.93	67.70	8.0	33.47	8.0	24.8	2.32
I40	18 Feb 2020	6	14.92	66.02	7.9	33.49	8.0	24.8	2.65
I40	18 Feb 2020	7	14.89	61.15	7.7	33.49	8.0	24.8	2.68
I40	18 Feb 2020	8	14.61	59.34	7.3	33.54	8.0	24.9	2.71
I40	18 Feb 2020	9	14.30	57.82	6.8	33.54	8.0	25.0	2.53
I40	18 Feb 2020	10	14.19	53.91	6.5	33.54	7.9	25.0	2.51
I40	25 Feb 2020	1	15.01	71.05	8.2	33.51	8.0	24.8	1.06
I40	25 Feb 2020	2	14.98	71.12	8.2	33.51	8.0	24.8	1.09
I40	25 Feb 2020	3	14.85	71.47	8.1	33.51	8.0	24.9	1.21
I40	25 Feb 2020	4	14.83	72.18	8.0	33.51	8.0	24.9	1.44
I40	25 Feb 2020	5	14.77	72.02	7.9	33.51	8.0	24.9	1.69
I40	25 Feb 2020	6	14.64	72.41	7.8	33.53	8.0	24.9	1.89
I40	25 Feb 2020	7	14.44	66.08	7.8	33.51	8.0	24.9	2.18
I40	25 Feb 2020	8	14.43	62.11	7.7	33.51	8.0	24.9	2.84

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I40	25 Feb 2020	9	14.16	54.75	7.4	33.53	8.0	25.0	3.28
I40	25 Feb 2020	10	14.03	35.35	7.0	33.50	7.9	25.0	4.01

NA = not available

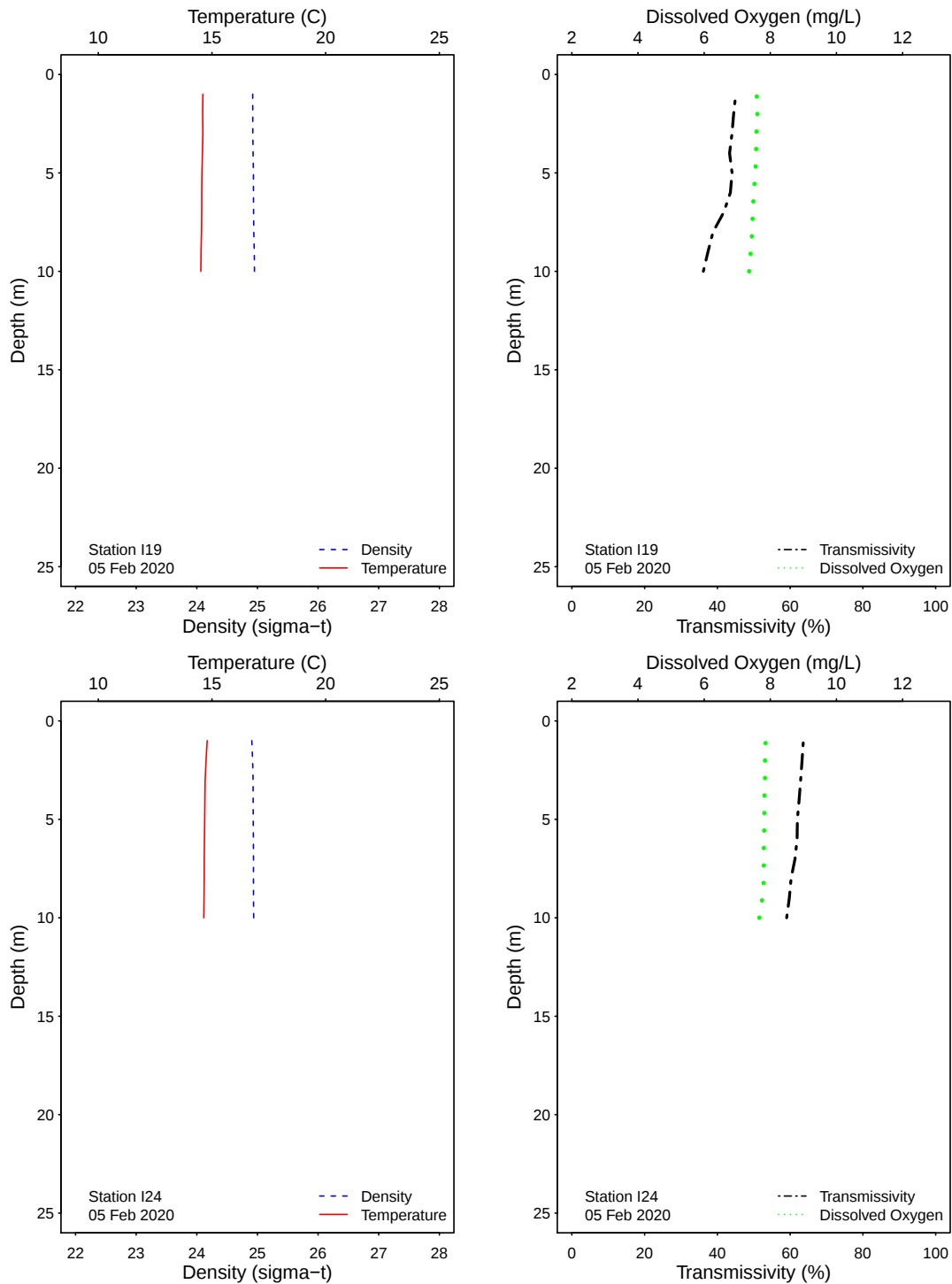


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

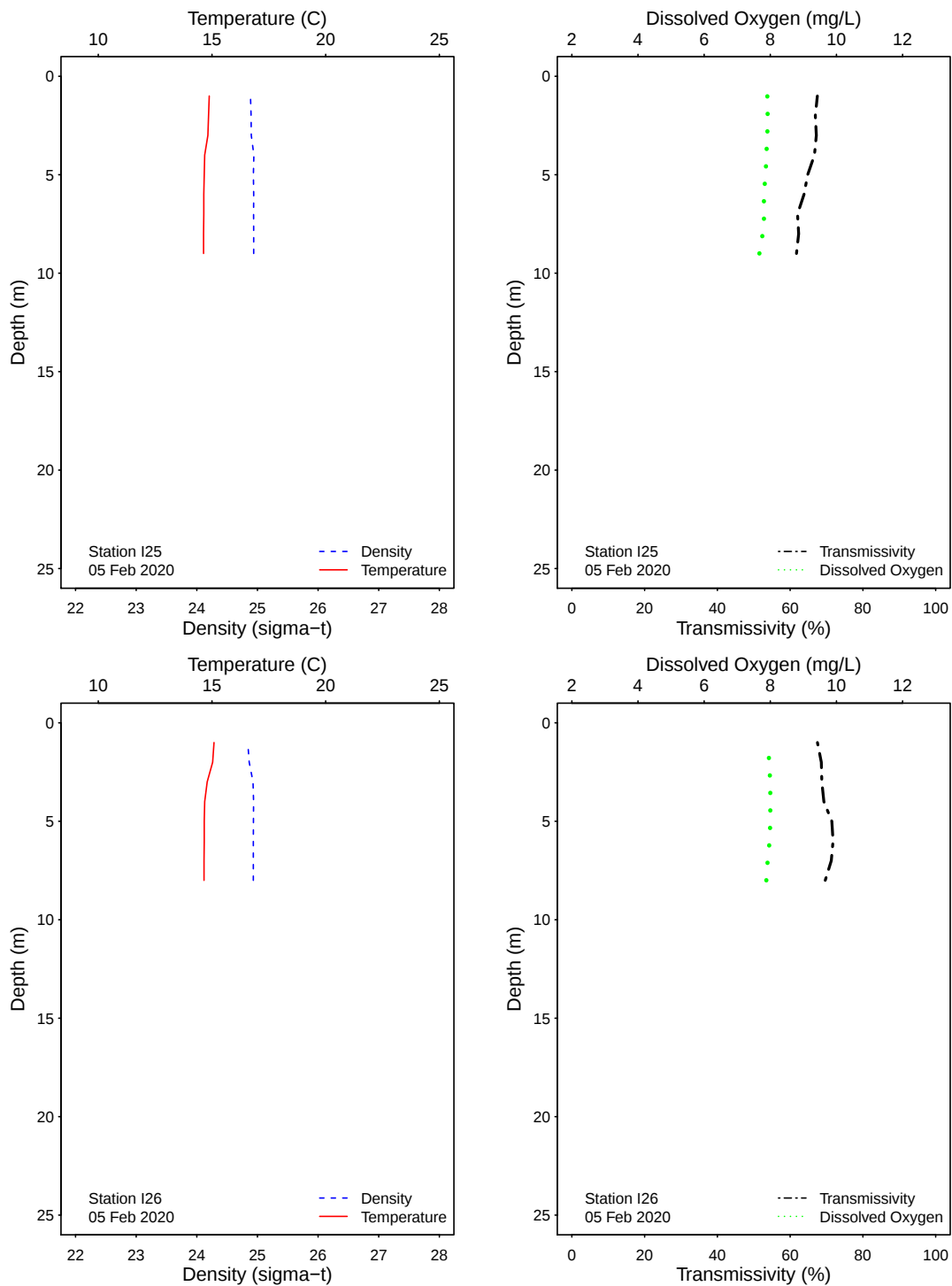


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

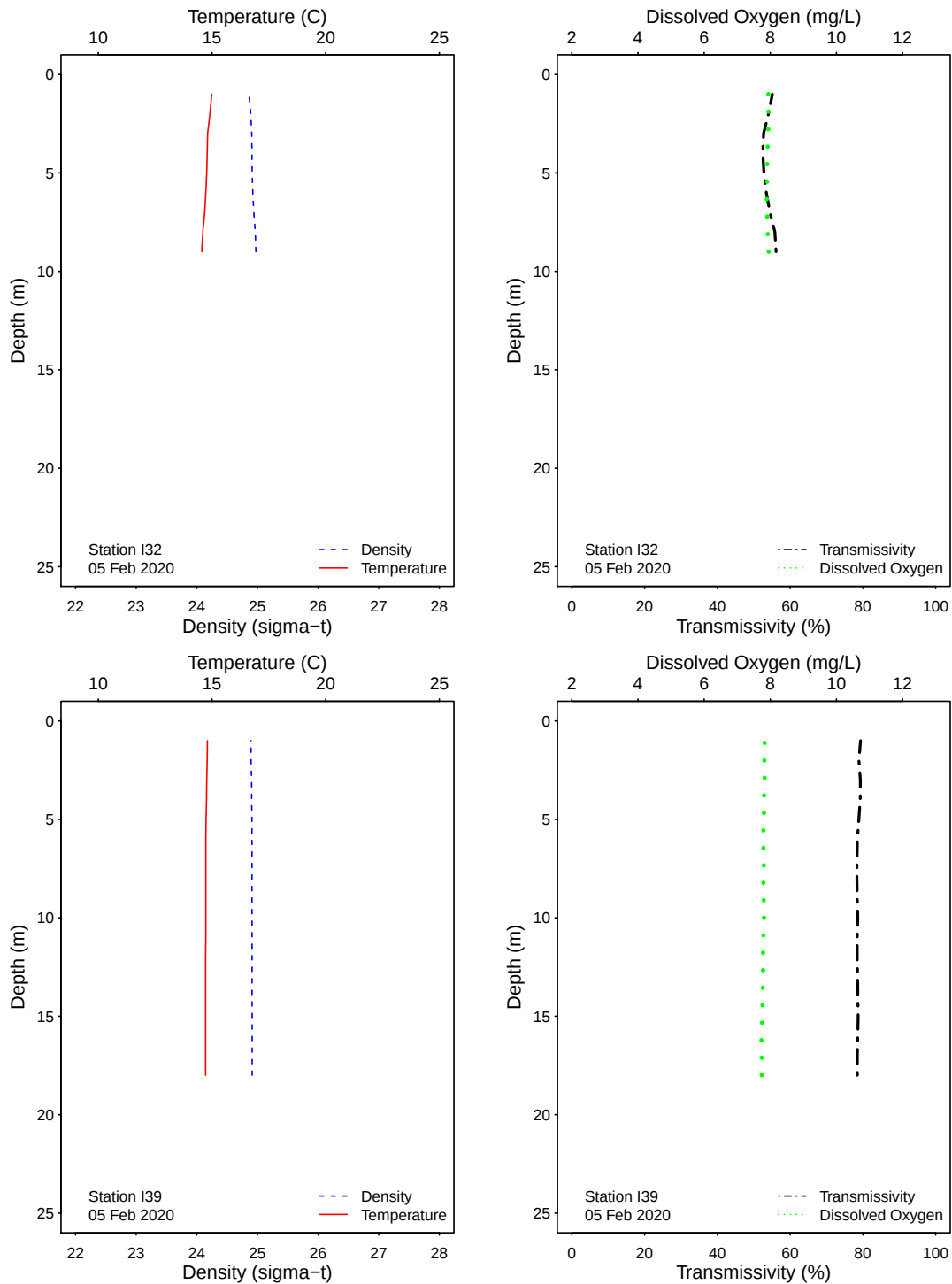


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

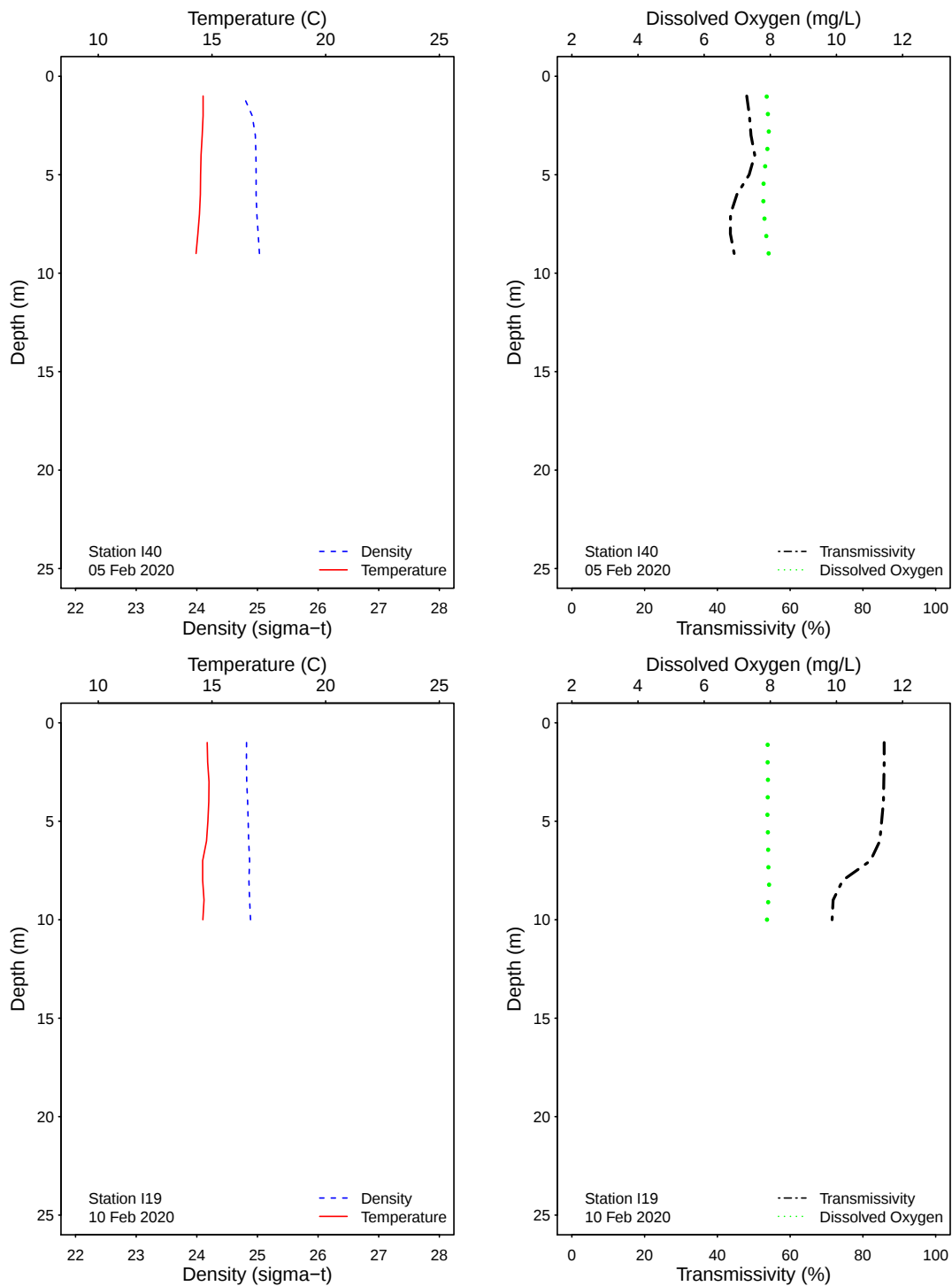


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

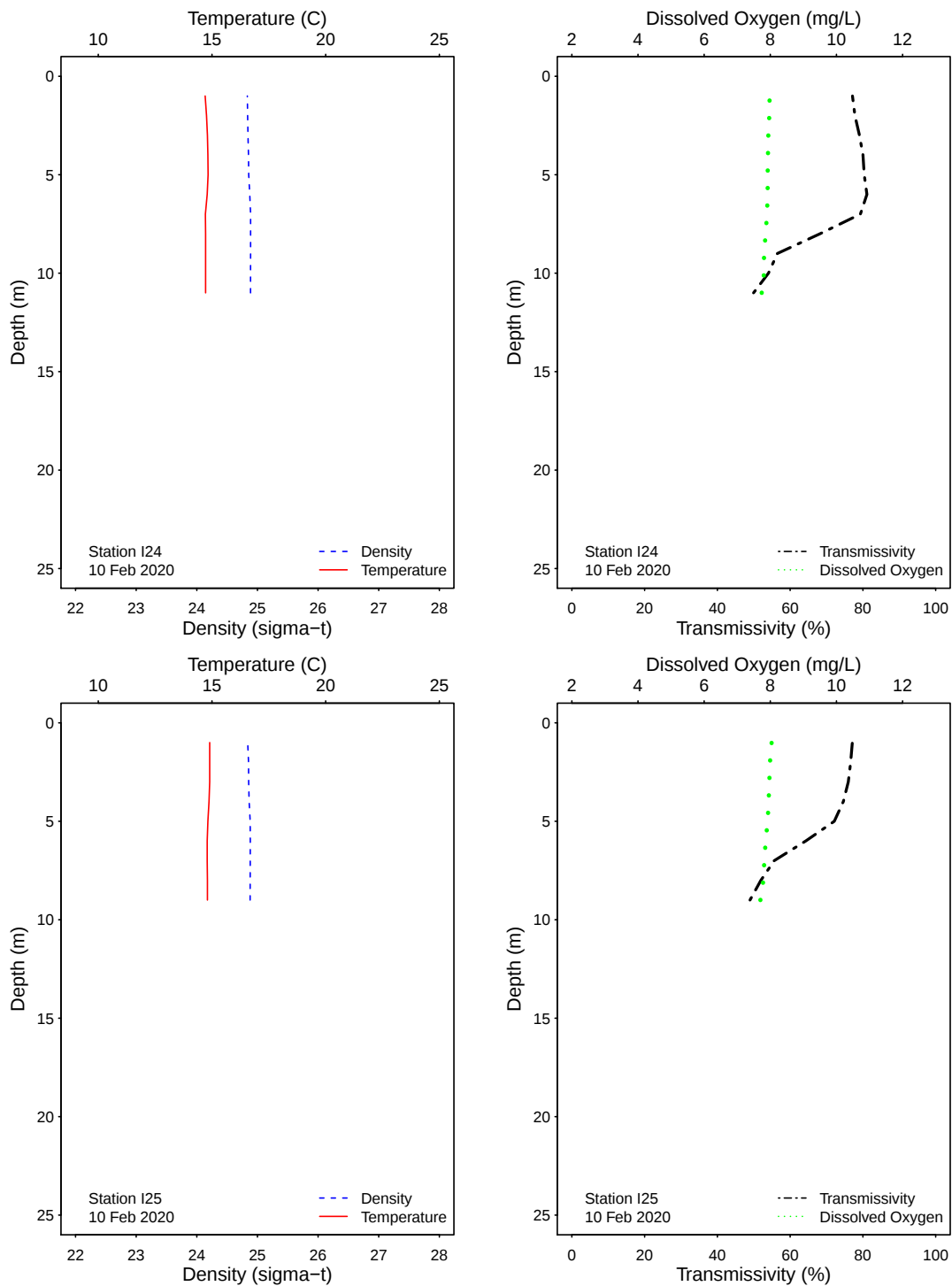


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

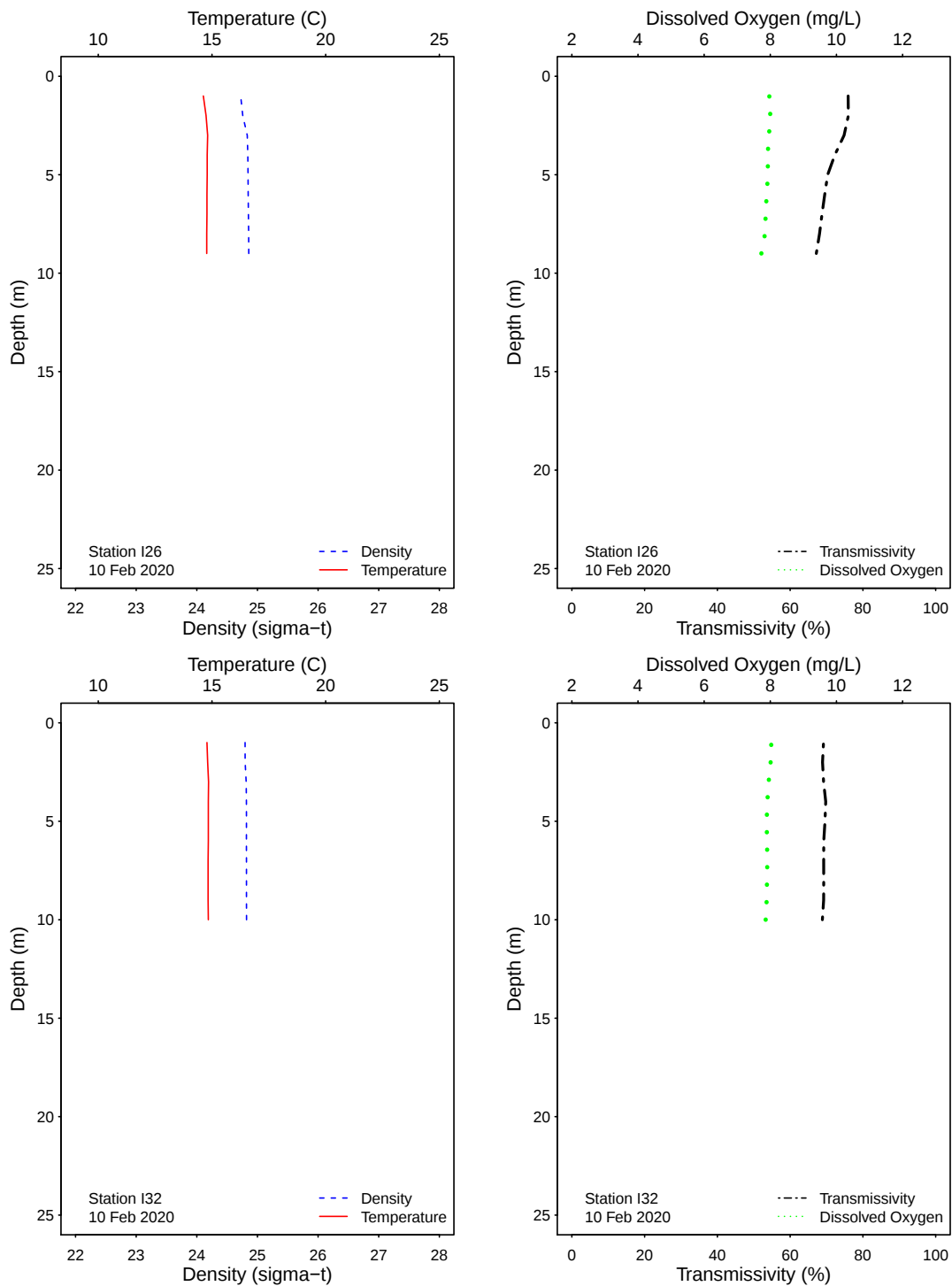


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

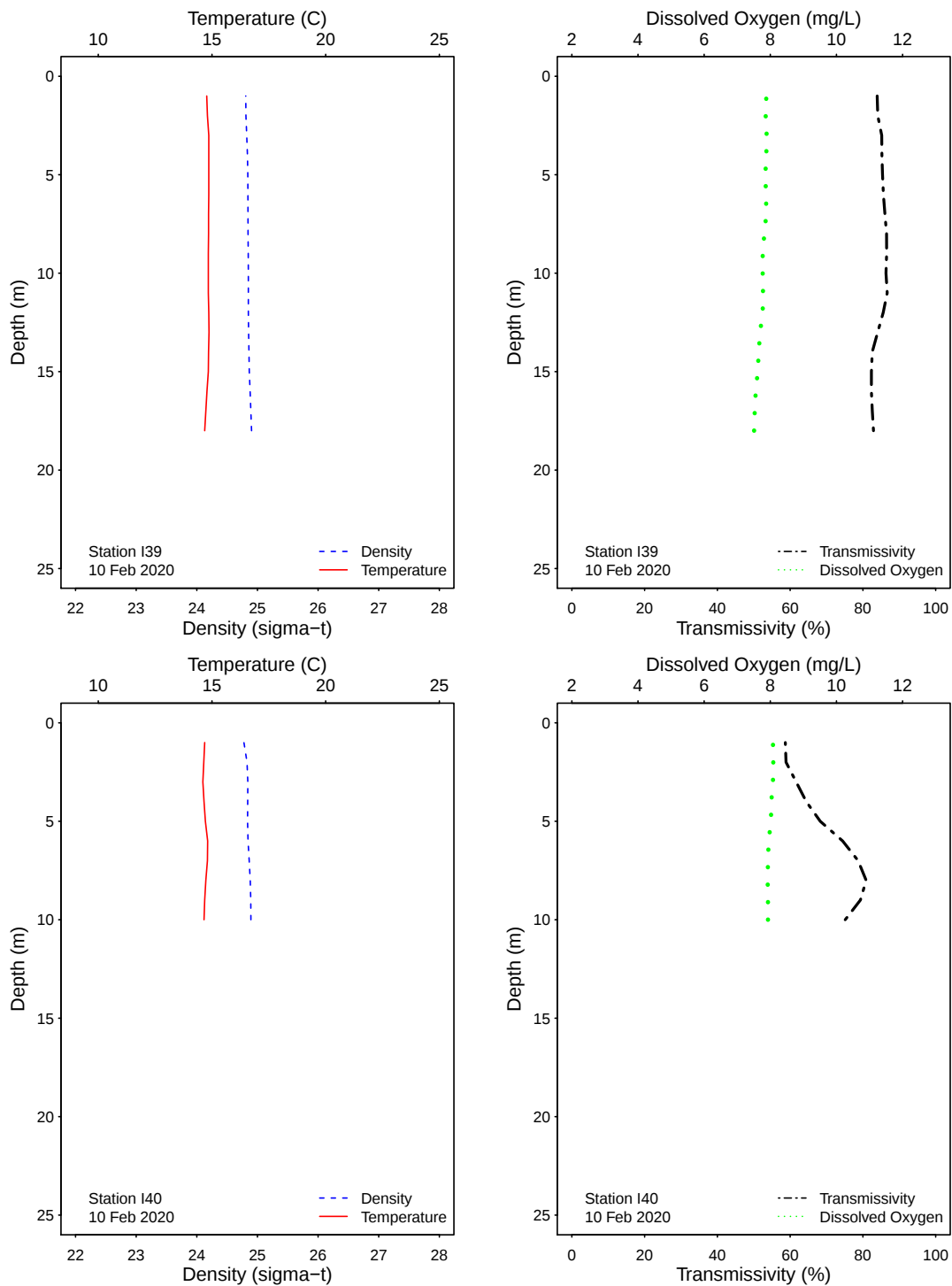


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

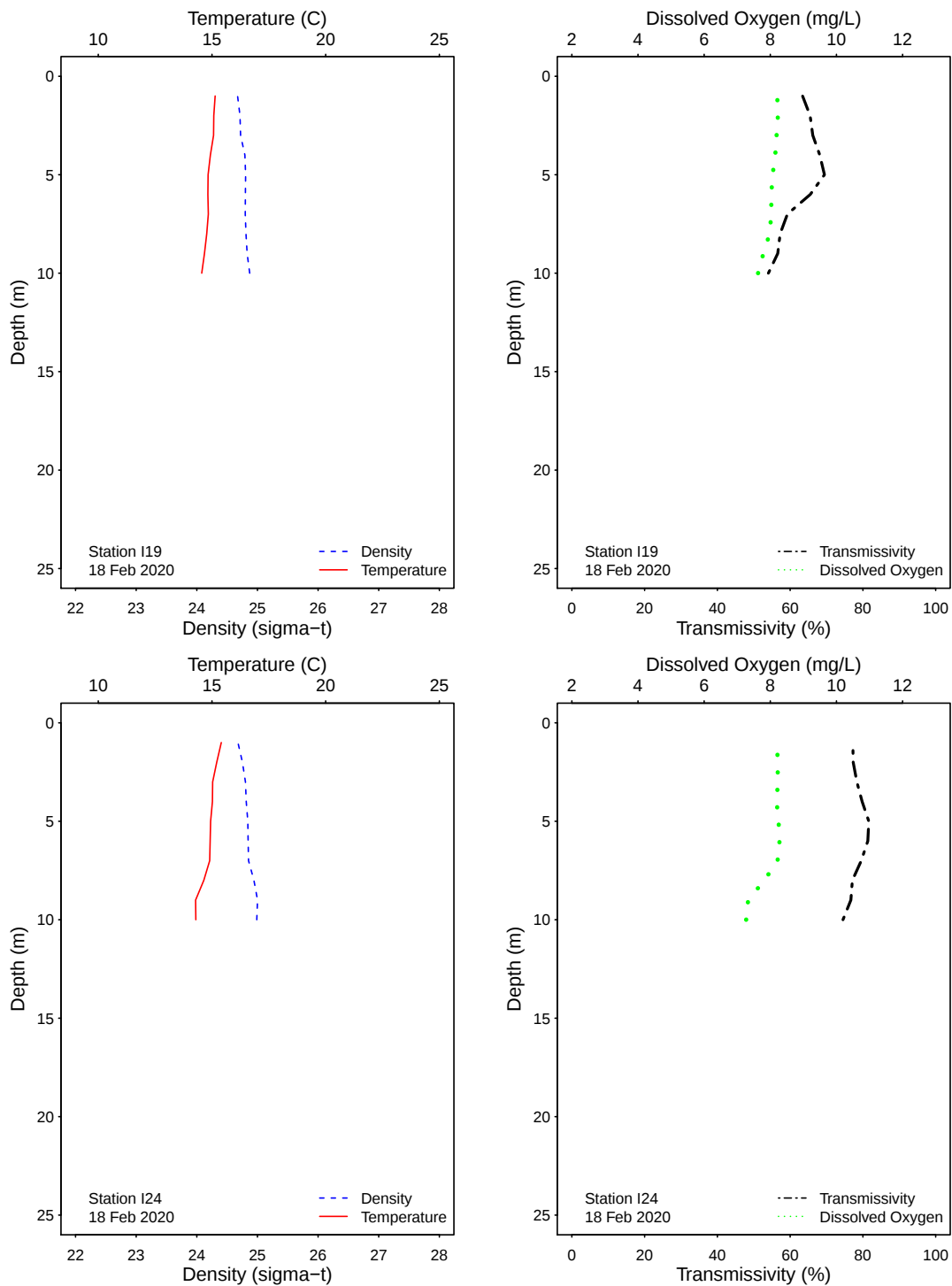


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

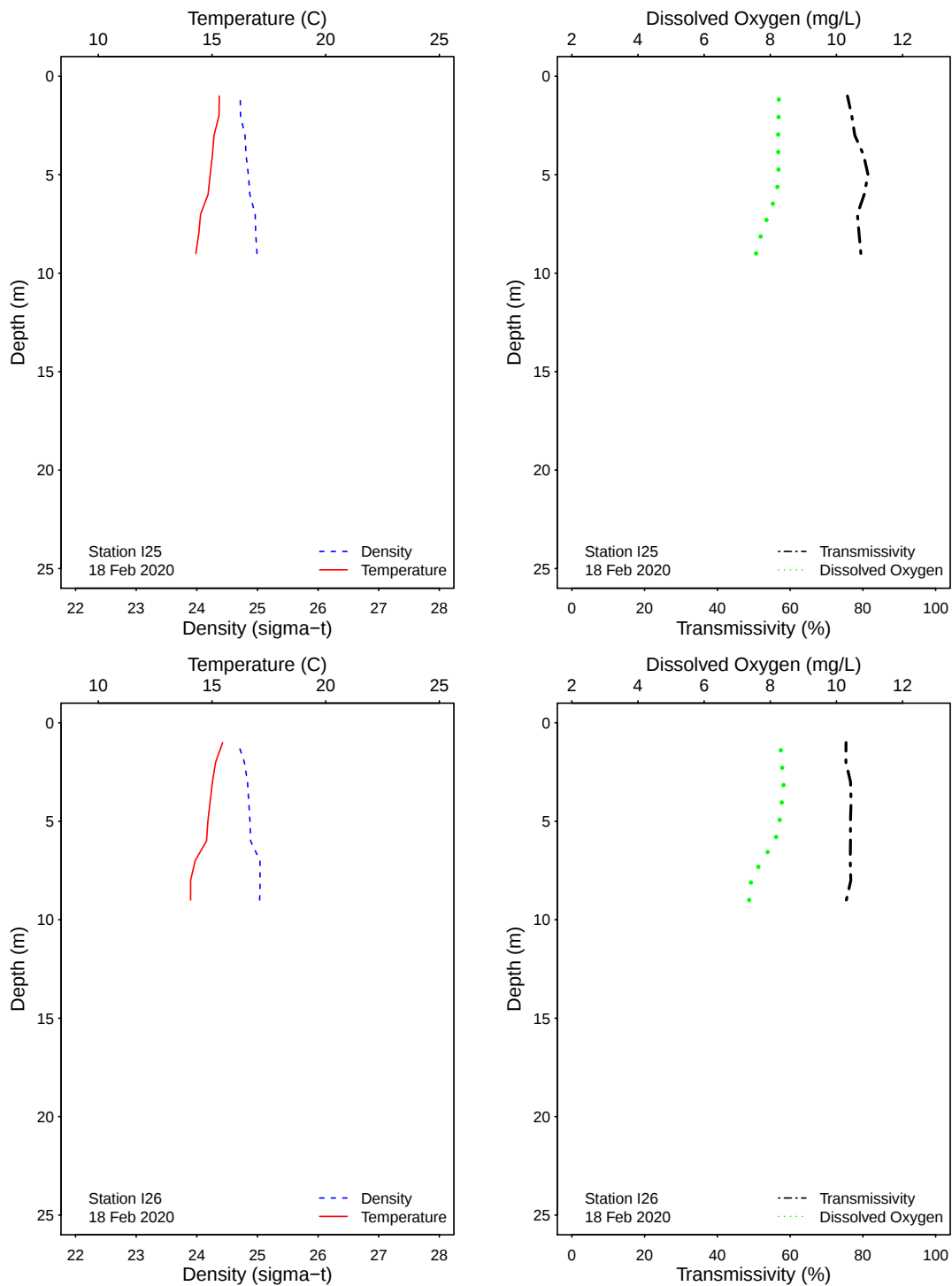


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

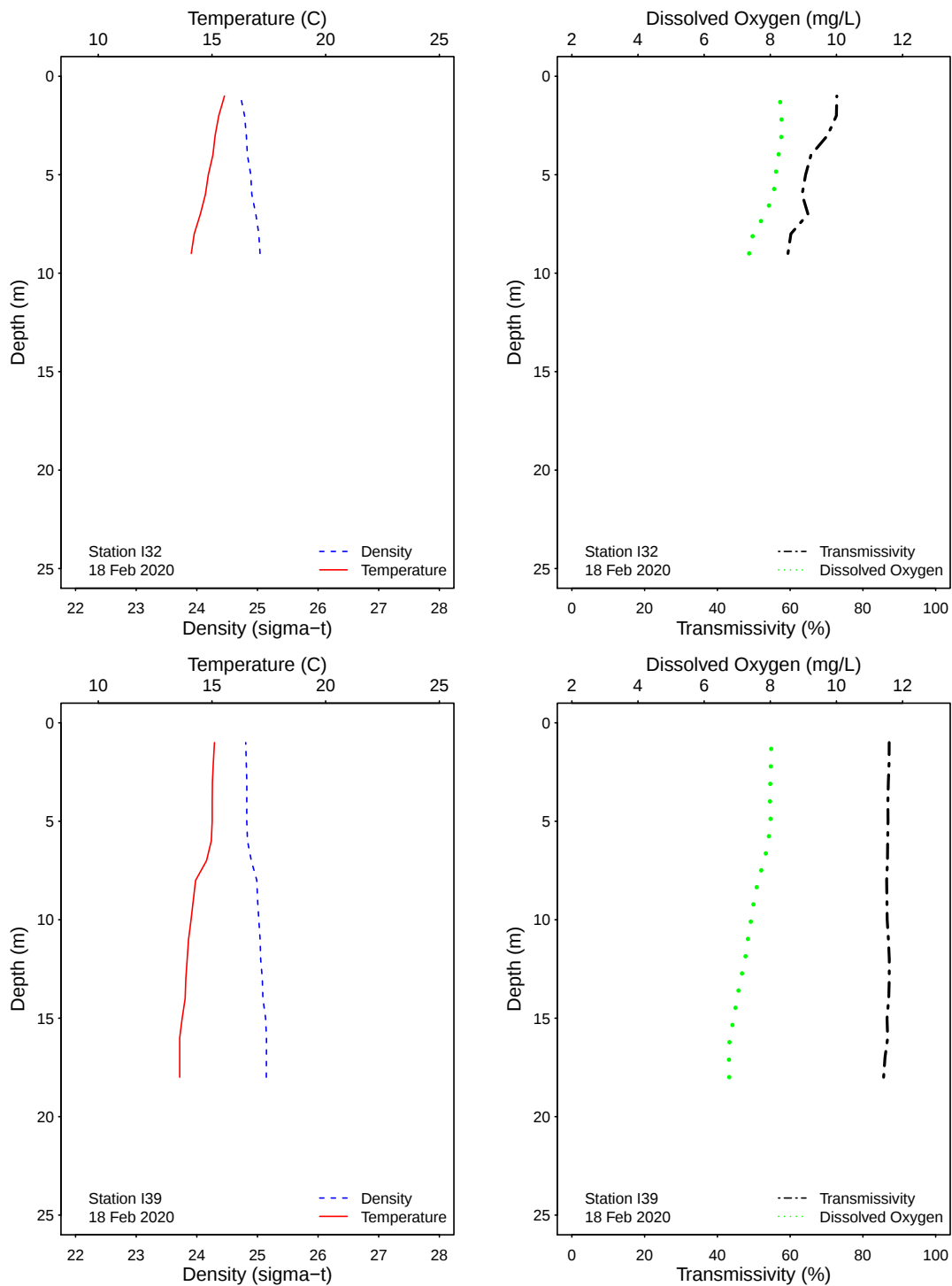


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

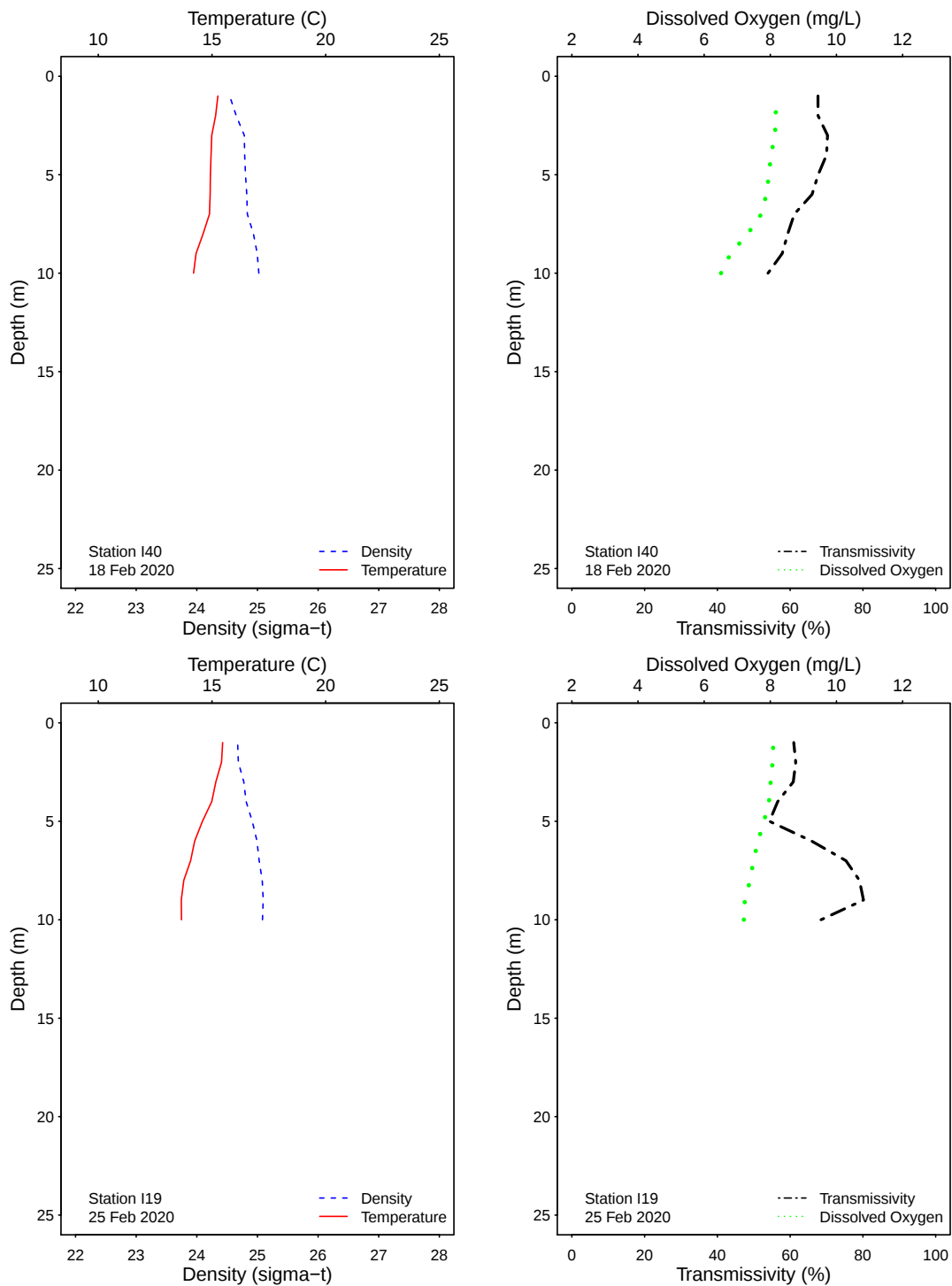


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

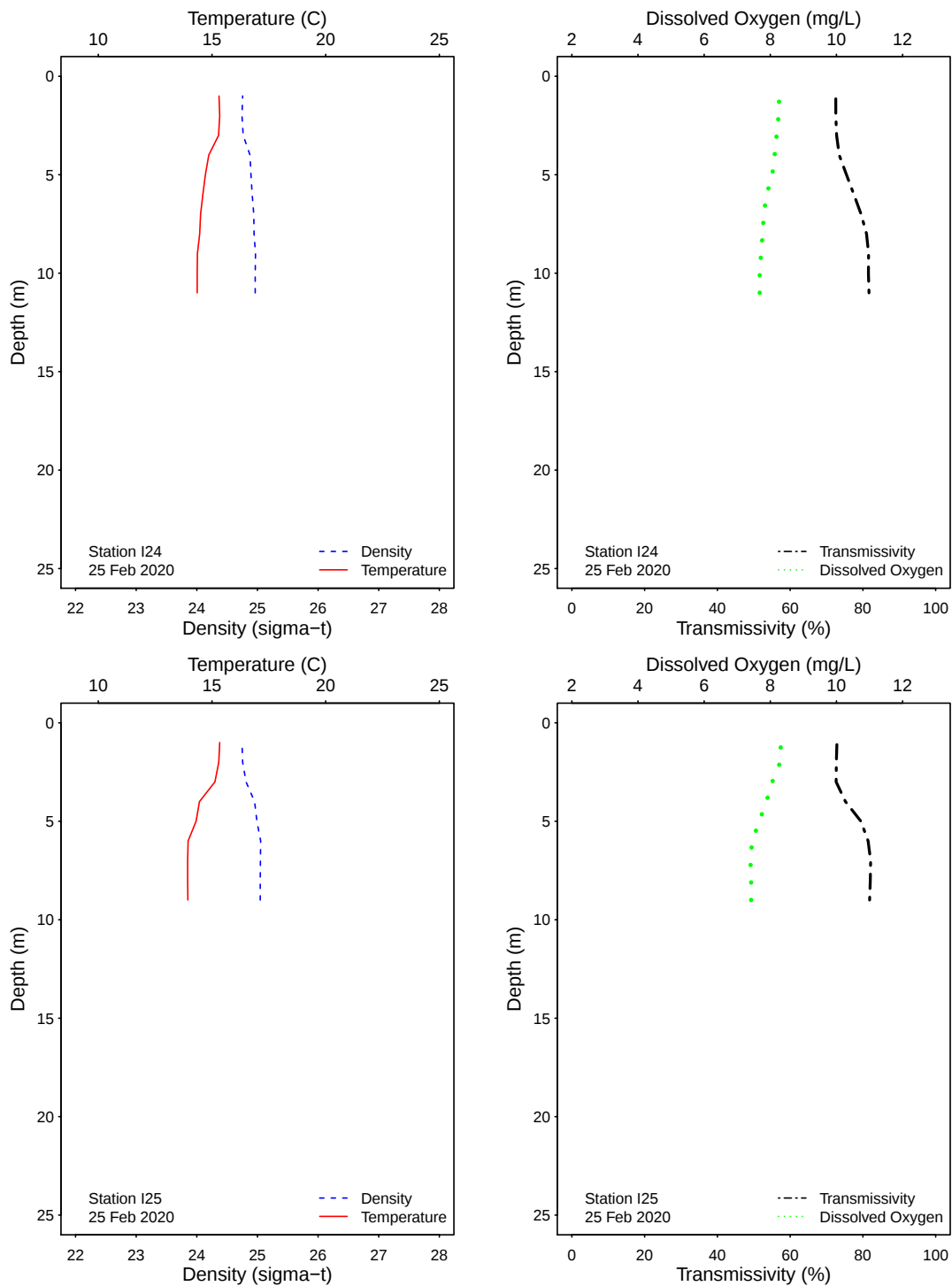


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

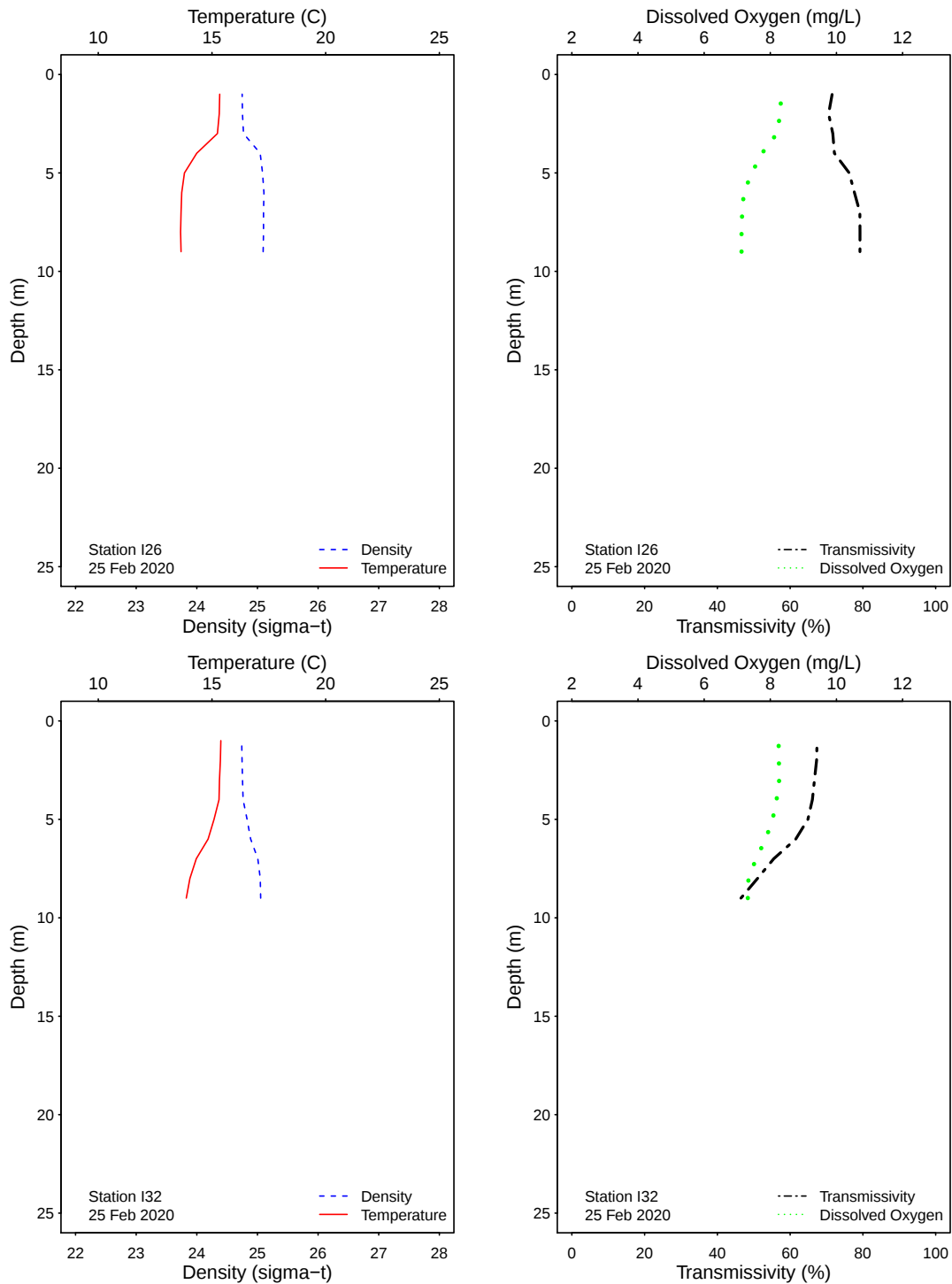


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

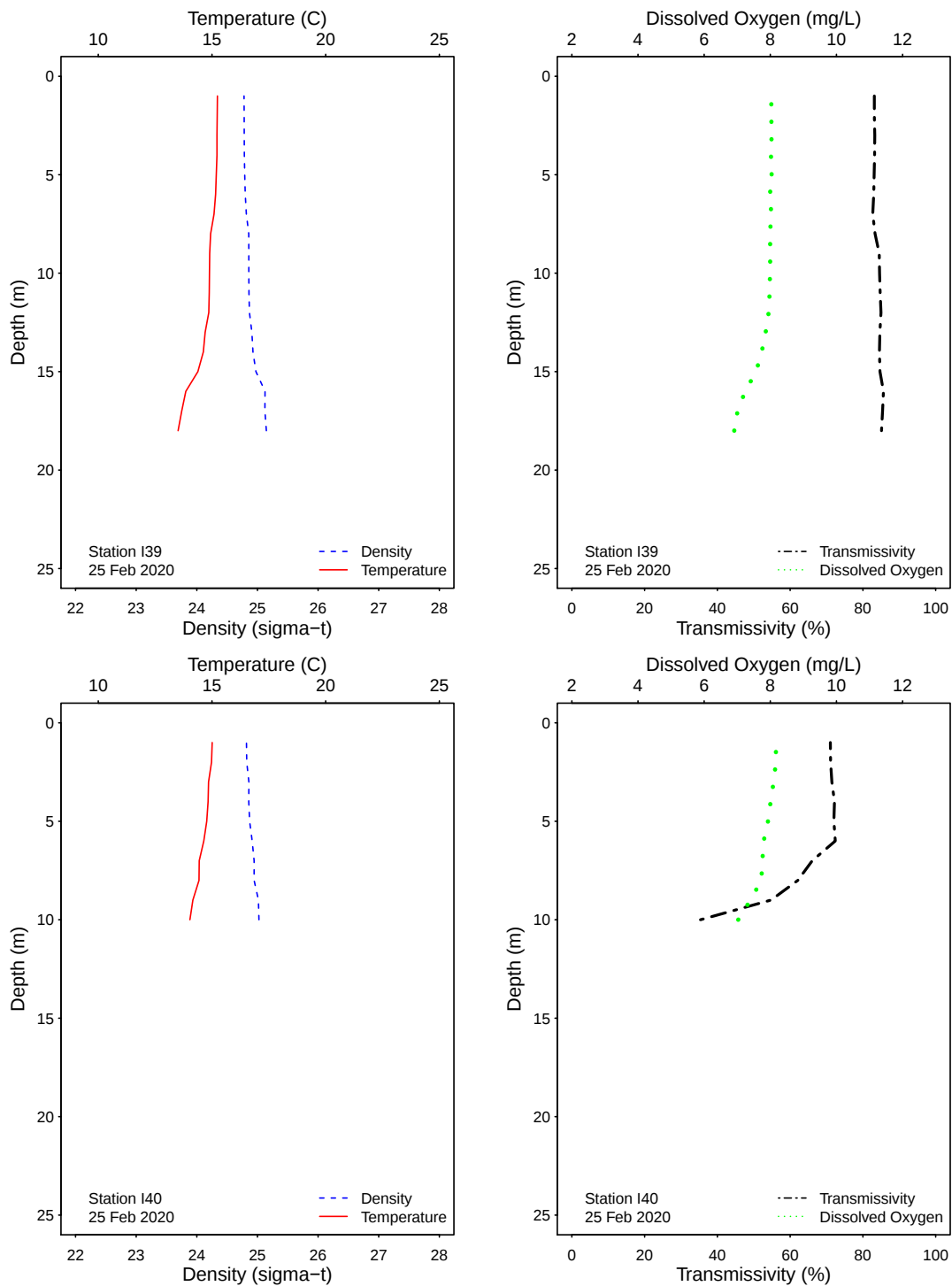


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

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
13 Feb 2020	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
14 Feb 2020	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

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Offshore Stations

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
13 Feb 2020	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
14 Feb 2020	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 4.3

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

Date	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
13 Feb 2020	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
14 Feb 2020	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 4.4

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

Date	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
13 Feb 2020	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
14 Feb 2020	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 4.5

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

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH
I10	12 Feb 2020	1139	2	2e	<2	4e	1.00	15.1	82.45	8.2	33.45	8.1
I10	12 Feb 2020	1139	12	74	26e	18e	0.35	14.8	83.66	8.1	33.48	8.1
I10	12 Feb 2020	1139	18	50	6e	8e	0.12	13.8	86.17	7.1	33.52	8.0
I11	12 Feb 2020	1128	2	<2	4e	<2	2.00	15.1	82.22	8.2	33.48	8.1
I11	12 Feb 2020	1128	6	30e	14e	6e	0.47	14.9	82.15	8.2	33.48	8.1
I11	12 Feb 2020	1128	11	200e	2e	<20	0.01	14.8	83.55	7.9	33.49	8.1
I12	13 Feb 2020	1030	2	86	10e	4e	0.12	14.3	86.56	7.4	33.32	8.0
I12	13 Feb 2020	1030	18	12e	<2	2e	0.17	14.3	87.38	7.5	33.48	8.0
I12	13 Feb 2020	1030	27	14e	4e	<2	0.29	13.6	86.11	6.9	33.54	8.0
I13	13 Feb 2020	1100	2	<2	<2	<2	1.00	15.2	90.13	7.8	33.50	8.1
I13	13 Feb 2020	1100	18	<2	<2	<2	1.00	14.9	89.18	7.8	33.51	8.1
I13	13 Feb 2020	1100	37	<2	<2	<2	1.00	13.6	88.54	6.9	33.54	8.0
I14	13 Feb 2020	1121	2	<2	<2	<2	1.00	15.0	86.65	8.0	33.52	8.1
I14	13 Feb 2020	1121	18	10e	<2	<2	0.20	14.6	87.34	7.7	33.52	8.1
I14	13 Feb 2020	1121	27	4e	<2	<2	0.50	13.7	86.92	7.0	33.54	8.0
I16	13 Feb 2020	1021	2	<2	<2	<2	1.00	14.8	87.16	8.0	33.50	8.1
I16	13 Feb 2020	1021	18	<2	<2	<2	1.00	14.4	88.43	7.6	33.52	8.0
I16	13 Feb 2020	1021	27	8e	2e	4e	0.25	13.7	88.00	7.0	33.53	8.0
I18	13 Feb 2020	958	2	<2	<2	<2	1.00	14.9	82.14	8.2	33.43	8.1
I18	13 Feb 2020	958	12	120e	10e	10e	0.08	14.5	84.55	7.7	33.49	8.1
I18	13 Feb 2020	958	18	72	6e	2e	0.08	13.8	80.76	6.9	33.52	8.0
I20	13 Feb 2020	832	2	<2	<2	<2	1.00	15.2	90.73	7.8	33.47	8.1
I20	13 Feb 2020	832	18	<2	<2	<2	1.00	15.2	90.76	7.8	33.47	8.1
I20	13 Feb 2020	832	55	<2	<2	<2	1.00	13.6	90.01	6.8	33.53	8.0
I21	13 Feb 2020	850	2	<2	<2	<2	1.00	15.0	89.55	7.8	33.49	8.1
I21	13 Feb 2020	850	18	<2	<2	<2	1.00	15.0	89.78	7.8	33.49	8.1
I21	13 Feb 2020	850	37	<20	<2	<2	0.10	13.5	89.86	6.9	33.56	8.0
I22	13 Feb 2020	930	2	<200	18e	2e	0.09	14.8	85.17	8.0	33.48	8.1
I22	13 Feb 2020	930	18	2e	<2	<2	1.00	14.3	88.84	7.4	33.53	8.0
I22	13 Feb 2020	930	27	6e	2e	2e	0.33	13.6	87.74	6.9	33.53	8.0
I23	13 Feb 2020	945	2	340e	82	16e	0.24	14.8	80.83	8.3	33.41	8.1
I23	13 Feb 2020	945	12	100e	22e	14e	0.22	13.9	74.75	6.8	33.53	8.0
I23	13 Feb 2020	945	18	80e	6e	10e	0.07	13.7	79.75	6.8	33.53	8.0
I3	12 Feb 2020	1039	2	2e	2e	2e	1.00	14.9	82.86	8.1	33.43	8.1
I3	12 Feb 2020	1039	18	8e	<2	4e	0.25	14.1	88.39	7.3	33.52	8.0
I3	12 Feb 2020	1039	27	2e	<2	<2	1.00	14.1	87.74	7.2	33.51	8.0

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH
I30	14 Feb 2020	939	2	<2	<2	<2	1.00	14.8	86.12	7.9	33.50	8.1
I30	14 Feb 2020	939	18	<2	<2	2e	1.00	14.6	88.67	7.6	33.52	8.1
I30	14 Feb 2020	939	27	16e	4e	2e	0.25	13.6	88.20	6.7	33.55	8.0
I33	14 Feb 2020	847	2	2e	<2	<2	1.00	14.8	87.45	7.9	33.51	8.1
I33	14 Feb 2020	847	18	22e	4e	2e	0.18	14.4	89.47	7.4	33.52	8.1
I33	14 Feb 2020	847	27	10e	2e	<2	0.20	13.6	89.76	6.7	33.56	8.0
I36	14 Feb 2020	1013	2	<2	<2	<2	1.00	15.0	71.10	8.0	33.51	8.1
I36	14 Feb 2020	1013	6	2e	2e	<2	1.00	14.8	72.30	8.0	33.51	8.1
I36	14 Feb 2020	1013	11	8e	6e	<2	0.75	14.8	40.51	7.7	33.51	8.1
I37	14 Feb 2020	820	2	<2	<2	<2	1.00	14.9	80.13	7.9	33.47	8.1
I37	14 Feb 2020	820	6	<2	2e	<2	1.00	14.9	80.43	7.9	33.47	8.1
I37	14 Feb 2020	820	11	2e	<2	<2	1.00	14.9	78.76	7.8	33.47	8.1
I38	14 Feb 2020	1043	2	<2	2e	<2	1.00	14.9	80.59	8.1	33.52	8.1
I38	14 Feb 2020	1043	6	<2	4e	<2	2.00	14.9	78.61	8.2	33.51	8.1
I38	14 Feb 2020	1043	11	8e	10e	20e	1.25	14.8	76.29	8.1	33.51	8.1
I5	12 Feb 2020	1101	2	<2	<2	<2	1.00	15.0	83.24	8.1	33.48	8.1
I5	12 Feb 2020	1101	6	4e	<2	2e	0.50	14.8	82.32	8.1	33.48	8.1
I5	12 Feb 2020	1101	11	50	2e	2e	0.04	14.7	79.77	8.0	33.48	8.1
I7	12 Feb 2020	925	2	<2	<2	<20	1.00	15.3	90.75	7.9	33.48	8.1
I7	12 Feb 2020	925	18	<2	<2	<20	1.00	15.2	90.48	7.9	33.49	8.1
I7	12 Feb 2020	925	52	<2	2e	2e	1.00	12.9	90.52	6.2	33.59	7.9
I8	12 Feb 2020	1204	2	<2	<2	<2	1.00	15.1	89.25	7.9	33.51	8.1
I8	12 Feb 2020	1204	18	<2	<2	<2	1.00	14.8	88.63	7.7	33.51	8.1
I8	12 Feb 2020	1204	37	6e	<2	<2	0.33	13.5	87.71	6.8	33.52	8.0
I9	12 Feb 2020	1152	2	10e	10e	16e	1.00	15.1	78.13	8.1	33.40	8.1
I9	12 Feb 2020	1152	18	38e	2e	4e	0.05	14.6	85.33	7.7	33.49	8.1
I9	12 Feb 2020	1152	27	16e	2e	6e	0.12	13.7	85.75	7.0	33.54	8.0

ns = not sampled

ND = no data

Table 4.6

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

Station	Date	Parameter	Value
I1	12 Feb 2020	Depth (m)	62
I1	12 Feb 2020	Arrive Time	951
I1	12 Feb 2020	Depart Time	1016
I1	12 Feb 2020	Air Temp (C)	14
I1	12 Feb 2020	Weather	Haze
I1	12 Feb 2020	Visibility (mi)	12
I1	12 Feb 2020	Wind Speed (kts)	7
I1	12 Feb 2020	Wind Dir	E
I1	12 Feb 2020	Water Color	Blue
I1	12 Feb 2020	Wave Ht Low (ft)	2
I1	12 Feb 2020	Wave Period (sec)	13
I1	12 Feb 2020	Sea State	Calm
I1	12 Feb 2020	High Tide (ft)	5.17
I1	12 Feb 2020	High Tide Time	1054
I1	12 Feb 2020	Low Tide (ft)	0.83
I1	12 Feb 2020	Low Tide Time	501
I1	12 Feb 2020	Comments	
I10	12 Feb 2020	Depth (m)	19
I10	12 Feb 2020	Arrive Time	1139
I10	12 Feb 2020	Depart Time	1144
I10	12 Feb 2020	Air Temp (C)	14
I10	12 Feb 2020	Weather	Haze
I10	12 Feb 2020	Visibility (mi)	12
I10	12 Feb 2020	Wind Speed (kts)	4
I10	12 Feb 2020	Wind Dir	NE
I10	12 Feb 2020	Water Color	Bluish-Green
I10	12 Feb 2020	Wave Ht Low (ft)	2
I10	12 Feb 2020	Wave Period (sec)	13
I10	12 Feb 2020	Sea State	Calm
I10	12 Feb 2020	High Tide (ft)	5.17
I10	12 Feb 2020	High Tide Time	1054
I10	12 Feb 2020	Low Tide (ft)	0.83
I10	12 Feb 2020	Low Tide Time	501
I10	12 Feb 2020	Comments	none
I11	12 Feb 2020	Depth (m)	14
I11	12 Feb 2020	Arrive Time	1128
I11	12 Feb 2020	Depart Time	1134
I11	12 Feb 2020	Air Temp (C)	15
I11	12 Feb 2020	Weather	Haze
I11	12 Feb 2020	Visibility (mi)	12
I11	12 Feb 2020	Wind Speed (kts)	6
I11	12 Feb 2020	Wind Dir	E
I11	12 Feb 2020	Water Color	Bluish-Green
I11	12 Feb 2020	Wave Ht Low (ft)	2
I11	12 Feb 2020	Wave Period (sec)	13
I11	12 Feb 2020	Sea State	Calm
I11	12 Feb 2020	High Tide (ft)	5.17
I11	12 Feb 2020	High Tide Time	1054
I11	12 Feb 2020	Low Tide (ft)	0.83

Station	Date	Parameter	Value
I11	12 Feb 2020	Low Tide Time	501
I11	12 Feb 2020	Comments	none
I12	13 Feb 2020	Depth (m)	29
I12	13 Feb 2020	Arrive Time	1030
I12	13 Feb 2020	Depart Time	1035
I12	13 Feb 2020	Air Temp (C)	14
I12	13 Feb 2020	Weather	Haze
I12	13 Feb 2020	Visibility (mi)	12
I12	13 Feb 2020	Wind Speed (kts)	2
I12	13 Feb 2020	Wind Dir	W
I12	13 Feb 2020	Water Color	Bluish-Green
I12	13 Feb 2020	Wave Ht Low (ft)	3
I12	13 Feb 2020	Wave Period (sec)	9
I12	13 Feb 2020	Sea State	Calm
I12	13 Feb 2020	High Tide (ft)	4.31
I12	13 Feb 2020	High Tide Time	1151
I12	13 Feb 2020	Low Tide (ft)	0.91
I12	13 Feb 2020	Low Tide Time	604
I12	13 Feb 2020	Comments	none
I13	13 Feb 2020	Depth (m)	39
I13	13 Feb 2020	Arrive Time	1100
I13	13 Feb 2020	Depart Time	1107
I13	13 Feb 2020	Air Temp (C)	13
I13	13 Feb 2020	Weather	Haze
I13	13 Feb 2020	Visibility (mi)	12
I13	13 Feb 2020	Wind Speed (kts)	3
I13	13 Feb 2020	Wind Dir	SW
I13	13 Feb 2020	Water Color	Bluish-Green
I13	13 Feb 2020	Wave Ht Low (ft)	3
I13	13 Feb 2020	Wave Period (sec)	9
I13	13 Feb 2020	Sea State	Calm
I13	13 Feb 2020	High Tide (ft)	4.31
I13	13 Feb 2020	High Tide Time	1151
I13	13 Feb 2020	Low Tide (ft)	0.91
I13	13 Feb 2020	Low Tide Time	604
I13	13 Feb 2020	Comments	
I14	13 Feb 2020	Depth (m)	29
I14	13 Feb 2020	Arrive Time	1121
I14	13 Feb 2020	Depart Time	1126
I14	13 Feb 2020	Air Temp (C)	14
I14	13 Feb 2020	Weather	Haze
I14	13 Feb 2020	Visibility (mi)	12
I14	13 Feb 2020	Wind Speed (kts)	4
I14	13 Feb 2020	Wind Dir	W
I14	13 Feb 2020	Water Color	Bluish-Green
I14	13 Feb 2020	Wave Ht Low (ft)	3
I14	13 Feb 2020	Wave Period (sec)	9
I14	13 Feb 2020	Sea State	Calm
I14	13 Feb 2020	High Tide (ft)	4.31
I14	13 Feb 2020	High Tide Time	1151
I14	13 Feb 2020	Low Tide (ft)	0.91
I14	13 Feb 2020	Low Tide Time	604

Station	Date	Parameter	Value
I14	13 Feb 2020	Comments	none
I15	13 Feb 2020	Depth (m)	32
I15	13 Feb 2020	Arrive Time	1042
I15	13 Feb 2020	Depart Time	1047
I15	13 Feb 2020	Air Temp (C)	14
I15	13 Feb 2020	Weather	Haze
I15	13 Feb 2020	Visibility (mi)	12
I15	13 Feb 2020	Wind Speed (kts)	4
I15	13 Feb 2020	Wind Dir	SW
I15	13 Feb 2020	Water Color	Bluish-Green
I15	13 Feb 2020	Wave Ht Low (ft)	3
I15	13 Feb 2020	Wave Period (sec)	9
I15	13 Feb 2020	Sea State	Calm
I15	13 Feb 2020	High Tide (ft)	4.31
I15	13 Feb 2020	High Tide Time	1151
I15	13 Feb 2020	Low Tide (ft)	0.91
I15	13 Feb 2020	Low Tide Time	604
I15	13 Feb 2020	Comments	none
I16	13 Feb 2020	Depth (m)	29
I16	13 Feb 2020	Arrive Time	1021
I16	13 Feb 2020	Depart Time	1026
I16	13 Feb 2020	Air Temp (C)	13
I16	13 Feb 2020	Weather	Haze
I16	13 Feb 2020	Visibility (mi)	12
I16	13 Feb 2020	Wind Speed (kts)	3
I16	13 Feb 2020	Wind Dir	SW
I16	13 Feb 2020	Water Color	Bluish-Green
I16	13 Feb 2020	Wave Ht Low (ft)	3
I16	13 Feb 2020	Wave Period (sec)	9
I16	13 Feb 2020	Sea State	Calm
I16	13 Feb 2020	High Tide (ft)	4.31
I16	13 Feb 2020	High Tide Time	1151
I16	13 Feb 2020	Low Tide (ft)	0.91
I16	13 Feb 2020	Low Tide Time	604
I16	13 Feb 2020	Comments	Boats
I17	13 Feb 2020	Depth (m)	27
I17	13 Feb 2020	Arrive Time	1012
I17	13 Feb 2020	Depart Time	1017
I17	13 Feb 2020	Air Temp (C)	13
I17	13 Feb 2020	Weather	Haze
I17	13 Feb 2020	Visibility (mi)	12
I17	13 Feb 2020	Wind Speed (kts)	5
I17	13 Feb 2020	Wind Dir	W
I17	13 Feb 2020	Water Color	Bluish-Green
I17	13 Feb 2020	Wave Ht Low (ft)	3
I17	13 Feb 2020	Wave Period (sec)	9
I17	13 Feb 2020	Sea State	Calm
I17	13 Feb 2020	High Tide (ft)	4.31
I17	13 Feb 2020	High Tide Time	1151
I17	13 Feb 2020	Low Tide (ft)	0.91
I17	13 Feb 2020	Low Tide Time	604
I17	13 Feb 2020	Comments	none

Station	Date	Parameter	Value
I18	13 Feb 2020	Depth (m)	21
I18	13 Feb 2020	Arrive Time	958
I18	13 Feb 2020	Depart Time	1002
I18	13 Feb 2020	Air Temp (C)	13
I18	13 Feb 2020	Weather	Haze
I18	13 Feb 2020	Visibility (mi)	12
I18	13 Feb 2020	Wind Speed (kts)	4
I18	13 Feb 2020	Wind Dir	W
I18	13 Feb 2020	Water Color	Bluish-Green
I18	13 Feb 2020	Wave Ht Low (ft)	3
I18	13 Feb 2020	Wave Period (sec)	9
I18	13 Feb 2020	Sea State	Calm
I18	13 Feb 2020	High Tide (ft)	4.31
I18	13 Feb 2020	High Tide Time	1151
I18	13 Feb 2020	Low Tide (ft)	0.91
I18	13 Feb 2020	Low Tide Time	604
I18	13 Feb 2020	Comments	none
I2	12 Feb 2020	Depth (m)	34
I2	12 Feb 2020	Arrive Time	1025
I2	12 Feb 2020	Depart Time	1030
I2	12 Feb 2020	Air Temp (C)	14
I2	12 Feb 2020	Weather	Haze
I2	12 Feb 2020	Visibility (mi)	12
I2	12 Feb 2020	Wind Speed (kts)	5
I2	12 Feb 2020	Wind Dir	E
I2	12 Feb 2020	Water Color	Blue
I2	12 Feb 2020	Wave Ht Low (ft)	2
I2	12 Feb 2020	Wave Period (sec)	13
I2	12 Feb 2020	Sea State	Calm
I2	12 Feb 2020	High Tide (ft)	5.17
I2	12 Feb 2020	High Tide Time	1054
I2	12 Feb 2020	Low Tide (ft)	0.83
I2	12 Feb 2020	Low Tide Time	501
I2	12 Feb 2020	Comments	none
I20	13 Feb 2020	Depth (m)	56
I20	13 Feb 2020	Arrive Time	832
I20	13 Feb 2020	Depart Time	838
I20	13 Feb 2020	Air Temp (C)	13
I20	13 Feb 2020	Weather	Haze
I20	13 Feb 2020	Visibility (mi)	12
I20	13 Feb 2020	Wind Speed (kts)	2
I20	13 Feb 2020	Wind Dir	N
I20	13 Feb 2020	Water Color	Blue
I20	13 Feb 2020	Wave Ht Low (ft)	3
I20	13 Feb 2020	Wave Period (sec)	9
I20	13 Feb 2020	Sea State	Calm
I20	13 Feb 2020	High Tide (ft)	4.31
I20	13 Feb 2020	High Tide Time	1151
I20	13 Feb 2020	Low Tide (ft)	0.91
I20	13 Feb 2020	Low Tide Time	604
I20	13 Feb 2020	Comments	none

Station	Date	Parameter	Value
I21	13 Feb 2020	Depth (m)	41
I21	13 Feb 2020	Arrive Time	850
I21	13 Feb 2020	Depart Time	857
I21	13 Feb 2020	Air Temp (C)	12
I21	13 Feb 2020	Weather	Haze
I21	13 Feb 2020	Visibility (mi)	12
I21	13 Feb 2020	Wind Speed (kts)	2
I21	13 Feb 2020	Wind Dir	NW
I21	13 Feb 2020	Water Color	Blue
I21	13 Feb 2020	Wave Ht Low (ft)	3
I21	13 Feb 2020	Wave Period (sec)	9
I21	13 Feb 2020	Sea State	Calm
I21	13 Feb 2020	High Tide (ft)	4.31
I21	13 Feb 2020	High Tide Time	1151
I21	13 Feb 2020	Low Tide (ft)	0.91
I21	13 Feb 2020	Low Tide Time	604
I21	13 Feb 2020	Comments	none
I22	13 Feb 2020	Depth (m)	29
I22	13 Feb 2020	Arrive Time	930
I22	13 Feb 2020	Depart Time	941
I22	13 Feb 2020	Air Temp (C)	13
I22	13 Feb 2020	Weather	Haze
I22	13 Feb 2020	Visibility (mi)	12
I22	13 Feb 2020	Wind Speed (kts)	4
I22	13 Feb 2020	Wind Dir	W
I22	13 Feb 2020	Water Color	Blue
I22	13 Feb 2020	Wave Ht Low (ft)	3
I22	13 Feb 2020	Wave Period (sec)	9
I22	13 Feb 2020	Sea State	Calm
I22	13 Feb 2020	High Tide (ft)	4.31
I22	13 Feb 2020	High Tide Time	1151
I22	13 Feb 2020	Low Tide (ft)	0.91
I22	13 Feb 2020	Low Tide Time	604
I22	13 Feb 2020	Comments	none
I23	13 Feb 2020	Depth (m)	22
I23	13 Feb 2020	Arrive Time	945
I23	13 Feb 2020	Depart Time	951
I23	13 Feb 2020	Air Temp (C)	13
I23	13 Feb 2020	Weather	Haze
I23	13 Feb 2020	Visibility (mi)	12
I23	13 Feb 2020	Wind Speed (kts)	2
I23	13 Feb 2020	Wind Dir	W
I23	13 Feb 2020	Water Color	Bluish-Green
I23	13 Feb 2020	Wave Ht Low (ft)	3
I23	13 Feb 2020	Wave Period (sec)	9
I23	13 Feb 2020	Sea State	Calm
I23	13 Feb 2020	High Tide (ft)	4.31
I23	13 Feb 2020	High Tide Time	1151
I23	13 Feb 2020	Low Tide (ft)	0.91
I23	13 Feb 2020	Low Tide Time	604
I23	13 Feb 2020	Comments	none
I27	13 Feb 2020	Depth (m)	29

Station	Date	Parameter	Value
I27	13 Feb 2020	Arrive Time	910
I27	13 Feb 2020	Depart Time	918
I27	13 Feb 2020	Air Temp (C)	12
I27	13 Feb 2020	Weather	Haze
I27	13 Feb 2020	Visibility (mi)	12
I27	13 Feb 2020	Wind Speed (kts)	4
I27	13 Feb 2020	Wind Dir	W
I27	13 Feb 2020	Water Color	Blue
I27	13 Feb 2020	Wave Ht Low (ft)	3
I27	13 Feb 2020	Wave Period (sec)	9
I27	13 Feb 2020	Sea State	Calm
I27	13 Feb 2020	High Tide (ft)	4.31
I27	13 Feb 2020	High Tide Time	1151
I27	13 Feb 2020	Low Tide (ft)	0.91
I27	13 Feb 2020	Low Tide Time	604
I27	13 Feb 2020	Comments	none
I28	14 Feb 2020	Depth (m)	56
I28	14 Feb 2020	Arrive Time	905
I28	14 Feb 2020	Depart Time	913
I28	14 Feb 2020	Air Temp (C)	13
I28	14 Feb 2020	Weather	Haze
I28	14 Feb 2020	Visibility (mi)	9
I28	14 Feb 2020	Wind Speed (kts)	4
I28	14 Feb 2020	Wind Dir	N
I28	14 Feb 2020	Water Color	Green
I28	14 Feb 2020	Wave Ht Low (ft)	3
I28	14 Feb 2020	Wave Period (sec)	13
I28	14 Feb 2020	Sea State	Calm
I28	14 Feb 2020	High Tide (ft)	3.45
I28	14 Feb 2020	High Tide Time	1303
I28	14 Feb 2020	Low Tide (ft)	0.96
I28	14 Feb 2020	Low Tide Time	720
I28	14 Feb 2020	Comments	
I29	14 Feb 2020	Depth (m)	37
I29	14 Feb 2020	Arrive Time	927
I29	14 Feb 2020	Depart Time	931
I29	14 Feb 2020	Air Temp (C)	12
I29	14 Feb 2020	Weather	Haze
I29	14 Feb 2020	Visibility (mi)	9
I29	14 Feb 2020	Wind Speed (kts)	5
I29	14 Feb 2020	Wind Dir	NW
I29	14 Feb 2020	Water Color	Green
I29	14 Feb 2020	Wave Ht Low (ft)	3
I29	14 Feb 2020	Wave Period (sec)	13
I29	14 Feb 2020	Sea State	Calm
I29	14 Feb 2020	High Tide (ft)	3.45
I29	14 Feb 2020	High Tide Time	1303
I29	14 Feb 2020	Low Tide (ft)	0.96
I29	14 Feb 2020	Low Tide Time	720
I29	14 Feb 2020	Comments	none
I3	12 Feb 2020	Depth (m)	27
I3	12 Feb 2020	Arrive Time	1039

Station	Date	Parameter	Value
I3	12 Feb 2020	Depart Time	1046
I3	12 Feb 2020	Air Temp (C)	14
I3	12 Feb 2020	Weather	Haze
I3	12 Feb 2020	Visibility (mi)	12
I3	12 Feb 2020	Wind Speed (kts)	5
I3	12 Feb 2020	Wind Dir	SE
I3	12 Feb 2020	Water Color	Bluish-Green
I3	12 Feb 2020	Wave Ht Low (ft)	2
I3	12 Feb 2020	Wave Period (sec)	13
I3	12 Feb 2020	Sea State	Calm
I3	12 Feb 2020	High Tide (ft)	5.17
I3	12 Feb 2020	High Tide Time	1054
I3	12 Feb 2020	Low Tide (ft)	0.83
I3	12 Feb 2020	Low Tide Time	501
I3	12 Feb 2020	Comments	none
I30	14 Feb 2020	Depth (m)	28
I30	14 Feb 2020	Arrive Time	939
I30	14 Feb 2020	Depart Time	947
I30	14 Feb 2020	Air Temp (C)	13
I30	14 Feb 2020	Weather	Haze
I30	14 Feb 2020	Visibility (mi)	9
I30	14 Feb 2020	Wind Speed (kts)	4
I30	14 Feb 2020	Wind Dir	NW
I30	14 Feb 2020	Water Color	Green
I30	14 Feb 2020	Wave Ht Low (ft)	3
I30	14 Feb 2020	Wave Period (sec)	13
I30	14 Feb 2020	Sea State	Calm
I30	14 Feb 2020	High Tide (ft)	3.45
I30	14 Feb 2020	High Tide Time	1303
I30	14 Feb 2020	Low Tide (ft)	0.96
I30	14 Feb 2020	Low Tide Time	720
I30	14 Feb 2020	Comments	none
I31	14 Feb 2020	Depth (m)	20
I31	14 Feb 2020	Arrive Time	954
I31	14 Feb 2020	Depart Time	958
I31	14 Feb 2020	Air Temp (C)	13
I31	14 Feb 2020	Weather	Haze
I31	14 Feb 2020	Visibility (mi)	9
I31	14 Feb 2020	Wind Speed (kts)	4
I31	14 Feb 2020	Wind Dir	W
I31	14 Feb 2020	Water Color	Green
I31	14 Feb 2020	Wave Ht Low (ft)	3
I31	14 Feb 2020	Wave Period (sec)	13
I31	14 Feb 2020	Sea State	Calm
I31	14 Feb 2020	High Tide (ft)	3.45
I31	14 Feb 2020	High Tide Time	1303
I31	14 Feb 2020	Low Tide (ft)	0.96
I31	14 Feb 2020	Low Tide Time	720
I31	14 Feb 2020	Comments	none
I33	14 Feb 2020	Depth (m)	30
I33	14 Feb 2020	Arrive Time	847
I33	14 Feb 2020	Depart Time	854

Station	Date	Parameter	Value
I33	14 Feb 2020	Air Temp (C)	12
I33	14 Feb 2020	Weather	Haze
I33	14 Feb 2020	Visibility (mi)	9
I33	14 Feb 2020	Wind Speed (kts)	6
I33	14 Feb 2020	Wind Dir	N
I33	14 Feb 2020	Water Color	Green
I33	14 Feb 2020	Wave Ht Low (ft)	3
I33	14 Feb 2020	Wave Period (sec)	13
I33	14 Feb 2020	Sea State	Calm
I33	14 Feb 2020	High Tide (ft)	3.45
I33	14 Feb 2020	High Tide Time	1303
I33	14 Feb 2020	Low Tide (ft)	0.96
I33	14 Feb 2020	Low Tide Time	720
I33	14 Feb 2020	Comments	none
I34	14 Feb 2020	Depth (m)	19
I34	14 Feb 2020	Arrive Time	836
I34	14 Feb 2020	Depart Time	841
I34	14 Feb 2020	Air Temp (C)	12
I34	14 Feb 2020	Weather	Haze
I34	14 Feb 2020	Visibility (mi)	9
I34	14 Feb 2020	Wind Speed (kts)	4
I34	14 Feb 2020	Wind Dir	N
I34	14 Feb 2020	Water Color	Green
I34	14 Feb 2020	Wave Ht Low (ft)	3
I34	14 Feb 2020	Wave Period (sec)	13
I34	14 Feb 2020	Sea State	Calm
I34	14 Feb 2020	High Tide (ft)	3.45
I34	14 Feb 2020	High Tide Time	1303
I34	14 Feb 2020	Low Tide (ft)	0.96
I34	14 Feb 2020	Low Tide Time	720
I34	14 Feb 2020	Comments	none
I35	14 Feb 2020	Depth (m)	20
I35	14 Feb 2020	Arrive Time	1027
I35	14 Feb 2020	Depart Time	1037
I35	14 Feb 2020	Air Temp (C)	14
I35	14 Feb 2020	Weather	Clear
I35	14 Feb 2020	Visibility (mi)	9
I35	14 Feb 2020	Wind Speed (kts)	1
I35	14 Feb 2020	Wind Dir	SW
I35	14 Feb 2020	Water Color	Green
I35	14 Feb 2020	Wave Ht Low (ft)	3
I35	14 Feb 2020	Wave Period (sec)	13
I35	14 Feb 2020	Sea State	Calm
I35	14 Feb 2020	High Tide (ft)	3.45
I35	14 Feb 2020	High Tide Time	1303
I35	14 Feb 2020	Low Tide (ft)	0.96
I35	14 Feb 2020	Low Tide Time	720
I35	14 Feb 2020	Comments	none
I36	14 Feb 2020	Depth (m)	12
I36	14 Feb 2020	Arrive Time	1013
I36	14 Feb 2020	Depart Time	1018
I36	14 Feb 2020	Air Temp (C)	13

Station	Date	Parameter	Value
I36	14 Feb 2020	Weather	Haze
I36	14 Feb 2020	Visibility (mi)	9
I36	14 Feb 2020	Wind Speed (kts)	1
I36	14 Feb 2020	Wind Dir	SW
I36	14 Feb 2020	Water Color	Green
I36	14 Feb 2020	Wave Ht Low (ft)	3
I36	14 Feb 2020	Wave Period (sec)	13
I36	14 Feb 2020	Sea State	Calm
I36	14 Feb 2020	High Tide (ft)	3.45
I36	14 Feb 2020	High Tide Time	1303
I36	14 Feb 2020	Low Tide (ft)	0.96
I36	14 Feb 2020	Low Tide Time	720
I36	14 Feb 2020	Comments	none
I37	14 Feb 2020	Depth (m)	13
I37	14 Feb 2020	Arrive Time	820
I37	14 Feb 2020	Depart Time	828
I37	14 Feb 2020	Air Temp (C)	11
I37	14 Feb 2020	Weather	Haze
I37	14 Feb 2020	Visibility (mi)	8
I37	14 Feb 2020	Wind Speed (kts)	4
I37	14 Feb 2020	Wind Dir	N
I37	14 Feb 2020	Water Color	Green
I37	14 Feb 2020	Wave Ht Low (ft)	3
I37	14 Feb 2020	Wave Period (sec)	13
I37	14 Feb 2020	Sea State	Calm
I37	14 Feb 2020	High Tide (ft)	3.45
I37	14 Feb 2020	High Tide Time	1303
I37	14 Feb 2020	Low Tide (ft)	0.96
I37	14 Feb 2020	Low Tide Time	720
I37	14 Feb 2020	Comments	none
I38	14 Feb 2020	Depth (m)	13
I38	14 Feb 2020	Arrive Time	1043
I38	14 Feb 2020	Depart Time	1049
I38	14 Feb 2020	Air Temp (C)	15
I38	14 Feb 2020	Weather	Clear
I38	14 Feb 2020	Visibility (mi)	9
I38	14 Feb 2020	Wind Speed (kts)	3
I38	14 Feb 2020	Wind Dir	SW
I38	14 Feb 2020	Water Color	Green
I38	14 Feb 2020	Wave Ht Low (ft)	3
I38	14 Feb 2020	Wave Period (sec)	13
I38	14 Feb 2020	Sea State	Calm
I38	14 Feb 2020	High Tide (ft)	3.45
I38	14 Feb 2020	High Tide Time	1303
I38	14 Feb 2020	Low Tide (ft)	0.96
I38	14 Feb 2020	Low Tide Time	720
I38	14 Feb 2020	Comments	none
I4	12 Feb 2020	Depth (m)	17
I4	12 Feb 2020	Arrive Time	1052
I4	12 Feb 2020	Depart Time	1056
I4	12 Feb 2020	Air Temp (C)	14
I4	12 Feb 2020	Weather	Haze

Station	Date	Parameter	Value
14	12 Feb 2020	Visibility (mi)	12
14	12 Feb 2020	Wind Speed (kts)	6
14	12 Feb 2020	Wind Dir	E
14	12 Feb 2020	Water Color	Bluish-Green
14	12 Feb 2020	Wave Ht Low (ft)	2
14	12 Feb 2020	Wave Period (sec)	13
14	12 Feb 2020	Sea State	Calm
14	12 Feb 2020	High Tide (ft)	5.17
14	12 Feb 2020	High Tide Time	1054
14	12 Feb 2020	Low Tide (ft)	0.83
14	12 Feb 2020	Low Tide Time	501
14	12 Feb 2020	Comments	none
15	12 Feb 2020	Depth (m)	14
15	12 Feb 2020	Arrive Time	1101
15	12 Feb 2020	Depart Time	1104
15	12 Feb 2020	Air Temp (C)	14
15	12 Feb 2020	Weather	Haze
15	12 Feb 2020	Visibility (mi)	12
15	12 Feb 2020	Wind Speed (kts)	7
15	12 Feb 2020	Wind Dir	E
15	12 Feb 2020	Water Color	Bluish-Green
15	12 Feb 2020	Wave Ht Low (ft)	2
15	12 Feb 2020	Wave Period (sec)	13
15	12 Feb 2020	Sea State	Calm
15	12 Feb 2020	High Tide (ft)	5.17
15	12 Feb 2020	High Tide Time	1054
15	12 Feb 2020	Low Tide (ft)	0.83
15	12 Feb 2020	Low Tide Time	501
15	12 Feb 2020	Comments	none
16	12 Feb 2020	Depth (m)	20
16	12 Feb 2020	Arrive Time	1112
16	12 Feb 2020	Depart Time	1119
16	12 Feb 2020	Air Temp (C)	14
16	12 Feb 2020	Weather	Haze
16	12 Feb 2020	Visibility (mi)	12
16	12 Feb 2020	Wind Speed (kts)	13
16	12 Feb 2020	Wind Dir	SW
16	12 Feb 2020	Water Color	Bluish-Green
16	12 Feb 2020	Wave Ht Low (ft)	2
16	12 Feb 2020	Wave Period (sec)	13
16	12 Feb 2020	Sea State	Calm
16	12 Feb 2020	High Tide (ft)	5.17
16	12 Feb 2020	High Tide Time	1054
16	12 Feb 2020	Low Tide (ft)	0.83
16	12 Feb 2020	Low Tide Time	501
16	12 Feb 2020	Comments	none
17	12 Feb 2020	Depth (m)	52
17	12 Feb 2020	Arrive Time	925
17	12 Feb 2020	Depart Time	936
17	12 Feb 2020	Air Temp (C)	14
17	12 Feb 2020	Weather	Haze
17	12 Feb 2020	Visibility (mi)	12

Station	Date	Parameter	Value
17	12 Feb 2020	Wind Speed (kts)	6
17	12 Feb 2020	Wind Dir	SE
17	12 Feb 2020	Water Color	Blue
17	12 Feb 2020	Wave Ht Low (ft)	2
17	12 Feb 2020	Wave Period (sec)	13
17	12 Feb 2020	Sea State	Calm
17	12 Feb 2020	High Tide (ft)	5.17
17	12 Feb 2020	High Tide Time	1054
17	12 Feb 2020	Low Tide (ft)	0.83
17	12 Feb 2020	Low Tide Time	501
17	12 Feb 2020	Comments	none
18	12 Feb 2020	Depth (m)	37
18	12 Feb 2020	Arrive Time	1204
18	12 Feb 2020	Depart Time	1216
18	12 Feb 2020	Air Temp (C)	15
18	12 Feb 2020	Weather	Haze
18	12 Feb 2020	Visibility (mi)	12
18	12 Feb 2020	Wind Speed (kts)	9
18	12 Feb 2020	Wind Dir	SW
18	12 Feb 2020	Water Color	Bluish-Green
18	12 Feb 2020	Wave Ht Low (ft)	2
18	12 Feb 2020	Wave Period (sec)	13
18	12 Feb 2020	Sea State	Calm
18	12 Feb 2020	High Tide (ft)	5.17
18	12 Feb 2020	High Tide Time	1054
18	12 Feb 2020	Low Tide (ft)	0.83
18	12 Feb 2020	Low Tide Time	501
18	12 Feb 2020	Comments	none
19	12 Feb 2020	Depth (m)	30
19	12 Feb 2020	Arrive Time	1152
19	12 Feb 2020	Depart Time	1159
19	12 Feb 2020	Air Temp (C)	15
19	12 Feb 2020	Weather	Haze
19	12 Feb 2020	Visibility (mi)	12
19	12 Feb 2020	Wind Speed (kts)	5
19	12 Feb 2020	Wind Dir	E
19	12 Feb 2020	Water Color	Bluish-Green
19	12 Feb 2020	Wave Ht Low (ft)	2
19	12 Feb 2020	Wave Period (sec)	13
19	12 Feb 2020	Sea State	Calm
19	12 Feb 2020	High Tide (ft)	5.17
19	12 Feb 2020	High Tide Time	1054
19	12 Feb 2020	Low Tide (ft)	0.83
19	12 Feb 2020	Low Tide Time	501
19	12 Feb 2020	Comments	none

Table 4.7

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

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I1	12 Feb 2020	1	15.48	91.12	7.9	33.44	8.1	24.7	0.23
I1	12 Feb 2020	2	15.47	91.12	7.9	33.45	8.1	24.7	0.24
I1	12 Feb 2020	3	15.44	91.16	7.8	33.44	8.1	24.7	0.23
I1	12 Feb 2020	4	15.43	91.17	7.9	33.44	8.1	24.7	0.24
I1	12 Feb 2020	5	15.43	91.12	7.9	33.44	8.1	24.7	0.25
I1	12 Feb 2020	6	15.43	91.15	7.8	33.44	8.1	24.7	0.25
I1	12 Feb 2020	7	15.42	91.15	7.8	33.44	8.1	24.7	0.24
I1	12 Feb 2020	8	15.42	91.10	7.8	33.44	8.1	24.7	0.25
I1	12 Feb 2020	9	15.42	91.16	7.8	33.44	8.1	24.7	0.26
I1	12 Feb 2020	10	15.42	91.15	7.9	33.44	8.1	24.7	0.26
I1	12 Feb 2020	11	15.42	91.14	7.8	33.44	8.1	24.7	0.26
I1	12 Feb 2020	12	15.41	91.11	7.8	33.45	8.1	24.7	0.27
I1	12 Feb 2020	13	15.40	91.12	7.9	33.45	8.1	24.7	0.28
I1	12 Feb 2020	14	15.40	91.09	7.9	33.45	8.1	24.7	0.28
I1	12 Feb 2020	15	15.39	91.09	7.8	33.45	8.1	24.7	0.29
I1	12 Feb 2020	16	15.38	91.06	7.9	33.45	8.1	24.7	0.30
I1	12 Feb 2020	17	15.38	90.96	7.9	33.45	8.1	24.7	0.33
I1	12 Feb 2020	18	15.35	90.90	7.8	33.46	8.1	24.7	0.34
I1	12 Feb 2020	19	15.34	90.88	7.8	33.46	8.1	24.7	0.35
I1	12 Feb 2020	20	15.34	90.83	7.9	33.46	8.1	24.7	0.39
I1	12 Feb 2020	21	15.34	90.77	7.9	33.46	8.1	24.7	0.40
I1	12 Feb 2020	22	15.33	90.77	7.9	33.46	8.1	24.7	0.42
I1	12 Feb 2020	23	15.33	90.79	7.9	33.46	8.1	24.7	0.47
I1	12 Feb 2020	24	15.33	90.75	7.9	33.46	8.1	24.7	0.49
I1	12 Feb 2020	25	15.33	90.73	7.9	33.47	8.1	24.7	0.49
I1	12 Feb 2020	26	15.33	90.70	7.9	33.47	8.1	24.7	0.52
I1	12 Feb 2020	27	15.33	90.72	7.9	33.47	8.1	24.7	0.54
I1	12 Feb 2020	28	15.34	90.71	7.9	33.48	8.1	24.7	0.56
I1	12 Feb 2020	29	15.34	90.71	7.9	33.48	8.1	24.7	0.57
I1	12 Feb 2020	30	15.36	90.69	7.9	33.48	8.1	24.7	0.57
I1	12 Feb 2020	31	15.36	90.68	7.9	33.51	8.1	24.7	0.58
I1	12 Feb 2020	32	15.33	90.53	7.9	33.51	8.1	24.8	0.62
I1	12 Feb 2020	33	15.29	90.34	7.9	33.51	8.1	24.8	0.70
I1	12 Feb 2020	34	15.27	90.22	7.9	33.52	8.1	24.8	0.82
I1	12 Feb 2020	35	15.19	90.15	7.9	33.52	8.1	24.8	0.89
I1	12 Feb 2020	36	15.08	90.08	7.8	33.54	8.1	24.8	1.06
I1	12 Feb 2020	37	14.55	89.99	7.6	33.55	8.1	25.0	1.13
I1	12 Feb 2020	38	14.32	90.07	7.5	33.51	8.1	25.0	1.34
I1	12 Feb 2020	39	14.23	90.03	7.4	33.51	8.0	25.0	1.35
I1	12 Feb 2020	40	14.14	90.11	7.3	33.51	8.0	25.0	1.49
I1	12 Feb 2020	41	14.09	90.18	7.3	33.51	8.0	25.0	1.51
I1	12 Feb 2020	42	14.03	90.21	7.2	33.52	8.0	25.0	1.42
I1	12 Feb 2020	43	13.93	90.24	7.1	33.53	8.0	25.1	1.33
I1	12 Feb 2020	44	13.79	90.31	7.0	33.55	8.0	25.1	1.36
I1	12 Feb 2020	45	13.58	90.56	6.9	33.57	8.0	25.2	1.26
I1	12 Feb 2020	46	13.44	90.70	6.8	33.57	8.0	25.2	1.21
I1	12 Feb 2020	47	13.37	90.72	6.7	33.58	8.0	25.2	1.17
I1	12 Feb 2020	48	13.31	90.78	6.7	33.57	8.0	25.2	1.04
I1	12 Feb 2020	49	13.25	90.83	6.6	33.58	8.0	25.2	1.01
I1	12 Feb 2020	50	13.20	90.87	6.6	33.58	8.0	25.3	0.98
I1	12 Feb 2020	51	13.19	90.91	6.5	33.58	8.0	25.3	0.95

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I1	12 Feb 2020	52	13.12	90.92	6.5	33.59	8.0	25.3	0.90
I1	12 Feb 2020	53	13.07	90.94	6.4	33.59	8.0	25.3	0.84
I1	12 Feb 2020	54	13.03	90.95	6.4	33.59	8.0	25.3	0.85
I1	12 Feb 2020	55	13.00	90.95	6.3	33.60	8.0	25.3	0.83
I1	12 Feb 2020	56	12.98	91.00	6.4	33.59	8.0	25.3	0.82
I1	12 Feb 2020	57	12.96	90.96	6.3	33.60	8.0	25.3	0.76
I1	12 Feb 2020	58	12.93	90.95	6.3	33.60	8.0	25.3	0.77
I1	12 Feb 2020	59	12.85	90.99	6.2	33.61	8.0	25.3	0.79
I1	12 Feb 2020	60	12.79	90.98	6.2	33.61	7.9	25.4	0.77
I10	12 Feb 2020	1	15.11	81.50	8.1	33.44	8.1	24.7	0.86
I10	12 Feb 2020	2	15.09	82.45	8.2	33.45	8.1	24.8	0.83
I10	12 Feb 2020	3	15.08	82.55	8.2	33.44	8.1	24.8	0.91
I10	12 Feb 2020	4	15.06	82.49	8.2	33.45	8.1	24.8	1.02
I10	12 Feb 2020	5	15.04	82.19	8.2	33.45	8.1	24.8	1.11
I10	12 Feb 2020	6	15.02	81.86	8.2	33.44	8.1	24.8	1.25
I10	12 Feb 2020	7	14.97	81.73	8.2	33.45	8.1	24.8	1.53
I10	12 Feb 2020	8	14.93	81.57	8.2	33.45	8.1	24.8	1.61
I10	12 Feb 2020	9	14.89	81.88	8.2	33.45	8.1	24.8	1.85
I10	12 Feb 2020	10	14.88	82.11	8.2	33.45	8.1	24.8	2.05
I10	12 Feb 2020	11	14.87	83.08	8.2	33.46	8.1	24.8	2.21
I10	12 Feb 2020	12	14.78	83.66	8.1	33.48	8.1	24.8	2.23
I10	12 Feb 2020	13	14.72	83.66	8.0	33.47	8.1	24.9	2.21
I10	12 Feb 2020	14	14.64	83.39	7.9	33.50	8.1	24.9	2.19
I10	12 Feb 2020	15	14.34	82.72	7.7	33.51	8.1	25.0	2.42
I10	12 Feb 2020	16	14.31	85.43	7.5	33.54	8.1	25.0	2.43
I10	12 Feb 2020	17	13.89	85.93	7.3	33.54	8.0	25.1	2.41
I10	12 Feb 2020	18	13.85	86.17	7.1	33.52	8.0	25.1	2.17
I10	12 Feb 2020	19	13.80	86.27	7.1	33.53	8.0	25.1	2.14
I11	12 Feb 2020	1	15.11	81.63	8.2	33.48	8.1	24.8	0.84
I11	12 Feb 2020	2	15.09	82.22	8.2	33.48	8.1	24.8	0.83
I11	12 Feb 2020	3	15.05	82.75	8.2	33.48	8.1	24.8	0.87
I11	12 Feb 2020	4	15.00	82.56	8.2	33.49	8.1	24.8	0.99
I11	12 Feb 2020	5	14.95	82.33	8.2	33.48	8.1	24.8	1.09
I11	12 Feb 2020	6	14.94	82.15	8.2	33.48	8.1	24.8	1.23
I11	12 Feb 2020	7	14.93	81.76	8.2	33.48	8.1	24.8	1.45
I11	12 Feb 2020	8	14.91	81.74	8.2	33.48	8.1	24.8	1.63
I11	12 Feb 2020	9	14.87	81.87	8.1	33.48	8.1	24.8	1.99
I11	12 Feb 2020	10	14.83	82.07	8.1	33.48	8.1	24.8	2.31
I11	12 Feb 2020	11	14.77	83.55	7.9	33.49	8.1	24.9	2.47
I11	12 Feb 2020	12	14.53	83.42	7.5	33.53	8.1	24.9	2.54
I11	12 Feb 2020	13	14.42	76.95	7.3	33.53	8.0	25.0	2.49
I12	13 Feb 2020	1	14.27	86.58	7.4	33.32	8.0	24.8	0.98
I12	13 Feb 2020	2	14.27	86.56	7.4	33.32	8.0	24.8	0.94
I12	13 Feb 2020	3	14.24	86.57	7.3	33.33	8.0	24.8	0.92
I12	13 Feb 2020	4	14.22	86.48	7.3	33.33	8.0	24.8	0.98
I12	13 Feb 2020	5	14.21	86.50	7.3	33.33	8.0	24.9	0.95
I12	13 Feb 2020	6	14.20	86.48	7.3	33.34	8.0	24.9	0.96
I12	13 Feb 2020	7	14.20	86.69	7.3	33.35	8.0	24.9	1.02
I12	13 Feb 2020	8	14.19	86.71	7.3	33.36	8.0	24.9	1.05
I12	13 Feb 2020	9	14.18	86.73	7.3	33.37	8.0	24.9	1.09
I12	13 Feb 2020	10	14.16	86.93	7.3	33.36	8.0	24.9	1.17
I12	13 Feb 2020	11	14.17	86.90	7.3	33.37	8.0	24.9	1.27

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I12	13 Feb 2020	12	14.22	86.94	7.3	33.38	8.0	24.9	1.31
I12	13 Feb 2020	13	14.28	87.14	7.3	33.41	8.0	24.9	1.48
I12	13 Feb 2020	14	14.29	87.27	7.4	33.42	8.0	24.9	1.57
I12	13 Feb 2020	15	14.30	87.31	7.4	33.43	8.0	24.9	1.61
I12	13 Feb 2020	16	14.35	87.42	7.4	33.44	8.0	24.9	1.72
I12	13 Feb 2020	17	14.38	87.43	7.5	33.47	8.0	24.9	1.66
I12	13 Feb 2020	18	14.35	87.38	7.5	33.48	8.0	24.9	1.75
I12	13 Feb 2020	19	14.33	87.41	7.4	33.48	8.0	24.9	1.76
I12	13 Feb 2020	20	14.31	87.46	7.4	33.49	8.0	25.0	1.78
I12	13 Feb 2020	21	14.30	87.71	7.4	33.50	8.0	25.0	1.86
I12	13 Feb 2020	22	14.28	88.11	7.4	33.51	8.0	25.0	1.89
I12	13 Feb 2020	23	14.16	88.16	7.3	33.52	8.0	25.0	1.72
I12	13 Feb 2020	24	14.00	87.93	7.2	33.51	8.0	25.0	1.73
I12	13 Feb 2020	25	13.84	87.72	7.1	33.53	8.0	25.1	1.82
I12	13 Feb 2020	26	13.75	87.09	7.0	33.53	8.0	25.1	1.97
I12	13 Feb 2020	27	13.64	86.11	6.9	33.54	8.0	25.1	1.94
I12	13 Feb 2020	28	13.62	85.18	6.8	33.53	8.0	25.1	2.03
I13	13 Feb 2020	1	15.22	90.20	7.8	33.50	8.1	24.8	0.38
I13	13 Feb 2020	2	15.17	90.13	7.8	33.50	8.1	24.8	0.38
I13	13 Feb 2020	3	15.12	89.99	7.9	33.50	8.1	24.8	0.39
I13	13 Feb 2020	4	15.10	89.92	7.9	33.50	8.1	24.8	0.42
I13	13 Feb 2020	5	15.09	89.75	7.9	33.50	8.1	24.8	0.43
I13	13 Feb 2020	6	15.08	89.74	7.9	33.50	8.1	24.8	0.44
I13	13 Feb 2020	7	15.07	89.71	7.8	33.50	8.1	24.8	0.45
I13	13 Feb 2020	8	15.06	89.66	7.8	33.50	8.1	24.8	0.46
I13	13 Feb 2020	9	15.05	89.59	7.8	33.50	8.1	24.8	0.50
I13	13 Feb 2020	10	15.04	89.47	7.8	33.50	8.1	24.8	0.54
I13	13 Feb 2020	11	15.02	89.55	7.8	33.50	8.1	24.8	0.59
I13	13 Feb 2020	12	15.00	89.58	7.8	33.50	8.1	24.8	0.61
I13	13 Feb 2020	13	14.97	89.60	7.8	33.51	8.1	24.8	0.61
I13	13 Feb 2020	14	14.96	89.48	7.8	33.51	8.1	24.8	0.68
I13	13 Feb 2020	15	14.95	89.38	7.8	33.50	8.1	24.8	0.75
I13	13 Feb 2020	16	14.94	89.36	7.8	33.51	8.1	24.8	0.87
I13	13 Feb 2020	17	14.93	89.29	7.8	33.51	8.1	24.8	0.86
I13	13 Feb 2020	18	14.92	89.18	7.8	33.51	8.1	24.8	0.95
I13	13 Feb 2020	19	14.90	89.09	7.8	33.51	8.1	24.8	1.04
I13	13 Feb 2020	20	14.89	88.97	7.8	33.51	8.1	24.8	1.08
I13	13 Feb 2020	21	14.88	88.96	7.8	33.51	8.1	24.8	1.10
I13	13 Feb 2020	22	14.87	88.96	7.8	33.51	8.1	24.9	1.19
I13	13 Feb 2020	23	14.85	88.93	7.7	33.51	8.1	24.9	1.29
I13	13 Feb 2020	24	14.84	89.03	7.7	33.51	8.1	24.9	1.22
I13	13 Feb 2020	25	14.82	89.05	7.7	33.51	8.1	24.9	1.30
I13	13 Feb 2020	26	14.78	89.17	7.7	33.52	8.1	24.9	1.35
I13	13 Feb 2020	27	14.74	89.32	7.6	33.51	8.1	24.9	1.44
I13	13 Feb 2020	28	14.67	89.60	7.6	33.53	8.1	24.9	1.37
I13	13 Feb 2020	29	14.46	89.62	7.5	33.54	8.0	25.0	1.38
I13	13 Feb 2020	30	14.20	89.56	7.3	33.56	8.0	25.0	1.42
I13	13 Feb 2020	31	14.00	89.70	7.2	33.55	8.0	25.1	1.30
I13	13 Feb 2020	32	13.86	89.66	7.2	33.55	8.0	25.1	1.32
I13	13 Feb 2020	33	13.75	89.19	7.0	33.54	8.0	25.1	1.45
I13	13 Feb 2020	34	13.71	88.96	7.0	33.53	8.0	25.1	1.60
I13	13 Feb 2020	35	13.71	88.76	7.0	33.53	8.0	25.1	1.55
I13	13 Feb 2020	36	13.70	88.58	7.0	33.53	8.0	25.1	1.61
I13	13 Feb 2020	37	13.61	88.54	6.9	33.54	8.0	25.1	1.58

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I13	13 Feb 2020	38	13.55	87.54	6.8	33.53	8.0	25.1	1.68
I14	13 Feb 2020	1	15.09	86.70	7.9	33.52	8.1	24.8	0.57
I14	13 Feb 2020	2	14.97	86.65	8.0	33.52	8.1	24.8	0.58
I14	13 Feb 2020	3	14.92	86.23	8.0	33.51	8.1	24.8	0.60
I14	13 Feb 2020	4	14.90	86.20	8.0	33.51	8.1	24.8	0.65
I14	13 Feb 2020	5	14.88	85.96	8.0	33.51	8.1	24.8	0.71
I14	13 Feb 2020	6	14.87	86.00	7.9	33.51	8.1	24.9	0.87
I14	13 Feb 2020	7	14.86	85.94	7.9	33.51	8.1	24.9	0.86
I14	13 Feb 2020	8	14.85	85.83	7.9	33.51	8.1	24.9	0.93
I14	13 Feb 2020	9	14.84	86.09	8.0	33.51	8.1	24.9	1.05
I14	13 Feb 2020	10	14.84	85.97	7.9	33.51	8.1	24.9	1.11
I14	13 Feb 2020	11	14.83	85.92	7.9	33.51	8.1	24.9	1.24
I14	13 Feb 2020	12	14.82	85.89	7.9	33.51	8.1	24.9	1.41
I14	13 Feb 2020	13	14.80	85.94	7.9	33.51	8.1	24.9	1.52
I14	13 Feb 2020	14	14.78	86.14	7.9	33.51	8.1	24.9	1.57
I14	13 Feb 2020	15	14.75	86.37	7.8	33.51	8.1	24.9	1.71
I14	13 Feb 2020	16	14.72	86.73	7.8	33.51	8.1	24.9	1.75
I14	13 Feb 2020	17	14.68	87.01	7.8	33.52	8.1	24.9	1.73
I14	13 Feb 2020	18	14.65	87.34	7.7	33.52	8.1	24.9	1.77
I14	13 Feb 2020	19	14.56	87.88	7.6	33.52	8.1	24.9	1.67
I14	13 Feb 2020	20	14.46	88.09	7.5	33.53	8.1	25.0	1.55
I14	13 Feb 2020	21	14.27	88.23	7.5	33.54	8.0	25.0	1.51
I14	13 Feb 2020	22	14.21	88.28	7.4	33.53	8.0	25.0	1.63
I14	13 Feb 2020	23	14.01	88.17	7.3	33.55	8.0	25.1	1.59
I14	13 Feb 2020	24	13.99	88.31	7.2	33.52	8.0	25.1	1.68
I14	13 Feb 2020	25	13.88	88.06	7.2	33.54	8.0	25.1	1.70
I14	13 Feb 2020	26	13.78	87.69	7.1	33.54	8.0	25.1	1.55
I14	13 Feb 2020	27	13.68	86.92	7.0	33.54	8.0	25.1	1.86
I14	13 Feb 2020	28	13.66	86.19	6.9	33.53	8.0	25.1	2.00
I15	13 Feb 2020	1	15.09	88.41	7.9	33.51	8.1	24.8	0.53
I15	13 Feb 2020	2	15.02	88.59	7.9	33.52	8.1	24.8	0.52
I15	13 Feb 2020	3	14.95	88.28	7.9	33.51	8.1	24.8	0.54
I15	13 Feb 2020	4	14.93	87.78	7.9	33.51	8.1	24.8	0.57
I15	13 Feb 2020	5	14.93	87.74	7.9	33.51	8.1	24.8	0.64
I15	13 Feb 2020	6	14.91	87.70	7.9	33.51	8.1	24.8	0.72
I15	13 Feb 2020	7	14.90	87.52	7.9	33.51	8.1	24.8	0.81
I15	13 Feb 2020	8	14.90	87.62	7.9	33.51	8.1	24.8	0.84
I15	13 Feb 2020	9	14.89	87.67	7.9	33.51	8.1	24.8	0.91
I15	13 Feb 2020	10	14.88	87.63	7.9	33.51	8.1	24.8	1.02
I15	13 Feb 2020	11	14.87	87.61	7.9	33.51	8.1	24.8	1.11
I15	13 Feb 2020	12	14.87	87.63	7.9	33.51	8.1	24.9	1.25
I15	13 Feb 2020	13	14.85	87.85	7.8	33.51	8.1	24.9	1.44
I15	13 Feb 2020	14	14.83	87.90	7.8	33.51	8.1	24.9	1.41
I15	13 Feb 2020	15	14.79	87.85	7.8	33.51	8.1	24.9	1.49
I15	13 Feb 2020	16	14.73	88.14	7.7	33.52	8.1	24.9	1.53
I15	13 Feb 2020	17	14.67	88.18	7.7	33.52	8.1	24.9	1.53
I15	13 Feb 2020	18	14.62	88.35	7.6	33.52	8.1	24.9	1.52
I15	13 Feb 2020	19	14.58	88.60	7.6	33.52	8.1	24.9	1.47
I15	13 Feb 2020	20	14.54	88.88	7.5	33.52	8.1	24.9	1.46
I15	13 Feb 2020	21	14.45	89.08	7.5	33.53	8.0	25.0	1.35
I15	13 Feb 2020	22	14.36	89.28	7.4	33.53	8.0	25.0	1.33
I15	13 Feb 2020	23	14.28	89.26	7.3	33.53	8.0	25.0	1.24
I15	13 Feb 2020	24	14.14	89.21	7.3	33.54	8.0	25.0	1.25

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I15	13 Feb 2020	25	13.97	89.20	7.2	33.54	8.0	25.1	1.35
I15	13 Feb 2020	26	13.95	89.23	7.2	33.53	8.0	25.1	1.49
I15	13 Feb 2020	27	13.80	89.02	7.1	33.53	8.0	25.1	1.46
I15	13 Feb 2020	28	13.73	88.48	7.0	33.53	8.0	25.1	1.62
I15	13 Feb 2020	29	13.62	88.09	6.9	33.54	8.0	25.1	1.69
I15	13 Feb 2020	30	13.57	87.17	6.8	33.53	8.0	25.1	1.81
I15	13 Feb 2020	31	13.57	85.35	6.8	33.53	8.0	25.1	1.82
I16	13 Feb 2020	1	14.89	87.40	8.0	33.50	8.1	24.8	0.77
I16	13 Feb 2020	2	14.85	87.16	8.0	33.50	8.1	24.9	0.72
I16	13 Feb 2020	3	14.81	86.99	8.0	33.50	8.1	24.9	0.73
I16	13 Feb 2020	4	14.80	86.80	8.0	33.50	8.1	24.9	0.77
I16	13 Feb 2020	5	14.76	86.67	8.0	33.49	8.1	24.9	0.83
I16	13 Feb 2020	6	14.77	86.65	7.9	33.49	8.1	24.9	0.90
I16	13 Feb 2020	7	14.78	86.58	7.9	33.50	8.1	24.9	0.95
I16	13 Feb 2020	8	14.73	86.63	7.9	33.49	8.1	24.9	1.07
I16	13 Feb 2020	9	14.77	86.60	7.9	33.49	8.1	24.9	1.18
I16	13 Feb 2020	10	14.79	86.59	7.9	33.50	8.1	24.9	1.36
I16	13 Feb 2020	11	14.78	86.76	7.9	33.51	8.1	24.9	1.43
I16	13 Feb 2020	12	14.76	86.84	7.8	33.51	8.1	24.9	1.53
I16	13 Feb 2020	13	14.73	86.90	7.8	33.51	8.1	24.9	1.64
I16	13 Feb 2020	14	14.68	87.14	7.8	33.52	8.1	24.9	1.76
I16	13 Feb 2020	15	14.62	87.39	7.7	33.52	8.1	24.9	1.80
I16	13 Feb 2020	16	14.58	87.68	7.7	33.52	8.1	24.9	1.84
I16	13 Feb 2020	17	14.51	88.00	7.6	33.52	8.1	24.9	1.81
I16	13 Feb 2020	18	14.43	88.43	7.6	33.52	8.0	25.0	1.68
I16	13 Feb 2020	19	14.41	88.48	7.5	33.52	8.0	25.0	1.57
I16	13 Feb 2020	20	14.34	88.56	7.5	33.52	8.0	25.0	1.59
I16	13 Feb 2020	21	14.16	88.65	7.4	33.54	8.0	25.0	1.55
I16	13 Feb 2020	22	14.01	88.73	7.3	33.53	8.0	25.1	1.52
I16	13 Feb 2020	23	13.97	88.78	7.2	33.52	8.0	25.1	1.49
I16	13 Feb 2020	24	13.95	88.55	7.2	33.52	8.0	25.1	1.52
I16	13 Feb 2020	25	13.89	88.43	7.1	33.53	8.0	25.1	1.58
I16	13 Feb 2020	26	13.71	88.15	7.0	33.53	8.0	25.1	1.67
I16	13 Feb 2020	27	13.68	88.00	7.0	33.53	8.0	25.1	1.78
I16	13 Feb 2020	28	13.65	87.55	6.9	33.52	8.0	25.1	1.84
I17	13 Feb 2020	1	14.80	86.23	8.0	33.48	8.1	24.8	0.88
I17	13 Feb 2020	2	14.65	86.06	7.8	33.50	8.1	24.9	0.88
I17	13 Feb 2020	3	14.28	85.91	7.6	33.41	8.0	24.9	0.92
I17	13 Feb 2020	4	14.42	86.25	7.6	33.43	8.0	24.9	0.87
I17	13 Feb 2020	5	14.51	86.43	7.6	33.47	8.0	24.9	0.88
I17	13 Feb 2020	6	14.37	86.70	7.6	33.50	8.0	25.0	0.96
I17	13 Feb 2020	7	14.23	87.09	7.5	33.49	8.0	25.0	1.00
I17	13 Feb 2020	8	14.22	87.43	7.4	33.49	8.0	25.0	0.98
I17	13 Feb 2020	9	14.23	87.74	7.4	33.49	8.0	25.0	1.09
I17	13 Feb 2020	10	14.19	87.91	7.4	33.50	8.0	25.0	1.04
I17	13 Feb 2020	11	14.10	87.90	7.3	33.49	8.0	25.0	1.12
I17	13 Feb 2020	12	14.12	87.93	7.3	33.50	8.0	25.0	1.24
I17	13 Feb 2020	13	14.12	88.11	7.3	33.50	8.0	25.0	1.26
I17	13 Feb 2020	14	14.14	88.15	7.3	33.50	8.0	25.0	1.48
I17	13 Feb 2020	15	14.14	88.25	7.3	33.51	8.0	25.0	1.56
I17	13 Feb 2020	16	14.11	88.32	7.3	33.52	8.0	25.0	1.65
I17	13 Feb 2020	17	14.06	88.39	7.3	33.52	8.0	25.0	1.56
I17	13 Feb 2020	18	14.01	88.35	7.2	33.52	8.0	25.0	1.57

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I17	13 Feb 2020	19	13.95	88.20	7.2	33.52	8.0	25.1	1.71
I17	13 Feb 2020	20	13.74	88.09	7.0	33.54	8.0	25.1	1.79
I17	13 Feb 2020	21	13.68	87.10	6.9	33.53	8.0	25.1	1.86
I17	13 Feb 2020	22	13.67	85.85	6.9	33.52	8.0	25.1	1.95
I17	13 Feb 2020	23	13.66	85.52	6.9	33.52	8.0	25.1	2.14
I17	13 Feb 2020	24	13.66	85.17	6.9	33.52	8.0	25.1	2.14
I17	13 Feb 2020	25	13.66	84.85	6.9	33.52	8.0	25.1	2.08
I18	13 Feb 2020	1	14.92	82.11	8.2	33.43	8.1	24.8	1.24
I18	13 Feb 2020	2	14.89	82.14	8.2	33.43	8.1	24.8	1.14
I18	13 Feb 2020	3	14.86	82.08	8.3	33.44	8.1	24.8	1.15
I18	13 Feb 2020	4	14.84	82.01	8.2	33.43	8.1	24.8	1.23
I18	13 Feb 2020	5	14.83	81.76	8.2	33.44	8.1	24.8	1.32
I18	13 Feb 2020	6	14.82	81.75	8.2	33.44	8.1	24.8	1.52
I18	13 Feb 2020	7	14.82	81.98	8.2	33.44	8.1	24.8	1.72
I18	13 Feb 2020	8	14.79	82.57	8.1	33.46	8.1	24.8	2.02
I18	13 Feb 2020	9	14.68	83.35	8.0	33.48	8.1	24.9	2.13
I18	13 Feb 2020	10	14.59	83.64	7.8	33.49	8.1	24.9	2.41
I18	13 Feb 2020	11	14.53	84.23	7.8	33.49	8.1	24.9	2.50
I18	13 Feb 2020	12	14.48	84.55	7.7	33.49	8.1	24.9	2.31
I18	13 Feb 2020	13	14.38	84.39	7.6	33.51	8.0	25.0	2.46
I18	13 Feb 2020	14	14.27	84.00	7.5	33.52	8.0	25.0	2.50
I18	13 Feb 2020	15	13.99	84.13	7.2	33.55	8.0	25.1	2.78
I18	13 Feb 2020	16	13.85	84.29	7.0	33.52	8.0	25.1	2.77
I18	13 Feb 2020	17	13.83	82.17	7.0	33.54	8.0	25.1	2.53
I18	13 Feb 2020	18	13.78	80.76	6.9	33.52	8.0	25.1	2.58
I18	13 Feb 2020	19	13.78	79.83	6.8	33.52	8.0	25.1	2.55
I2	12 Feb 2020	1	15.19	88.38	8.0	33.48	8.1	24.8	0.45
I2	12 Feb 2020	2	15.17	88.43	8.0	33.48	8.1	24.8	0.44
I2	12 Feb 2020	3	15.14	88.57	8.0	33.49	8.1	24.8	0.48
I2	12 Feb 2020	4	15.10	88.36	8.0	33.48	8.1	24.8	0.48
I2	12 Feb 2020	5	15.09	88.34	8.0	33.48	8.1	24.8	0.50
I2	12 Feb 2020	6	15.09	88.25	8.0	33.48	8.1	24.8	0.55
I2	12 Feb 2020	7	15.08	88.27	8.0	33.48	8.1	24.8	0.60
I2	12 Feb 2020	8	15.08	88.21	8.0	33.48	8.1	24.8	0.67
I2	12 Feb 2020	9	15.07	88.26	8.0	33.48	8.1	24.8	0.72
I2	12 Feb 2020	10	15.07	88.25	7.9	33.48	8.1	24.8	0.77
I2	12 Feb 2020	11	15.07	88.32	8.0	33.49	8.1	24.8	0.83
I2	12 Feb 2020	12	15.07	88.36	8.0	33.49	8.1	24.8	0.88
I2	12 Feb 2020	13	15.07	88.46	7.9	33.49	8.1	24.8	0.89
I2	12 Feb 2020	14	15.05	88.45	7.9	33.49	8.1	24.8	0.93
I2	12 Feb 2020	15	15.03	88.43	7.9	33.49	8.1	24.8	1.06
I2	12 Feb 2020	16	15.02	88.40	8.0	33.49	8.1	24.8	1.20
I2	12 Feb 2020	17	14.94	88.29	7.9	33.50	8.1	24.8	1.20
I2	12 Feb 2020	18	14.85	88.28	7.8	33.51	8.1	24.9	1.19
I2	12 Feb 2020	19	14.70	88.21	7.7	33.52	8.1	24.9	1.30
I2	12 Feb 2020	20	14.54	88.16	7.6	33.53	8.1	24.9	1.43
I2	12 Feb 2020	21	14.43	88.23	7.5	33.52	8.1	25.0	1.42
I2	12 Feb 2020	22	14.39	88.25	7.5	33.52	8.1	25.0	1.52
I2	12 Feb 2020	23	14.36	88.13	7.4	33.51	8.1	25.0	1.51
I2	12 Feb 2020	24	14.36	88.12	7.5	33.51	8.1	25.0	1.66
I2	12 Feb 2020	25	14.26	88.15	7.4	33.54	8.1	25.0	1.58
I2	12 Feb 2020	26	14.10	88.39	7.3	33.53	8.0	25.0	1.70
I2	12 Feb 2020	27	14.07	88.76	7.2	33.52	8.0	25.0	1.67

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I2	12 Feb 2020	28	14.06	88.92	7.2	33.52	8.0	25.0	1.65
I2	12 Feb 2020	29	14.05	89.16	7.2	33.52	8.0	25.0	1.60
I2	12 Feb 2020	30	14.05	89.21	7.2	33.52	8.0	25.0	1.55
I2	12 Feb 2020	31	14.05	89.29	7.2	33.52	8.0	25.0	1.55
I2	12 Feb 2020	32	14.05	89.31	7.2	33.52	8.0	25.0	1.59
I20	13 Feb 2020	1	15.25	90.69	7.8	33.47	8.1	24.7	0.50
I20	13 Feb 2020	2	15.25	90.73	7.8	33.47	8.1	24.7	0.49
I20	13 Feb 2020	3	15.25	90.76	7.8	33.47	8.1	24.7	0.49
I20	13 Feb 2020	4	15.25	90.69	7.8	33.47	8.1	24.7	0.50
I20	13 Feb 2020	5	15.25	90.72	7.9	33.47	8.1	24.7	0.52
I20	13 Feb 2020	6	15.25	90.76	7.8	33.47	8.1	24.7	0.53
I20	13 Feb 2020	7	15.24	90.76	7.8	33.47	8.1	24.7	0.52
I20	13 Feb 2020	8	15.24	90.71	7.8	33.47	8.1	24.7	0.55
I20	13 Feb 2020	9	15.24	90.75	7.8	33.47	8.1	24.7	0.57
I20	13 Feb 2020	10	15.24	90.68	7.8	33.47	8.1	24.7	0.59
I20	13 Feb 2020	11	15.24	90.54	7.8	33.47	8.1	24.7	0.59
I20	13 Feb 2020	12	15.24	90.77	7.8	33.47	8.1	24.7	0.66
I20	13 Feb 2020	13	15.24	90.79	7.8	33.47	8.1	24.7	0.64
I20	13 Feb 2020	14	15.24	90.73	7.8	33.47	8.1	24.7	0.65
I20	13 Feb 2020	15	15.24	90.79	7.8	33.47	8.1	24.7	0.67
I20	13 Feb 2020	16	15.24	90.81	7.8	33.47	8.1	24.7	0.66
I20	13 Feb 2020	17	15.24	90.77	7.8	33.47	8.1	24.7	0.68
I20	13 Feb 2020	18	15.24	90.76	7.8	33.47	8.1	24.7	0.70
I20	13 Feb 2020	19	15.24	90.86	7.8	33.47	8.1	24.7	0.72
I20	13 Feb 2020	20	15.24	90.87	7.8	33.47	8.1	24.7	0.70
I20	13 Feb 2020	21	15.23	90.86	7.8	33.47	8.1	24.7	0.77
I20	13 Feb 2020	22	15.23	90.86	7.8	33.47	8.1	24.7	0.74
I20	13 Feb 2020	23	15.23	90.84	7.8	33.47	8.1	24.7	0.75
I20	13 Feb 2020	24	15.23	90.81	7.8	33.47	8.1	24.7	0.74
I20	13 Feb 2020	25	15.22	90.83	7.8	33.47	8.1	24.7	0.76
I20	13 Feb 2020	26	15.22	90.85	7.8	33.47	8.1	24.7	0.74
I20	13 Feb 2020	27	15.22	90.86	7.8	33.47	8.1	24.7	0.77
I20	13 Feb 2020	28	15.22	90.84	7.8	33.47	8.1	24.7	0.78
I20	13 Feb 2020	29	15.21	90.81	7.8	33.47	8.1	24.7	0.77
I20	13 Feb 2020	30	15.20	90.84	7.8	33.47	8.1	24.8	0.75
I20	13 Feb 2020	31	15.19	90.81	7.8	33.47	8.1	24.8	0.82
I20	13 Feb 2020	32	15.19	90.75	7.8	33.47	8.1	24.8	0.82
I20	13 Feb 2020	33	15.19	90.78	7.8	33.47	8.1	24.8	0.81
I20	13 Feb 2020	34	15.17	90.73	7.8	33.48	8.1	24.8	0.82
I20	13 Feb 2020	35	15.14	90.69	7.8	33.48	8.1	24.8	0.87
I20	13 Feb 2020	36	15.11	90.65	7.8	33.48	8.1	24.8	0.92
I20	13 Feb 2020	37	15.09	90.62	7.8	33.48	8.1	24.8	1.01
I20	13 Feb 2020	38	15.07	90.52	7.8	33.49	8.1	24.8	1.06
I20	13 Feb 2020	39	15.02	90.40	7.8	33.49	8.1	24.8	1.09
I20	13 Feb 2020	40	14.97	90.35	7.7	33.50	8.1	24.8	1.12
I20	13 Feb 2020	41	14.94	90.24	7.7	33.50	8.1	24.8	1.11
I20	13 Feb 2020	42	14.72	90.23	7.6	33.52	8.0	24.9	1.16
I20	13 Feb 2020	43	14.50	90.29	7.5	33.53	8.0	24.9	1.21
I20	13 Feb 2020	44	14.33	90.28	7.4	33.53	8.0	25.0	1.23
I20	13 Feb 2020	45	14.00	90.28	7.2	33.55	8.0	25.1	1.24
I20	13 Feb 2020	46	13.83	90.29	7.1	33.53	8.0	25.1	1.29
I20	13 Feb 2020	47	13.80	90.12	7.1	33.52	8.0	25.1	1.32
I20	13 Feb 2020	48	13.79	89.98	7.0	33.52	8.0	25.1	1.45
I20	13 Feb 2020	49	13.78	89.93	7.0	33.52	8.0	25.1	1.44

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I20	13 Feb 2020	50	13.77	89.89	7.0	33.52	8.0	25.1	1.34
I20	13 Feb 2020	51	13.76	89.92	7.0	33.52	8.0	25.1	1.35
I20	13 Feb 2020	52	13.74	89.86	7.0	33.52	8.0	25.1	1.45
I20	13 Feb 2020	53	13.72	89.97	6.9	33.52	8.0	25.1	1.37
I20	13 Feb 2020	54	13.64	89.92	6.9	33.53	8.0	25.1	1.36
I20	13 Feb 2020	55	13.64	90.01	6.8	33.53	8.0	25.1	1.25
I21	13 Feb 2020	1	15.02	89.56	7.8	33.49	8.1	24.8	0.53
I21	13 Feb 2020	2	15.02	89.55	7.8	33.49	8.1	24.8	0.55
I21	13 Feb 2020	3	15.02	89.61	7.8	33.49	8.1	24.8	0.57
I21	13 Feb 2020	4	15.02	89.57	7.8	33.49	8.1	24.8	0.57
I21	13 Feb 2020	5	15.01	89.63	7.8	33.49	8.1	24.8	0.61
I21	13 Feb 2020	6	15.01	89.68	7.8	33.49	8.1	24.8	0.63
I21	13 Feb 2020	7	15.01	89.78	7.8	33.48	8.1	24.8	0.67
I21	13 Feb 2020	8	15.00	89.78	7.8	33.49	8.1	24.8	0.62
I21	13 Feb 2020	9	15.00	89.62	7.8	33.49	8.1	24.8	0.64
I21	13 Feb 2020	10	15.00	89.66	7.8	33.49	8.1	24.8	0.68
I21	13 Feb 2020	11	15.00	89.68	7.8	33.49	8.1	24.8	0.71
I21	13 Feb 2020	12	14.99	89.44	7.7	33.49	8.1	24.8	0.70
I21	13 Feb 2020	13	14.99	89.55	7.7	33.49	8.1	24.8	0.76
I21	13 Feb 2020	14	14.97	89.50	7.8	33.49	8.1	24.8	0.78
I21	13 Feb 2020	15	14.97	89.60	7.7	33.49	8.1	24.8	0.78
I21	13 Feb 2020	16	14.97	89.72	7.7	33.49	8.1	24.8	0.84
I21	13 Feb 2020	17	14.97	89.74	7.8	33.49	8.1	24.8	0.85
I21	13 Feb 2020	18	14.97	89.78	7.8	33.49	8.1	24.8	0.91
I21	13 Feb 2020	19	14.96	89.86	7.8	33.49	8.1	24.8	1.01
I21	13 Feb 2020	20	14.96	89.83	7.8	33.49	8.1	24.8	0.94
I21	13 Feb 2020	21	14.96	89.85	7.7	33.49	8.1	24.8	0.95
I21	13 Feb 2020	22	14.96	89.86	7.7	33.49	8.1	24.8	0.93
I21	13 Feb 2020	23	14.95	89.90	7.8	33.49	8.1	24.8	0.98
I21	13 Feb 2020	24	14.95	89.97	7.8	33.49	8.1	24.8	0.99
I21	13 Feb 2020	25	14.95	89.95	7.7	33.49	8.1	24.8	1.01
I21	13 Feb 2020	26	14.94	89.84	7.7	33.49	8.1	24.8	1.00
I21	13 Feb 2020	27	14.94	89.98	7.7	33.49	8.1	24.8	1.04
I21	13 Feb 2020	28	14.93	89.94	7.7	33.49	8.1	24.8	1.08
I21	13 Feb 2020	29	14.93	89.93	7.7	33.49	8.1	24.8	1.00
I21	13 Feb 2020	30	14.89	90.00	7.7	33.50	8.1	24.8	1.12
I21	13 Feb 2020	31	14.83	89.89	7.6	33.51	8.1	24.9	1.07
I21	13 Feb 2020	32	14.75	89.82	7.6	33.52	8.1	24.9	1.06
I21	13 Feb 2020	33	14.64	89.73	7.5	33.54	8.1	24.9	1.12
I21	13 Feb 2020	34	14.44	89.71	7.4	33.55	8.0	25.0	1.21
I21	13 Feb 2020	35	14.12	89.78	7.2	33.58	8.0	25.1	1.17
I21	13 Feb 2020	36	13.72	89.86	7.1	33.59	8.0	25.2	1.20
I21	13 Feb 2020	37	13.47	89.86	6.9	33.56	8.0	25.2	1.22
I21	13 Feb 2020	38	13.37	89.45	6.8	33.55	8.0	25.2	1.26
I21	13 Feb 2020	39	13.35	89.01	6.8	33.54	8.0	25.2	1.30
I21	13 Feb 2020	40	13.36	88.96	6.8	33.54	8.0	25.2	1.24
I21	13 Feb 2020	41	13.35	88.96	6.8	33.54	8.0	25.2	1.20
I22	13 Feb 2020	1	14.77	85.26	8.0	33.48	8.1	24.8	1.07
I22	13 Feb 2020	2	14.76	85.17	8.0	33.48	8.1	24.9	1.04
I22	13 Feb 2020	3	14.72	85.10	8.0	33.48	8.1	24.9	0.99
I22	13 Feb 2020	4	14.71	84.92	8.0	33.48	8.1	24.9	1.03
I22	13 Feb 2020	5	14.70	84.89	8.0	33.48	8.1	24.9	1.03
I22	13 Feb 2020	6	14.70	84.95	8.0	33.48	8.1	24.9	1.18

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I22	13 Feb 2020	7	14.70	85.27	8.0	33.48	8.1	24.9	1.47
I22	13 Feb 2020	8	14.69	85.31	8.0	33.48	8.1	24.9	1.60
I22	13 Feb 2020	9	14.69	85.66	7.9	33.49	8.1	24.9	1.76
I22	13 Feb 2020	10	14.69	85.86	7.9	33.49	8.1	24.9	1.79
I22	13 Feb 2020	11	14.68	85.94	7.9	33.49	8.1	24.9	1.93
I22	13 Feb 2020	12	14.68	86.22	7.8	33.50	8.1	24.9	1.99
I22	13 Feb 2020	13	14.68	86.71	7.8	33.50	8.1	24.9	1.93
I22	13 Feb 2020	14	14.66	87.08	7.8	33.51	8.1	24.9	1.81
I22	13 Feb 2020	15	14.62	87.58	7.7	33.52	8.1	24.9	1.71
I22	13 Feb 2020	16	14.52	88.03	7.6	33.52	8.1	24.9	1.74
I22	13 Feb 2020	17	14.42	88.48	7.5	33.53	8.0	25.0	1.59
I22	13 Feb 2020	18	14.27	88.84	7.4	33.53	8.0	25.0	1.44
I22	13 Feb 2020	19	14.17	88.86	7.3	33.53	8.0	25.0	1.44
I22	13 Feb 2020	20	14.07	89.02	7.3	33.53	8.0	25.0	1.32
I22	13 Feb 2020	21	13.84	89.17	7.2	33.55	8.0	25.1	1.35
I22	13 Feb 2020	22	13.71	89.36	7.1	33.53	8.0	25.1	1.35
I22	13 Feb 2020	23	13.64	89.20	7.0	33.53	8.0	25.1	1.43
I22	13 Feb 2020	24	13.63	88.97	7.0	33.53	8.0	25.1	1.51
I22	13 Feb 2020	25	13.61	88.82	7.0	33.53	8.0	25.1	1.54
I22	13 Feb 2020	26	13.60	88.85	6.9	33.53	8.0	25.1	1.48
I22	13 Feb 2020	27	13.59	87.74	6.9	33.53	8.0	25.1	1.52
I22	13 Feb 2020	28	13.57	86.48	6.8	33.53	8.0	25.1	1.51
I23	13 Feb 2020	1	14.85	80.90	8.2	33.40	8.1	24.8	1.29
I23	13 Feb 2020	2	14.83	80.83	8.3	33.41	8.1	24.8	1.25
I23	13 Feb 2020	3	14.79	80.57	8.2	33.41	8.1	24.8	1.25
I23	13 Feb 2020	4	14.76	80.38	8.2	33.42	8.1	24.8	1.29
I23	13 Feb 2020	5	14.68	80.54	8.0	33.46	8.1	24.9	1.50
I23	13 Feb 2020	6	14.50	81.92	7.6	33.51	8.0	24.9	1.66
I23	13 Feb 2020	7	14.39	81.27	7.3	33.53	8.0	25.0	1.72
I23	13 Feb 2020	8	14.28	77.24	7.1	33.53	8.0	25.0	1.89
I23	13 Feb 2020	9	14.16	74.19	6.9	33.54	8.0	25.0	2.05
I23	13 Feb 2020	10	14.01	75.11	6.8	33.53	8.0	25.1	2.25
I23	13 Feb 2020	11	13.97	75.37	6.8	33.53	8.0	25.1	2.07
I23	13 Feb 2020	12	13.91	74.75	6.8	33.53	8.0	25.1	2.00
I23	13 Feb 2020	13	13.88	74.94	6.8	33.52	8.0	25.1	2.10
I23	13 Feb 2020	14	13.86	75.82	6.8	33.52	8.0	25.1	2.19
I23	13 Feb 2020	15	13.83	77.18	6.8	33.53	8.0	25.1	2.14
I23	13 Feb 2020	16	13.78	77.78	6.8	33.53	8.0	25.1	2.08
I23	13 Feb 2020	17	13.75	78.71	6.8	33.53	8.0	25.1	2.09
I23	13 Feb 2020	18	13.73	79.75	6.8	33.53	8.0	25.1	2.04
I23	13 Feb 2020	19	13.71	79.56	6.8	33.53	8.0	25.1	2.02
I23	13 Feb 2020	20	13.70	79.42	6.8	33.52	8.0	25.1	1.96
I23	13 Feb 2020	21	13.71	78.48	6.7	33.52	8.0	25.1	2.02
I27	13 Feb 2020	1	14.71	84.70	8.0	33.47	8.1	24.9	1.06
I27	13 Feb 2020	2	14.69	84.64	8.0	33.47	8.1	24.9	1.06
I27	13 Feb 2020	3	14.68	84.64	8.0	33.47	8.1	24.9	1.09
I27	13 Feb 2020	4	14.67	84.75	8.0	33.48	8.1	24.9	1.22
I27	13 Feb 2020	5	14.66	85.10	8.0	33.48	8.1	24.9	1.40
I27	13 Feb 2020	6	14.66	85.19	8.0	33.49	8.1	24.9	1.53
I27	13 Feb 2020	7	14.66	85.28	8.0	33.49	8.1	24.9	1.66
I27	13 Feb 2020	8	14.66	85.54	7.9	33.50	8.1	24.9	1.76
I27	13 Feb 2020	9	14.65	85.86	7.9	33.50	8.1	24.9	1.89
I27	13 Feb 2020	10	14.65	86.10	7.9	33.50	8.1	24.9	1.99

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I27	13 Feb 2020	11	14.64	86.31	7.8	33.51	8.1	24.9	2.07
I27	13 Feb 2020	12	14.63	86.58	7.8	33.51	8.1	24.9	2.07
I27	13 Feb 2020	13	14.62	86.73	7.8	33.51	8.1	24.9	2.17
I27	13 Feb 2020	14	14.60	86.97	7.7	33.51	8.1	24.9	2.03
I27	13 Feb 2020	15	14.59	87.31	7.7	33.51	8.1	24.9	1.98
I27	13 Feb 2020	16	14.58	87.57	7.7	33.51	8.1	24.9	1.91
I27	13 Feb 2020	17	14.56	87.85	7.7	33.51	8.1	24.9	1.89
I27	13 Feb 2020	18	14.54	87.92	7.6	33.52	8.1	24.9	1.87
I27	13 Feb 2020	19	14.50	88.12	7.6	33.52	8.1	24.9	1.82
I27	13 Feb 2020	20	14.45	88.34	7.5	33.52	8.0	25.0	1.67
I27	13 Feb 2020	21	14.40	88.58	7.5	33.52	8.0	25.0	1.69
I27	13 Feb 2020	22	14.30	88.73	7.4	33.53	8.0	25.0	1.57
I27	13 Feb 2020	23	14.18	88.94	7.3	33.54	8.0	25.0	1.43
I27	13 Feb 2020	24	14.08	88.95	7.3	33.53	8.0	25.0	1.32
I27	13 Feb 2020	25	13.97	89.01	7.2	33.54	8.0	25.1	1.44
I27	13 Feb 2020	26	13.62	88.94	7.0	33.56	8.0	25.2	1.35
I27	13 Feb 2020	27	13.49	88.83	6.9	33.54	8.0	25.2	1.41
I27	13 Feb 2020	28	13.43	88.07	6.8	33.54	8.0	25.2	1.39
I28	14 Feb 2020	1	15.06	88.75	8.0	33.51	8.1	24.8	0.64
I28	14 Feb 2020	2	15.06	88.80	8.0	33.51	8.1	24.8	0.65
I28	14 Feb 2020	3	15.06	88.77	8.0	33.51	8.1	24.8	0.65
I28	14 Feb 2020	4	15.05	88.55	8.0	33.51	8.1	24.8	0.64
I28	14 Feb 2020	5	15.05	88.72	8.0	33.51	8.1	24.8	0.65
I28	14 Feb 2020	6	15.05	88.72	8.0	33.51	8.1	24.8	0.66
I28	14 Feb 2020	7	15.05	88.64	8.0	33.51	8.1	24.8	0.72
I28	14 Feb 2020	8	15.05	88.66	8.0	33.51	8.1	24.8	0.75
I28	14 Feb 2020	9	15.05	88.57	8.0	33.51	8.1	24.8	0.79
I28	14 Feb 2020	10	15.04	88.66	8.0	33.51	8.1	24.8	0.80
I28	14 Feb 2020	11	15.04	88.71	8.0	33.51	8.1	24.8	0.85
I28	14 Feb 2020	12	15.03	88.72	8.0	33.51	8.1	24.8	0.95
I28	14 Feb 2020	13	15.03	88.65	8.0	33.51	8.1	24.8	0.96
I28	14 Feb 2020	14	15.02	88.69	8.0	33.51	8.1	24.8	1.01
I28	14 Feb 2020	15	15.01	88.79	8.0	33.51	8.1	24.8	1.11
I28	14 Feb 2020	16	15.01	88.85	7.9	33.51	8.1	24.8	1.17
I28	14 Feb 2020	17	14.98	88.58	8.0	33.51	8.1	24.8	1.25
I28	14 Feb 2020	18	14.88	88.90	7.9	33.53	8.1	24.9	1.28
I28	14 Feb 2020	19	14.77	89.04	7.8	33.52	8.1	24.9	1.37
I28	14 Feb 2020	20	14.74	89.41	7.8	33.52	8.1	24.9	1.40
I28	14 Feb 2020	21	14.67	89.54	7.7	33.53	8.1	24.9	1.39
I28	14 Feb 2020	22	14.60	89.72	7.7	33.52	8.1	24.9	1.37
I28	14 Feb 2020	23	14.59	89.69	7.6	33.52	8.1	24.9	1.40
I28	14 Feb 2020	24	14.55	89.81	7.6	33.52	8.1	24.9	1.51
I28	14 Feb 2020	25	14.51	89.84	7.6	33.52	8.1	24.9	1.48
I28	14 Feb 2020	26	14.41	90.09	7.5	33.52	8.1	25.0	1.47
I28	14 Feb 2020	27	14.36	90.09	7.5	33.51	8.1	25.0	1.40
I28	14 Feb 2020	28	14.29	90.15	7.4	33.51	8.1	25.0	1.39
I28	14 Feb 2020	29	14.17	90.24	7.3	33.51	8.1	25.0	1.36
I28	14 Feb 2020	30	14.08	90.39	7.3	33.49	8.0	25.0	1.39
I28	14 Feb 2020	31	14.02	90.48	7.2	33.50	8.0	25.0	1.31
I28	14 Feb 2020	32	13.97	90.49	7.2	33.51	8.0	25.0	1.24
I28	14 Feb 2020	33	13.94	90.58	7.2	33.51	8.0	25.1	1.23
I28	14 Feb 2020	34	13.91	90.48	7.1	33.52	8.0	25.1	1.24
I28	14 Feb 2020	35	13.86	90.31	7.1	33.53	8.0	25.1	1.28
I28	14 Feb 2020	36	13.85	90.13	7.0	33.52	8.0	25.1	1.34

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I28	14 Feb 2020	37	13.74	90.09	7.0	33.54	8.0	25.1	1.23
I28	14 Feb 2020	38	13.68	90.10	6.9	33.53	8.0	25.1	1.35
I28	14 Feb 2020	39	13.66	90.07	6.9	33.53	8.0	25.1	1.30
I28	14 Feb 2020	40	13.60	90.09	6.9	33.54	8.0	25.1	1.25
I28	14 Feb 2020	41	13.55	90.00	6.8	33.54	8.0	25.1	1.36
I28	14 Feb 2020	42	13.52	90.05	6.8	33.54	8.0	25.2	1.28
I28	14 Feb 2020	43	13.39	90.11	6.7	33.56	8.0	25.2	1.24
I28	14 Feb 2020	44	13.30	90.05	6.6	33.56	8.0	25.2	1.23
I28	14 Feb 2020	45	13.30	90.01	6.6	33.55	8.0	25.2	1.30
I28	14 Feb 2020	46	13.28	89.96	6.6	33.55	8.0	25.2	1.15
I28	14 Feb 2020	47	13.21	89.77	6.6	33.56	8.0	25.2	1.07
I28	14 Feb 2020	48	13.14	89.54	6.5	33.57	8.0	25.3	1.12
I28	14 Feb 2020	49	13.02	89.32	6.4	33.58	8.0	25.3	1.01
I28	14 Feb 2020	50	12.92	89.36	6.3	33.59	8.0	25.3	1.02
I28	14 Feb 2020	51	12.85	89.39	6.3	33.59	8.0	25.3	1.02
I28	14 Feb 2020	52	12.82	89.58	6.3	33.58	8.0	25.3	0.97
I28	14 Feb 2020	53	12.74	89.66	6.2	33.60	8.0	25.4	0.98
I28	14 Feb 2020	54	12.49	89.84	6.1	33.62	7.9	25.4	0.90
I28	14 Feb 2020	55	12.44	89.78	6.0	33.60	7.9	25.4	0.85
I29	14 Feb 2020	1	15.04	88.80	8.0	33.51	8.1	24.8	0.60
I29	14 Feb 2020	2	15.03	88.88	8.0	33.51	8.1	24.8	0.60
I29	14 Feb 2020	3	15.04	88.91	8.0	33.51	8.1	24.8	0.61
I29	14 Feb 2020	4	15.03	88.84	8.0	33.51	8.1	24.8	0.60
I29	14 Feb 2020	5	15.01	88.88	8.0	33.51	8.1	24.8	0.60
I29	14 Feb 2020	6	15.00	88.92	8.0	33.51	8.1	24.8	0.61
I29	14 Feb 2020	7	15.00	88.83	8.0	33.51	8.1	24.8	0.65
I29	14 Feb 2020	8	15.00	88.89	8.0	33.51	8.1	24.8	0.69
I29	14 Feb 2020	9	15.00	88.77	8.0	33.51	8.1	24.8	0.74
I29	14 Feb 2020	10	15.00	88.77	8.0	33.51	8.1	24.8	0.78
I29	14 Feb 2020	11	15.00	88.84	8.0	33.51	8.1	24.8	0.85
I29	14 Feb 2020	12	15.00	88.93	8.0	33.51	8.1	24.8	0.89
I29	14 Feb 2020	13	15.00	88.85	8.0	33.51	8.1	24.8	0.96
I29	14 Feb 2020	14	14.99	88.82	8.0	33.51	8.1	24.8	1.02
I29	14 Feb 2020	15	14.95	88.95	7.9	33.52	8.1	24.8	1.03
I29	14 Feb 2020	16	14.92	88.94	7.9	33.51	8.1	24.8	1.10
I29	14 Feb 2020	17	14.91	89.06	7.9	33.51	8.1	24.8	1.15
I29	14 Feb 2020	18	14.88	89.08	7.8	33.51	8.1	24.9	1.21
I29	14 Feb 2020	19	14.88	89.20	7.8	33.51	8.1	24.9	1.29
I29	14 Feb 2020	20	14.85	89.23	7.8	33.51	8.1	24.9	1.29
I29	14 Feb 2020	21	14.84	89.45	7.8	33.51	8.1	24.9	1.31
I29	14 Feb 2020	22	14.84	89.50	7.8	33.51	8.1	24.9	1.28
I29	14 Feb 2020	23	14.83	89.59	7.8	33.51	8.1	24.9	1.28
I29	14 Feb 2020	24	14.83	89.72	7.8	33.51	8.1	24.9	1.25
I29	14 Feb 2020	25	14.83	89.75	7.8	33.51	8.1	24.9	1.26
I29	14 Feb 2020	26	14.80	89.74	7.7	33.51	8.1	24.9	1.23
I29	14 Feb 2020	27	14.79	89.82	7.7	33.51	8.1	24.9	1.23
I29	14 Feb 2020	28	14.75	89.83	7.7	33.52	8.1	24.9	1.22
I29	14 Feb 2020	29	14.60	90.04	7.5	33.54	8.1	24.9	1.17
I29	14 Feb 2020	30	14.38	90.32	7.5	33.54	8.1	25.0	1.12
I29	14 Feb 2020	31	14.28	90.41	7.3	33.54	8.1	25.0	1.11
I29	14 Feb 2020	32	13.96	90.40	7.1	33.57	8.0	25.1	1.09
I29	14 Feb 2020	33	13.66	90.30	7.0	33.57	8.0	25.2	1.10
I29	14 Feb 2020	34	13.51	90.06	6.8	33.56	8.0	25.2	1.13
I29	14 Feb 2020	35	13.51	89.10	6.7	33.55	8.0	25.2	1.19

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I29	14 Feb 2020	36	13.50	88.35	6.7	33.55	8.0	25.2	1.07
I29	14 Feb 2020	37	13.57	87.96	6.7	33.54	8.0	25.1	1.13
I3	12 Feb 2020	1	14.96	82.62	8.1	33.43	8.1	24.8	0.76
I3	12 Feb 2020	2	14.92	82.86	8.1	33.43	8.1	24.8	0.80
I3	12 Feb 2020	3	14.84	83.47	8.1	33.43	8.1	24.8	0.86
I3	12 Feb 2020	4	14.77	83.35	8.1	33.42	8.1	24.8	1.00
I3	12 Feb 2020	5	14.75	83.19	8.1	33.41	8.1	24.8	1.20
I3	12 Feb 2020	6	14.75	83.07	8.1	33.41	8.1	24.8	1.31
I3	12 Feb 2020	7	14.75	83.07	8.1	33.42	8.1	24.8	1.50
I3	12 Feb 2020	8	14.75	83.35	8.1	33.42	8.1	24.8	1.73
I3	12 Feb 2020	9	14.72	83.92	8.0	33.44	8.1	24.8	1.86
I3	12 Feb 2020	10	14.58	84.49	7.8	33.51	8.1	24.9	1.94
I3	12 Feb 2020	11	14.50	85.74	7.7	33.52	8.1	24.9	2.17
I3	12 Feb 2020	12	14.43	86.52	7.7	33.52	8.1	25.0	2.16
I3	12 Feb 2020	13	14.37	86.48	7.6	33.53	8.1	25.0	2.06
I3	12 Feb 2020	14	14.30	87.07	7.5	33.53	8.1	25.0	1.99
I3	12 Feb 2020	15	14.22	87.55	7.4	33.54	8.1	25.0	2.08
I3	12 Feb 2020	16	14.19	88.04	7.3	33.52	8.0	25.0	2.03
I3	12 Feb 2020	17	14.16	88.27	7.3	33.52	8.0	25.0	1.95
I3	12 Feb 2020	18	14.14	88.39	7.3	33.52	8.0	25.0	1.86
I3	12 Feb 2020	19	14.13	88.41	7.2	33.52	8.0	25.0	1.71
I3	12 Feb 2020	20	14.12	88.05	7.2	33.52	8.0	25.0	1.80
I3	12 Feb 2020	21	14.12	88.17	7.2	33.51	8.0	25.0	1.70
I3	12 Feb 2020	22	14.12	88.10	7.2	33.51	8.0	25.0	1.85
I3	12 Feb 2020	23	14.12	87.96	7.2	33.51	8.0	25.0	1.96
I3	12 Feb 2020	24	14.12	87.90	7.2	33.51	8.0	25.0	1.91
I3	12 Feb 2020	25	14.12	88.09	7.2	33.51	8.0	25.0	1.76
I3	12 Feb 2020	26	14.12	88.09	7.2	33.51	8.0	25.0	1.72
I3	12 Feb 2020	27	14.12	87.74	7.2	33.51	8.0	25.0	1.69
I30	14 Feb 2020	1	14.79	86.23	7.7	33.49	8.1	24.9	0.73
I30	14 Feb 2020	2	14.78	86.12	7.9	33.50	8.1	24.9	0.73
I30	14 Feb 2020	3	14.75	86.24	7.9	33.50	8.1	24.9	0.72
I30	14 Feb 2020	4	14.73	86.16	7.9	33.50	8.1	24.9	0.70
I30	14 Feb 2020	5	14.73	86.28	7.9	33.50	8.1	24.9	0.71
I30	14 Feb 2020	6	14.72	86.44	7.9	33.50	8.1	24.9	0.77
I30	14 Feb 2020	7	14.71	86.55	7.9	33.51	8.1	24.9	0.81
I30	14 Feb 2020	8	14.70	86.58	7.8	33.51	8.1	24.9	0.85
I30	14 Feb 2020	9	14.68	86.93	7.8	33.51	8.1	24.9	0.97
I30	14 Feb 2020	10	14.68	87.29	7.8	33.51	8.1	24.9	1.06
I30	14 Feb 2020	11	14.68	87.53	7.8	33.51	8.1	24.9	1.19
I30	14 Feb 2020	12	14.67	87.67	7.8	33.51	8.1	24.9	1.20
I30	14 Feb 2020	13	14.66	87.76	7.8	33.51	8.1	24.9	1.22
I30	14 Feb 2020	14	14.66	87.97	7.7	33.51	8.1	24.9	1.28
I30	14 Feb 2020	15	14.65	88.22	7.7	33.52	8.1	24.9	1.26
I30	14 Feb 2020	16	14.64	88.52	7.7	33.52	8.1	24.9	1.22
I30	14 Feb 2020	17	14.63	88.69	7.7	33.52	8.1	24.9	1.26
I30	14 Feb 2020	18	14.59	88.67	7.6	33.52	8.1	24.9	1.38
I30	14 Feb 2020	19	14.54	88.89	7.5	33.52	8.1	24.9	1.28
I30	14 Feb 2020	20	14.46	89.10	7.5	33.54	8.1	25.0	1.25
I30	14 Feb 2020	21	14.30	89.23	7.4	33.54	8.1	25.0	1.29
I30	14 Feb 2020	22	14.19	89.45	7.2	33.55	8.1	25.0	1.25
I30	14 Feb 2020	23	14.02	89.63	7.1	33.55	8.0	25.1	1.23
I30	14 Feb 2020	24	13.83	89.65	7.0	33.56	8.0	25.1	1.19

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I30	14 Feb 2020	25	13.64	89.63	6.9	33.56	8.0	25.1	1.12
I30	14 Feb 2020	26	13.58	89.19	6.8	33.55	8.0	25.2	1.14
I30	14 Feb 2020	27	13.56	88.20	6.7	33.55	8.0	25.2	1.21
I30	14 Feb 2020	28	13.65	87.16	6.7	33.53	8.0	25.1	1.16
I31	14 Feb 2020	1	14.83	82.57	8.3	33.49	8.1	24.8	1.17
I31	14 Feb 2020	2	14.79	82.40	8.3	33.49	8.1	24.9	1.18
I31	14 Feb 2020	3	14.76	82.14	8.3	33.49	8.1	24.9	1.19
I31	14 Feb 2020	4	14.75	81.77	8.3	33.49	8.1	24.9	1.27
I31	14 Feb 2020	5	14.74	81.74	8.3	33.49	8.1	24.9	1.53
I31	14 Feb 2020	6	14.73	81.65	8.3	33.49	8.1	24.9	1.65
I31	14 Feb 2020	7	14.73	81.81	8.3	33.49	8.1	24.9	1.83
I31	14 Feb 2020	8	14.71	81.73	8.3	33.49	8.1	24.9	2.12
I31	14 Feb 2020	9	14.62	82.11	8.1	33.51	8.1	24.9	2.39
I31	14 Feb 2020	10	14.43	82.50	7.9	33.53	8.1	25.0	2.53
I31	14 Feb 2020	11	14.25	83.16	7.6	33.54	8.1	25.0	2.71
I31	14 Feb 2020	12	14.16	84.07	7.5	33.53	8.1	25.0	2.57
I31	14 Feb 2020	13	14.12	84.97	7.4	33.53	8.1	25.0	2.40
I31	14 Feb 2020	14	14.02	85.75	7.2	33.54	8.0	25.1	2.29
I31	14 Feb 2020	15	13.87	86.23	7.0	33.55	8.0	25.1	2.20
I31	14 Feb 2020	16	13.71	87.11	6.9	33.55	8.0	25.1	1.81
I31	14 Feb 2020	17	13.70	86.57	6.8	33.54	8.0	25.1	1.66
I31	14 Feb 2020	18	13.69	85.06	6.8	33.54	8.0	25.1	1.52
I31	14 Feb 2020	19	13.69	83.70	6.8	33.54	8.0	25.1	1.47
I33	14 Feb 2020	1	14.82	87.77	7.9	33.51	8.1	24.9	0.70
I33	14 Feb 2020	2	14.80	87.45	7.9	33.51	8.1	24.9	0.68
I33	14 Feb 2020	3	14.80	87.76	7.9	33.51	8.1	24.9	0.70
I33	14 Feb 2020	4	14.79	87.88	7.9	33.51	8.1	24.9	0.70
I33	14 Feb 2020	5	14.78	87.87	7.9	33.51	8.1	24.9	0.75
I33	14 Feb 2020	6	14.75	87.92	7.8	33.52	8.1	24.9	0.82
I33	14 Feb 2020	7	14.62	88.25	7.7	33.52	8.1	24.9	0.87
I33	14 Feb 2020	8	14.60	88.73	7.6	33.52	8.1	24.9	0.94
I33	14 Feb 2020	9	14.60	88.74	7.6	33.52	8.1	24.9	0.98
I33	14 Feb 2020	10	14.58	88.79	7.6	33.51	8.1	24.9	1.03
I33	14 Feb 2020	11	14.57	88.72	7.6	33.51	8.1	24.9	1.09
I33	14 Feb 2020	12	14.54	88.62	7.6	33.52	8.1	24.9	1.06
I33	14 Feb 2020	13	14.50	88.70	7.5	33.52	8.1	24.9	1.03
I33	14 Feb 2020	14	14.47	88.90	7.4	33.52	8.1	24.9	1.09
I33	14 Feb 2020	15	14.46	89.03	7.4	33.52	8.1	24.9	1.06
I33	14 Feb 2020	16	14.45	89.17	7.4	33.52	8.1	24.9	1.06
I33	14 Feb 2020	17	14.45	89.38	7.4	33.52	8.1	24.9	1.08
I33	14 Feb 2020	18	14.45	89.47	7.4	33.52	8.1	24.9	1.17
I33	14 Feb 2020	19	14.42	89.60	7.4	33.52	8.1	25.0	1.23
I33	14 Feb 2020	20	14.39	89.72	7.4	33.52	8.1	25.0	1.22
I33	14 Feb 2020	21	14.36	89.92	7.4	33.52	8.1	25.0	1.23
I33	14 Feb 2020	22	14.30	89.97	7.3	33.53	8.0	25.0	1.35
I33	14 Feb 2020	23	14.23	90.01	7.2	33.53	8.0	25.0	1.28
I33	14 Feb 2020	24	14.15	90.00	7.2	33.53	8.0	25.0	1.19
I33	14 Feb 2020	25	13.98	89.93	7.0	33.55	8.0	25.1	1.15
I33	14 Feb 2020	26	13.79	89.85	6.9	33.57	8.0	25.1	1.09
I33	14 Feb 2020	27	13.58	89.76	6.7	33.56	8.0	25.2	1.05
I33	14 Feb 2020	28	13.57	88.73	6.7	33.55	8.0	25.2	1.01
I33	14 Feb 2020	29	13.56	88.15	6.7	33.54	8.0	25.2	0.98
I33	14 Feb 2020	30	13.55	87.76	6.6	33.54	8.0	25.2	0.97

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I34	14 Feb 2020	1	14.83	88.58	7.8	33.51	8.1	24.9	0.73
I34	14 Feb 2020	2	14.83	88.65	7.8	33.51	8.1	24.9	0.74
I34	14 Feb 2020	3	14.83	88.67	7.8	33.51	8.1	24.9	0.73
I34	14 Feb 2020	4	14.82	88.75	7.8	33.51	8.1	24.9	0.79
I34	14 Feb 2020	5	14.82	88.72	7.8	33.52	8.1	24.9	0.83
I34	14 Feb 2020	6	14.81	88.82	7.8	33.52	8.1	24.9	0.86
I34	14 Feb 2020	7	14.81	88.88	7.8	33.52	8.1	24.9	0.89
I34	14 Feb 2020	8	14.81	88.86	7.8	33.52	8.1	24.9	0.97
I34	14 Feb 2020	9	14.79	88.91	7.8	33.52	8.1	24.9	1.01
I34	14 Feb 2020	10	14.79	88.98	7.8	33.52	8.1	24.9	1.04
I34	14 Feb 2020	11	14.74	88.97	7.8	33.52	8.1	24.9	1.07
I34	14 Feb 2020	12	14.72	89.14	7.7	33.52	8.1	24.9	1.11
I34	14 Feb 2020	13	14.70	89.22	7.7	33.52	8.1	24.9	1.10
I34	14 Feb 2020	14	14.62	89.35	7.6	33.53	8.1	24.9	1.08
I34	14 Feb 2020	15	14.60	89.38	7.6	33.52	8.1	24.9	1.14
I34	14 Feb 2020	16	14.58	89.41	7.5	33.52	8.1	24.9	1.27
I34	14 Feb 2020	17	14.56	89.42	7.5	33.52	8.1	24.9	1.15
I34	14 Feb 2020	18	14.28	89.36	7.3	33.57	8.0	25.0	1.18
I34	14 Feb 2020	19	13.79	89.03	7.0	33.59	8.0	25.1	1.15
I35	14 Feb 2020	1	14.89	84.20	8.2	33.50	8.1	24.8	0.65
I35	14 Feb 2020	2	14.89	83.80	8.2	33.49	8.1	24.8	0.67
I35	14 Feb 2020	3	14.84	83.83	8.2	33.49	8.1	24.8	0.69
I35	14 Feb 2020	4	14.83	83.66	8.2	33.49	8.1	24.8	0.76
I35	14 Feb 2020	5	14.82	83.55	8.2	33.49	8.1	24.8	0.84
I35	14 Feb 2020	6	14.81	83.49	8.2	33.49	8.1	24.9	0.92
I35	14 Feb 2020	7	14.81	83.40	8.2	33.49	8.1	24.9	0.99
I35	14 Feb 2020	8	14.80	83.40	8.2	33.49	8.1	24.9	1.08
I35	14 Feb 2020	9	14.80	83.40	8.2	33.49	8.1	24.9	1.30
I35	14 Feb 2020	10	14.80	83.37	8.2	33.49	8.1	24.9	1.50
I35	14 Feb 2020	11	14.79	83.41	8.1	33.49	8.1	24.9	1.58
I35	14 Feb 2020	12	14.78	83.34	8.1	33.49	8.1	24.9	1.64
I35	14 Feb 2020	13	14.77	83.38	8.1	33.49	8.1	24.9	1.82
I35	14 Feb 2020	14	14.68	83.55	8.0	33.52	8.1	24.9	1.99
I35	14 Feb 2020	15	14.41	84.03	7.7	33.54	8.1	25.0	2.17
I35	14 Feb 2020	16	14.30	84.78	7.4	33.53	8.1	25.0	2.32
I35	14 Feb 2020	17	14.05	85.66	7.2	33.57	8.1	25.1	2.33
I35	14 Feb 2020	18	13.82	84.07	6.9	33.55	8.0	25.1	2.25
I35	14 Feb 2020	19	13.91	77.14	6.9	33.53	8.0	25.1	1.99
I36	14 Feb 2020	1	15.00	70.81	8.1	33.50	8.1	24.8	1.14
I36	14 Feb 2020	2	15.01	71.10	8.0	33.51	8.1	24.8	1.09
I36	14 Feb 2020	3	14.99	70.91	8.1	33.51	8.1	24.8	1.04
I36	14 Feb 2020	4	14.94	70.99	8.0	33.52	8.1	24.8	1.06
I36	14 Feb 2020	5	14.88	71.36	8.0	33.52	8.1	24.9	1.16
I36	14 Feb 2020	6	14.85	72.30	8.0	33.51	8.1	24.9	1.40
I36	14 Feb 2020	7	14.82	72.27	8.0	33.51	8.1	24.9	1.73
I36	14 Feb 2020	8	14.80	72.25	8.0	33.51	8.1	24.9	2.00
I36	14 Feb 2020	9	14.79	72.58	7.9	33.51	8.1	24.9	2.17
I36	14 Feb 2020	10	14.79	60.35	7.8	33.51	8.1	24.9	2.38
I36	14 Feb 2020	11	14.79	40.51	7.7	33.51	8.1	24.9	2.43
I37	14 Feb 2020	1	14.88	80.01	7.9	33.47	8.1	24.8	1.40
I37	14 Feb 2020	2	14.88	80.13	7.9	33.47	8.1	24.8	1.41

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I37	14 Feb 2020	3	14.88	79.99	7.9	33.47	8.1	24.8	1.50
I37	14 Feb 2020	4	14.88	80.17	7.9	33.47	8.1	24.8	1.60
I37	14 Feb 2020	5	14.88	80.36	7.9	33.47	8.1	24.8	1.75
I37	14 Feb 2020	6	14.88	80.43	7.9	33.47	8.1	24.8	1.92
I37	14 Feb 2020	7	14.88	80.27	7.9	33.47	8.1	24.8	1.98
I37	14 Feb 2020	8	14.87	80.07	7.9	33.47	8.1	24.8	2.06
I37	14 Feb 2020	9	14.87	79.92	7.8	33.47	8.1	24.8	2.13
I37	14 Feb 2020	10	14.87	78.98	7.9	33.47	8.1	24.8	2.17
I37	14 Feb 2020	11	14.86	78.76	7.8	33.47	8.1	24.8	2.24
I37	14 Feb 2020	12	14.51	79.92	7.5	33.56	8.0	25.0	2.30
I38	14 Feb 2020	1	15.09	81.34	8.1	33.54	8.1	24.8	0.54
I38	14 Feb 2020	2	14.95	80.59	8.1	33.52	8.1	24.8	0.56
I38	14 Feb 2020	3	14.91	79.46	8.1	33.52	8.1	24.8	0.63
I38	14 Feb 2020	4	14.89	78.93	8.2	33.51	8.1	24.8	0.73
I38	14 Feb 2020	5	14.88	78.78	8.1	33.51	8.1	24.9	0.84
I38	14 Feb 2020	6	14.87	78.61	8.2	33.51	8.1	24.9	0.96
I38	14 Feb 2020	7	14.86	78.80	8.2	33.51	8.1	24.9	1.06
I38	14 Feb 2020	8	14.85	78.32	8.2	33.51	8.1	24.9	1.21
I38	14 Feb 2020	9	14.85	78.38	8.1	33.51	8.1	24.9	1.41
I38	14 Feb 2020	10	14.85	78.56	8.1	33.51	8.1	24.9	1.55
I38	14 Feb 2020	11	14.85	76.29	8.1	33.51	8.1	24.9	1.77
I4	12 Feb 2020	1	14.88	85.21	8.0	33.48	8.1	24.8	0.86
I4	12 Feb 2020	2	14.83	85.05	8.0	33.49	8.1	24.8	0.86
I4	12 Feb 2020	3	14.76	84.61	8.0	33.48	8.1	24.9	0.85
I4	12 Feb 2020	4	14.74	85.19	8.0	33.46	8.1	24.8	0.90
I4	12 Feb 2020	5	14.72	85.33	8.1	33.48	8.1	24.9	0.98
I4	12 Feb 2020	6	14.71	85.25	8.1	33.48	8.1	24.9	1.10
I4	12 Feb 2020	7	14.70	85.22	8.0	33.45	8.1	24.8	1.28
I4	12 Feb 2020	8	14.69	85.18	8.0	33.48	8.1	24.9	1.46
I4	12 Feb 2020	9	14.68	85.31	8.0	33.47	8.1	24.9	1.63
I4	12 Feb 2020	10	14.68	85.51	7.9	33.48	8.1	24.9	1.88
I4	12 Feb 2020	11	14.67	85.44	7.9	33.47	8.1	24.9	1.98
I4	12 Feb 2020	12	14.67	85.50	7.9	33.48	8.1	24.9	2.17
I4	12 Feb 2020	13	14.67	85.55	7.9	33.48	8.1	24.9	2.36
I4	12 Feb 2020	14	14.60	85.38	7.8	33.50	8.1	24.9	2.39
I4	12 Feb 2020	15	14.51	84.42	7.6	33.50	8.1	24.9	2.44
I4	12 Feb 2020	16	14.37	82.25	7.5	33.53	8.1	25.0	2.47
I4	12 Feb 2020	17	14.18	79.98	7.2	33.53	8.0	25.0	2.52
I4	12 Feb 2020	18	14.18	80.36	7.2	33.51	8.0	25.0	2.69
I5	12 Feb 2020	1	14.98	83.16	8.1	33.48	8.1	24.8	0.84
I5	12 Feb 2020	2	14.97	83.24	8.1	33.48	8.1	24.8	0.84
I5	12 Feb 2020	3	14.84	83.17	8.1	33.49	8.1	24.8	0.85
I5	12 Feb 2020	4	14.80	82.65	8.2	33.48	8.1	24.8	0.92
I5	12 Feb 2020	5	14.79	82.41	8.1	33.48	8.1	24.8	1.05
I5	12 Feb 2020	6	14.78	82.32	8.1	33.48	8.1	24.8	1.29
I5	12 Feb 2020	7	14.78	81.88	8.1	33.48	8.1	24.8	1.58
I5	12 Feb 2020	8	14.76	81.53	8.1	33.48	8.1	24.9	1.86
I5	12 Feb 2020	9	14.75	81.51	8.1	33.48	8.1	24.9	2.16
I5	12 Feb 2020	10	14.72	80.49	8.1	33.48	8.1	24.9	2.59
I5	12 Feb 2020	11	14.68	79.77	8.0	33.48	8.1	24.9	2.88
I5	12 Feb 2020	12	14.62	77.73	8.0	33.48	8.1	24.9	2.99
I5	12 Feb 2020	13	14.55	73.30	7.8	33.48	8.1	24.9	3.04

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I5	12 Feb 2020	14	14.49	71.05	7.7	33.49	8.1	24.9	2.81
I6	12 Feb 2020	1	14.92	83.56	8.0	33.45	8.1	24.8	0.80
I6	12 Feb 2020	2	14.89	83.91	8.0	33.45	8.1	24.8	0.80
I6	12 Feb 2020	3	14.81	84.40	8.0	33.46	8.1	24.8	0.82
I6	12 Feb 2020	4	14.77	84.21	8.0	33.46	8.1	24.8	0.87
I6	12 Feb 2020	5	14.72	83.99	8.1	33.46	8.1	24.8	1.00
I6	12 Feb 2020	6	14.70	83.83	8.1	33.46	8.1	24.9	1.19
I6	12 Feb 2020	7	14.68	83.79	8.0	33.46	8.1	24.9	1.37
I6	12 Feb 2020	8	14.67	83.83	8.1	33.46	8.1	24.9	1.59
I6	12 Feb 2020	9	14.66	84.04	8.0	33.46	8.1	24.9	1.88
I6	12 Feb 2020	10	14.58	84.73	7.9	33.49	8.1	24.9	1.99
I6	12 Feb 2020	11	14.56	85.84	7.8	33.49	8.1	24.9	2.05
I6	12 Feb 2020	12	14.37	86.21	7.6	33.53	8.1	25.0	2.24
I6	12 Feb 2020	13	14.16	86.58	7.4	33.55	8.1	25.0	2.29
I6	12 Feb 2020	14	13.98	86.34	7.2	33.53	8.0	25.1	2.18
I6	12 Feb 2020	15	13.96	86.63	7.2	33.52	8.0	25.1	2.05
I6	12 Feb 2020	16	13.92	86.86	7.1	33.52	8.0	25.1	2.03
I6	12 Feb 2020	17	13.91	87.17	7.1	33.52	8.0	25.1	1.95
I6	12 Feb 2020	18	13.89	87.21	7.0	33.52	8.0	25.1	1.94
I6	12 Feb 2020	19	13.87	87.45	7.0	33.52	8.0	25.1	1.96
I6	12 Feb 2020	20	13.84	87.50	7.0	33.52	8.0	25.1	1.98
I6	12 Feb 2020	21	13.82	87.35	7.0	33.52	8.0	25.1	1.93
I6	12 Feb 2020	22	13.81	87.08	7.0	33.52	8.0	25.1	2.10
I6	12 Feb 2020	23	13.81	87.09	6.9	33.52	8.0	25.1	2.01
I6	12 Feb 2020	24	13.81	87.03	6.9	33.52	8.0	25.1	1.91
I6	12 Feb 2020	25	13.81	87.06	6.9	33.52	8.0	25.1	1.94
I6	12 Feb 2020	26	13.81	86.98	6.9	33.52	8.0	25.1	1.99
I7	12 Feb 2020	1	15.32	90.76	7.9	33.48	8.1	24.7	0.28
I7	12 Feb 2020	2	15.30	90.75	7.9	33.48	8.1	24.7	0.28
I7	12 Feb 2020	3	15.28	90.19	7.9	33.48	8.1	24.7	0.28
I7	12 Feb 2020	4	15.28	90.29	7.9	33.48	8.1	24.7	0.29
I7	12 Feb 2020	5	15.28	90.57	7.9	33.48	8.1	24.7	0.30
I7	12 Feb 2020	6	15.27	90.67	7.9	33.48	8.1	24.7	0.32
I7	12 Feb 2020	7	15.27	90.69	7.9	33.48	8.1	24.7	0.32
I7	12 Feb 2020	8	15.26	90.69	7.9	33.48	8.1	24.7	0.34
I7	12 Feb 2020	9	15.26	90.57	7.9	33.48	8.1	24.7	0.36
I7	12 Feb 2020	10	15.25	90.57	7.9	33.48	8.1	24.7	0.38
I7	12 Feb 2020	11	15.25	90.53	7.9	33.48	8.1	24.7	0.38
I7	12 Feb 2020	12	15.25	90.57	7.9	33.48	8.1	24.7	0.41
I7	12 Feb 2020	13	15.25	90.55	7.9	33.48	8.1	24.8	0.43
I7	12 Feb 2020	14	15.24	90.43	7.9	33.49	8.1	24.8	0.46
I7	12 Feb 2020	15	15.23	90.48	7.9	33.49	8.1	24.8	0.47
I7	12 Feb 2020	16	15.23	90.50	7.9	33.49	8.1	24.8	0.50
I7	12 Feb 2020	17	15.23	90.48	7.9	33.49	8.1	24.8	0.52
I7	12 Feb 2020	18	15.22	90.48	7.9	33.49	8.1	24.8	0.57
I7	12 Feb 2020	19	15.20	90.35	7.9	33.49	8.1	24.8	0.59
I7	12 Feb 2020	20	15.18	90.32	7.9	33.50	8.1	24.8	0.68
I7	12 Feb 2020	21	15.15	90.27	7.9	33.50	8.1	24.8	0.69
I7	12 Feb 2020	22	15.15	90.12	7.9	33.49	8.1	24.8	0.79
I7	12 Feb 2020	23	15.14	90.14	7.9	33.50	8.1	24.8	0.85
I7	12 Feb 2020	24	15.14	90.14	7.9	33.49	8.1	24.8	0.88
I7	12 Feb 2020	25	15.14	90.16	7.9	33.50	8.1	24.8	0.91
I7	12 Feb 2020	26	15.13	90.09	7.9	33.50	8.1	24.8	0.88

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
17	12 Feb 2020	27	15.12	90.03	7.9	33.50	8.1	24.8	0.92
17	12 Feb 2020	28	15.12	90.10	7.9	33.49	8.1	24.8	0.97
17	12 Feb 2020	29	15.11	90.12	7.9	33.50	8.1	24.8	0.98
17	12 Feb 2020	30	15.10	90.12	7.9	33.50	8.1	24.8	0.94
17	12 Feb 2020	31	15.11	90.14	7.8	33.49	8.1	24.8	1.01
17	12 Feb 2020	32	15.11	90.06	7.8	33.49	8.1	24.8	0.97
17	12 Feb 2020	33	15.11	90.09	7.9	33.49	8.1	24.8	0.98
17	12 Feb 2020	34	15.10	90.13	7.8	33.49	8.1	24.8	0.99
17	12 Feb 2020	35	15.09	90.10	7.8	33.50	8.1	24.8	0.96
17	12 Feb 2020	36	15.08	90.11	7.8	33.50	8.1	24.8	0.97
17	12 Feb 2020	37	15.08	90.02	7.8	33.50	8.1	24.8	1.01
17	12 Feb 2020	38	15.08	90.05	7.8	33.50	8.1	24.8	1.01
17	12 Feb 2020	39	15.06	90.06	7.8	33.50	8.1	24.8	1.02
17	12 Feb 2020	40	15.05	89.96	7.8	33.50	8.1	24.8	1.04
17	12 Feb 2020	41	15.03	89.98	7.8	33.50	8.1	24.8	1.03
17	12 Feb 2020	42	15.01	90.02	7.8	33.50	8.1	24.8	1.01
17	12 Feb 2020	43	14.97	89.99	7.8	33.50	8.1	24.8	1.06
17	12 Feb 2020	44	14.85	90.23	7.7	33.52	8.1	24.9	1.03
17	12 Feb 2020	45	14.69	90.26	7.6	33.52	8.1	24.9	1.09
17	12 Feb 2020	46	14.30	90.24	7.4	33.56	8.0	25.0	1.06
17	12 Feb 2020	47	14.01	90.30	7.2	33.54	8.0	25.1	1.18
17	12 Feb 2020	48	13.92	90.34	7.1	33.53	8.0	25.1	1.26
17	12 Feb 2020	49	13.55	90.29	6.8	33.61	8.0	25.2	1.30
17	12 Feb 2020	50	12.93	90.36	6.4	33.62	7.9	25.3	1.24
17	12 Feb 2020	51	12.88	90.56	6.3	33.60	7.9	25.3	1.10
17	12 Feb 2020	52	12.88	90.52	6.2	33.59	7.9	25.3	0.95
18	12 Feb 2020	1	15.14	88.95	7.8	33.51	8.1	24.8	0.55
18	12 Feb 2020	2	15.09	89.25	7.9	33.51	8.1	24.8	0.55
18	12 Feb 2020	3	15.06	89.36	7.9	33.51	8.1	24.8	0.58
18	12 Feb 2020	4	15.04	89.42	7.8	33.51	8.1	24.8	0.60
18	12 Feb 2020	5	15.03	89.43	7.8	33.51	8.1	24.8	0.61
18	12 Feb 2020	6	15.00	89.33	7.8	33.51	8.1	24.8	0.63
18	12 Feb 2020	7	14.98	89.18	7.8	33.51	8.1	24.8	0.68
18	12 Feb 2020	8	14.92	89.09	7.8	33.51	8.1	24.8	0.70
18	12 Feb 2020	9	14.90	89.03	7.8	33.51	8.1	24.8	0.72
18	12 Feb 2020	10	14.87	88.92	7.8	33.51	8.1	24.8	0.78
18	12 Feb 2020	11	14.86	88.93	7.8	33.50	8.1	24.8	0.82
18	12 Feb 2020	12	14.85	88.86	7.8	33.51	8.1	24.9	0.83
18	12 Feb 2020	13	14.85	88.87	7.8	33.50	8.1	24.9	0.95
18	12 Feb 2020	14	14.81	88.83	7.8	33.51	8.1	24.9	0.98
18	12 Feb 2020	15	14.80	88.77	7.8	33.51	8.1	24.9	1.03
18	12 Feb 2020	16	14.79	88.75	7.8	33.51	8.1	24.9	1.11
18	12 Feb 2020	17	14.79	88.83	7.8	33.51	8.1	24.9	1.21
18	12 Feb 2020	18	14.77	88.63	7.7	33.51	8.1	24.9	1.26
18	12 Feb 2020	19	14.75	88.81	7.8	33.51	8.1	24.9	1.33
18	12 Feb 2020	20	14.73	88.72	7.7	33.51	8.1	24.9	1.39
18	12 Feb 2020	21	14.72	88.79	7.8	33.51	8.1	24.9	1.39
18	12 Feb 2020	22	14.71	88.78	7.8	33.51	8.1	24.9	1.50
18	12 Feb 2020	23	14.71	88.89	7.7	33.51	8.1	24.9	1.48
18	12 Feb 2020	24	14.70	88.99	7.7	33.51	8.1	24.9	1.59
18	12 Feb 2020	25	14.56	88.97	7.6	33.53	8.1	24.9	1.61
18	12 Feb 2020	26	14.43	89.03	7.5	33.52	8.1	25.0	1.58
18	12 Feb 2020	27	14.40	89.17	7.5	33.52	8.1	25.0	1.66
18	12 Feb 2020	28	14.35	89.26	7.5	33.52	8.1	25.0	1.60

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I8	12 Feb 2020	29	14.25	89.25	7.4	33.53	8.1	25.0	1.60
I8	12 Feb 2020	30	13.89	89.37	7.2	33.56	8.0	25.1	1.56
I8	12 Feb 2020	31	13.71	88.83	7.0	33.54	8.0	25.1	1.52
I8	12 Feb 2020	32	13.58	87.98	6.9	33.54	8.0	25.1	1.57
I8	12 Feb 2020	33	13.57	87.87	6.9	33.53	8.0	25.1	1.62
I8	12 Feb 2020	34	13.55	87.81	6.9	33.53	8.0	25.1	1.83
I8	12 Feb 2020	35	13.54	87.74	6.8	33.53	8.0	25.1	1.74
I8	12 Feb 2020	36	13.54	87.71	6.8	33.52	8.0	25.1	1.79
I9	12 Feb 2020	1	15.16	78.08	8.1	33.40	8.1	24.7	0.77
I9	12 Feb 2020	2	15.14	78.13	8.1	33.40	8.1	24.7	0.74
I9	12 Feb 2020	3	15.04	78.49	8.1	33.44	8.1	24.8	0.78
I9	12 Feb 2020	4	15.01	79.61	8.1	33.47	8.1	24.8	0.81
I9	12 Feb 2020	5	14.99	81.44	8.0	33.48	8.1	24.8	0.93
I9	12 Feb 2020	6	14.99	82.76	8.0	33.48	8.1	24.8	1.01
I9	12 Feb 2020	7	14.98	83.37	8.0	33.48	8.1	24.8	0.99
I9	12 Feb 2020	8	14.98	83.55	8.0	33.48	8.1	24.8	1.06
I9	12 Feb 2020	9	14.99	84.06	8.0	33.49	8.1	24.8	1.11
I9	12 Feb 2020	10	14.98	84.51	8.0	33.49	8.1	24.8	1.19
I9	12 Feb 2020	11	14.97	84.62	8.0	33.50	8.1	24.8	1.22
I9	12 Feb 2020	12	14.95	84.65	8.0	33.50	8.1	24.8	1.27
I9	12 Feb 2020	13	14.94	84.72	8.0	33.50	8.1	24.8	1.36
I9	12 Feb 2020	14	14.90	84.84	7.9	33.50	8.1	24.8	1.46
I9	12 Feb 2020	15	14.83	85.00	7.9	33.51	8.1	24.9	1.55
I9	12 Feb 2020	16	14.79	85.20	7.8	33.51	8.1	24.9	1.66
I9	12 Feb 2020	17	14.62	85.28	7.7	33.52	8.1	24.9	1.74
I9	12 Feb 2020	18	14.55	85.33	7.7	33.49	8.1	24.9	1.77
I9	12 Feb 2020	19	14.55	85.18	7.6	33.49	8.1	24.9	1.87
I9	12 Feb 2020	20	14.54	85.31	7.6	33.49	8.1	24.9	1.97
I9	12 Feb 2020	21	14.47	85.33	7.6	33.51	8.1	24.9	2.02
I9	12 Feb 2020	22	14.22	85.18	7.5	33.53	8.1	25.0	2.16
I9	12 Feb 2020	23	13.95	85.21	7.3	33.55	8.0	25.1	2.27
I9	12 Feb 2020	24	13.84	85.30	7.2	33.53	8.0	25.1	2.40
I9	12 Feb 2020	25	13.81	85.26	7.1	33.53	8.0	25.1	2.24
I9	12 Feb 2020	26	13.79	85.52	7.0	33.53	8.0	25.1	2.22
I9	12 Feb 2020	27	13.73	85.75	7.0	33.54	8.0	25.1	2.17
I9	12 Feb 2020	28	13.57	85.65	6.8	33.53	8.0	25.1	2.00
I9	12 Feb 2020	29	13.55	84.54	6.8	33.53	8.0	25.1	2.00

NA = not available

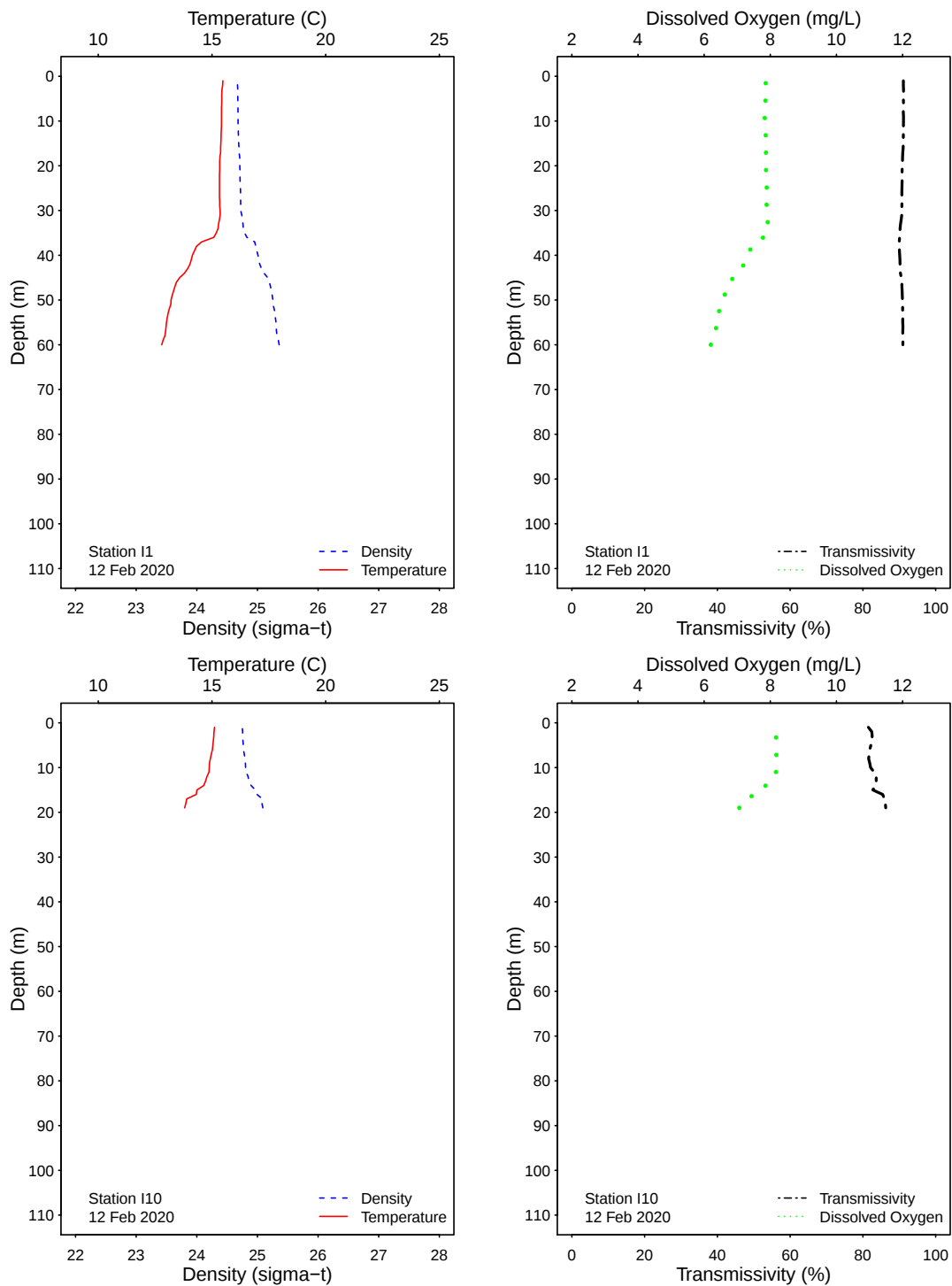


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

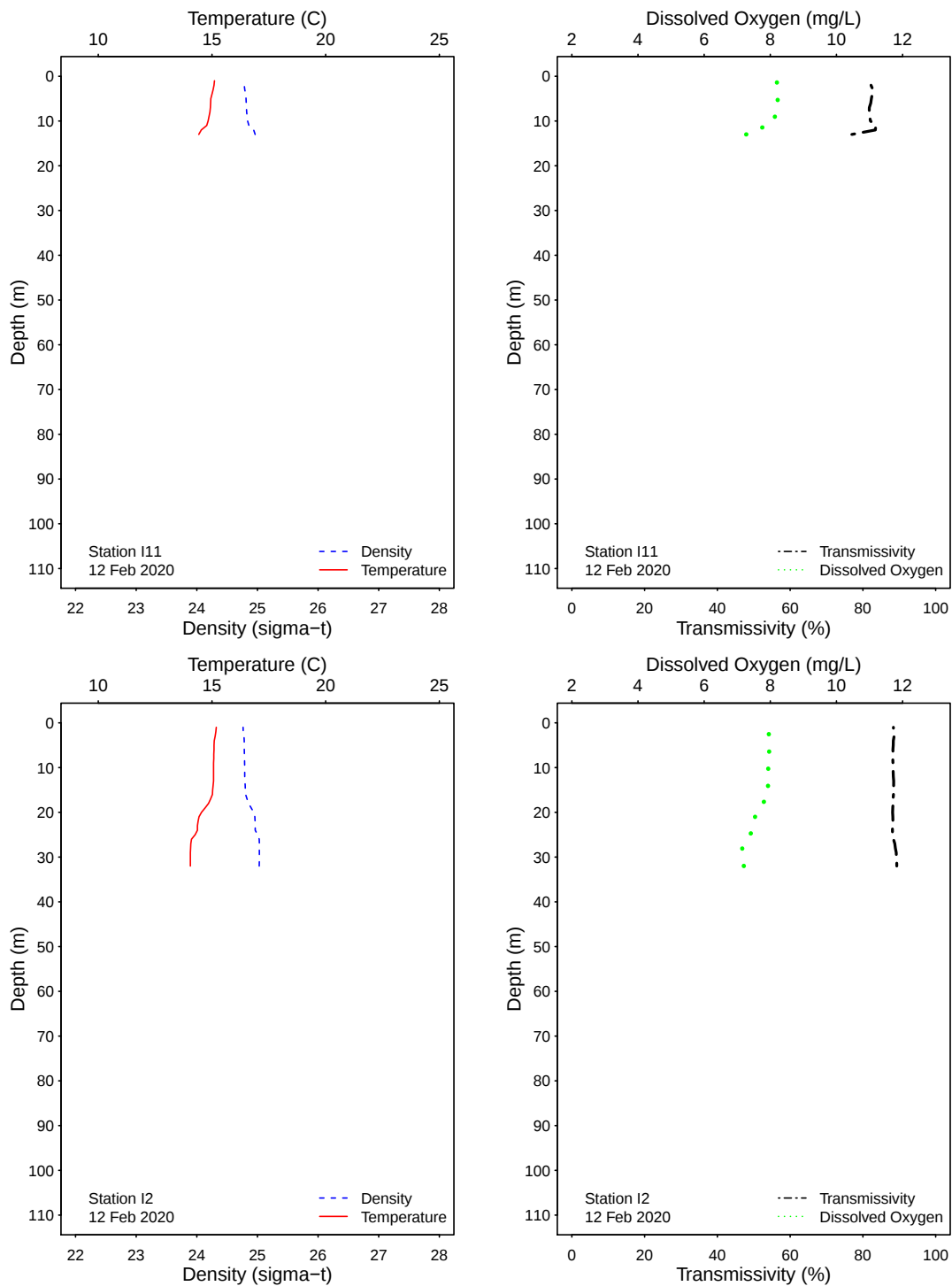


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

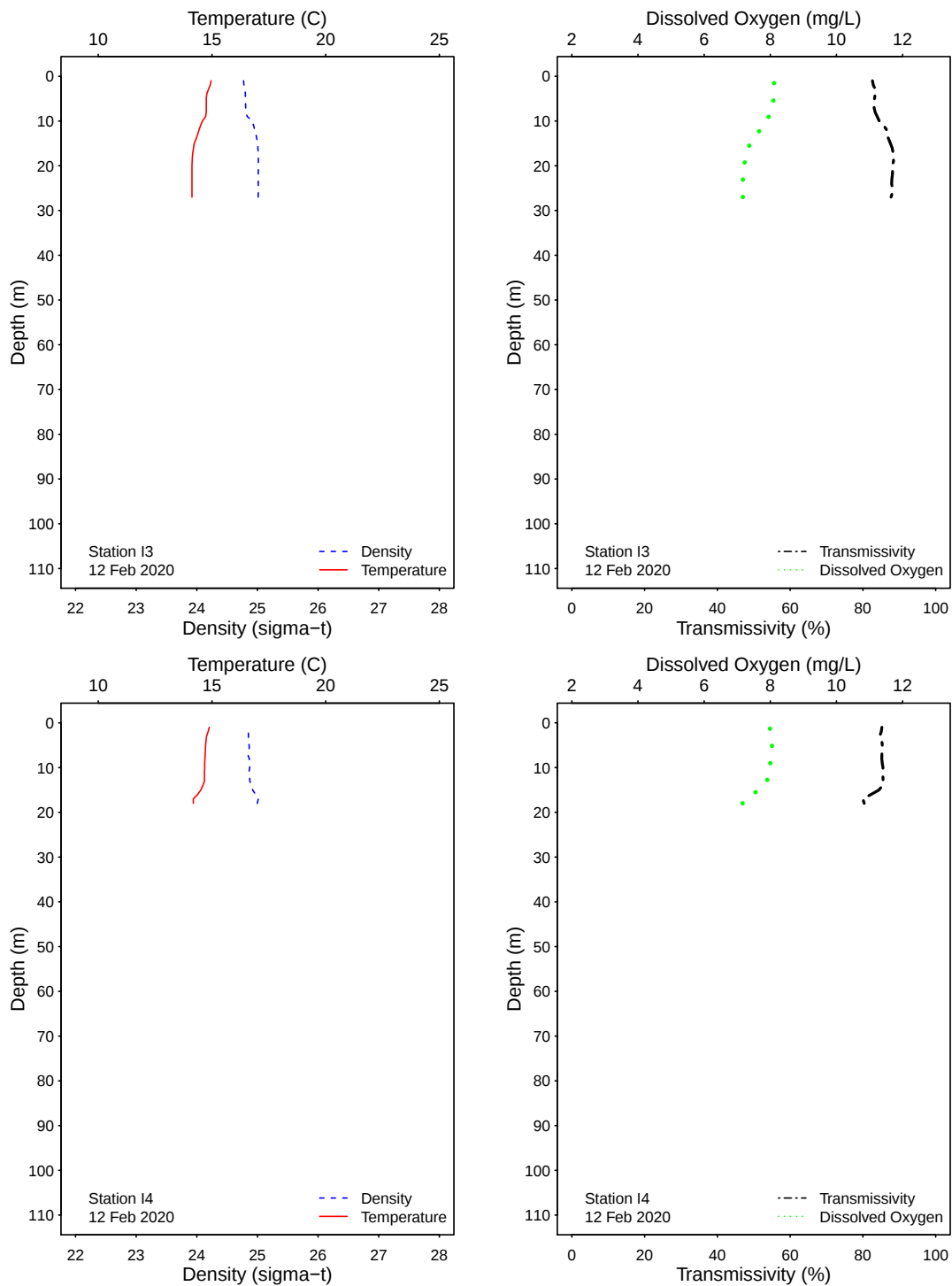


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

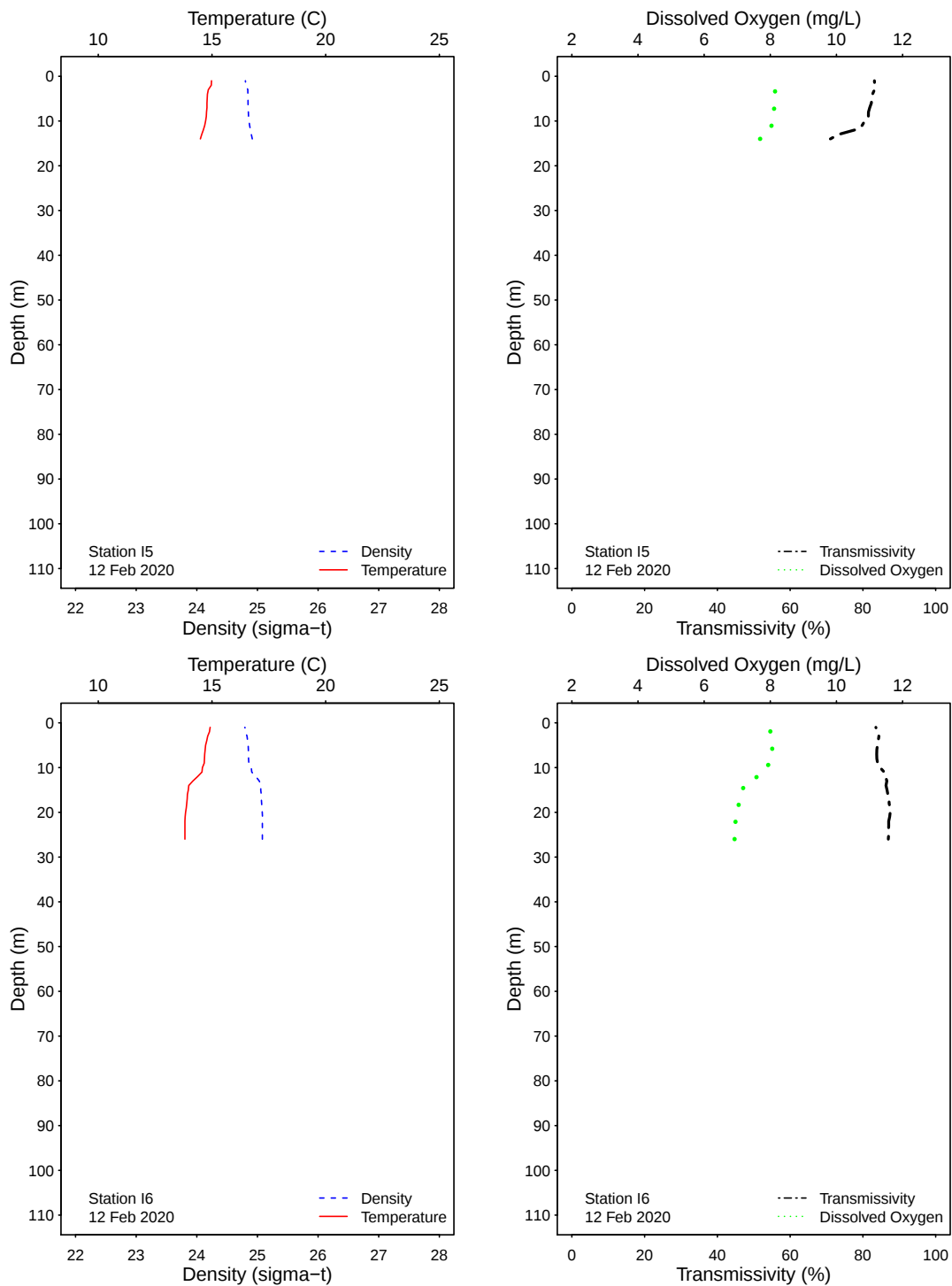


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

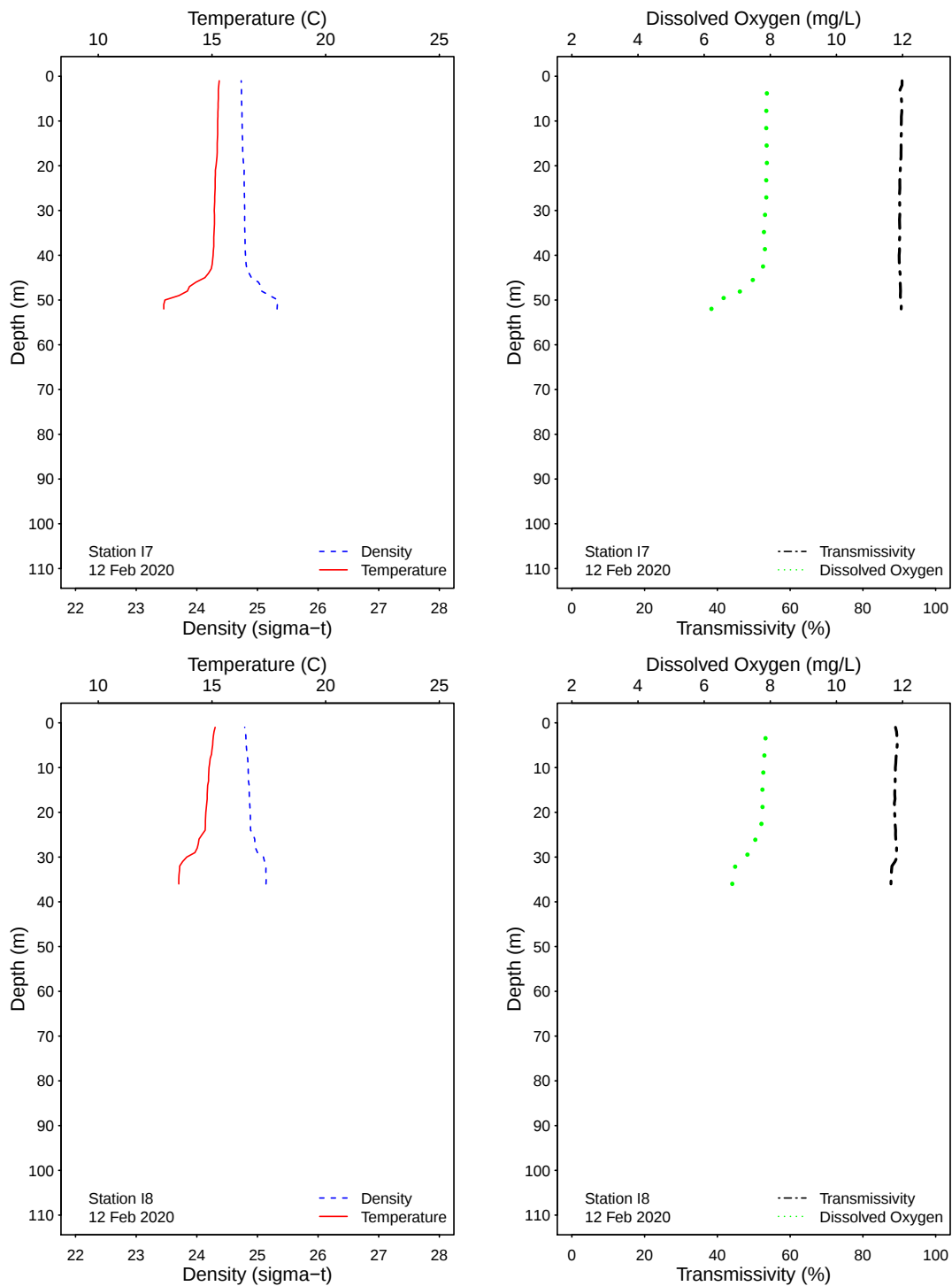


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

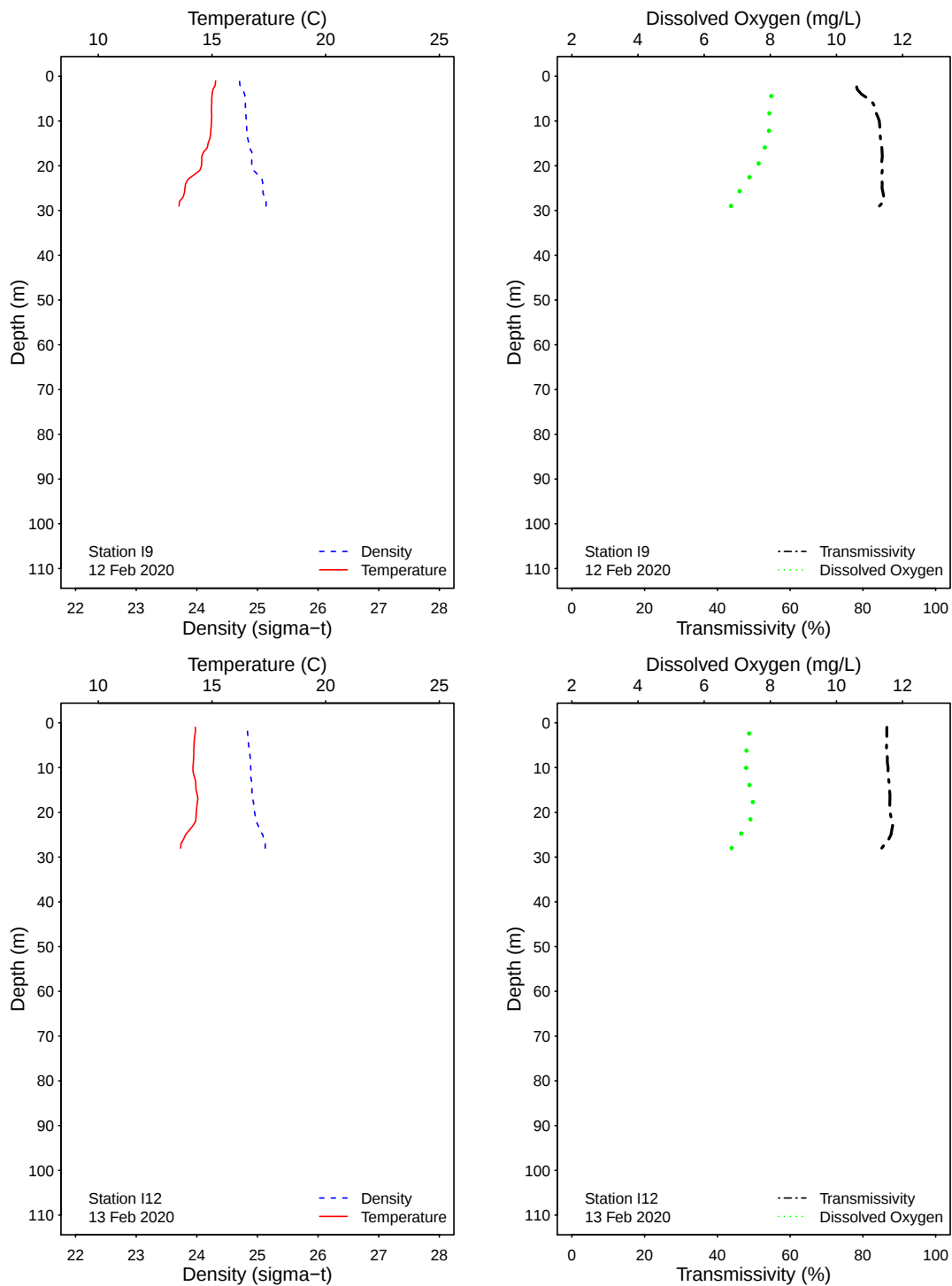


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

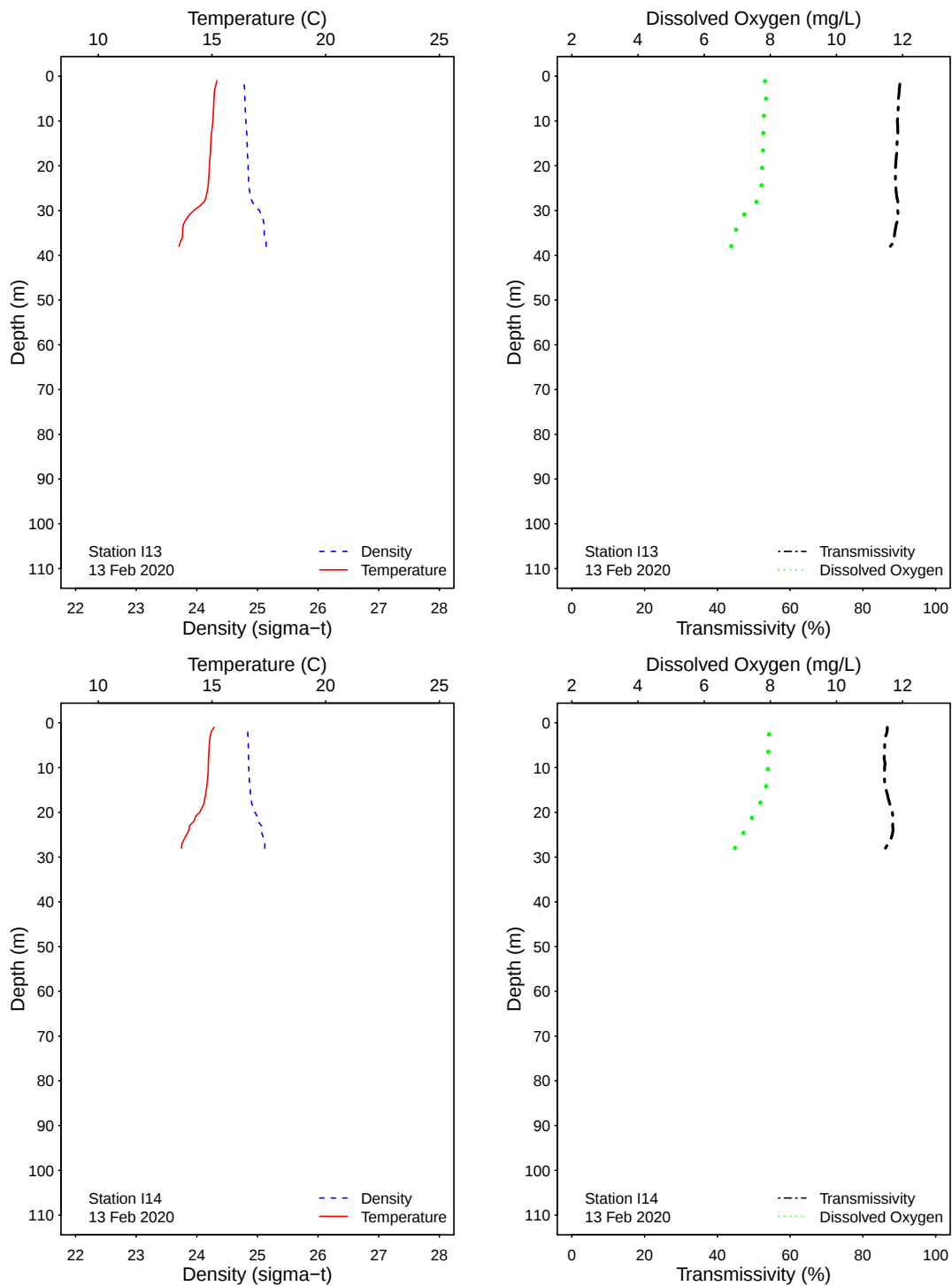


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

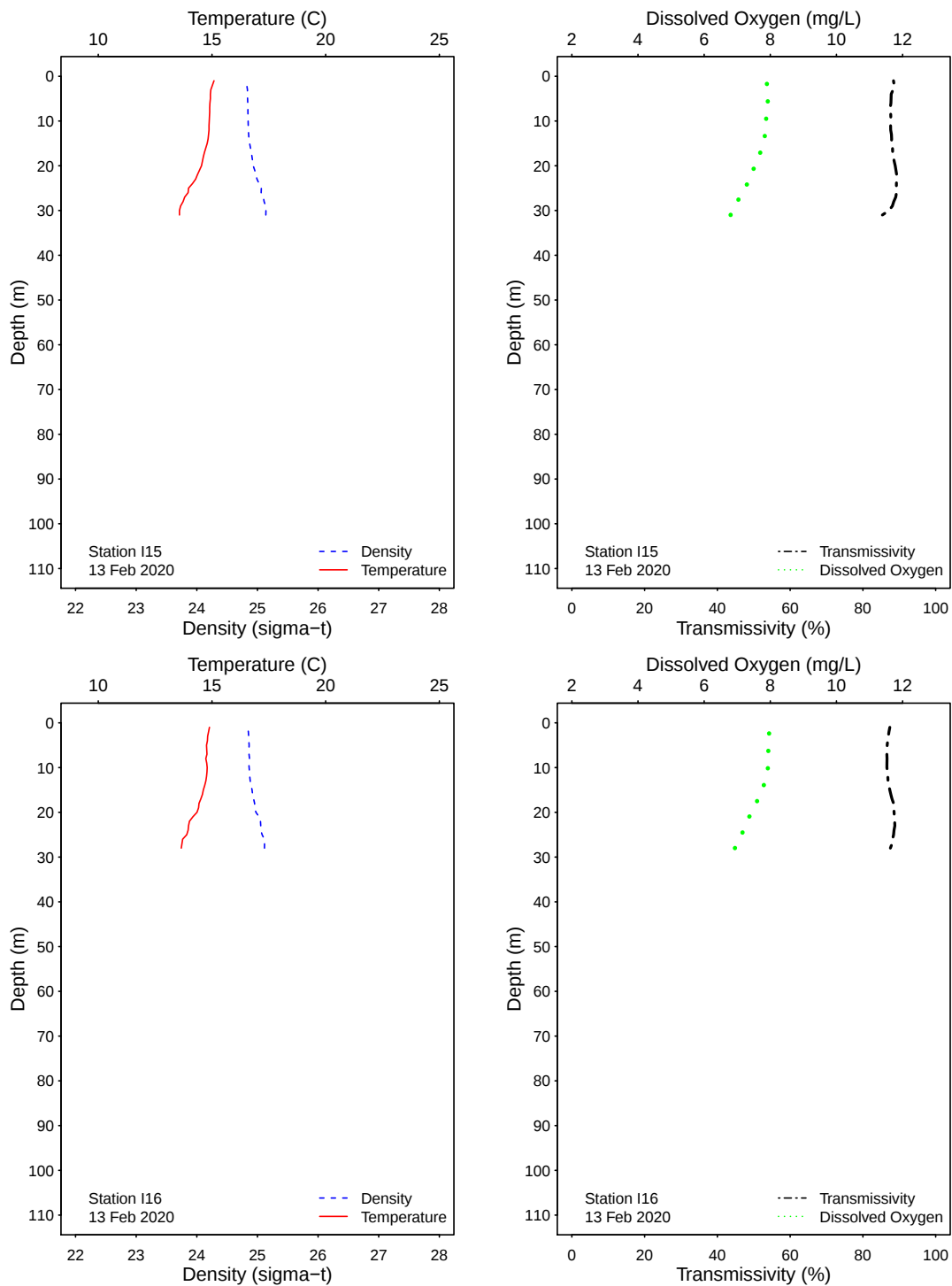


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

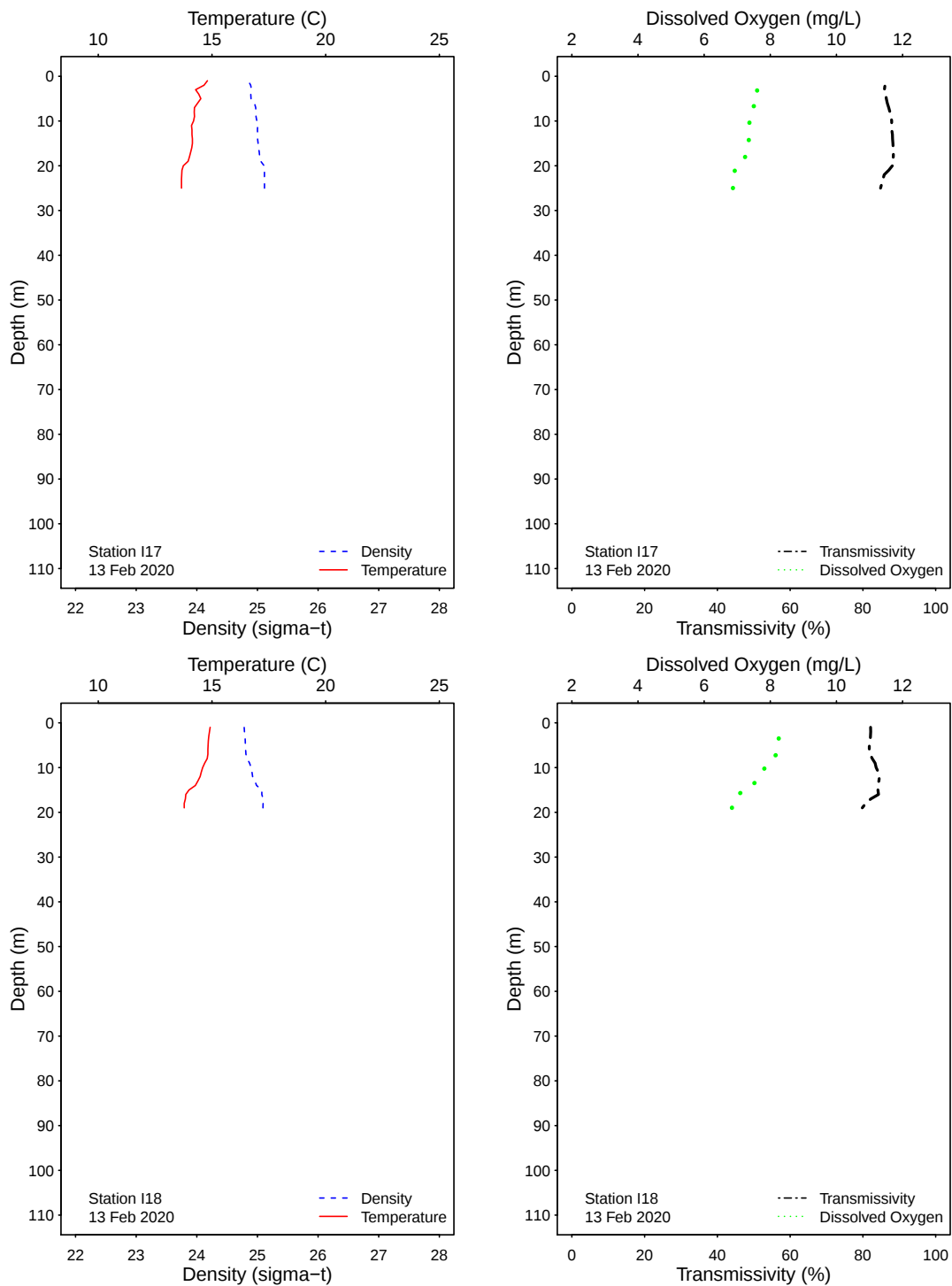


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

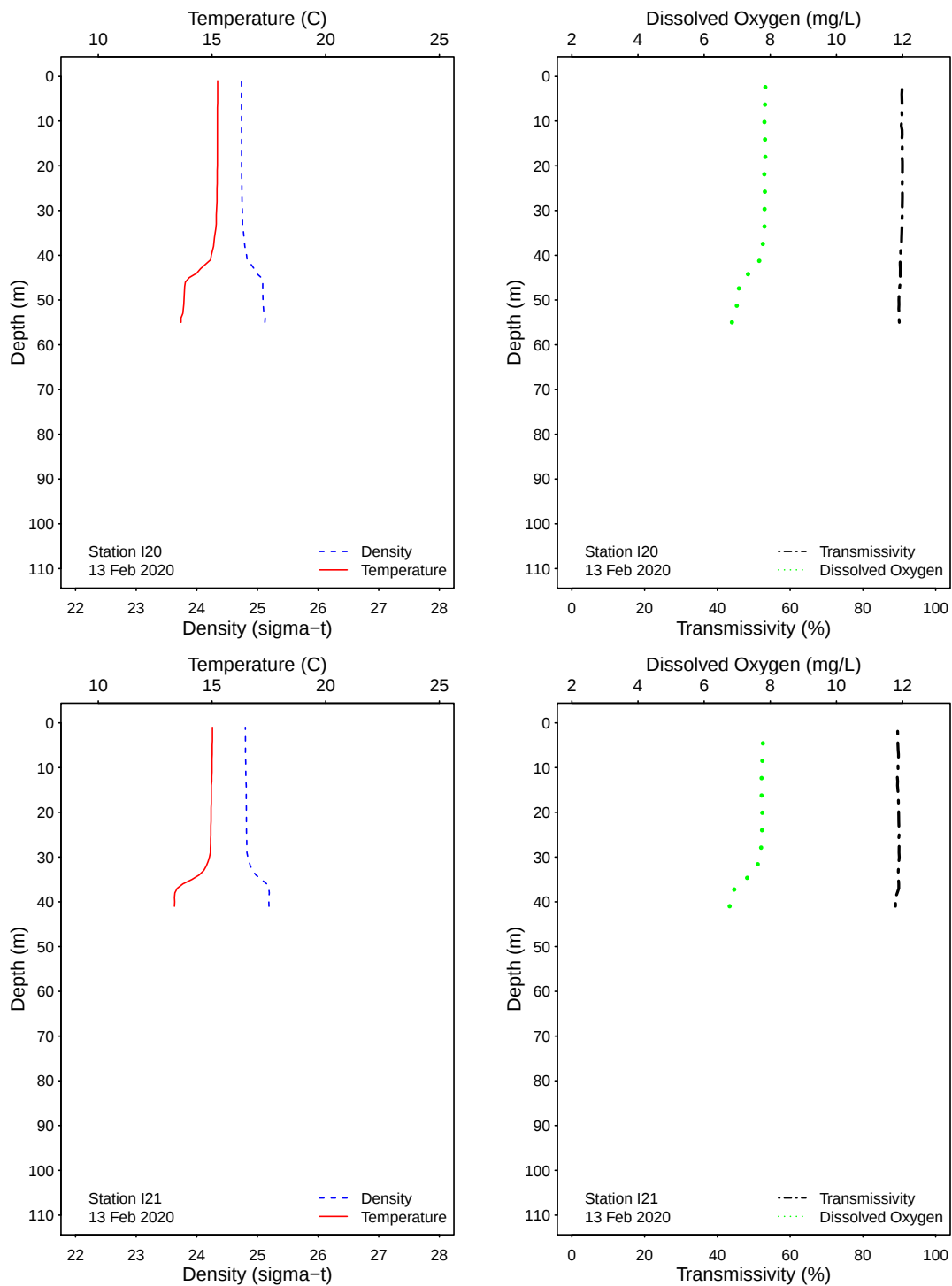


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

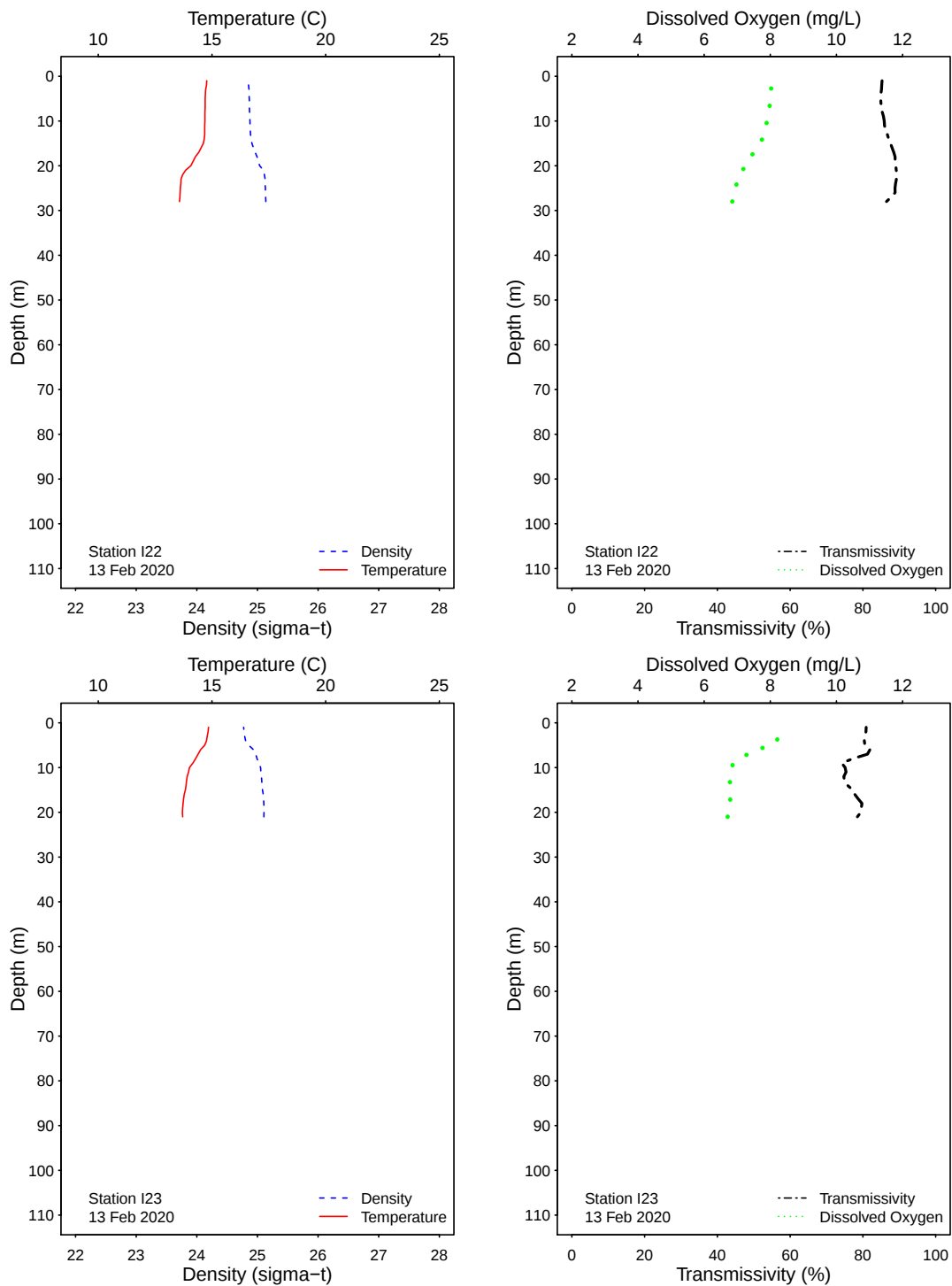


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

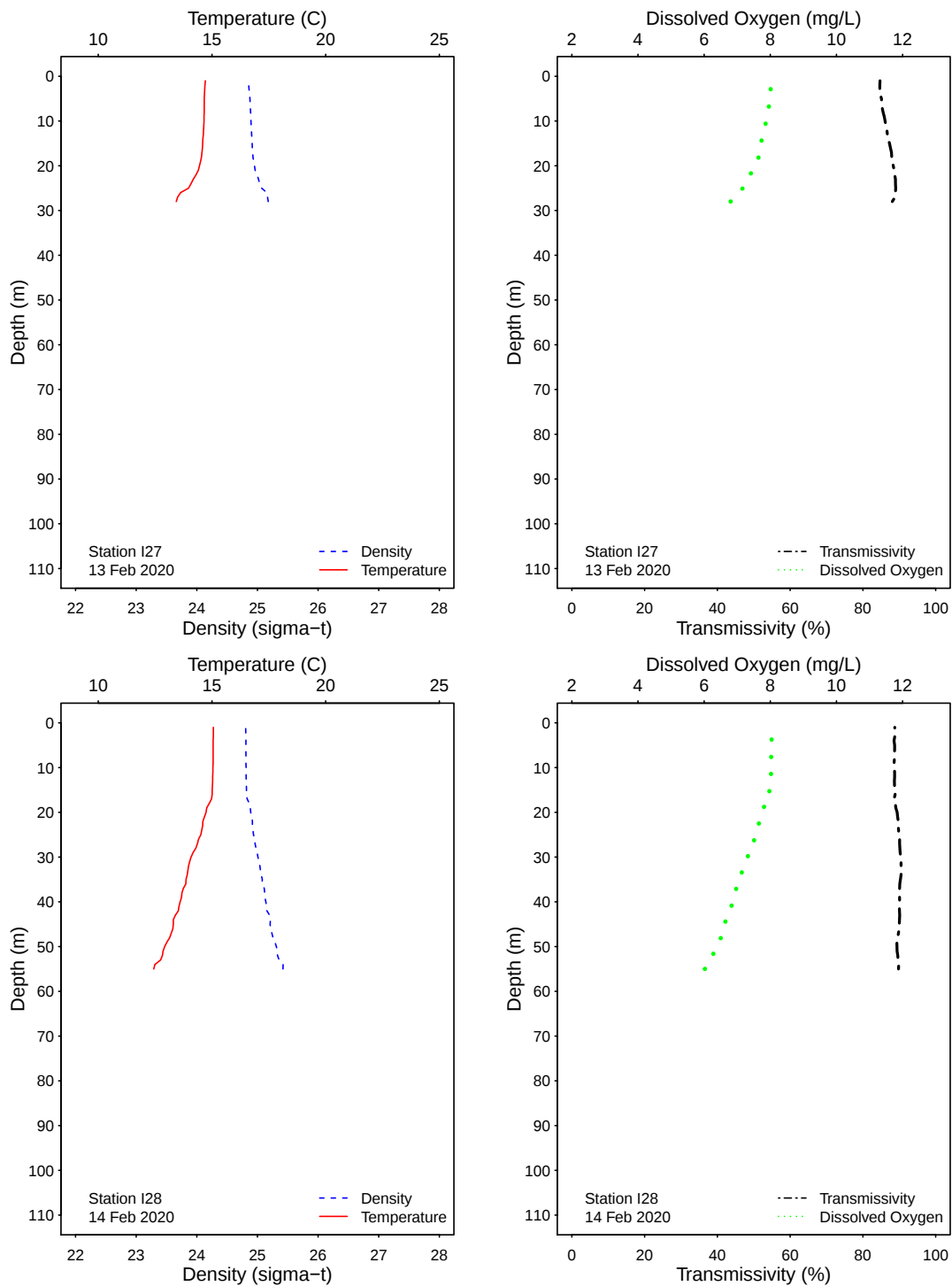


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

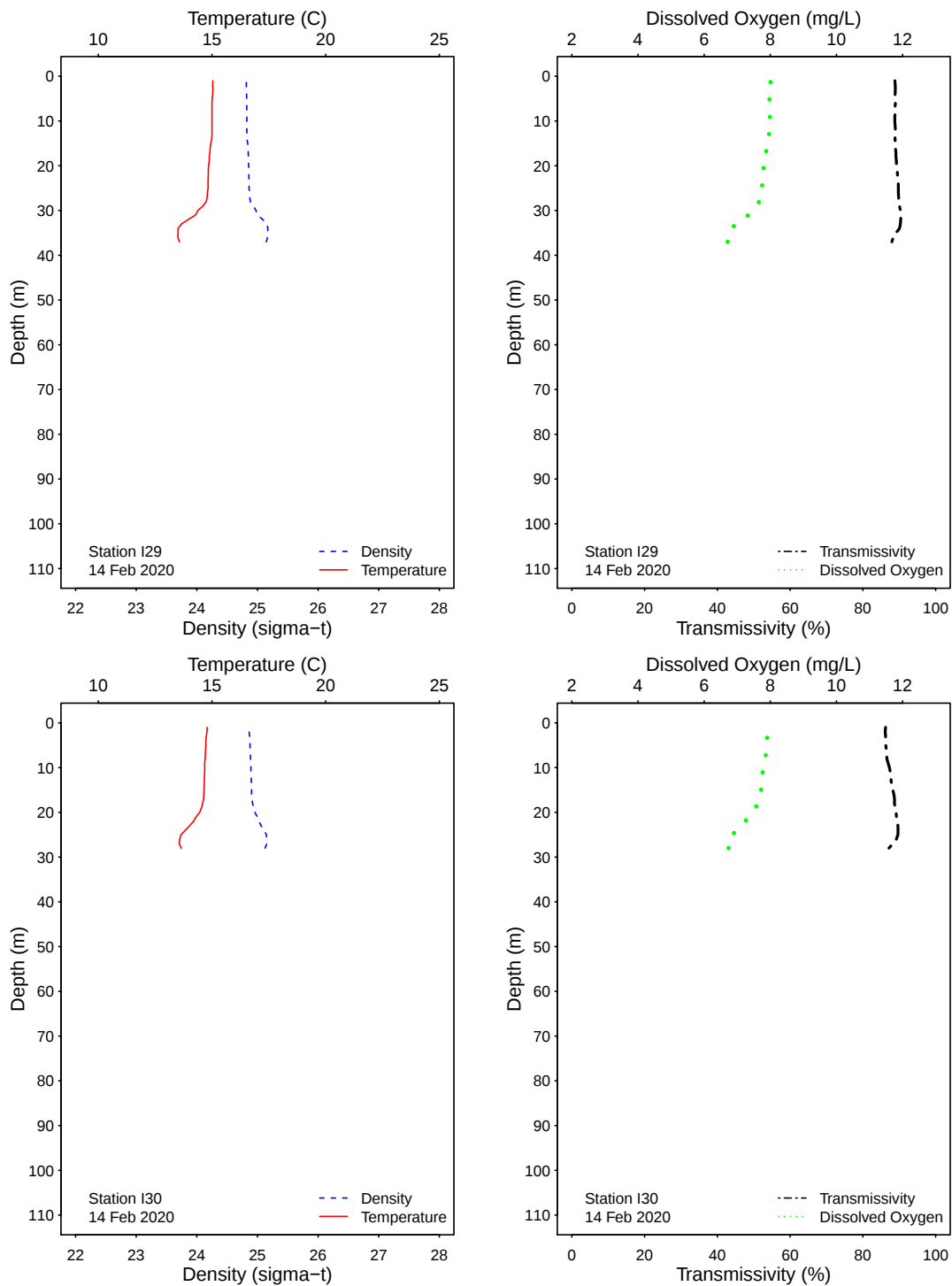


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

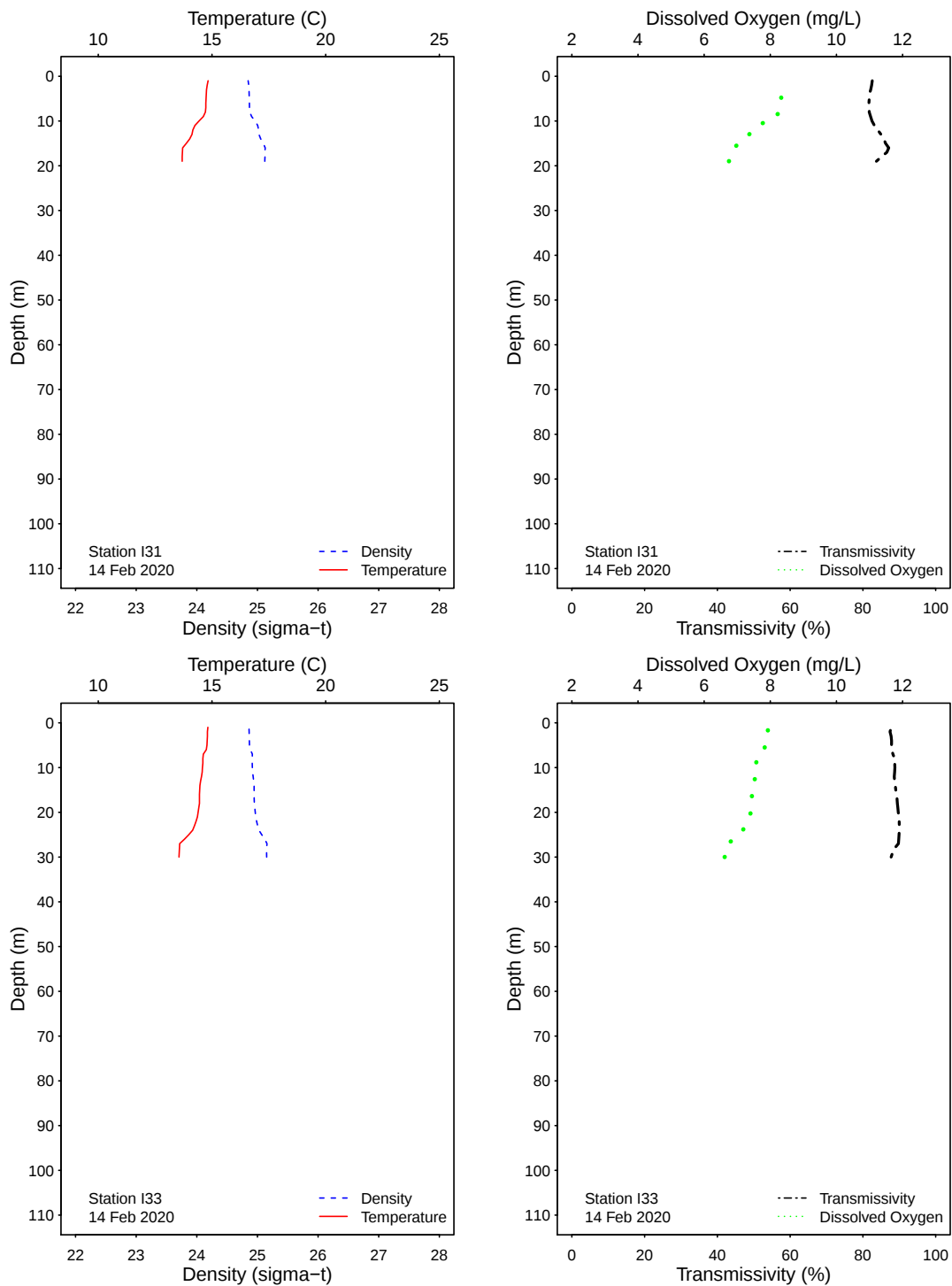


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

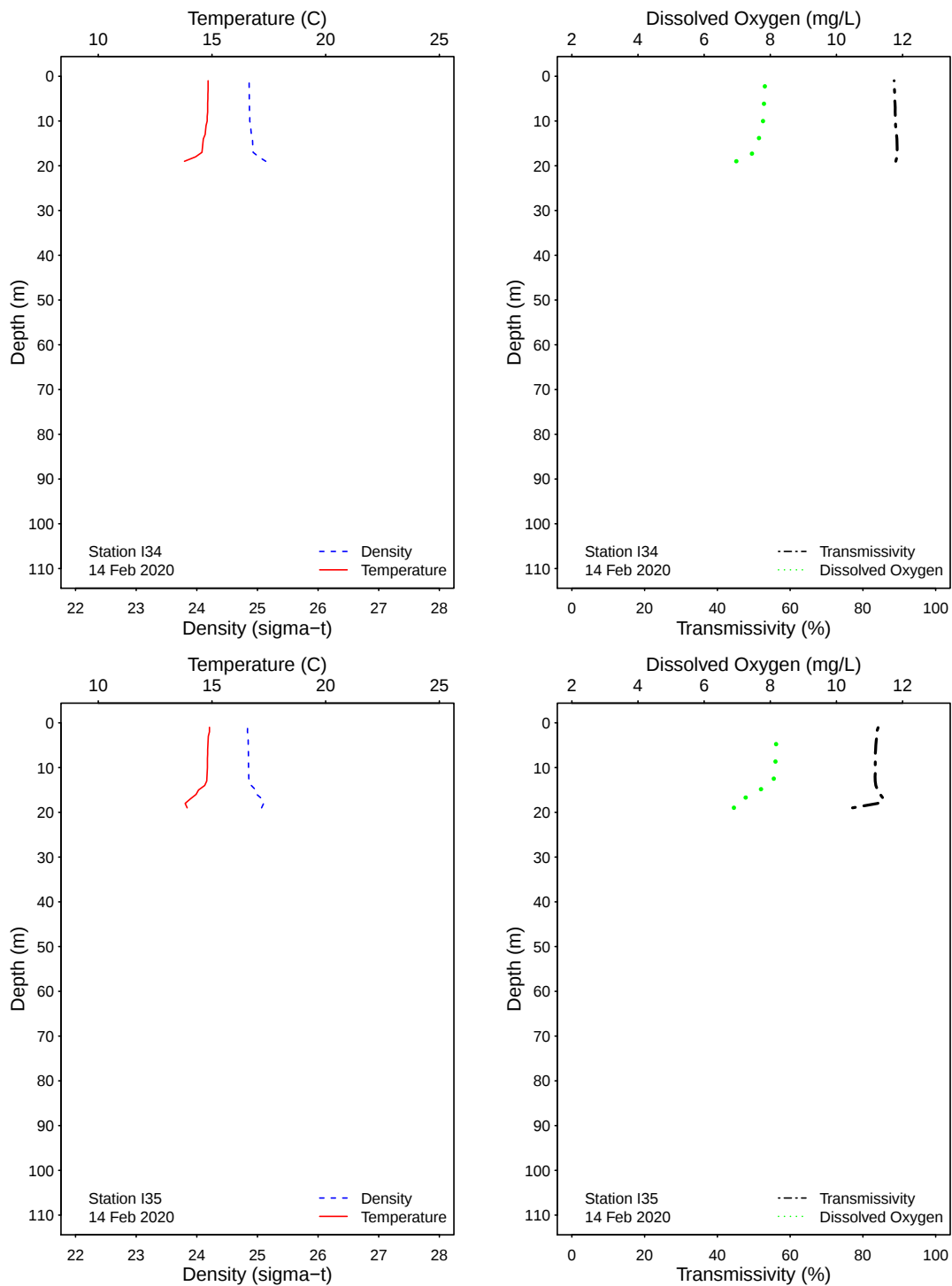


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

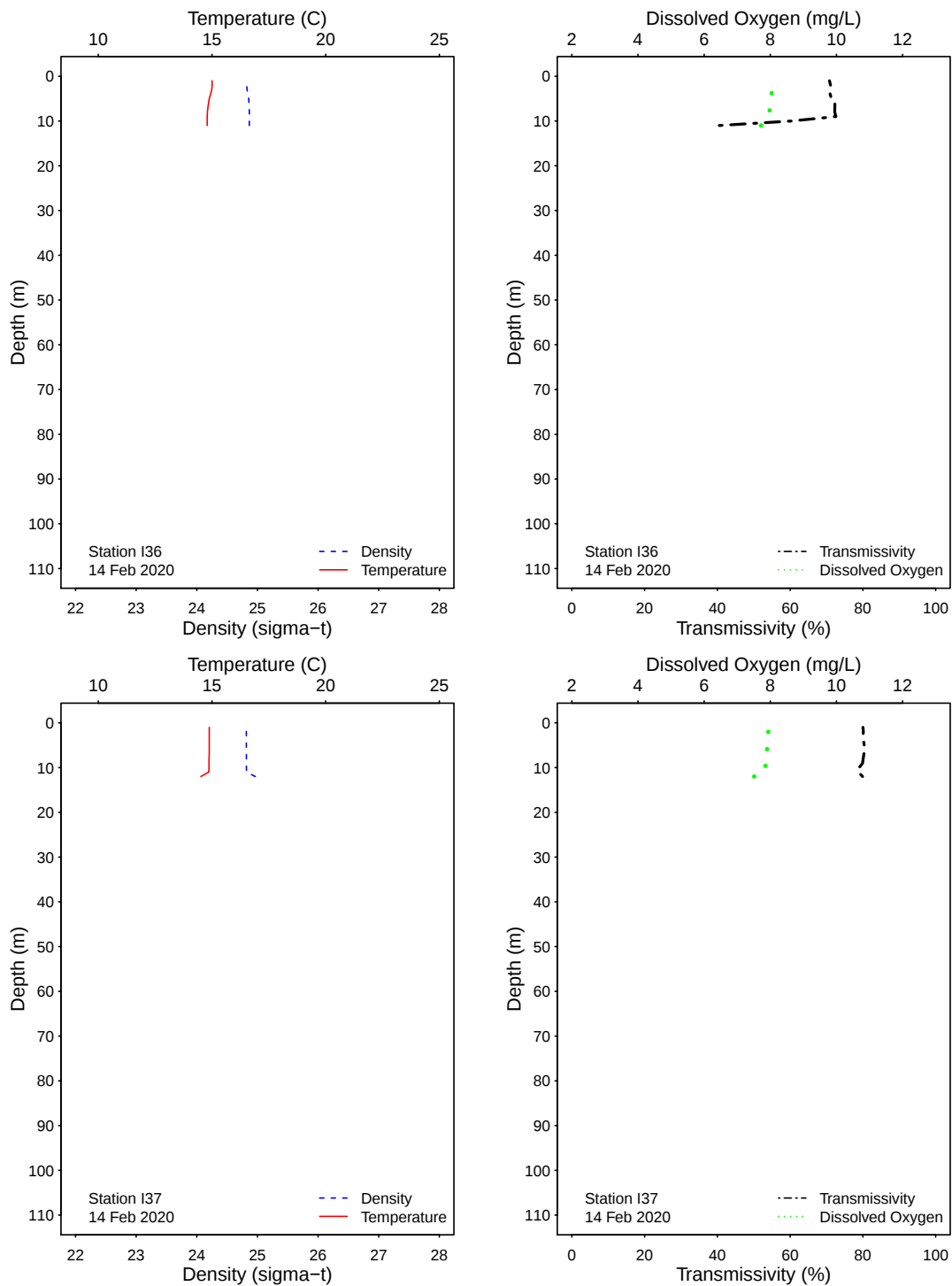


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

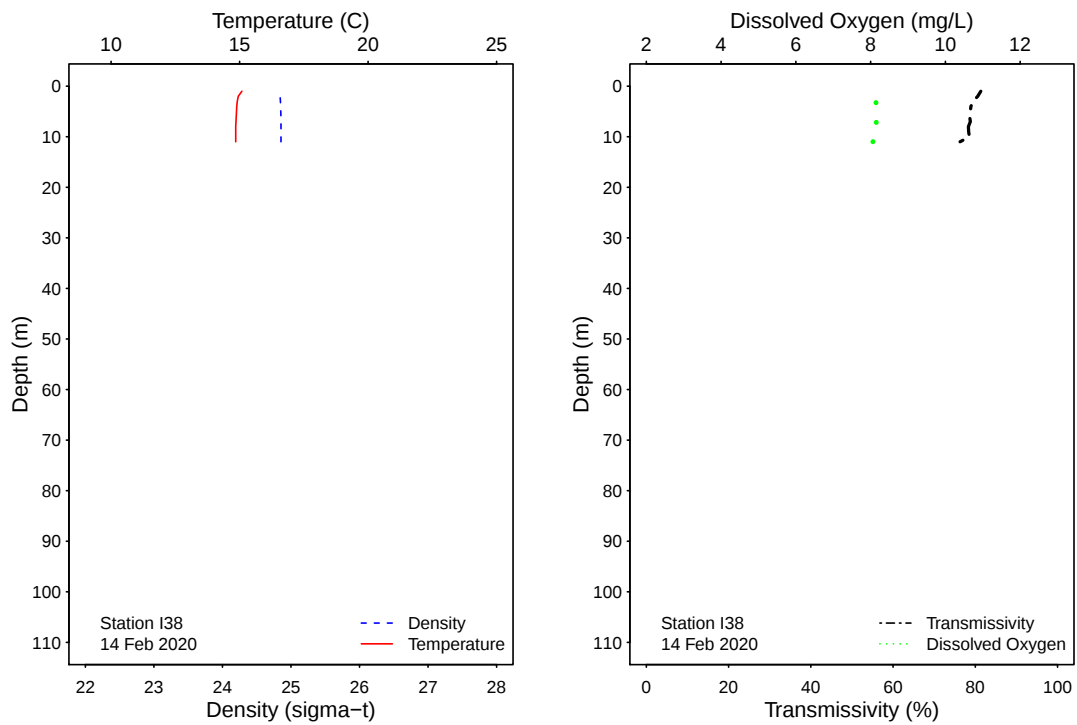


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

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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* (Entero) are reported as CFU/100 mL.

Station	Date	Depth	Analyst	Procedure	Total	Fecal	Entero
I3	12 Feb 2020	18	AE	LAB DUPLICATE	14e	<2	<2
I8	12 Feb 2020	37	JF	LAB DUPLICATE	10e	2e	<2
I9	12 Feb 2020	27	JF	LAB DUPLICATE	24e	<2	4e
I12	13 Feb 2020	18	MF	LAB DUPLICATE	12e	4e	2e
I13	13 Feb 2020	18	MF	LAB DUPLICATE	<2	<2	<2
I14	13 Feb 2020	2	MF	LAB DUPLICATE	<2	<2	<2
I16	13 Feb 2020	18	JF	LAB DUPLICATE	<2	<2	<2
I19	05 Feb 2020	6	AR	LAB DUPLICATE	3000e	1800e	720
I19	10 Feb 2020	6	BS	LAB DUPLICATE	100e	20e	14e
I19	18 Feb 2020	6	BS	LAB DUPLICATE	9200	1600e	580
I19	25 Feb 2020	6	JF	LAB DUPLICATE	420	220e	4e
I20	13 Feb 2020	55	BS	LAB DUPLICATE	<2	<2	<2
I30	14 Feb 2020	27	JF	LAB DUPLICATE	18e	<2	<2
I36	14 Feb 2020	11	AE	FIELD DUPLICATE	4e	6e	<2
I36	14 Feb 2020	11	JF	LAB DUPLICATE	2e	<2	<2
I40	05 Feb 2020	6	AR	LAB DUPLICATE	<20	<2	<2
I40	10 Feb 2020	6	BS	LAB DUPLICATE	400e	96	22e
I40	18 Feb 2020	6	BS	LAB DUPLICATE	3600e	900	400
I40	25 Feb 2020	6	JF	LAB DUPLICATE	4e	<2	<2
S12	04 Feb 2020		MF	FIELD DUPLICATE	2e	<2	<2
S12	04 Feb 2020		MF	LAB DUPLICATE	2e	<2	2e
S12	11 Feb 2020		BS	FIELD DUPLICATE	4e	<2	<2
S12	11 Feb 2020		BS	LAB DUPLICATE	8e	2e	4e
S12	18 Feb 2020		AR	FIELD DUPLICATE	20e	<2	<2
S12	18 Feb 2020		AR	LAB DUPLICATE	<2	4e	<2
S12	25 Feb 2020		AE	FIELD DUPLICATE	4e	2e	<2
S12	25 Feb 2020		AE	LAB DUPLICATE	20e	6e	<2

ns = not sampled

ND = no data

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