

SOUTH BAY OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

SOUTH BAY WATER RECLAMATION PLANT

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

FEBRUARY 2023

Environmental Monitoring and Technical Services
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March 31, 2023

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

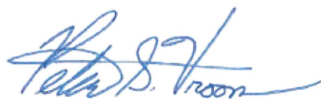
Dear Mr. Gibson:

Enclosed is the February 2023 Monthly Receiving Waters Monitoring Report for the South Bay Ocean Outfall, South Bay Water Reclamation Plant as required per Order No. R9-2021-0011, NPDES Permit No. CA0109045.

This report includes raw ocean monitoring data and summaries of water quality parameters and ocean conditions measured during the month for the South Bay outfall region. Also included are summaries of compliance with the bacterial water-contact standards specified in the California Ocean Plan. These data are also presented in the monthly report submitted by the International Boundary and Water Commission, U.S. Section for discharge from the South Bay International Wastewater Treatment Plant (Order No. R9-2021-0001, NPDES Permit No. CA0108928).

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

Sincerely,



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

PV/rk

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

INTRODUCTION

Monthly reports of water quality and ocean conditions from Playa Blanco, Mexico to Coronado, USA are submitted to the San Diego Regional Water Quality Control Board and U.S. EPA Region 9 in accordance with Order No. R9-2021-0011, NPDES Permit No. CA0109045, for the South Bay Water Reclamation Plant (SBWRP), South Bay Ocean Outfall (SBOO). This report includes receiving waters monitoring data collected from all shore, kelp and offshore stations specified in the above order. Data for influent and effluent monitoring activities for the SBWRP are presented in separate reports.

MATERIALS AND METHODS

Shore Stations

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

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

Kelp Bed Stations

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

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

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

to one reading per meter. Additionally, CTD profile data for each water sample depth are presented with the bacteriological data.

Offshore Stations

Quarterly offshore water quality sampling is typically conducted over three days during February, May, August, and November for a total of 40 stations during each month (see station locations map). These offshore stations (I1–I40) are arranged in a grid surrounding the discharge site, and are generally located along the 9, 19, 28, 38, and 55-m depth contours. The seven offshore sites designated as kelp bed stations (described above) are included as part of the monthly offshore water quality sampling, however the data from these seven stations are reported within the kelp bed station section of the report with the other four days of kelp bed water quality sampling. Monitoring at all sites included measurements of various physical/chemical parameters, including water temperature, salinity, density, dissolved oxygen, pH, chlorophyll *a*, transmissivity, and chromomorphous 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 water-contact standards specified in the 2019 California Ocean Plan (Ocean Plan). The six standards are defined as follows:

Water-Contact Objectives

Fecal coliform:

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

Enterococci:

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

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.

Shellfish Harvesting Standards

Total coliform:

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

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

Quality controls of bacteriological data include laboratory and field duplicate analyses. Laboratory duplicates are performed on approximately 10% of the water quality samples, while field duplicates are performed six times a month (see Appendix A). Laboratory duplicates represent two aliquots of the original sample that are split in the laboratory and analyzed by the same analyst using identical procedures within the same analytical run. The results of these analyses provide a measure of intra-analyst precision. In contrast, field duplicates represent two separate samples collected at the same time from the same site, which are handled under identical circumstances and treated exactly the same throughout field and lab procedures. The results of these analyses provide a measure of precision associated with sample collection, preservation, storage, and lab procedures. The sign test (see Gilbert, 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 2023 Quality Assurance Report, which will be completed in March 2024.

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, each of the eight shore stations located north of the border was out of compliance with the 2019 California Ocean Plan (Ocean Plan) water contact standards on one or more days as follows:
 - The 30-day running geometric mean standard for fecal coliforms was exceeded at stations S4, S5, S6, S8, S10, S11, and S12.
 - The single sample maximum (SSM) standard for fecal coliforms was exceeded at stations S4, S5, S6, S10, S11, and S12.
 - The 6-week running geometric mean standard for *Enterococcus* was exceeded at stations S4, S5, S6, S8, S9, S10, S11, and S12.

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

- The statistical threshold value (STV) standard for *Enterococcus* was exceeded at stations S4, S5, S6, S10, S11, and S12.
 - The 30-day running median standard for total coliforms was exceeded at stations S4, S5, S6, S8, S9, S10, S11, and S12.
 - The STV standard for total coliforms was exceeded at stations S4, S5, S6, S8, S10, S11, and S12.
- Nothing of sewage origin was observed at SBOO shore stations in 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 10, 13, 21, and 27.
- During February, each of the seven kelp bed stations was out of compliance with the various 2019 Ocean Plan water contact standards on one or more days as follows:
 - The 30-day running geometric mean standard for fecal coliforms was exceeded at stations I19, I24, I25, I26, I32, and I40.
 - The SSM standard for fecal coliforms was exceeded at stations I19, I24, I25, I26, I32, and I40.
 - The 6-week running geometric mean standard for *Enterococcus* was exceeded at stations I19, I24, I25, I26, I32, I39, and I40.
 - The STV standard for *Enterococcus* was exceeded at stations I19, I24, I25, I26, I32, and I40.
 - The 30-day running median standard for total coliforms was exceeded at stations I19, I24, I25, I26, I32, I39, and I40.
 - The STV standard for total coliforms was exceeded at stations I19, I24, I25, I26, I32, I39, and I40.
- Water column temperatures ranged from 11.93 to 13.94°C. The difference between surface and bottom waters ranged from 0.05 to 1.38°C.
- Concentrations of chlorophyll *a* ranged from 0.68 to 10.85 µg/L at the kelp bed stations.
- A sewage-like odor was reported at stations I24, I25, I26, and I39 on one or more days in February.

➤ **Offshore Water Quality Sampling**

- Quarterly offshore water quality sampling was conducted over three days during the month (i.e., February 7, 8, and 9).

- During February, seven of the offshore stations located within State jurisdictional waters (i.e., I12, I14, I16, I18, I22, I23, I33, I36–I38) were out of compliance with the various 2019 Ocean Plan water contact standards on one or more days as follows:
 - The STV standard for fecal coliforms was exceeded at stations I18 and I23.
 - The STV standard for *Enterococcus* was exceeded at station I18.
 - The STV standard for total coliforms was exceeded at stations I12, I14, I16, I18, I22, I23, and I33.
- Water column temperatures ranged from 11.22 to 14.35°C at the offshore sites. The difference between surface and bottom waters ranged from 1.43 to 2.8°C.
- Chlorophyll *a* concentrations ranged from 0.20 to 4.57 µg/L at the offshore sites.
- CDOM data are available upon request.
- Nothing of sewage origin was observed at any of the offshore stations in February.



TABLES AND FIGURES

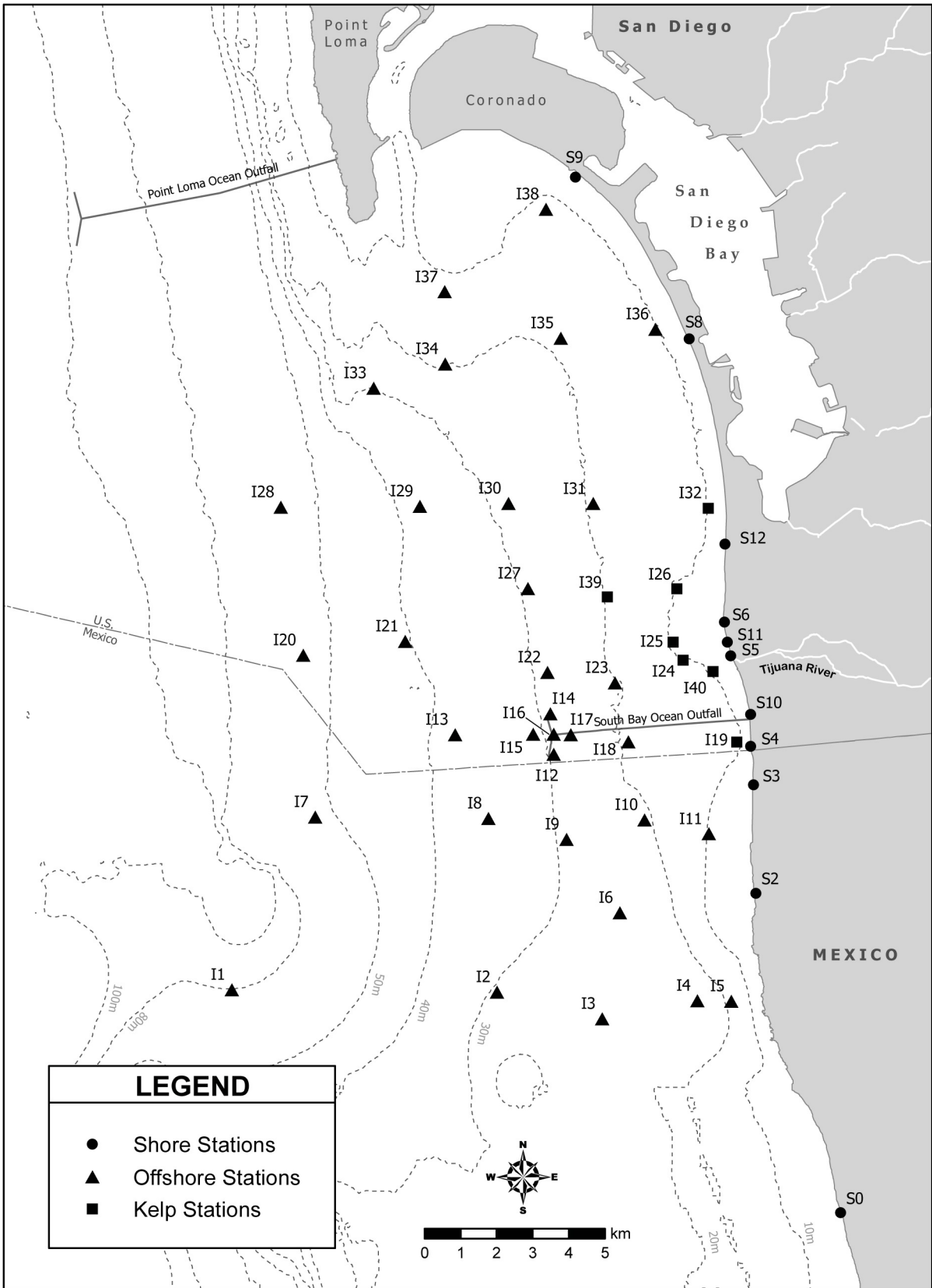


Figure 1.1 Station Map

Shore Stations

Table 2.1

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2023	1691	6861	2597	426	17	4290	2495	486
02 Feb 2023	1938	5966	1772	344	20	5490	1685	430
03 Feb 2023	1938	5966	1772	344	20	5490	1685	430
04 Feb 2023	1938	5966	1772	344	20	5490	1685	430
05 Feb 2023	1938	5966	1772	344	20	5490	1685	430
06 Feb 2023	1938	5966	1772	344	20	5490	1685	430
07 Feb 2023	1092	1500	524	123	13	2162	438	147
08 Feb 2023	1092	1500	524	123	13	2162	438	147
09 Feb 2023	1387	964	292	58	11	2152	241	59
10 Feb 2023	1387	964	292	58	11	2152	241	59
11 Feb 2023	1387	964	292	58	11	2152	241	59
12 Feb 2023	1387	964	292	58	11	2152	241	59
13 Feb 2023	1387	964	292	58	11	2152	241	59
14 Feb 2023	2135	1596	438	63	8	3035	414	87
15 Feb 2023	2135	1596	438	63	8	3035	414	87
16 Feb 2023	1387	964	255	25	2	2152	204	28
17 Feb 2023	1387	964	255	25	2	2152	204	28
18 Feb 2023	1387	964	255	25	2	2152	204	28
19 Feb 2023	1387	964	255	25	2	2152	204	28
20 Feb 2023	1387	964	255	25	2	2152	204	28
21 Feb 2023	1188	1007	252	15	2	2460	291	31
22 Feb 2023	1188	1007	252	15	2	2460	291	31
23 Feb 2023	697	1009	399	15	2	1799	567	51
24 Feb 2023	697	1009	399	15	2	1799	567	51
25 Feb 2023	697	1009	399	15	2	1799	567	51
26 Feb 2023	697	1009	399	15	2	1799	567	51
27 Feb 2023	697	1009	399	15	2	1799	567	51
28 Feb 2023	1232	1656	527	13	2	2630	1045	83

* Geometric mean calculated using n<5

Table 2.2

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
07 Feb 2023	IC	IC	IC	IC	IC	IC	IC	IC
14 Feb 2023	E	E	E	IC	IC	E	E	IC
21 Feb 2023	E	E	IC	IC	IC	E	E	IC
28 Feb 2023	E	E	E	IC	IC	E	E	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.3

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2023	606	1781	814	121	27	881	1146	278
02 Feb 2023	606	1781	814	121	27	881	1146	278
03 Feb 2023	606	1781	814	121	27	881	1146	278
04 Feb 2023	606	1781	814	121	27	881	1146	278
05 Feb 2023	606	1781	814	121	27	881	1146	278
06 Feb 2023	606	1781	814	121	27	881	1146	278
07 Feb 2023	569	1529	1194	121	33	1152	1438	326
08 Feb 2023	569	1529	1194	121	33	1152	1438	326
09 Feb 2023	569	1529	1194	121	33	1152	1438	326
10 Feb 2023	569	1529	1194	121	33	1152	1438	326
11 Feb 2023	569	1529	1194	121	33	1152	1438	326
12 Feb 2023	569	1529	1194	121	33	1152	1438	326
13 Feb 2023	569	1529	1194	121	33	1152	1438	326
14 Feb 2023	841	1529	886	59	24	1909	1226	292
15 Feb 2023	841	1529	886	59	24	1909	1226	292
16 Feb 2023	841	1529	886	59	24	1909	1226	292
17 Feb 2023	841	1529	886	59	24	1909	1226	292
18 Feb 2023	841	1529	886	59	24	1909	1226	292
19 Feb 2023	841	1529	886	59	24	1909	1226	292
20 Feb 2023	841	1529	886	59	24	1909	1226	292
21 Feb 2023	875	1279	549	24	18	1621	776	130
22 Feb 2023	875	1279	549	24	18	1621	776	130
23 Feb 2023	875	1279	549	24	18	1621	776	130
24 Feb 2023	875	1279	549	24	18	1621	776	130
25 Feb 2023	875	1279	549	24	18	1621	776	130
26 Feb 2023	875	1279	549	24	18	1621	776	130
27 Feb 2023	875	1279	549	24	18	1621	776	130
28 Feb 2023	596	1279	333	11	6	1621	566	77

* Geometric mean calculated using n<5

Table 2.4

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

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

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.5

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2023	13000	16000	16000	16000	140	16000	16000	15000
02 Feb 2023	10400	16000	16000	9600	170	16000	16000	9000
03 Feb 2023	10400	16000	16000	9600	170	16000	16000	9000
04 Feb 2023	10400	16000	16000	9600	170	16000	16000	9000
05 Feb 2023	10400	16000	16000	9600	170	16000	16000	9000
06 Feb 2023	10400	16000	16000	9600	170	16000	16000	9000
07 Feb 2023	4800	16000	16000	3200	140	16000	16000	2000
08 Feb 2023	4800	16000	16000	3200	140	16000	16000	2000
09 Feb 2023	9900	15000	8120	1690	160	16000	8120	1050
10 Feb 2023	9900	15000	8120	1690	160	16000	8120	1050
11 Feb 2023	9900	15000	8120	1690	160	16000	8120	1050
12 Feb 2023	9900	15000	8120	1690	160	16000	8120	1050
13 Feb 2023	9900	15000	8120	1690	160	16000	8120	1050
14 Feb 2023	16000	16000	9400	780	120	16000	16000	2000
15 Feb 2023	16000	16000	9400	780	120	16000	16000	2000
16 Feb 2023	9900	15000	4820	480	80	16000	8120	1050
17 Feb 2023	9900	15000	4820	480	80	16000	8120	1050
18 Feb 2023	9900	15000	4820	480	80	16000	8120	1050
19 Feb 2023	9900	15000	4820	480	80	16000	8120	1050
20 Feb 2023	9900	15000	4820	480	80	16000	8120	1050
21 Feb 2023	3800	14000	1500	180	40	16000	12000	300
22 Feb 2023	3800	14000	1500	180	40	16000	12000	300
23 Feb 2023	2800	11100	5450	400	30	15500	14000	1150
24 Feb 2023	2800	11100	5450	400	30	15500	14000	1150
25 Feb 2023	2800	11100	5450	400	30	15500	14000	1150
26 Feb 2023	2800	11100	5450	400	30	15500	14000	1150
27 Feb 2023	2800	11100	5450	400	30	15500	14000	1150
28 Feb 2023	3800	16000	9400	200	40	16000	16000	2000

* Median calculated using n<5

Table 2.6

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

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

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.7

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

Station	Date	Time	Total	Fecal	Entero
S0	07 Feb 2023	930	6200	720	640
S0	14 Feb 2023	845	>16000	5400	1000e
S0	21 Feb 2023	835	7400	3400e	460
S0	28 Feb 2023	1120	3200e	320e	320e
S2	07 Feb 2023	1035	12000	1200e	140e
S2	14 Feb 2023	940	>16000	>12000	>12000
S2	21 Feb 2023	935	>16000	6800	5600
S2	28 Feb 2023	1150	13000	420	140e
S3	07 Feb 2023	1010	CTNA	CTNA	CTNA
S3	14 Feb 2023	915	15000	2800e	660
S3	21 Feb 2023	910	5600	940	200e
S3	28 Feb 2023	1215	>16000	>12000	>12000
S4	07 Feb 2023	1045	1600	110	96
S4	14 Feb 2023	945	>16000	>12000	10000
S4	21 Feb 2023	1026	1800e	640	76
S4	28 Feb 2023	937	>16000	>12000	1200e
S5	07 Feb 2023	940	80e	6e	24e
S5	14 Feb 2023	908	>16000	>12000	>12000
S5	21 Feb 2023	926	6200	1200e	480
S5	28 Feb 2023	853	>16000	>12000	>12000
S6	07 Feb 2023	1008	20e	4e	100e
S6	14 Feb 2023	919	9400	2200e	700
S6	21 Feb 2023	954	1500	240e	68
S6	28 Feb 2023	906	>16000	1600e	600
S8	07 Feb 2023	851	<20	2e	<2
S8	14 Feb 2023	840	780	84	36e
S8	21 Feb 2023	834	<2	<2	<2
S8	28 Feb 2023	825	200e	8e	24e
S9	07 Feb 2023	837	40e	2e	14e
S9	14 Feb 2023	826	2e	<2	2e
S9	21 Feb 2023	819	<20	<2	<2
S9	28 Feb 2023	812	68	4e	<2
S10	07 Feb 2023	1040	1300	52	100e
S10	14 Feb 2023	951	>16000	>12000	>12000
S10	21 Feb 2023	1022	15000	4200	300e
S10	28 Feb 2023	943	>16000	>12000	>12000
S11	07 Feb 2023	956	240e	2e	78
S11	14 Feb 2023	914	>16000	3600e	2000e
S11	21 Feb 2023	944	12000	1200e	180e
S11	28 Feb 2023	901	>16000	>12000	1800e
S12	07 Feb 2023	907	80e	<2	52
S12	14 Feb 2023	854	>16000	400e	820
S12	21 Feb 2023	848	300e	42	8e

Station	Date	Time	Total	Fecal	Entero
S12	28 Feb 2023	839	12000	580	440

ns = not sampled

ND = no data

Table 2.8

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

Station	Date	Parameter	Value
S0	07 Feb 2023	Arrive Time	930
S0	07 Feb 2023	Weather	Sunny
S0	07 Feb 2023	Wind Speed (kts)	1.8
S0	07 Feb 2023	Wind Dir	NE
S0	07 Feb 2023	Animal Life	Bird-10; Dog-1;
S0	07 Feb 2023	Floatables	None
S0	07 Feb 2023	Water Color	Green
S0	07 Feb 2023	Current Direction	N
S0	07 Feb 2023	Water Temp (C)	12
S0	07 Feb 2023	Wave Height Low (ft)	3
S0	07 Feb 2023	High Tide (ft)	5.28
S0	07 Feb 2023	High Tide Time	924
S0	07 Feb 2023	Low Tide (ft)	1.48
S0	07 Feb 2023	Low Tide Time	329
S0	07 Feb 2023	Comments	Water clear; Surfer/Paddle boarder-4; Trash-0; Kelp; 0.5 L/sec water flowing from storm drain
S0	14 Feb 2023	Arrive Time	845
S0	14 Feb 2023	Weather	Cloudy
S0	14 Feb 2023	Wind Speed (kts)	7.2
S0	14 Feb 2023	Wind Dir	NW
S0	14 Feb 2023	Animal Life	
S0	14 Feb 2023	Floatables	None
S0	14 Feb 2023	Water Color	Green
S0	14 Feb 2023	Current Direction	N
S0	14 Feb 2023	Water Temp (C)	13
S0	14 Feb 2023	Wave Height Low (ft)	2
S0	14 Feb 2023	High Tide (ft)	4.57
S0	14 Feb 2023	High Tide Time	250
S0	14 Feb 2023	Low Tide (ft)	0.38
S0	14 Feb 2023	Low Tide Time	1115
S0	14 Feb 2023	Comments	Water turbid; Trash-0; Kelp; 2.0 L/sec water flowing from storm drain
S0	21 Feb 2023	Arrive Time	835
S0	21 Feb 2023	Weather	Sunny
S0	21 Feb 2023	Wind Speed (kts)	2.3
S0	21 Feb 2023	Wind Dir	NW
S0	21 Feb 2023	Animal Life	
S0	21 Feb 2023	Floatables	None
S0	21 Feb 2023	Water Color	Green
S0	21 Feb 2023	Current Direction	S
S0	21 Feb 2023	Water Temp (C)	13
S0	21 Feb 2023	Wave Height Low (ft)	2
S0	21 Feb 2023	High Tide (ft)	6.04
S0	21 Feb 2023	High Tide Time	924
S0	21 Feb 2023	Low Tide (ft)	0.5
S0	21 Feb 2023	Low Tide Time	324
S0	21 Feb 2023	Comments	Water turbid; Trash-0; 1.0 L/sec water flowing from storm drain
S0	28 Feb 2023	Arrive Time	1120
S0	28 Feb 2023	Weather	Cloudy
S0	28 Feb 2023	Wind Speed (kts)	3
S0	28 Feb 2023	Wind Dir	N
S0	28 Feb 2023	Animal Life	Bird-5;

Station	Date	Parameter	Value
S0	28 Feb 2023	Floatables	None
S0	28 Feb 2023	Water Color	Blue
S0	28 Feb 2023	Current Direction	N
S0	28 Feb 2023	Water Temp (C)	15
S0	28 Feb 2023	Wave Height Low (ft)	4
S0	28 Feb 2023	High Tide (ft)	4.2
S0	28 Feb 2023	High Tide Time	333
S0	28 Feb 2023	Low Tide (ft)	0.31
S0	28 Feb 2023	Low Tide Time	1158
S0	28 Feb 2023	Comments	Water clear; Trash-0; Person/Walker/Jogger-5; No flow from storm drain
S2	07 Feb 2023	Arrive Time	1035
S2	07 Feb 2023	Weather	Sunny
S2	07 Feb 2023	Wind Speed (kts)	1.6
S2	07 Feb 2023	Wind Dir	NE
S2	07 Feb 2023	Animal Life	Bird-10;
S2	07 Feb 2023	Floatables	None
S2	07 Feb 2023	Water Color	Green
S2	07 Feb 2023	Current Direction	N
S2	07 Feb 2023	Water Temp (C)	12
S2	07 Feb 2023	Wave Height Low (ft)	3
S2	07 Feb 2023	High Tide (ft)	5.28
S2	07 Feb 2023	High Tide Time	924
S2	07 Feb 2023	Low Tide (ft)	1.48
S2	07 Feb 2023	Low Tide Time	329
S2	07 Feb 2023	Comments	Water clear; Trash-0; Kelp; No flow from storm drain
S2	14 Feb 2023	Arrive Time	940
S2	14 Feb 2023	Weather	Cloudy
S2	14 Feb 2023	Wind Speed (kts)	10.9
S2	14 Feb 2023	Wind Dir	NW
S2	14 Feb 2023	Animal Life	
S2	14 Feb 2023	Floatables	None
S2	14 Feb 2023	Water Color	Green
S2	14 Feb 2023	Current Direction	N
S2	14 Feb 2023	Water Temp (C)	13
S2	14 Feb 2023	Wave Height Low (ft)	13
S2	14 Feb 2023	High Tide (ft)	4.57
S2	14 Feb 2023	High Tide Time	250
S2	14 Feb 2023	Low Tide (ft)	0.38
S2	14 Feb 2023	Low Tide Time	1115
S2	14 Feb 2023	Comments	Water turbid; Trash-0; Kelp; No flow from storm drain
S2	21 Feb 2023	Arrive Time	935
S2	21 Feb 2023	Weather	Sunny
S2	21 Feb 2023	Wind Speed (kts)	3.9
S2	21 Feb 2023	Wind Dir	SW
S2	21 Feb 2023	Animal Life	
S2	21 Feb 2023	Floatables	None
S2	21 Feb 2023	Water Color	Green
S2	21 Feb 2023	Current Direction	S
S2	21 Feb 2023	Water Temp (C)	13
S2	21 Feb 2023	Wave Height Low (ft)	3
S2	21 Feb 2023	High Tide (ft)	6.04
S2	21 Feb 2023	High Tide Time	924
S2	21 Feb 2023	Low Tide (ft)	0.5
S2	21 Feb 2023	Low Tide Time	324
S2	21 Feb 2023	Comments	Water turbid; Trash-0; No flow from storm drain
S2	28 Feb 2023	Arrive Time	1150

Station	Date	Parameter	Value
S2	28 Feb 2023	Weather	Cloudy
S2	28 Feb 2023	Wind Speed (kts)	4
S2	28 Feb 2023	Wind Dir	N
S2	28 Feb 2023	Animal Life	Seagull-5;
S2	28 Feb 2023	Floatables	None
S2	28 Feb 2023	Water Color	Blue
S2	28 Feb 2023	Current Direction	N
S2	28 Feb 2023	Water Temp (C)	14
S2	28 Feb 2023	Wave Height Low (ft)	5
S2	28 Feb 2023	High Tide (ft)	4.2
S2	28 Feb 2023	High Tide Time	333
S2	28 Feb 2023	Low Tide (ft)	0.31
S2	28 Feb 2023	Low Tide Time	1158
S2	28 Feb 2023	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-5; No flow from storm drain
S3	07 Feb 2023	Arrive Time	1010
S3	07 Feb 2023	Weather	Sunny
S3	07 Feb 2023	Wind Speed (kts)	1.7
S3	07 Feb 2023	Wind Dir	NE
S3	07 Feb 2023	Animal Life	Bird-10;
S3	07 Feb 2023	Floatables	None
S3	07 Feb 2023	Water Color	Green
S3	07 Feb 2023	Current Direction	N
S3	07 Feb 2023	Water Temp (C)	12
S3	07 Feb 2023	Wave Height Low (ft)	3
S3	07 Feb 2023	High Tide (ft)	5.28
S3	07 Feb 2023	High Tide Time	924
S3	07 Feb 2023	Low Tide (ft)	1.48
S3	07 Feb 2023	Low Tide Time	329
S3	07 Feb 2023	Comments	Water clear; Surfer/Paddle boarder-1; Trash-0; Kelp; Person/Walker/Jogger-1; No flow from storm drain
S3	14 Feb 2023	Arrive Time	915
S3	14 Feb 2023	Weather	Cloudy
S3	14 Feb 2023	Wind Speed (kts)	10.3
S3	14 Feb 2023	Wind Dir	NW
S3	14 Feb 2023	Animal Life	
S3	14 Feb 2023	Floatables	None
S3	14 Feb 2023	Water Color	Green
S3	14 Feb 2023	Current Direction	NE
S3	14 Feb 2023	Water Temp (C)	12
S3	14 Feb 2023	Wave Height Low (ft)	2
S3	14 Feb 2023	High Tide (ft)	4.57
S3	14 Feb 2023	High Tide Time	250
S3	14 Feb 2023	Low Tide (ft)	0.38
S3	14 Feb 2023	Low Tide Time	1115
S3	14 Feb 2023	Comments	Water turbid; Trash-0; Kelp; No flow from storm drain
S3	21 Feb 2023	Arrive Time	910
S3	21 Feb 2023	Weather	Sunny
S3	21 Feb 2023	Wind Speed (kts)	5.8
S3	21 Feb 2023	Wind Dir	SW
S3	21 Feb 2023	Animal Life	
S3	21 Feb 2023	Floatables	None
S3	21 Feb 2023	Water Color	Green
S3	21 Feb 2023	Current Direction	S
S3	21 Feb 2023	Water Temp (C)	13
S3	21 Feb 2023	Wave Height Low (ft)	3
S3	21 Feb 2023	High Tide (ft)	6.04
S3	21 Feb 2023	High Tide Time	924

Station	Date	Parameter	Value
S3	21 Feb 2023	Low Tide (ft)	0.5
S3	21 Feb 2023	Low Tide Time	324
S3	21 Feb 2023	Comments	Water turbid; Trash-0; No flow from storm drain
S3	28 Feb 2023	Arrive Time	15
S3	28 Feb 2023	Weather	Cloudy
S3	28 Feb 2023	Wind Speed (kts)	2
S3	28 Feb 2023	Wind Dir	N
S3	28 Feb 2023	Animal Life	Dog-5;
S3	28 Feb 2023	Floatables	None
S3	28 Feb 2023	Water Color	Blue
S3	28 Feb 2023	Current Direction	N
S3	28 Feb 2023	Water Temp (C)	13
S3	28 Feb 2023	Wave Height Low (ft)	6
S3	28 Feb 2023	High Tide (ft)	4.2
S3	28 Feb 2023	High Tide Time	333
S3	28 Feb 2023	Low Tide (ft)	0.31
S3	28 Feb 2023	Low Tide Time	1158
S3	28 Feb 2023	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-15; No flow from storm drain
S4	07 Feb 2023	Arrive Time	1045
S4	07 Feb 2023	Weather	Sunny
S4	07 Feb 2023	Wind Speed (kts)	3.5
S4	07 Feb 2023	Wind Dir	W
S4	07 Feb 2023	Animal Life	Bird-2;
S4	07 Feb 2023	Floatables	None
S4	07 Feb 2023	Water Color	Green
S4	07 Feb 2023	Current Direction	S
S4	07 Feb 2023	Water Temp (C)	13
S4	07 Feb 2023	Wave Height Low (ft)	5
S4	07 Feb 2023	High Tide (ft)	5.28
S4	07 Feb 2023	High Tide Time	924
S4	07 Feb 2023	Low Tide (ft)	1.48
S4	07 Feb 2023	Low Tide Time	329
S4	07 Feb 2023	Comments	Water clear; Trash-3; Kelp;Seagrass;Debris
S4	14 Feb 2023	Arrive Time	945
S4	14 Feb 2023	Weather	Cloudy
S4	14 Feb 2023	Wind Speed (kts)	15.3
S4	14 Feb 2023	Wind Dir	W
S4	14 Feb 2023	Animal Life	
S4	14 Feb 2023	Floatables	Foam
S4	14 Feb 2023	Water Color	Green
S4	14 Feb 2023	Current Direction	S
S4	14 Feb 2023	Water Temp (C)	8
S4	14 Feb 2023	Wave Height Low (ft)	6
S4	14 Feb 2023	High Tide (ft)	4.57
S4	14 Feb 2023	High Tide Time	250
S4	14 Feb 2023	Low Tide (ft)	0.38
S4	14 Feb 2023	Low Tide Time	1115
S4	14 Feb 2023	Comments	Water clear; Trash-1; Debris;Kelp
S4	21 Feb 2023	Arrive Time	1026
S4	21 Feb 2023	Weather	Hazy
S4	21 Feb 2023	Wind Speed (kts)	11.9
S4	21 Feb 2023	Wind Dir	SW
S4	21 Feb 2023	Animal Life	
S4	21 Feb 2023	Floatables	Foam
S4	21 Feb 2023	Water Color	Green
S4	21 Feb 2023	Current Direction	S

Station	Date	Parameter	Value
S4	21 Feb 2023	Water Temp (C)	9
S4	21 Feb 2023	Wave Height Low (ft)	4
S4	21 Feb 2023	High Tide (ft)	6.04
S4	21 Feb 2023	High Tide Time	924
S4	21 Feb 2023	Low Tide (ft)	0.5
S4	21 Feb 2023	Low Tide Time	324
S4	21 Feb 2023	Comments	Water clear; Trash-2; Kelp;Debris;Seagrass
S4	28 Feb 2023	Arrive Time	937
S4	28 Feb 2023	Weather	Drizzle
S4	28 Feb 2023	Wind Speed (kts)	7.3
S4	28 Feb 2023	Wind Dir	W
S4	28 Feb 2023	Animal Life	
S4	28 Feb 2023	Floatables	None
S4	28 Feb 2023	Water Color	Green
S4	28 Feb 2023	Current Direction	S
S4	28 Feb 2023	Water Temp (C)	8
S4	28 Feb 2023	Wave Height Low (ft)	4
S4	28 Feb 2023	High Tide (ft)	4.2
S4	28 Feb 2023	High Tide Time	333
S4	28 Feb 2023	Low Tide (ft)	0.31
S4	28 Feb 2023	Low Tide Time	1158
S4	28 Feb 2023	Comments	Water clear; Trash-2; Kelp;Debris
S5	07 Feb 2023	Arrive Time	940
S5	07 Feb 2023	Weather	Sunny
S5	07 Feb 2023	Wind Speed (kts)	2.3
S5	07 Feb 2023	Wind Dir	SE
S5	07 Feb 2023	Animal Life	
S5	07 Feb 2023	Floatables	None
S5	07 Feb 2023	Water Color	Green
S5	07 Feb 2023	Current Direction	S
S5	07 Feb 2023	Water Temp (C)	13
S5	07 Feb 2023	Wave Height Low (ft)	3
S5	07 Feb 2023	High Tide (ft)	5.28
S5	07 Feb 2023	High Tide Time	924
S5	07 Feb 2023	Low Tide (ft)	1.48
S5	07 Feb 2023	Low Tide Time	329
S5	07 Feb 2023	Comments	Water turbid; Trash-3; Debris;Kelp;Seagrass
S5	14 Feb 2023	Arrive Time	908
S5	14 Feb 2023	Weather	Cloudy
S5	14 Feb 2023	Wind Speed (kts)	12.6
S5	14 Feb 2023	Wind Dir	W
S5	14 Feb 2023	Animal Life	Bird-2;
S5	14 Feb 2023	Floatables	Foam
S5	14 Feb 2023	Water Color	Green
S5	14 Feb 2023	Current Direction	S
S5	14 Feb 2023	Water Temp (C)	9
S5	14 Feb 2023	Wave Height Low (ft)	4
S5	14 Feb 2023	High Tide (ft)	4.57
S5	14 Feb 2023	High Tide Time	250
S5	14 Feb 2023	Low Tide (ft)	0.38
S5	14 Feb 2023	Low Tide Time	1115
S5	14 Feb 2023	Comments	Water turbid; Trash-2; Seagrass
S5	21 Feb 2023	Arrive Time	926
S5	21 Feb 2023	Weather	Partly cloudy
S5	21 Feb 2023	Wind Speed (kts)	6.5
S5	21 Feb 2023	Wind Dir	SW
S5	21 Feb 2023	Animal Life	Bird-4;

Station	Date	Parameter	Value
S5	21 Feb 2023	Floatables	None
S5	21 Feb 2023	Water Color	Green
S5	21 Feb 2023	Current Direction	S
S5	21 Feb 2023	Water Temp (C)	11
S5	21 Feb 2023	Wave Height Low (ft)	3
S5	21 Feb 2023	High Tide (ft)	6.04
S5	21 Feb 2023	High Tide Time	924
S5	21 Feb 2023	Low Tide (ft)	0.5
S5	21 Feb 2023	Low Tide Time	324
S5	21 Feb 2023	Comments	Water clear; Trash-3; Kelp;Seagrass;Debris
S5	28 Feb 2023	Arrive Time	853
S5	28 Feb 2023	Weather	Moderate rain
S5	28 Feb 2023	Wind Speed (kts)	5.9
S5	28 Feb 2023	Wind Dir	W
S5	28 Feb 2023	Animal Life	Bird-2;
S5	28 Feb 2023	Floatables	Foam
S5	28 Feb 2023	Water Color	Brown
S5	28 Feb 2023	Current Direction	S
S5	28 Feb 2023	Water Temp (C)	10
S5	28 Feb 2023	Wave Height Low (ft)	4
S5	28 Feb 2023	High Tide (ft)	4.2
S5	28 Feb 2023	High Tide Time	333
S5	28 Feb 2023	Low Tide (ft)	0.31
S5	28 Feb 2023	Low Tide Time	1158
S5	28 Feb 2023	Comments	Water turbid; Trash-3; Kelp;Seagrass
S6	07 Feb 2023	Arrive Time	1008
S6	07 Feb 2023	Weather	Sunny
S6	07 Feb 2023	Wind Speed (kts)	3.1
S6	07 Feb 2023	Wind Dir	SE
S6	07 Feb 2023	Animal Life	
S6	07 Feb 2023	Floatables	None
S6	07 Feb 2023	Water Color	Green
S6	07 Feb 2023	Current Direction	S
S6	07 Feb 2023	Water Temp (C)	11
S6	07 Feb 2023	Wave Height Low (ft)	7
S6	07 Feb 2023	High Tide (ft)	5.28
S6	07 Feb 2023	High Tide Time	924
S6	07 Feb 2023	Low Tide (ft)	1.48
S6	07 Feb 2023	Low Tide Time	329
S6	07 Feb 2023	Comments	Water turbid; Surfer/Paddle boarder-2; Trash-1; Kelp;Seagrass
S6	14 Feb 2023	Arrive Time	919
S6	14 Feb 2023	Weather	Cloudy
S6	14 Feb 2023	Wind Speed (kts)	9.3
S6	14 Feb 2023	Wind Dir	W
S6	14 Feb 2023	Animal Life	Bird-1;
S6	14 Feb 2023	Floatables	None
S6	14 Feb 2023	Water Color	Green
S6	14 Feb 2023	Current Direction	S
S6	14 Feb 2023	Water Temp (C)	8
S6	14 Feb 2023	Wave Height Low (ft)	6
S6	14 Feb 2023	High Tide (ft)	4.57
S6	14 Feb 2023	High Tide Time	250
S6	14 Feb 2023	Low Tide (ft)	0.38
S6	14 Feb 2023	Low Tide Time	1115
S6	14 Feb 2023	Comments	Water clear; Trash-2; Kelp;Seagrass;Algae
S6	21 Feb 2023	Arrive Time	954

Station	Date	Parameter	Value
S6	21 Feb 2023	Weather	Hazy
S6	21 Feb 2023	Wind Speed (kts)	6.3
S6	21 Feb 2023	Wind Dir	SW
S6	21 Feb 2023	Animal Life	
S6	21 Feb 2023	Floatables	Foam
S6	21 Feb 2023	Water Color	Green
S6	21 Feb 2023	Current Direction	S
S6	21 Feb 2023	Water Temp (C)	11
S6	21 Feb 2023	Wave Height Low (ft)	4
S6	21 Feb 2023	High Tide (ft)	6.04
S6	21 Feb 2023	High Tide Time	924
S6	21 Feb 2023	Low Tide (ft)	0.5
S6	21 Feb 2023	Low Tide Time	324
S6	21 Feb 2023	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S6	28 Feb 2023	Arrive Time	906
S6	28 Feb 2023	Weather	Drizzle
S6	28 Feb 2023	Wind Speed (kts)	3.9
S6	28 Feb 2023	Wind Dir	W
S6	28 Feb 2023	Animal Life	
S6	28 Feb 2023	Floatables	None
S6	28 Feb 2023	Water Color	Green
S6	28 Feb 2023	Current Direction	S
S6	28 Feb 2023	Water Temp (C)	9
S6	28 Feb 2023	Wave Height Low (ft)	5
S6	28 Feb 2023	High Tide (ft)	4.2
S6	28 Feb 2023	High Tide Time	333
S6	28 Feb 2023	Low Tide (ft)	0.31
S6	28 Feb 2023	Low Tide Time	1158
S6	28 Feb 2023	Comments	Water turbid; Trash-1; Algae;Kelp
S8	07 Feb 2023	Arrive Time	851
S8	07 Feb 2023	Weather	Sunny
S8	07 Feb 2023	Wind Speed (kts)	1.7
S8	07 Feb 2023	Wind Dir	E
S8	07 Feb 2023	Animal Life	
S8	07 Feb 2023	Floatables	None
S8	07 Feb 2023	Water Color	Green
S8	07 Feb 2023	Current Direction	S
S8	07 Feb 2023	Water Temp (C)	14
S8	07 Feb 2023	Wave Height Low (ft)	3
S8	07 Feb 2023	High Tide (ft)	5.28
S8	07 Feb 2023	High Tide Time	924
S8	07 Feb 2023	Low Tide (ft)	1.48
S8	07 Feb 2023	Low Tide Time	329
S8	07 Feb 2023	Comments	Water clear; Trash-2; Kelp;Debris; Person/Walker/Jogger-1
S8	14 Feb 2023	Arrive Time	840
S8	14 Feb 2023	Weather	Drizzle
S8	14 Feb 2023	Wind Speed (kts)	12.2
S8	14 Feb 2023	Wind Dir	W
S8	14 Feb 2023	Animal Life	
S8	14 Feb 2023	Floatables	Plastic bag
S8	14 Feb 2023	Water Color	Green
S8	14 Feb 2023	Current Direction	S
S8	14 Feb 2023	Water Temp (C)	5
S8	14 Feb 2023	Wave Height Low (ft)	5
S8	14 Feb 2023	High Tide (ft)	4.57
S8	14 Feb 2023	High Tide Time	250
S8	14 Feb 2023	Low Tide (ft)	0.38
S8	14 Feb 2023	Low Tide Time	1115

Station	Date	Parameter	Value
S8	14 Feb 2023	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S8	21 Feb 2023	Arrive Time	834
S8	21 Feb 2023	Weather	Overcast
S8	21 Feb 2023	Wind Speed (kts)	2.3
S8	21 Feb 2023	Wind Dir	E
S8	21 Feb 2023	Animal Life	Bird-1;
S8	21 Feb 2023	Floatables	None
S8	21 Feb 2023	Water Color	Green
S8	21 Feb 2023	Current Direction	S
S8	21 Feb 2023	Water Temp (C)	9
S8	21 Feb 2023	Wave Height Low (ft)	3
S8	21 Feb 2023	High Tide (ft)	6.04
S8	21 Feb 2023	High Tide Time	924
S8	21 Feb 2023	Low Tide (ft)	0.5
S8	21 Feb 2023	Low Tide Time	324
S8	21 Feb 2023	Comments	Water clear; Trash-1; Debris;Kelp;Seagrass; Person/Walker/Jogger-2
S8	28 Feb 2023	Arrive Time	825
S8	28 Feb 2023	Weather	Partly cloudy
S8	28 Feb 2023	Wind Speed (kts)	8.9
S8	28 Feb 2023	Wind Dir	W
S8	28 Feb 2023	Animal Life	
S8	28 Feb 2023	Floatables	None
S8	28 Feb 2023	Water Color	Green
S8	28 Feb 2023	Current Direction	S
S8	28 Feb 2023	Water Temp (C)	7
S8	28 Feb 2023	Wave Height Low (ft)	4
S8	28 Feb 2023	High Tide (ft)	4.2
S8	28 Feb 2023	High Tide Time	333
S8	28 Feb 2023	Low Tide (ft)	0.31
S8	28 Feb 2023	Low Tide Time	1158
S8	28 Feb 2023	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris; Person/Walker/Jogger-2
S9	07 Feb 2023	Arrive Time	837
S9	07 Feb 2023	Weather	Sunny
S9	07 Feb 2023	Wind Speed (kts)	1
S9	07 Feb 2023	Wind Dir	W
S9	07 Feb 2023	Animal Life	
S9	07 Feb 2023	Floatables	None
S9	07 Feb 2023	Water Color	Green
S9	07 Feb 2023	Current Direction	S
S9	07 Feb 2023	Water Temp (C)	11
S9	07 Feb 2023	Wave Height Low (ft)	3
S9	07 Feb 2023	High Tide (ft)	5.28
S9	07 Feb 2023	High Tide Time	924
S9	07 Feb 2023	Low Tide (ft)	1.48
S9	07 Feb 2023	Low Tide Time	329
S9	07 Feb 2023	Comments	Water clear; Trash-1; Algae; Person/Walker/Jogger-4
S9	14 Feb 2023	Arrive Time	826
S9	14 Feb 2023	Weather	Cloudy
S9	14 Feb 2023	Wind Speed (kts)	10.8
S9	14 Feb 2023	Wind Dir	W
S9	14 Feb 2023	Animal Life	Bird-1;
S9	14 Feb 2023	Floatables	None
S9	14 Feb 2023	Water Color	Green
S9	14 Feb 2023	Current Direction	S
S9	14 Feb 2023	Water Temp (C)	7

Station	Date	Parameter	Value
S9	14 Feb 2023	Wave Height Low (ft)	5
S9	14 Feb 2023	High Tide (ft)	4.57
S9	14 Feb 2023	High Tide Time	250
S9	14 Feb 2023	Low Tide (ft)	0.38
S9	14 Feb 2023	Low Tide Time	1115
S9	14 Feb 2023	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae; Person/Walker/Jogger-2
S9	21 Feb 2023	Arrive Time	819
S9	21 Feb 2023	Weather	Overcast
S9	21 Feb 2023	Wind Speed (kts)	1.1
S9	21 Feb 2023	Wind Dir	E
S9	21 Feb 2023	Animal Life	
S9	21 Feb 2023	Floatables	None
S9	21 Feb 2023	Water Color	Green
S9	21 Feb 2023	Current Direction	S
S9	21 Feb 2023	Water Temp (C)	9
S9	21 Feb 2023	Wave Height Low (ft)	3
S9	21 Feb 2023	High Tide (ft)	6.04
S9	21 Feb 2023	High Tide Time	924
S9	21 Feb 2023	Low Tide (ft)	0.5
S9	21 Feb 2023	Low Tide Time	324
S9	21 Feb 2023	Comments	Water clear; Trash-1; Seagrass; Person/Walker/Jogger-1
S9	28 Feb 2023	Arrive Time	812
S9	28 Feb 2023	Weather	Drizzle
S9	28 Feb 2023	Wind Speed (kts)	6.9
S9	28 Feb 2023	Wind Dir	W
S9	28 Feb 2023	Animal Life	Bird-1;
S9	28 Feb 2023	Floatables	None
S9	28 Feb 2023	Water Color	Green
S9	28 Feb 2023	Current Direction	S
S9	28 Feb 2023	Water Temp (C)	8
S9	28 Feb 2023	Wave Height Low (ft)	4
S9	28 Feb 2023	High Tide (ft)	4.2
S9	28 Feb 2023	High Tide Time	333
S9	28 Feb 2023	Low Tide (ft)	0.31
S9	28 Feb 2023	Low Tide Time	1158
S9	28 Feb 2023	Comments	Water clear; Trash-2; Algae;Seagrass;Kelp;Debris
S10	07 Feb 2023	Arrive Time	1040
S10	07 Feb 2023	Weather	Sunny
S10	07 Feb 2023	Wind Speed (kts)	3.1
S10	07 Feb 2023	Wind Dir	W
S10	07 Feb 2023	Animal Life	
S10	07 Feb 2023	Floatables	None
S10	07 Feb 2023	Water Color	Green
S10	07 Feb 2023	Current Direction	S
S10	07 Feb 2023	Water Temp (C)	14
S10	07 Feb 2023	Wave Height Low (ft)	5
S10	07 Feb 2023	High Tide (ft)	5.28
S10	07 Feb 2023	High Tide Time	924
S10	07 Feb 2023	Low Tide (ft)	1.48
S10	07 Feb 2023	Low Tide Time	329
S10	07 Feb 2023	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S10	14 Feb 2023	Arrive Time	951
S10	14 Feb 2023	Weather	Cloudy
S10	14 Feb 2023	Wind Speed (kts)	14.7
S10	14 Feb 2023	Wind Dir	W
S10	14 Feb 2023	Animal Life	

Station	Date	Parameter	Value
S10	14 Feb 2023	Floatables	Foam
S10	14 Feb 2023	Water Color	Green
S10	14 Feb 2023	Current Direction	S
S10	14 Feb 2023	Water Temp (C)	7
S10	14 Feb 2023	Wave Height Low (ft)	6
S10	14 Feb 2023	High Tide (ft)	4.57
S10	14 Feb 2023	High Tide Time	250
S10	14 Feb 2023	Low Tide (ft)	0.38
S10	14 Feb 2023	Low Tide Time	1115
S10	14 Feb 2023	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S10	21 Feb 2023	Arrive Time	1022
S10	21 Feb 2023	Weather	Hazy
S10	21 Feb 2023	Wind Speed (kts)	9.2
S10	21 Feb 2023	Wind Dir	SW
S10	21 Feb 2023	Animal Life	
S10	21 Feb 2023	Floatables	None
S10	21 Feb 2023	Water Color	Green
S10	21 Feb 2023	Current Direction	S
S10	21 Feb 2023	Water Temp (C)	10
S10	21 Feb 2023	Wave Height Low (ft)	5
S10	21 Feb 2023	High Tide (ft)	6.04
S10	21 Feb 2023	High Tide Time	924
S10	21 Feb 2023	Low Tide (ft)	0.5
S10	21 Feb 2023	Low Tide Time	324
S10	21 Feb 2023	Comments	Water clear; Trash-2; Kelp;Debris
S10	28 Feb 2023	Arrive Time	943
S10	28 Feb 2023	Weather	Cloudy
S10	28 Feb 2023	Wind Speed (kts)	5.5
S10	28 Feb 2023	Wind Dir	W
S10	28 Feb 2023	Animal Life	Bird-3;
S10	28 Feb 2023	Floatables	None
S10	28 Feb 2023	Water Color	Brown
S10	28 Feb 2023	Current Direction	S
S10	28 Feb 2023	Water Temp (C)	8
S10	28 Feb 2023	Wave Height Low (ft)	5
S10	28 Feb 2023	High Tide (ft)	4.2
S10	28 Feb 2023	High Tide Time	333
S10	28 Feb 2023	Low Tide (ft)	0.31
S10	28 Feb 2023	Low Tide Time	1158
S10	28 Feb 2023	Comments	Water turbid; Trash-3; Kelp;Debris
S11	07 Feb 2023	Arrive Time	956
S11	07 Feb 2023	Weather	Sunny
S11	07 Feb 2023	Wind Speed (kts)	4
S11	07 Feb 2023	Wind Dir	SE
S11	07 Feb 2023	Animal Life	Bird-3; Dog-1;
S11	07 Feb 2023	Floatables	None
S11	07 Feb 2023	Water Color	Green
S11	07 Feb 2023	Current Direction	S
S11	07 Feb 2023	Water Temp (C)	13
S11	07 Feb 2023	Wave Height Low (ft)	6
S11	07 Feb 2023	High Tide (ft)	5.28
S11	07 Feb 2023	High Tide Time	924
S11	07 Feb 2023	Low Tide (ft)	1.48
S11	07 Feb 2023	Low Tide Time	329
S11	07 Feb 2023	Comments	Water turbid; Trash-2; Kelp;Seagrass;Debris; Person/Walker/Jogger-1
S11	14 Feb 2023	Arrive Time	914

Station	Date	Parameter	Value
S11	14 Feb 2023	Weather	Cloudy
S11	14 Feb 2023	Wind Speed (kts)	9.3
S11	14 Feb 2023	Wind Dir	W
S11	14 Feb 2023	Animal Life	
S11	14 Feb 2023	Floatables	None
S11	14 Feb 2023	Water Color	Green
S11	14 Feb 2023	Current Direction	S
S11	14 Feb 2023	Water Temp (C)	8
S11	14 Feb 2023	Wave Height Low (ft)	6
S11	14 Feb 2023	High Tide (ft)	4.57
S11	14 Feb 2023	High Tide Time	250
S11	14 Feb 2023	Low Tide (ft)	0.38
S11	14 Feb 2023	Low Tide Time	1115
S11	14 Feb 2023	Comments	Water clear; Trash-1; Seagrass;Kelp;Debris; Dead Sea lion on the sand about 20 feet from the point sampled
S11	21 Feb 2023	Arrive Time	944
S11	21 Feb 2023	Weather	Partly cloudy
S11	21 Feb 2023	Wind Speed (kts)	6.3
S11	21 Feb 2023	Wind Dir	S
S11	21 Feb 2023	Animal Life	
S11	21 Feb 2023	Floatables	None
S11	21 Feb 2023	Water Color	Green
S11	21 Feb 2023	Current Direction	S
S11	21 Feb 2023	Water Temp (C)	12
S11	21 Feb 2023	Wave Height Low (ft)	4
S11	21 Feb 2023	High Tide (ft)	6.04
S11	21 Feb 2023	High Tide Time	924
S11	21 Feb 2023	Low Tide (ft)	0.5
S11	21 Feb 2023	Low Tide Time	324
S11	21 Feb 2023	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S11	28 Feb 2023	Arrive Time	901
S11	28 Feb 2023	Weather	Drizzle
S11	28 Feb 2023	Wind Speed (kts)	5.9
S11	28 Feb 2023	Wind Dir	W
S11	28 Feb 2023	Animal Life	
S11	28 Feb 2023	Floatables	None
S11	28 Feb 2023	Water Color	Green
S11	28 Feb 2023	Current Direction	S
S11	28 Feb 2023	Water Temp (C)	10
S11	28 Feb 2023	Wave Height Low (ft)	5
S11	28 Feb 2023	High Tide (ft)	4.2
S11	28 Feb 2023	High Tide Time	333
S11	28 Feb 2023	Low Tide (ft)	0.31
S11	28 Feb 2023	Low Tide Time	1158
S11	28 Feb 2023	Comments	Water turbid; Trash-3; Kelp;Seagrass;Debris
S12	07 Feb 2023	Arrive Time	907
S12	07 Feb 2023	Weather	Sunny
S12	07 Feb 2023	Wind Speed (kts)	1.2
S12	07 Feb 2023	Wind Dir	E
S12	07 Feb 2023	Animal Life	
S12	07 Feb 2023	Floatables	None
S12	07 Feb 2023	Water Color	Green
S12	07 Feb 2023	Current Direction	S
S12	07 Feb 2023	Water Temp (C)	11
S12	07 Feb 2023	Wave Height Low (ft)	5
S12	07 Feb 2023	High Tide (ft)	5.28
S12	07 Feb 2023	High Tide Time	924
S12	07 Feb 2023	Low Tide (ft)	1.48

Station	Date	Parameter	Value
S12	07 Feb 2023	Low Tide Time	329
S12	07 Feb 2023	Comments	Water clear; Trash-3; Seagrass;Kelp;Debris
S12	14 Feb 2023	Arrive Time	854
S12	14 Feb 2023	Weather	Drizzle
S12	14 Feb 2023	Wind Speed (kts)	12.4
S12	14 Feb 2023	Wind Dir	SW
S12	14 Feb 2023	Animal Life	
S12	14 Feb 2023	Floatables	None
S12	14 Feb 2023	Water Color	Green
S12	14 Feb 2023	Current Direction	S
S12	14 Feb 2023	Water Temp (C)	7
S12	14 Feb 2023	Wave Height Low (ft)	5
S12	14 Feb 2023	High Tide (ft)	4.57
S12	14 Feb 2023	High Tide Time	250
S12	14 Feb 2023	Low Tide (ft)	0.38
S12	14 Feb 2023	Low Tide Time	1115
S12	14 Feb 2023	Comments	Water clear; Trash-1; Kelp
S12	21 Feb 2023	Arrive Time	848
S12	21 Feb 2023	Weather	Partly cloudy
S12	21 Feb 2023	Wind Speed (kts)	0
S12	21 Feb 2023	Wind Dir	
S12	21 Feb 2023	Animal Life	Bird-20; Dog-2;
S12	21 Feb 2023	Floatables	None
S12	21 Feb 2023	Water Color	Green
S12	21 Feb 2023	Current Direction	S
S12	21 Feb 2023	Water Temp (C)	10
S12	21 Feb 2023	Wave Height Low (ft)	3
S12	21 Feb 2023	High Tide (ft)	6.04
S12	21 Feb 2023	High Tide Time	924
S12	21 Feb 2023	Low Tide (ft)	0.5
S12	21 Feb 2023	Low Tide Time	324
S12	21 Feb 2023	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-2
S12	28 Feb 2023	Arrive Time	839
S12	28 Feb 2023	Weather	Cloudy
S12	28 Feb 2023	Wind Speed (kts)	3.8
S12	28 Feb 2023	Wind Dir	W
S12	28 Feb 2023	Animal Life	Bird-75;
S12	28 Feb 2023	Floatables	None
S12	28 Feb 2023	Water Color	Green
S12	28 Feb 2023	Current Direction	S
S12	28 Feb 2023	Water Temp (C)	9
S12	28 Feb 2023	Wave Height Low (ft)	4
S12	28 Feb 2023	High Tide (ft)	4.2
S12	28 Feb 2023	High Tide Time	333
S12	28 Feb 2023	Low Tide (ft)	0.31
S12	28 Feb 2023	Low Tide Time	1158
S12	28 Feb 2023	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris; Person/Walker/Jogger-2

Kelp Stations

Table 3.1

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

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2023	1399	697	522	267	222	37	1443
02 Feb 2023	1399	697	522	267	222	37	1443
03 Feb 2023	1514	1027	819	154	125	55	1079
04 Feb 2023	1514	1027	819	154	125	55	1079
05 Feb 2023	1514	1027	819	154	125	55	1079
06 Feb 2023	1514	1027	819	154	125	55	1079
07 Feb 2023	1514	1027	819	154	125	55	1079
08 Feb 2023	1514	1027	819	154	125	55	1079
09 Feb 2023	1514	1027	819	154	125	55	1079
10 Feb 2023	1310	1243	1217	79	55	48	1600
11 Feb 2023	870	1838	1839	84	41	46	2845
12 Feb 2023	870	1838	1839	84	41	46	2845
13 Feb 2023	1438	2170	2167	138	89	44	3109
14 Feb 2023	1438	2170	2167	138	89	44	3109
15 Feb 2023	1438	2170	2167	138	89	44	3109
16 Feb 2023	1438	2170	2167	138	89	44	3109
17 Feb 2023	1248	2243	2828	103	67	21	2925
18 Feb 2023	1248	2243	2828	103	67	21	2925
19 Feb 2023	1248	2243	2828	103	67	21	2925
20 Feb 2023	1248	2243	2828	103	67	21	2925
21 Feb 2023	707	701	1275	106	86	25	1231
22 Feb 2023	707	701	1275	106	86	25	1231
23 Feb 2023	604	598	1309	178	115	39	1716
24 Feb 2023	604	598	1309	178	115	39	1716
25 Feb 2023	604	598	1309	178	115	39	1716
26 Feb 2023	604	598	1309	178	115	39	1716
27 Feb 2023	692	569	815	124	146	26	1326
28 Feb 2023	692	569	815	124	146	26	1326

* Geometric mean calculated using n<5

Table 3.2

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

Date	I19	I24	I25	I26	I32	I39	I40
10 Feb 2023	E	E	E	IC	IC	IC	E
13 Feb 2023	E	E	E	E	E	IC	E
21 Feb 2023	IC	IC	IC	IC	IC	IC	IC
27 Feb 2023	E	E	IC	IC	E	IC	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.3

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

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2023	1076	323	271	161	99	31	752
02 Feb 2023	1076	323	271	161	99	31	752
03 Feb 2023	1076	323	271	161	99	31	752
04 Feb 2023	1076	323	271	161	99	31	752
05 Feb 2023	1076	323	271	161	99	31	752
06 Feb 2023	1076	323	271	161	99	31	752
07 Feb 2023	862	515	462	270	164	48	1624
08 Feb 2023	862	515	462	270	164	48	1624
09 Feb 2023	862	515	462	270	164	48	1624
10 Feb 2023	598	521	512	125	100	40	1662
11 Feb 2023	598	521	512	125	100	40	1662
12 Feb 2023	598	521	512	125	100	40	1662
13 Feb 2023	777	681	637	124	123	36	1899
14 Feb 2023	777	681	637	124	123	36	1899
15 Feb 2023	778	799	785	89	97	47	1818
16 Feb 2023	778	799	785	89	97	47	1818
17 Feb 2023	778	799	785	89	97	47	1818
18 Feb 2023	778	799	785	89	97	47	1818
19 Feb 2023	778	799	785	89	97	47	1818
20 Feb 2023	778	799	785	89	97	47	1818
21 Feb 2023	425	428	425	70	79	37	901
22 Feb 2023	425	428	425	70	79	37	901
23 Feb 2023	361	525	513	70	82	42	1356
24 Feb 2023	361	525	513	70	82	42	1356
25 Feb 2023	361	525	513	70	82	42	1356
26 Feb 2023	361	525	513	70	82	42	1356
27 Feb 2023	447	492	445	65	104	34	1171
28 Feb 2023	447	492	445	65	104	34	1171

* Geometric mean calculated using n<5

Table 3.4

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

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

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.5

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

Date	I19		I24		I25		I26		I32		I39		I40	
	2m	6m	2m	6m	2m	6m	2m	6m	2m	6m	2m	6m	2m	6m
01 Feb 2023	16000	10000	16000	3000	7000	6000	5000	3600	780	2200	1800	340	16000	7000
02 Feb 2023	16000	11000	16000	3000	6000	6000	5000	3600	780	2200	1800	340	16000	7000
03 Feb 2023	16000	10100	16000	4800	11500	6600	2790	2350	650	1700	1370	500	16000	7000
04 Feb 2023	16000	8600	16000	4800	6600	6600	2790	2350	650	1700	1370	500	16000	7000
05 Feb 2023	16000	8600	16000	4800	11500	6600	2790	2350	650	1700	1370	500	16000	7000
06 Feb 2023	16000	8600	16000	4800	11500	6600	2790	2350	650	1700	1370	500	16000	7000
07 Feb 2023	16000	8600	16000	4800	11500	6600	2790	2350	650	1700	1370	500	16000	7000
08 Feb 2023	16000	8600	16000	4800	11500	6600	2790	2350	650	1700	1370	500	16000	7000
09 Feb 2023	16000	8600	16000	4800	11500	6600	2790	2350	650	1700	1370	500	16000	7000
10 Feb 2023	16000	7200	16000	6600	7200	7200	580	1100	520	1200	940	340	16000	7000
11 Feb 2023	9800	6100	16000	7500	11600	11600	2503	1840	277	660	670	430	16000	11500
12 Feb 2023	9800	6100	16000	7500	11600	11600	2503	1840	277	660	670	430	16000	11500
13 Feb 2023	16000	7200	16000	6600	6600	7200	1400	3600	520	1200	940	200	16000	16000
14 Feb 2023	16000	7200	16000	6600	6600	7200	1400	3600	520	1200	940	200	16000	16000
15 Feb 2023	16000	7200	16000	6600	6600	7200	1400	3600	520	1200	940	200	16000	16000
16 Feb 2023	16000	7200	16000	6600	6600	7200	1400	3600	520	1200	940	200	16000	16000
17 Feb 2023	9800	6100	16000	4000	11600	11600	703	2040	277	660	670	160	16000	16000
18 Feb 2023	9800	6100	16000	4000	11600	11600	703	2040	277	660	670	160	16000	16000
19 Feb 2023	9800	6100	16000	4000	11600	11600	703	2040	277	660	670	160	16000	16000
20 Feb 2023	3600	5000	16000	1400	16000	7200	1000	900	540	1200	940	120	16000	16000
21 Feb 2023	3600	5000	16000	1400	16000	7200	1000	900	540	1200	940	120	16000	16000
22 Feb 2023	3600	5000	16000	1400	16000	7200	1000	900	540	1200	940	120	16000	16000
23 Feb 2023	3500	6100	15500	1300	4800	4800	1200	2450	860	1200	960	108	16000	16000
24 Feb 2023	3500	6100	15500	1300	4800	4800	1200	2450	860	1200	960	108	16000	16000
25 Feb 2023	3500	6100	15500	1300	4800	4800	1200	2450	860	1200	960	108	16000	16000
26 Feb 2023	3500	6100	15500	1300	4800	4800	1200	2450	860	1200	960	108	16000	16000
27 Feb 2023	3600	7200	16000	1400	5200	5200	1000	900	940	1200	980	96	16000	16000
28 Feb 2023	3600	7200	16000	1400	5200	5200	1000	900	940	1200	980	96	16000	16000

Table 3.6

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

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

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.7

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

Station	Date	Time	Depth	Total	Fecal	Entero	Temp	XMS	DO	Sal	pH
I19	10 Feb 2023	1033	2	3600e	580	100e	12.2	25.46	6.3	33.51	7.9
I19	10 Feb 2023	1033	6	5000	880	110	12.2	23.16	6.3	33.51	7.9
I19	10 Feb 2023	1033	11	4800	740	78	12.2	22.83	6.2	33.51	7.9
I19	13 Feb 2023	1058	2	>16000	>12000	4600	13.5	42.52	8.8	33.17	8.1
I19	13 Feb 2023	1058	6	>16000	11000	4400	13.4	38.82	8.7	33.22	8.1
I19	13 Feb 2023	1058	11	>16000	9200	2200e	13.4	36.04	8.6	33.30	8.1
I19	21 Feb 2023	1100	2	140	20e	4e	13.6	63.74	8.7	33.38	8.1
I19	21 Feb 2023	1100	6	420	58	6e	13.5	61.93	8.6	33.38	8.1
I19	21 Feb 2023	1100	11	460	140e	24e	13.4	62.09	8.3	33.38	8.0
I19	27 Feb 2023	1129	2	15000	1400e	680	13.1	41.32	8.1	33.29	8.1
I19	27 Feb 2023	1129	6	7600	560	380e	13.1	51.96	8.0	33.33	8.1
I19	27 Feb 2023	1129	11	>16000	1600e	3800e	13.1	50.26	6.9	33.37	8.0
I24	10 Feb 2023	1052	2	15000	3000e	420	12.6	57.29	6.8	33.44	7.9
I24	10 Feb 2023	1052	6	>16000	2400e	640	12.6	57.65	6.7	33.44	7.9
I24	10 Feb 2023	1052	11	13000	2600e	600	12.5	42.90	6.0	33.47	7.9
I24	13 Feb 2023	1122	2	>16000	>12000	10000	13.9	51.41	9.2	32.60	8.1
I24	13 Feb 2023	1122	6	1200e	320e	96	13.4	61.27	8.8	33.40	8.1
I24	13 Feb 2023	1122	11	1400	320e	92	13.4	50.74	8.6	33.40	8.1
I24	21 Feb 2023	1118	2	24e	2e	2e	13.8	71.78	9.4	33.37	8.1
I24	21 Feb 2023	1118	6	60e	6e	4e	13.3	70.71	8.4	33.40	8.1
I24	21 Feb 2023	1118	11	120e	12e	24e	13.2	39.45	7.9	33.39	8.0
I24	27 Feb 2023	1152	2	>16000	400e	240e	13.3	25.09	8.2	33.07	8.0
I24	27 Feb 2023	1152	6	13000	520	240e	13.0	31.10	7.8	33.24	8.0
I24	27 Feb 2023	1152	11	3400e	480	520	13.0	38.35	7.6	33.25	8.0
I25	10 Feb 2023	1057	2	>16000	5600	840	12.6	44.34	7.4	33.39	8.0
I25	10 Feb 2023	1057	6	>16000	7000	1000	12.5	41.26	7.4	33.41	8.0
I25	10 Feb 2023	1057	9	15000	5200	720	12.4	39.87	7.0	33.47	7.9
I25	13 Feb 2023	1128	2	>16000	>12000	7000	13.8	50.65	9.4	33.01	8.2
I25	13 Feb 2023	1128	6	2400e	380e	68	13.4	54.25	8.6	33.40	8.1
I25	13 Feb 2023	1128	9	680	140e	42	13.4	50.41	8.5	33.40	8.1
I25	21 Feb 2023	1123	2	1100	110	2e	13.8	71.50	9.1	33.34	8.1
I25	21 Feb 2023	1123	6	180e	24e	18e	13.3	58.46	8.1	33.39	8.0
I25	21 Feb 2023	1123	9	120e	24e	12e	13.3	54.47	7.8	33.39	8.0
I25	27 Feb 2023	1157	2	1400	88	22e	13.6	37.89	7.8	33.14	8.0
I25	27 Feb 2023	1157	6	5200	80e	52	13.1	53.61	7.8	33.31	8.0
I25	27 Feb 2023	1157	9	5800	200e	500	13.1	32.76	7.5	33.31	8.0
I26	10 Feb 2023	1107	2	4e	<2	<2	13.3	72.90	7.8	33.42	8.1
I26	10 Feb 2023	1107	6	46	6e	<2	12.6	71.51	6.4	33.47	8.0
I26	10 Feb 2023	1107	9	30e	8e	4e	12.2	80.42	5.3	33.49	7.9

Station	Date	Time	Depth	Total	Fecal	Entero	Temp	XMS	DO	Sal	pH
I26	13 Feb 2023	1138	2	1400	300e	38e	13.6	56.24	9.0	33.31	8.1
I26	13 Feb 2023	1138	6	4000	1800e	140e	13.3	56.85	8.7	33.34	8.1
I26	13 Feb 2023	1138	9	3400e	940	180e	13.3	56.34	8.6	33.35	8.1
I26	21 Feb 2023	1133	2	1000	140e	10e	13.8	52.95	8.9	33.36	8.1
I26	21 Feb 2023	1133	6	900	160e	28e	13.6	61.94	8.5	33.37	8.1
I26	21 Feb 2023	1133	9	540	52	10e	13.4	68.08	8.1	33.40	8.1
I26	27 Feb 2023	1207	2	150	<2	<2	13.2	65.97	8.2	33.27	8.1
I26	27 Feb 2023	1207	6	780	40	44	13.1	60.27	7.8	33.34	8.1
I26	27 Feb 2023	1207	9	940	46	74	13.1	47.02	7.7	33.34	8.0
I32	10 Feb 2023	1120	2	<2	<2	<2	13.2	68.84	7.9	33.41	8.1
I32	10 Feb 2023	1120	6	6e	<2	<2	13.0	59.12	7.7	33.44	8.0
I32	10 Feb 2023	1120	9	<20	2e	22e	12.3	46.61	5.9	33.52	7.9
I32	13 Feb 2023	1151	2	2800e	480	110	13.6	61.35	9.1	33.27	8.2
I32	13 Feb 2023	1151	6	9800	2400e	420	13.2	61.43	8.7	33.29	8.1
I32	13 Feb 2023	1151	9	13000	3200e	700	13.3	60.71	8.6	33.31	8.1
I32	21 Feb 2023	1145	2	1200	360e	22e	13.8	65.59	9.2	33.32	8.1
I32	21 Feb 2023	1145	6	1200	220e	24e	13.8	64.81	9.0	33.34	8.1
I32	21 Feb 2023	1145	9	980	120e	24e	13.7	64.90	8.9	33.36	8.1
I32	27 Feb 2023	1220	2	220e	8e	6e	13.4	52.24	8.1	33.22	8.1
I32	27 Feb 2023	1220	6	15000	440	500	13.1	44.55	7.5	33.28	8.0
I32	27 Feb 2023	1220	9	13000	680	780	13.0	36.99	7.5	33.30	8.0
I39	10 Feb 2023	1008	2	120	28e	8e	12.9	78.72	7.2	33.43	8.0
I39	10 Feb 2023	1008	12	260e	40e	36e	12.0	86.04	5.0	33.52	7.9
I39	10 Feb 2023	1008	18	120	14e	<2	11.9	80.36	4.8	33.54	7.8
I39	13 Feb 2023	1035	2	78	22e	18e	13.8	79.48	8.9	33.27	8.2
I39	13 Feb 2023	1035	12	120e	40	26e	13.4	70.27	8.3	33.39	8.1
I39	13 Feb 2023	1035	18	220e	50	20e	13.4	63.78	8.1	33.40	8.1
I39	21 Feb 2023	1037	2	96	22e	4e	13.8	69.90	9.0	33.30	8.1
I39	21 Feb 2023	1037	12	140	32e	8e	12.7	78.94	6.2	33.46	7.9
I39	21 Feb 2023	1037	18	300e	92	16e	12.4	79.90	5.6	33.49	7.8
I39	27 Feb 2023	1108	2	52	<2	<2	13.4	57.51	8.3	33.21	8.1
I39	27 Feb 2023	1108	12	200e	4e	4e	13.1	71.04	8.0	33.35	8.1
I39	27 Feb 2023	1108	18	220e	10e	22e	13.1	68.51	7.8	33.35	8.0
I40	10 Feb 2023	1044	2	>16000	6200	1600e	12.3	53.71	6.7	33.39	7.9
I40	10 Feb 2023	1044	6	>16000	9000	1200e	12.3	53.81	6.5	33.40	7.9
I40	10 Feb 2023	1044	9	>16000	8000	2800e	12.3	50.83	6.1	33.45	7.9
I40	13 Feb 2023	1113	2	>16000	>12000	>12000	13.5	27.00	9.2	33.00	8.1
I40	13 Feb 2023	1113	6	>16000	1000e	480	13.4	56.71	8.8	33.39	8.1
I40	13 Feb 2023	1113	9	2400e	300e	200e	13.4	59.17	8.7	33.39	8.1
I40	21 Feb 2023	1110	2	8e	4e	<2	13.8	69.73	9.4	33.36	8.1
I40	21 Feb 2023	1110	6	6e	<2	2e	13.7	69.04	9.4	33.36	8.1
I40	21 Feb 2023	1110	9	480	110	36e	13.5	63.90	8.7	33.37	8.1
I40	27 Feb 2023	1141	2	11000	620	400	13.2	37.87	7.9	33.23	8.0
I40	27 Feb 2023	1141	6	11000	280e	220e	13.1	41.45	7.4	33.34	8.0
I40	27 Feb 2023	1141	9	7000	520	840	13.1	26.78	7.0	33.35	8.0

ns = not sampled

ND = no data

Table 3.8

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

Station	Date	Parameter	Value
I19	10 Feb 2023	Depth (m)	11
I19	10 Feb 2023	Arrive Time	1033
I19	10 Feb 2023	Depart Time	1038
I19	10 Feb 2023	Air Temp (C)	21.2
I19	10 Feb 2023	Weather	Clear
I19	10 Feb 2023	Visibility (mi)	10
I19	10 Feb 2023	Wind Speed (kts)	19
I19	10 Feb 2023	Wind Dir	E
I19	10 Feb 2023	Water Color	Brownish-Green
I19	10 Feb 2023	Wave Ht Low (ft)	4
I19	10 Feb 2023	Wave Period (sec)	12
I19	10 Feb 2023	Sea State	Light Chop
I19	10 Feb 2023	High Tide (ft)	4.26
I19	10 Feb 2023	High Tide Time	2354
I19	10 Feb 2023	Low Tide (ft)	0.77
I19	10 Feb 2023	Low Tide Time	1718
I19	10 Feb 2023	Comments	none
I19	13 Feb 2023	Depth (m)	10
I19	13 Feb 2023	Arrive Time	1058
I19	13 Feb 2023	Depart Time	1103
I19	13 Feb 2023	Air Temp (C)	13.3
I19	13 Feb 2023	Weather	Partly Cloudy
I19	13 Feb 2023	Visibility (mi)	10
I19	13 Feb 2023	Wind Speed (kts)	2.6
I19	13 Feb 2023	Wind Dir	S
I19	13 Feb 2023	Water Color	Greenish-Brown
I19	13 Feb 2023	Wave Ht Low (ft)	5
I19	13 Feb 2023	Wave Period (sec)	9
I19	13 Feb 2023	Sea State	Light Chop
I19	13 Feb 2023	High Tide (ft)	4.5
I19	13 Feb 2023	High Tide Time	124
I19	13 Feb 2023	Low Tide (ft)	1.03
I19	13 Feb 2023	Low Tide Time	936
I19	13 Feb 2023	Comments	none
I19	21 Feb 2023	Depth (m)	12
I19	21 Feb 2023	Arrive Time	1100
I19	21 Feb 2023	Depart Time	1104
I19	21 Feb 2023	Air Temp (C)	13.5
I19	21 Feb 2023	Weather	Partly Cloudy
I19	21 Feb 2023	Visibility (mi)	9
I19	21 Feb 2023	Wind Speed (kts)	21.5
I19	21 Feb 2023	Wind Dir	S
I19	21 Feb 2023	Water Color	Blueish-Green
I19	21 Feb 2023	Wave Ht Low (ft)	4
I19	21 Feb 2023	Wave Period (sec)	15
I19	21 Feb 2023	Sea State	Regular Swell
I19	21 Feb 2023	High Tide (ft)	6.09
I19	21 Feb 2023	High Tide Time	924
I19	21 Feb 2023	Low Tide (ft)	-1.1
I19	21 Feb 2023	Low Tide Time	1606
I19	21 Feb 2023	Comments	none
I19	27 Feb 2023	Depth (m)	11
I19	27 Feb 2023	Arrive Time	1129

Station	Date	Parameter	Value
I19	27 Feb 2023	Depart Time	1131
I19	27 Feb 2023	Air Temp (C)	12.7
I19	27 Feb 2023	Weather	Partly Cloudy
I19	27 Feb 2023	Visibility (mi)	10
I19	27 Feb 2023	Wind Speed (kts)	2.5
I19	27 Feb 2023	Wind Dir	NW
I19	27 Feb 2023	Water Color	Greenish-Brown
I19	27 Feb 2023	Wave Ht Low (ft)	1
I19	27 Feb 2023	Wave Period (sec)	12
I19	27 Feb 2023	Sea State	Calm
I19	27 Feb 2023	High Tide (ft)	4.37
I19	27 Feb 2023	High Tide Time	154
I19	27 Feb 2023	Low Tide (ft)	0.58
I19	27 Feb 2023	Low Tide Time	1036
I19	27 Feb 2023	Comments	none
I24	10 Feb 2023	Depth (m)	11
I24	10 Feb 2023	Arrive Time	1052
I24	10 Feb 2023	Depart Time	1055
I24	10 Feb 2023	Air Temp (C)	20.4
I24	10 Feb 2023	Weather	Clear
I24	10 Feb 2023	Visibility (mi)	10
I24	10 Feb 2023	Wind Speed (kts)	18.2
I24	10 Feb 2023	Wind Dir	E
I24	10 Feb 2023	Water Color	Brownish-Green
I24	10 Feb 2023	Wave Ht Low (ft)	4
I24	10 Feb 2023	Wave Period (sec)	12
I24	10 Feb 2023	Sea State	Light Chop
I24	10 Feb 2023	High Tide (ft)	4.26
I24	10 Feb 2023	High Tide Time	2354
I24	10 Feb 2023	Low Tide (ft)	0.77
I24	10 Feb 2023	Low Tide Time	1718
I24	10 Feb 2023	Comments	none
I24	13 Feb 2023	Depth (m)	9
I24	13 Feb 2023	Arrive Time	1122
I24	13 Feb 2023	Depart Time	1126
I24	13 Feb 2023	Air Temp (C)	12.5
I24	13 Feb 2023	Weather	Partly Cloudy
I24	13 Feb 2023	Visibility (mi)	10
I24	13 Feb 2023	Wind Speed (kts)	8.5
I24	13 Feb 2023	Wind Dir	SW
I24	13 Feb 2023	Water Color	Greenish-Brown
I24	13 Feb 2023	Wave Ht Low (ft)	5
I24	13 Feb 2023	Wave Period (sec)	9
I24	13 Feb 2023	Sea State	Light Chop
I24	13 Feb 2023	High Tide (ft)	4.5
I24	13 Feb 2023	High Tide Time	124
I24	13 Feb 2023	Low Tide (ft)	1.03
I24	13 Feb 2023	Low Tide Time	936
I24	13 Feb 2023	Comments	nasty sewage smell
I24	21 Feb 2023	Depth (m)	11
I24	21 Feb 2023	Arrive Time	1118
I24	21 Feb 2023	Depart Time	1122
I24	21 Feb 2023	Air Temp (C)	13.6
I24	21 Feb 2023	Weather	Partly Cloudy
I24	21 Feb 2023	Visibility (mi)	9
I24	21 Feb 2023	Wind Speed (kts)	17.3
I24	21 Feb 2023	Wind Dir	S
I24	21 Feb 2023	Water Color	Brownish-Green

Station	Date	Parameter	Value
I24	21 Feb 2023	Wave Ht Low (ft)	4
I24	21 Feb 2023	Wave Period (sec)	13
I24	21 Feb 2023	Sea State	Regular Swell
I24	21 Feb 2023	High Tide (ft)	6.09
I24	21 Feb 2023	High Tide Time	924
I24	21 Feb 2023	Low Tide (ft)	-1.1
I24	21 Feb 2023	Low Tide Time	1606
I24	21 Feb 2023	Comments	none
I24	27 Feb 2023	Depth (m)	9
I24	27 Feb 2023	Arrive Time	1152
I24	27 Feb 2023	Depart Time	1154
I24	27 Feb 2023	Air Temp (C)	12.6
I24	27 Feb 2023	Weather	Partly Cloudy
I24	27 Feb 2023	Visibility (mi)	10
I24	27 Feb 2023	Wind Speed (kts)	0.3
I24	27 Feb 2023	Wind Dir	NW
I24	27 Feb 2023	Water Color	Brown
I24	27 Feb 2023	Wave Ht Low (ft)	1
I24	27 Feb 2023	Wave Period (sec)	12
I24	27 Feb 2023	Sea State	Calm
I24	27 Feb 2023	High Tide (ft)	4.37
I24	27 Feb 2023	High Tide Time	154
I24	27 Feb 2023	Low Tide (ft)	0.58
I24	27 Feb 2023	Low Tide Time	1036
I24	27 Feb 2023	Comments	none
I25	10 Feb 2023	Depth (m)	11
I25	10 Feb 2023	Arrive Time	1057
I25	10 Feb 2023	Depart Time	1100
I25	10 Feb 2023	Air Temp (C)	20.7
I25	10 Feb 2023	Weather	Clear
I25	10 Feb 2023	Visibility (mi)	10
I25	10 Feb 2023	Wind Speed (kts)	14.9
I25	10 Feb 2023	Wind Dir	E
I25	10 Feb 2023	Water Color	Brownish-Green
I25	10 Feb 2023	Wave Ht Low (ft)	4
I25	10 Feb 2023	Wave Period (sec)	12
I25	10 Feb 2023	Sea State	Light Chop
I25	10 Feb 2023	High Tide (ft)	4.26
I25	10 Feb 2023	High Tide Time	2354
I25	10 Feb 2023	Low Tide (ft)	0.77
I25	10 Feb 2023	Low Tide Time	1718
I25	10 Feb 2023	Comments	none
I25	13 Feb 2023	Depth (m)	10
I25	13 Feb 2023	Arrive Time	1128
I25	13 Feb 2023	Depart Time	1134
I25	13 Feb 2023	Air Temp (C)	12.5
I25	13 Feb 2023	Weather	Partly Cloudy
I25	13 Feb 2023	Visibility (mi)	10
I25	13 Feb 2023	Wind Speed (kts)	9.5
I25	13 Feb 2023	Wind Dir	SW
I25	13 Feb 2023	Water Color	Greenish-Brown
I25	13 Feb 2023	Wave Ht Low (ft)	5
I25	13 Feb 2023	Wave Period (sec)	9
I25	13 Feb 2023	Sea State	Light Chop
I25	13 Feb 2023	High Tide (ft)	4.5
I25	13 Feb 2023	High Tide Time	124
I25	13 Feb 2023	Low Tide (ft)	1.03
I25	13 Feb 2023	Low Tide Time	936

Station	Date	Parameter	Value
I25	13 Feb 2023	Comments	sewage smell
I25	21 Feb 2023	Depth (m)	9
I25	21 Feb 2023	Arrive Time	1123
I25	21 Feb 2023	Depart Time	1127
I25	21 Feb 2023	Air Temp (C)	13.7
I25	21 Feb 2023	Weather	Partly Cloudy
I25	21 Feb 2023	Visibility (mi)	9
I25	21 Feb 2023	Wind Speed (kts)	7.3
I25	21 Feb 2023	Wind Dir	S
I25	21 Feb 2023	Water Color	Brownish-Green
I25	21 Feb 2023	Wave Ht Low (ft)	4
I25	21 Feb 2023	Wave Period (sec)	13
I25	21 Feb 2023	Sea State	Regular Swell
I25	21 Feb 2023	High Tide (ft)	6.09
I25	21 Feb 2023	High Tide Time	924
I25	21 Feb 2023	Low Tide (ft)	-1.1
I25	21 Feb 2023	Low Tide Time	1606
I25	21 Feb 2023	Comments	none
I25	27 Feb 2023	Depth (m)	9
I25	27 Feb 2023	Arrive Time	1157
I25	27 Feb 2023	Depart Time	1159
I25	27 Feb 2023	Air Temp (C)	12.5
I25	27 Feb 2023	Weather	Partly Cloudy
I25	27 Feb 2023	Visibility (mi)	10
I25	27 Feb 2023	Wind Speed (kts)	2.3
I25	27 Feb 2023	Wind Dir	NW
I25	27 Feb 2023	Water Color	Brown
I25	27 Feb 2023	Wave Ht Low (ft)	1
I25	27 Feb 2023	Wave Period (sec)	12
I25	27 Feb 2023	Sea State	Calm
I25	27 Feb 2023	High Tide (ft)	4.37
I25	27 Feb 2023	High Tide Time	154
I25	27 Feb 2023	Low Tide (ft)	0.58
I25	27 Feb 2023	Low Tide Time	1036
I25	27 Feb 2023	Comments	none
I26	10 Feb 2023	Depth (m)	10
I26	10 Feb 2023	Arrive Time	1107
I26	10 Feb 2023	Depart Time	1111
I26	10 Feb 2023	Air Temp (C)	20.8
I26	10 Feb 2023	Weather	Clear
I26	10 Feb 2023	Visibility (mi)	10
I26	10 Feb 2023	Wind Speed (kts)	6
I26	10 Feb 2023	Wind Dir	NE
I26	10 Feb 2023	Water Color	Brownish-Green
I26	10 Feb 2023	Wave Ht Low (ft)	4
I26	10 Feb 2023	Wave Period (sec)	12
I26	10 Feb 2023	Sea State	Light Chop
I26	10 Feb 2023	High Tide (ft)	4.26
I26	10 Feb 2023	High Tide Time	2354
I26	10 Feb 2023	Low Tide (ft)	0.77
I26	10 Feb 2023	Low Tide Time	1718
I26	10 Feb 2023	Comments	none
I26	13 Feb 2023	Depth (m)	9
I26	13 Feb 2023	Arrive Time	1138
I26	13 Feb 2023	Depart Time	1142
I26	13 Feb 2023	Air Temp (C)	12.5
I26	13 Feb 2023	Weather	Partly Cloudy

Station	Date	Parameter	Value
I26	13 Feb 2023	Visibility (mi)	10
I26	13 Feb 2023	Wind Speed (kts)	8.1
I26	13 Feb 2023	Wind Dir	SW
I26	13 Feb 2023	Water Color	Greenish-Brown
I26	13 Feb 2023	Wave Ht Low (ft)	5
I26	13 Feb 2023	Wave Period (sec)	9
I26	13 Feb 2023	Sea State	Light Chop
I26	13 Feb 2023	High Tide (ft)	4.5
I26	13 Feb 2023	High Tide Time	124
I26	13 Feb 2023	Low Tide (ft)	1.03
I26	13 Feb 2023	Low Tide Time	936
I26	13 Feb 2023	Comments	none
I26	21 Feb 2023	Depth (m)	10
I26	21 Feb 2023	Arrive Time	1133
I26	21 Feb 2023	Depart Time	1137
I26	21 Feb 2023	Air Temp (C)	13.8
I26	21 Feb 2023	Weather	Partly Cloudy
I26	21 Feb 2023	Visibility (mi)	9
I26	21 Feb 2023	Wind Speed (kts)	12.2
I26	21 Feb 2023	Wind Dir	S
I26	21 Feb 2023	Water Color	Brownish-Green
I26	21 Feb 2023	Wave Ht Low (ft)	4
I26	21 Feb 2023	Wave Period (sec)	13
I26	21 Feb 2023	Sea State	Heavy Chop
I26	21 Feb 2023	High Tide (ft)	6.09
I26	21 Feb 2023	High Tide Time	924
I26	21 Feb 2023	Low Tide (ft)	-1.1
I26	21 Feb 2023	Low Tide Time	1606
I26	21 Feb 2023	Comments	Sewage smell
I26	27 Feb 2023	Depth (m)	9
I26	27 Feb 2023	Arrive Time	1207
I26	27 Feb 2023	Depart Time	1209
I26	27 Feb 2023	Air Temp (C)	12.6
I26	27 Feb 2023	Weather	Partly Cloudy
I26	27 Feb 2023	Visibility (mi)	10
I26	27 Feb 2023	Wind Speed (kts)	0
I26	27 Feb 2023	Wind Dir	W
I26	27 Feb 2023	Water Color	Green
I26	27 Feb 2023	Wave Ht Low (ft)	1
I26	27 Feb 2023	Wave Period (sec)	12
I26	27 Feb 2023	Sea State	Calm
I26	27 Feb 2023	High Tide (ft)	4.37
I26	27 Feb 2023	High Tide Time	154
I26	27 Feb 2023	Low Tide (ft)	0.58
I26	27 Feb 2023	Low Tide Time	1036
I26	27 Feb 2023	Comments	none
I32	10 Feb 2023	Depth (m)	11
I32	10 Feb 2023	Arrive Time	1120
I32	10 Feb 2023	Depart Time	1123
I32	10 Feb 2023	Air Temp (C)	15.9
I32	10 Feb 2023	Weather	Clear
I32	10 Feb 2023	Visibility (mi)	10
I32	10 Feb 2023	Wind Speed (kts)	7
I32	10 Feb 2023	Wind Dir	NW
I32	10 Feb 2023	Water Color	Brownish-Green
I32	10 Feb 2023	Wave Ht Low (ft)	4
I32	10 Feb 2023	Wave Period (sec)	12
I32	10 Feb 2023	Sea State	Light Chop

Station	Date	Parameter	Value
I32	10 Feb 2023	High Tide (ft)	4.26
I32	10 Feb 2023	High Tide Time	2354
I32	10 Feb 2023	Low Tide (ft)	0.77
I32	10 Feb 2023	Low Tide Time	1718
I32	10 Feb 2023	Comments	none
I32	13 Feb 2023	Depth (m)	10
I32	13 Feb 2023	Arrive Time	1151
I32	13 Feb 2023	Depart Time	1156
I32	13 Feb 2023	Air Temp (C)	12.8
I32	13 Feb 2023	Weather	Partly Cloudy
I32	13 Feb 2023	Visibility (mi)	10
I32	13 Feb 2023	Wind Speed (kts)	10.8
I32	13 Feb 2023	Wind Dir	SW
I32	13 Feb 2023	Water Color	Greenish-Brown
I32	13 Feb 2023	Wave Ht Low (ft)	5
I32	13 Feb 2023	Wave Period (sec)	9
I32	13 Feb 2023	Sea State	Light Chop
I32	13 Feb 2023	High Tide (ft)	4.5
I32	13 Feb 2023	High Tide Time	124
I32	13 Feb 2023	Low Tide (ft)	1.03
I32	13 Feb 2023	Low Tide Time	936
I32	13 Feb 2023	Comments	none
I32	21 Feb 2023	Depth (m)	11
I32	21 Feb 2023	Arrive Time	1145
I32	21 Feb 2023	Depart Time	1150
I32	21 Feb 2023	Air Temp (C)	13.8
I32	21 Feb 2023	Weather	Partly Cloudy
I32	21 Feb 2023	Visibility (mi)	9
I32	21 Feb 2023	Wind Speed (kts)	12.4
I32	21 Feb 2023	Wind Dir	S
I32	21 Feb 2023	Water Color	Brownish-Green
I32	21 Feb 2023	Wave Ht Low (ft)	4
I32	21 Feb 2023	Wave Period (sec)	13
I32	21 Feb 2023	Sea State	Heavy Chop
I32	21 Feb 2023	High Tide (ft)	6.09
I32	21 Feb 2023	High Tide Time	924
I32	21 Feb 2023	Low Tide (ft)	-1.1
I32	21 Feb 2023	Low Tide Time	1606
I32	21 Feb 2023	Comments	none
I32	27 Feb 2023	Depth (m)	10
I32	27 Feb 2023	Arrive Time	1220
I32	27 Feb 2023	Depart Time	1222
I32	27 Feb 2023	Air Temp (C)	12.5
I32	27 Feb 2023	Weather	Partly Cloudy
I32	27 Feb 2023	Visibility (mi)	10
I32	27 Feb 2023	Wind Speed (kts)	3.7
I32	27 Feb 2023	Wind Dir	NW
I32	27 Feb 2023	Water Color	Green
I32	27 Feb 2023	Wave Ht Low (ft)	1
I32	27 Feb 2023	Wave Period (sec)	12
I32	27 Feb 2023	Sea State	Calm
I32	27 Feb 2023	High Tide (ft)	4.37
I32	27 Feb 2023	High Tide Time	154
I32	27 Feb 2023	Low Tide (ft)	0.58
I32	27 Feb 2023	Low Tide Time	1036
I32	27 Feb 2023	Comments	none
I39	10 Feb 2023	Depth (m)	18

Station	Date	Parameter	Value
I39	10 Feb 2023	Arrive Time	1008
I39	10 Feb 2023	Depart Time	1013
I39	10 Feb 2023	Air Temp (C)	19.5
I39	10 Feb 2023	Weather	Clear
I39	10 Feb 2023	Visibility (mi)	10
I39	10 Feb 2023	Wind Speed (kts)	18.8
I39	10 Feb 2023	Wind Dir	E
I39	10 Feb 2023	Water Color	Greenish-Blue
I39	10 Feb 2023	Wave Ht Low (ft)	4
I39	10 Feb 2023	Wave Period (sec)	12
I39	10 Feb 2023	Sea State	Light Chop
I39	10 Feb 2023	High Tide (ft)	4.26
I39	10 Feb 2023	High Tide Time	2354
I39	10 Feb 2023	Low Tide (ft)	0.77
I39	10 Feb 2023	Low Tide Time	1718
I39	10 Feb 2023	Comments	none
I39	13 Feb 2023	Depth (m)	20
I39	13 Feb 2023	Arrive Time	1035
I39	13 Feb 2023	Depart Time	1039
I39	13 Feb 2023	Air Temp (C)	12.3
I39	13 Feb 2023	Weather	Partly Cloudy
I39	13 Feb 2023	Visibility (mi)	10
I39	13 Feb 2023	Wind Speed (kts)	6.6
I39	13 Feb 2023	Wind Dir	S
I39	13 Feb 2023	Water Color	Brown
I39	13 Feb 2023	Wave Ht Low (ft)	5
I39	13 Feb 2023	Wave Period (sec)	9
I39	13 Feb 2023	Sea State	Rough
I39	13 Feb 2023	High Tide (ft)	4.5
I39	13 Feb 2023	High Tide Time	124
I39	13 Feb 2023	Low Tide (ft)	1.03
I39	13 Feb 2023	Low Tide Time	936
I39	13 Feb 2023	Comments	nasty sewage smell
I39	21 Feb 2023	Depth (m)	19
I39	21 Feb 2023	Arrive Time	1037
I39	21 Feb 2023	Depart Time	1041
I39	21 Feb 2023	Air Temp (C)	13.5
I39	21 Feb 2023	Weather	Partly Cloudy
I39	21 Feb 2023	Visibility (mi)	9
I39	21 Feb 2023	Wind Speed (kts)	16.1
I39	21 Feb 2023	Wind Dir	S
I39	21 Feb 2023	Water Color	Blueish-Green
I39	21 Feb 2023	Wave Ht Low (ft)	4
I39	21 Feb 2023	Wave Period (sec)	15
I39	21 Feb 2023	Sea State	Regular Swell
I39	21 Feb 2023	High Tide (ft)	6.09
I39	21 Feb 2023	High Tide Time	924
I39	21 Feb 2023	Low Tide (ft)	-1.1
I39	21 Feb 2023	Low Tide Time	1606
I39	21 Feb 2023	Comments	none
I39	27 Feb 2023	Depth (m)	18
I39	27 Feb 2023	Arrive Time	1108
I39	27 Feb 2023	Depart Time	1109
I39	27 Feb 2023	Air Temp (C)	12.7
I39	27 Feb 2023	Weather	Partly Cloudy
I39	27 Feb 2023	Visibility (mi)	10
I39	27 Feb 2023	Wind Speed (kts)	0.3
I39	27 Feb 2023	Wind Dir	W

Station	Date	Parameter	Value
I39	27 Feb 2023	Water Color	Green
I39	27 Feb 2023	Wave Ht Low (ft)	1
I39	27 Feb 2023	Wave Period (sec)	12
I39	27 Feb 2023	Sea State	Calm
I39	27 Feb 2023	High Tide (ft)	4.37
I39	27 Feb 2023	High Tide Time	154
I39	27 Feb 2023	Low Tide (ft)	0.58
I39	27 Feb 2023	Low Tide Time	1036
I39	27 Feb 2023	Comments	none
I40	10 Feb 2023	Depth (m)	10
I40	10 Feb 2023	Arrive Time	1044
I40	10 Feb 2023	Depart Time	1048
I40	10 Feb 2023	Air Temp (C)	21.3
I40	10 Feb 2023	Weather	Clear
I40	10 Feb 2023	Visibility (mi)	10
I40	10 Feb 2023	Wind Speed (kts)	16.9
I40	10 Feb 2023	Wind Dir	NE
I40	10 Feb 2023	Water Color	Brownish-Green
I40	10 Feb 2023	Wave Ht Low (ft)	4
I40	10 Feb 2023	Wave Period (sec)	12
I40	10 Feb 2023	Sea State	Light Chop
I40	10 Feb 2023	High Tide (ft)	4.26
I40	10 Feb 2023	High Tide Time	2354
I40	10 Feb 2023	Low Tide (ft)	0.77
I40	10 Feb 2023	Low Tide Time	1718
I40	10 Feb 2023	Comments	none
I40	13 Feb 2023	Depth (m)	10
I40	13 Feb 2023	Arrive Time	1113
I40	13 Feb 2023	Depart Time	1122
I40	13 Feb 2023	Air Temp (C)	12.6
I40	13 Feb 2023	Weather	Partly Cloudy
I40	13 Feb 2023	Visibility (mi)	10
I40	13 Feb 2023	Wind Speed (kts)	7.4
I40	13 Feb 2023	Wind Dir	SW
I40	13 Feb 2023	Water Color	Greenish-Brown
I40	13 Feb 2023	Wave Ht Low (ft)	5
I40	13 Feb 2023	Wave Period (sec)	9
I40	13 Feb 2023	Sea State	Light Chop
I40	13 Feb 2023	High Tide (ft)	4.5
I40	13 Feb 2023	High Tide Time	124
I40	13 Feb 2023	Low Tide (ft)	1.03
I40	13 Feb 2023	Low Tide Time	936
I40	13 Feb 2023	Comments	HORRIBLE HORRIBLE SEWAGE SMELL
I40	21 Feb 2023	Depth (m)	11
I40	21 Feb 2023	Arrive Time	1110
I40	21 Feb 2023	Depart Time	1114
I40	21 Feb 2023	Air Temp (C)	13.7
I40	21 Feb 2023	Weather	Partly Cloudy
I40	21 Feb 2023	Visibility (mi)	9
I40	21 Feb 2023	Wind Speed (kts)	7.9
I40	21 Feb 2023	Wind Dir	S
I40	21 Feb 2023	Water Color	Brownish-Green
I40	21 Feb 2023	Wave Ht Low (ft)	4
I40	21 Feb 2023	Wave Period (sec)	15
I40	21 Feb 2023	Sea State	Regular Swell
I40	21 Feb 2023	High Tide (ft)	6.09
I40	21 Feb 2023	High Tide Time	924
I40	21 Feb 2023	Low Tide (ft)	-1.1

Station	Date	Parameter	Value
I40	21 Feb 2023	Low Tide Time	1606
I40	21 Feb 2023	Comments	none
I40	27 Feb 2023	Depth (m)	9
I40	27 Feb 2023	Arrive Time	1141
I40	27 Feb 2023	Depart Time	1142
I40	27 Feb 2023	Air Temp (C)	12.6
I40	27 Feb 2023	Weather	Partly Cloudy
I40	27 Feb 2023	Visibility (mi)	10
I40	27 Feb 2023	Wind Speed (kts)	2.1
I40	27 Feb 2023	Wind Dir	NW
I40	27 Feb 2023	Water Color	Brown
I40	27 Feb 2023	Wave Ht Low (ft)	1
I40	27 Feb 2023	Wave Period (sec)	12
I40	27 Feb 2023	Sea State	Calm
I40	27 Feb 2023	High Tide (ft)	4.37
I40	27 Feb 2023	High Tide Time	154
I40	27 Feb 2023	Low Tide (ft)	0.58
I40	27 Feb 2023	Low Tide Time	1036
I40	27 Feb 2023	Comments	none

Table 3.9

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

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I19	10 Feb 2023	1	12.23	26.29	6.4	33.51	7.9	25.4	1.24
I19	10 Feb 2023	2	12.21	25.46	6.3	33.51	7.9	25.4	1.55
I19	10 Feb 2023	3	12.20	25.48	6.3	33.51	7.9	25.4	2.00
I19	10 Feb 2023	4	12.21	25.59	6.3	33.51	7.9	25.4	2.08
I19	10 Feb 2023	5	12.20	23.63	6.3	33.51	7.9	25.4	2.02
I19	10 Feb 2023	6	12.19	23.16	6.3	33.51	7.9	25.4	2.05
I19	10 Feb 2023	7	12.18	22.84	6.2	33.51	7.9	25.4	2.09
I19	10 Feb 2023	8	12.18	22.15	6.2	33.51	7.9	25.4	2.24
I19	10 Feb 2023	9	12.18	23.30	6.2	33.51	7.9	25.4	2.23
I19	10 Feb 2023	10	12.18	22.83	6.2	33.51	7.9	25.4	2.21
I19	13 Feb 2023	1	13.51	43.05	8.8	33.16	8.1	24.9	4.40
I19	13 Feb 2023	2	13.47	42.52	8.8	33.17	8.1	24.9	5.93
I19	13 Feb 2023	3	13.45	42.27	8.8	33.18	8.1	24.9	7.17
I19	13 Feb 2023	4	13.44	41.00	8.8	33.19	8.1	24.9	7.51
I19	13 Feb 2023	5	13.43	40.35	8.7	33.20	8.1	24.9	7.31
I19	13 Feb 2023	6	13.42	38.82	8.7	33.22	8.1	24.9	7.42
I19	13 Feb 2023	7	13.41	35.54	8.6	33.23	8.1	24.9	7.61
I19	13 Feb 2023	8	13.39	33.77	8.6	33.27	8.1	25.0	7.71
I19	13 Feb 2023	9	13.39	34.21	8.6	33.27	8.1	25.0	7.74
I19	13 Feb 2023	10	13.38	36.04	8.6	33.30	8.1	25.0	7.84
I19	21 Feb 2023	1	13.64	64.17	8.7	33.38	8.1	25.0	1.79
I19	21 Feb 2023	2	13.64	63.74	8.7	33.38	8.1	25.0	1.98
I19	21 Feb 2023	3	13.62	63.10	8.7	33.38	8.1	25.0	2.55
I19	21 Feb 2023	4	13.57	62.97	8.7	33.38	8.1	25.0	3.75
I19	21 Feb 2023	5	13.53	62.28	8.7	33.38	8.1	25.0	4.62
I19	21 Feb 2023	6	13.50	61.93	8.6	33.38	8.1	25.0	5.06
I19	21 Feb 2023	7	13.44	61.68	8.5	33.38	8.1	25.0	5.36
I19	21 Feb 2023	8	13.41	61.61	8.5	33.38	8.1	25.1	5.78
I19	21 Feb 2023	9	13.39	61.83	8.4	33.38	8.1	25.1	5.46
I19	21 Feb 2023	10	13.37	62.09	8.3	33.38	8.0	25.1	5.40
I19	27 Feb 2023	1	13.23	42.24	8.2	33.23	8.1	25.0	1.17
I19	27 Feb 2023	2	13.12	41.32	8.1	33.29	8.1	25.0	1.37
I19	27 Feb 2023	3	13.10	41.92	8.1	33.30	8.1	25.1	1.90
I19	27 Feb 2023	4	13.10	43.55	8.1	33.31	8.1	25.1	2.21
I19	27 Feb 2023	5	13.09	46.73	8.0	33.32	8.1	25.1	2.38
I19	27 Feb 2023	6	13.06	51.96	8.0	33.33	8.1	25.1	2.58
I19	27 Feb 2023	7	13.05	58.53	7.9	33.34	8.1	25.1	2.55
I19	27 Feb 2023	8	13.06	62.86	7.9	33.36	8.1	25.1	2.44
I19	27 Feb 2023	9	13.06	63.18	7.6	33.37	8.0	25.1	2.55
I19	27 Feb 2023	10	13.08	50.26	6.9	33.37	8.0	25.1	2.76
I24	10 Feb 2023	1	12.62	57.59	6.8	33.44	7.9	25.3	1.10
I24	10 Feb 2023	2	12.62	57.29	6.8	33.44	7.9	25.3	1.16
I24	10 Feb 2023	3	12.62	58.41	6.8	33.44	7.9	25.3	1.27
I24	10 Feb 2023	4	12.60	57.89	6.8	33.44	7.9	25.3	1.87
I24	10 Feb 2023	5	12.59	57.77	6.7	33.44	7.9	25.3	2.39
I24	10 Feb 2023	6	12.59	57.65	6.7	33.44	7.9	25.3	2.59
I24	10 Feb 2023	7	12.59	57.00	6.7	33.44	7.9	25.3	2.75
I24	10 Feb 2023	8	12.59	57.11	6.7	33.44	7.9	25.3	2.74
I24	10 Feb 2023	9	12.55	56.40	6.4	33.45	7.9	25.3	2.41
I24	10 Feb 2023	10	12.51	50.81	6.1	33.46	7.9	25.3	2.23
I24	10 Feb 2023	11	12.46	42.90	6.0	33.47	7.9	25.3	2.13

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I24	13 Feb 2023	1	13.94	40.62	9.2	32.41	8.1	24.2	4.40
I24	13 Feb 2023	2	13.87	51.41	9.2	32.60	8.1	24.4	5.61
I24	13 Feb 2023	3	13.68	52.54	9.2	33.09	8.2	24.8	8.41
I24	13 Feb 2023	4	13.50	63.42	9.1	33.40	8.2	25.1	10.02
I24	13 Feb 2023	5	13.55	62.88	9.1	33.35	8.1	25.0	10.85
I24	13 Feb 2023	6	13.45	61.27	8.8	33.40	8.1	25.1	9.19
I24	13 Feb 2023	7	13.43	57.59	8.6	33.40	8.1	25.1	8.11
I24	13 Feb 2023	8	13.43	52.86	8.6	33.40	8.1	25.1	7.72
I24	13 Feb 2023	9	13.43	50.74	8.6	33.40	8.1	25.1	7.48
I24	21 Feb 2023	1	13.86	72.07	9.4	33.37	8.1	25.0	2.11
I24	21 Feb 2023	2	13.85	71.78	9.4	33.37	8.1	25.0	2.24
I24	21 Feb 2023	3	13.85	71.60	9.4	33.37	8.1	25.0	2.67
I24	21 Feb 2023	4	13.81	71.86	9.3	33.37	8.1	25.0	3.21
I24	21 Feb 2023	5	13.64	72.23	8.9	33.37	8.1	25.0	4.19
I24	21 Feb 2023	6	13.30	70.71	8.4	33.40	8.1	25.1	4.97
I24	21 Feb 2023	7	13.27	64.75	8.1	33.39	8.1	25.1	5.63
I24	21 Feb 2023	8	13.27	61.18	8.1	33.39	8.1	25.1	6.21
I24	21 Feb 2023	9	13.27	57.54	8.1	33.39	8.0	25.1	6.07
I24	21 Feb 2023	10	13.26	50.12	7.9	33.39	8.0	25.1	5.82
I24	21 Feb 2023	11	13.25	39.45	7.9	33.39	8.0	25.1	5.56
I24	27 Feb 2023	1	13.44	26.12	8.2	32.85	8.0	24.6	1.35
I24	27 Feb 2023	2	13.27	25.09	8.2	33.07	8.0	24.8	1.66
I24	27 Feb 2023	3	13.12	23.58	8.1	33.21	8.0	25.0	2.32
I24	27 Feb 2023	4	13.03	24.30	8.0	33.22	8.0	25.0	2.67
I24	27 Feb 2023	5	13.08	25.75	7.9	33.24	8.0	25.0	2.61
I24	27 Feb 2023	6	13.04	31.10	7.8	33.24	8.0	25.0	2.36
I24	27 Feb 2023	7	13.00	36.65	7.7	33.24	8.0	25.0	2.25
I24	27 Feb 2023	8	13.01	40.43	7.7	33.24	8.0	25.0	2.20
I24	27 Feb 2023	9	13.01	38.35	7.6	33.25	8.0	25.0	2.21
I25	10 Feb 2023	1	12.64	44.70	7.4	33.39	8.0	25.2	1.15
I25	10 Feb 2023	2	12.64	44.34	7.4	33.39	8.0	25.2	1.30
I25	10 Feb 2023	3	12.63	44.31	7.4	33.40	8.0	25.2	1.66
I25	10 Feb 2023	4	12.58	43.58	7.4	33.40	8.0	25.2	2.27
I25	10 Feb 2023	5	12.52	42.36	7.5	33.41	8.0	25.3	2.64
I25	10 Feb 2023	6	12.48	41.26	7.4	33.41	8.0	25.3	2.77
I25	10 Feb 2023	7	12.44	40.20	7.3	33.43	7.9	25.3	2.71
I25	10 Feb 2023	8	12.43	39.03	7.1	33.46	7.9	25.3	2.68
I25	10 Feb 2023	9	12.43	39.87	7.0	33.47	7.9	25.3	2.56
I25	13 Feb 2023	1	13.91	47.80	9.3	32.64	8.2	24.4	3.45
I25	13 Feb 2023	2	13.75	50.65	9.4	33.01	8.2	24.7	4.74
I25	13 Feb 2023	3	13.56	63.15	9.3	33.38	8.2	25.0	7.20
I25	13 Feb 2023	4	13.47	65.38	9.0	33.40	8.2	25.1	8.69
I25	13 Feb 2023	5	13.45	56.96	8.8	33.40	8.1	25.1	8.91
I25	13 Feb 2023	6	13.44	54.25	8.6	33.40	8.1	25.1	8.23
I25	13 Feb 2023	7	13.44	53.53	8.6	33.40	8.1	25.1	7.67
I25	13 Feb 2023	8	13.44	52.46	8.5	33.40	8.1	25.1	7.04
I25	13 Feb 2023	9	13.44	50.41	8.5	33.40	8.1	25.1	6.70
I25	21 Feb 2023	1	13.80	71.55	9.2	33.34	8.1	24.9	1.79
I25	21 Feb 2023	2	13.79	71.50	9.1	33.34	8.1	24.9	1.90
I25	21 Feb 2023	3	13.61	70.81	8.7	33.36	8.1	25.0	2.33
I25	21 Feb 2023	4	13.36	65.36	8.3	33.39	8.1	25.1	3.24
I25	21 Feb 2023	5	13.35	61.05	8.2	33.39	8.1	25.1	4.21
I25	21 Feb 2023	6	13.33	58.46	8.1	33.39	8.0	25.1	5.12
I25	21 Feb 2023	7	13.30	56.99	8.0	33.39	8.0	25.1	5.60
I25	21 Feb 2023	8	13.28	55.36	7.9	33.39	8.0	25.1	5.19
I25	21 Feb 2023	9	13.28	54.47	7.8	33.39	8.0	25.1	4.86

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I25	27 Feb 2023	1	13.88	38.42	7.9	33.05	8.0	24.7	0.77
I25	27 Feb 2023	2	13.63	37.89	7.8	33.14	8.0	24.8	0.87
I25	27 Feb 2023	3	13.15	39.05	8.0	33.28	8.0	25.0	1.42
I25	27 Feb 2023	4	13.07	44.42	8.0	33.29	8.1	25.1	1.99
I25	27 Feb 2023	5	13.07	51.95	7.9	33.30	8.1	25.1	2.28
I25	27 Feb 2023	6	13.06	53.61	7.8	33.31	8.0	25.1	2.37
I25	27 Feb 2023	7	13.06	50.66	7.7	33.31	8.0	25.1	2.40
I25	27 Feb 2023	8	13.06	45.06	7.6	33.31	8.0	25.1	2.42
I25	27 Feb 2023	9	13.06	32.76	7.5	33.31	8.0	25.1	2.61
I26	10 Feb 2023	1	13.37	73.04	7.8	33.42	8.1	25.1	1.24
I26	10 Feb 2023	2	13.30	72.90	7.8	33.42	8.1	25.1	1.39
I26	10 Feb 2023	3	13.22	72.54	7.7	33.42	8.1	25.1	1.91
I26	10 Feb 2023	4	13.16	71.55	7.5	33.42	8.1	25.1	2.73
I26	10 Feb 2023	5	12.91	70.99	7.0	33.44	8.0	25.2	3.27
I26	10 Feb 2023	6	12.59	71.51	6.4	33.47	8.0	25.3	3.22
I26	10 Feb 2023	7	12.58	74.95	6.0	33.46	8.0	25.3	2.85
I26	10 Feb 2023	8	12.26	78.45	5.6	33.50	7.9	25.4	2.04
I26	10 Feb 2023	9	12.25	80.42	5.3	33.49	7.9	25.4	1.78
I26	13 Feb 2023	1	13.56	56.16	9.0	33.31	8.1	25.0	2.38
I26	13 Feb 2023	2	13.55	56.24	9.0	33.31	8.1	25.0	2.66
I26	13 Feb 2023	3	13.44	55.88	8.9	33.32	8.1	25.0	4.59
I26	13 Feb 2023	4	13.33	55.06	8.8	33.34	8.1	25.0	6.96
I26	13 Feb 2023	5	13.32	55.49	8.8	33.34	8.1	25.0	7.65
I26	13 Feb 2023	6	13.32	56.85	8.7	33.34	8.1	25.0	7.97
I26	13 Feb 2023	7	13.34	57.34	8.6	33.34	8.1	25.0	6.88
I26	13 Feb 2023	8	13.34	56.97	8.6	33.35	8.1	25.0	6.98
I26	13 Feb 2023	9	13.35	56.34	8.6	33.35	8.1	25.0	6.81
I26	21 Feb 2023	1	13.77	47.27	8.9	33.36	8.1	25.0	1.95
I26	21 Feb 2023	2	13.76	52.95	8.9	33.36	8.1	25.0	2.28
I26	21 Feb 2023	3	13.76	64.38	8.8	33.36	8.1	25.0	3.08
I26	21 Feb 2023	4	13.72	64.18	8.8	33.36	8.1	25.0	3.75
I26	21 Feb 2023	5	13.70	63.26	8.7	33.36	8.1	25.0	4.38
I26	21 Feb 2023	6	13.58	61.94	8.5	33.37	8.1	25.0	4.81
I26	21 Feb 2023	7	13.53	60.64	8.6	33.38	8.1	25.0	5.91
I26	21 Feb 2023	8	13.50	64.81	8.5	33.38	8.1	25.0	6.26
I26	21 Feb 2023	9	13.36	68.08	8.1	33.40	8.1	25.1	5.30
I26	27 Feb 2023	1	13.48	67.18	8.2	33.27	8.1	25.0	0.69
I26	27 Feb 2023	2	13.23	65.97	8.2	33.27	8.1	25.0	0.86
I26	27 Feb 2023	3	13.14	65.03	8.2	33.27	8.1	25.0	1.20
I26	27 Feb 2023	4	13.15	63.77	8.1	33.30	8.1	25.0	1.70
I26	27 Feb 2023	5	13.11	63.11	7.9	33.33	8.1	25.1	2.16
I26	27 Feb 2023	6	13.08	60.27	7.8	33.34	8.1	25.1	2.63
I26	27 Feb 2023	7	13.07	56.95	7.8	33.34	8.0	25.1	2.75
I26	27 Feb 2023	8	13.07	50.82	7.7	33.34	8.0	25.1	2.83
I26	27 Feb 2023	9	13.07	47.02	7.7	33.34	8.0	25.1	2.70
I32	10 Feb 2023	1	13.29	69.75	7.9	33.40	8.1	25.1	2.17
I32	10 Feb 2023	2	13.23	68.84	7.9	33.41	8.1	25.1	2.48
I32	10 Feb 2023	3	13.12	67.93	7.9	33.42	8.1	25.1	3.39
I32	10 Feb 2023	4	13.03	66.38	7.9	33.43	8.0	25.2	4.27
I32	10 Feb 2023	5	13.02	60.78	7.9	33.43	8.0	25.2	4.86
I32	10 Feb 2023	6	12.96	59.12	7.7	33.44	8.0	25.2	4.87
I32	10 Feb 2023	7	12.78	56.87	7.3	33.46	8.0	25.2	4.16
I32	10 Feb 2023	8	12.55	52.43	6.8	33.49	8.0	25.3	3.64
I32	10 Feb 2023	9	12.32	46.61	5.9	33.52	7.9	25.4	3.10
I32	10 Feb 2023	10	12.10	38.81	5.1	33.54	7.9	25.4	2.61

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I32	13 Feb 2023	1	13.59	61.65	9.2	33.27	8.2	24.9	2.63
I32	13 Feb 2023	2	13.55	61.35	9.1	33.27	8.2	24.9	3.28
I32	13 Feb 2023	3	13.35	60.78	9.0	33.30	8.2	25.0	5.85
I32	13 Feb 2023	4	13.33	61.09	8.9	33.30	8.1	25.0	8.42
I32	13 Feb 2023	5	13.28	63.70	8.8	33.30	8.1	25.0	8.32
I32	13 Feb 2023	6	13.24	61.43	8.7	33.29	8.1	25.0	8.59
I32	13 Feb 2023	7	13.25	61.38	8.7	33.29	8.1	25.0	8.00
I32	13 Feb 2023	8	13.27	61.65	8.6	33.30	8.1	25.0	7.16
I32	13 Feb 2023	9	13.26	60.71	8.6	33.31	8.1	25.0	7.03
I32	13 Feb 2023	10	13.25	47.43	8.5	33.30	8.1	25.0	6.95
I32	21 Feb 2023	1	13.85	65.77	9.2	33.32	8.1	24.9	2.13
I32	21 Feb 2023	2	13.84	65.59	9.2	33.32	8.1	24.9	2.51
I32	21 Feb 2023	3	13.82	65.55	9.2	33.33	8.1	24.9	3.60
I32	21 Feb 2023	4	13.80	65.14	9.2	33.33	8.1	24.9	4.60
I32	21 Feb 2023	5	13.78	65.35	9.1	33.34	8.1	25.0	5.45
I32	21 Feb 2023	6	13.77	64.81	9.0	33.34	8.1	25.0	5.85
I32	21 Feb 2023	7	13.77	65.00	9.0	33.35	8.1	25.0	6.17
I32	21 Feb 2023	8	13.76	64.98	9.0	33.35	8.1	25.0	5.79
I32	21 Feb 2023	9	13.74	64.90	8.9	33.36	8.1	25.0	5.91
I32	21 Feb 2023	10	13.69	64.01	8.8	33.37	8.1	25.0	5.24
I32	27 Feb 2023	1	13.61	52.68	8.0	33.21	8.1	24.9	0.76
I32	27 Feb 2023	2	13.42	52.24	8.1	33.22	8.1	24.9	0.83
I32	27 Feb 2023	3	13.16	52.34	8.2	33.23	8.1	25.0	1.19
I32	27 Feb 2023	4	13.11	54.57	8.2	33.23	8.1	25.0	1.84
I32	27 Feb 2023	5	13.09	57.48	7.8	33.24	8.1	25.0	2.51
I32	27 Feb 2023	6	13.10	44.55	7.5	33.28	8.0	25.0	2.93
I32	27 Feb 2023	7	13.08	33.55	7.5	33.30	8.0	25.1	2.89
I32	27 Feb 2023	8	13.03	34.83	7.7	33.29	8.0	25.1	2.79
I32	27 Feb 2023	9	13.03	36.99	7.5	33.30	8.0	25.1	2.75
I32	27 Feb 2023	10	13.04	34.95	7.4	33.31	8.0	25.1	2.65
I39	10 Feb 2023	1	12.91	79.09	7.2	33.43	8.0	25.2	1.61
I39	10 Feb 2023	2	12.91	78.72	7.2	33.43	8.0	25.2	1.56
I39	10 Feb 2023	3	12.88	78.64	7.2	33.43	8.0	25.2	1.98
I39	10 Feb 2023	4	12.86	78.71	7.1	33.43	8.0	25.2	2.43
I39	10 Feb 2023	5	12.82	78.86	7.0	33.43	8.0	25.2	2.88
I39	10 Feb 2023	6	12.79	79.10	7.0	33.44	8.0	25.2	3.07
I39	10 Feb 2023	7	12.73	79.24	6.8	33.44	8.0	25.2	3.19
I39	10 Feb 2023	8	12.52	80.05	6.3	33.46	8.0	25.3	2.97
I39	10 Feb 2023	9	12.40	82.34	5.9	33.47	7.9	25.3	2.58
I39	10 Feb 2023	10	12.11	84.82	5.4	33.50	7.9	25.4	1.84
I39	10 Feb 2023	11	11.97	86.97	5.0	33.52	7.9	25.4	1.19
I39	10 Feb 2023	12	11.97	86.04	5.0	33.52	7.9	25.4	0.95
I39	10 Feb 2023	13	11.94	83.56	4.9	33.53	7.8	25.5	0.99
I39	10 Feb 2023	14	11.93	81.77	4.9	33.54	7.8	25.5	0.93
I39	10 Feb 2023	15	11.93	81.44	4.9	33.54	7.8	25.5	0.96
I39	10 Feb 2023	16	11.93	81.32	4.9	33.54	7.8	25.5	0.98
I39	10 Feb 2023	17	11.93	81.39	4.9	33.54	7.8	25.5	0.95
I39	10 Feb 2023	18	11.93	80.36	4.8	33.54	7.8	25.5	0.97
I39	13 Feb 2023	1	13.80	79.56	8.9	33.26	8.2	24.9	1.82
I39	13 Feb 2023	2	13.77	79.48	8.9	33.27	8.2	24.9	1.87
I39	13 Feb 2023	3	13.70	78.74	8.9	33.31	8.2	24.9	2.55
I39	13 Feb 2023	4	13.63	77.75	8.8	33.34	8.2	25.0	3.62
I39	13 Feb 2023	5	13.51	76.33	8.6	33.38	8.1	25.0	5.09
I39	13 Feb 2023	6	13.48	75.84	8.5	33.38	8.1	25.0	6.51
I39	13 Feb 2023	7	13.47	75.34	8.5	33.38	8.1	25.0	7.46
I39	13 Feb 2023	8	13.46	75.01	8.5	33.38	8.1	25.0	7.78

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I39	13 Feb 2023	9	13.46	73.86	8.5	33.38	8.1	25.0	7.99
I39	13 Feb 2023	10	13.45	72.14	8.5	33.38	8.1	25.0	7.93
I39	13 Feb 2023	11	13.44	70.84	8.4	33.38	8.1	25.0	7.35
I39	13 Feb 2023	12	13.41	70.27	8.3	33.39	8.1	25.1	7.10
I39	13 Feb 2023	13	13.40	66.81	8.3	33.39	8.1	25.1	7.13
I39	13 Feb 2023	14	13.40	66.08	8.3	33.39	8.1	25.1	6.77
I39	13 Feb 2023	15	13.38	65.45	8.2	33.40	8.1	25.1	6.14
I39	13 Feb 2023	16	13.36	65.34	8.2	33.40	8.1	25.1	6.11
I39	13 Feb 2023	17	13.36	64.69	8.2	33.40	8.1	25.1	6.28
I39	13 Feb 2023	18	13.36	63.78	8.1	33.40	8.1	25.1	5.85
I39	21 Feb 2023	1	13.79	70.08	9.0	33.30	8.1	24.9	1.79
I39	21 Feb 2023	2	13.78	69.90	9.0	33.30	8.1	24.9	1.95
I39	21 Feb 2023	3	13.74	70.27	9.0	33.31	8.1	24.9	2.77
I39	21 Feb 2023	4	13.61	69.93	8.7	33.34	8.1	25.0	3.63
I39	21 Feb 2023	5	13.19	73.33	8.0	33.41	8.1	25.1	3.68
I39	21 Feb 2023	6	12.99	80.30	7.2	33.42	8.0	25.2	3.44
I39	21 Feb 2023	7	12.82	81.69	6.7	33.44	8.0	25.2	2.92
I39	21 Feb 2023	8	12.80	81.15	6.5	33.44	7.9	25.2	2.68
I39	21 Feb 2023	9	12.75	80.62	6.4	33.45	7.9	25.2	2.46
I39	21 Feb 2023	10	12.74	79.31	6.3	33.45	7.9	25.2	2.49
I39	21 Feb 2023	11	12.71	79.05	6.2	33.46	7.9	25.3	2.30
I39	21 Feb 2023	12	12.69	78.94	6.2	33.46	7.9	25.3	2.23
I39	21 Feb 2023	13	12.70	78.70	6.2	33.46	7.9	25.3	2.27
I39	21 Feb 2023	14	12.69	78.97	6.1	33.46	7.9	25.3	2.37
I39	21 Feb 2023	15	12.67	78.54	6.0	33.46	7.9	25.3	2.07
I39	21 Feb 2023	16	12.59	78.57	5.9	33.48	7.9	25.3	2.14
I39	21 Feb 2023	17	12.45	78.36	5.7	33.49	7.9	25.3	2.10
I39	21 Feb 2023	18	12.41	79.90	5.6	33.49	7.8	25.3	1.69
I39	27 Feb 2023	1	13.69	59.03	8.3	33.20	8.1	24.9	0.68
I39	27 Feb 2023	2	13.37	57.51	8.3	33.21	8.1	24.9	0.85
I39	27 Feb 2023	3	13.19	57.45	8.4	33.20	8.1	25.0	1.30
I39	27 Feb 2023	4	13.10	55.57	8.4	33.20	8.1	25.0	2.11
I39	27 Feb 2023	5	13.08	54.41	8.3	33.22	8.1	25.0	2.81
I39	27 Feb 2023	6	13.08	55.38	8.2	33.24	8.1	25.0	3.17
I39	27 Feb 2023	7	13.10	56.81	8.1	33.29	8.1	25.0	3.20
I39	27 Feb 2023	8	13.09	60.69	8.1	33.32	8.1	25.1	2.97
I39	27 Feb 2023	9	13.07	64.92	8.1	33.33	8.1	25.1	2.68
I39	27 Feb 2023	10	13.07	68.18	8.1	33.33	8.1	25.1	2.56
I39	27 Feb 2023	11	13.08	69.60	8.0	33.34	8.1	25.1	2.56
I39	27 Feb 2023	12	13.08	71.04	8.0	33.35	8.1	25.1	2.37
I39	27 Feb 2023	13	13.08	72.06	7.9	33.35	8.1	25.1	2.25
I39	27 Feb 2023	14	13.07	71.98	7.9	33.35	8.1	25.1	2.13
I39	27 Feb 2023	15	13.07	69.97	7.9	33.35	8.0	25.1	2.19
I39	27 Feb 2023	16	13.07	69.57	7.9	33.35	8.0	25.1	2.18
I39	27 Feb 2023	17	13.07	69.56	7.9	33.35	8.0	25.1	2.33
I39	27 Feb 2023	18	13.07	68.51	7.8	33.35	8.0	25.1	2.25
I40	10 Feb 2023	1	12.36	54.36	6.7	33.39	7.9	25.3	0.86
I40	10 Feb 2023	2	12.35	53.71	6.7	33.39	7.9	25.3	0.94
I40	10 Feb 2023	3	12.34	53.59	6.6	33.39	7.9	25.3	1.32
I40	10 Feb 2023	4	12.32	53.23	6.6	33.40	7.9	25.3	1.58
I40	10 Feb 2023	5	12.30	53.79	6.5	33.40	7.9	25.3	1.99
I40	10 Feb 2023	6	12.31	53.81	6.5	33.40	7.9	25.3	2.13
I40	10 Feb 2023	7	12.30	53.68	6.5	33.40	7.9	25.3	2.01
I40	10 Feb 2023	8	12.30	53.24	6.4	33.42	7.9	25.3	2.16
I40	10 Feb 2023	9	12.31	50.83	6.1	33.45	7.9	25.3	2.10
I40	10 Feb 2023	10	12.30	34.83	5.8	33.47	7.9	25.3	2.34
I40	13 Feb 2023	1	13.74	27.39	9.2	32.84	8.1	24.6	3.56

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I40	13 Feb 2023	2	13.54	27.00	9.2	33.00	8.1	24.7	4.59
I40	13 Feb 2023	3	13.63	24.64	9.2	32.97	8.2	24.7	5.69
I40	13 Feb 2023	4	13.46	28.11	9.1	33.32	8.2	25.0	7.77
I40	13 Feb 2023	5	13.50	42.78	8.9	33.38	8.1	25.0	9.41
I40	13 Feb 2023	6	13.45	56.71	8.8	33.39	8.1	25.1	9.28
I40	13 Feb 2023	7	13.44	57.33	8.8	33.38	8.1	25.1	8.64
I40	13 Feb 2023	8	13.44	57.89	8.7	33.39	8.1	25.1	8.10
I40	13 Feb 2023	9	13.45	59.17	8.7	33.39	8.1	25.1	7.56
I40	13 Feb 2023	10	13.45	59.96	8.7	33.39	8.1	25.1	7.51
I40	21 Feb 2023	1	13.88	69.85	9.4	33.36	8.1	24.9	1.91
I40	21 Feb 2023	2	13.83	69.73	9.4	33.36	8.1	25.0	2.45
I40	21 Feb 2023	3	13.82	69.75	9.4	33.36	8.1	25.0	3.04
I40	21 Feb 2023	4	13.78	69.46	9.4	33.36	8.1	25.0	4.16
I40	21 Feb 2023	5	13.77	68.99	9.4	33.36	8.1	25.0	4.86
I40	21 Feb 2023	6	13.72	69.04	9.4	33.36	8.1	25.0	5.94
I40	21 Feb 2023	7	13.62	68.80	9.1	33.37	8.1	25.0	6.22
I40	21 Feb 2023	8	13.51	66.85	8.8	33.37	8.1	25.0	6.17
I40	21 Feb 2023	9	13.50	63.90	8.7	33.37	8.1	25.0	6.16
I40	21 Feb 2023	10	13.47	61.52	8.5	33.37	8.1	25.0	5.63
I40	27 Feb 2023	1	13.64	38.90	7.9	33.13	8.0	24.8	0.80
I40	27 Feb 2023	2	13.25	37.87	7.9	33.23	8.0	25.0	1.10
I40	27 Feb 2023	3	13.14	36.55	7.8	33.27	8.0	25.0	1.71
I40	27 Feb 2023	4	13.12	38.27	7.5	33.32	8.0	25.1	2.11
I40	27 Feb 2023	5	13.09	41.33	7.4	33.34	8.0	25.1	2.32
I40	27 Feb 2023	6	13.06	41.45	7.4	33.34	8.0	25.1	2.32
I40	27 Feb 2023	7	13.05	41.04	7.3	33.35	8.0	25.1	2.35
I40	27 Feb 2023	8	13.06	35.85	7.2	33.35	8.0	25.1	2.47
I40	27 Feb 2023	9	13.07	26.78	7.0	33.35	8.0	25.1	2.76

NA = not available

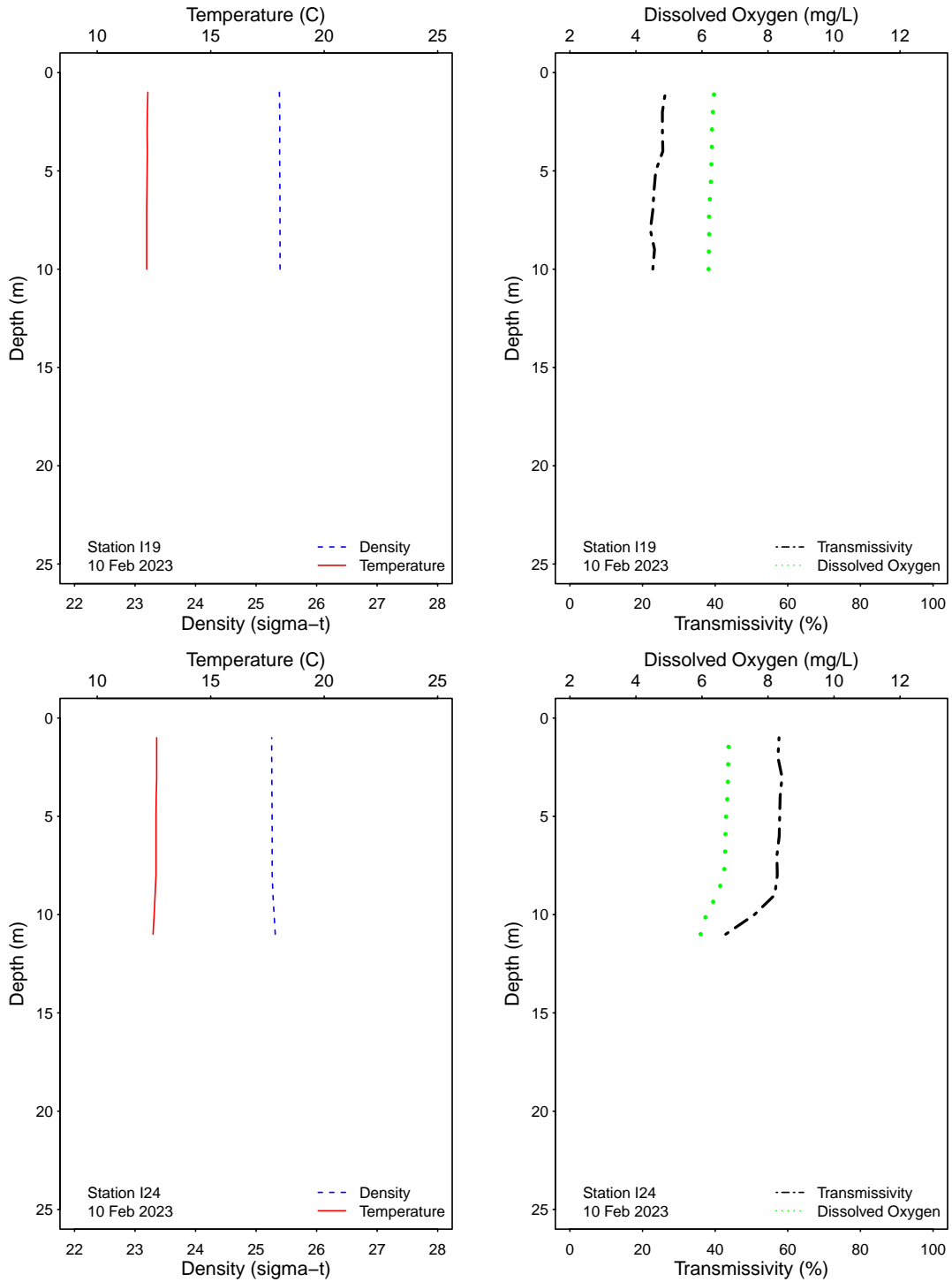


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

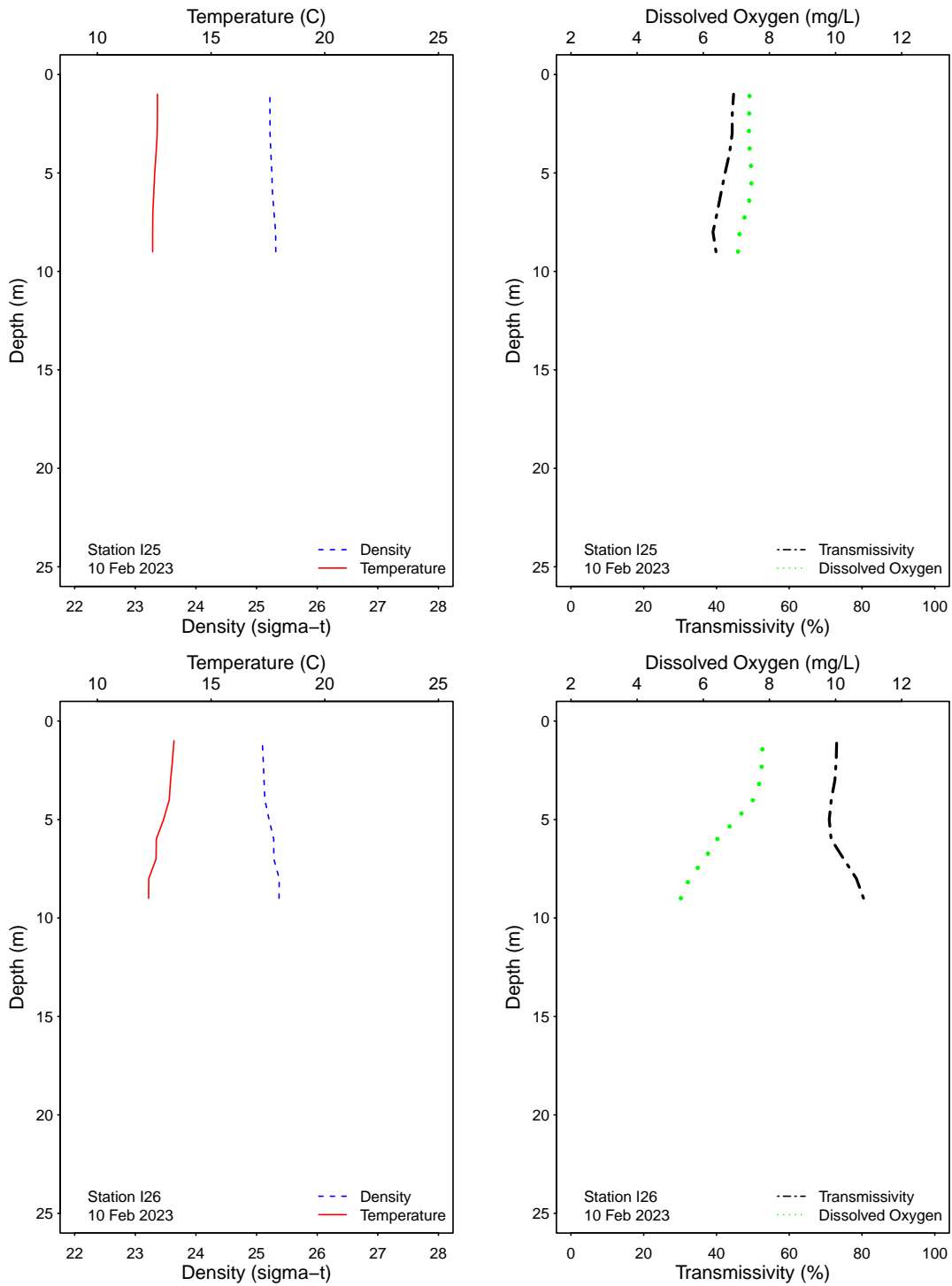


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

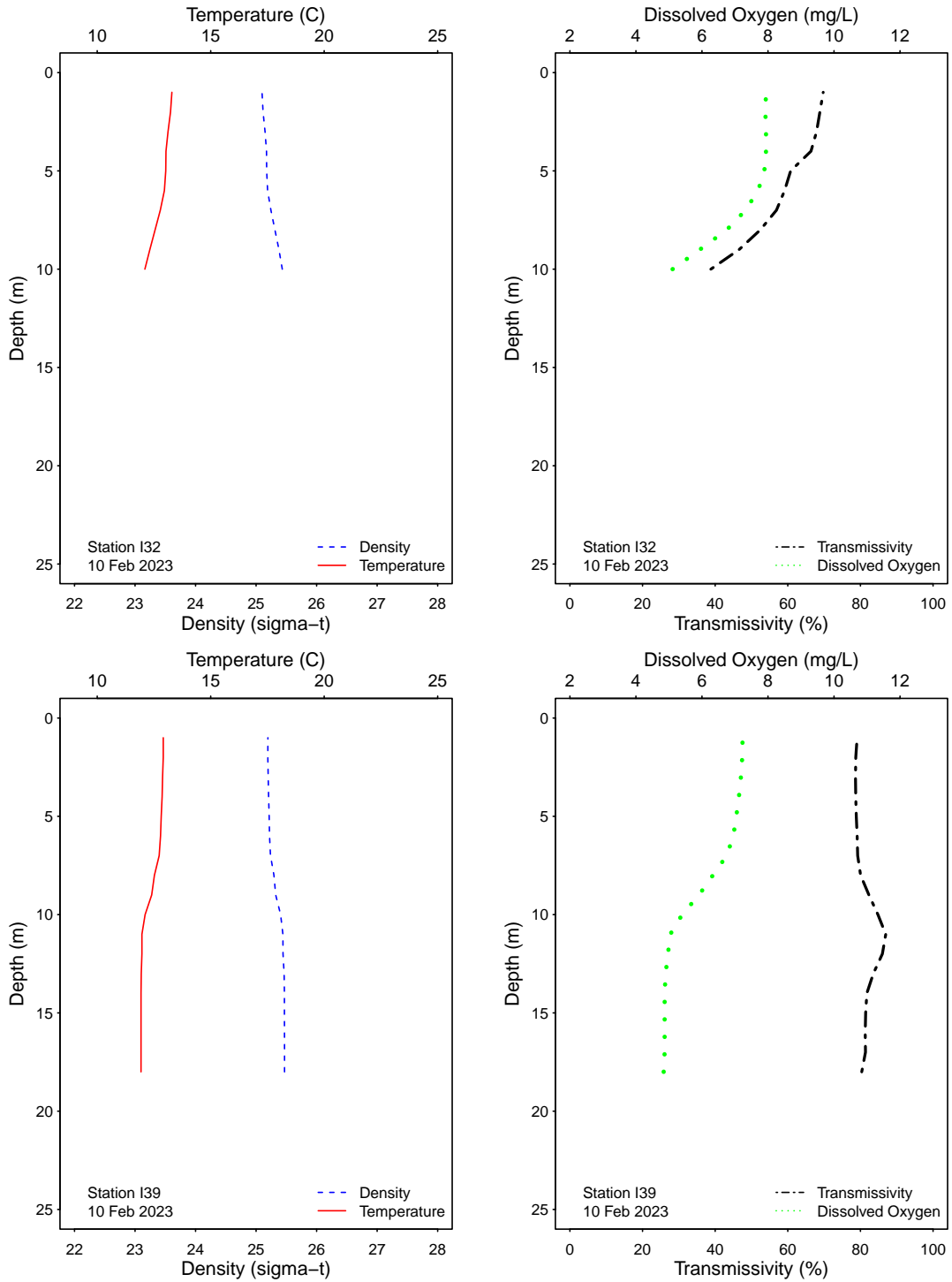


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

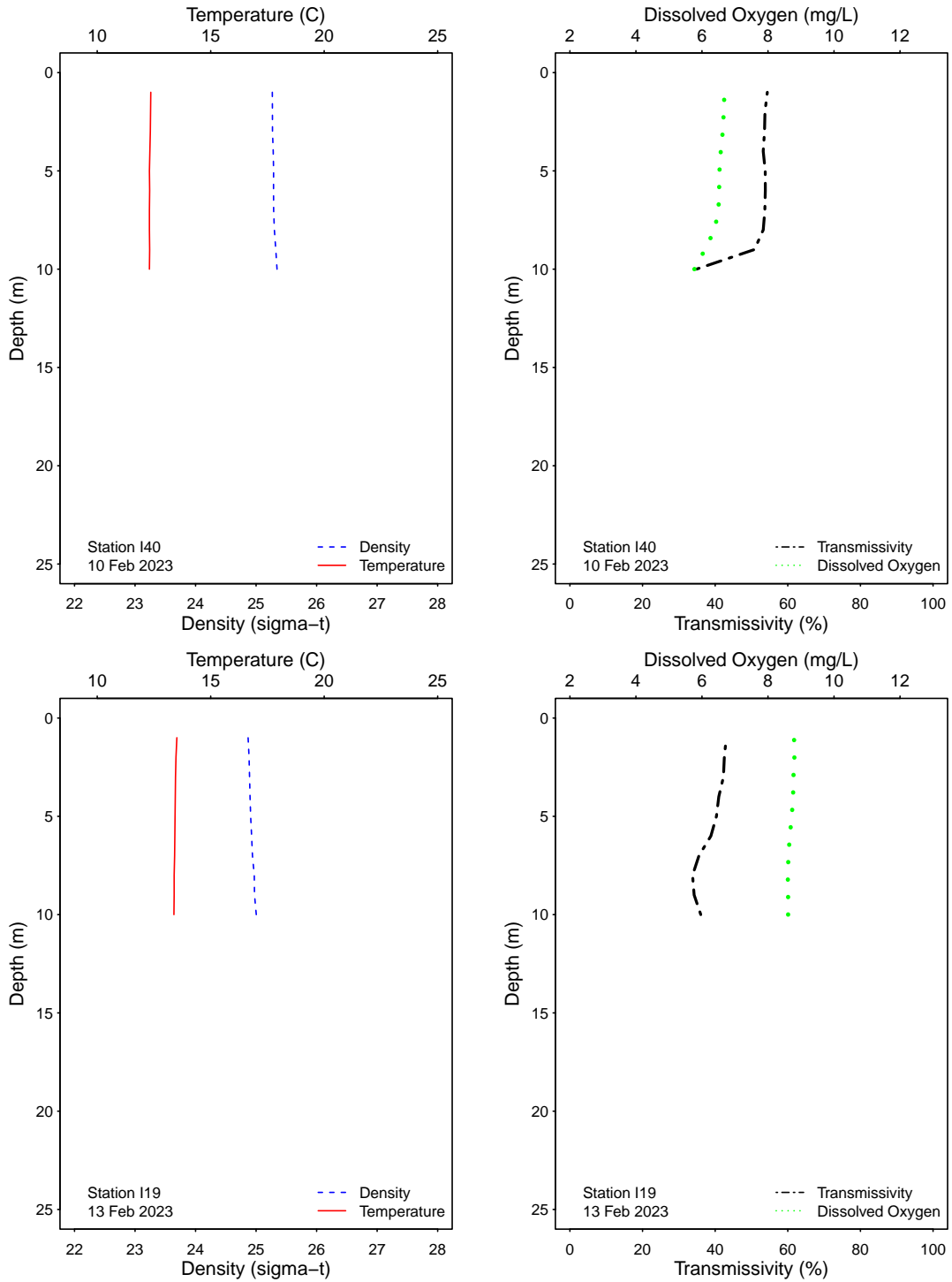


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

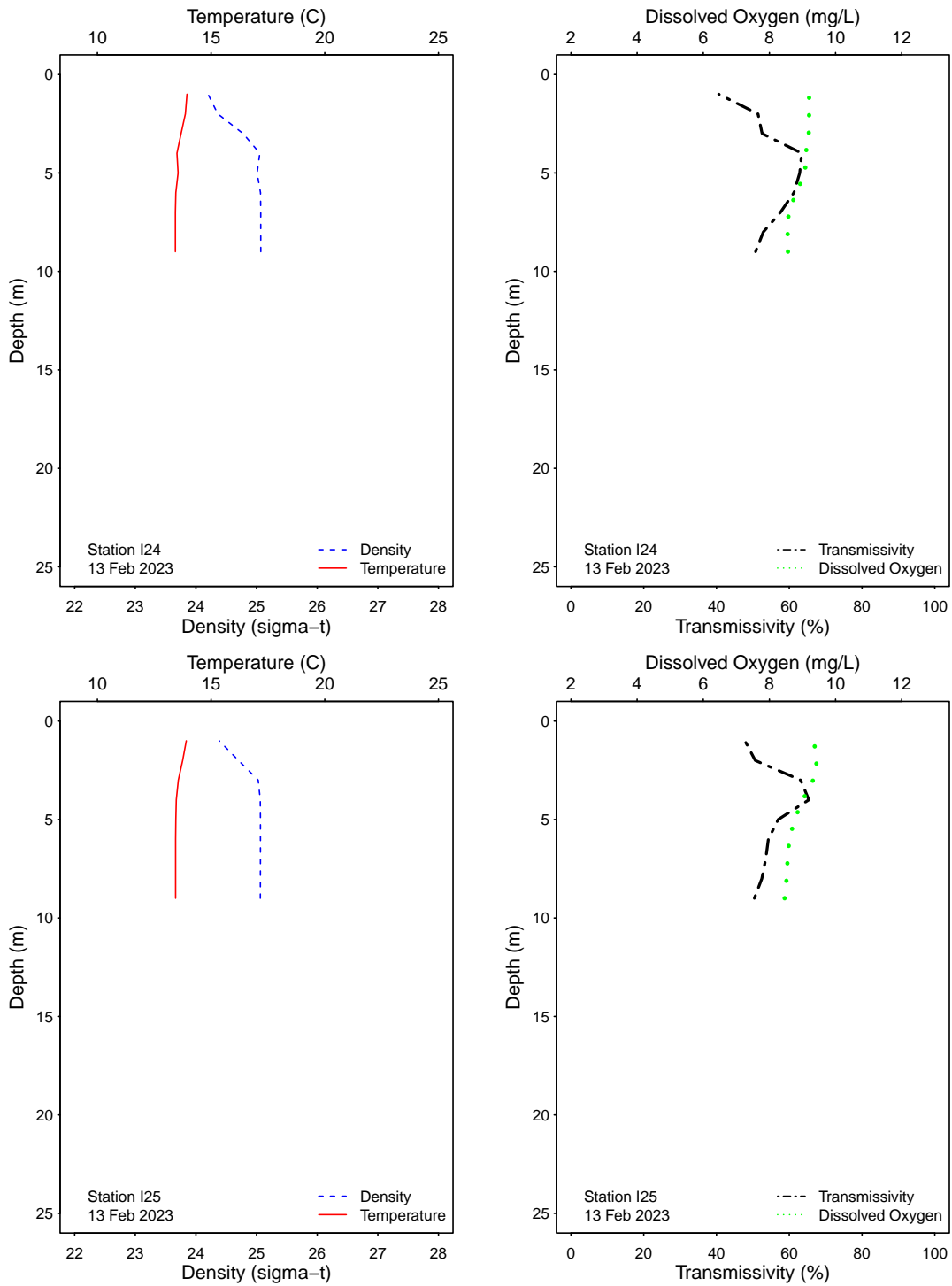


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

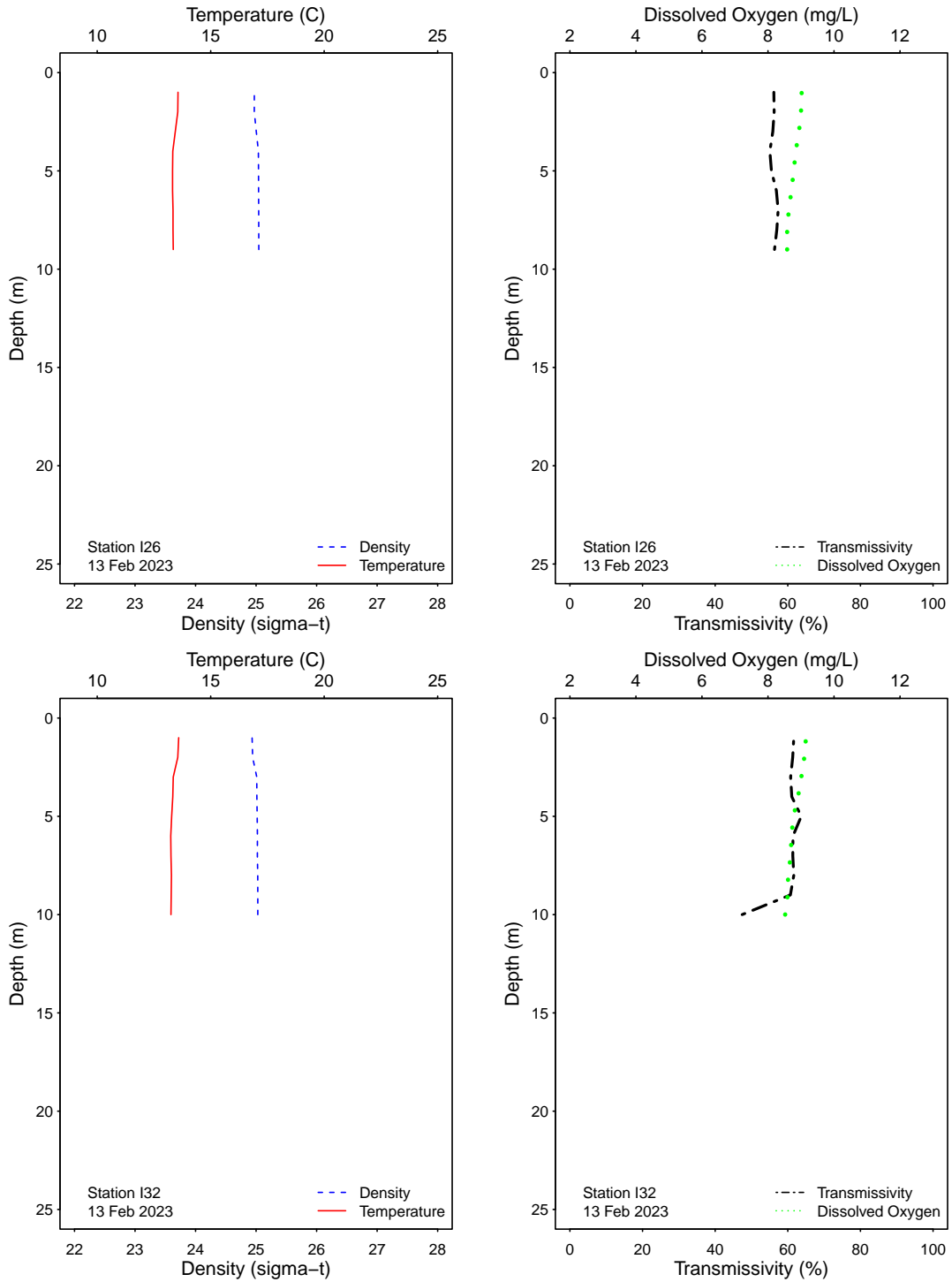


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

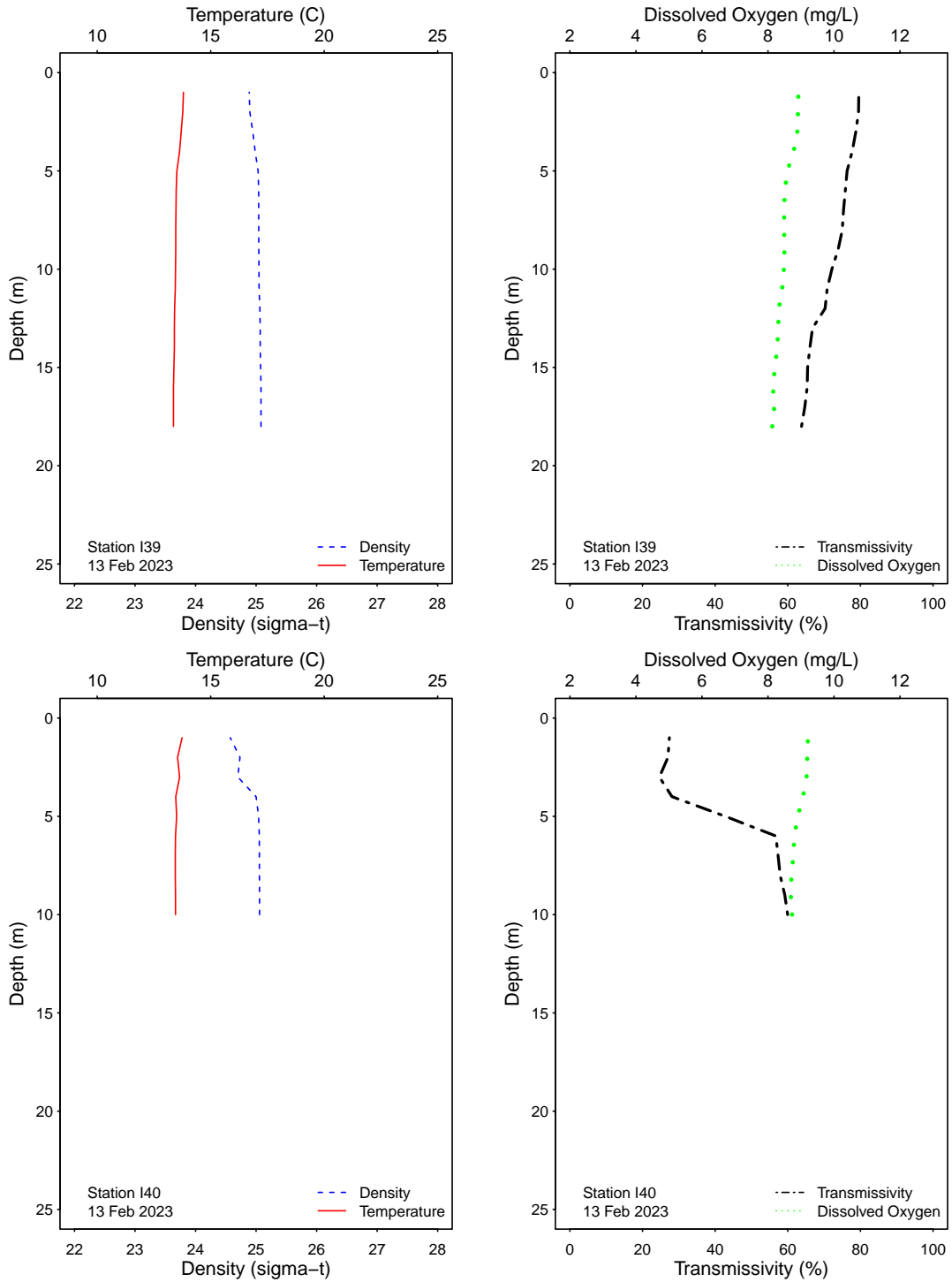


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

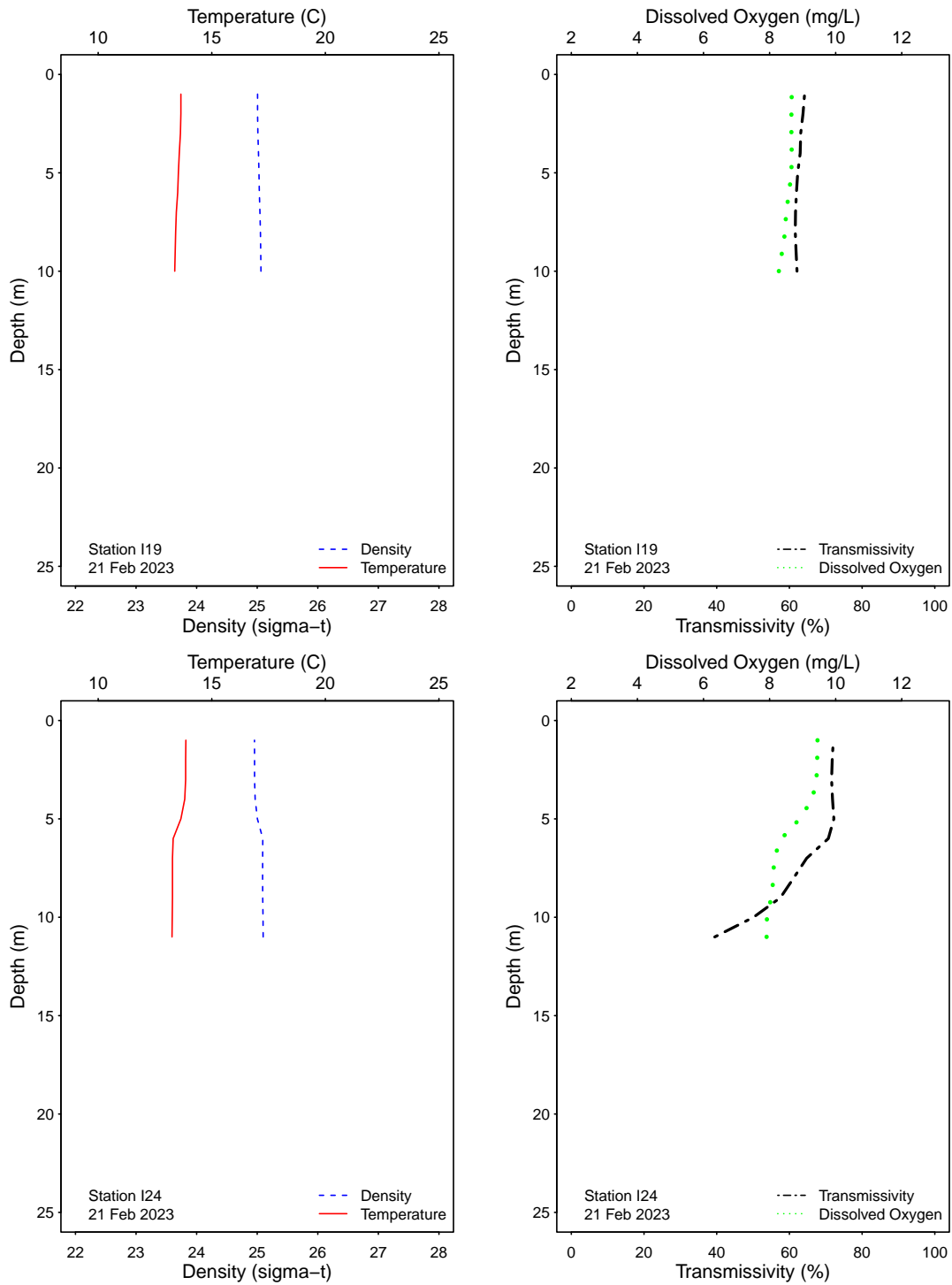


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

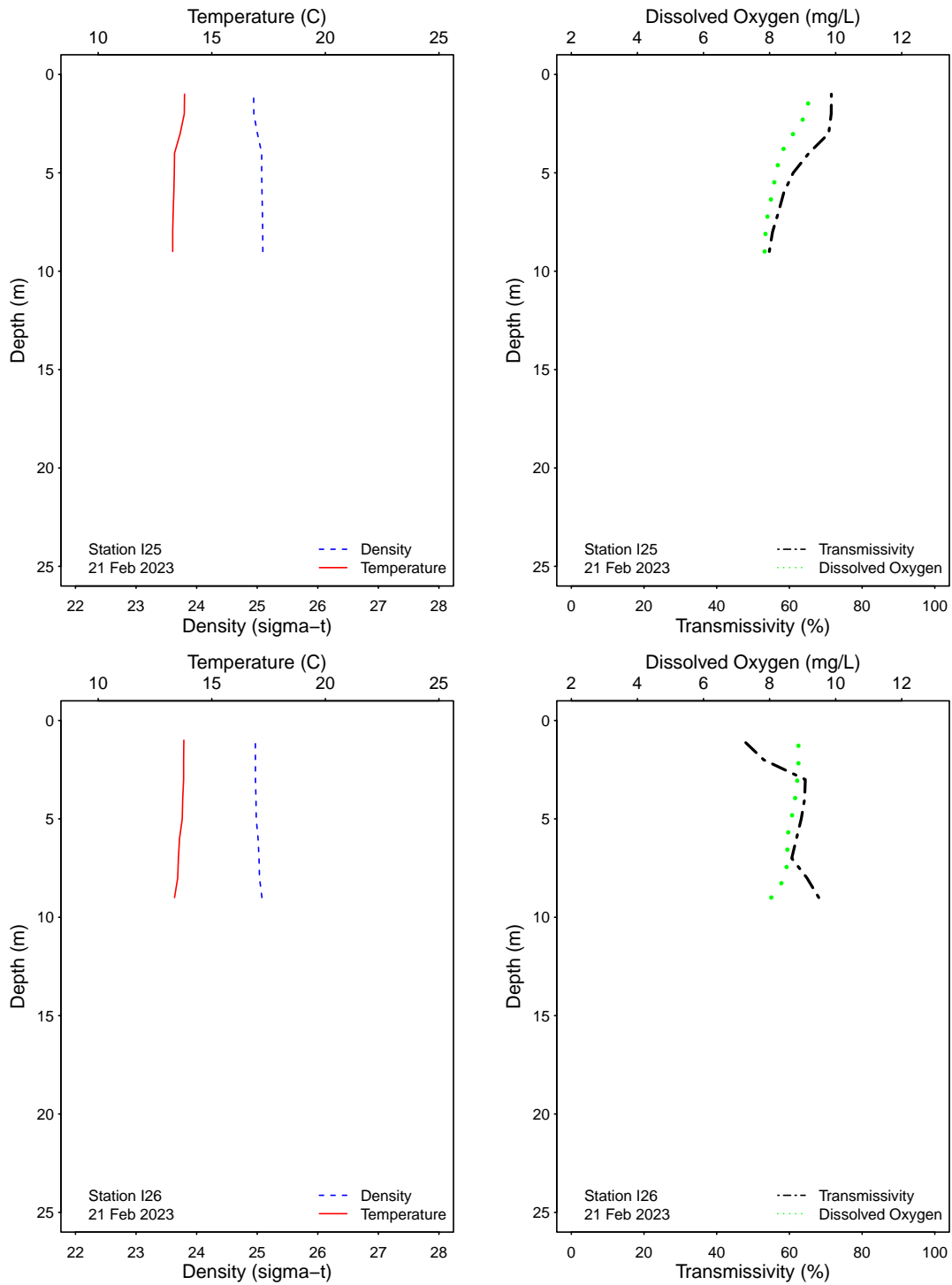


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

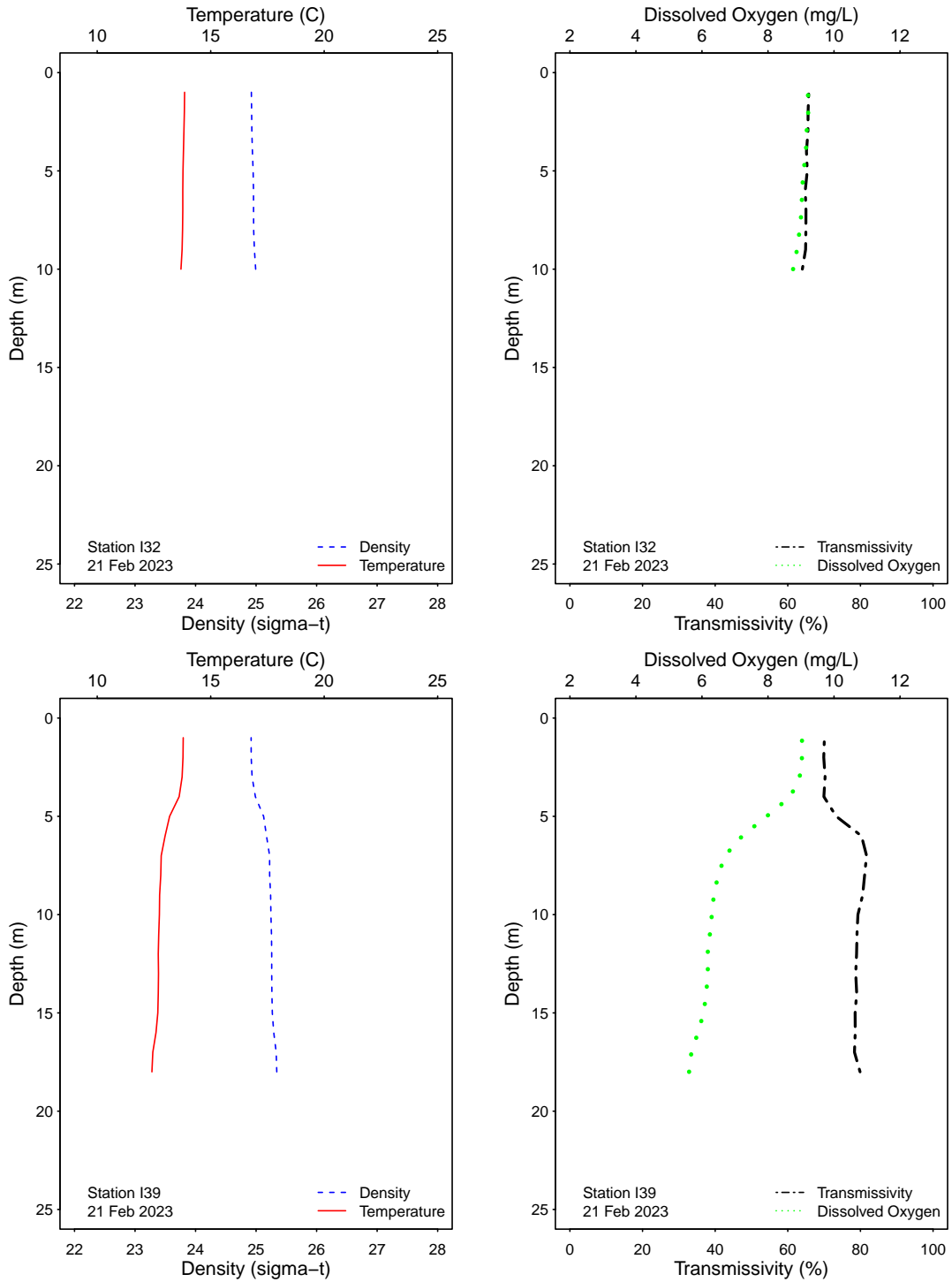


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

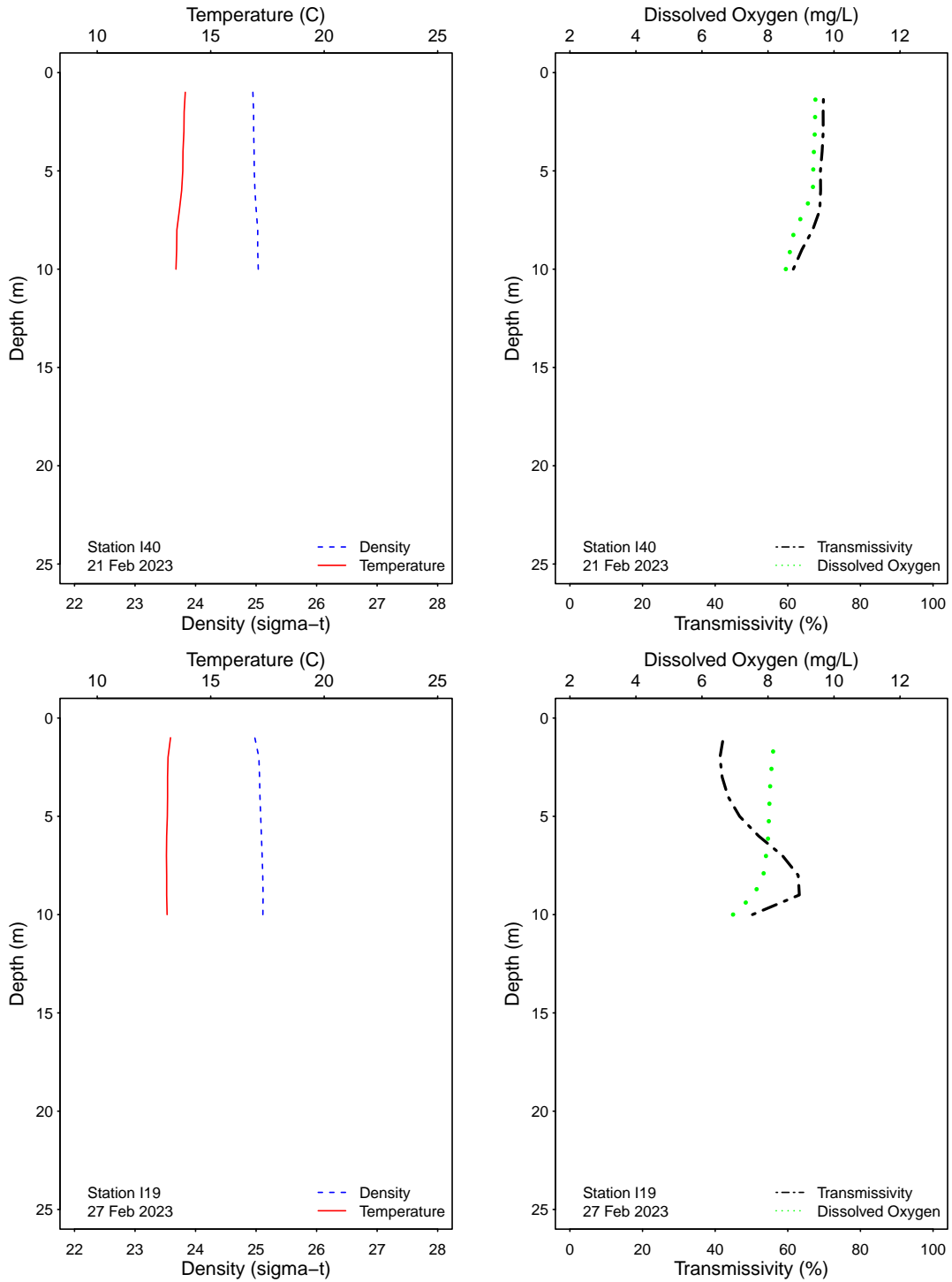


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

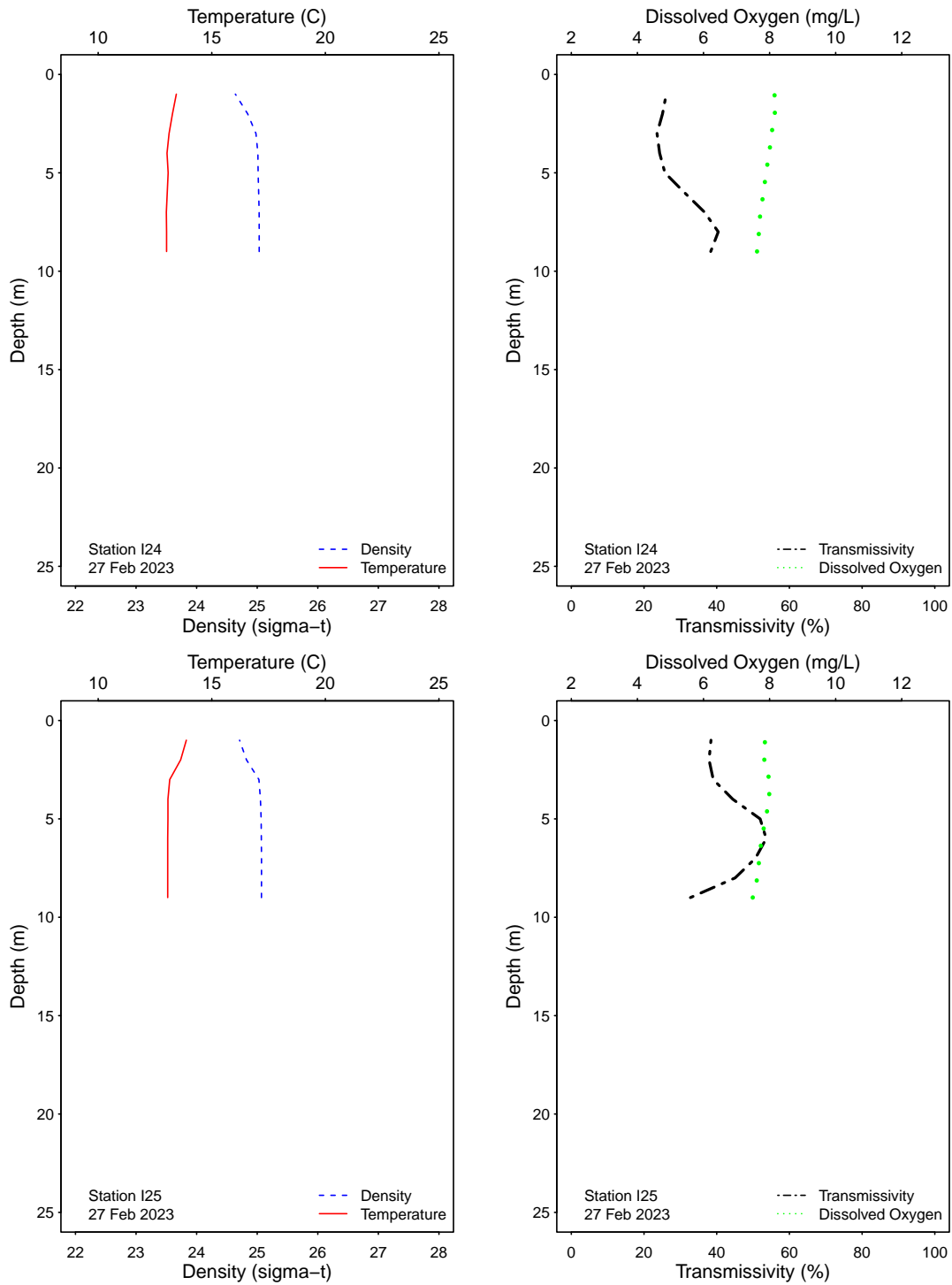


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

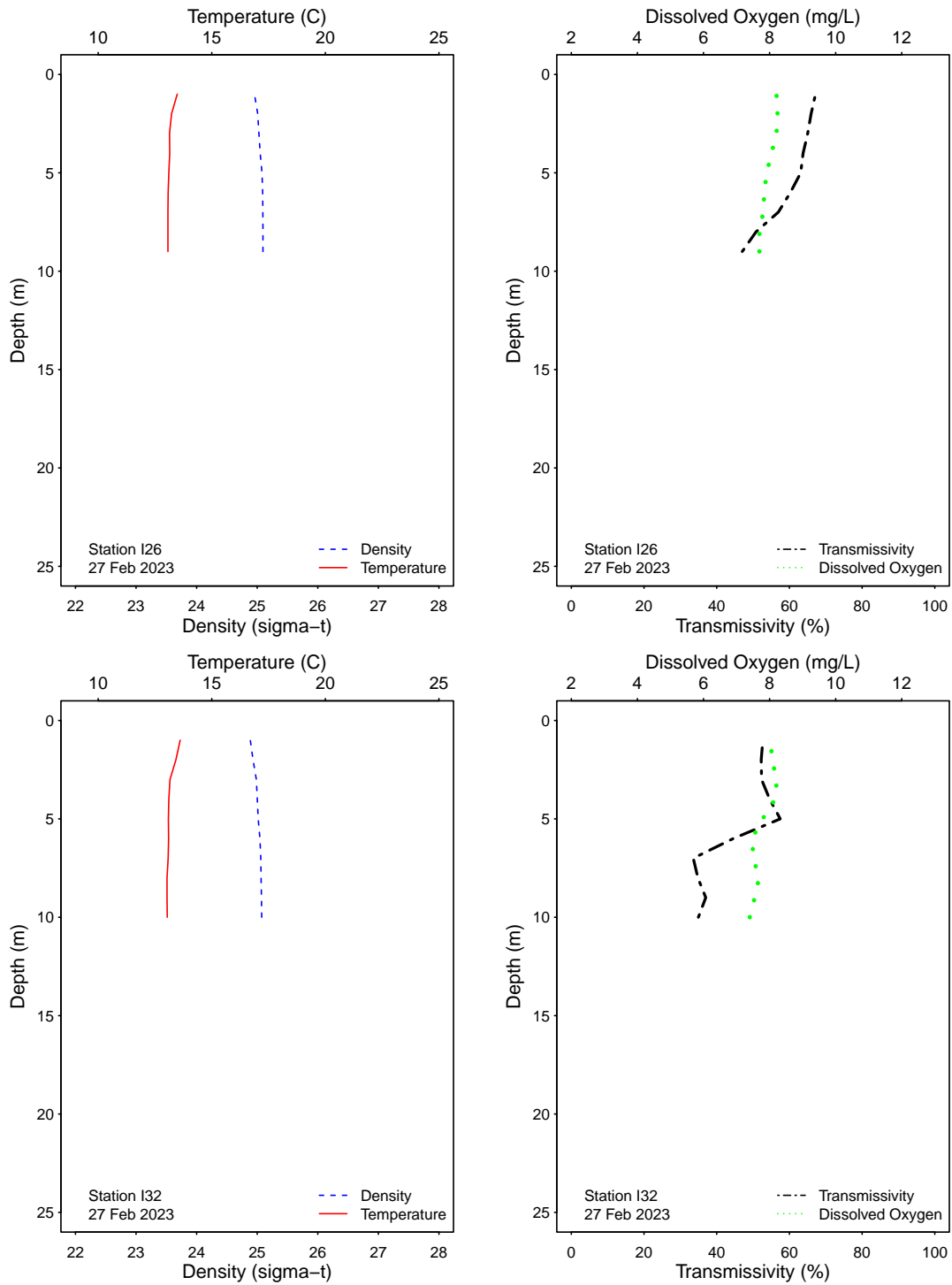


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

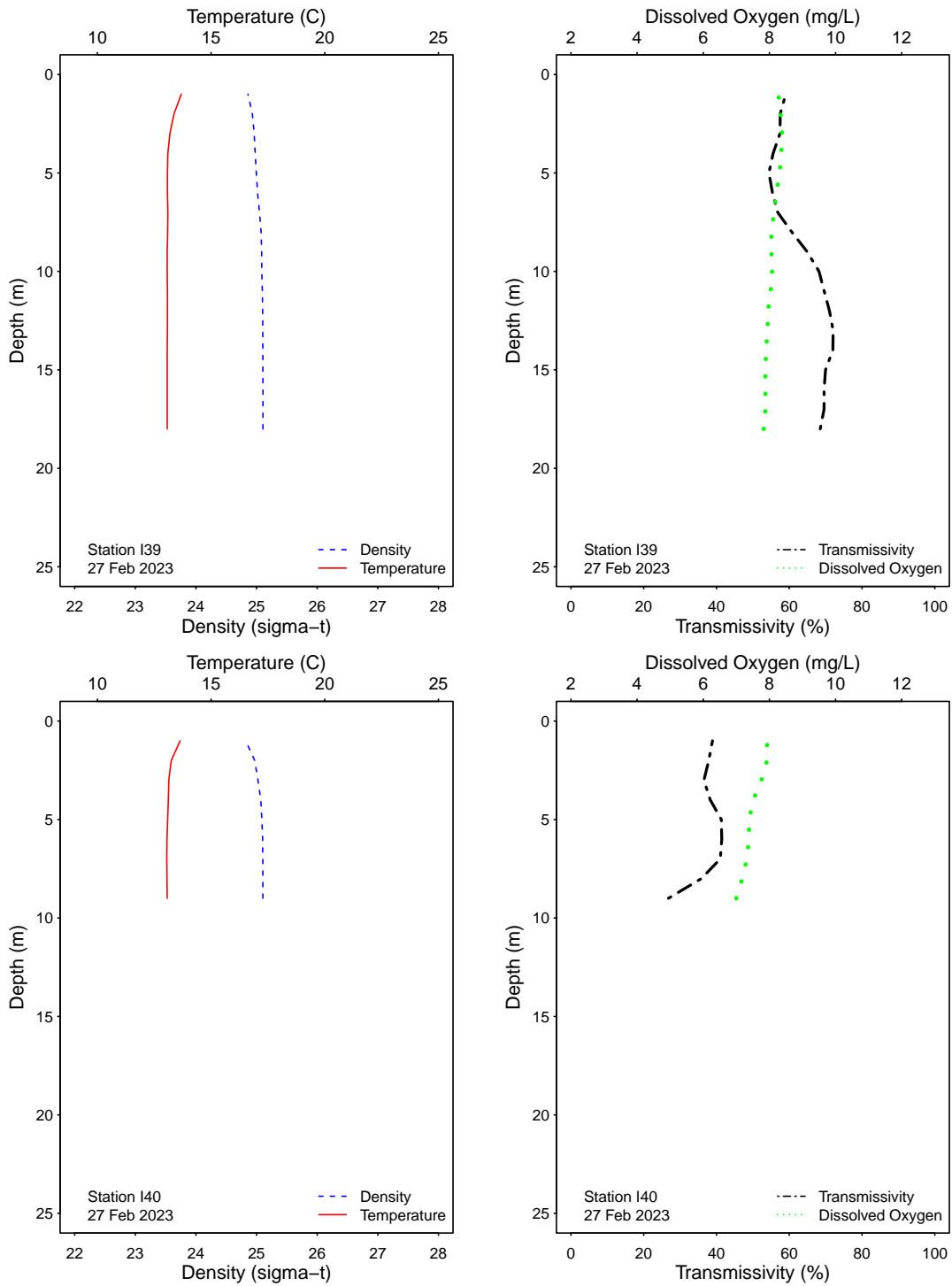


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

Offshore Stations

Table 4.1

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

Date	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
08 Feb 2023	IC	IC	IC	E	IC	E	ns	ns	ns	ns
09 Feb 2023	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 4.2

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

Date	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
February	IC	IC	IC	E	IC	IC	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 Statistical Threshold Value standard for total coliform bacteria at the SBOO offshore stations within State jurisdictional waters. Total coliform density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	I12		I14		I16		I18		I22		I23		I33		I36		I37		I38		
	2m	18m	2m	18m	2m	18m	2m	12m	18m	2m	18m	2m	12m	2m	18m	2m	6m	11m	2m	6m	11m
February	IC	IC	IC	E	IC	E	E	E	IC	IC	E	E	E	E	E	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 4.4

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

Station	Date	Time	Depth	Total	Fecal	Entero	Temp	XMS	DO	Sal	pH
I10	07 Feb 2023	1136	2	<2	<2	<2	14.0	72.16	8.2	33.30	8.0
I10	07 Feb 2023	1136	12	14e	<2	<2	12.3	79.07	5.4	33.48	7.8
I10	07 Feb 2023	1136	18	30e	6e	24e	12.0	61.47	5.0	33.52	7.7
I11	07 Feb 2023	1123	2	2600e	340e	54	14.1	70.46	8.3	33.29	8.0
I11	07 Feb 2023	1123	6	>16000	2600e	480	13.1	54.93	6.9	33.34	7.9
I11	07 Feb 2023	1123	11	1600e	110	64	12.1	43.05	5.0	33.51	7.8
I12	08 Feb 2023	1056	2	<2	<2	<2	14.0	83.33	8.2	33.30	8.1
I12	08 Feb 2023	1056	18	80e	26e	<2	11.9	88.83	5.0	33.53	7.8
I12	08 Feb 2023	1056	27	240e	22e	<2	11.8	86.28	4.8	33.57	7.8
I13	08 Feb 2023	1115	2	<2	<2	<2	14.2	87.15	8.5	33.30	8.1
I13	08 Feb 2023	1115	18	14e	<2	<2	12.1	90.67	5.4	33.45	7.9
I13	08 Feb 2023	1115	37	28e	10e	<2	11.7	91.16	4.6	33.59	7.8
I14	08 Feb 2023	1132	2	<2	<2	<2	13.9	83.53	8.4	33.30	8.1
I14	08 Feb 2023	1132	18	300e	28e	2e	12.0	90.66	5.2	33.52	7.9
I14	08 Feb 2023	1132	27	160e	22e	<2	11.8	86.36	4.7	33.58	7.8
I16	08 Feb 2023	1046	2	24e	<2	<2	14.0	83.74	8.2	33.30	8.1
I16	08 Feb 2023	1046	18	260e	20e	4e	12.2	90.08	5.5	33.47	7.9
I16	08 Feb 2023	1046	27	180e	26e	2e	11.8	85.89	4.7	33.57	7.8
I18	08 Feb 2023	1028	2	5400	2200e	360e	13.3	68.61	7.6	33.35	8.0
I18	08 Feb 2023	1028	12	>16000	2600e	360e	12.7	69.62	6.5	33.41	7.9
I18	08 Feb 2023	1028	18	700	60	6e	11.8	84.90	4.7	33.58	7.8
I20	08 Feb 2023	906	2	8e	<2	2e	14.0	86.57	8.5	33.28	8.1
I20	08 Feb 2023	906	18	18e	<2	<2	12.9	91.31	6.2	33.40	7.9
I20	08 Feb 2023	906	55	2800e	880	78	11.3	91.06	4.1	33.68	7.8
I21	08 Feb 2023	923	2	<2	<2	<2	13.8	86.84	8.2	33.30	8.1
I21	08 Feb 2023	923	18	4e	<2	<2	12.5	91.45	5.8	33.43	7.9
I21	08 Feb 2023	923	37	280e	26e	4e	11.6	91.89	4.5	33.61	7.8
I22	08 Feb 2023	1002	2	<2	<2	<2	13.9	84.01	8.3	33.30	8.1
I22	08 Feb 2023	1002	18	130	48	<2	12.2	89.86	5.6	33.47	7.9
I22	08 Feb 2023	1002	27	580	78	4e	11.7	85.68	4.6	33.59	7.8
I23	08 Feb 2023	1016	2	1400	84	12e	13.3	62.33	7.5	33.39	8.0
I23	08 Feb 2023	1016	12	6200	420	54	13.1	68.70	7.2	33.39	8.0
I23	08 Feb 2023	1016	18	2600e	120e	54	12.9	71.66	6.7	33.42	8.0
I3	07 Feb 2023	1021	2	<2	<2	<2	13.8	85.96	7.8	33.32	8.0
I3	07 Feb 2023	1021	18	10e	2e	<2	12.4	85.69	5.5	33.47	7.8
I3	07 Feb 2023	1021	27	24e	<2	2e	12.4	71.99	5.5	33.47	7.8
I30	09 Feb 2023	902	2	2e	<2	<2	13.6	79.48	8.3	33.32	8.1
I30	09 Feb 2023	902	18	14e	2e	<2	12.6	86.30	6.1	33.45	8.0
I30	09 Feb 2023	902	27	880	180e	20e	11.6	85.54	4.6	33.59	7.8

Station	Date	Time	Depth	Total	Fecal	Entero	Temp	XMS	DO	Sal	pH
I33	09 Feb 2023	808	2	2e	<2	<2	13.7	84.10	8.2	33.32	8.1
I33	09 Feb 2023	808	18	520	52	12e	12.1	89.43	5.0	33.51	7.8
I33	09 Feb 2023	808	27	2400e	160e	32e	11.5	77.69	4.3	33.63	7.8
I36	09 Feb 2023	940	2	<20	<2	<2	13.6	77.45	7.9	33.34	8.1
I36	09 Feb 2023	940	6	<20	<2	<2	12.4	62.38	6.1	33.48	7.9
I36	09 Feb 2023	940	11	60e	20e	2e	12.0	19.29	4.6	33.54	7.8
I37	09 Feb 2023	746	2	12e	2e	2e	13.6	78.68	7.6	33.24	8.0
I37	09 Feb 2023	746	6	24e	<2	<2	13.6	80.03	7.6	33.25	8.0
I37	09 Feb 2023	746	11	120	6e	<2	12.2	81.97	5.0	33.52	7.9
I38	09 Feb 2023	1012	2	<2	<2	<2	13.8	78.45	8.2	33.31	8.1
I38	09 Feb 2023	1012	6	<2	2e	<2	12.6	73.95	5.7	33.45	7.9
I38	09 Feb 2023	1012	11	40e	6e	2e	12.2	49.35	4.9	33.51	7.8
15	07 Feb 2023	1046	2	1200	52	<2	13.8	75.77	8.2	33.30	8.0
15	07 Feb 2023	1046	6	1000	86	56	13.6	52.67	7.8	33.32	8.0
15	07 Feb 2023	1046	11	1800e	200e	100	12.9	41.24	7.1	33.40	7.8
17	07 Feb 2023	903	2	<2	<2	<2	14.2	88.81	8.0	33.32	8.0
17	07 Feb 2023	903	18	<2	<2	<2	14.2	89.79	8.3	33.32	8.0
17	07 Feb 2023	903	52	<2	<2	<2	11.8	89.94	4.6	33.59	7.7
18	07 Feb 2023	1204	2	<2	<2	<2	14.3	88.45	8.4	33.30	8.0
18	07 Feb 2023	1204	18	2e	<2	<2	12.7	91.82	5.9	33.43	7.8
18	07 Feb 2023	1204	37	<2	<2	<2	12.1	84.11	5.1	33.52	7.8
19	07 Feb 2023	1150	2	<2	<2	<2	14.0	87.68	8.4	33.30	8.0
19	07 Feb 2023	1150	18	2e	<2	2e	12.2	90.43	5.4	33.47	7.8
19	07 Feb 2023	1150	27	6e	<2	2e	12.1	82.58	5.1	33.51	7.8

ns = not sampled
ND = no data

Table 4.5

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

Station	Date	Parameter	Value
I1	07 Feb 2023	Depth (m)	62
I1	07 Feb 2023	Arrive Time	932
I1	07 Feb 2023	Depart Time	948
I1	07 Feb 2023	Air Temp (C)	13.3
I1	07 Feb 2023	Weather	Clear
I1	07 Feb 2023	Visibility (mi)	12
I1	07 Feb 2023	Wind Speed (kts)	4
I1	07 Feb 2023	Wind Dir	N
I1	07 Feb 2023	Water Color	Greenish-Blue
I1	07 Feb 2023	Wave Ht Low (ft)	4
I1	07 Feb 2023	Wave Period (sec)	10
I1	07 Feb 2023	Sea State	Rough
I1	07 Feb 2023	High Tide (ft)	5.4
I1	07 Feb 2023	High Tide Time	930
I1	07 Feb 2023	Low Tide (ft)	-0.38
I1	07 Feb 2023	Low Tide Time	1612
I1	07 Feb 2023	Comments	OA 1m Btl# Nsk# 4;OA 30m Btl# Nsk# 3;OA 60m Btl# Nsk# 2;OA 60m-dup Btl# Nsk# 2
I10	07 Feb 2023	Depth (m)	22
I10	07 Feb 2023	Arrive Time	1136
I10	07 Feb 2023	Depart Time	1141
I10	07 Feb 2023	Air Temp (C)	14.7
I10	07 Feb 2023	Weather	Clear
I10	07 Feb 2023	Visibility (mi)	12
I10	07 Feb 2023	Wind Speed (kts)	8.8
I10	07 Feb 2023	Wind Dir	NW
I10	07 Feb 2023	Water Color	Greenish-Blue
I10	07 Feb 2023	Wave Ht Low (ft)	4
I10	07 Feb 2023	Wave Period (sec)	10
I10	07 Feb 2023	Sea State	Regular Swell
I10	07 Feb 2023	High Tide (ft)	5.4
I10	07 Feb 2023	High Tide Time	930
I10	07 Feb 2023	Low Tide (ft)	-0.38
I10	07 Feb 2023	Low Tide Time	1612
I10	07 Feb 2023	Comments	none
I11	07 Feb 2023	Depth (m)	14
I11	07 Feb 2023	Arrive Time	1123
I11	07 Feb 2023	Depart Time	1129
I11	07 Feb 2023	Air Temp (C)	14.5
I11	07 Feb 2023	Weather	Clear
I11	07 Feb 2023	Visibility (mi)	12
I11	07 Feb 2023	Wind Speed (kts)	11.2
I11	07 Feb 2023	Wind Dir	NW
I11	07 Feb 2023	Water Color	Greenish-Blue
I11	07 Feb 2023	Wave Ht Low (ft)	4
I11	07 Feb 2023	Wave Period (sec)	10
I11	07 Feb 2023	Sea State	Regular Swell
I11	07 Feb 2023	High Tide (ft)	5.4
I11	07 Feb 2023	High Tide Time	930
I11	07 Feb 2023	Low Tide (ft)	-0.38
I11	07 Feb 2023	Low Tide Time	1612
I11	07 Feb 2023	Comments	none
I12	08 Feb 2023	Depth (m)	29

Station	Date	Parameter	Value
I12	08 Feb 2023	Arrive Time	1056
I12	08 Feb 2023	Depart Time	1059
I12	08 Feb 2023	Air Temp (C)	14.8
I12	08 Feb 2023	Weather	Haze
I12	08 Feb 2023	Visibility (mi)	10
I12	08 Feb 2023	Wind Speed (kts)	4.8
I12	08 Feb 2023	Wind Dir	NW
I12	08 Feb 2023	Water Color	Greenish-Blue
I12	08 Feb 2023	Wave Ht Low (ft)	3.3
I12	08 Feb 2023	Wave Period (sec)	11
I12	08 Feb 2023	Sea State	Light Chop
I12	08 Feb 2023	High Tide (ft)	5.03
I12	08 Feb 2023	High Tide Time	954
I12	08 Feb 2023	Low Tide (ft)	-0.08
I12	08 Feb 2023	Low Tide Time	1642
I12	08 Feb 2023	Comments	none
I13	08 Feb 2023	Depth (m)	39
I13	08 Feb 2023	Arrive Time	1118
I13	08 Feb 2023	Depart Time	1121
I13	08 Feb 2023	Air Temp (C)	14.9
I13	08 Feb 2023	Weather	Haze
I13	08 Feb 2023	Visibility (mi)	10
I13	08 Feb 2023	Wind Speed (kts)	3
I13	08 Feb 2023	Wind Dir	NW
I13	08 Feb 2023	Water Color	Blueish-Green
I13	08 Feb 2023	Wave Ht Low (ft)	3.3
I13	08 Feb 2023	Wave Period (sec)	11
I13	08 Feb 2023	Sea State	Light Chop
I13	08 Feb 2023	High Tide (ft)	5.03
I13	08 Feb 2023	High Tide Time	954
I13	08 Feb 2023	Low Tide (ft)	-0.08
I13	08 Feb 2023	Low Tide Time	1642
I13	08 Feb 2023	Comments	none
I14	08 Feb 2023	Depth (m)	29
I14	08 Feb 2023	Arrive Time	1132
I14	08 Feb 2023	Depart Time	1139
I14	08 Feb 2023	Air Temp (C)	14.8
I14	08 Feb 2023	Weather	Haze
I14	08 Feb 2023	Visibility (mi)	10
I14	08 Feb 2023	Wind Speed (kts)	4.8
I14	08 Feb 2023	Wind Dir	NW
I14	08 Feb 2023	Water Color	Blueish-Green
I14	08 Feb 2023	Wave Ht Low (ft)	3.3
I14	08 Feb 2023	Wave Period (sec)	11
I14	08 Feb 2023	Sea State	Light Chop
I14	08 Feb 2023	High Tide (ft)	5.03
I14	08 Feb 2023	High Tide Time	954
I14	08 Feb 2023	Low Tide (ft)	-0.08
I14	08 Feb 2023	Low Tide Time	1642
I14	08 Feb 2023	Comments	none
I15	08 Feb 2023	Depth (m)	32
I15	08 Feb 2023	Arrive Time	1105
I15	08 Feb 2023	Depart Time	1108
I15	08 Feb 2023	Air Temp (C)	14.9
I15	08 Feb 2023	Weather	Haze
I15	08 Feb 2023	Visibility (mi)	10
I15	08 Feb 2023	Wind Speed (kts)	4.7
I15	08 Feb 2023	Wind Dir	NW

Station	Date	Parameter	Value
I15	08 Feb 2023	Water Color	Greenish-Blue
I15	08 Feb 2023	Wave Ht Low (ft)	3.3
I15	08 Feb 2023	Wave Period (sec)	11
I15	08 Feb 2023	Sea State	Light Chop
I15	08 Feb 2023	High Tide (ft)	5.03
I15	08 Feb 2023	High Tide Time	954
I15	08 Feb 2023	Low Tide (ft)	-0.08
I15	08 Feb 2023	Low Tide Time	1642
I15	08 Feb 2023	Comments	none
I16	08 Feb 2023	Depth (m)	27
I16	08 Feb 2023	Arrive Time	1046
I16	08 Feb 2023	Depart Time	1053
I16	08 Feb 2023	Air Temp (C)	14.6
I16	08 Feb 2023	Weather	Haze
I16	08 Feb 2023	Visibility (mi)	10
I16	08 Feb 2023	Wind Speed (kts)	5.8
I16	08 Feb 2023	Wind Dir	NW
I16	08 Feb 2023	Water Color	Greenish-Blue
I16	08 Feb 2023	Wave Ht Low (ft)	3.3
I16	08 Feb 2023	Wave Period (sec)	11
I16	08 Feb 2023	Sea State	Light Chop
I16	08 Feb 2023	High Tide (ft)	5.03
I16	08 Feb 2023	High Tide Time	954
I16	08 Feb 2023	Low Tide (ft)	-0.08
I16	08 Feb 2023	Low Tide Time	1642
I16	08 Feb 2023	Comments	none
I17	08 Feb 2023	Depth (m)	27
I17	08 Feb 2023	Arrive Time	1038
I17	08 Feb 2023	Depart Time	1041
I17	08 Feb 2023	Air Temp (C)	14.5
I17	08 Feb 2023	Weather	Haze
I17	08 Feb 2023	Visibility (mi)	10
I17	08 Feb 2023	Wind Speed (kts)	5.5
I17	08 Feb 2023	Wind Dir	NW
I17	08 Feb 2023	Water Color	Greenish-Blue
I17	08 Feb 2023	Wave Ht Low (ft)	3.3
I17	08 Feb 2023	Wave Period (sec)	11
I17	08 Feb 2023	Sea State	Light Chop
I17	08 Feb 2023	High Tide (ft)	5.03
I17	08 Feb 2023	High Tide Time	954
I17	08 Feb 2023	Low Tide (ft)	-0.08
I17	08 Feb 2023	Low Tide Time	1642
I17	08 Feb 2023	Comments	none
I18	08 Feb 2023	Depth (m)	20
I18	08 Feb 2023	Arrive Time	1028
I18	08 Feb 2023	Depart Time	1038
I18	08 Feb 2023	Air Temp (C)	15.6
I18	08 Feb 2023	Weather	Haze
I18	08 Feb 2023	Visibility (mi)	10
I18	08 Feb 2023	Wind Speed (kts)	3.4
I18	08 Feb 2023	Wind Dir	W
I18	08 Feb 2023	Water Color	Green
I18	08 Feb 2023	Wave Ht Low (ft)	3.3
I18	08 Feb 2023	Wave Period (sec)	11
I18	08 Feb 2023	Sea State	Light Chop
I18	08 Feb 2023	High Tide (ft)	5.03
I18	08 Feb 2023	High Tide Time	954
I18	08 Feb 2023	Low Tide (ft)	-0.08

Station	Date	Parameter	Value
I18	08 Feb 2023	Low Tide Time	1642
I18	08 Feb 2023	Comments	none
I2	07 Feb 2023	Depth (m)	34
I2	07 Feb 2023	Arrive Time	1007
I2	07 Feb 2023	Depart Time	1010
I2	07 Feb 2023	Air Temp (C)	13.6
I2	07 Feb 2023	Weather	Clear
I2	07 Feb 2023	Visibility (mi)	12
I2	07 Feb 2023	Wind Speed (kts)	4.4
I2	07 Feb 2023	Wind Dir	NE
I2	07 Feb 2023	Water Color	Greenish-Blue
I2	07 Feb 2023	Wave Ht Low (ft)	4
I2	07 Feb 2023	Wave Period (sec)	10
I2	07 Feb 2023	Sea State	Rough
I2	07 Feb 2023	High Tide (ft)	5.4
I2	07 Feb 2023	High Tide Time	930
I2	07 Feb 2023	Low Tide (ft)	-0.38
I2	07 Feb 2023	Low Tide Time	1612
I2	07 Feb 2023	Comments	none
I20	08 Feb 2023	Depth (m)	56
I20	08 Feb 2023	Arrive Time	906
I20	08 Feb 2023	Depart Time	910
I20	08 Feb 2023	Air Temp (C)	13.1
I20	08 Feb 2023	Weather	Partly Cloudy
I20	08 Feb 2023	Visibility (mi)	10
I20	08 Feb 2023	Wind Speed (kts)	6.2
I20	08 Feb 2023	Wind Dir	NE
I20	08 Feb 2023	Water Color	Blueish-Green
I20	08 Feb 2023	Wave Ht Low (ft)	3.3
I20	08 Feb 2023	Wave Period (sec)	11
I20	08 Feb 2023	Sea State	Light Chop
I20	08 Feb 2023	High Tide (ft)	5.03
I20	08 Feb 2023	High Tide Time	954
I20	08 Feb 2023	Low Tide (ft)	-0.08
I20	08 Feb 2023	Low Tide Time	1642
I20	08 Feb 2023	Comments	Drifted off station; use 2nd cast
I21	08 Feb 2023	Depth (m)	41
I21	08 Feb 2023	Arrive Time	923
I21	08 Feb 2023	Depart Time	931
I21	08 Feb 2023	Air Temp (C)	13.2
I21	08 Feb 2023	Weather	Partly Cloudy
I21	08 Feb 2023	Visibility (mi)	10
I21	08 Feb 2023	Wind Speed (kts)	5.9
I21	08 Feb 2023	Wind Dir	NE
I21	08 Feb 2023	Water Color	Blueish-Green
I21	08 Feb 2023	Wave Ht Low (ft)	3.3
I21	08 Feb 2023	Wave Period (sec)	11
I21	08 Feb 2023	Sea State	Light Chop
I21	08 Feb 2023	High Tide (ft)	5.03
I21	08 Feb 2023	High Tide Time	954
I21	08 Feb 2023	Low Tide (ft)	-0.08
I21	08 Feb 2023	Low Tide Time	1642
I21	08 Feb 2023	Comments	OA 1m Btl# 2302086407 Nsk# 5;OA 41m Btl# 2302086408 Nsk# 1;
I22	08 Feb 2023	Depth (m)	29
I22	08 Feb 2023	Arrive Time	1002
I22	08 Feb 2023	Depart Time	1008

Station	Date	Parameter	Value
I22	08 Feb 2023	Air Temp (C)	14.7
I22	08 Feb 2023	Weather	Partly Cloudy
I22	08 Feb 2023	Visibility (mi)	10
I22	08 Feb 2023	Wind Speed (kts)	3.8
I22	08 Feb 2023	Wind Dir	NE
I22	08 Feb 2023	Water Color	Blueish-Green
I22	08 Feb 2023	Wave Ht Low (ft)	3.3
I22	08 Feb 2023	Wave Period (sec)	11
I22	08 Feb 2023	Sea State	Light Chop
I22	08 Feb 2023	High Tide (ft)	5.03
I22	08 Feb 2023	High Tide Time	954
I22	08 Feb 2023	Low Tide (ft)	-0.08
I22	08 Feb 2023	Low Tide Time	1642
I22	08 Feb 2023	Comments	none
I23	08 Feb 2023	Depth (m)	21
I23	08 Feb 2023	Arrive Time	1016
I23	08 Feb 2023	Depart Time	1020
I23	08 Feb 2023	Air Temp (C)	17
I23	08 Feb 2023	Weather	Haze
I23	08 Feb 2023	Visibility (mi)	10
I23	08 Feb 2023	Wind Speed (kts)	2.7
I23	08 Feb 2023	Wind Dir	NE
I23	08 Feb 2023	Water Color	Green
I23	08 Feb 2023	Wave Ht Low (ft)	3.3
I23	08 Feb 2023	Wave Period (sec)	11
I23	08 Feb 2023	Sea State	Light Chop
I23	08 Feb 2023	High Tide (ft)	5.03
I23	08 Feb 2023	High Tide Time	954
I23	08 Feb 2023	Low Tide (ft)	-0.08
I23	08 Feb 2023	Low Tide Time	1642
I23	08 Feb 2023	Comments	none
I27	08 Feb 2023	Depth (m)	30
I27	08 Feb 2023	Arrive Time	948
I27	08 Feb 2023	Depart Time	952
I27	08 Feb 2023	Air Temp (C)	14.6
I27	08 Feb 2023	Weather	Partly Cloudy
I27	08 Feb 2023	Visibility (mi)	10
I27	08 Feb 2023	Wind Speed (kts)	4.8
I27	08 Feb 2023	Wind Dir	NE
I27	08 Feb 2023	Water Color	Blueish-Green
I27	08 Feb 2023	Wave Ht Low (ft)	3.3
I27	08 Feb 2023	Wave Period (sec)	11
I27	08 Feb 2023	Sea State	Light Chop
I27	08 Feb 2023	High Tide (ft)	5.03
I27	08 Feb 2023	High Tide Time	954
I27	08 Feb 2023	Low Tide (ft)	-0.08
I27	08 Feb 2023	Low Tide Time	1642
I27	08 Feb 2023	Comments	none
I28	09 Feb 2023	Depth (m)	57
I28	09 Feb 2023	Arrive Time	822
I28	09 Feb 2023	Depart Time	830
I28	09 Feb 2023	Air Temp (C)	13.1
I28	09 Feb 2023	Weather	Clear
I28	09 Feb 2023	Visibility (mi)	10
I28	09 Feb 2023	Wind Speed (kts)	6.3
I28	09 Feb 2023	Wind Dir	NE
I28	09 Feb 2023	Water Color	Blueish-Green
I28	09 Feb 2023	Wave Ht Low (ft)	4

Station	Date	Parameter	Value
I28	09 Feb 2023	Wave Period (sec)	13
I28	09 Feb 2023	Sea State	Regular Swell
I28	09 Feb 2023	High Tide (ft)	4.52
I28	09 Feb 2023	High Tide Time	1024
I28	09 Feb 2023	Low Tide (ft)	0.31
I28	09 Feb 2023	Low Tide Time	1706
I28	09 Feb 2023	Comments	OA 1m Btl# 2302096409 Nsk# 3;OA 55m Btl# 2302096410 Nsk# 1;
I29	09 Feb 2023	Depth (m)	38
I29	09 Feb 2023	Arrive Time	843
I29	09 Feb 2023	Depart Time	849
I29	09 Feb 2023	Air Temp (C)	13.1
I29	09 Feb 2023	Weather	Clear
I29	09 Feb 2023	Visibility (mi)	10
I29	09 Feb 2023	Wind Speed (kts)	5.6
I29	09 Feb 2023	Wind Dir	NE
I29	09 Feb 2023	Water Color	Green
I29	09 Feb 2023	Wave Ht Low (ft)	4
I29	09 Feb 2023	Wave Period (sec)	13
I29	09 Feb 2023	Sea State	Regular Swell
I29	09 Feb 2023	High Tide (ft)	4.52
I29	09 Feb 2023	High Tide Time	1024
I29	09 Feb 2023	Low Tide (ft)	0.31
I29	09 Feb 2023	Low Tide Time	1706
I29	09 Feb 2023	Comments	none
I3	07 Feb 2023	Depth (m)	29
I3	07 Feb 2023	Arrive Time	1021
I3	07 Feb 2023	Depart Time	1027
I3	07 Feb 2023	Air Temp (C)	13.9
I3	07 Feb 2023	Weather	Clear
I3	07 Feb 2023	Visibility (mi)	12
I3	07 Feb 2023	Wind Speed (kts)	4.7
I3	07 Feb 2023	Wind Dir	NW
I3	07 Feb 2023	Water Color	Greenish-Blue
I3	07 Feb 2023	Wave Ht Low (ft)	4
I3	07 Feb 2023	Wave Period (sec)	10
I3	07 Feb 2023	Sea State	Rough
I3	07 Feb 2023	High Tide (ft)	5.4
I3	07 Feb 2023	High Tide Time	930
I3	07 Feb 2023	Low Tide (ft)	-0.38
I3	07 Feb 2023	Low Tide Time	1612
I3	07 Feb 2023	Comments	none
I30	09 Feb 2023	Depth (m)	30
I30	09 Feb 2023	Arrive Time	858
I30	09 Feb 2023	Depart Time	903
I30	09 Feb 2023	Air Temp (C)	13.1
I30	09 Feb 2023	Weather	Clear
I30	09 Feb 2023	Visibility (mi)	10
I30	09 Feb 2023	Wind Speed (kts)	6.2
I30	09 Feb 2023	Wind Dir	N
I30	09 Feb 2023	Water Color	Green
I30	09 Feb 2023	Wave Ht Low (ft)	4
I30	09 Feb 2023	Wave Period (sec)	13
I30	09 Feb 2023	Sea State	Regular Swell
I30	09 Feb 2023	High Tide (ft)	4.52
I30	09 Feb 2023	High Tide Time	1024
I30	09 Feb 2023	Low Tide (ft)	0.31
I30	09 Feb 2023	Low Tide Time	1706

Station	Date	Parameter	Value
I30	09 Feb 2023	Comments	none
I31	09 Feb 2023	Depth (m)	21
I31	09 Feb 2023	Arrive Time	910
I31	09 Feb 2023	Depart Time	916
I31	09 Feb 2023	Air Temp (C)	13.7
I31	09 Feb 2023	Weather	Clear
I31	09 Feb 2023	Visibility (mi)	10
I31	09 Feb 2023	Wind Speed (kts)	6.6
I31	09 Feb 2023	Wind Dir	N
I31	09 Feb 2023	Water Color	Green
I31	09 Feb 2023	Wave Ht Low (ft)	4
I31	09 Feb 2023	Wave Period (sec)	13
I31	09 Feb 2023	Sea State	Regular Swell
I31	09 Feb 2023	High Tide (ft)	4.52
I31	09 Feb 2023	High Tide Time	1024
I31	09 Feb 2023	Low Tide (ft)	0.31
I31	09 Feb 2023	Low Tide Time	1706
I31	09 Feb 2023	Comments	Lobster Floats
I33	09 Feb 2023	Depth (m)	31
I33	09 Feb 2023	Arrive Time	803
I33	09 Feb 2023	Depart Time	809
I33	09 Feb 2023	Air Temp (C)	12.3
I33	09 Feb 2023	Weather	Clear
I33	09 Feb 2023	Visibility (mi)	10
I33	09 Feb 2023	Wind Speed (kts)	6.7
I33	09 Feb 2023	Wind Dir	E
I33	09 Feb 2023	Water Color	Blueish-Green
I33	09 Feb 2023	Wave Ht Low (ft)	4
I33	09 Feb 2023	Wave Period (sec)	13
I33	09 Feb 2023	Sea State	Regular Swell
I33	09 Feb 2023	High Tide (ft)	4.52
I33	09 Feb 2023	High Tide Time	1024
I33	09 Feb 2023	Low Tide (ft)	0.31
I33	09 Feb 2023	Low Tide Time	1706
I33	09 Feb 2023	Comments	none
I34	09 Feb 2023	Depth (m)	20
I34	09 Feb 2023	Arrive Time	752
I34	09 Feb 2023	Depart Time	756
I34	09 Feb 2023	Air Temp (C)	12
I34	09 Feb 2023	Weather	Clear
I34	09 Feb 2023	Visibility (mi)	10
I34	09 Feb 2023	Wind Speed (kts)	3.9
I34	09 Feb 2023	Wind Dir	NE
I34	09 Feb 2023	Water Color	Blueish-Green
I34	09 Feb 2023	Wave Ht Low (ft)	4
I34	09 Feb 2023	Wave Period (sec)	13
I34	09 Feb 2023	Sea State	Regular Swell
I34	09 Feb 2023	High Tide (ft)	4.52
I34	09 Feb 2023	High Tide Time	1024
I34	09 Feb 2023	Low Tide (ft)	0.31
I34	09 Feb 2023	Low Tide Time	1706
I34	09 Feb 2023	Comments	none
I35	09 Feb 2023	Depth (m)	20
I35	09 Feb 2023	Arrive Time	952
I35	09 Feb 2023	Depart Time	957
I35	09 Feb 2023	Air Temp (C)	14.1
I35	09 Feb 2023	Weather	Clear

Station	Date	Parameter	Value
I35	09 Feb 2023	Visibility (mi)	10
I35	09 Feb 2023	Wind Speed (kts)	4.3
I35	09 Feb 2023	Wind Dir	N
I35	09 Feb 2023	Water Color	Green
I35	09 Feb 2023	Wave Ht Low (ft)	4
I35	09 Feb 2023	Wave Period (sec)	13
I35	09 Feb 2023	Sea State	Regular Swell
I35	09 Feb 2023	High Tide (ft)	4.52
I35	09 Feb 2023	High Tide Time	1024
I35	09 Feb 2023	Low Tide (ft)	0.31
I35	09 Feb 2023	Low Tide Time	1706
I35	09 Feb 2023	Comments	none
I36	09 Feb 2023	Depth (m)	11
I36	09 Feb 2023	Arrive Time	935
I36	09 Feb 2023	Depart Time	939
I36	09 Feb 2023	Air Temp (C)	14.2
I36	09 Feb 2023	Weather	Clear
I36	09 Feb 2023	Visibility (mi)	10
I36	09 Feb 2023	Wind Speed (kts)	3.6
I36	09 Feb 2023	Wind Dir	N
I36	09 Feb 2023	Water Color	Green
I36	09 Feb 2023	Wave Ht Low (ft)	4
I36	09 Feb 2023	Wave Period (sec)	13
I36	09 Feb 2023	Sea State	Regular Swell
I36	09 Feb 2023	High Tide (ft)	4.52
I36	09 Feb 2023	High Tide Time	1024
I36	09 Feb 2023	Low Tide (ft)	0.31
I36	09 Feb 2023	Low Tide Time	1706
I36	09 Feb 2023	Comments	none
I37	09 Feb 2023	Depth (m)	13
I37	09 Feb 2023	Arrive Time	741
I37	09 Feb 2023	Depart Time	743
I37	09 Feb 2023	Air Temp (C)	11.8
I37	09 Feb 2023	Weather	Clear
I37	09 Feb 2023	Visibility (mi)	10
I37	09 Feb 2023	Wind Speed (kts)	4.4
I37	09 Feb 2023	Wind Dir	E
I37	09 Feb 2023	Water Color	Blueish-Green
I37	09 Feb 2023	Wave Ht Low (ft)	4
I37	09 Feb 2023	Wave Period (sec)	13
I37	09 Feb 2023	Sea State	Regular Swell
I37	09 Feb 2023	High Tide (ft)	4.52
I37	09 Feb 2023	High Tide Time	1024
I37	09 Feb 2023	Low Tide (ft)	0.31
I37	09 Feb 2023	Low Tide Time	1706
I37	09 Feb 2023	Comments	none
I38	09 Feb 2023	Depth (m)	13
I38	09 Feb 2023	Arrive Time	1009
I38	09 Feb 2023	Depart Time	1013
I38	09 Feb 2023	Air Temp (C)	15.2
I38	09 Feb 2023	Weather	Clear
I38	09 Feb 2023	Visibility (mi)	10
I38	09 Feb 2023	Wind Speed (kts)	0
I38	09 Feb 2023	Wind Dir	NE
I38	09 Feb 2023	Water Color	Green
I38	09 Feb 2023	Wave Ht Low (ft)	4
I38	09 Feb 2023	Wave Period (sec)	11
I38	09 Feb 2023	Sea State	Confused Swell

Station	Date	Parameter	Value
I38	09 Feb 2023	High Tide (ft)	4.52
I38	09 Feb 2023	High Tide Time	1024
I38	09 Feb 2023	Low Tide (ft)	0.31
I38	09 Feb 2023	Low Tide Time	1706
I38	09 Feb 2023	Comments	none
14	07 Feb 2023	Depth (m)	20
14	07 Feb 2023	Arrive Time	1038
14	07 Feb 2023	Depart Time	1042
14	07 Feb 2023	Air Temp (C)	14.2
14	07 Feb 2023	Weather	Clear
14	07 Feb 2023	Visibility (mi)	12
14	07 Feb 2023	Wind Speed (kts)	3.7
14	07 Feb 2023	Wind Dir	NW
14	07 Feb 2023	Water Color	Greenish-Blue
14	07 Feb 2023	Wave Ht Low (ft)	4
14	07 Feb 2023	Wave Period (sec)	10
14	07 Feb 2023	Sea State	Rough
14	07 Feb 2023	High Tide (ft)	5.4
14	07 Feb 2023	High Tide Time	930
14	07 Feb 2023	Low Tide (ft)	-0.38
14	07 Feb 2023	Low Tide Time	1612
14	07 Feb 2023	Comments	none
15	07 Feb 2023	Depth (m)	15
15	07 Feb 2023	Arrive Time	1046
15	07 Feb 2023	Depart Time	1052
15	07 Feb 2023	Air Temp (C)	14.4
15	07 Feb 2023	Weather	Clear
15	07 Feb 2023	Visibility (mi)	12
15	07 Feb 2023	Wind Speed (kts)	2.2
15	07 Feb 2023	Wind Dir	NW
15	07 Feb 2023	Water Color	Greenish-Blue
15	07 Feb 2023	Wave Ht Low (ft)	4
15	07 Feb 2023	Wave Period (sec)	10
15	07 Feb 2023	Sea State	Rough
15	07 Feb 2023	High Tide (ft)	5.4
15	07 Feb 2023	High Tide Time	930
15	07 Feb 2023	Low Tide (ft)	-0.38
15	07 Feb 2023	Low Tide Time	1612
15	07 Feb 2023	Comments	none
16	07 Feb 2023	Depth (m)	25
16	07 Feb 2023	Arrive Time	1106
16	07 Feb 2023	Depart Time	1112
16	07 Feb 2023	Air Temp (C)	14.2
16	07 Feb 2023	Weather	Clear
16	07 Feb 2023	Visibility (mi)	12
16	07 Feb 2023	Wind Speed (kts)	9.6
16	07 Feb 2023	Wind Dir	NW
16	07 Feb 2023	Water Color	Greenish-Blue
16	07 Feb 2023	Wave Ht Low (ft)	4
16	07 Feb 2023	Wave Period (sec)	10
16	07 Feb 2023	Sea State	Regular Swell
16	07 Feb 2023	High Tide (ft)	5.4
16	07 Feb 2023	High Tide Time	930
16	07 Feb 2023	Low Tide (ft)	-0.38
16	07 Feb 2023	Low Tide Time	1612
16	07 Feb 2023	Comments	none
17	07 Feb 2023	Depth (m)	53

Station	Date	Parameter	Value
17	07 Feb 2023	Arrive Time	903
17	07 Feb 2023	Depart Time	912
17	07 Feb 2023	Air Temp (C)	12.4
17	07 Feb 2023	Weather	Clear
17	07 Feb 2023	Visibility (mi)	12
17	07 Feb 2023	Wind Speed (kts)	7.4
17	07 Feb 2023	Wind Dir	NE
17	07 Feb 2023	Water Color	Greenish-Blue
17	07 Feb 2023	Wave Ht Low (ft)	4
17	07 Feb 2023	Wave Period (sec)	10
17	07 Feb 2023	Sea State	Rough
17	07 Feb 2023	High Tide (ft)	5.4
17	07 Feb 2023	High Tide Time	930
17	07 Feb 2023	Low Tide (ft)	-0.38
17	07 Feb 2023	Low Tide Time	1612
17	07 Feb 2023	Comments	none
18	07 Feb 2023	Depth (m)	
18	07 Feb 2023	Arrive Time	1204
18	07 Feb 2023	Depart Time	1209
18	07 Feb 2023	Air Temp (C)	14.8
18	07 Feb 2023	Weather	Clear
18	07 Feb 2023	Visibility (mi)	12
18	07 Feb 2023	Wind Speed (kts)	7.9
18	07 Feb 2023	Wind Dir	W
18	07 Feb 2023	Water Color	Greenish-Blue
18	07 Feb 2023	Wave Ht Low (ft)	4
18	07 Feb 2023	Wave Period (sec)	10
18	07 Feb 2023	Sea State	Regular Swell
18	07 Feb 2023	High Tide (ft)	5.4
18	07 Feb 2023	High Tide Time	930
18	07 Feb 2023	Low Tide (ft)	-0.38
18	07 Feb 2023	Low Tide Time	1612
18	07 Feb 2023	Comments	none
19	07 Feb 2023	Depth (m)	31
19	07 Feb 2023	Arrive Time	1150
19	07 Feb 2023	Depart Time	1154
19	07 Feb 2023	Air Temp (C)	14.7
19	07 Feb 2023	Weather	Clear
19	07 Feb 2023	Visibility (mi)	12
19	07 Feb 2023	Wind Speed (kts)	5.9
19	07 Feb 2023	Wind Dir	NW
19	07 Feb 2023	Water Color	Greenish-Blue
19	07 Feb 2023	Wave Ht Low (ft)	4
19	07 Feb 2023	Wave Period (sec)	10
19	07 Feb 2023	Sea State	Regular Swell
19	07 Feb 2023	High Tide (ft)	5.4
19	07 Feb 2023	High Tide Time	930
19	07 Feb 2023	Low Tide (ft)	-0.38
19	07 Feb 2023	Low Tide Time	1612
19	07 Feb 2023	Comments	none

Table 4.6

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

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I1	07 Feb 2023	1	14.26	90.00	8.3	33.35	8.0	24.9	0.69
I1	07 Feb 2023	2	14.25	87.61	8.3	33.35	8.0	24.9	0.65
I1	07 Feb 2023	3	14.25	89.14	8.3	33.35	8.0	24.9	0.69
I1	07 Feb 2023	4	14.24	89.78	8.3	33.35	8.0	24.9	0.79
I1	07 Feb 2023	5	14.24	89.71	8.3	33.35	8.0	24.9	0.81
I1	07 Feb 2023	6	14.24	89.77	8.2	33.35	8.0	24.9	0.85
I1	07 Feb 2023	7	14.24	89.75	8.3	33.35	8.0	24.9	0.93
I1	07 Feb 2023	8	14.24	89.79	8.2	33.35	8.0	24.9	1.06
I1	07 Feb 2023	9	14.24	89.72	8.2	33.35	8.0	24.9	1.13
I1	07 Feb 2023	10	14.23	89.63	8.3	33.35	8.0	24.9	1.15
I1	07 Feb 2023	11	14.23	89.70	8.2	33.35	8.0	24.9	1.26
I1	07 Feb 2023	12	14.23	88.34	8.2	33.35	8.0	24.9	1.21
I1	07 Feb 2023	13	14.23	89.64	8.2	33.35	8.0	24.9	1.30
I1	07 Feb 2023	14	14.23	89.58	8.2	33.35	8.0	24.9	1.32
I1	07 Feb 2023	15	14.23	89.83	8.2	33.35	8.0	24.9	1.32
I1	07 Feb 2023	16	14.23	89.90	8.2	33.35	8.0	24.9	1.27
I1	07 Feb 2023	17	14.22	89.76	8.2	33.35	8.0	24.9	1.38
I1	07 Feb 2023	18	14.22	89.83	8.2	33.35	8.0	24.9	1.41
I1	07 Feb 2023	19	14.22	89.82	8.2	33.35	8.0	24.9	1.38
I1	07 Feb 2023	20	14.22	89.83	8.2	33.35	8.0	24.9	1.42
I1	07 Feb 2023	21	14.22	89.92	8.2	33.35	8.0	24.9	1.31
I1	07 Feb 2023	22	14.21	89.74	8.2	33.35	8.0	24.9	1.40
I1	07 Feb 2023	23	14.21	89.99	8.2	33.35	8.0	24.9	1.42
I1	07 Feb 2023	24	14.20	89.95	8.1	33.35	8.0	24.9	1.47
I1	07 Feb 2023	25	14.19	90.03	8.1	33.35	8.0	24.9	1.58
I1	07 Feb 2023	26	14.15	90.14	8.0	33.36	8.0	24.9	1.59
I1	07 Feb 2023	27	14.12	90.37	7.9	33.36	8.0	24.9	1.62
I1	07 Feb 2023	28	14.08	90.37	7.9	33.36	8.0	24.9	1.54
I1	07 Feb 2023	29	14.06	90.47	7.8	33.36	8.0	24.9	1.42
I1	07 Feb 2023	30	13.93	90.60	7.5	33.36	8.0	24.9	1.39
I1	07 Feb 2023	31	13.70	90.48	7.2	33.37	8.0	25.0	1.33
I1	07 Feb 2023	32	13.50	90.51	6.9	33.38	7.9	25.0	1.24
I1	07 Feb 2023	33	13.31	90.66	6.6	33.40	7.9	25.1	1.03
I1	07 Feb 2023	34	13.24	90.95	6.5	33.40	7.9	25.1	0.97
I1	07 Feb 2023	35	13.24	91.06	6.5	33.40	7.9	25.1	1.00
I1	07 Feb 2023	36	13.09	90.99	6.3	33.42	7.9	25.1	0.84
I1	07 Feb 2023	37	12.99	90.79	6.2	33.43	7.8	25.2	0.83
I1	07 Feb 2023	38	12.97	90.65	6.1	33.43	7.8	25.2	0.78
I1	07 Feb 2023	39	12.96	90.62	6.1	33.43	7.8	25.2	0.77
I1	07 Feb 2023	40	12.96	90.63	6.1	33.43	7.8	25.2	0.87
I1	07 Feb 2023	41	12.96	90.56	6.1	33.43	7.8	25.2	0.78
I1	07 Feb 2023	42	12.95	90.55	6.1	33.43	7.8	25.2	0.76
I1	07 Feb 2023	43	12.95	90.56	6.1	33.43	7.8	25.2	0.83
I1	07 Feb 2023	44	12.95	90.54	6.1	33.43	7.8	25.2	0.81
I1	07 Feb 2023	45	12.95	90.53	6.1	33.43	7.8	25.2	0.75
I1	07 Feb 2023	46	12.94	90.56	6.0	33.44	7.8	25.2	0.74
I1	07 Feb 2023	47	12.86	90.45	5.9	33.45	7.8	25.2	0.72
I1	07 Feb 2023	48	12.77	90.35	5.8	33.46	7.8	25.2	0.78
I1	07 Feb 2023	49	12.72	90.01	5.8	33.46	7.8	25.3	0.70
I1	07 Feb 2023	50	12.67	90.07	5.7	33.46	7.8	25.3	0.63
I1	07 Feb 2023	51	12.57	90.03	5.6	33.47	7.8	25.3	0.62
I1	07 Feb 2023	52	12.46	90.03	5.5	33.48	7.8	25.3	0.57
I1	07 Feb 2023	53	12.37	90.05	5.4	33.49	7.8	25.3	0.54
I1	07 Feb 2023	54	12.33	90.00	5.3	33.50	7.8	25.4	0.54
I1	07 Feb 2023	55	12.31	89.95	5.3	33.50	7.8	25.4	0.51
I1	07 Feb 2023	56	12.31	90.00	5.3	33.50	7.8	25.4	0.51

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I1	07 Feb 2023	57	12.28	90.09	5.3	33.50	7.8	25.4	0.53
I1	07 Feb 2023	58	12.26	90.03	5.2	33.51	7.8	25.4	0.51
I1	07 Feb 2023	59	12.21	90.00	5.1	33.51	7.8	25.4	0.49
I1	07 Feb 2023	60	12.10	89.97	5.0	33.53	7.8	25.4	0.48
I10	07 Feb 2023	1	14.15	73.12	8.2	33.29	8.0	24.8	0.90
I10	07 Feb 2023	2	13.99	72.16	8.2	33.30	8.0	24.9	0.97
I10	07 Feb 2023	3	13.74	72.92	8.1	33.31	8.0	24.9	1.26
I10	07 Feb 2023	4	13.63	76.19	7.8	33.31	8.0	25.0	1.47
I10	07 Feb 2023	5	13.38	77.99	7.3	33.35	8.0	25.0	1.45
I10	07 Feb 2023	6	13.27	76.90	7.0	33.36	7.9	25.1	1.47
I10	07 Feb 2023	7	13.05	78.65	6.5	33.39	7.9	25.1	1.38
I10	07 Feb 2023	8	12.78	79.82	6.1	33.42	7.8	25.2	1.27
I10	07 Feb 2023	9	12.69	80.74	5.9	33.43	7.8	25.2	1.04
I10	07 Feb 2023	10	12.56	80.02	5.8	33.45	7.8	25.3	1.04
I10	07 Feb 2023	11	12.48	80.12	5.7	33.46	7.8	25.3	0.95
I10	07 Feb 2023	12	12.31	79.07	5.4	33.48	7.8	25.4	0.84
I10	07 Feb 2023	13	12.13	78.14	5.1	33.51	7.8	25.4	0.70
I10	07 Feb 2023	14	12.05	70.11	5.0	33.52	7.8	25.4	0.66
I10	07 Feb 2023	15	12.03	61.92	5.0	33.52	7.7	25.4	0.65
I10	07 Feb 2023	16	12.03	60.97	5.0	33.52	7.7	25.4	0.64
I10	07 Feb 2023	17	12.03	60.91	5.0	33.52	7.7	25.4	0.62
I10	07 Feb 2023	18	12.04	61.47	5.0	33.52	7.7	25.4	0.64
I10	07 Feb 2023	19	12.03	59.65	5.0	33.53	7.7	25.4	0.63
I11	07 Feb 2023	1	14.15	71.44	8.3	33.29	8.0	24.8	0.91
I11	07 Feb 2023	2	14.11	70.46	8.3	33.29	8.0	24.8	0.94
I11	07 Feb 2023	3	13.94	70.14	8.1	33.30	8.0	24.9	1.13
I11	07 Feb 2023	4	13.74	70.84	7.8	33.31	8.0	24.9	1.48
I11	07 Feb 2023	5	13.32	69.29	7.3	33.31	7.9	25.0	1.67
I11	07 Feb 2023	6	13.10	54.93	6.9	33.34	7.9	25.1	1.69
I11	07 Feb 2023	7	13.00	46.46	6.7	33.35	7.8	25.1	1.55
I11	07 Feb 2023	8	12.64	73.28	5.9	33.43	7.8	25.2	1.19
I11	07 Feb 2023	9	12.19	69.68	5.2	33.50	7.8	25.4	0.90
I11	07 Feb 2023	10	12.10	56.30	5.0	33.51	7.8	25.4	0.80
I11	07 Feb 2023	11	12.10	43.05	5.0	33.51	7.8	25.4	0.80
I11	07 Feb 2023	12	12.09	40.87	5.1	33.51	7.8	25.4	0.84
I11	07 Feb 2023	13	12.08	39.05	5.0	33.51	7.7	25.4	0.80
I12	08 Feb 2023	1	14.09	83.77	8.2	33.30	8.1	24.9	1.00
I12	08 Feb 2023	2	13.97	83.33	8.2	33.30	8.1	24.9	1.21
I12	08 Feb 2023	3	13.92	82.96	8.2	33.30	8.1	24.9	1.35
I12	08 Feb 2023	4	13.88	82.51	8.1	33.30	8.1	24.9	1.64
I12	08 Feb 2023	5	13.79	82.47	7.9	33.31	8.1	24.9	1.75
I12	08 Feb 2023	6	13.67	83.04	7.6	33.33	8.1	25.0	1.76
I12	08 Feb 2023	7	13.42	83.78	7.1	33.36	8.1	25.0	1.63
I12	08 Feb 2023	8	13.05	85.18	6.6	33.40	8.0	25.1	1.44
I12	08 Feb 2023	9	12.84	86.31	6.2	33.41	8.0	25.2	1.20
I12	08 Feb 2023	10	12.56	87.23	5.9	33.43	7.9	25.3	0.89
I12	08 Feb 2023	11	12.36	88.74	5.7	33.45	7.9	25.3	0.95
I12	08 Feb 2023	12	12.26	89.82	5.6	33.46	7.9	25.3	0.82
I12	08 Feb 2023	13	12.25	90.30	5.6	33.45	7.9	25.3	0.71
I12	08 Feb 2023	14	12.24	90.65	5.5	33.45	7.9	25.3	0.61
I12	08 Feb 2023	15	12.11	90.64	5.3	33.47	7.9	25.4	0.59
I12	08 Feb 2023	16	11.94	90.30	5.1	33.52	7.8	25.4	0.51
I12	08 Feb 2023	17	11.91	89.38	5.0	33.53	7.8	25.5	0.47
I12	08 Feb 2023	18	11.91	88.83	5.0	33.53	7.8	25.5	0.52
I12	08 Feb 2023	19	11.90	88.55	4.9	33.54	7.8	25.5	0.54
I12	08 Feb 2023	20	11.82	88.37	4.8	33.56	7.8	25.5	0.50
I12	08 Feb 2023	21	11.78	88.05	4.8	33.57	7.8	25.5	0.44
I12	08 Feb 2023	22	11.78	87.52	4.8	33.57	7.8	25.5	0.43

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I12	08 Feb 2023	23	11.78	86.92	4.8	33.57	7.8	25.5	0.42
I12	08 Feb 2023	24	11.79	86.80	4.8	33.57	7.8	25.5	0.43
I12	08 Feb 2023	25	11.78	86.61	4.8	33.57	7.8	25.5	0.43
I12	08 Feb 2023	26	11.79	86.36	4.7	33.57	7.8	25.5	0.42
I12	08 Feb 2023	27	11.79	86.28	4.8	33.57	7.8	25.5	0.44
I12	08 Feb 2023	28	11.78	86.41	4.7	33.57	7.8	25.5	0.43
I13	08 Feb 2023	1	14.21	87.18	8.5	33.30	8.1	24.8	0.70
I13	08 Feb 2023	2	14.19	87.15	8.5	33.30	8.1	24.8	0.73
I13	08 Feb 2023	3	14.11	86.87	8.5	33.30	8.1	24.8	0.80
I13	08 Feb 2023	4	14.06	86.74	8.5	33.30	8.1	24.9	0.92
I13	08 Feb 2023	5	14.02	86.30	8.3	33.30	8.1	24.9	1.04
I13	08 Feb 2023	6	13.85	86.26	7.7	33.32	8.1	24.9	1.02
I13	08 Feb 2023	7	13.53	87.00	7.0	33.35	8.1	25.0	0.90
I13	08 Feb 2023	8	13.31	88.65	6.7	33.37	8.0	25.1	0.79
I13	08 Feb 2023	9	13.17	89.41	6.4	33.38	8.0	25.1	0.70
I13	08 Feb 2023	10	13.05	89.99	6.3	33.39	8.0	25.1	0.61
I13	08 Feb 2023	11	12.93	90.85	6.2	33.40	8.0	25.2	0.65
I13	08 Feb 2023	12	12.81	91.16	6.1	33.41	7.9	25.2	0.59
I13	08 Feb 2023	13	12.69	91.19	5.9	33.42	7.9	25.2	0.52
I13	08 Feb 2023	14	12.59	90.98	5.8	33.43	7.9	25.3	0.57
I13	08 Feb 2023	15	12.44	90.74	5.6	33.44	7.9	25.3	0.50
I13	08 Feb 2023	16	12.30	90.47	5.5	33.46	7.9	25.3	0.47
I13	08 Feb 2023	17	12.27	90.62	5.5	33.45	7.9	25.3	0.44
I13	08 Feb 2023	18	12.12	90.67	5.4	33.45	7.9	25.4	0.42
I13	08 Feb 2023	19	11.98	91.15	5.5	33.47	7.9	25.4	0.39
I13	08 Feb 2023	20	11.95	91.82	5.5	33.47	7.9	25.4	0.39
I13	08 Feb 2023	21	11.94	92.71	5.4	33.47	7.9	25.4	0.37
I13	08 Feb 2023	22	11.93	93.09	5.4	33.48	7.9	25.4	0.35
I13	08 Feb 2023	23	11.92	93.13	5.4	33.48	7.9	25.4	0.34
I13	08 Feb 2023	24	11.90	93.11	5.3	33.49	7.9	25.4	0.34
I13	08 Feb 2023	25	11.88	93.13	5.3	33.50	7.9	25.4	0.35
I13	08 Feb 2023	26	11.86	92.90	5.2	33.51	7.8	25.5	0.35
I13	08 Feb 2023	27	11.84	92.67	5.1	33.53	7.8	25.5	0.35
I13	08 Feb 2023	28	11.80	92.45	5.0	33.54	7.8	25.5	0.36
I13	08 Feb 2023	29	11.78	92.06	4.9	33.55	7.8	25.5	0.36
I13	08 Feb 2023	30	11.78	91.93	4.9	33.55	7.8	25.5	0.35
I13	08 Feb 2023	31	11.73	91.79	4.8	33.57	7.8	25.5	0.35
I13	08 Feb 2023	32	11.69	91.50	4.7	33.59	7.8	25.5	0.36
I13	08 Feb 2023	33	11.69	91.37	4.6	33.59	7.8	25.5	0.36
I13	08 Feb 2023	34	11.69	91.32	4.6	33.59	7.8	25.5	0.35
I13	08 Feb 2023	35	11.69	91.19	4.6	33.59	7.8	25.5	0.36
I13	08 Feb 2023	36	11.69	91.19	4.6	33.59	7.8	25.5	0.37
I13	08 Feb 2023	37	11.69	91.16	4.6	33.59	7.8	25.5	0.36
I13	08 Feb 2023	38	11.69	91.21	4.6	33.59	7.8	25.5	0.36
I14	08 Feb 2023	1	14.07	83.52	8.4	33.30	8.1	24.9	0.98
I14	08 Feb 2023	2	13.93	83.53	8.4	33.30	8.1	24.9	1.17
I14	08 Feb 2023	3	13.89	83.04	8.3	33.30	8.1	24.9	1.37
I14	08 Feb 2023	4	13.86	82.47	8.2	33.30	8.1	24.9	1.49
I14	08 Feb 2023	5	13.78	82.45	8.0	33.31	8.1	24.9	1.91
I14	08 Feb 2023	6	13.63	83.13	7.6	33.33	8.1	25.0	1.87
I14	08 Feb 2023	7	13.39	84.21	7.1	33.36	8.0	25.0	1.56
I14	08 Feb 2023	8	13.01	85.04	6.5	33.40	8.0	25.2	1.26
I14	08 Feb 2023	9	12.68	85.94	6.0	33.43	8.0	25.2	1.04
I14	08 Feb 2023	10	12.42	87.35	5.8	33.45	7.9	25.3	0.87
I14	08 Feb 2023	11	12.32	88.45	5.7	33.46	7.9	25.3	0.76
I14	08 Feb 2023	12	12.27	89.18	5.6	33.46	7.9	25.3	0.66
I14	08 Feb 2023	13	12.19	90.06	5.6	33.47	7.9	25.4	0.59
I14	08 Feb 2023	14	12.16	90.60	5.5	33.47	7.9	25.4	0.64
I14	08 Feb 2023	15	12.15	90.79	5.5	33.48	7.9	25.4	0.68

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I14	08 Feb 2023	16	12.15	90.76	5.5	33.48	7.9	25.4	0.62
I14	08 Feb 2023	17	12.13	90.85	5.4	33.49	7.9	25.4	0.71
I14	08 Feb 2023	18	12.00	90.66	5.2	33.52	7.9	25.4	0.54
I14	08 Feb 2023	19	11.80	90.43	4.9	33.56	7.8	25.5	0.47
I14	08 Feb 2023	20	11.76	89.36	4.7	33.57	7.8	25.5	0.43
I14	08 Feb 2023	21	11.76	88.28	4.7	33.57	7.8	25.5	0.39
I14	08 Feb 2023	22	11.76	87.95	4.7	33.57	7.8	25.5	0.39
I14	08 Feb 2023	23	11.75	87.89	4.7	33.57	7.8	25.5	0.39
I14	08 Feb 2023	24	11.75	87.69	4.7	33.57	7.8	25.5	0.40
I14	08 Feb 2023	25	11.75	87.08	4.7	33.57	7.8	25.5	0.42
I14	08 Feb 2023	26	11.75	86.81	4.7	33.58	7.8	25.5	0.42
I14	08 Feb 2023	27	11.75	86.36	4.7	33.58	7.8	25.5	0.42
I14	08 Feb 2023	28	11.75	85.28	4.7	33.58	7.8	25.5	0.40
I15	08 Feb 2023	1	14.14	84.15	8.2	33.29	8.1	24.8	0.91
I15	08 Feb 2023	2	13.99	84.20	8.2	33.29	8.1	24.9	1.05
I15	08 Feb 2023	3	13.94	83.47	8.1	33.29	8.1	24.9	1.20
I15	08 Feb 2023	4	13.84	82.84	7.8	33.31	8.1	24.9	1.24
I15	08 Feb 2023	5	13.61	84.10	7.3	33.34	8.1	25.0	1.17
I15	08 Feb 2023	6	13.36	86.13	6.8	33.37	8.0	25.1	0.92
I15	08 Feb 2023	7	13.26	87.44	6.6	33.38	8.0	25.1	0.88
I15	08 Feb 2023	8	13.08	88.43	6.5	33.39	8.0	25.1	0.82
I15	08 Feb 2023	9	12.92	88.57	6.3	33.41	8.0	25.2	0.82
I15	08 Feb 2023	10	12.78	88.63	6.0	33.42	7.9	25.2	0.81
I15	08 Feb 2023	11	12.50	88.47	5.7	33.45	7.9	25.3	0.62
I15	08 Feb 2023	12	12.26	89.13	5.5	33.46	7.9	25.3	0.53
I15	08 Feb 2023	13	12.17	89.80	5.5	33.46	7.9	25.4	0.46
I15	08 Feb 2023	14	12.14	90.67	5.5	33.46	7.9	25.4	0.46
I15	08 Feb 2023	15	12.13	91.36	5.5	33.46	7.9	25.4	0.47
I15	08 Feb 2023	16	12.11	91.80	5.5	33.47	7.9	25.4	0.46
I15	08 Feb 2023	17	12.10	91.71	5.5	33.48	7.9	25.4	0.51
I15	08 Feb 2023	18	12.10	91.71	5.4	33.48	7.9	25.4	0.58
I15	08 Feb 2023	19	12.09	91.66	5.3	33.49	7.9	25.4	0.55
I15	08 Feb 2023	20	11.96	91.17	5.1	33.53	7.9	25.5	0.54
I15	08 Feb 2023	21	11.79	90.79	4.8	33.57	7.8	25.5	0.45
I15	08 Feb 2023	22	11.78	90.15	4.7	33.56	7.8	25.5	0.41
I15	08 Feb 2023	23	11.78	88.90	4.7	33.57	7.8	25.5	0.40
I15	08 Feb 2023	24	11.78	88.07	4.7	33.57	7.8	25.5	0.40
I15	08 Feb 2023	25	11.78	88.03	4.8	33.57	7.8	25.5	0.41
I15	08 Feb 2023	26	11.77	88.09	4.8	33.57	7.8	25.5	0.41
I15	08 Feb 2023	27	11.77	88.13	4.8	33.57	7.8	25.5	0.41
I15	08 Feb 2023	28	11.78	87.99	4.7	33.57	7.8	25.5	0.43
I15	08 Feb 2023	29	11.77	87.57	4.7	33.57	7.8	25.5	0.43
I15	08 Feb 2023	30	11.77	87.08	4.7	33.57	7.8	25.5	0.42
I15	08 Feb 2023	31	11.77	87.02	4.7	33.57	7.8	25.5	0.41
I16	08 Feb 2023	1	14.06	84.26	8.2	33.30	8.1	24.9	0.99
I16	08 Feb 2023	2	13.96	83.74	8.2	33.30	8.1	24.9	1.10
I16	08 Feb 2023	3	13.92	83.17	8.2	33.30	8.1	24.9	1.28
I16	08 Feb 2023	4	13.89	82.82	8.1	33.30	8.1	24.9	1.48
I16	08 Feb 2023	5	13.77	82.61	7.8	33.32	8.1	24.9	1.77
I16	08 Feb 2023	6	13.57	83.13	7.5	33.34	8.1	25.0	1.91
I16	08 Feb 2023	7	13.41	84.37	7.2	33.36	8.0	25.0	1.63
I16	08 Feb 2023	8	13.04	86.18	6.5	33.40	8.0	25.1	1.39
I16	08 Feb 2023	9	12.60	87.09	6.0	33.44	8.0	25.3	1.20
I16	08 Feb 2023	10	12.53	87.95	5.8	33.44	7.9	25.3	0.95
I16	08 Feb 2023	11	12.43	89.14	5.8	33.45	7.9	25.3	0.79
I16	08 Feb 2023	12	12.30	89.79	5.7	33.45	7.9	25.3	0.65
I16	08 Feb 2023	13	12.24	90.37	5.6	33.45	7.9	25.3	0.75
I16	08 Feb 2023	14	12.24	90.45	5.6	33.45	7.9	25.3	0.67
I16	08 Feb 2023	15	12.25	90.54	5.6	33.46	7.9	25.3	0.61

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I16	08 Feb 2023	16	12.21	90.67	5.5	33.46	7.9	25.4	0.64
I16	08 Feb 2023	17	12.19	90.28	5.5	33.46	7.9	25.4	0.63
I16	08 Feb 2023	18	12.19	90.08	5.5	33.47	7.9	25.4	0.67
I16	08 Feb 2023	19	12.20	90.08	5.5	33.46	7.9	25.4	0.65
I16	08 Feb 2023	20	12.12	89.91	5.3	33.47	7.9	25.4	0.66
I16	08 Feb 2023	21	12.03	89.31	5.2	33.51	7.8	25.4	0.64
I16	08 Feb 2023	22	11.97	88.87	5.1	33.53	7.8	25.5	0.55
I16	08 Feb 2023	23	11.89	88.73	4.9	33.54	7.8	25.5	0.51
I16	08 Feb 2023	24	11.82	88.11	4.8	33.56	7.8	25.5	0.50
I16	08 Feb 2023	25	11.78	87.96	4.7	33.57	7.8	25.5	0.45
I16	08 Feb 2023	26	11.77	86.89	4.7	33.57	7.8	25.5	0.42
I16	08 Feb 2023	27	11.77	85.89	4.7	33.57	7.8	25.5	0.44
I16	08 Feb 2023	28	11.77	85.40	4.7	33.57	7.8	25.5	0.43
I17	08 Feb 2023	1	13.90	84.86	8.1	33.31	8.1	24.9	1.11
I17	08 Feb 2023	2	13.85	84.77	8.1	33.31	8.1	24.9	1.14
I17	08 Feb 2023	3	13.78	84.41	8.1	33.31	8.1	24.9	1.32
I17	08 Feb 2023	4	13.73	83.91	7.9	33.32	8.1	24.9	1.44
I17	08 Feb 2023	5	13.59	83.76	7.7	33.34	8.1	25.0	1.56
I17	08 Feb 2023	6	13.49	83.67	7.4	33.35	8.1	25.0	1.73
I17	08 Feb 2023	7	13.36	84.61	7.1	33.36	8.0	25.1	1.72
I17	08 Feb 2023	8	12.97	85.48	6.5	33.41	8.0	25.2	1.43
I17	08 Feb 2023	9	12.63	86.62	6.0	33.44	8.0	25.3	1.37
I17	08 Feb 2023	10	12.47	87.83	5.8	33.44	7.9	25.3	1.23
I17	08 Feb 2023	11	12.43	89.37	5.8	33.44	7.9	25.3	1.11
I17	08 Feb 2023	12	12.41	90.00	5.8	33.45	7.9	25.3	0.93
I17	08 Feb 2023	13	12.41	89.94	5.8	33.45	7.9	25.3	0.80
I17	08 Feb 2023	14	12.41	90.18	5.8	33.45	7.9	25.3	0.79
I17	08 Feb 2023	15	12.41	90.12	5.8	33.45	7.9	25.3	0.80
I17	08 Feb 2023	16	12.41	89.88	5.8	33.45	7.9	25.3	0.81
I17	08 Feb 2023	17	12.39	89.86	5.8	33.46	7.9	25.3	0.81
I17	08 Feb 2023	18	12.38	89.79	5.8	33.46	7.9	25.3	0.85
I17	08 Feb 2023	19	12.37	89.66	5.8	33.47	7.9	25.3	0.82
I17	08 Feb 2023	20	12.34	89.52	5.7	33.47	7.9	25.3	0.78
I17	08 Feb 2023	21	12.34	89.41	5.7	33.47	7.9	25.3	0.75
I17	08 Feb 2023	22	12.33	89.22	5.6	33.48	7.9	25.3	0.90
I17	08 Feb 2023	23	12.26	88.88	5.4	33.49	7.9	25.4	0.74
I17	08 Feb 2023	24	11.99	88.36	5.1	33.55	7.9	25.5	0.65
I17	08 Feb 2023	25	11.78	87.61	4.8	33.57	7.8	25.5	0.53
I18	08 Feb 2023	1	13.35	69.47	7.6	33.35	8.0	25.0	0.87
I18	08 Feb 2023	2	13.35	68.61	7.6	33.35	8.0	25.0	0.92
I18	08 Feb 2023	3	13.21	68.91	7.5	33.38	8.0	25.1	1.13
I18	08 Feb 2023	4	13.04	67.93	7.3	33.39	8.0	25.1	1.53
I18	08 Feb 2023	5	12.92	67.87	7.1	33.38	8.0	25.2	1.82
I18	08 Feb 2023	6	12.86	67.50	7.0	33.38	8.0	25.2	1.91
I18	08 Feb 2023	7	12.84	67.44	6.9	33.38	8.0	25.2	1.85
I18	08 Feb 2023	8	12.82	67.91	6.9	33.38	8.0	25.2	1.93
I18	08 Feb 2023	9	12.81	68.50	6.9	33.38	8.0	25.2	1.85
I18	08 Feb 2023	10	12.81	68.85	6.9	33.38	8.0	25.2	1.87
I18	08 Feb 2023	11	12.80	69.39	6.8	33.38	8.0	25.2	1.69
I18	08 Feb 2023	12	12.70	69.62	6.5	33.41	7.9	25.2	1.59
I18	08 Feb 2023	13	12.57	71.07	6.2	33.44	7.9	25.3	1.37
I18	08 Feb 2023	14	12.47	74.27	6.0	33.46	7.9	25.3	1.17
I18	08 Feb 2023	15	12.39	76.47	5.7	33.48	7.9	25.3	0.99
I18	08 Feb 2023	16	12.25	80.28	5.4	33.50	7.9	25.4	0.96
I18	08 Feb 2023	17	11.98	82.56	5.0	33.54	7.9	25.5	0.65
I18	08 Feb 2023	18	11.76	84.90	4.7	33.58	7.8	25.5	0.52
I18	08 Feb 2023	19	11.73	85.49	4.6	33.58	7.8	25.5	0.48
I2	07 Feb 2023	1	14.03	85.84	8.3	33.29	8.0	24.9	0.88

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I2	07 Feb 2023	2	14.01	85.53	8.3	33.29	8.0	24.9	0.98
I2	07 Feb 2023	3	13.95	85.63	8.3	33.29	8.0	24.9	1.12
I2	07 Feb 2023	4	13.93	85.09	8.3	33.29	8.0	24.9	1.34
I2	07 Feb 2023	5	13.92	85.04	8.2	33.30	8.0	24.9	1.51
I2	07 Feb 2023	6	13.83	85.58	8.0	33.31	8.0	24.9	1.64
I2	07 Feb 2023	7	13.74	86.38	7.8	33.32	8.0	24.9	1.68
I2	07 Feb 2023	8	13.70	86.90	7.7	33.33	8.0	25.0	1.72
I2	07 Feb 2023	9	13.62	87.87	7.5	33.34	8.0	25.0	1.41
I2	07 Feb 2023	10	13.61	88.88	7.4	33.34	7.9	25.0	1.41
I2	07 Feb 2023	11	13.44	89.19	7.0	33.37	7.9	25.0	1.29
I2	07 Feb 2023	12	13.41	90.47	6.9	33.37	7.9	25.0	1.20
I2	07 Feb 2023	13	13.35	90.90	6.8	33.37	7.9	25.1	1.05
I2	07 Feb 2023	14	13.32	91.34	6.7	33.38	7.9	25.1	1.06
I2	07 Feb 2023	15	13.25	91.41	6.7	33.38	7.9	25.1	1.13
I2	07 Feb 2023	16	13.21	91.75	6.6	33.38	7.9	25.1	1.07
I2	07 Feb 2023	17	13.15	91.85	6.5	33.38	7.9	25.1	1.11
I2	07 Feb 2023	18	13.08	91.87	6.4	33.38	7.9	25.1	1.11
I2	07 Feb 2023	19	12.89	91.99	6.3	33.39	7.8	25.2	1.06
I2	07 Feb 2023	20	12.86	92.23	6.2	33.38	7.8	25.2	0.98
I2	07 Feb 2023	21	12.66	92.64	6.0	33.39	7.8	25.2	0.85
I2	07 Feb 2023	22	12.50	92.66	5.8	33.43	7.8	25.3	0.78
I2	07 Feb 2023	23	12.40	91.37	5.5	33.46	7.8	25.3	0.74
I2	07 Feb 2023	24	12.38	88.62	5.4	33.47	7.8	25.3	0.69
I2	07 Feb 2023	25	12.34	85.11	5.4	33.49	7.8	25.4	0.65
I2	07 Feb 2023	26	12.35	82.68	5.4	33.49	7.8	25.3	0.65
I2	07 Feb 2023	27	12.34	82.13	5.4	33.49	7.8	25.4	0.67
I2	07 Feb 2023	28	12.34	81.19	5.4	33.49	7.8	25.4	0.70
I2	07 Feb 2023	29	12.34	80.49	5.4	33.49	7.8	25.4	0.67
I2	07 Feb 2023	30	12.34	80.31	5.4	33.49	7.8	25.4	0.67
I2	07 Feb 2023	31	12.34	80.20	5.4	33.49	7.8	25.4	0.66
I2	07 Feb 2023	32	12.34	80.15	5.4	33.49	7.8	25.4	0.70
I20	08 Feb 2023	1	14.03	86.94	8.5	33.28	8.1	24.8	0.77
I20	08 Feb 2023	2	14.02	86.57	8.5	33.28	8.1	24.9	0.76
I20	08 Feb 2023	3	14.02	87.65	8.5	33.28	8.1	24.9	0.82
I20	08 Feb 2023	4	14.02	87.85	8.5	33.28	8.1	24.9	0.91
I20	08 Feb 2023	5	14.02	87.85	8.5	33.28	8.1	24.9	1.12
I20	08 Feb 2023	6	14.00	87.89	8.3	33.28	8.1	24.9	1.08
I20	08 Feb 2023	7	13.93	87.84	8.0	33.29	8.1	24.9	1.09
I20	08 Feb 2023	8	13.71	88.21	7.6	33.32	8.1	24.9	1.14
I20	08 Feb 2023	9	13.58	88.70	7.3	33.33	8.0	25.0	1.26
I20	08 Feb 2023	10	13.51	89.12	7.2	33.34	8.0	25.0	1.38
I20	08 Feb 2023	11	13.43	89.63	7.0	33.34	8.0	25.0	1.21
I20	08 Feb 2023	12	13.25	89.92	6.7	33.37	8.0	25.1	1.19
I20	08 Feb 2023	13	13.13	90.33	6.5	33.38	8.0	25.1	1.05
I20	08 Feb 2023	14	13.05	90.66	6.4	33.38	8.0	25.1	1.16
I20	08 Feb 2023	15	12.99	91.04	6.3	33.39	7.9	25.1	0.96
I20	08 Feb 2023	16	12.96	91.29	6.3	33.39	7.9	25.2	0.86
I20	08 Feb 2023	17	12.91	91.24	6.2	33.40	7.9	25.2	0.82
I20	08 Feb 2023	18	12.87	91.31	6.2	33.40	7.9	25.2	0.85
I20	08 Feb 2023	19	12.81	91.28	6.1	33.41	7.9	25.2	0.80
I20	08 Feb 2023	20	12.75	91.35	6.1	33.41	7.9	25.2	0.78
I20	08 Feb 2023	21	12.73	91.40	6.0	33.41	7.9	25.2	0.76
I20	08 Feb 2023	22	12.69	91.51	6.0	33.41	7.9	25.2	0.72
I20	08 Feb 2023	23	12.66	91.53	5.9	33.41	7.9	25.2	0.74
I20	08 Feb 2023	24	12.52	91.77	5.9	33.42	7.9	25.3	0.71
I20	08 Feb 2023	25	12.42	92.37	5.8	33.42	7.9	25.3	0.75
I20	08 Feb 2023	26	12.35	92.81	5.7	33.43	7.9	25.3	0.67
I20	08 Feb 2023	27	12.26	92.91	5.6	33.44	7.9	25.3	0.63
I20	08 Feb 2023	28	12.19	93.05	5.6	33.45	7.9	25.3	0.56
I20	08 Feb 2023	29	12.15	93.17	5.5	33.45	7.9	25.4	0.53

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I20	08 Feb 2023	30	11.98	93.27	5.5	33.47	7.9	25.4	0.46
I20	08 Feb 2023	31	11.87	93.40	5.4	33.48	7.8	25.4	0.40
I20	08 Feb 2023	32	11.84	93.49	5.4	33.49	7.8	25.4	0.37
I20	08 Feb 2023	33	11.76	93.50	5.3	33.50	7.8	25.5	0.36
I20	08 Feb 2023	34	11.73	93.56	5.3	33.51	7.8	25.5	0.34
I20	08 Feb 2023	35	11.71	93.60	5.3	33.51	7.8	25.5	0.32
I20	08 Feb 2023	36	11.70	93.64	5.3	33.51	7.8	25.5	0.32
I20	08 Feb 2023	37	11.68	93.72	5.2	33.52	7.8	25.5	0.32
I20	08 Feb 2023	38	11.64	93.68	5.2	33.52	7.8	25.5	0.31
I20	08 Feb 2023	39	11.61	93.66	5.2	33.53	7.8	25.5	0.30
I20	08 Feb 2023	40	11.58	93.71	5.1	33.54	7.8	25.5	0.29
I20	08 Feb 2023	41	11.56	93.71	5.1	33.55	7.8	25.5	0.29
I20	08 Feb 2023	42	11.56	93.75	5.1	33.55	7.8	25.5	0.28
I20	08 Feb 2023	43	11.55	93.77	5.1	33.55	7.8	25.5	0.27
I20	08 Feb 2023	44	11.55	93.77	5.0	33.55	7.8	25.5	0.26
I20	08 Feb 2023	45	11.51	93.71	5.0	33.56	7.8	25.6	0.26
I20	08 Feb 2023	46	11.46	93.69	4.8	33.58	7.8	25.6	0.26
I20	08 Feb 2023	47	11.43	93.31	4.7	33.59	7.8	25.6	0.24
I20	08 Feb 2023	48	11.42	93.37	4.7	33.60	7.8	25.6	0.24
I20	08 Feb 2023	49	11.32	93.14	4.3	33.62	7.8	25.6	0.22
I20	08 Feb 2023	50	11.27	92.46	4.1	33.63	7.8	25.7	0.21
I20	08 Feb 2023	51	11.23	91.95	4.0	33.64	7.8	25.7	0.20
I20	08 Feb 2023	52	11.24	91.80	4.0	33.67	7.8	25.7	0.20
I20	08 Feb 2023	53	11.26	91.47	4.0	33.68	7.8	25.7	0.20
I20	08 Feb 2023	54	11.26	91.06	4.1	33.68	7.8	25.7	0.20
I20	08 Feb 2023	55	11.27	91.06	4.1	33.68	7.8	25.7	0.20
I21	08 Feb 2023	1	13.80	87.34	8.2	33.30	8.1	24.9	0.85
I21	08 Feb 2023	2	13.80	86.84	8.2	33.30	8.1	24.9	0.80
I21	08 Feb 2023	3	13.79	86.78	8.2	33.30	8.1	24.9	0.94
I21	08 Feb 2023	4	13.78	86.95	8.2	33.30	8.1	24.9	1.00
I21	08 Feb 2023	5	13.77	86.93	8.2	33.30	8.1	24.9	1.26
I21	08 Feb 2023	6	13.77	86.81	8.2	33.30	8.1	24.9	1.45
I21	08 Feb 2023	7	13.77	86.80	8.2	33.30	8.1	24.9	1.48
I21	08 Feb 2023	8	13.76	86.86	8.0	33.30	8.1	24.9	1.62
I21	08 Feb 2023	9	13.68	87.10	7.5	33.32	8.1	25.0	1.49
I21	08 Feb 2023	10	13.53	85.93	7.2	33.34	8.0	25.0	1.34
I21	08 Feb 2023	11	13.47	88.99	7.0	33.34	8.0	25.0	1.28
I21	08 Feb 2023	12	13.32	89.25	6.7	33.36	8.0	25.1	1.17
I21	08 Feb 2023	13	13.07	90.42	6.4	33.38	8.0	25.1	0.98
I21	08 Feb 2023	14	13.02	91.15	6.3	33.38	7.9	25.1	0.88
I21	08 Feb 2023	15	12.84	91.86	6.1	33.40	7.9	25.2	0.81
I21	08 Feb 2023	16	12.75	91.75	6.0	33.41	7.9	25.2	0.72
I21	08 Feb 2023	17	12.65	91.44	5.9	33.42	7.9	25.2	0.69
I21	08 Feb 2023	18	12.53	91.45	5.8	33.43	7.9	25.3	0.65
I21	08 Feb 2023	19	12.40	91.55	5.6	33.44	7.9	25.3	0.63
I21	08 Feb 2023	20	12.31	91.69	5.5	33.45	7.9	25.3	0.59
I21	08 Feb 2023	21	12.28	91.61	5.5	33.45	7.9	25.3	0.59
I21	08 Feb 2023	22	12.24	91.52	5.4	33.45	7.9	25.3	0.59
I21	08 Feb 2023	23	12.21	91.34	5.4	33.46	7.9	25.4	0.55
I21	08 Feb 2023	24	12.19	91.35	5.4	33.46	7.9	25.4	0.55
I21	08 Feb 2023	25	12.17	91.19	5.4	33.47	7.9	25.4	0.53
I21	08 Feb 2023	26	12.10	91.36	5.3	33.47	7.8	25.4	0.53
I21	08 Feb 2023	27	11.93	92.05	5.3	33.48	7.8	25.4	0.50
I21	08 Feb 2023	28	11.82	92.67	5.3	33.49	7.8	25.4	0.49
I21	08 Feb 2023	29	11.77	93.20	5.2	33.50	7.8	25.5	0.48
I21	08 Feb 2023	30	11.70	93.35	5.2	33.51	7.8	25.5	0.42
I21	08 Feb 2023	31	11.67	93.50	5.2	33.52	7.8	25.5	0.39
I21	08 Feb 2023	32	11.66	93.48	5.2	33.52	7.8	25.5	0.37
I21	08 Feb 2023	33	11.61	93.40	5.1	33.53	7.8	25.5	0.34
I21	08 Feb 2023	34	11.59	93.38	5.1	33.54	7.8	25.5	0.34

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I21	08 Feb 2023	35	11.57	93.45	5.0	33.56	7.8	25.5	0.32
I21	08 Feb 2023	36	11.55	92.93	4.7	33.59	7.8	25.6	0.32
I21	08 Feb 2023	37	11.56	91.89	4.5	33.61	7.8	25.6	0.32
I21	08 Feb 2023	38	11.56	91.36	4.5	33.61	7.8	25.6	0.32
I21	08 Feb 2023	39	11.56	91.15	4.5	33.61	7.8	25.6	0.32
I21	08 Feb 2023	40	11.56	91.06	4.5	33.61	7.8	25.6	0.30
I21	08 Feb 2023	41	11.56	91.05	4.5	33.61	7.8	25.6	0.31
I22	08 Feb 2023	1	13.97	84.01	8.3	33.30	8.1	24.9	1.23
I22	08 Feb 2023	2	13.94	84.01	8.3	33.30	8.1	24.9	1.34
I22	08 Feb 2023	3	13.89	83.62	8.3	33.30	8.1	24.9	1.47
I22	08 Feb 2023	4	13.88	83.37	8.3	33.30	8.1	24.9	1.88
I22	08 Feb 2023	5	13.87	82.95	8.2	33.30	8.1	24.9	2.08
I22	08 Feb 2023	6	13.83	82.75	8.1	33.30	8.1	24.9	2.17
I22	08 Feb 2023	7	13.78	82.86	8.0	33.31	8.1	24.9	2.30
I22	08 Feb 2023	8	13.72	83.38	7.8	33.32	8.1	24.9	2.38
I22	08 Feb 2023	9	13.57	84.05	7.5	33.34	8.1	25.0	2.25
I22	08 Feb 2023	10	13.38	85.04	7.1	33.36	8.0	25.0	1.92
I22	08 Feb 2023	11	13.03	86.26	6.6	33.40	8.0	25.1	1.48
I22	08 Feb 2023	12	12.77	86.92	6.1	33.42	8.0	25.2	1.19
I22	08 Feb 2023	13	12.41	87.36	5.8	33.45	7.9	25.3	1.02
I22	08 Feb 2023	14	12.31	88.52	5.7	33.46	7.9	25.3	0.91
I22	08 Feb 2023	15	12.33	89.51	5.7	33.46	7.9	25.3	0.78
I22	08 Feb 2023	16	12.27	89.79	5.7	33.47	7.9	25.3	0.77
I22	08 Feb 2023	17	12.26	89.35	5.7	33.47	7.9	25.4	0.69
I22	08 Feb 2023	18	12.25	89.86	5.6	33.47	7.9	25.4	0.69
I22	08 Feb 2023	19	12.18	89.74	5.5	33.49	7.9	25.4	0.70
I22	08 Feb 2023	20	12.10	89.48	5.3	33.51	7.9	25.4	0.75
I22	08 Feb 2023	21	11.86	89.37	4.9	33.55	7.8	25.5	0.62
I22	08 Feb 2023	22	11.68	88.59	4.7	33.58	7.8	25.5	0.47
I22	08 Feb 2023	23	11.67	87.31	4.6	33.58	7.8	25.6	0.42
I22	08 Feb 2023	24	11.67	86.65	4.6	33.58	7.8	25.6	0.40
I22	08 Feb 2023	25	11.67	86.13	4.6	33.58	7.8	25.6	0.39
I22	08 Feb 2023	26	11.67	85.80	4.6	33.58	7.8	25.6	0.40
I22	08 Feb 2023	27	11.67	85.68	4.6	33.59	7.8	25.6	0.40
I22	08 Feb 2023	28	11.67	85.62	4.6	33.59	7.8	25.6	0.39
I23	08 Feb 2023	1	13.37	62.43	7.5	33.39	8.0	25.1	1.00
I23	08 Feb 2023	2	13.35	62.33	7.5	33.39	8.0	25.1	0.92
I23	08 Feb 2023	3	13.26	61.75	7.4	33.39	8.0	25.1	1.29
I23	08 Feb 2023	4	13.23	62.05	7.4	33.39	8.0	25.1	1.75
I23	08 Feb 2023	5	13.22	62.84	7.4	33.39	8.0	25.1	2.10
I23	08 Feb 2023	6	13.21	63.36	7.3	33.39	8.0	25.1	2.33
I23	08 Feb 2023	7	13.18	63.84	7.3	33.39	8.0	25.1	2.48
I23	08 Feb 2023	8	13.17	64.58	7.3	33.39	8.0	25.1	2.42
I23	08 Feb 2023	9	13.15	65.20	7.2	33.39	8.0	25.1	2.54
I23	08 Feb 2023	10	13.13	66.15	7.2	33.39	8.0	25.1	2.40
I23	08 Feb 2023	11	13.13	67.74	7.2	33.39	8.0	25.1	2.32
I23	08 Feb 2023	12	13.13	68.70	7.2	33.39	8.0	25.1	2.33
I23	08 Feb 2023	13	13.12	69.07	7.2	33.39	8.0	25.1	2.33
I23	08 Feb 2023	14	13.12	69.31	7.2	33.39	8.0	25.1	2.10
I23	08 Feb 2023	15	13.12	69.62	7.2	33.39	8.0	25.1	2.25
I23	08 Feb 2023	16	13.11	69.68	7.1	33.39	8.0	25.1	2.32
I23	08 Feb 2023	17	12.95	70.30	6.9	33.41	8.0	25.2	2.12
I23	08 Feb 2023	18	12.89	71.66	6.7	33.42	8.0	25.2	1.90
I23	08 Feb 2023	19	12.85	73.87	6.4	33.42	8.0	25.2	1.61
I23	08 Feb 2023	20	12.21	74.94	5.4	33.52	7.9	25.4	1.26
I23	08 Feb 2023	21	11.73	77.72	4.7	33.58	7.8	25.5	0.78
I27	08 Feb 2023	1	13.92	83.34	8.2	33.29	8.1	24.9	1.33
I27	08 Feb 2023	2	13.91	83.33	8.1	33.29	8.1	24.9	1.36

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I27	08 Feb 2023	3	13.88	83.29	8.1	33.29	8.1	24.9	1.49
I27	08 Feb 2023	4	13.86	83.11	8.0	33.30	8.1	24.9	1.62
I27	08 Feb 2023	5	13.81	83.23	7.8	33.30	8.1	24.9	1.78
I27	08 Feb 2023	6	13.66	83.66	7.4	33.33	8.1	25.0	1.60
I27	08 Feb 2023	7	13.35	85.09	6.8	33.37	8.0	25.1	1.25
I27	08 Feb 2023	8	13.12	87.55	6.5	33.39	8.0	25.1	1.13
I27	08 Feb 2023	9	13.14	89.11	6.4	33.38	8.0	25.1	1.25
I27	08 Feb 2023	10	12.96	89.56	6.3	33.41	8.0	25.2	1.08
I27	08 Feb 2023	11	12.87	89.61	6.1	33.41	7.9	25.2	0.97
I27	08 Feb 2023	12	12.76	89.44	6.0	33.43	7.9	25.2	1.12
I27	08 Feb 2023	13	12.61	89.44	5.8	33.44	7.9	25.3	0.94
I27	08 Feb 2023	14	12.38	89.28	5.6	33.47	7.9	25.3	0.88
I27	08 Feb 2023	15	12.22	89.15	5.5	33.48	7.9	25.4	0.76
I27	08 Feb 2023	16	12.11	89.04	5.4	33.49	7.9	25.4	0.64
I27	08 Feb 2023	17	12.09	89.15	5.4	33.49	7.9	25.4	0.61
I27	08 Feb 2023	18	12.06	89.43	5.3	33.50	7.9	25.4	0.57
I27	08 Feb 2023	19	11.98	89.54	5.1	33.52	7.9	25.4	0.56
I27	08 Feb 2023	20	11.70	89.44	4.8	33.57	7.8	25.5	0.48
I27	08 Feb 2023	21	11.60	88.71	4.6	33.59	7.8	25.6	0.41
I27	08 Feb 2023	22	11.60	87.77	4.5	33.59	7.8	25.6	0.40
I27	08 Feb 2023	23	11.59	86.93	4.5	33.59	7.8	25.6	0.39
I27	08 Feb 2023	24	11.59	86.22	4.6	33.59	7.8	25.6	0.38
I27	08 Feb 2023	25	11.59	85.90	4.6	33.59	7.8	25.6	0.37
I27	08 Feb 2023	26	11.59	85.73	4.6	33.59	7.8	25.6	0.40
I27	08 Feb 2023	27	11.59	85.30	4.6	33.60	7.8	25.6	0.36
I27	08 Feb 2023	28	11.59	84.80	4.6	33.60	7.8	25.6	0.37
I28	09 Feb 2023	1	13.81	82.70	8.3	33.31	8.1	24.9	1.79
I28	09 Feb 2023	2	13.81	82.56	8.3	33.31	8.1	24.9	1.96
I28	09 Feb 2023	3	13.81	82.64	8.3	33.31	8.1	24.9	2.19
I28	09 Feb 2023	4	13.81	82.64	8.3	33.31	8.1	24.9	2.59
I28	09 Feb 2023	5	13.81	82.67	8.3	33.31	8.1	24.9	2.73
I28	09 Feb 2023	6	13.79	82.50	8.1	33.31	8.1	24.9	2.75
I28	09 Feb 2023	7	13.78	82.64	8.1	33.31	8.1	24.9	2.92
I28	09 Feb 2023	8	13.75	83.18	7.9	33.32	8.1	24.9	2.83
I28	09 Feb 2023	9	13.65	84.41	7.6	33.34	8.1	25.0	2.61
I28	09 Feb 2023	10	13.54	85.57	7.2	33.35	8.1	25.0	2.32
I28	09 Feb 2023	11	13.02	86.71	6.5	33.40	8.0	25.2	1.83
I28	09 Feb 2023	12	13.08	88.20	6.4	33.39	8.0	25.1	1.58
I28	09 Feb 2023	13	12.77	89.01	6.0	33.42	8.0	25.2	1.01
I28	09 Feb 2023	14	12.61	89.80	5.8	33.44	7.9	25.3	0.78
I28	09 Feb 2023	15	12.49	90.57	5.6	33.44	7.9	25.3	0.64
I28	09 Feb 2023	16	12.39	90.83	5.6	33.44	7.9	25.3	0.60
I28	09 Feb 2023	17	12.31	91.43	5.6	33.44	7.9	25.3	0.55
I28	09 Feb 2023	18	12.24	91.99	5.6	33.45	7.9	25.3	0.56
I28	09 Feb 2023	19	12.09	92.34	5.4	33.46	7.9	25.4	0.54
I28	09 Feb 2023	20	11.99	92.83	5.3	33.48	7.9	25.4	0.49
I28	09 Feb 2023	21	11.95	92.84	5.3	33.48	7.9	25.4	0.46
I28	09 Feb 2023	22	11.93	92.92	5.2	33.49	7.8	25.4	0.46
I28	09 Feb 2023	23	11.90	93.00	5.2	33.49	7.8	25.4	0.43
I28	09 Feb 2023	24	11.84	93.09	5.0	33.51	7.8	25.5	0.43
I28	09 Feb 2023	25	11.71	92.94	4.8	33.55	7.8	25.5	0.37
I28	09 Feb 2023	26	11.69	92.56	4.7	33.56	7.8	25.5	0.33
I28	09 Feb 2023	27	11.63	92.48	4.6	33.58	7.8	25.6	0.31
I28	09 Feb 2023	28	11.61	92.49	4.6	33.58	7.8	25.6	0.30
I28	09 Feb 2023	29	11.61	92.47	4.6	33.58	7.8	25.6	0.29
I28	09 Feb 2023	30	11.61	92.45	4.6	33.58	7.8	25.6	0.30
I28	09 Feb 2023	31	11.61	92.49	4.6	33.58	7.8	25.6	0.29
I28	09 Feb 2023	32	11.61	92.52	4.6	33.58	7.8	25.6	0.28
I28	09 Feb 2023	33	11.60	92.47	4.6	33.58	7.8	25.6	0.29
I28	09 Feb 2023	34	11.60	92.43	4.6	33.59	7.8	25.6	0.28

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I28	09 Feb 2023	35	11.60	92.43	4.6	33.59	7.8	25.6	0.27
I28	09 Feb 2023	36	11.60	92.54	4.6	33.59	7.8	25.6	0.29
I28	09 Feb 2023	37	11.59	92.51	4.6	33.59	7.8	25.6	0.28
I28	09 Feb 2023	38	11.59	92.49	4.6	33.59	7.8	25.6	0.28
I28	09 Feb 2023	39	11.58	92.47	4.6	33.59	7.8	25.6	0.29
I28	09 Feb 2023	40	11.57	92.50	4.6	33.59	7.8	25.6	0.28
I28	09 Feb 2023	41	11.56	92.58	4.6	33.59	7.8	25.6	0.28
I28	09 Feb 2023	42	11.53	92.65	4.6	33.59	7.8	25.6	0.27
I28	09 Feb 2023	43	11.48	92.70	4.6	33.60	7.8	25.6	0.26
I28	09 Feb 2023	44	11.47	92.94	4.6	33.60	7.8	25.6	0.25
I28	09 Feb 2023	45	11.46	92.92	4.6	33.60	7.8	25.6	0.25
I28	09 Feb 2023	46	11.39	92.89	4.5	33.62	7.8	25.6	0.24
I28	09 Feb 2023	47	11.34	92.97	4.5	33.63	7.8	25.6	0.23
I28	09 Feb 2023	48	11.33	92.94	4.4	33.63	7.8	25.6	0.22
I28	09 Feb 2023	49	11.31	92.86	4.4	33.63	7.8	25.7	0.21
I28	09 Feb 2023	50	11.28	92.75	4.4	33.64	7.8	25.7	0.21
I28	09 Feb 2023	51	11.27	92.56	4.4	33.64	7.8	25.7	0.21
I28	09 Feb 2023	52	11.25	92.35	4.3	33.65	7.8	25.7	0.21
I28	09 Feb 2023	53	11.23	92.01	4.3	33.66	7.8	25.7	0.21
I28	09 Feb 2023	54	11.23	91.65	4.3	33.66	7.8	25.7	0.20
I28	09 Feb 2023	55	11.22	91.51	4.3	33.66	7.8	25.7	0.21
I29	09 Feb 2023	1	13.77	82.91	8.3	33.30	8.1	24.9	1.77
I29	09 Feb 2023	2	13.77	83.15	8.3	33.30	8.1	24.9	1.87
I29	09 Feb 2023	3	13.76	82.94	8.3	33.30	8.1	24.9	2.14
I29	09 Feb 2023	4	13.74	83.39	8.2	33.31	8.1	24.9	2.41
I29	09 Feb 2023	5	13.73	83.40	8.1	33.31	8.1	24.9	2.68
I29	09 Feb 2023	6	13.73	83.63	8.1	33.31	8.1	24.9	2.74
I29	09 Feb 2023	7	13.66	83.60	7.9	33.31	8.1	25.0	2.82
I29	09 Feb 2023	8	13.59	84.66	7.4	33.33	8.1	25.0	2.61
I29	09 Feb 2023	9	13.06	86.35	6.3	33.39	8.0	25.1	1.59
I29	09 Feb 2023	10	12.93	88.89	6.0	33.40	8.0	25.2	1.02
I29	09 Feb 2023	11	12.82	89.84	5.9	33.41	7.9	25.2	0.86
I29	09 Feb 2023	12	12.76	90.32	5.9	33.42	7.9	25.2	0.83
I29	09 Feb 2023	13	12.74	90.34	5.8	33.42	7.9	25.2	0.82
I29	09 Feb 2023	14	12.73	90.37	5.8	33.42	7.9	25.2	0.80
I29	09 Feb 2023	15	12.70	90.37	5.8	33.43	7.9	25.2	0.84
I29	09 Feb 2023	16	12.65	90.36	5.8	33.44	7.9	25.3	0.87
I29	09 Feb 2023	17	12.61	89.72	5.7	33.45	7.9	25.3	0.97
I29	09 Feb 2023	18	12.51	89.15	5.6	33.46	7.9	25.3	1.12
I29	09 Feb 2023	19	12.43	88.32	5.5	33.47	7.9	25.3	1.12
I29	09 Feb 2023	20	12.24	87.37	5.3	33.50	7.9	25.4	0.99
I29	09 Feb 2023	21	12.02	87.44	5.1	33.52	7.9	25.4	0.80
I29	09 Feb 2023	22	11.88	87.85	4.8	33.54	7.8	25.5	0.77
I29	09 Feb 2023	23	11.69	88.16	4.7	33.57	7.8	25.5	0.62
I29	09 Feb 2023	24	11.63	88.37	4.6	33.57	7.8	25.6	0.47
I29	09 Feb 2023	25	11.55	88.69	4.6	33.58	7.8	25.6	0.39
I29	09 Feb 2023	26	11.52	89.91	4.6	33.59	7.8	25.6	0.33
I29	09 Feb 2023	27	11.52	90.95	4.6	33.59	7.8	25.6	0.35
I29	09 Feb 2023	28	11.48	89.37	4.6	33.59	7.8	25.6	0.30
I29	09 Feb 2023	29	11.44	91.80	4.6	33.60	7.8	25.6	0.29
I29	09 Feb 2023	30	11.39	92.01	4.5	33.61	7.8	25.6	0.27
I29	09 Feb 2023	31	11.38	92.26	4.5	33.62	7.8	25.6	0.28
I29	09 Feb 2023	32	11.37	92.17	4.5	33.62	7.8	25.6	0.27
I29	09 Feb 2023	33	11.36	91.93	4.5	33.62	7.8	25.6	0.27
I29	09 Feb 2023	34	11.36	91.31	4.4	33.62	7.8	25.6	0.27
I29	09 Feb 2023	35	11.35	90.71	4.4	33.62	7.8	25.6	0.27
I29	09 Feb 2023	36	11.35	90.18	4.4	33.62	7.8	25.6	0.26
I29	09 Feb 2023	37	11.35	90.06	4.4	33.63	7.8	25.6	0.27
I29	09 Feb 2023	38	11.35	89.50	4.4	33.63	7.8	25.6	0.28

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I3	07 Feb 2023	1	13.83	85.86	7.9	33.31	8.0	24.9	0.70
I3	07 Feb 2023	2	13.75	85.96	7.8	33.32	8.0	24.9	0.68
I3	07 Feb 2023	3	13.71	85.69	7.8	33.31	8.0	24.9	0.77
I3	07 Feb 2023	4	13.67	85.67	7.7	33.32	8.0	25.0	0.94
I3	07 Feb 2023	5	13.53	85.52	7.3	33.34	8.0	25.0	0.97
I3	07 Feb 2023	6	13.39	86.32	6.9	33.36	7.9	25.0	0.88
I3	07 Feb 2023	7	13.24	89.30	6.6	33.38	7.9	25.1	0.76
I3	07 Feb 2023	8	13.13	90.42	6.5	33.38	7.9	25.1	0.77
I3	07 Feb 2023	9	13.03	90.72	6.3	33.39	7.8	25.1	0.66
I3	07 Feb 2023	10	12.91	90.74	6.2	33.39	7.8	25.2	0.65
I3	07 Feb 2023	11	12.77	90.63	6.1	33.40	7.8	25.2	0.75
I3	07 Feb 2023	12	12.75	90.82	6.0	33.41	7.8	25.2	0.67
I3	07 Feb 2023	13	12.56	91.10	5.8	33.44	7.8	25.3	0.58
I3	07 Feb 2023	14	12.40	90.12	5.5	33.46	7.8	25.3	0.53
I3	07 Feb 2023	15	12.40	87.70	5.5	33.46	7.8	25.3	0.59
I3	07 Feb 2023	16	12.40	86.98	5.5	33.46	7.8	25.3	0.60
I3	07 Feb 2023	17	12.40	86.52	5.5	33.46	7.8	25.3	0.61
I3	07 Feb 2023	18	12.40	85.69	5.5	33.47	7.8	25.3	0.67
I3	07 Feb 2023	19	12.41	85.02	5.5	33.47	7.8	25.3	0.73
I3	07 Feb 2023	20	12.41	84.38	5.5	33.47	7.8	25.3	0.70
I3	07 Feb 2023	21	12.41	83.76	5.5	33.47	7.8	25.3	0.69
I3	07 Feb 2023	22	12.41	82.35	5.5	33.47	7.8	25.3	0.75
I3	07 Feb 2023	23	12.41	79.67	5.5	33.47	7.8	25.3	0.80
I3	07 Feb 2023	24	12.41	78.50	5.5	33.47	7.8	25.3	0.80
I3	07 Feb 2023	25	12.41	77.49	5.5	33.47	7.8	25.3	0.81
I3	07 Feb 2023	26	12.42	75.31	5.5	33.47	7.8	25.3	0.84
I3	07 Feb 2023	27	12.42	71.99	5.5	33.47	7.8	25.3	0.85
I30	09 Feb 2023	1	13.64	79.71	8.3	33.32	8.1	25.0	2.07
I30	09 Feb 2023	2	13.62	79.48	8.3	33.32	8.1	25.0	2.34
I30	09 Feb 2023	3	13.61	79.57	8.2	33.32	8.1	25.0	2.81
I30	09 Feb 2023	4	13.60	79.35	8.2	33.33	8.1	25.0	3.69
I30	09 Feb 2023	5	13.57	79.36	8.1	33.33	8.1	25.0	4.05
I30	09 Feb 2023	6	13.55	79.49	8.0	33.33	8.1	25.0	4.07
I30	09 Feb 2023	7	13.53	79.78	8.0	33.34	8.1	25.0	4.15
I30	09 Feb 2023	8	13.50	79.79	8.0	33.34	8.1	25.0	4.49
I30	09 Feb 2023	9	13.48	79.56	8.1	33.34	8.1	25.0	4.57
I30	09 Feb 2023	10	13.46	79.42	7.9	33.35	8.1	25.0	4.54
I30	09 Feb 2023	11	13.45	80.24	7.8	33.35	8.1	25.0	4.06
I30	09 Feb 2023	12	13.44	80.96	7.7	33.35	8.1	25.0	3.71
I30	09 Feb 2023	13	13.41	81.47	7.5	33.36	8.1	25.0	3.60
I30	09 Feb 2023	14	13.32	82.21	7.2	33.37	8.0	25.1	3.28
I30	09 Feb 2023	15	13.22	83.06	6.9	33.38	8.0	25.1	2.99
I30	09 Feb 2023	16	13.08	83.96	6.7	33.40	8.0	25.1	2.45
I30	09 Feb 2023	17	12.76	85.25	6.3	33.44	8.0	25.2	2.08
I30	09 Feb 2023	18	12.64	86.30	6.1	33.45	8.0	25.3	1.71
I30	09 Feb 2023	19	12.52	86.71	5.8	33.46	7.9	25.3	1.47
I30	09 Feb 2023	20	12.26	87.13	5.4	33.49	7.9	25.4	1.18
I30	09 Feb 2023	21	11.87	87.84	5.0	33.54	7.9	25.5	0.83
I30	09 Feb 2023	22	11.62	89.71	4.8	33.57	7.8	25.5	0.62
I30	09 Feb 2023	23	11.59	89.43	4.7	33.58	7.8	25.6	0.44
I30	09 Feb 2023	24	11.59	88.13	4.6	33.58	7.8	25.6	0.39
I30	09 Feb 2023	25	11.58	87.05	4.6	33.58	7.8	25.6	0.40
I30	09 Feb 2023	26	11.57	86.17	4.6	33.59	7.8	25.6	0.40
I30	09 Feb 2023	27	11.57	85.54	4.6	33.59	7.8	25.6	0.40
I30	09 Feb 2023	28	11.57	84.44	4.6	33.59	7.8	25.6	0.40
I31	09 Feb 2023	1	13.51	77.15	8.1	33.34	8.1	25.0	1.59
I31	09 Feb 2023	2	13.50	77.01	8.1	33.35	8.1	25.0	1.71
I31	09 Feb 2023	3	13.47	76.85	8.1	33.35	8.1	25.0	2.37
I31	09 Feb 2023	4	13.46	76.93	8.0	33.35	8.1	25.0	3.07

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I31	09 Feb 2023	5	13.24	76.68	7.2	33.38	8.1	25.1	3.17
I31	09 Feb 2023	6	12.51	77.64	5.7	33.48	8.0	25.3	1.94
I31	09 Feb 2023	7	12.05	84.52	5.0	33.52	7.9	25.4	1.10
I31	09 Feb 2023	8	11.98	88.93	4.9	33.51	7.8	25.4	0.64
I31	09 Feb 2023	9	11.85	89.90	5.0	33.52	7.8	25.5	0.51
I31	09 Feb 2023	10	11.80	90.30	5.0	33.53	7.8	25.5	0.47
I31	09 Feb 2023	11	11.79	90.57	5.0	33.53	7.8	25.5	0.47
I31	09 Feb 2023	12	11.77	90.80	5.0	33.53	7.8	25.5	0.46
I31	09 Feb 2023	13	11.74	90.95	5.0	33.53	7.8	25.5	0.41
I31	09 Feb 2023	14	11.68	91.27	4.9	33.55	7.8	25.5	0.40
I31	09 Feb 2023	15	11.61	91.48	4.8	33.57	7.8	25.5	0.40
I31	09 Feb 2023	16	11.61	90.92	4.6	33.59	7.8	25.6	0.40
I31	09 Feb 2023	17	11.61	87.66	4.5	33.59	7.8	25.6	0.42
I31	09 Feb 2023	18	11.62	84.89	4.6	33.59	7.8	25.6	0.44
I31	09 Feb 2023	19	11.62	84.11	4.5	33.59	7.8	25.6	0.46
I33	09 Feb 2023	1	13.71	84.24	8.2	33.32	8.1	24.9	1.89
I33	09 Feb 2023	2	13.71	84.10	8.2	33.32	8.1	24.9	2.10
I33	09 Feb 2023	3	13.71	84.38	8.2	33.32	8.1	24.9	2.47
I33	09 Feb 2023	4	13.70	84.44	8.2	33.32	8.1	24.9	2.65
I33	09 Feb 2023	5	13.63	84.44	8.0	33.32	8.1	25.0	2.56
I33	09 Feb 2023	6	13.50	84.96	7.5	33.34	8.1	25.0	2.59
I33	09 Feb 2023	7	13.37	85.88	6.9	33.36	8.0	25.0	2.25
I33	09 Feb 2023	8	12.70	86.26	5.9	33.44	8.0	25.2	1.46
I33	09 Feb 2023	9	12.56	88.95	5.6	33.44	7.9	25.3	0.87
I33	09 Feb 2023	10	12.41	89.07	5.5	33.46	7.9	25.3	0.78
I33	09 Feb 2023	11	12.34	90.36	5.4	33.46	7.9	25.3	0.66
I33	09 Feb 2023	12	12.33	90.76	5.4	33.47	7.9	25.3	0.62
I33	09 Feb 2023	13	12.19	90.67	5.2	33.49	7.9	25.4	0.55
I33	09 Feb 2023	14	12.15	90.32	5.2	33.49	7.9	25.4	0.63
I33	09 Feb 2023	15	12.12	90.17	5.2	33.50	7.9	25.4	0.57
I33	09 Feb 2023	16	12.10	90.11	5.1	33.51	7.8	25.4	0.54
I33	09 Feb 2023	17	12.05	89.67	5.1	33.51	7.8	25.4	0.57
I33	09 Feb 2023	18	12.05	89.43	5.0	33.51	7.8	25.4	0.53
I33	09 Feb 2023	19	11.96	89.39	4.9	33.53	7.8	25.5	0.53
I33	09 Feb 2023	20	11.81	88.68	4.8	33.56	7.8	25.5	0.56
I33	09 Feb 2023	21	11.77	86.58	4.7	33.56	7.8	25.5	0.71
I33	09 Feb 2023	22	11.59	85.31	4.5	33.60	7.8	25.6	0.49
I33	09 Feb 2023	23	11.47	85.58	4.3	33.62	7.8	25.6	0.41
I33	09 Feb 2023	24	11.47	83.86	4.3	33.62	7.8	25.6	0.38
I33	09 Feb 2023	25	11.48	80.44	4.3	33.62	7.8	25.6	0.37
I33	09 Feb 2023	26	11.48	78.33	4.3	33.62	7.8	25.6	0.36
I33	09 Feb 2023	27	11.48	77.69	4.3	33.63	7.8	25.6	0.36
I33	09 Feb 2023	28	11.48	77.26	4.3	33.63	7.8	25.6	0.37
I33	09 Feb 2023	29	11.48	76.79	4.3	33.63	7.8	25.6	0.37
I33	09 Feb 2023	30	11.48	76.10	4.2	33.63	7.8	25.6	0.39
I34	09 Feb 2023	1	13.62	81.12	7.8	33.28	8.0	24.9	1.88
I34	09 Feb 2023	2	13.62	81.13	7.8	33.28	8.0	24.9	1.96
I34	09 Feb 2023	3	13.61	81.37	7.8	33.28	8.0	24.9	2.10
I34	09 Feb 2023	4	13.62	81.24	7.8	33.28	8.0	24.9	2.31
I34	09 Feb 2023	5	13.62	81.20	7.8	33.28	8.0	24.9	2.37
I34	09 Feb 2023	6	13.62	81.45	7.8	33.28	8.0	24.9	2.38
I34	09 Feb 2023	7	13.63	81.67	7.8	33.28	8.0	24.9	2.41
I34	09 Feb 2023	8	13.63	81.70	7.8	33.29	8.0	24.9	2.32
I34	09 Feb 2023	9	13.57	82.32	7.4	33.32	8.1	25.0	2.35
I34	09 Feb 2023	10	13.11	83.53	6.7	33.39	8.0	25.1	2.01
I34	09 Feb 2023	11	13.03	85.01	6.4	33.39	8.0	25.1	1.71
I34	09 Feb 2023	12	12.89	84.70	6.3	33.41	8.0	25.2	1.61
I34	09 Feb 2023	13	12.74	83.83	6.0	33.43	7.9	25.2	1.25
I34	09 Feb 2023	14	12.60	83.04	5.7	33.45	7.9	25.3	1.20

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I34	09 Feb 2023	15	12.21	82.08	5.2	33.51	7.9	25.4	1.10
I34	09 Feb 2023	16	11.89	80.39	4.7	33.56	7.8	25.5	0.89
I34	09 Feb 2023	17	11.83	72.32	4.6	33.56	7.8	25.5	0.82
I34	09 Feb 2023	18	11.78	64.75	4.5	33.57	7.8	25.5	0.83
I34	09 Feb 2023	19	11.78	59.89	4.6	33.57	7.8	25.5	0.92
I35	09 Feb 2023	1	13.64	79.25	7.8	33.29	8.1	24.9	1.18
I35	09 Feb 2023	2	13.60	78.96	7.8	33.28	8.1	24.9	1.16
I35	09 Feb 2023	3	13.57	78.78	7.8	33.28	8.1	24.9	1.39
I35	09 Feb 2023	4	13.55	78.48	7.8	33.28	8.1	25.0	1.84
I35	09 Feb 2023	5	13.54	78.41	7.8	33.28	8.1	25.0	2.15
I35	09 Feb 2023	6	13.53	78.14	7.8	33.28	8.1	25.0	2.68
I35	09 Feb 2023	7	13.52	78.05	7.8	33.28	8.1	25.0	2.80
I35	09 Feb 2023	8	13.51	77.89	7.8	33.28	8.1	25.0	2.73
I35	09 Feb 2023	9	13.51	78.02	7.7	33.29	8.1	25.0	2.66
I35	09 Feb 2023	10	13.47	78.25	7.4	33.30	8.1	25.0	2.60
I35	09 Feb 2023	11	13.10	78.38	6.5	33.39	8.0	25.1	2.30
I35	09 Feb 2023	12	12.36	79.02	5.5	33.49	7.9	25.3	2.04
I35	09 Feb 2023	13	11.98	83.51	4.9	33.54	7.9	25.5	1.24
I35	09 Feb 2023	14	11.78	85.06	4.7	33.57	7.8	25.5	1.01
I35	09 Feb 2023	15	11.70	84.19	4.6	33.58	7.8	25.5	0.77
I35	09 Feb 2023	16	11.64	83.05	4.5	33.59	7.8	25.6	0.59
I35	09 Feb 2023	17	11.59	82.87	4.4	33.60	7.8	25.6	0.52
I35	09 Feb 2023	18	11.57	80.92	4.3	33.61	7.8	25.6	0.51
I35	09 Feb 2023	19	11.58	76.15	4.3	33.61	7.8	25.6	0.57
I36	09 Feb 2023	1	13.61	77.73	8.0	33.33	8.1	25.0	1.79
I36	09 Feb 2023	2	13.59	77.45	7.9	33.34	8.1	25.0	1.81
I36	09 Feb 2023	3	13.07	77.11	7.3	33.41	8.0	25.1	2.25
I36	09 Feb 2023	4	12.95	75.52	7.0	33.40	8.0	25.2	2.71
I36	09 Feb 2023	5	12.72	67.76	6.8	33.44	8.0	25.2	2.66
I36	09 Feb 2023	6	12.40	62.38	6.1	33.48	7.9	25.3	2.33
I36	09 Feb 2023	7	12.34	53.47	5.5	33.48	7.9	25.3	2.16
I36	09 Feb 2023	8	12.22	37.14	5.0	33.51	7.9	25.4	1.96
I36	09 Feb 2023	9	12.13	28.40	4.7	33.52	7.8	25.4	1.72
I36	09 Feb 2023	10	12.09	26.80	4.6	33.52	7.8	25.4	1.71
I36	09 Feb 2023	11	12.02	19.29	4.6	33.54	7.8	25.4	1.88
I37	09 Feb 2023	1	13.57	79.90	7.6	33.24	8.0	24.9	1.84
I37	09 Feb 2023	2	13.57	78.68	7.6	33.24	8.0	24.9	1.96
I37	09 Feb 2023	3	13.57	79.94	7.6	33.24	8.0	24.9	2.10
I37	09 Feb 2023	4	13.58	79.89	7.6	33.24	8.0	24.9	2.14
I37	09 Feb 2023	5	13.59	80.04	7.6	33.25	8.0	24.9	2.24
I37	09 Feb 2023	6	13.60	80.03	7.6	33.25	8.0	24.9	2.14
I37	09 Feb 2023	7	13.60	80.17	7.6	33.25	8.0	24.9	2.11
I37	09 Feb 2023	8	13.63	80.50	7.6	33.27	8.0	24.9	2.02
I37	09 Feb 2023	9	13.45	81.09	7.0	33.33	8.0	25.0	1.87
I37	09 Feb 2023	10	12.66	82.23	5.8	33.45	8.0	25.3	1.48
I37	09 Feb 2023	11	12.16	81.97	5.0	33.52	7.9	25.4	1.15
I37	09 Feb 2023	12	12.08	77.92	4.9	33.52	7.8	25.4	1.24
I38	09 Feb 2023	1	13.75	78.37	8.2	33.31	8.1	24.9	1.70
I38	09 Feb 2023	2	13.76	78.45	8.2	33.31	8.1	24.9	1.75
I38	09 Feb 2023	3	13.71	78.42	8.2	33.31	8.1	24.9	2.28
I38	09 Feb 2023	4	13.56	78.16	7.5	33.33	8.1	25.0	2.84
I38	09 Feb 2023	5	12.88	76.46	6.1	33.43	8.0	25.2	2.46
I38	09 Feb 2023	6	12.61	73.95	5.7	33.45	7.9	25.3	1.92
I38	09 Feb 2023	7	12.38	75.74	5.2	33.48	7.9	25.3	1.61
I38	09 Feb 2023	8	12.26	72.13	5.0	33.50	7.9	25.4	1.58
I38	09 Feb 2023	9	12.22	60.73	4.9	33.50	7.8	25.4	1.55
I38	09 Feb 2023	10	12.21	52.09	4.9	33.50	7.8	25.4	1.62

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I38	09 Feb 2023	11	12.21	49.35	4.9	33.51	7.8	25.4	1.78
I4	07 Feb 2023	1	13.90	86.24	8.2	33.31	8.0	24.9	1.06
I4	07 Feb 2023	2	13.89	86.17	8.2	33.31	8.0	24.9	0.96
I4	07 Feb 2023	3	13.83	85.78	8.2	33.31	8.0	24.9	1.04
I4	07 Feb 2023	4	13.74	85.42	8.0	33.32	8.0	24.9	1.28
I4	07 Feb 2023	5	13.68	85.35	7.7	33.33	8.0	25.0	1.35
I4	07 Feb 2023	6	13.54	86.12	7.4	33.34	7.9	25.0	1.34
I4	07 Feb 2023	7	13.52	86.67	7.3	33.35	7.9	25.0	1.37
I4	07 Feb 2023	8	13.47	86.97	7.3	33.35	7.9	25.0	1.31
I4	07 Feb 2023	9	13.45	87.06	7.2	33.35	7.9	25.0	1.55
I4	07 Feb 2023	10	13.38	87.51	7.1	33.36	7.9	25.0	1.33
I4	07 Feb 2023	11	13.31	86.74	6.8	33.36	7.9	25.1	1.33
I4	07 Feb 2023	12	12.96	84.79	6.2	33.41	7.9	25.2	1.09
I4	07 Feb 2023	13	12.59	76.68	5.7	33.45	7.8	25.3	0.88
I4	07 Feb 2023	14	12.37	72.00	5.4	33.47	7.8	25.3	0.82
I4	07 Feb 2023	15	12.33	72.25	5.3	33.47	7.8	25.3	0.80
I4	07 Feb 2023	16	12.29	72.19	5.3	33.48	7.8	25.4	0.75
I4	07 Feb 2023	17	12.28	70.67	5.3	33.48	7.8	25.4	0.81
I4	07 Feb 2023	18	12.30	69.59	5.3	33.48	7.8	25.4	0.76
I5	07 Feb 2023	1	14.00	74.79	8.2	33.28	8.0	24.9	0.81
I5	07 Feb 2023	2	13.76	75.77	8.2	33.30	8.0	24.9	0.98
I5	07 Feb 2023	3	13.68	77.61	8.1	33.30	8.0	24.9	1.20
I5	07 Feb 2023	4	13.64	78.11	8.0	33.31	8.0	25.0	1.25
I5	07 Feb 2023	5	13.62	68.15	7.8	33.32	8.0	25.0	1.63
I5	07 Feb 2023	6	13.61	52.67	7.8	33.32	8.0	25.0	1.86
I5	07 Feb 2023	7	13.50	45.15	7.6	33.34	7.9	25.0	1.97
I5	07 Feb 2023	8	13.50	41.81	7.5	33.33	7.9	25.0	2.00
I5	07 Feb 2023	9	13.21	39.30	7.0	33.38	7.9	25.1	1.86
I5	07 Feb 2023	10	13.19	39.14	6.8	33.37	7.9	25.1	1.74
I5	07 Feb 2023	11	12.94	41.24	7.1	33.40	7.8	25.2	1.69
I5	07 Feb 2023	12	12.86	25.46	6.9	33.41	7.8	25.2	1.70
I5	07 Feb 2023	13	12.68	41.27	5.7	33.43	7.8	25.2	1.35
I5	07 Feb 2023	14	12.49	47.89	5.4	33.46	7.8	25.3	1.16
I6	07 Feb 2023	1	13.86	83.31	8.1	33.31	8.0	24.9	0.77
I6	07 Feb 2023	2	13.87	83.36	8.1	33.31	8.0	24.9	0.76
I6	07 Feb 2023	3	13.73	83.29	8.0	33.32	8.0	24.9	0.92
I6	07 Feb 2023	4	13.71	82.66	7.8	33.32	8.0	24.9	1.03
I6	07 Feb 2023	5	13.51	84.06	7.3	33.34	8.0	25.0	0.96
I6	07 Feb 2023	6	13.20	84.46	6.8	33.38	7.9	25.1	0.88
I6	07 Feb 2023	7	13.05	87.24	6.4	33.37	7.9	25.1	0.78
I6	07 Feb 2023	8	12.95	88.58	6.2	33.39	7.8	25.2	0.66
I6	07 Feb 2023	9	12.69	89.67	5.9	33.40	7.8	25.2	0.57
I6	07 Feb 2023	10	12.63	90.20	5.9	33.41	7.8	25.2	0.53
I6	07 Feb 2023	11	12.63	90.56	5.9	33.42	7.8	25.2	0.53
I6	07 Feb 2023	12	12.56	90.76	5.8	33.44	7.8	25.3	0.57
I6	07 Feb 2023	13	12.49	90.81	5.7	33.44	7.8	25.3	0.58
I6	07 Feb 2023	14	12.20	89.77	5.3	33.50	7.8	25.4	0.49
I6	07 Feb 2023	15	12.15	87.00	5.2	33.50	7.8	25.4	0.50
I6	07 Feb 2023	16	12.16	83.38	5.2	33.50	7.8	25.4	0.52
I6	07 Feb 2023	17	12.16	81.49	5.2	33.50	7.8	25.4	0.55
I6	07 Feb 2023	18	12.16	80.39	5.2	33.50	7.8	25.4	0.55
I6	07 Feb 2023	19	12.15	79.55	5.2	33.51	7.8	25.4	0.57
I6	07 Feb 2023	20	12.15	79.40	5.2	33.51	7.8	25.4	0.61
I6	07 Feb 2023	21	12.15	79.43	5.2	33.51	7.8	25.4	0.60
I6	07 Feb 2023	22	12.15	78.80	5.2	33.51	7.8	25.4	0.62
I6	07 Feb 2023	23	12.15	78.69	5.2	33.51	7.8	25.4	0.62
I6	07 Feb 2023	24	12.15	78.41	5.2	33.51	7.8	25.4	0.63
I6	07 Feb 2023	25	12.15	77.33	5.2	33.51	7.8	25.4	0.64

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
16	07 Feb 2023	26	12.16	74.13	5.2	33.51	7.8	25.4	0.66
17	07 Feb 2023	1	14.19	88.14	7.4	33.32	8.0	24.8	0.77
17	07 Feb 2023	2	14.19	88.81	8.0	33.32	8.0	24.8	0.76
17	07 Feb 2023	3	14.18	88.53	8.0	33.32	8.0	24.8	0.75
17	07 Feb 2023	4	14.18	88.10	8.0	33.32	8.0	24.9	0.74
17	07 Feb 2023	5	14.18	88.91	8.1	33.32	8.0	24.8	0.62
17	07 Feb 2023	6	14.18	89.03	8.2	33.32	8.0	24.8	0.76
17	07 Feb 2023	7	14.18	89.01	7.8	33.31	8.0	24.8	1.00
17	07 Feb 2023	8	14.18	87.73	7.5	33.32	8.0	24.8	0.73
17	07 Feb 2023	9	14.18	88.95	7.8	33.32	8.0	24.8	0.75
17	07 Feb 2023	10	14.18	89.34	7.6	33.32	8.0	24.8	0.79
17	07 Feb 2023	11	14.18	89.45	7.7	33.32	8.0	24.9	0.82
17	07 Feb 2023	12	14.18	89.60	8.1	33.32	8.0	24.8	0.97
17	07 Feb 2023	13	14.18	89.53	8.2	33.32	8.0	24.8	1.14
17	07 Feb 2023	14	14.18	89.49	8.3	33.32	8.0	24.8	1.26
17	07 Feb 2023	15	14.18	89.57	8.2	33.32	8.0	24.8	1.34
17	07 Feb 2023	16	14.18	89.66	8.3	33.32	8.0	24.9	1.33
17	07 Feb 2023	17	14.17	89.66	8.3	33.32	8.0	24.9	1.29
17	07 Feb 2023	18	14.17	89.79	8.3	33.32	8.0	24.9	1.45
17	07 Feb 2023	19	14.17	89.80	8.3	33.32	8.0	24.9	1.38
17	07 Feb 2023	20	14.17	89.79	8.3	33.32	8.0	24.9	1.29
17	07 Feb 2023	21	14.17	89.83	8.3	33.32	8.0	24.9	1.37
17	07 Feb 2023	22	14.17	89.83	8.2	33.32	8.0	24.9	1.43
17	07 Feb 2023	23	14.17	89.66	8.2	33.32	8.0	24.9	1.43
17	07 Feb 2023	24	14.16	89.77	8.3	33.32	8.0	24.9	1.38
17	07 Feb 2023	25	14.12	89.99	8.1	33.32	8.0	24.9	1.38
17	07 Feb 2023	26	13.98	90.27	7.8	33.34	8.0	24.9	1.45
17	07 Feb 2023	27	13.62	90.69	7.2	33.37	7.9	25.0	1.58
17	07 Feb 2023	28	13.58	91.50	6.9	33.36	7.9	25.0	1.67
17	07 Feb 2023	29	12.95	92.18	6.4	33.40	7.9	25.2	1.37
17	07 Feb 2023	30	12.71	92.40	6.2	33.40	7.8	25.2	1.02
17	07 Feb 2023	31	12.62	92.74	6.1	33.39	7.8	25.2	0.92
17	07 Feb 2023	32	12.49	92.83	6.0	33.40	7.8	25.3	0.83
17	07 Feb 2023	33	12.33	92.96	5.8	33.43	7.8	25.3	0.75
17	07 Feb 2023	34	12.22	92.95	5.6	33.44	7.8	25.3	0.64
17	07 Feb 2023	35	12.21	92.84	5.6	33.44	7.8	25.3	0.58
17	07 Feb 2023	36	12.19	92.89	5.5	33.44	7.8	25.3	0.63
17	07 Feb 2023	37	12.19	92.74	5.5	33.45	7.8	25.3	0.56
17	07 Feb 2023	38	12.19	92.55	5.5	33.45	7.8	25.4	0.55
17	07 Feb 2023	39	12.19	92.43	5.4	33.46	7.8	25.4	0.58
17	07 Feb 2023	40	12.14	92.26	5.3	33.48	7.8	25.4	0.56
17	07 Feb 2023	41	12.14	92.09	5.3	33.48	7.8	25.4	0.53
17	07 Feb 2023	42	12.09	92.07	5.3	33.50	7.8	25.4	0.49
17	07 Feb 2023	43	12.04	91.83	5.2	33.51	7.7	25.4	0.49
17	07 Feb 2023	44	12.04	91.77	5.1	33.52	7.7	25.4	0.45
17	07 Feb 2023	45	12.03	91.51	5.1	33.52	7.7	25.4	0.44
17	07 Feb 2023	46	12.01	91.37	5.0	33.53	7.7	25.4	0.43
17	07 Feb 2023	47	12.02	91.27	5.0	33.53	7.7	25.4	0.42
17	07 Feb 2023	48	12.00	91.21	5.0	33.54	7.7	25.5	0.41
17	07 Feb 2023	49	11.99	91.14	5.0	33.54	7.7	25.5	0.40
17	07 Feb 2023	50	11.99	90.92	5.0	33.54	7.7	25.5	0.39
17	07 Feb 2023	51	11.87	90.84	4.8	33.57	7.7	25.5	0.37
17	07 Feb 2023	52	11.77	89.94	4.6	33.59	7.7	25.5	0.37
18	07 Feb 2023	1	14.35	88.62	8.4	33.30	8.0	24.8	0.50
18	07 Feb 2023	2	14.33	88.45	8.4	33.30	8.0	24.8	0.52
18	07 Feb 2023	3	14.10	88.25	8.4	33.31	8.0	24.9	0.68
18	07 Feb 2023	4	14.03	87.93	8.5	33.30	8.0	24.9	0.82
18	07 Feb 2023	5	14.00	87.63	8.4	33.30	8.0	24.9	0.87
18	07 Feb 2023	6	13.97	87.58	8.4	33.30	8.0	24.9	1.05

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
18	07 Feb 2023	7	13.88	87.65	8.1	33.32	8.0	24.9	1.09
18	07 Feb 2023	8	13.76	88.31	7.7	33.33	8.0	24.9	1.24
18	07 Feb 2023	9	13.70	89.08	7.6	33.34	8.0	25.0	1.30
18	07 Feb 2023	10	13.69	89.10	7.6	33.34	8.0	25.0	1.13
18	07 Feb 2023	11	13.60	88.87	7.5	33.34	8.0	25.0	1.45
18	07 Feb 2023	12	13.54	88.91	7.3	33.35	8.0	25.0	1.16
18	07 Feb 2023	13	13.50	88.74	7.2	33.35	7.9	25.0	1.15
18	07 Feb 2023	14	13.35	90.29	6.8	33.37	7.9	25.1	0.98
18	07 Feb 2023	15	13.04	90.96	6.3	33.40	7.9	25.1	1.07
18	07 Feb 2023	16	12.90	91.37	6.2	33.40	7.8	25.2	0.78
18	07 Feb 2023	17	12.88	91.67	6.1	33.41	7.8	25.2	0.80
18	07 Feb 2023	18	12.66	91.82	5.9	33.43	7.8	25.2	0.73
18	07 Feb 2023	19	12.60	91.90	5.8	33.43	7.8	25.3	0.75
18	07 Feb 2023	20	12.50	91.97	5.7	33.43	7.8	25.3	0.67
18	07 Feb 2023	21	12.28	92.10	5.7	33.43	7.8	25.3	0.61
18	07 Feb 2023	22	12.30	92.60	5.7	33.43	7.8	25.3	0.60
18	07 Feb 2023	23	12.13	92.78	5.5	33.46	7.8	25.4	0.57
18	07 Feb 2023	24	12.05	92.40	5.3	33.49	7.8	25.4	0.52
18	07 Feb 2023	25	12.05	90.50	5.2	33.50	7.8	25.4	0.49
18	07 Feb 2023	26	12.06	89.68	5.2	33.50	7.8	25.4	0.50
18	07 Feb 2023	27	12.06	89.28	5.2	33.50	7.8	25.4	0.50
18	07 Feb 2023	28	12.06	88.97	5.2	33.51	7.8	25.4	0.51
18	07 Feb 2023	29	12.06	88.64	5.2	33.51	7.8	25.4	0.52
18	07 Feb 2023	30	12.07	87.59	5.2	33.51	7.8	25.4	0.56
18	07 Feb 2023	31	12.07	86.99	5.2	33.51	7.8	25.4	0.52
18	07 Feb 2023	32	12.07	86.74	5.1	33.52	7.8	25.4	0.56
18	07 Feb 2023	33	12.07	86.28	5.1	33.52	7.8	25.4	0.54
18	07 Feb 2023	34	12.07	85.83	5.1	33.52	7.8	25.4	0.55
18	07 Feb 2023	35	12.07	85.30	5.1	33.52	7.8	25.4	0.56
18	07 Feb 2023	36	12.07	84.11	5.1	33.52	7.8	25.4	0.55
19	07 Feb 2023	1	14.16	87.94	8.4	33.30	8.0	24.8	0.70
19	07 Feb 2023	2	14.01	87.68	8.4	33.30	8.0	24.9	0.83
19	07 Feb 2023	3	13.93	87.29	8.4	33.30	8.0	24.9	0.89
19	07 Feb 2023	4	13.92	86.85	8.3	33.30	8.0	24.9	0.89
19	07 Feb 2023	5	13.83	86.34	8.2	33.29	8.0	24.9	1.08
19	07 Feb 2023	6	13.81	85.78	8.1	33.29	8.0	24.9	1.21
19	07 Feb 2023	7	13.79	85.32	8.1	33.29	8.0	24.9	1.45
19	07 Feb 2023	8	13.68	84.90	7.9	33.31	8.0	24.9	1.58
19	07 Feb 2023	9	13.57	83.50	7.4	33.32	8.0	25.0	1.46
19	07 Feb 2023	10	13.00	83.67	6.6	33.37	7.9	25.1	1.12
19	07 Feb 2023	11	12.85	85.68	6.2	33.38	7.9	25.2	0.89
19	07 Feb 2023	12	12.78	87.51	6.1	33.41	7.8	25.2	0.86
19	07 Feb 2023	13	12.61	89.25	5.9	33.43	7.8	25.3	0.67
19	07 Feb 2023	14	12.48	90.29	5.7	33.44	7.8	25.3	0.55
19	07 Feb 2023	15	12.42	91.13	5.6	33.44	7.8	25.3	0.59
19	07 Feb 2023	16	12.30	91.52	5.5	33.46	7.8	25.3	0.53
19	07 Feb 2023	17	12.16	91.07	5.3	33.48	7.8	25.4	0.49
19	07 Feb 2023	18	12.25	90.43	5.4	33.47	7.8	25.4	0.51
19	07 Feb 2023	19	12.12	90.18	5.3	33.49	7.8	25.4	0.50
19	07 Feb 2023	20	12.11	89.57	5.2	33.49	7.8	25.4	0.50
19	07 Feb 2023	21	12.10	89.00	5.2	33.50	7.8	25.4	0.50
19	07 Feb 2023	22	12.10	88.56	5.2	33.50	7.8	25.4	0.56
19	07 Feb 2023	23	12.09	88.42	5.2	33.50	7.8	25.4	0.51
19	07 Feb 2023	24	12.08	87.79	5.1	33.50	7.8	25.4	0.54
19	07 Feb 2023	25	12.09	86.89	5.2	33.50	7.8	25.4	0.54
19	07 Feb 2023	26	12.09	86.63	5.1	33.51	7.8	25.4	0.57
19	07 Feb 2023	27	12.09	82.58	5.1	33.51	7.8	25.4	0.56
19	07 Feb 2023	28	12.09	78.94	5.1	33.51	7.8	25.4	0.60
19	07 Feb 2023	29	12.10	78.53	5.1	33.51	7.8	25.4	0.60

NA = not available

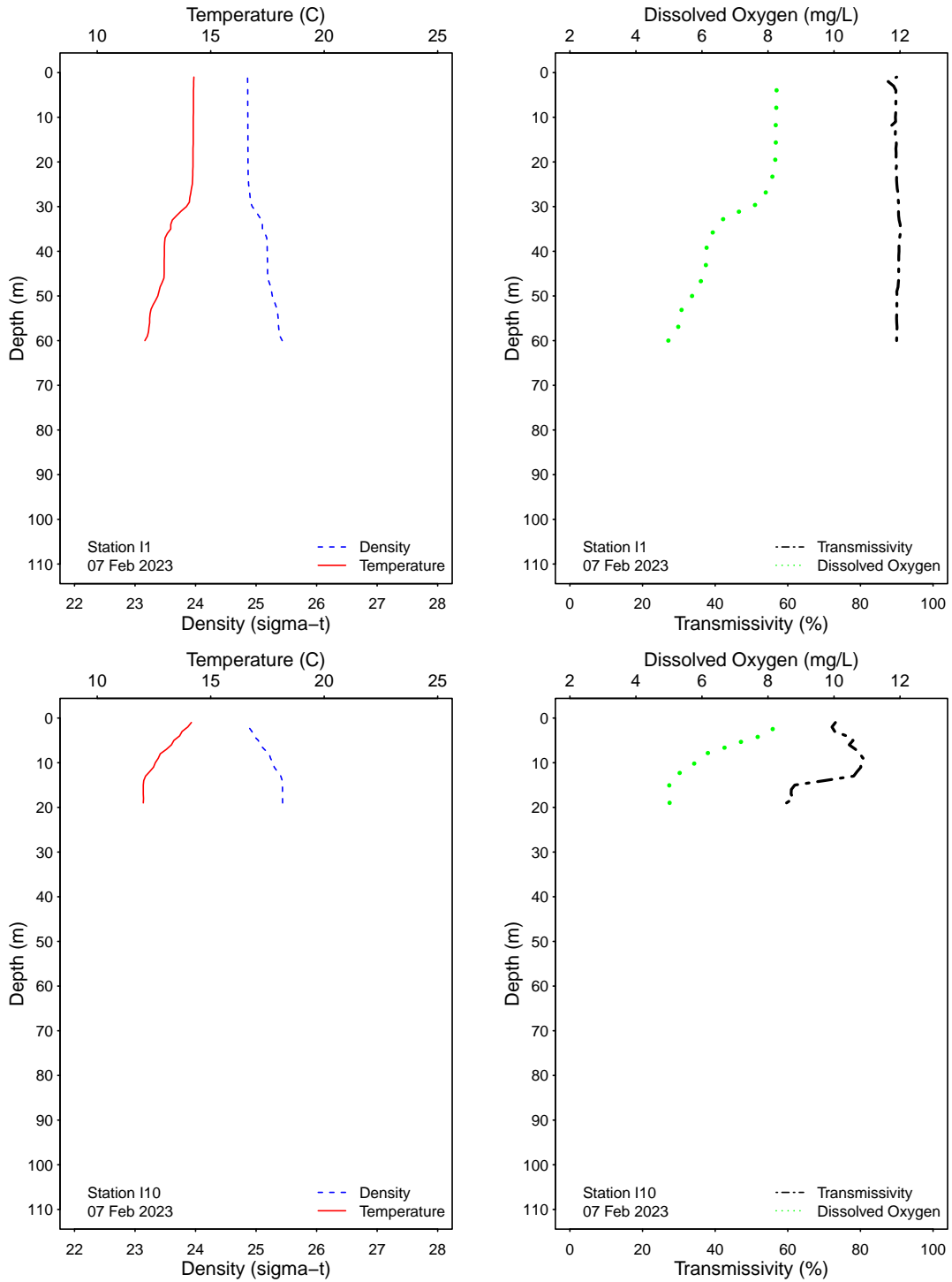


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

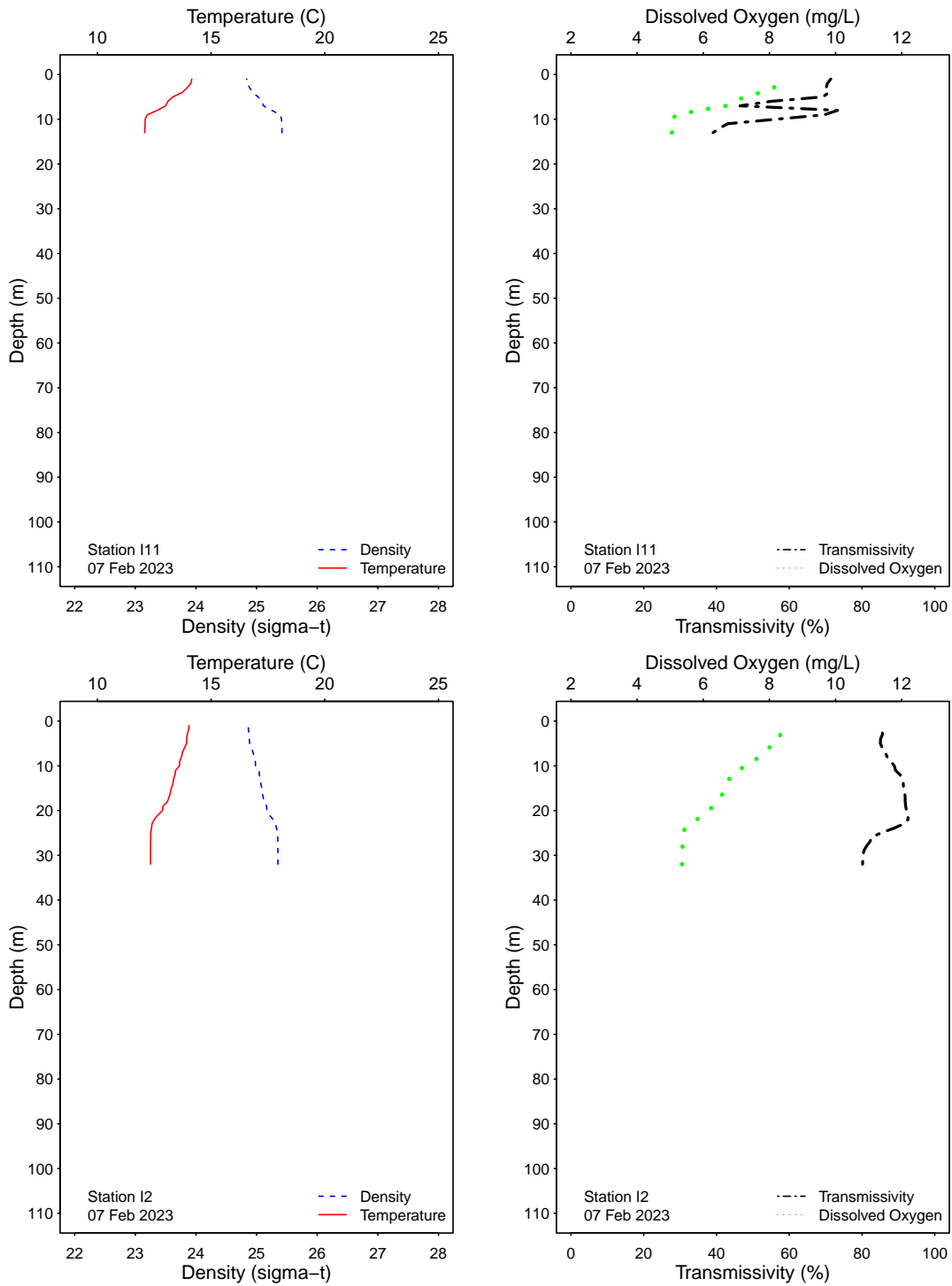


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

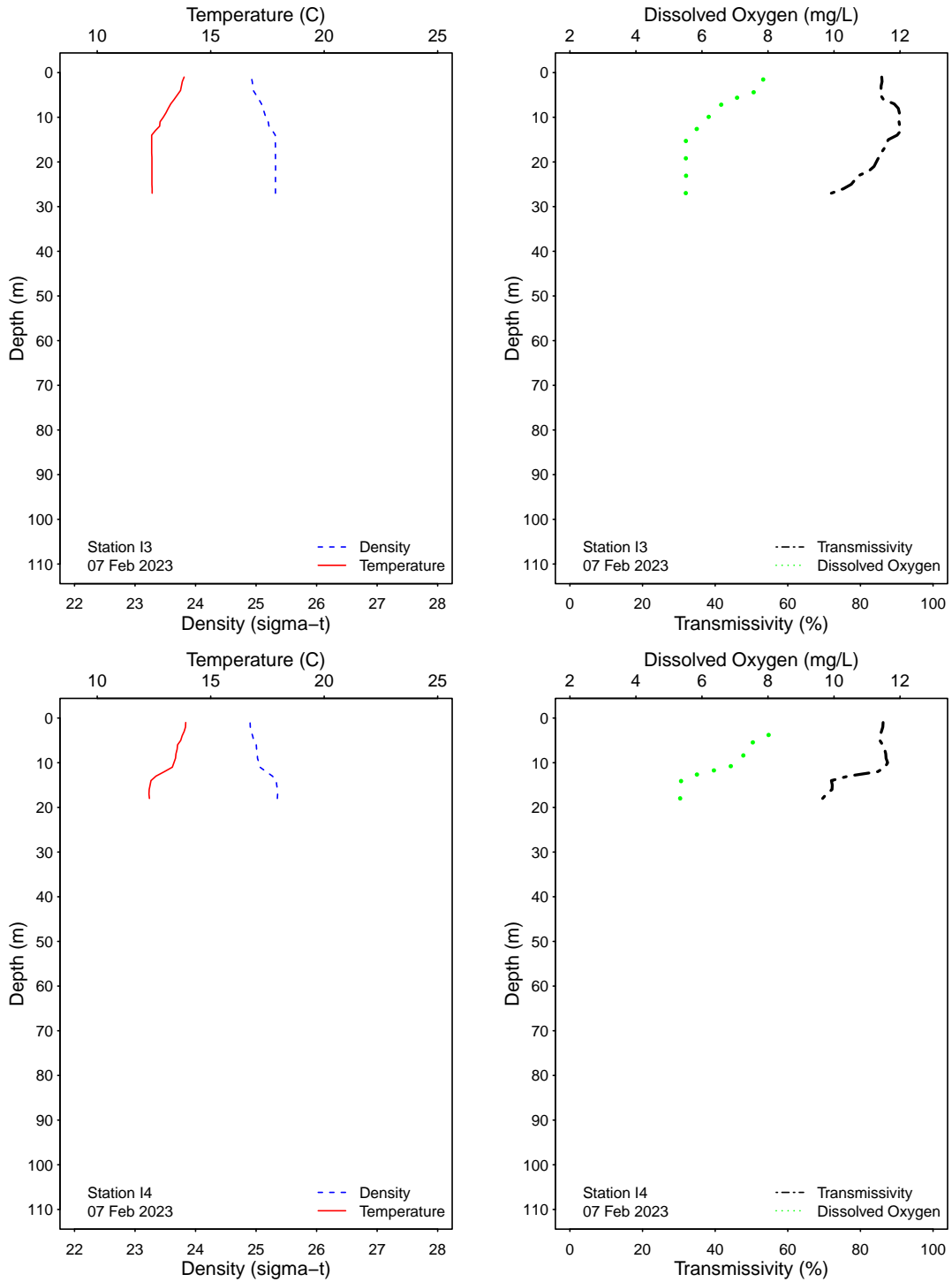


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

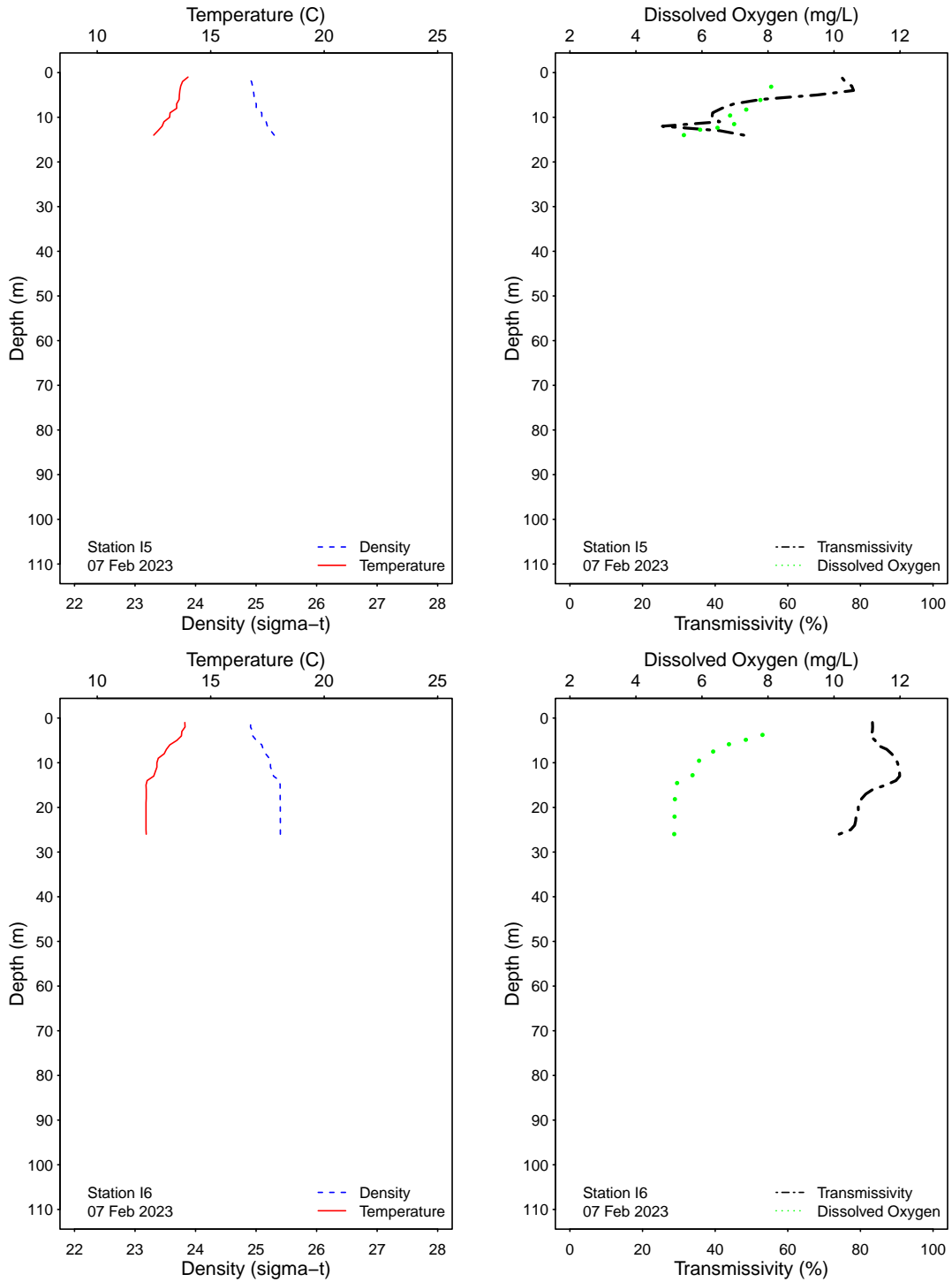


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

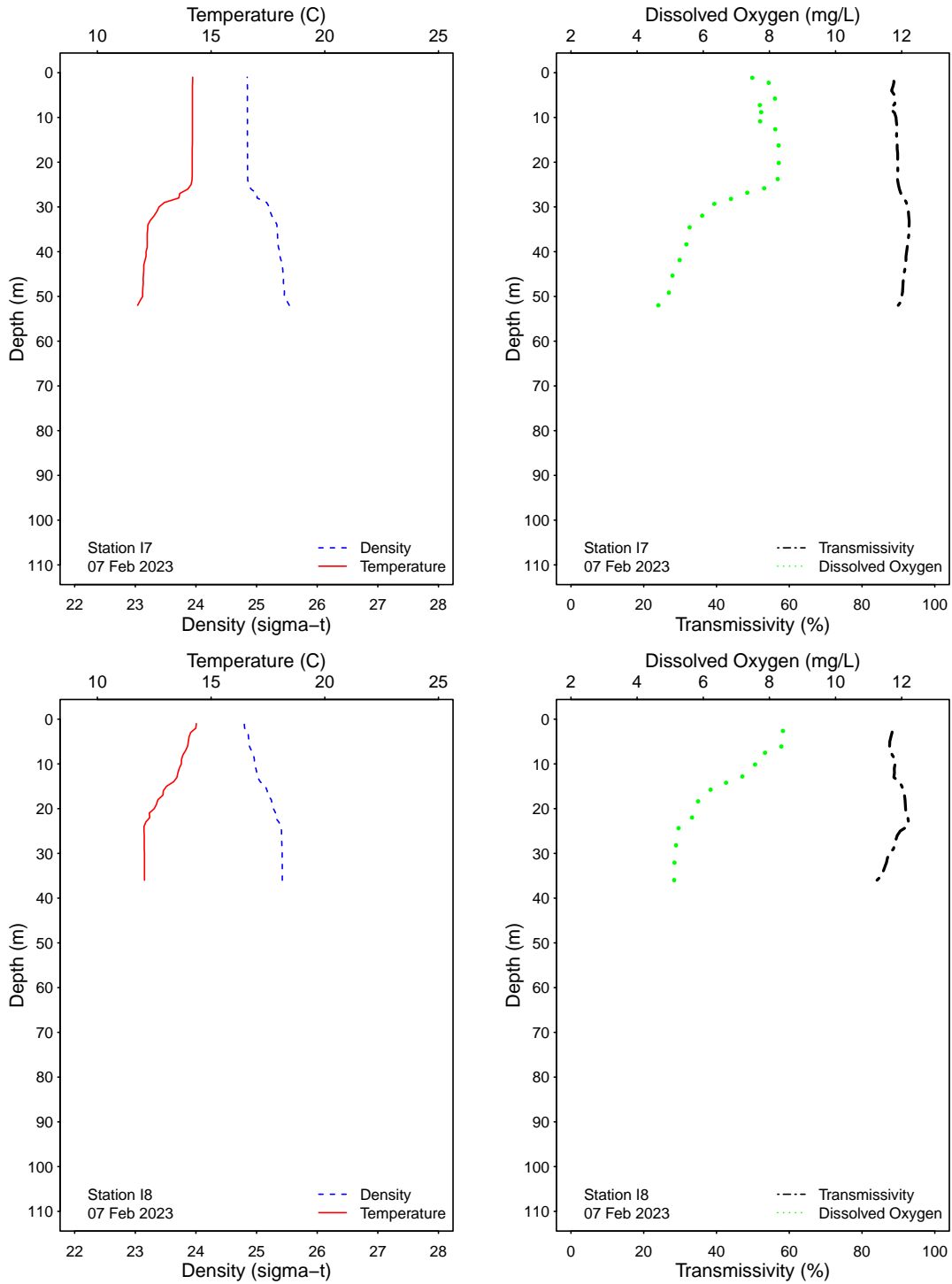


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

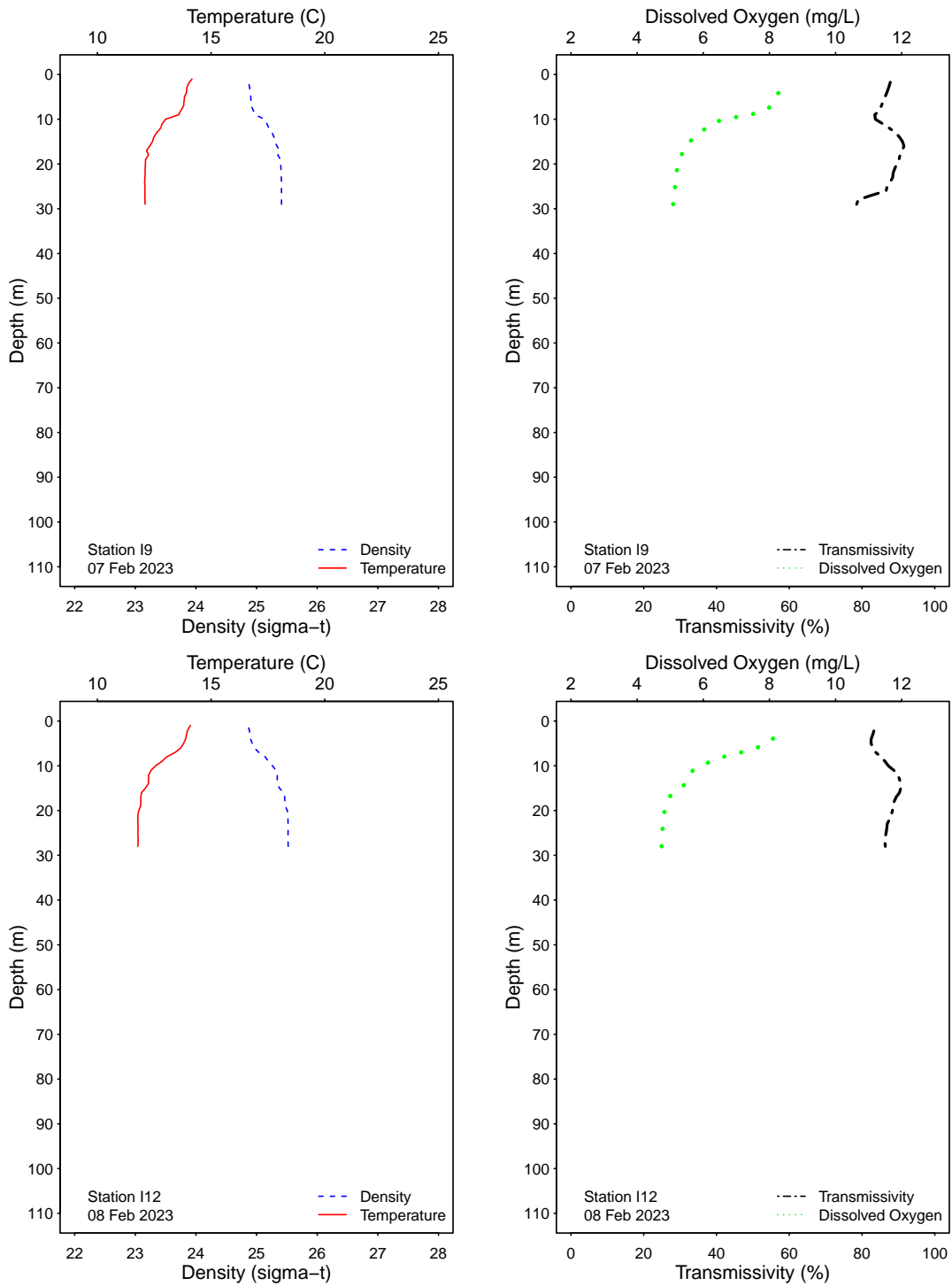


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

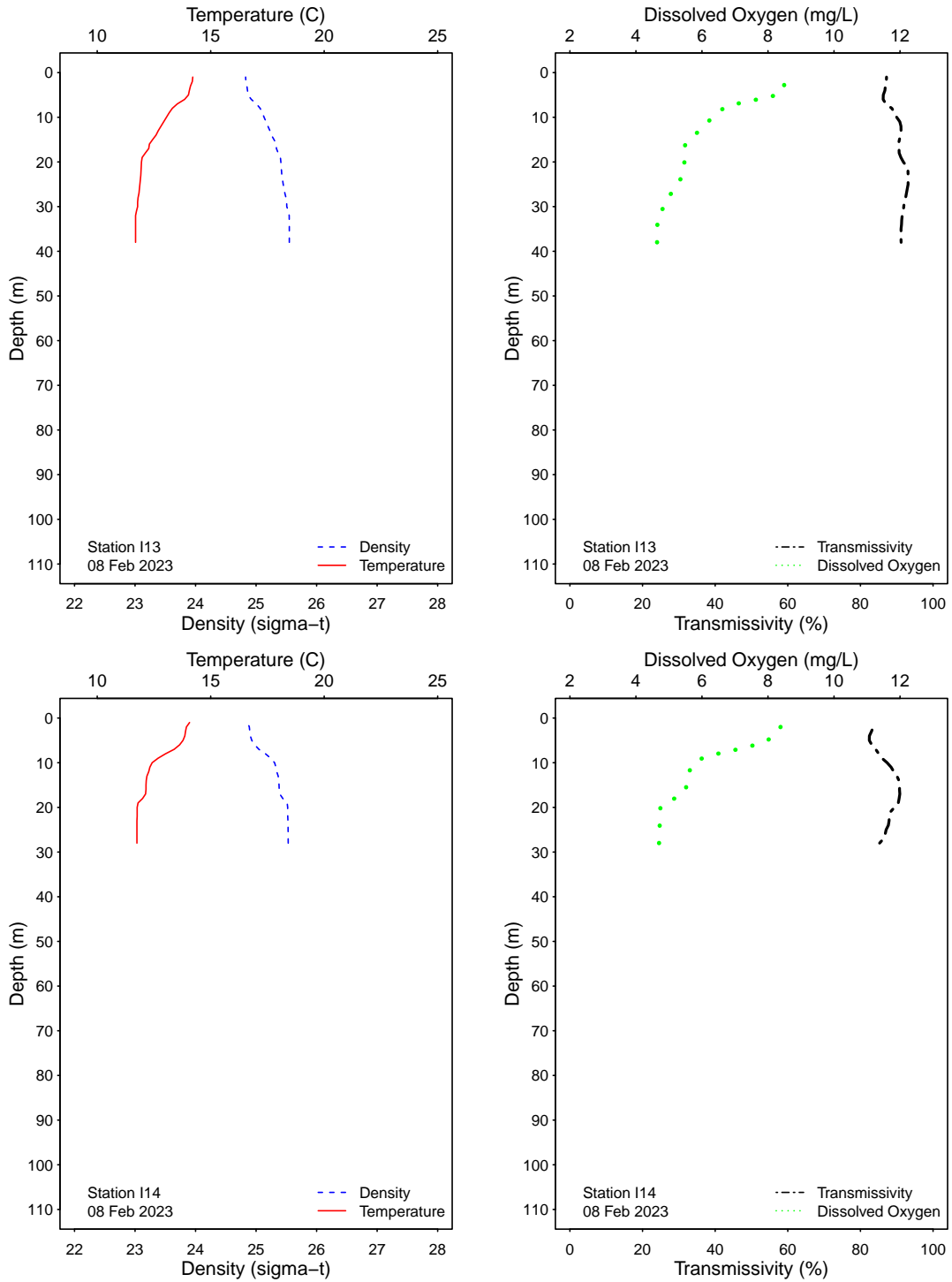


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

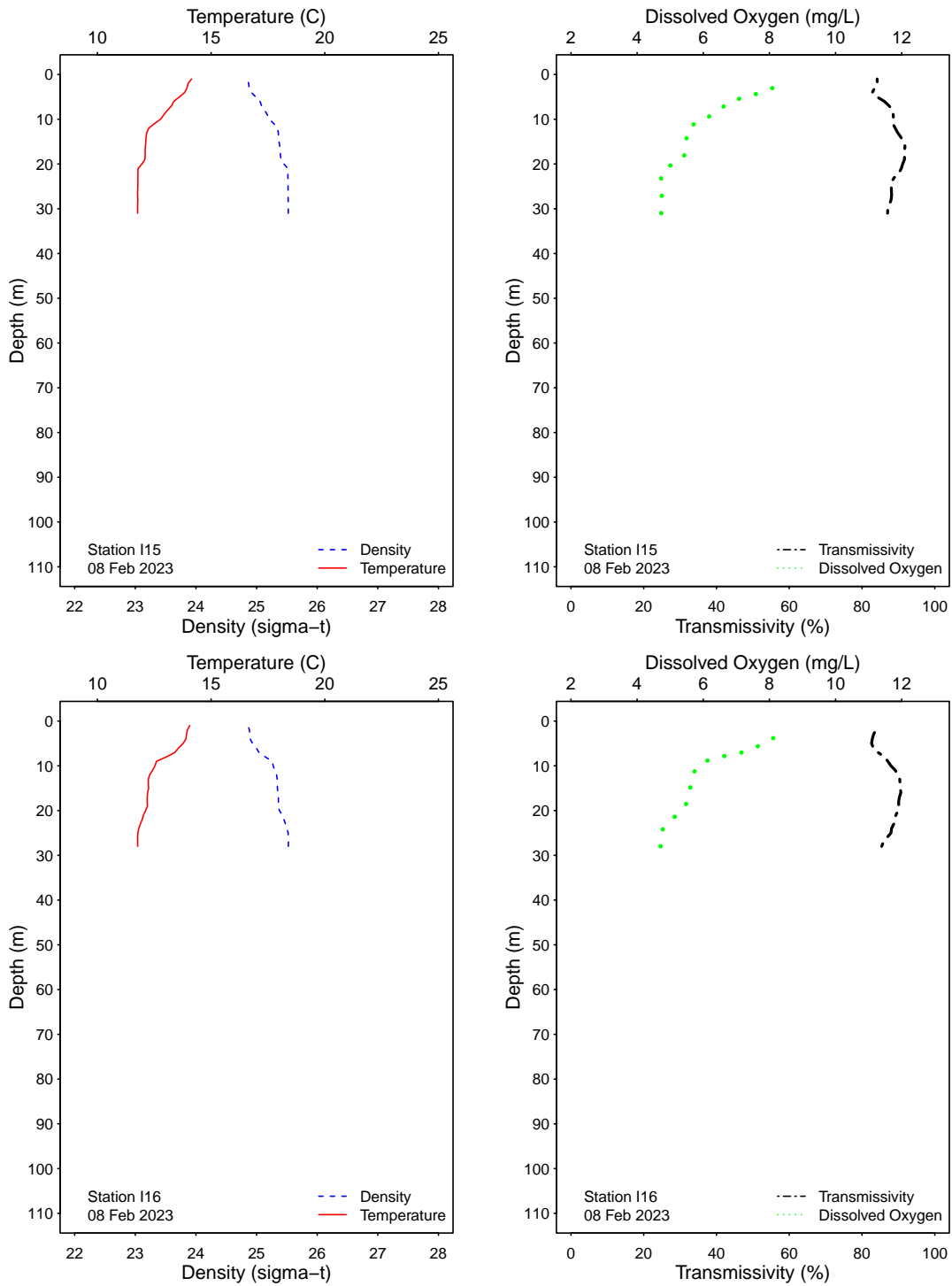


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

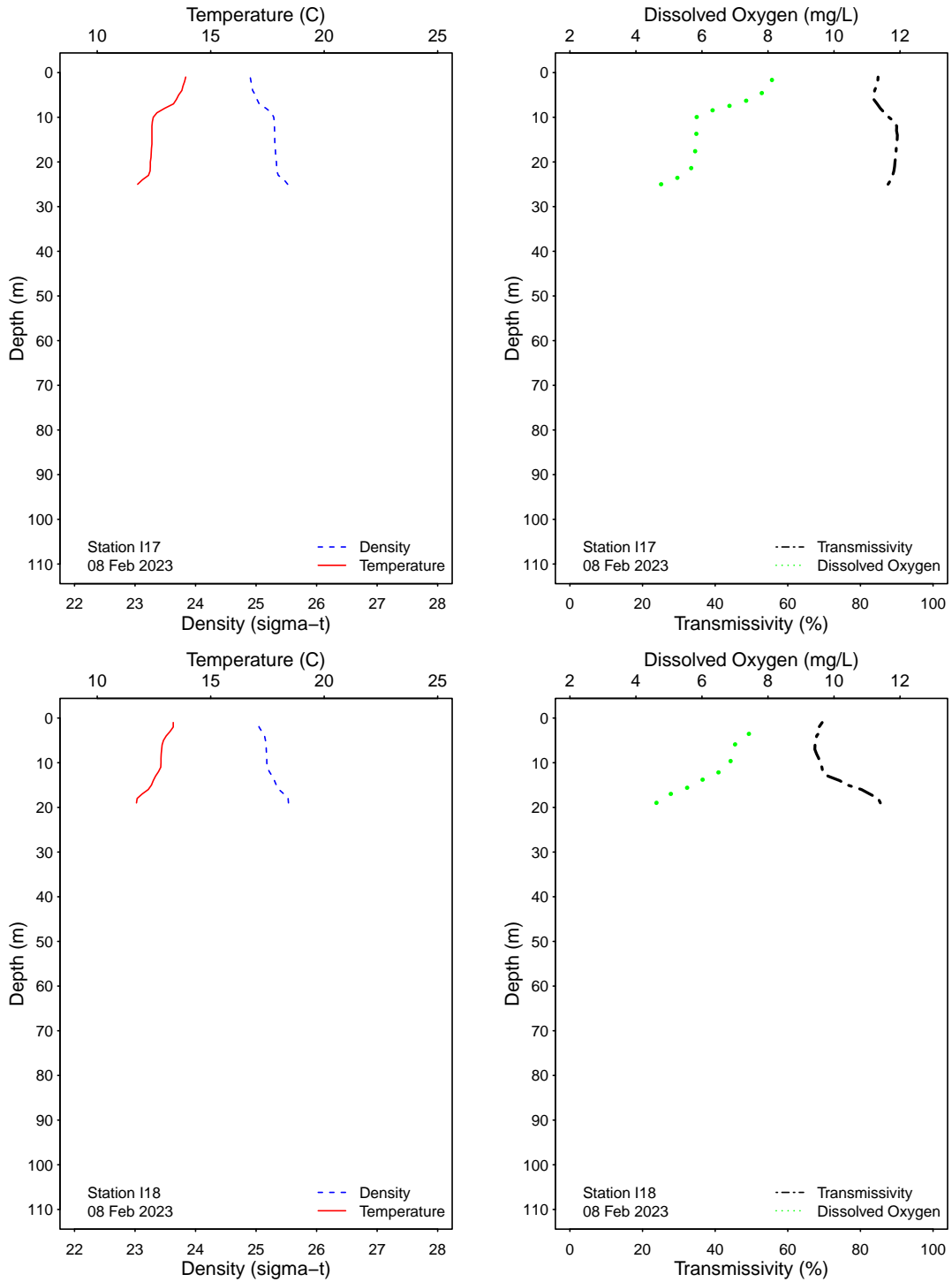


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

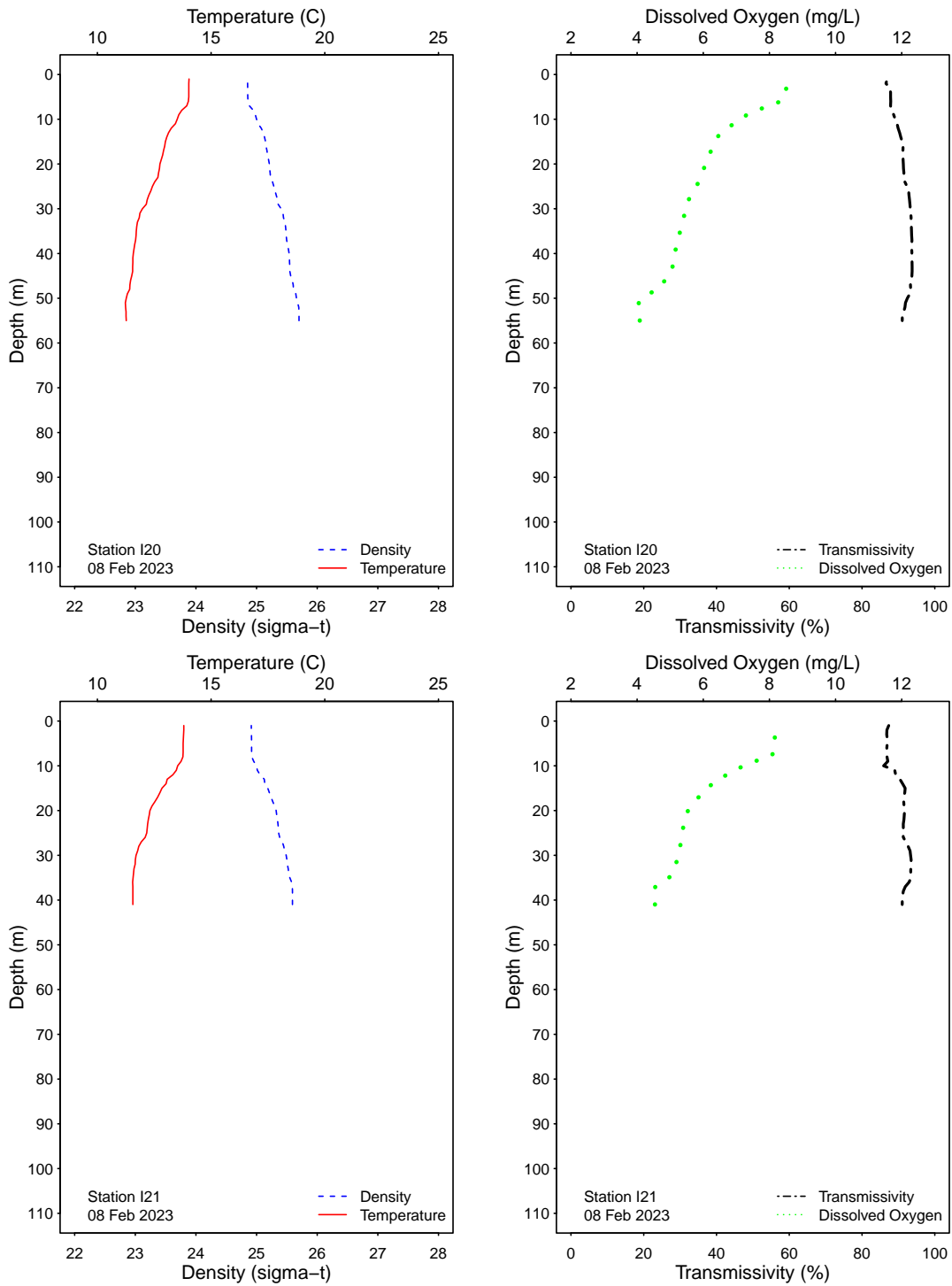


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

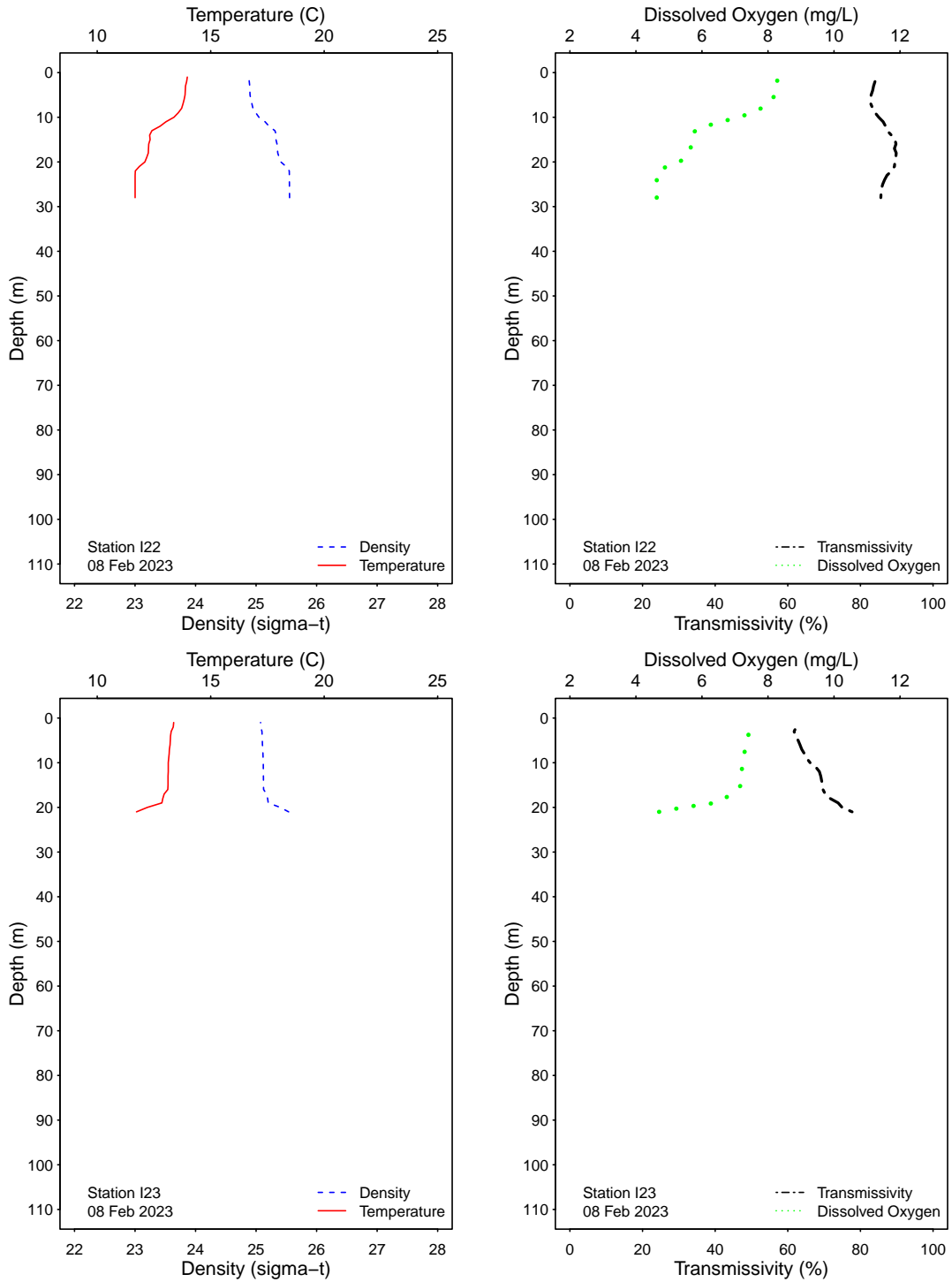


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

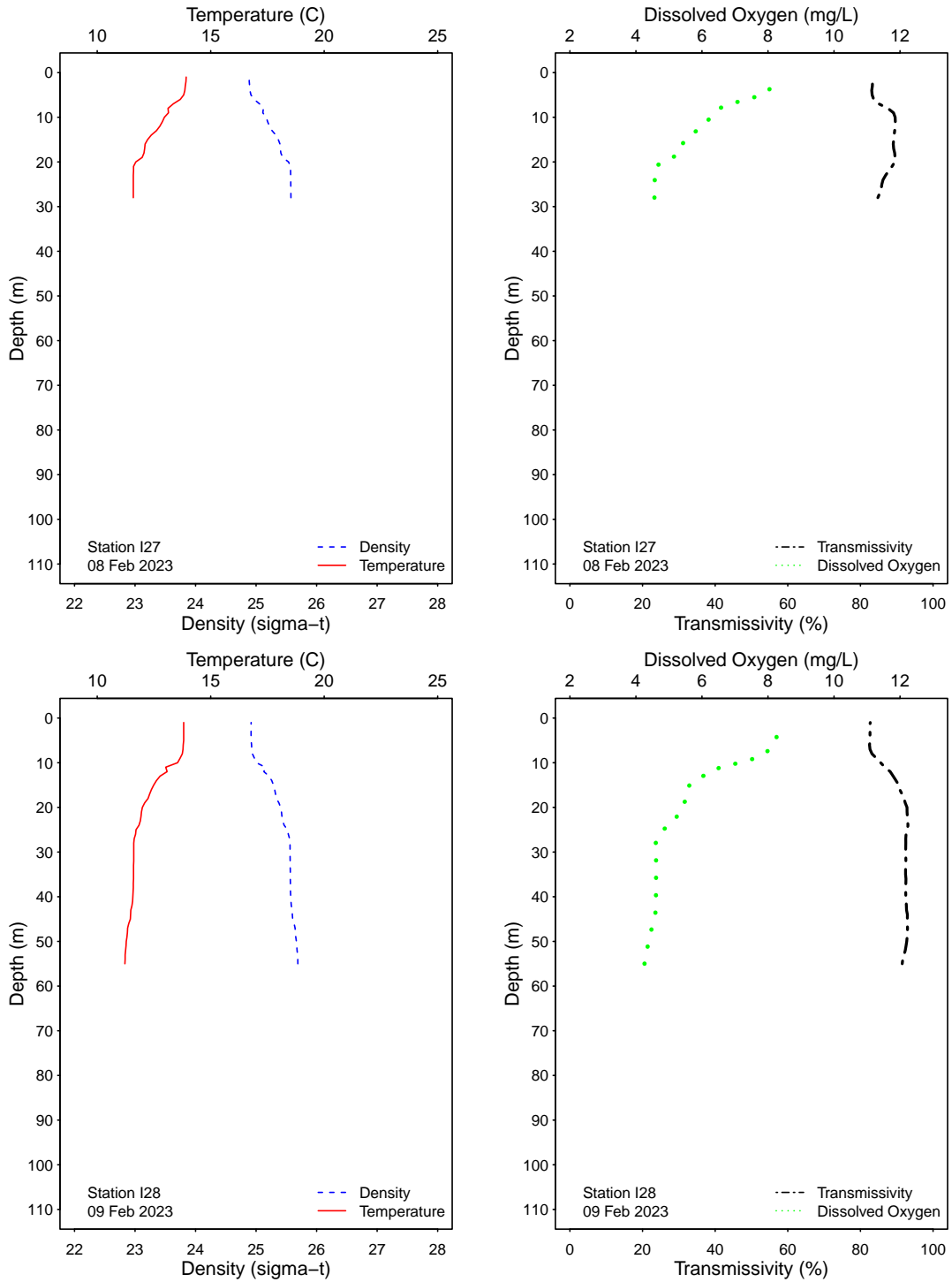


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

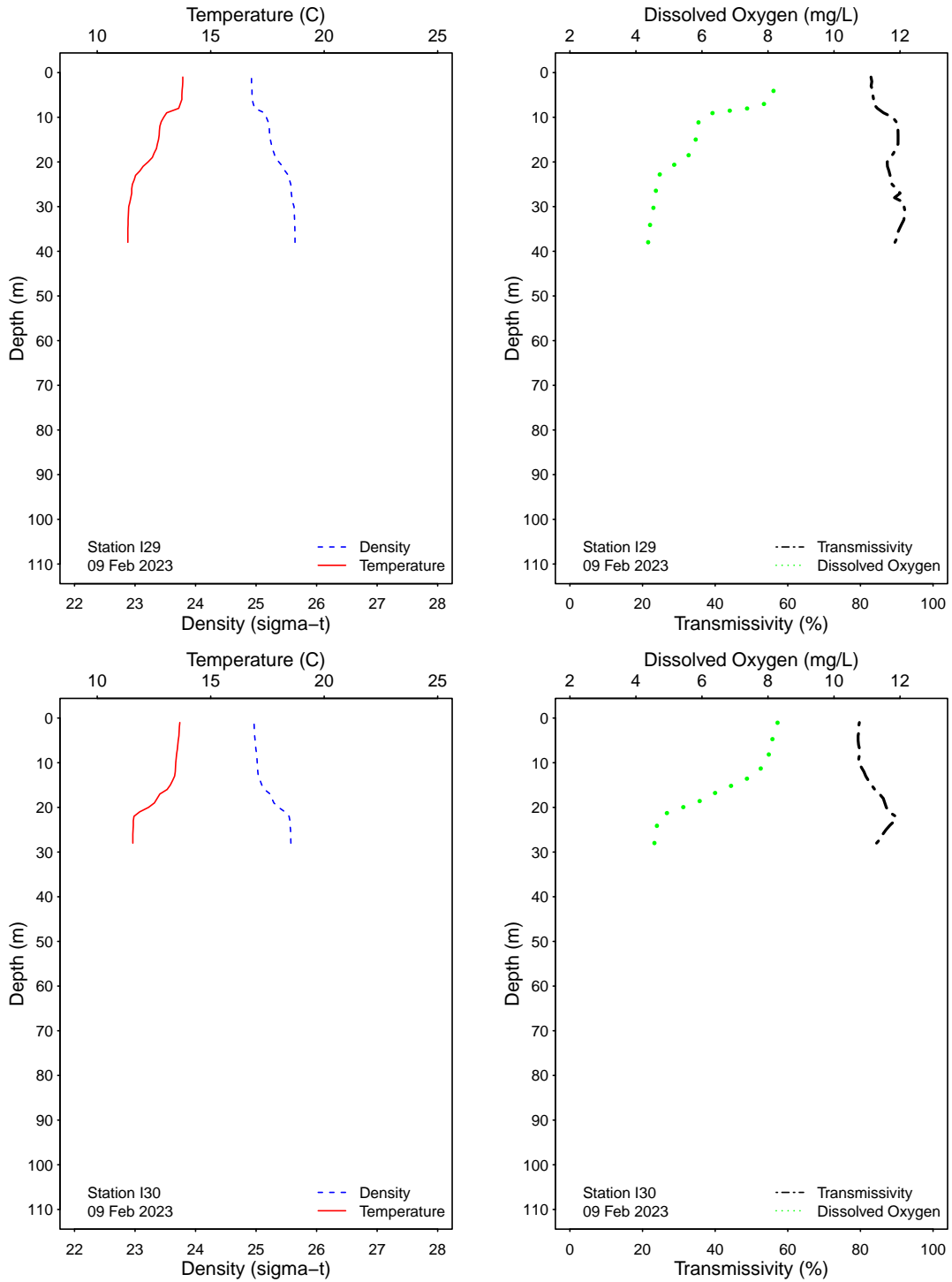


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

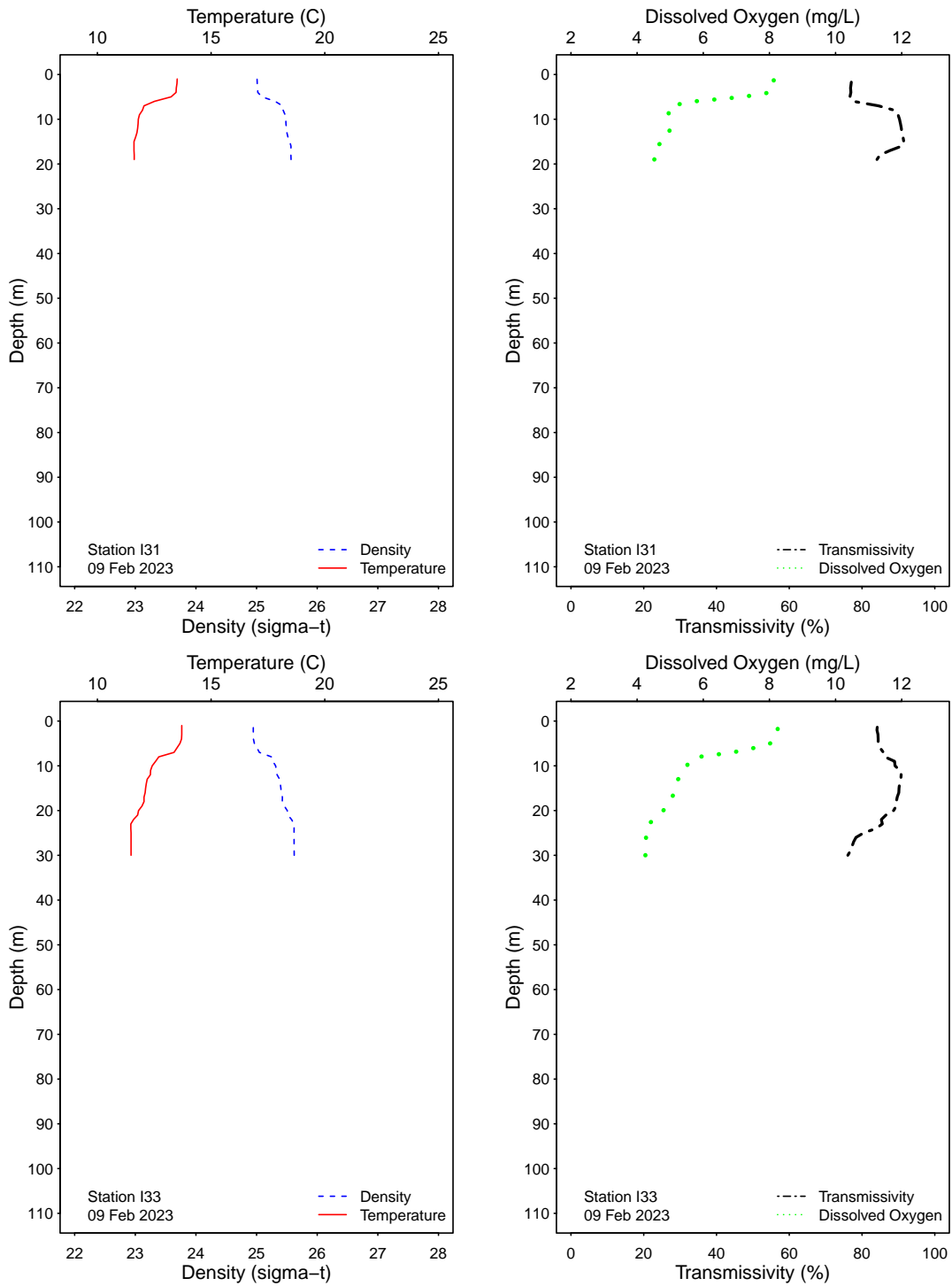


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

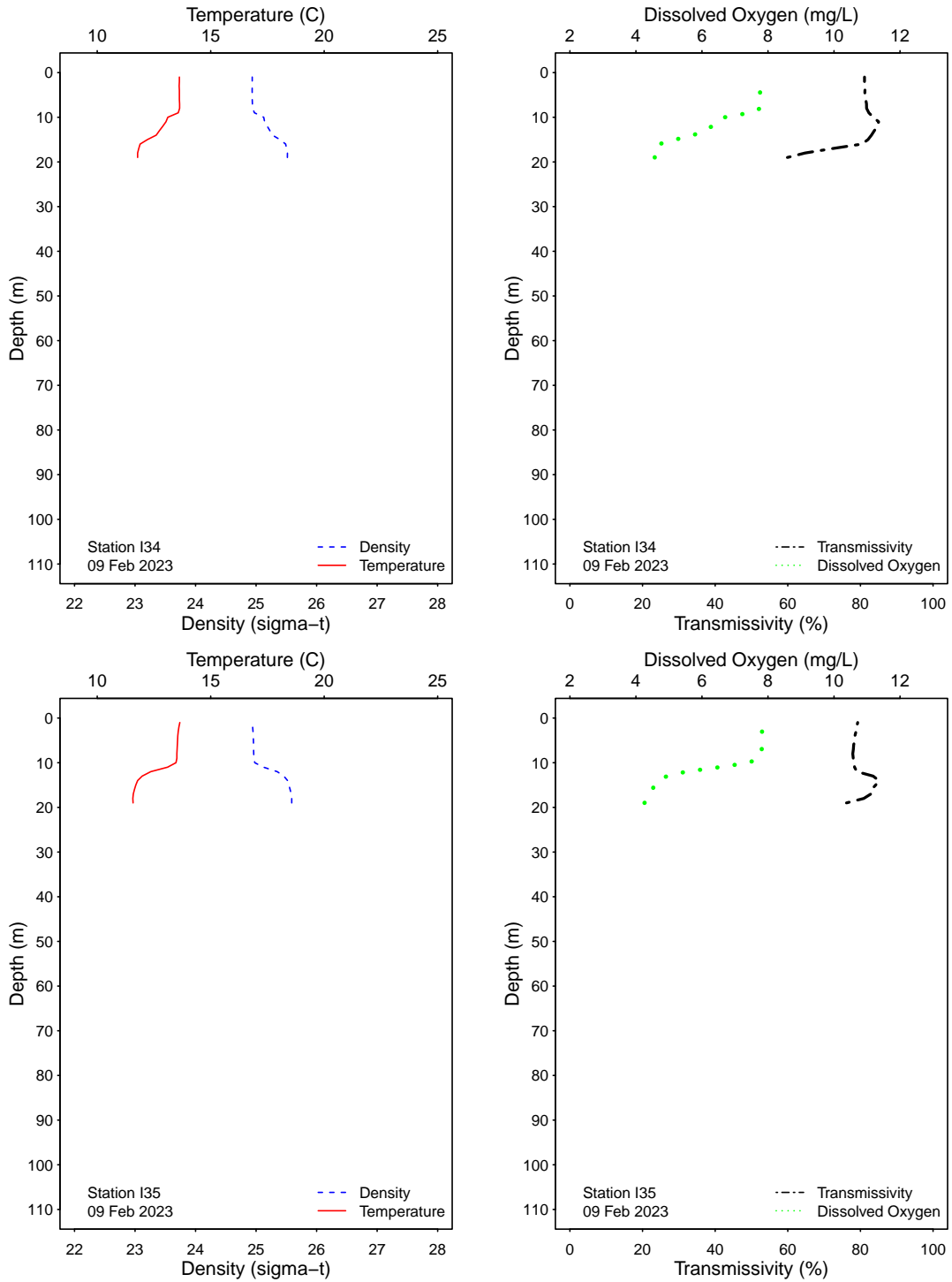


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

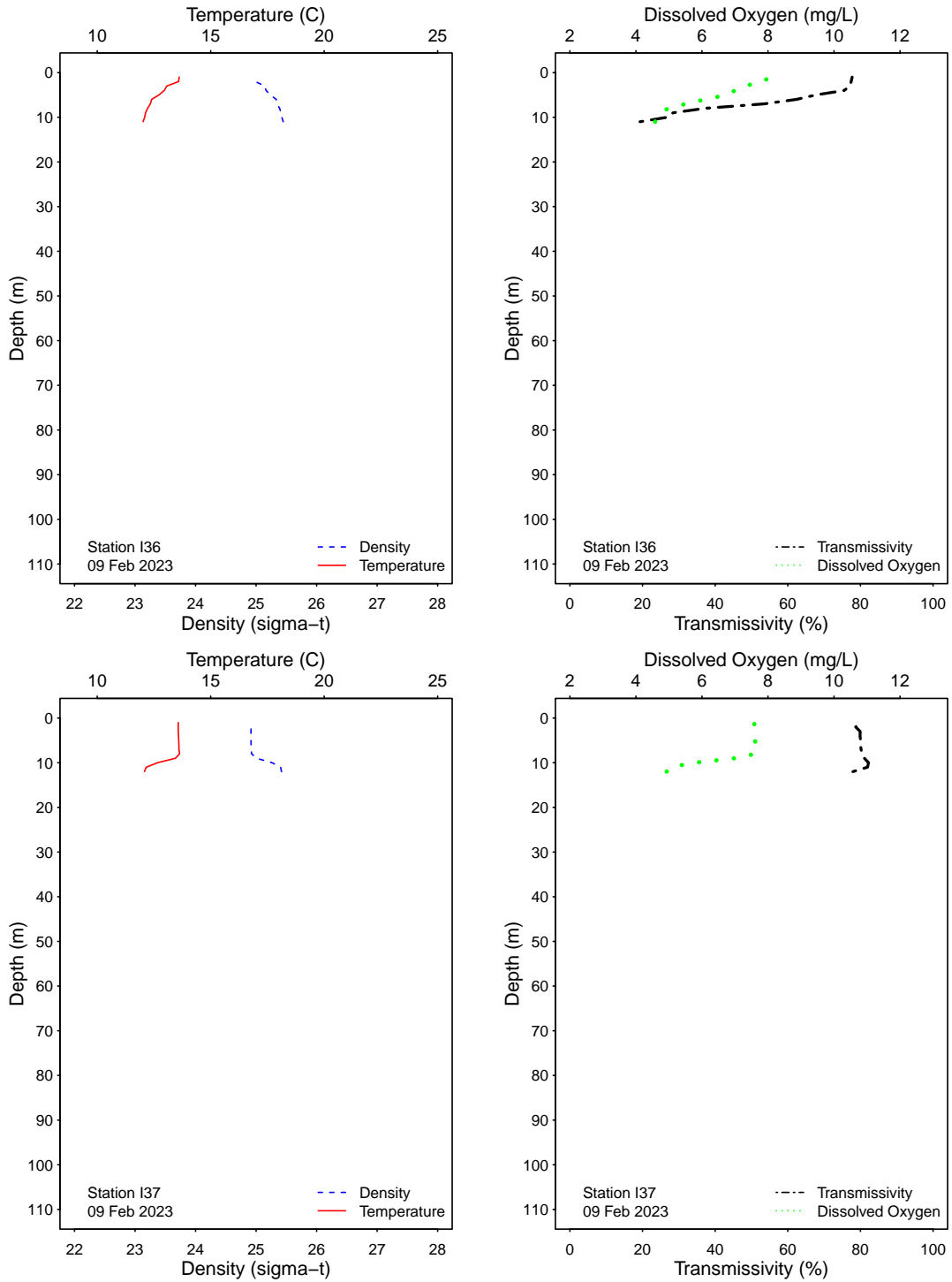


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

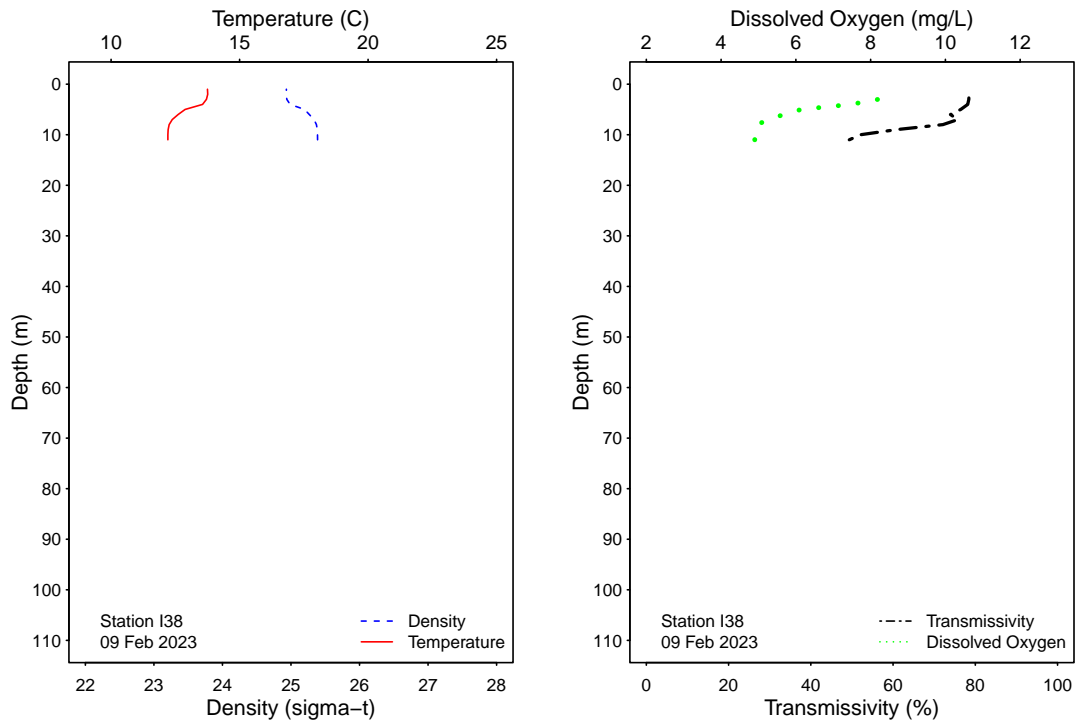


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

APPENDIX A

Quality Assurance

Table A.1

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

Station	Date	Depth	Analyst	Procedure	Total	Fecal	Enterococcus
I3	07 Feb 2023	18	BS	LAB DUPLICATE	14e	<2	<2
I8	07 Feb 2023	37	BS	LAB DUPLICATE	2e	<2	<2
I9	07 Feb 2023	27	BS	LAB DUPLICATE	8e	<2	2e
I12	08 Feb 2023	18	KT	LAB DUPLICATE	260e	26e	8e
I13	08 Feb 2023	18	KT	LAB DUPLICATE	4e	<2	<2
I16	08 Feb 2023	18	KT	LAB DUPLICATE	60e	30e	12e
I19	10 Feb 2023	6	JF	LAB DUPLICATE	>16000	760	40e
I19	13 Feb 2023	6	JF	LAB DUPLICATE	>16000	10000	2600e
I19	21 Feb 2023	6	KA	LAB DUPLICATE	420	34e	8e
I19	27 Feb 2023	6	CRE	LAB DUPLICATE	9800	300e	340e
I30	09 Feb 2023	27	KT	LAB DUPLICATE	1200	100e	10e
I36	09 Feb 2023	11	KT	FIELD DUPLICATE	120e	26e	2e
I36	09 Feb 2023	11	KT	LAB DUPLICATE	100e	<20	6e
I40	10 Feb 2023	6	JF	LAB DUPLICATE	3400e	7200	1000
I40	13 Feb 2023	6	JF	LAB DUPLICATE	>16000	1100	780
I40	21 Feb 2023	6	KA	LAB DUPLICATE	2e	2e	2e
I40	27 Feb 2023	6	CRE	LAB DUPLICATE	9000	460	360e
S12	07 Feb 2023		KT	FIELD DUPLICATE	20e	2e	40e
S12	07 Feb 2023		KT	LAB DUPLICATE	40e	2e	140e
S12	14 Feb 2023		KA	FIELD DUPLICATE	>16000	1800e	720
S12	14 Feb 2023		KA	LAB DUPLICATE	>16000	600e	820
S12	21 Feb 2023		KA	FIELD DUPLICATE	180e	24e	4e
S12	21 Feb 2023		KA	LAB DUPLICATE	160e	40	6e
S12	28 Feb 2023		CRE	FIELD DUPLICATE	10000	1100	440
S12	28 Feb 2023		CRE	LAB DUPLICATE	11000	840	300e

ns = not sampled

ND = no data

