SD Public Utilities

SOUTH BAY OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

SOUTH BAY WATER RECLAMATION PLANT

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

NOVEMBER 2024

Environmental Monitoring and Technical Services
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CERTIFIED
Public Utilities Department
Continual Improvement, Prevention of Pollution, Regulatory Compliance
ISO 14001

The City of SAN DIEGO
Public Utilities Department
Environmental Monitoring & Technical Services Division

December 31, 2024

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

Attention: POTW Compliance Unit

Dear Mr. Gibson:

Enclosed is the November 2024 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 weekly 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.

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 quarterly 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 days of kelp bed water quality sampling. Monitoring at all sites included measurements of various physical/chemical parameters, including water temperature, salinity, density, dissolved oxygen, pH, chlorophyll *a*, transmissivity, and chromomorphic dissolved organic matter (CDOM). Visual observations of weather and water conditions were also recorded at all stations. Seawater samples for the analysis of indicator bacteria 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:

<u>Water-Contact Objectives</u>

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 E*nterococci* 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

<u>Shellfish Harvesting Standards</u>

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.

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

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

Quality controls of bacteriological data include laboratory and field duplicate analyses. Laboratory duplicates are performed on approximately 10% of the water quality samples, while field duplicates are performed six times a month (see Appendix A). Laboratory duplicates represent two aliquots of the original sample that are split in the laboratory and analyzed by the same analyst using identical procedures within the same analytical run. The results of these analyses provide a measure of intra-analyst precision. In contrast, field duplicates represent two separate samples collected at the same time from the same site, which are handled under identical circumstances and treated exactly the same throughout field and lab procedures. The results of these analyses provide a measure of precision associated with sample collection, preservation, storage, and lab procedures. The sign test (see Gilbert, 1987[2]) 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 2024 Quality Assurance Report, which will be completed in March 2025.

SUMMARY OF RESULTS

- **Shoreline Water Quality Sampling**
  - Due to site access restrictions in Mexico, the South Bay shoreline sampling is typically carried out on the same day each week (i.e., Tuesday) to coordinate sampling between the Mexican and USA based stations. Seawater samples at the three shore stations located south of the USA/Mexico border (i.e., stations S0, S2 and S3) are presently collected by the Comisión Internacional de Límites y Aguas (CILA) and transported to the USIBWC for subsequent delivery to the City's Marine Microbiology Lab, while samples from the eight stations located in USA waters are sampled by City staff.
  - During November**,** 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 station S5.
    - The single sample maximum (SSM) standard for fecal coliforms was exceeded at stations S4, S5, S10, and S11.
    - The 6-week running geometric mean standard for *Enterococcus* was exceeded at stations S5 and S10.
    - The statistical threshold value (STV) standard for *Enterococcus* was exceeded at stations S4, S5, S10, and S11.

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

        - The 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, S10, S11, and S12.
    - Nothing of sewage origin was observed at SBOO shore stations in November.
    - Historical analyses of Ocean Plan compliance rates for the South Bay outfall shore and kelp monitoring stations, combined with the results of satellite imagery data, suggest that outflows from the Tijuana River and Los Buenos Creek, as well as surface runoff during or after rain events (storms), are likely to be the cause of impacted water quality along the shore and in near shore recreational waters in the South Bay region. See the City of San Diego's most recent *Biennial Receiving Waters Monitoring and Assessment Report for the Point Loma and South Bay Ocean Outfalls* for details (https://www.sandiego.gov/public-utilities/sustainability/ocean-monitoring/reports).

- **Kelp Bed Water Quality Sampling**
    - The seven kelp bed water quality stations (I19, I24, I25, I26, I32, I39, I40) were sampled on November 4, 12, 18, and 26.
    - During November, six of the seven kelp bed stations were out of compliance with the various 2019 Ocean Plan water contact standards on one or more days as follows:
        - The SSM standard for fecal coliforms was exceeded at stations I19, I26, and I40.
        - The STV standard for *Enterococcus* was exceeded at stations I24, I25, and I32.
        - The 30-day running median standard for total coliforms was exceeded at stations I19, I24, I25, and I40.
        - The STV standard for total coliforms was exceeded at stations I19, I24, I25, I26, I32, and I40.
    - Water column temperatures ranged from 12.19 to 16.68°C. The difference between surface and bottom waters ranged from 0.25 to 3.87°C.
    - Concentrations of chlorophyll *a* ranged from 0.31 to 28.84 µg/L at the kelp bed stations.
    - Nothing of sewage origin was observed at SBOO kelp stations in November.

- **Offshore Water Quality Sampling**
    - Quarterly offshore water quality sampling was conducted over three days during the month (i.e., November 5, 6, and 7).
    - During November, two of the ten 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 SSM standard for fecal coliforms was exceeded at station I18.
        - The STV standard for *Enterococcus* was exceeded at station I18.
        - The STV standard for total coliforms was exceeded at stations I16 and I18.
    - Water column temperatures ranged from 11.11 to 16.94°C at the offshore sites. The difference between surface and bottom waters ranged from 2.19 to 5.62°C.
    - Chlorophyll *a* concentrations ranged from 0.19 to 20.86 µg/L at the offshore sites.
    - Nothing of sewage origin was observed at SBOO offshore stations in November.
    - CDOM data are available upon request.

TABLES AND FIGURES

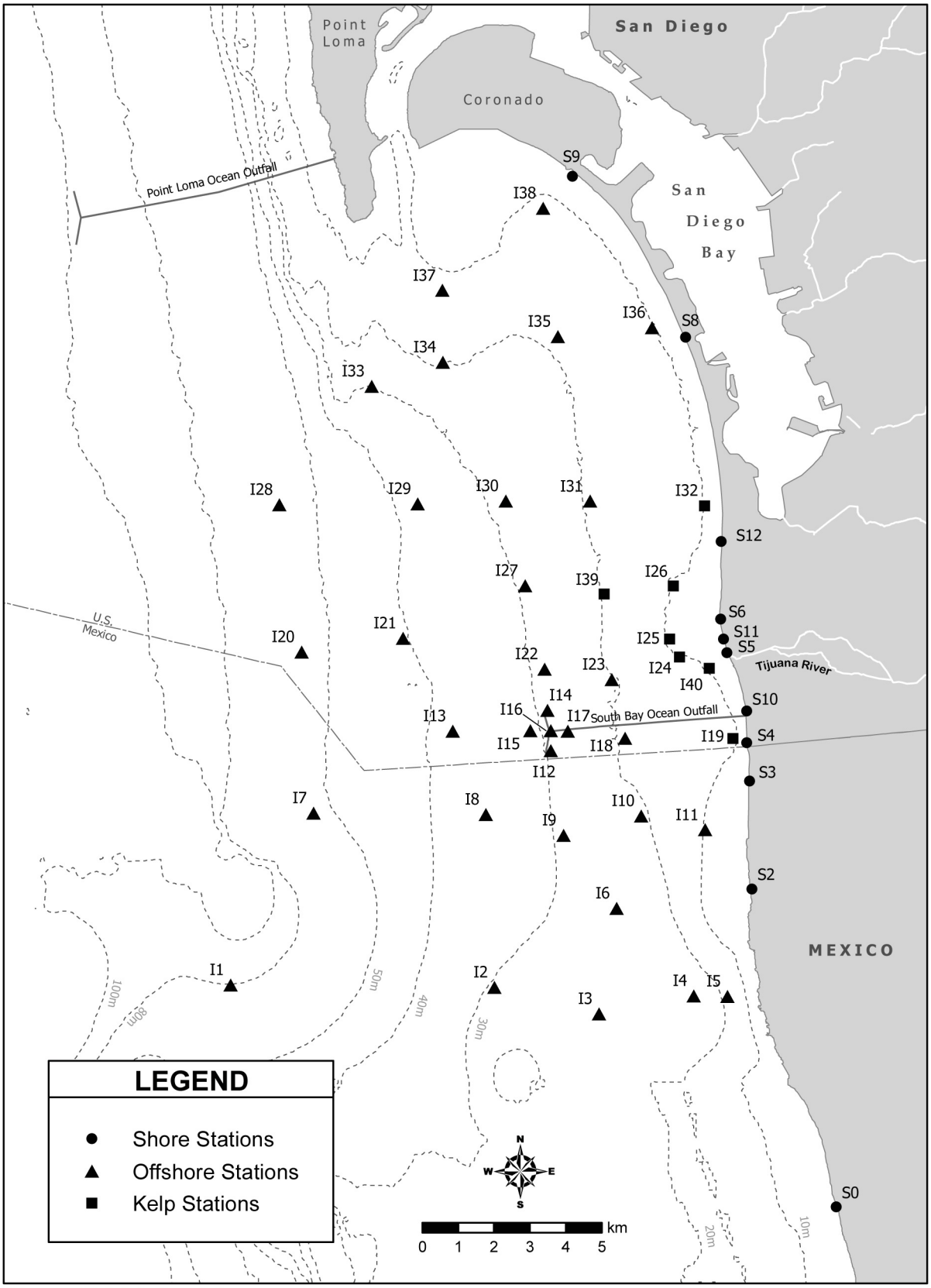

Figure 1.1 Station Map

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Shore Stations

Table 2.1

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Nov 2024	*14	*14	*4	*4	*6	*4	*9	*14
02 Nov 2024	*14	*14	*4	*4	*6	*4	*9	*14
03 Nov 2024	*14	*14	*4	*4	*6	*4	*9	*14
04 Nov 2024	*14	*14	*4	*4	*6	*4	*9	*14
05 Nov 2024	25	21	3	4	7	10	7	9
06 Nov 2024	25	21	3	4	7	10	7	9
07 Nov 2024	*20	*22	*4	*4	*6	*15	*5	*7
08 Nov 2024	*20	*22	*4	*4	*6	*15	*5	*7
09 Nov 2024	*20	*22	*4	*4	*6	*15	*5	*7
10 Nov 2024	*20	*22	*4	*4	*6	*15	*5	*7
11 Nov 2024	*20	*22	*4	*4	*6	*15	*5	*7
12 Nov 2024	37	66	3	4	5	30	7	8
13 Nov 2024	37	66	3	4	5	30	7	8
14 Nov 2024	*43	*112	*4	*4	*6	*39	*9	*12
15 Nov 2024	*43	*112	*4	*4	*6	*39	*9	*12
16 Nov 2024	*43	*112	*4	*4	*6	*39	*9	*12
17 Nov 2024	*43	*112	*4	*4	*6	*39	*9	*12
18 Nov 2024	*43	*112	*4	*4	*6	*39	*9	*12
19 Nov 2024	55	143	7	4	7	47	15	20
20 Nov 2024	55	143	7	4	7	47	15	20
21 Nov 2024	*125	***294**	*7	*4	*10	*103	*16	*11
22 Nov 2024	*125	***294**	*7	*4	*10	*103	*16	*11
23 Nov 2024	*125	***294**	*7	*4	*10	*103	*16	*11
24 Nov 2024	*125	***294**	*7	*4	*10	*103	*16	*11
25 Nov 2024	*125	***294**	*7	*4	*10	*103	*16	*11
26 Nov 2024	55	**618**	10	4	7	71	39	11
27 Nov 2024	55	**618**	10	4	7	71	39	11
28 Nov 2024	*77	***1275**	*10	*2	*6	*131	*47	*17
29 Nov 2024	*77	***1275**	*10	*2	*6	*131	*47	*17
30 Nov 2024	*77	***1275**	*10	*2	*6	*131	*47	*17

* 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
05 Nov 2024	IC	IC	IC	IC	IC	**E**	IC	IC
12 Nov 2024	**E**	**E**	IC	IC	IC	**E**	IC	IC
19 Nov 2024	IC	IC	IC	IC	IC	IC	IC	IC
26 Nov 2024	IC	**E**	IC	IC	IC	IC	**E**	IC

IC = In Compliance
E = Exceedance
ns = not sampled
ND = no data

Table 2.3

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Nov 2024	7	18	8	5	7	9	8	15
02 Nov 2024	7	18	8	5	7	9	8	15
03 Nov 2024	7	18	8	5	7	9	8	15
04 Nov 2024	7	18	8	5	7	9	8	15
05 Nov 2024	8	20	6	4	8	11	7	11
06 Nov 2024	10	17	5	5	10	6	8	15
07 Nov 2024	10	17	5	5	10	6	8	15
08 Nov 2024	10	17	5	5	10	6	8	15
09 Nov 2024	10	17	5	5	10	6	8	15
10 Nov 2024	10	17	5	5	10	6	8	15
11 Nov 2024	10	17	5	5	10	6	8	15
12 Nov 2024	20	28	6	4	13	11	11	12
13 Nov 2024	20	28	6	4	13	11	11	12
14 Nov 2024	20	28	6	4	13	11	11	12
15 Nov 2024	20	28	6	4	13	11	11	12
16 Nov 2024	20	28	6	4	13	11	11	12
17 Nov 2024	20	28	6	4	13	11	11	12
18 Nov 2024	20	28	6	4	13	11	11	12
19 Nov 2024	18	**41**	10	4	7	16	11	12
20 Nov 2024	18	**41**	10	4	7	16	11	12
21 Nov 2024	18	**41**	10	4	7	16	11	12
22 Nov 2024	18	**41**	10	4	7	16	11	12
23 Nov 2024	18	**41**	10	4	7	16	11	12
24 Nov 2024	18	**41**	10	4	7	16	11	12
25 Nov 2024	18	**41**	10	4	7	16	11	12
26 Nov 2024	13	**133**	13	5	7	**36**	30	12
27 Nov 2024	13	**133**	13	5	7	**36**	30	12
28 Nov 2024	13	**133**	13	5	7	**36**	30	12
29 Nov 2024	13	**133**	13	5	7	**36**	30	12
30 Nov 2024	13	**133**	13	5	7	**36**	30	12

* Geometric mean calculated using n<5

Table 2.4

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

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

IC = In Compliance
E = Exceedance
ns = not sampled
ND = no data

Table 2.5

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Nov 2024	***200**	*60	*20	*20	*50	*20	*60	***200**
02 Nov 2024	***200**	*60	*20	*20	*50	*20	*60	***200**
03 Nov 2024	***200**	*60	*20	*20	*50	*20	*60	***200**
04 Nov 2024	***200**	*60	*20	*20	*50	*20	*60	***200**
05 Nov 2024	**200**	**80**	20	20	**80**	20	40	**200**
06 Nov 2024	**200**	**80**	20	20	**80**	20	40	**200**
07 Nov 2024	***200**	***120**	*30	***110**	***110**	***110**	*30	***120**
08 Nov 2024	***200**	***120**	*30	***110**	***110**	***110**	*30	***120**
09 Nov 2024	***200**	***120**	*30	***110**	***110**	***110**	*30	***120**
10 Nov 2024	***200**	***120**	*30	***110**	***110**	***110**	*30	***120**
11 Nov 2024	***200**	***120**	*30	***110**	***110**	***110**	*30	***120**
12 Nov 2024	**200**	**200**	20	20	**200**	**200**	40	40
13 Nov 2024	**200**	**200**	20	20	**200**	**200**	40	40
14 Nov 2024	***700**	***300**	*20	***110**	***200**	***700**	*60	***110**
15 Nov 2024	***700**	***300**	*20	***110**	***200**	***700**	*60	***110**
16 Nov 2024	***700**	***300**	*20	***110**	***200**	***700**	*60	***110**
17 Nov 2024	***700**	***300**	*20	***110**	***200**	***700**	*60	***110**
18 Nov 2024	***700**	***300**	*20	***110**	***200**	***700**	*60	***110**
19 Nov 2024	**600**	**400**	20	20	**200**	**1000**	**80**	**200**
20 Nov 2024	**600**	**400**	20	20	**200**	**1000**	**80**	**200**
21 Nov 2024	***900**	***1100**	***110**	***110**	***200**	***1100**	***90**	***110**
22 Nov 2024	***900**	***1100**	***110**	***110**	***200**	***1100**	***90**	***110**
23 Nov 2024	***900**	***1100**	***110**	***110**	***200**	***1100**	***90**	***110**
24 Nov 2024	***900**	***1100**	***110**	***110**	***200**	***1100**	***90**	***110**
25 Nov 2024	***900**	***1100**	***110**	***110**	***200**	***1100**	***90**	***110**
26 Nov 2024	**600**	**1800**	**80**	20	**200**	**1000**	**140**	40
27 Nov 2024	**600**	**1800**	**80**	20	**200**	**1000**	**140**	40
28 Nov 2024	***900**	***8900**	***140**	*20	***110**	***1100**	***430**	*30
29 Nov 2024	***900**	***8900**	***140**	*20	***110**	***1100**	***430**	*30
30 Nov 2024	***900**	***8900**	***140**	*20	***110**	***1100**	***430**	*30

* 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 month.

Date	S4	S5	S6	S8	S9	S10	S11	S12
November	**E**	**E**	**E**	IC	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 fecal coliform (Fecal) and *Enterococcus* (Entero) are reported as CFU/100 mL. Comments follow the data summary.

Station	Date	Time	Total	Fecal	Entero
S0	05 Nov 2024	940	6800	2400e	10000
S0	12 Nov 2024	920	>16000	10000	6400
S0	19 Nov 2024	925	>16000	>12000	>12000
S0	26 Nov 2024	850	11000	2600e	980
S10	05 Nov 2024	819	1200e	480	60e
S10	12 Nov 2024	922	1500	420	64
S10	19 Nov 2024	1039	1000e	92	80e
S10	26 Nov 2024	1137	60e	16e	320e
S11	05 Nov 2024	1019	<20	<2	<2
S11	12 Nov 2024	1135	140e	18e	22e
S11	19 Nov 2024	952	720	94	24e
S11	26 Nov 2024	1044	9000	1400e	5800
S12	05 Nov 2024	1049	<20	<2	2e
S12	12 Nov 2024	1214	<20	<20	12e
S12	19 Nov 2024	849	1000e	160e	60
S12	26 Nov 2024	923	40e	12e	8e
S2	05 Nov 2024	1050	800	160e	280e
S2	12 Nov 2024	1020	40e	<2	4e
S2	19 Nov 2024	1020	1600e	700	140e
S2	26 Nov 2024	950	<20	<2	4e
S3	05 Nov 2024	1015	320e	140e	140e
S3	12 Nov 2024	950	4600	920	340e
S3	19 Nov 2024	955	4000	1200e	110
S3	26 Nov 2024	925	40e	4e	8e
S4	05 Nov 2024	840	1200e	280e	20e
S4	12 Nov 2024	947	4000	440	140e
S4	19 Nov 2024	1054	600e	140e	30e
S4	26 Nov 2024	1157	2e	2e	4e
S5	05 Nov 2024	956	400e	100e	40e
S5	12 Nov 2024	1112	>16000	5800	720
S5	19 Nov 2024	932	1800e	380e	100e
S5	26 Nov 2024	1020	>16000	>12000	>12000
S6	05 Nov 2024	1032	200e	<2	<2
S6	12 Nov 2024	1147	<20	<2	6e
S6	19 Nov 2024	1005	600e	96	32e
S6	26 Nov 2024	1058	80e	28e	96
S8	05 Nov 2024	1116	<200	<2	<2
S8	12 Nov 2024	1235	20e	<2	6e
S8	19 Nov 2024	831	<20	<2	4e
S8	26 Nov 2024	858	<20	2e	4e
S9	05 Nov 2024	1125	<200	<20	<20
S9	12 Nov 2024	1259	<200	<2	10e
S9	19 Nov 2024	817	<20	<20	2e
S9	26 Nov 2024	840	20e	<2	<2

ns = not sampled
ND = no data

Comments

date	station	depth	parmcode	comments
05-Nov-2024	S2			Non-selective media for pre-PS buffer check had a colony, but selective media had none. This likely not affected to the results.
05-Nov-2024	S3			Non-selective media for pre-PS buffer check had a colony, but selective media had none. This likely not affected to the results.
05-Nov-2024	S0			Non-selective media for pre-PS buffer check had a colony, but selective media had none. This likely not affected to the results.

Table 2.8

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

Station	Date	Parameter	Value
S0	05 Nov 2024	Arrive Time	940
S0	05 Nov 2024	Wind Speed (kts)	1
S0	05 Nov 2024	Wind Dir	NE
S0	05 Nov 2024	Animal Life	Dog-1; Seagull-10;
S0	05 Nov 2024	Floatables	None
S0	05 Nov 2024	Current Direction	N
S0	05 Nov 2024	Water Temp (C)	14
S0	05 Nov 2024	High Tide Time	942
S0	05 Nov 2024	Low Tide Time	308
S0	05 Nov 2024	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-2
S0	12 Nov 2024	Arrive Time	920
S0	12 Nov 2024	Wind Speed (kts)	1.2
S0	12 Nov 2024	Wind Dir	NE
S0	12 Nov 2024	Animal Life	Seagull-10;
S0	12 Nov 2024	Floatables	None
S0	12 Nov 2024	Current Direction	N
S0	12 Nov 2024	Water Temp (C)	13
S0	12 Nov 2024	High Tide Time	558
S0	12 Nov 2024	Low Tide Time	1229
S0	12 Nov 2024	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-2
S0	19 Nov 2024	Arrive Time	925
S0	19 Nov 2024	Wind Speed (kts)	1.1
S0	19 Nov 2024	Wind Dir	NE
S0	19 Nov 2024	Animal Life	Dog-1; Seagull-10;
S0	19 Nov 2024	Floatables	None
S0	19 Nov 2024	Current Direction	N
S0	19 Nov 2024	Water Temp (C)	13
S0	19 Nov 2024	High Tide Time	1026
S0	19 Nov 2024	Low Tide Time	409
S0	19 Nov 2024	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-2
S0	26 Nov 2024	Arrive Time	850
S0	26 Nov 2024	Wind Speed (kts)	1.2
S0	26 Nov 2024	Wind Dir	NE
S0	26 Nov 2024	Animal Life	Dog-1; Seagull-10;
S0	26 Nov 2024	Floatables	None
S0	26 Nov 2024	Current Direction	N
S0	26 Nov 2024	Water Temp (C)	12
S0	26 Nov 2024	High Tide Time	554
S0	26 Nov 2024	Low Tide Time	1241
S0	26 Nov 2024	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-2
S2	05 Nov 2024	Arrive Time	1050
S2	05 Nov 2024	Wind Speed (kts)	1.2
S2	05 Nov 2024	Wind Dir	NE
S2	05 Nov 2024	Animal Life	Dog-2; Seagull-10;
S2	05 Nov 2024	Floatables	None
S2	05 Nov 2024	Current Direction	N
S2	05 Nov 2024	Water Temp (C)	14
S2	05 Nov 2024	High Tide Time	942
S2	05 Nov 2024	Low Tide Time	308
S2	05 Nov 2024	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-10
S2	12 Nov 2024	Arrive Time	1020

Station	Date	Parameter	Value
S2	12 Nov 2024	Wind Speed (kts)	1
S2	12 Nov 2024	Wind Dir	NE
S2	12 Nov 2024	Animal Life	Dog-1; Seagull-10;
S2	12 Nov 2024	Floatables	None
S2	12 Nov 2024	Current Direction	N
S2	12 Nov 2024	Water Temp (C)	13
S2	12 Nov 2024	High Tide Time	558
S2	12 Nov 2024	Low Tide Time	1229
S2	12 Nov 2024	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-5
S2	19 Nov 2024	Arrive Time	1020
S2	19 Nov 2024	Wind Speed (kts)	1
S2	19 Nov 2024	Wind Dir	NE
S2	19 Nov 2024	Animal Life	Dog-2; Seagull-10;
S2	19 Nov 2024	Floatables	None
S2	19 Nov 2024	Current Direction	N
S2	19 Nov 2024	Water Temp (C)	13
S2	19 Nov 2024	High Tide Time	1026
S2	19 Nov 2024	Low Tide Time	409
S2	19 Nov 2024	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-5
S2	26 Nov 2024	Arrive Time	950
S2	26 Nov 2024	Wind Speed (kts)	1.4
S2	26 Nov 2024	Wind Dir	NE
S2	26 Nov 2024	Animal Life	Seagull-5;
S2	26 Nov 2024	Floatables	None
S2	26 Nov 2024	Current Direction	N
S2	26 Nov 2024	Water Temp (C)	12
S2	26 Nov 2024	High Tide Time	554
S2	26 Nov 2024	Low Tide Time	1241
S2	26 Nov 2024	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-10
S3	05 Nov 2024	Arrive Time	1015
S3	05 Nov 2024	Wind Speed (kts)	1.3
S3	05 Nov 2024	Wind Dir	NE
S3	05 Nov 2024	Animal Life	Dog-4; Seagull-10;
S3	05 Nov 2024	Floatables	None
S3	05 Nov 2024	Current Direction	N
S3	05 Nov 2024	Water Temp (C)	14
S3	05 Nov 2024	High Tide Time	942
S3	05 Nov 2024	Low Tide Time	308
S3	05 Nov 2024	Comments	Water turbid; Trash-0; Kelp; Person/Walker/Jogger-10
S3	12 Nov 2024	Arrive Time	950
S3	12 Nov 2024	Wind Speed (kts)	1.3
S3	12 Nov 2024	Wind Dir	NE
S3	12 Nov 2024	Animal Life	Dog-2; Seagull-10;
S3	12 Nov 2024	Floatables	None
S3	12 Nov 2024	Current Direction	N
S3	12 Nov 2024	Water Temp (C)	13
S3	12 Nov 2024	High Tide Time	558
S3	12 Nov 2024	Low Tide Time	1229
S3	12 Nov 2024	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-10
S3	19 Nov 2024	Arrive Time	955
S3	19 Nov 2024	Wind Speed (kts)	1.2
S3	19 Nov 2024	Wind Dir	NE
S3	19 Nov 2024	Animal Life	Seagull-10;
S3	19 Nov 2024	Floatables	None
S3	19 Nov 2024	Current Direction	N
S3	19 Nov 2024	Water Temp (C)	13

Station	Date	Parameter	Value
S3	19 Nov 2024	High Tide Time	1026
S3	19 Nov 2024	Low Tide Time	409
S3	19 Nov 2024	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-4
S3	26 Nov 2024	Arrive Time	925
S3	26 Nov 2024	Wind Speed (kts)	0.9
S3	26 Nov 2024	Wind Dir	NE
S3	26 Nov 2024	Animal Life	Dog-2; Seagull-5;
S3	26 Nov 2024	Floatables	None
S3	26 Nov 2024	Current Direction	N
S3	26 Nov 2024	Water Temp (C)	12
S3	26 Nov 2024	High Tide Time	554
S3	26 Nov 2024	Low Tide Time	1241
S3	26 Nov 2024	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-4
S4	05 Nov 2024	Arrive Time	840
S4	05 Nov 2024	Wind Speed (kts)	2.3
S4	05 Nov 2024	Wind Dir	S
S4	05 Nov 2024	Animal Life	
S4	05 Nov 2024	Floatables	None
S4	05 Nov 2024	Current Direction	S
S4	05 Nov 2024	Water Temp (C)	13.7
S4	05 Nov 2024	High Tide Time	942
S4	05 Nov 2024	Low Tide Time	308
S4	05 Nov 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S4	12 Nov 2024	Arrive Time	947
S4	12 Nov 2024	Wind Speed (kts)	2.6
S4	12 Nov 2024	Wind Dir	W
S4	12 Nov 2024	Animal Life	Bird-5;
S4	12 Nov 2024	Floatables	None
S4	12 Nov 2024	Current Direction	S
S4	12 Nov 2024	Water Temp (C)	14.1
S4	12 Nov 2024	High Tide Time	558
S4	12 Nov 2024	Low Tide Time	1229
S4	12 Nov 2024	Comments	Water clear; Trash-1; Kelp;Seagrass
S4	19 Nov 2024	Arrive Time	1054
S4	19 Nov 2024	Wind Speed (kts)	5.9
S4	19 Nov 2024	Wind Dir	NW
S4	19 Nov 2024	Animal Life	
S4	19 Nov 2024	Floatables	None
S4	19 Nov 2024	Current Direction	E
S4	19 Nov 2024	Water Temp (C)	13.7
S4	19 Nov 2024	High Tide Time	1026
S4	19 Nov 2024	Low Tide Time	409
S4	19 Nov 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S4	26 Nov 2024	Arrive Time	1157
S4	26 Nov 2024	Wind Speed (kts)	3.1
S4	26 Nov 2024	Wind Dir	W
S4	26 Nov 2024	Animal Life	Horse-4;
S4	26 Nov 2024	Floatables	None
S4	26 Nov 2024	Current Direction	S
S4	26 Nov 2024	Water Temp (C)	14.2
S4	26 Nov 2024	High Tide Time	554
S4	26 Nov 2024	Low Tide Time	1241
S4	26 Nov 2024	Comments	Water clear; Trash-1; Kelp;Seagrass
S10	05 Nov 2024	Arrive Time	819
S10	05 Nov 2024	Wind Speed (kts)	0.4

Station	Date	Parameter	Value
S10	05 Nov 2024	Wind Dir	SW
S10	05 Nov 2024	Animal Life	
S10	05 Nov 2024	Floatables	None
S10	05 Nov 2024	Current Direction	W
S10	05 Nov 2024	Water Temp (C)	14
S10	05 Nov 2024	High Tide Time	942
S10	05 Nov 2024	Low Tide Time	308
S10	05 Nov 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S10	12 Nov 2024	Arrive Time	922
S10	12 Nov 2024	Wind Speed (kts)	2.2
S10	12 Nov 2024	Wind Dir	W
S10	12 Nov 2024	Animal Life	
S10	12 Nov 2024	Floatables	None
S10	12 Nov 2024	Current Direction	S
S10	12 Nov 2024	Water Temp (C)	14.1
S10	12 Nov 2024	High Tide Time	558
S10	12 Nov 2024	Low Tide Time	1229
S10	12 Nov 2024	Comments	Water clear; Trash-1; Seagrass;Kelp; Person/Walker/Jogger-1
S10	19 Nov 2024	Arrive Time	1039
S10	19 Nov 2024	Wind Speed (kts)	3.3
S10	19 Nov 2024	Wind Dir	SW
S10	19 Nov 2024	Animal Life	
S10	19 Nov 2024	Floatables	None
S10	19 Nov 2024	Current Direction	E
S10	19 Nov 2024	Water Temp (C)	13.7
S10	19 Nov 2024	High Tide Time	1026
S10	19 Nov 2024	Low Tide Time	409
S10	19 Nov 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S10	26 Nov 2024	Arrive Time	1137
S10	26 Nov 2024	Wind Speed (kts)	4
S10	26 Nov 2024	Wind Dir	W
S10	26 Nov 2024	Animal Life	
S10	26 Nov 2024	Floatables	None
S10	26 Nov 2024	Current Direction	S
S10	26 Nov 2024	Water Temp (C)	13.8
S10	26 Nov 2024	High Tide Time	554
S10	26 Nov 2024	Low Tide Time	1241
S10	26 Nov 2024	Comments	Water clear; Trash-1; Seagrass;Kelp
S5	05 Nov 2024	Arrive Time	956
S5	05 Nov 2024	Wind Speed (kts)	0.7
S5	05 Nov 2024	Wind Dir	SW
S5	05 Nov 2024	Animal Life	
S5	05 Nov 2024	Floatables	None
S5	05 Nov 2024	Current Direction	W
S5	05 Nov 2024	Water Temp (C)	13.9
S5	05 Nov 2024	High Tide Time	942
S5	05 Nov 2024	Low Tide Time	308
S5	05 Nov 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S5	12 Nov 2024	Arrive Time	1112
S5	12 Nov 2024	Wind Speed (kts)	8.7
S5	12 Nov 2024	Wind Dir	W
S5	12 Nov 2024	Animal Life	
S5	12 Nov 2024	Floatables	None
S5	12 Nov 2024	Current Direction	S
S5	12 Nov 2024	Water Temp (C)	15.7

Station	Date	Parameter	Value
S5	12 Nov 2024	High Tide Time	558
S5	12 Nov 2024	Low Tide Time	1229
S5	12 Nov 2024	Comments	Water clear; Trash-1; Seagrass;Kelp
S5	19 Nov 2024	Arrive Time	932
S5	19 Nov 2024	Wind Speed (kts)	2.5
S5	19 Nov 2024	Wind Dir	W
S5	19 Nov 2024	Animal Life	
S5	19 Nov 2024	Floatables	Foam
S5	19 Nov 2024	Current Direction	E
S5	19 Nov 2024	Water Temp (C)	14.5
S5	19 Nov 2024	High Tide Time	1026
S5	19 Nov 2024	Low Tide Time	409
S5	19 Nov 2024	Comments	Water clear; Trash-1; Kelp;Debris;Seagrass
S5	26 Nov 2024	Arrive Time	1020
S5	26 Nov 2024	Wind Speed (kts)	1.9
S5	26 Nov 2024	Wind Dir	NW
S5	26 Nov 2024	Animal Life	
S5	26 Nov 2024	Floatables	None
S5	26 Nov 2024	Current Direction	S
S5	26 Nov 2024	Water Temp (C)	13.9
S5	26 Nov 2024	High Tide Time	554
S5	26 Nov 2024	Low Tide Time	1241
S5	26 Nov 2024	Comments	Water clear; Trash-2
S11	05 Nov 2024	Arrive Time	1019
S11	05 Nov 2024	Wind Speed (kts)	0.4
S11	05 Nov 2024	Wind Dir	W
S11	05 Nov 2024	Animal Life	
S11	05 Nov 2024	Floatables	None
S11	05 Nov 2024	Current Direction	W
S11	05 Nov 2024	Water Temp (C)	12.3
S11	05 Nov 2024	High Tide Time	942
S11	05 Nov 2024	Low Tide Time	308
S11	05 Nov 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S11	12 Nov 2024	Arrive Time	1135
S11	12 Nov 2024	Wind Speed (kts)	6.7
S11	12 Nov 2024	Wind Dir	W
S11	12 Nov 2024	Animal Life	
S11	12 Nov 2024	Floatables	None
S11	12 Nov 2024	Current Direction	S
S11	12 Nov 2024	Water Temp (C)	15.8
S11	12 Nov 2024	High Tide Time	558
S11	12 Nov 2024	Low Tide Time	1229
S11	12 Nov 2024	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-1
S11	19 Nov 2024	Arrive Time	952
S11	19 Nov 2024	Wind Speed (kts)	3.9
S11	19 Nov 2024	Wind Dir	SW
S11	19 Nov 2024	Animal Life	
S11	19 Nov 2024	Floatables	None
S11	19 Nov 2024	Current Direction	E
S11	19 Nov 2024	Water Temp (C)	10.8
S11	19 Nov 2024	High Tide Time	1026
S11	19 Nov 2024	Low Tide Time	409
S11	19 Nov 2024	Comments	Water clear; Trash-1; Seagrass;Kelp;Debris
S11	26 Nov 2024	Arrive Time	1044

Station	Date	Parameter	Value
S11	26 Nov 2024	Wind Speed (kts)	3.8
S11	26 Nov 2024	Wind Dir	W
S11	26 Nov 2024	Animal Life	Dog-1;
S11	26 Nov 2024	Floatables	None
S11	26 Nov 2024	Current Direction	S
S11	26 Nov 2024	Water Temp (C)	13.5
S11	26 Nov 2024	High Tide Time	554
S11	26 Nov 2024	Low Tide Time	1241
S11	26 Nov 2024	Comments	Water clear; Trash-2; Kelp;Seagrass; Person/Walker/Jogger-5
S6	05 Nov 2024	Arrive Time	1032
S6	05 Nov 2024	Wind Speed (kts)	0.4
S6	05 Nov 2024	Wind Dir	SW
S6	05 Nov 2024	Animal Life	
S6	05 Nov 2024	Floatables	None
S6	05 Nov 2024	Current Direction	W
S6	05 Nov 2024	Water Temp (C)	11.7
S6	05 Nov 2024	High Tide Time	942
S6	05 Nov 2024	Low Tide Time	308
S6	05 Nov 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris;Algae
S6	12 Nov 2024	Arrive Time	1147
S6	12 Nov 2024	Wind Speed (kts)	7.7
S6	12 Nov 2024	Wind Dir	W
S6	12 Nov 2024	Animal Life	
S6	12 Nov 2024	Floatables	None
S6	12 Nov 2024	Current Direction	S
S6	12 Nov 2024	Water Temp (C)	16.1
S6	12 Nov 2024	High Tide Time	558
S6	12 Nov 2024	Low Tide Time	1229
S6	12 Nov 2024	Comments	Water clear; Trash-1; Seagrass;Kelp;Algae
S6	19 Nov 2024	Arrive Time	1005
S6	19 Nov 2024	Wind Speed (kts)	6.3
S6	19 Nov 2024	Wind Dir	W
S6	19 Nov 2024	Animal Life	
S6	19 Nov 2024	Floatables	None
S6	19 Nov 2024	Current Direction	E
S6	19 Nov 2024	Water Temp (C)	13.3
S6	19 Nov 2024	High Tide Time	1026
S6	19 Nov 2024	Low Tide Time	409
S6	19 Nov 2024	Comments	Water clear; Trash-1; Kelp;Algae;Seagrass;Debris
S6	26 Nov 2024	Arrive Time	1058
S6	26 Nov 2024	Wind Speed (kts)	5
S6	26 Nov 2024	Wind Dir	W
S6	26 Nov 2024	Animal Life	
S6	26 Nov 2024	Floatables	None
S6	26 Nov 2024	Current Direction	S
S6	26 Nov 2024	Water Temp (C)	11.8
S6	26 Nov 2024	High Tide Time	554
S6	26 Nov 2024	Low Tide Time	1241
S6	26 Nov 2024	Comments	Water clear; Trash-2; Kelp;Seagrass;Algae
S12	05 Nov 2024	Arrive Time	1049
S12	05 Nov 2024	Wind Speed (kts)	4.1
S12	05 Nov 2024	Wind Dir	W
S12	05 Nov 2024	Animal Life	
S12	05 Nov 2024	Floatables	None
S12	05 Nov 2024	Current Direction	W

Station	Date	Parameter	Value
S12	05 Nov 2024	Water Temp (C)	15.4
S12	05 Nov 2024	High Tide Time	942
S12	05 Nov 2024	Low Tide Time	308
S12	05 Nov 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S12	12 Nov 2024	Arrive Time	1214
S12	12 Nov 2024	Wind Speed (kts)	8.5
S12	12 Nov 2024	Wind Dir	W
S12	12 Nov 2024	Animal Life	Bird-6;
S12	12 Nov 2024	Floatables	None
S12	12 Nov 2024	Current Direction	S
S12	12 Nov 2024	Water Temp (C)	16.3
S12	12 Nov 2024	High Tide Time	558
S12	12 Nov 2024	Low Tide Time	1229
S12	12 Nov 2024	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-2
S12	19 Nov 2024	Arrive Time	849
S12	19 Nov 2024	Wind Speed (kts)	0.5
S12	19 Nov 2024	Wind Dir	W
S12	19 Nov 2024	Animal Life	
S12	19 Nov 2024	Floatables	None
S12	19 Nov 2024	Current Direction	E
S12	19 Nov 2024	Water Temp (C)	13
S12	19 Nov 2024	High Tide Time	1026
S12	19 Nov 2024	Low Tide Time	409
S12	19 Nov 2024	Comments	Water clear; Trash-1; Kelp;Debris;Seagrass
S12	26 Nov 2024	Arrive Time	923
S12	26 Nov 2024	Wind Speed (kts)	3.3
S12	26 Nov 2024	Wind Dir	W
S12	26 Nov 2024	Animal Life	Dog-1;
S12	26 Nov 2024	Floatables	None
S12	26 Nov 2024	Current Direction	S
S12	26 Nov 2024	Water Temp (C)	13.9
S12	26 Nov 2024	High Tide Time	554
S12	26 Nov 2024	Low Tide Time	1241
S12	26 Nov 2024	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-3
S8	05 Nov 2024	Arrive Time	1106
S8	05 Nov 2024	Wind Speed (kts)	4.93
S8	05 Nov 2024	Wind Dir	W
S8	05 Nov 2024	Animal Life	
S8	05 Nov 2024	Floatables	None
S8	05 Nov 2024	Current Direction	W
S8	05 Nov 2024	Water Temp (C)	16.1
S8	05 Nov 2024	High Tide Time	942
S8	05 Nov 2024	Low Tide Time	308
S8	05 Nov 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S8	12 Nov 2024	Arrive Time	1235
S8	12 Nov 2024	Wind Speed (kts)	9.8
S8	12 Nov 2024	Wind Dir	W
S8	12 Nov 2024	Animal Life	
S8	12 Nov 2024	Floatables	None
S8	12 Nov 2024	Current Direction	S
S8	12 Nov 2024	Water Temp (C)	16.4
S8	12 Nov 2024	High Tide Time	558
S8	12 Nov 2024	Low Tide Time	1229

Station	Date	Parameter	Value
S8	12 Nov 2024	Comments	Water clear; Trash-1; Seagrass;Kelp; Person/Walker/Jogger-3
S8	19 Nov 2024	Arrive Time	831
S8	19 Nov 2024	Wind Speed (kts)	0
S8	19 Nov 2024	Wind Dir	W
S8	19 Nov 2024	Animal Life	Bird-1;
S8	19 Nov 2024	Floatables	None
S8	19 Nov 2024	Current Direction	W
S8	19 Nov 2024	Water Temp (C)	13.2
S8	19 Nov 2024	High Tide Time	1026
S8	19 Nov 2024	Low Tide Time	409
S8	19 Nov 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S8	26 Nov 2024	Arrive Time	858
S8	26 Nov 2024	Wind Speed (kts)	0
S8	26 Nov 2024	Wind Dir	XX
S8	26 Nov 2024	Animal Life	
S8	26 Nov 2024	Floatables	None
S8	26 Nov 2024	Current Direction	S
S8	26 Nov 2024	Water Temp (C)	14
S8	26 Nov 2024	High Tide Time	554
S8	26 Nov 2024	Low Tide Time	1241
S8	26 Nov 2024	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-10
S9	05 Nov 2024	Arrive Time	1125
S9	05 Nov 2024	Wind Speed (kts)	2.8
S9	05 Nov 2024	Wind Dir	W
S9	05 Nov 2024	Animal Life	
S9	05 Nov 2024	Floatables	None
S9	05 Nov 2024	Current Direction	W
S9	05 Nov 2024	Water Temp (C)	16
S9	05 Nov 2024	High Tide Time	942
S9	05 Nov 2024	Low Tide Time	308
S9	05 Nov 2024	Comments	Water clear; Trash-1; Debris;Seagrass;Kelp; Person/Walker/Jogger-2
S9	12 Nov 2024	Arrive Time	1259
S9	12 Nov 2024	Wind Speed (kts)	58
S9	12 Nov 2024	Wind Dir	W
S9	12 Nov 2024	Animal Life	Bird-5;
S9	12 Nov 2024	Floatables	None
S9	12 Nov 2024	Current Direction	S
S9	12 Nov 2024	Water Temp (C)	15.6
S9	12 Nov 2024	High Tide Time	558
S9	12 Nov 2024	Low Tide Time	1229
S9	12 Nov 2024	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-4
S9	19 Nov 2024	Arrive Time	817
S9	19 Nov 2024	Wind Speed (kts)	0
S9	19 Nov 2024	Wind Dir	W
S9	19 Nov 2024	Animal Life	
S9	19 Nov 2024	Floatables	None
S9	19 Nov 2024	Current Direction	W
S9	19 Nov 2024	Water Temp (C)	12.8
S9	19 Nov 2024	High Tide Time	1026
S9	19 Nov 2024	Low Tide Time	409
S9	19 Nov 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris; Person/Walker/Jogger-3

Station	Date	Parameter	Value
S9	26 Nov 2024	Arrive Time	840
S9	26 Nov 2024	Wind Speed (kts)	1.9
S9	26 Nov 2024	Wind Dir	W
S9	26 Nov 2024	Animal Life	
S9	26 Nov 2024	Floatables	None
S9	26 Nov 2024	Current Direction	S
S9	26 Nov 2024	Water Temp (C)	13.8
S9	26 Nov 2024	High Tide Time	554
S9	26 Nov 2024	Low Tide Time	1241
S9	26 Nov 2024	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-4

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Kelp Stations

Table 3.1

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

Date	I19	I24	I25	I26	I32	I39	I40
01 Nov 2024	*3	*4	*2	*2	*5	*3	*3
02 Nov 2024	*3	*4	*2	*2	*5	*3	*3
03 Nov 2024	*3	*4	*2	*2	*5	*3	*3
04 Nov 2024	3	3	2	2	4	3	3
05 Nov 2024	3	3	2	2	4	3	3
06 Nov 2024	3	3	2	2	4	3	3
07 Nov 2024	*3	*4	*2	*2	*5	*3	*3
08 Nov 2024	*3	*4	*2	*2	*5	*3	*3
09 Nov 2024	*3	*4	*2	*2	*5	*3	*3
10 Nov 2024	*3	*4	*2	*2	*5	*3	*3
11 Nov 2024	*3	*4	*2	*2	*5	*3	*3
12 Nov 2024	8	3	2	3	10	3	5
13 Nov 2024	8	3	2	3	10	3	5
14 Nov 2024	*9	*4	*2	*3	*5	*3	*4
15 Nov 2024	*9	*4	*2	*3	*5	*3	*4
16 Nov 2024	*9	*4	*2	*3	*5	*3	*4
17 Nov 2024	*9	*4	*2	*3	*5	*3	*4
18 Nov 2024	20	8	6	9	4	4	8
19 Nov 2024	20	8	6	9	4	4	8
20 Nov 2024	*37	*8	*8	*13	*5	*3	*11
21 Nov 2024	*37	*8	*8	*13	*5	*3	*11
22 Nov 2024	*37	*8	*8	*13	*5	*3	*11
23 Nov 2024	*37	*8	*8	*13	*5	*3	*11
24 Nov 2024	*37	*8	*8	*13	*5	*3	*11
25 Nov 2024	*37	*8	*8	*13	*5	*3	*11
26 Nov 2024	22	6	8	11	4	3	16
27 Nov 2024	22	6	8	11	4	3	16
28 Nov 2024	22	6	8	11	4	3	16
29 Nov 2024	*31	*6	*11	*16	*5	*3	*27
30 Nov 2024	*31	*6	*11	*16	*5	*3	*27

* 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
04 Nov 2024	IC	IC	IC	IC	IC	IC	IC
12 Nov 2024	**E**	IC	IC	IC	IC	IC	IC
18 Nov 2024	**E**	IC	IC	**E**	IC	IC	**E**
26 Nov 2024	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
E = Exceedance
ns = not sampled
ND = no data

Table 3.3

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

Date	I19	I24	I25	I26	I32	I39	I40
01 Nov 2024	2	3	3	2	3	3	4
02 Nov 2024	2	3	3	2	3	3	4
03 Nov 2024	2	3	3	2	3	3	4
04 Nov 2024	2	3	3	2	3	2	3
05 Nov 2024	2	3	3	2	3	3	4
06 Nov 2024	2	3	3	2	3	3	4
07 Nov 2024	2	3	3	2	3	3	4
08 Nov 2024	2	3	3	2	3	3	4
09 Nov 2024	2	3	3	2	3	3	4
10 Nov 2024	2	3	3	2	3	3	4
11 Nov 2024	2	3	3	2	4	3	4
12 Nov 2024	4	3	3	3	7	3	6
13 Nov 2024	4	3	3	3	7	3	6
14 Nov 2024	4	3	3	3	7	3	6
15 Nov 2024	4	3	3	3	7	3	6
16 Nov 2024	4	3	3	3	7	3	6
17 Nov 2024	4	3	3	3	7	3	6
18 Nov 2024	6	4	5	5	6	3	7
19 Nov 2024	7	5	6	5	7	3	9
20 Nov 2024	7	5	6	5	7	3	9
21 Nov 2024	7	5	6	5	7	3	9
22 Nov 2024	7	5	6	5	7	3	9
23 Nov 2024	7	5	6	5	7	3	9
24 Nov 2024	7	5	6	5	7	3	9
25 Nov 2024	7	5	6	5	7	3	9
26 Nov 2024	10	5	9	6	4	3	10
27 Nov 2024	10	5	9	6	4	3	10
28 Nov 2024	10	5	9	6	4	3	10
29 Nov 2024	10	5	9	6	4	3	10
30 Nov 2024	10	5	9	6	4	3	10

* Geometric mean calculated using n<5

Table 3.4

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

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

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 over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

	I19			I24			I25			I26			I32			I39			I40		
Date	**2m**	**6m**	**11m**	**2m**	**6m**	**11m**	**2m**	**6m**	**9m**	**2m**	**6m**	**9m**	**2m**	**6m**	**9m**	**2m**	**12m**	**18m**	**2m**	**6m**	**9m**
01 Nov 2024	*9	*13	*12	*2	*13	*50	*3	*11	*11	*2	*2	*3	*11	*12	*21	*2	*2	*3	***110**	*14	*12
02 Nov 2024	*9	*13	*12	*2	*13	*50	*3	*11	*11	*2	*2	*3	*11	*12	*21	*2	*2	*3	***110**	*14	*12
03 Nov 2024	*9	*13	*12	*2	*13	*50	*3	*11	*11	*2	*2	*3	*11	*12	*21	*2	*2	*3	***110**	*14	*12
04 Nov 2024	16	6	20	2	20	20	2	2	2	2	2	2	20	20	20	2	2	2	20	8	4
05 Nov 2024	16	6	20	2	20	20	2	2	2	2	2	2	20	20	20	2	2	2	20	8	4
06 Nov 2024	16	6	20	2	20	20	2	2	2	2	2	2	20	20	20	2	2	2	20	8	4
07 Nov 2024	*11	*11	*20	*2	*22	*50	*3	*11	*11	*11	*3	*3	*20	*20	*30	*2	*2	*3	***110**	*14	*12
08 Nov 2024	*11	*11	*20	*2	*22	*50	*3	*11	*11	*11	*3	*3	*20	*20	*30	*2	*2	*3	***110**	*14	*12
09 Nov 2024	*11	*11	*20	*2	*22	*50	*3	*11	*11	*11	*3	*3	*20	*20	*30	*2	*2	*3	***110**	*14	*12
10 Nov 2024	*11	*11	*20	*2	*22	*50	*3	*11	*11	*11	*3	*3	*20	*20	*30	*2	*2	*3	***110**	*14	*12
11 Nov 2024	*11	*11	*20	*2	*22	*50	*3	*11	*11	*11	*3	*3	*20	*20	*30	*2	*2	*3	***110**	*14	*12
12 Nov 2024	20	20	20	2	20	28	2	8	20	12	4	4	20	20	40	2	2	4	**100**	20	20
13 Nov 2024	20	20	20	2	20	28	2	8	20	12	4	4	20	20	40	2	2	4	**100**	20	20
14 Nov 2024	*24	*41	*20	*2	*22	*54	*3	*5	*28	*16	*12	*3	*20	*20	*30	*2	*6	*12	*60	*14	*12
15 Nov 2024	*24	*41	*20	*2	*22	*54	*3	*5	*28	*16	*12	*3	*20	*20	*30	*2	*6	*12	*60	*14	*12
16 Nov 2024	*24	*41	*20	*2	*22	*54	*3	*5	*28	*16	*12	*3	*20	*20	*30	*2	*6	*12	*60	*14	*12
17 Nov 2024	*24	*41	*20	*2	*22	*54	*3	*5	*28	*16	*12	*3	*20	*20	*30	*2	*6	*12	*60	*14	*12
18 Nov 2024	28	**80**	20	2	24	**80**	4	8	36	20	20	4	20	20	20	2	10	20	**80**	20	20
19 Nov 2024	28	**80**	20	2	24	**80**	4	8	36	20	20	4	20	20	20	2	10	20	**80**	20	20
20 Nov 2024	***74**	***530**	***710**	*11	***410**	*54	*51	*5	*28	*20	*41	*33	*20	*20	*30	*2	*6	*12	***90**	*60	***110**
21 Nov 2024	***74**	***530**	***710**	*11	***410**	*54	*51	*5	*28	*20	*41	*33	*20	*20	*30	*2	*6	*12	***90**	*60	***110**
22 Nov 2024	***74**	***530**	***710**	*11	***410**	*54	*51	*5	*28	*20	*41	*33	*20	*20	*30	*2	*6	*12	***90**	*60	***110**
23 Nov 2024	***74**	***530**	***710**	*11	***410**	*54	*51	*5	*28	*20	*41	*33	*20	*20	*30	*2	*6	*12	***90**	*60	***110**
24 Nov 2024	***74**	***530**	***710**	*11	***410**	*54	*51	*5	*28	*20	*41	*33	*20	*20	*30	*2	*6	*12	***90**	*60	***110**
25 Nov 2024	***74**	***530**	***710**	*11	***410**	*54	*51	*5	*28	*20	*41	*33	*20	*20	*30	*2	*6	*12	***90**	*60	***110**
26 Nov 2024	28	**80**	20	2	20	28	**80**	8	20	20	40	16	20	20	20	2	4	4	**100**	**100**	**200**
27 Nov 2024	28	**80**	20	2	20	28	**80**	8	20	20	40	16	20	20	20	2	4	4	**100**	**100**	**200**
28 Nov 2024	28	**80**	20	2	20	28	**80**	8	20	20	40	16	20	20	20	2	4	4	**100**	**100**	**200**
29 Nov 2024	*70	***496**	***710**	*2	*11	*15	*41	*8	*19	*20	*51	*39	*11	*20	*20	*3	*7	*11	***90**	***120**	***270**
30 Nov 2024	*70	***496**	***710**	*2	*11	*15	*41	*8	*19	*20	*51	*39	*11	*20	*20	*3	*7	*11	***90**	***120**	***270**

* Median calculated using n<5

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 month.

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

IC = In Compliance
E = Exceedance
ns = not sampled
ND = no data

Table 3.7

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

Station	Date	Time	Depth	Total	Fecal	Entero
I19	04 Nov 2024	1058	2	20e	4e	<2
I19	04 Nov 2024	1058	6	<2	<2	<2
I19	04 Nov 2024	1058	11	20e	2e	4e
I19	12 Nov 2024	1023	2	120	18e	4e
I19	12 Nov 2024	1023	6	980	300e	50
I19	12 Nov 2024	1023	11	1400	460	66
I19	18 Nov 2024	1057	2	2200e	640	40e
I19	18 Nov 2024	1057	6	1600e	540	110
I19	18 Nov 2024	1057	11	2000e	280e	100
I19	26 Nov 2024	1002	2	<20	<2	28e
I19	26 Nov 2024	1002	6	12e	4e	34e
I19	26 Nov 2024	1002	11	6e	2e	14e
I24	04 Nov 2024	1121	2	<2	<2	<2
I24	04 Nov 2024	1121	6	<20	<2	<2
I24	04 Nov 2024	1121	11	2e	<2	<2
I24	12 Nov 2024	1044	2	<2	<2	<2
I24	12 Nov 2024	1044	6	<2	2e	<2
I24	12 Nov 2024	1044	11	28e	2e	2e
I24	18 Nov 2024	1121	2	1300	220e	86
I24	18 Nov 2024	1121	6	4800	360e	120e
I24	18 Nov 2024	1121	11	340e	52	18e
I24	26 Nov 2024	1024	2	2e	<2	2e
I24	26 Nov 2024	1024	6	<2	<2	<2
I24	26 Nov 2024	1024	11	<2	<2	<2
I25	04 Nov 2024	1129	2	<2	<2	<2
I25	04 Nov 2024	1129	6	<2	<2	<2
I25	04 Nov 2024	1129	9	<2	<2	<2
I25	12 Nov 2024	1054	2	<2	<2	<2
I25	12 Nov 2024	1054	6	8e	<2	4e
I25	12 Nov 2024	1054	9	36e	4e	4e
I25	18 Nov 2024	1128	2	1800e	320e	120e
I25	18 Nov 2024	1128	6	3400e	340e	160e
I25	18 Nov 2024	1128	9	1100	240e	52
I25	26 Nov 2024	1030	2	80e	14e	66
I25	26 Nov 2024	1030	6	8e	8e	4e
I25	26 Nov 2024	1030	9	<2	<2	2e
I26	04 Nov 2024	1139	2	<20	<2	<2
I26	04 Nov 2024	1139	6	<20	<2	<2
I26	04 Nov 2024	1139	9	<2	<2	<2

Station	Date	Time	Depth	Total	Fecal	Entero
I26	12 Nov 2024	1103	2	12e	4e	30e
I26	12 Nov 2024	1103	6	62	6e	10e
I26	12 Nov 2024	1103	9	62	6e	16e
I26	18 Nov 2024	1141	2	5000	400e	94
I26	18 Nov 2024	1141	6	8800	2400e	100e
I26	18 Nov 2024	1141	9	5800	1100	80
I26	26 Nov 2024	1039	2	20e	<2	6e
I26	26 Nov 2024	1039	6	40e	8e	8e
I26	26 Nov 2024	1039	9	16e	4e	2e
I32	04 Nov 2024	1150	2	<20	<2	<2
I32	04 Nov 2024	1150	6	<20	<2	<2
I32	04 Nov 2024	1150	9	<20	<2	<2
I32	12 Nov 2024	1113	2	240e	40e	100e
I32	12 Nov 2024	1113	6	600	140e	180e
I32	12 Nov 2024	1113	9	360e	100e	180e
I32	18 Nov 2024	1152	2	<2	<2	<2
I32	18 Nov 2024	1152	6	<20	<2	<2
I32	18 Nov 2024	1152	9	<2	<2	<2
I32	26 Nov 2024	1050	2	<2	<2	<2
I32	26 Nov 2024	1050	6	4e	<2	4e
I32	26 Nov 2024	1050	9	<20	2e	<2
I39	04 Nov 2024	1039	2	<2	<2	<2
I39	04 Nov 2024	1039	12	<2	<2	<2
I39	04 Nov 2024	1039	18	<2	<2	<2
I39	12 Nov 2024	1004	2	<2	<2	<2
I39	12 Nov 2024	1004	12	10e	<2	6e
I39	12 Nov 2024	1004	18	20e	<2	2e
I39	18 Nov 2024	1027	2	4e	<2	2e
I39	18 Nov 2024	1027	12	220e	20e	8e
I39	18 Nov 2024	1027	18	46	12e	2e
I39	26 Nov 2024	940	2	6e	<2	2e
I39	26 Nov 2024	940	12	4e	<2	<2
I39	26 Nov 2024	940	18	<2	<2	2e
I40	04 Nov 2024	1111	2	<20	<2	2e
I40	04 Nov 2024	1111	6	2e	<2	<2
I40	04 Nov 2024	1111	9	<2	<2	<2
I40	12 Nov 2024	1035	2	100e	18e	58
I40	12 Nov 2024	1035	6	100e	22e	18e
I40	12 Nov 2024	1035	9	200e	24e	24e
I40	18 Nov 2024	1111	2	80e	12e	14e
I40	18 Nov 2024	1111	6	140e	28e	12e
I40	18 Nov 2024	1111	9	2800e	420	60e
I40	26 Nov 2024	1015	2	480	40e	80
I40	26 Nov 2024	1015	6	800e	160e	66
I40	26 Nov 2024	1015	9	340e	60e	70

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	04 Nov 2024	Arrive Time	1058
I19	04 Nov 2024	Depart Time	1106
I19	04 Nov 2024	Air Temp (C)	16.4
I19	04 Nov 2024	Visibility (mi)	10
I19	04 Nov 2024	Wind Speed (kts)	1.2
I19	04 Nov 2024	Wind Dir	W
I19	04 Nov 2024	Sea State	Regular Swell
I19	04 Nov 2024	High Tide Time	918
I19	04 Nov 2024	Low Tide Time	1700
I19	04 Nov 2024	Comments	Freshwater Lens
I19	12 Nov 2024	Arrive Time	1023
I19	12 Nov 2024	Depart Time	1027
I19	12 Nov 2024	Air Temp (C)	16.6
I19	12 Nov 2024	Visibility (mi)	11
I19	12 Nov 2024	Wind Speed (kts)	5.6
I19	12 Nov 2024	Wind Dir	W
I19	12 Nov 2024	Sea State	Regular Swell
I19	12 Nov 2024	High Tide Time	554
I19	12 Nov 2024	Low Tide Time	6
I19	12 Nov 2024	Comments	
I19	18 Nov 2024	Arrive Time	1057
I19	18 Nov 2024	Depart Time	1103
I19	18 Nov 2024	Air Temp (C)	14.9
I19	18 Nov 2024	Visibility (mi)	10
I19	18 Nov 2024	Wind Speed (kts)	13.1
I19	18 Nov 2024	Wind Dir	SE
I19	18 Nov 2024	Sea State	Light Chop
I19	18 Nov 2024	High Tide Time	936
I19	18 Nov 2024	Low Tide Time	1712
I19	18 Nov 2024	Comments	
I19	26 Nov 2024	Arrive Time	1002
I19	26 Nov 2024	Depart Time	1006
I19	26 Nov 2024	Air Temp (C)	14.9
I19	26 Nov 2024	Visibility (mi)	10
I19	26 Nov 2024	Wind Speed (kts)	3.7
I19	26 Nov 2024	Wind Dir	NW
I19	26 Nov 2024	Sea State	Calm
I19	26 Nov 2024	High Tide Time	600
I19	26 Nov 2024	Low Tide Time	1236
I19	26 Nov 2024	Comments	
I40	04 Nov 2024	Arrive Time	1111
I40	04 Nov 2024	Depart Time	1113
I40	04 Nov 2024	Air Temp (C)	16.7
I40	04 Nov 2024	Visibility (mi)	10
I40	04 Nov 2024	Wind Speed (kts)	2.8
I40	04 Nov 2024	Wind Dir	W
I40	04 Nov 2024	Sea State	Regular Swell
I40	04 Nov 2024	High Tide Time	918
I40	04 Nov 2024	Low Tide Time	1700
I40	04 Nov 2024	Comments	Freshwater Lens
I40	12 Nov 2024	Arrive Time	1035

Station	Date	Parameter	Value
I40	12 Nov 2024	Depart Time	1038
I40	12 Nov 2024	Air Temp (C)	16.5
I40	12 Nov 2024	Visibility (mi)	11
I40	12 Nov 2024	Wind Speed (kts)	3.9
I40	12 Nov 2024	Wind Dir	W
I40	12 Nov 2024	Sea State	Regular Swell
I40	12 Nov 2024	High Tide Time	554
I40	12 Nov 2024	Low Tide Time	6
I40	12 Nov 2024	Comments	
I40	18 Nov 2024	Arrive Time	1111
I40	18 Nov 2024	Depart Time	1116
I40	18 Nov 2024	Air Temp (C)	15
I40	18 Nov 2024	Visibility (mi)	10
I40	18 Nov 2024	Wind Speed (kts)	11.3
I40	18 Nov 2024	Wind Dir	SE
I40	18 Nov 2024	Sea State	Light Chop
I40	18 Nov 2024	High Tide Time	936
I40	18 Nov 2024	Low Tide Time	1712
I40	18 Nov 2024	Comments	
I40	26 Nov 2024	Arrive Time	1015
I40	26 Nov 2024	Depart Time	1017
I40	26 Nov 2024	Air Temp (C)	14.6
I40	26 Nov 2024	Visibility (mi)	10
I40	26 Nov 2024	Wind Speed (kts)	5.3
I40	26 Nov 2024	Wind Dir	W
I40	26 Nov 2024	Sea State	Calm
I40	26 Nov 2024	High Tide Time	600
I40	26 Nov 2024	Low Tide Time	1236
I40	26 Nov 2024	Comments	
I24	04 Nov 2024	Arrive Time	1121
I24	04 Nov 2024	Depart Time	1124
I24	04 Nov 2024	Air Temp (C)	16.9
I24	04 Nov 2024	Visibility (mi)	10
I24	04 Nov 2024	Wind Speed (kts)	1.9
I24	04 Nov 2024	Wind Dir	W
I24	04 Nov 2024	Sea State	Regular Swell
I24	04 Nov 2024	High Tide Time	918
I24	04 Nov 2024	Low Tide Time	1700
I24	04 Nov 2024	Comments	
I24	12 Nov 2024	Arrive Time	1044
I24	12 Nov 2024	Depart Time	1049
I24	12 Nov 2024	Air Temp (C)	16.3
I24	12 Nov 2024	Visibility (mi)	11
I24	12 Nov 2024	Wind Speed (kts)	8.4
I24	12 Nov 2024	Wind Dir	W
I24	12 Nov 2024	Sea State	Regular Swell
I24	12 Nov 2024	High Tide Time	554
I24	12 Nov 2024	Low Tide Time	6
I24	12 Nov 2024	Comments	
I24	18 Nov 2024	Arrive Time	1121
I24	18 Nov 2024	Depart Time	1126
I24	18 Nov 2024	Air Temp (C)	15
I24	18 Nov 2024	Visibility (mi)	10
I24	18 Nov 2024	Wind Speed (kts)	10.1
I24	18 Nov 2024	Wind Dir	SE
I24	18 Nov 2024	Sea State	Light Chop

Station	Date	Parameter	Value
I24	18 Nov 2024	High Tide Time	936
I24	18 Nov 2024	Low Tide Time	1712
I24	18 Nov 2024	Comments	
I24	26 Nov 2024	Arrive Time	1024
I24	26 Nov 2024	Depart Time	1026
I24	26 Nov 2024	Air Temp (C)	14.7
I24	26 Nov 2024	Visibility (mi)	10
I24	26 Nov 2024	Wind Speed (kts)	7
I24	26 Nov 2024	Wind Dir	W
I24	26 Nov 2024	Sea State	Wind Ripples
I24	26 Nov 2024	High Tide Time	600
I24	26 Nov 2024	Low Tide Time	1236
I24	26 Nov 2024	Comments	
I25	04 Nov 2024	Arrive Time	1129
I25	04 Nov 2024	Depart Time	1136
I25	04 Nov 2024	Air Temp (C)	16.9
I25	04 Nov 2024	Visibility (mi)	10
I25	04 Nov 2024	Wind Speed (kts)	4.2
I25	04 Nov 2024	Wind Dir	W
I25	04 Nov 2024	Sea State	Regular Swell
I25	04 Nov 2024	High Tide Time	918
I25	04 Nov 2024	Low Tide Time	1700
I25	04 Nov 2024	Comments	Very high chl at mid depth; Possible Red Tide
I25	12 Nov 2024	Arrive Time	1054
I25	12 Nov 2024	Depart Time	1056
I25	12 Nov 2024	Air Temp (C)	16.3
I25	12 Nov 2024	Visibility (mi)	11
I25	12 Nov 2024	Wind Speed (kts)	9.7
I25	12 Nov 2024	Wind Dir	SW
I25	12 Nov 2024	Sea State	Regular Swell
I25	12 Nov 2024	High Tide Time	554
I25	12 Nov 2024	Low Tide Time	6
I25	12 Nov 2024	Comments	
I25	18 Nov 2024	Arrive Time	1128
I25	18 Nov 2024	Depart Time	1131
I25	18 Nov 2024	Air Temp (C)	15
I25	18 Nov 2024	Visibility (mi)	10
I25	18 Nov 2024	Wind Speed (kts)	10.1
I25	18 Nov 2024	Wind Dir	SE
I25	18 Nov 2024	Sea State	Light Chop
I25	18 Nov 2024	High Tide Time	936
I25	18 Nov 2024	Low Tide Time	1712
I25	18 Nov 2024	Comments	
I25	26 Nov 2024	Arrive Time	1030
I25	26 Nov 2024	Depart Time	1032
I25	26 Nov 2024	Air Temp (C)	14.8
I25	26 Nov 2024	Visibility (mi)	10
I25	26 Nov 2024	Wind Speed (kts)	7.5
I25	26 Nov 2024	Wind Dir	W
I25	26 Nov 2024	Sea State	Wind Ripples
I25	26 Nov 2024	High Tide Time	600
I25	26 Nov 2024	Low Tide Time	1236
I25	26 Nov 2024	Comments	
I39	04 Nov 2024	Arrive Time	1039
I39	04 Nov 2024	Depart Time	1043

Station	Date	Parameter	Value
I39	04 Nov 2024	Air Temp (C)	16.5
I39	04 Nov 2024	Visibility (mi)	10
I39	04 Nov 2024	Wind Speed (kts)	4
I39	04 Nov 2024	Wind Dir	W
I39	04 Nov 2024	Sea State	Regular Swell
I39	04 Nov 2024	High Tide Time	918
I39	04 Nov 2024	Low Tide Time	1700
I39	04 Nov 2024	Comments	
I39	12 Nov 2024	Arrive Time	1004
I39	12 Nov 2024	Depart Time	1008
I39	12 Nov 2024	Air Temp (C)	16.2
I39	12 Nov 2024	Visibility (mi)	11
I39	12 Nov 2024	Wind Speed (kts)	3.3
I39	12 Nov 2024	Wind Dir	NE
I39	12 Nov 2024	Sea State	Regular Swell
I39	12 Nov 2024	High Tide Time	554
I39	12 Nov 2024	Low Tide Time	6
I39	12 Nov 2024	Comments	
I39	18 Nov 2024	Arrive Time	1027
I39	18 Nov 2024	Depart Time	1037
I39	18 Nov 2024	Air Temp (C)	14.8
I39	18 Nov 2024	Visibility (mi)	10
I39	18 Nov 2024	Wind Speed (kts)	10.6
I39	18 Nov 2024	Wind Dir	S
I39	18 Nov 2024	Sea State	Light Chop
I39	18 Nov 2024	High Tide Time	936
I39	18 Nov 2024	Low Tide Time	1712
I39	18 Nov 2024	Comments	1st cast noisy with bubbles; use 2nd cast
I39	26 Nov 2024	Arrive Time	940
I39	26 Nov 2024	Depart Time	945
I39	26 Nov 2024	Air Temp (C)	14.6
I39	26 Nov 2024	Visibility (mi)	10
I39	26 Nov 2024	Wind Speed (kts)	0.5
I39	26 Nov 2024	Wind Dir	S
I39	26 Nov 2024	Sea State	Calm
I39	26 Nov 2024	High Tide Time	600
I39	26 Nov 2024	Low Tide Time	1236
I39	26 Nov 2024	Comments	
I26	04 Nov 2024	Arrive Time	1139
I26	04 Nov 2024	Depart Time	1143
I26	04 Nov 2024	Air Temp (C)	16.9
I26	04 Nov 2024	Visibility (mi)	10
I26	04 Nov 2024	Wind Speed (kts)	5
I26	04 Nov 2024	Wind Dir	W
I26	04 Nov 2024	Sea State	Regular Swell
I26	04 Nov 2024	High Tide Time	918
I26	04 Nov 2024	Low Tide Time	1700
I26	04 Nov 2024	Comments	Possible Red Tide
I26	12 Nov 2024	Arrive Time	1103
I26	12 Nov 2024	Depart Time	1105
I26	12 Nov 2024	Air Temp (C)	16.3
I26	12 Nov 2024	Visibility (mi)	11
I26	12 Nov 2024	Wind Speed (kts)	8.7
I26	12 Nov 2024	Wind Dir	W
I26	12 Nov 2024	Sea State	Regular Swell
I26	12 Nov 2024	High Tide Time	554

Station	Date	Parameter	Value
I26	12 Nov 2024	Low Tide Time	6
I26	12 Nov 2024	Comments	
I26	18 Nov 2024	Arrive Time	1141
I26	18 Nov 2024	Depart Time	1145
I26	18 Nov 2024	Air Temp (C)	14.9
I26	18 Nov 2024	Visibility (mi)	10
I26	18 Nov 2024	Wind Speed (kts)	12.6
I26	18 Nov 2024	Wind Dir	SE
I26	18 Nov 2024	Sea State	Light Chop
I26	18 Nov 2024	High Tide Time	936
I26	18 Nov 2024	Low Tide Time	1712
I26	18 Nov 2024	Comments	
I26	26 Nov 2024	Arrive Time	1039
I26	26 Nov 2024	Depart Time	1042
I26	26 Nov 2024	Air Temp (C)	14.9
I26	26 Nov 2024	Visibility (mi)	10
I26	26 Nov 2024	Wind Speed (kts)	5.1
I26	26 Nov 2024	Wind Dir	W
I26	26 Nov 2024	Sea State	Wind Ripples
I26	26 Nov 2024	High Tide Time	600
I26	26 Nov 2024	Low Tide Time	1236
I26	26 Nov 2024	Comments	
I32	04 Nov 2024	Arrive Time	1150
I32	04 Nov 2024	Depart Time	1156
I32	04 Nov 2024	Air Temp (C)	16.7
I32	04 Nov 2024	Visibility (mi)	10
I32	04 Nov 2024	Wind Speed (kts)	3.6
I32	04 Nov 2024	Wind Dir	SW
I32	04 Nov 2024	Sea State	Regular Swell
I32	04 Nov 2024	High Tide Time	918
I32	04 Nov 2024	Low Tide Time	1700
I32	04 Nov 2024	Comments	
I32	12 Nov 2024	Arrive Time	1113
I32	12 Nov 2024	Depart Time	1118
I32	12 Nov 2024	Air Temp (C)	16.4
I32	12 Nov 2024	Visibility (mi)	11
I32	12 Nov 2024	Wind Speed (kts)	6
I32	12 Nov 2024	Wind Dir	W
I32	12 Nov 2024	Sea State	Regular Swell
I32	12 Nov 2024	High Tide Time	554
I32	12 Nov 2024	Low Tide Time	6
I32	12 Nov 2024	Comments	Bloom present
I32	18 Nov 2024	Arrive Time	1152
I32	18 Nov 2024	Depart Time	1158
I32	18 Nov 2024	Air Temp (C)	15.1
I32	18 Nov 2024	Visibility (mi)	10
I32	18 Nov 2024	Wind Speed (kts)	13.8
I32	18 Nov 2024	Wind Dir	SE
I32	18 Nov 2024	Sea State	Light Chop
I32	18 Nov 2024	High Tide Time	936
I32	18 Nov 2024	Low Tide Time	1712
I32	18 Nov 2024	Comments	Possible Red Tide
I32	26 Nov 2024	Arrive Time	1050
I32	26 Nov 2024	Depart Time	1053
I32	26 Nov 2024	Air Temp (C)	14.8

Station	Date	Parameter	Value
I32	26 Nov 2024	Visibility (mi)	10
I32	26 Nov 2024	Wind Speed (kts)	3.9
I32	26 Nov 2024	Wind Dir	SW
I32	26 Nov 2024	Sea State	Wind Ripples
I32	26 Nov 2024	High Tide Time	600
I32	26 Nov 2024	Low Tide Time	1236
I32	26 Nov 2024	Comments	flock of birds present; water cloudy/turbid

Comments

date	station	depth	parmcode	comments
04-Nov-2024	I24	11		Non-selective media for pre-PS buffer had a colony, but selective media had none. This likely not affected to the results.
04-Nov-2024	I24	2		Non-selective media for pre-PS buffer had a colony, but selective media had none. This likely not affected to the results.
04-Nov-2024	I24	6		Non-selective media for pre-PS buffer had a colony, but selective media had none. This likely not affected to the results.
04-Nov-2024	I25	2		Non-selective media for pre-PS buffer had a colony, but selective media had none. This likely not affected to the results.
04-Nov-2024	I25	6		Non-selective media for pre-PS buffer had a colony, but selective media had none. This likely not affected to the results.
04-Nov-2024	I25	9		Non-selective media for pre-PS buffer had a colony, but selective media had none. This likely not affected to the results.

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 (s-t)	Chlor (µg/L)
I19	04 Nov 2024	1	13.92	47.48	7.0	33.23	8.0	24.8	0.73
I19	04 Nov 2024	2	13.76	47.13	6.9	33.24	8.0	24.9	0.79
I19	04 Nov 2024	3	13.50	53.26	6.6	33.25	8.0	24.9	0.91
I19	04 Nov 2024	4	13.28	69.66	6.3	33.24	8.0	25.0	1.13
I19	04 Nov 2024	5	13.14	73.38	6.2	33.24	8.0	25.0	1.21
I19	04 Nov 2024	6	13.00	73.86	6.1	33.24	8.0	25.0	1.37
I19	04 Nov 2024	7	12.84	68.73	6.0	33.25	8.0	25.1	1.51
I19	04 Nov 2024	8	12.77	63.02	6.0	33.25	8.0	25.1	1.64
I19	04 Nov 2024	9	12.75	51.36	5.9	33.25	8.0	25.1	1.77
I19	04 Nov 2024	10	12.78	30.91	5.8	33.25	8.0	25.1	1.85
I19	12 Nov 2024	1	16.40	90.06	8.9	33.33	8.3	24.4	0.99
I19	12 Nov 2024	2	16.25	89.65	9.0	33.34	8.3	24.4	0.94
I19	12 Nov 2024	3	16.27	84.73	8.9	33.33	8.3	24.4	1.22
I19	12 Nov 2024	4	16.19	83.14	8.8	33.33	8.2	24.4	1.83
I19	12 Nov 2024	5	16.18	84.36	8.8	33.33	8.2	24.4	2.17
I19	12 Nov 2024	6	16.17	85.40	8.7	33.33	8.2	24.4	2.43
I19	12 Nov 2024	7	16.17	86.21	8.8	33.33	8.2	24.4	2.51
I19	12 Nov 2024	8	16.17	86.59	8.7	33.33	8.2	24.4	2.33
I19	12 Nov 2024	9	16.16	86.64	8.7	33.33	8.2	24.4	2.14
I19	12 Nov 2024	10	16.15	87.18	8.7	33.33	8.2	24.4	1.69
I19	18 Nov 2024	1	14.52	59.41	8.7	33.30	8.2	24.8	9.41
I19	18 Nov 2024	2	14.50	59.10	8.7	33.30	8.2	24.8	12.94
I19	18 Nov 2024	3	14.47	59.36	8.6	33.30	8.2	24.8	14.65
I19	18 Nov 2024	4	14.47	60.20	8.6	33.30	8.2	24.8	14.64
I19	18 Nov 2024	5	14.47	61.04	8.6	33.30	8.2	24.8	14.53
I19	18 Nov 2024	6	14.45	61.63	8.4	33.30	8.2	24.8	13.81
I19	18 Nov 2024	7	14.30	63.04	8.0	33.30	8.2	24.8	12.45
I19	18 Nov 2024	8	14.27	64.11	7.8	33.30	8.1	24.8	12.27
I19	18 Nov 2024	9	14.22	62.16	7.7	33.30	8.1	24.8	12.76
I19	18 Nov 2024	10	14.16	59.18	7.7	33.30	8.1	24.8	12.95
I19	26 Nov 2024	1	13.79	80.05	8.5	33.30	8.2	24.9	1.93
I19	26 Nov 2024	2	13.57	78.47	8.3	33.32	8.2	25.0	2.24
I19	26 Nov 2024	3	13.22	72.59	7.6	33.29	8.1	25.0	4.88
I19	26 Nov 2024	4	13.21	73.66	7.4	33.29	8.1	25.0	6.67
I19	26 Nov 2024	5	13.20	75.06	7.5	33.29	8.1	25.0	6.93
I19	26 Nov 2024	6	13.20	75.76	7.5	33.30	8.1	25.0	6.73
I19	26 Nov 2024	7	13.15	76.68	7.4	33.30	8.1	25.0	6.09
I19	26 Nov 2024	8	13.06	77.44	7.3	33.31	8.0	25.1	5.47
I19	26 Nov 2024	9	12.70	78.54	6.7	33.33	8.0	25.2	3.58
I19	26 Nov 2024	10	12.61	79.74	6.0	33.31	7.9	25.2	1.84
I40	04 Nov 2024	1	14.86	67.39	7.5	33.19	8.1	24.6	0.94
I40	04 Nov 2024	2	14.64	65.59	7.4	33.27	8.1	24.7	0.96
I40	04 Nov 2024	3	13.87	64.51	7.0	33.24	8.0	24.9	1.21
I40	04 Nov 2024	4	13.71	60.71	6.7	33.24	8.0	24.9	1.52
I40	04 Nov 2024	5	13.29	63.02	6.4	33.24	8.0	25.0	1.66
I40	04 Nov 2024	6	13.21	74.94	6.3	33.23	8.0	25.0	1.53
I40	04 Nov 2024	7	13.14	78.61	6.3	33.23	8.0	25.0	1.51
I40	04 Nov 2024	8	13.02	78.06	6.2	33.24	8.0	25.0	1.51
I40	04 Nov 2024	9	12.82	76.76	6.1	33.25	8.0	25.1	1.41
I40	04 Nov 2024	10	12.77	63.65	6.0	33.24	8.0	25.1	1.42

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I40	12 Nov 2024	1	16.46	88.02	9.4	33.30	8.3	24.3	0.62
I40	12 Nov 2024	2	16.37	87.61	9.6	33.34	8.3	24.4	1.90
I40	12 Nov 2024	3	16.22	82.36	9.3	33.34	8.3	24.4	4.73
I40	12 Nov 2024	4	16.10	82.73	9.0	33.33	8.2	24.4	2.77
I40	12 Nov 2024	5	16.05	89.36	8.9	33.33	8.2	24.4	2.04
I40	12 Nov 2024	6	16.00	88.94	8.9	33.33	8.2	24.5	1.78
I40	12 Nov 2024	7	15.96	88.95	9.0	33.32	8.2	24.5	1.50
I40	12 Nov 2024	8	15.91	87.79	8.9	33.33	8.2	24.5	1.49
I40	12 Nov 2024	9	15.78	84.01	8.8	33.32	8.2	24.5	1.61
I40	12 Nov 2024	10	15.79	79.28	8.8	33.32	8.2	24.5	1.64
I40	18 Nov 2024	1	14.41	70.72	8.8	33.14	8.2	24.7	4.59
I40	18 Nov 2024	2	14.41	71.83	8.8	33.31	8.2	24.8	4.62
I40	18 Nov 2024	3	14.41	72.34	8.8	33.31	8.2	24.8	4.85
I40	18 Nov 2024	4	14.37	72.54	8.7	33.31	8.2	24.8	6.47
I40	18 Nov 2024	5	14.37	72.93	8.6	33.31	8.2	24.8	7.74
I40	18 Nov 2024	6	14.25	74.63	8.3	33.31	8.2	24.8	7.40
I40	18 Nov 2024	7	14.16	77.84	7.9	33.31	8.1	24.8	4.78
I40	18 Nov 2024	8	14.14	78.55	7.8	33.31	8.1	24.9	3.79
I40	18 Nov 2024	9	13.98	76.91	7.5	33.30	8.1	24.9	3.15
I40	18 Nov 2024	10	13.84	63.94	7.1	33.30	8.1	24.9	2.48
I40	26 Nov 2024	1	13.75	77.95	8.2	33.27	8.1	24.9	2.10
I40	26 Nov 2024	2	13.68	77.65	8.1	33.29	8.1	24.9	2.39
I40	26 Nov 2024	3	13.38	75.39	7.8	33.28	8.1	25.0	3.67
I40	26 Nov 2024	4	13.04	70.63	7.2	33.29	8.0	25.1	3.17
I40	26 Nov 2024	5	12.98	70.41	6.7	33.29	8.0	25.1	2.02
I40	26 Nov 2024	6	12.77	71.90	6.2	33.30	7.9	25.1	1.47
I40	26 Nov 2024	7	12.66	74.05	6.0	33.30	7.9	25.1	1.25
I40	26 Nov 2024	8	12.62	76.54	5.8	33.31	7.9	25.2	1.14
I40	26 Nov 2024	9	12.60	76.09	5.6	33.31	7.9	25.2	0.96
I40	26 Nov 2024	10	12.58	67.88	5.5	33.32	7.9	25.2	0.91
I24	04 Nov 2024	1	15.03	69.52	7.7	33.24	8.1	24.6	0.88
I24	04 Nov 2024	2	14.95	69.58	7.7	33.25	8.1	24.6	0.96
I24	04 Nov 2024	3	14.66	67.67	7.6	33.27	8.1	24.7	1.44
I24	04 Nov 2024	4	14.15	61.94	7.5	33.26	8.1	24.8	2.65
I24	04 Nov 2024	5	13.95	57.50	7.2	33.24	8.0	24.8	2.38
I24	04 Nov 2024	6	13.72	61.46	6.8	33.25	8.0	24.9	2.09
I24	04 Nov 2024	7	13.17	74.90	6.5	33.24	8.0	25.0	2.58
I24	04 Nov 2024	8	12.91	83.41	6.2	33.25	8.0	25.1	2.23
I24	04 Nov 2024	9	12.83	82.38	5.9	33.24	8.0	25.1	1.34
I24	04 Nov 2024	10	12.79	74.27	5.8	33.24	8.0	25.1	1.00
I24	04 Nov 2024	11	12.81	71.89	5.8	33.24	8.0	25.1	0.95
I24	12 Nov 2024	1	16.62	96.43	8.7	33.34	8.2	24.3	0.31
I24	12 Nov 2024	2	16.54	96.34	8.7	33.35	8.2	24.4	0.33
I24	12 Nov 2024	3	16.36	96.38	8.8	33.34	8.2	24.4	0.48
I24	12 Nov 2024	4	16.14	94.59	8.9	33.34	8.3	24.4	1.06
I24	12 Nov 2024	5	15.77	89.01	9.0	33.33	8.2	24.5	1.43
I24	12 Nov 2024	6	15.53	91.58	8.9	33.31	8.2	24.6	1.14
I24	12 Nov 2024	7	15.42	92.26	8.8	33.31	8.2	24.6	1.09
I24	12 Nov 2024	8	15.37	90.66	8.7	33.30	8.2	24.6	1.15
I24	12 Nov 2024	9	15.35	86.47	8.7	33.30	8.2	24.6	1.12
I24	18 Nov 2024	1	14.41	78.93	9.1	33.31	8.2	24.8	3.02
I24	18 Nov 2024	2	14.41	79.13	9.1	33.31	8.2	24.8	3.07
I24	18 Nov 2024	3	14.39	79.10	9.1	33.31	8.2	24.8	4.23
I24	18 Nov 2024	4	14.35	78.72	9.0	33.31	8.2	24.8	6.84
I24	18 Nov 2024	5	14.31	77.50	8.9	33.30	8.2	24.8	8.14
I24	18 Nov 2024	6	14.22	76.29	8.4	33.30	8.2	24.8	9.10

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I24	18 Nov 2024	7	13.63	74.17	7.3	33.33	8.1	25.0	6.47
I24	18 Nov 2024	8	13.27	74.72	6.3	33.30	8.0	25.0	2.70
I24	18 Nov 2024	9	13.35	76.89	6.2	33.29	8.0	25.0	1.42
I24	18 Nov 2024	10	13.04	79.45	6.3	33.31	8.0	25.1	1.32
I24	26 Nov 2024	1	13.78	87.17	7.8	33.30	8.1	24.9	0.68
I24	26 Nov 2024	2	13.36	87.07	7.4	33.32	8.1	25.0	0.79
I24	26 Nov 2024	3	13.01	88.50	7.0	33.30	8.0	25.1	0.82
I24	26 Nov 2024	4	12.87	90.05	6.8	33.29	8.0	25.1	0.85
I24	26 Nov 2024	5	12.81	91.29	6.7	33.29	8.0	25.1	0.73
I24	26 Nov 2024	6	12.74	92.10	6.6	33.28	8.0	25.1	0.83
I24	26 Nov 2024	7	12.70	90.89	6.3	33.30	8.0	25.1	0.93
I24	26 Nov 2024	8	12.59	86.63	5.9	33.31	7.9	25.2	0.86
I24	26 Nov 2024	9	12.54	83.25	5.7	33.31	7.9	25.2	0.82
I25	04 Nov 2024	1	15.79	77.37	8.6	33.26	8.2	24.5	0.71
I25	04 Nov 2024	2	15.63	77.24	8.7	33.27	8.2	24.5	1.12
I25	04 Nov 2024	3	15.22	73.71	9.3	33.26	8.2	24.6	10.84
I25	04 Nov 2024	4	15.02	51.47	9.3	33.25	8.2	24.6	27.89
I25	04 Nov 2024	5	14.89	47.96	9.1	33.24	8.2	24.6	28.84
I25	04 Nov 2024	6	14.50	53.23	8.3	33.26	8.2	24.7	23.26
I25	04 Nov 2024	7	13.61	67.62	7.1	33.27	8.1	24.9	10.40
I25	04 Nov 2024	8	13.10	82.77	6.5	33.25	8.0	25.0	4.43
I25	04 Nov 2024	9	12.78	85.95	6.3	33.24	8.0	25.1	1.89
I25	12 Nov 2024	1	16.51	93.79	8.8	33.34	8.2	24.4	0.45
I25	12 Nov 2024	2	16.53	93.94	8.7	33.34	8.2	24.4	0.42
I25	12 Nov 2024	3	16.49	95.20	8.7	33.34	8.2	24.4	0.40
I25	12 Nov 2024	4	16.16	95.00	8.8	33.36	8.2	24.4	0.64
I25	12 Nov 2024	5	15.62	90.24	8.9	33.33	8.2	24.6	0.98
I25	12 Nov 2024	6	15.52	88.01	8.8	33.31	8.2	24.6	0.99
I25	12 Nov 2024	7	15.49	87.00	8.7	33.31	8.2	24.6	1.03
I25	12 Nov 2024	8	15.46	85.80	8.6	33.30	8.2	24.6	1.03
I25	18 Nov 2024	1	14.35	78.64	8.9	33.30	8.2	24.8	2.63
I25	18 Nov 2024	2	14.35	78.67	8.9	33.30	8.2	24.8	2.74
I25	18 Nov 2024	3	14.32	78.34	8.9	33.30	8.2	24.8	4.25
I25	18 Nov 2024	4	14.29	76.03	8.9	33.30	8.2	24.8	7.15
I25	18 Nov 2024	5	14.25	74.81	8.8	33.30	8.2	24.8	8.66
I25	18 Nov 2024	6	14.21	74.04	8.5	33.30	8.2	24.8	9.13
I25	18 Nov 2024	7	13.81	73.00	7.8	33.31	8.1	24.9	7.99
I25	18 Nov 2024	8	13.62	74.16	7.2	33.30	8.1	25.0	5.95
I25	18 Nov 2024	9	13.23	81.04	6.6	33.31	8.0	25.0	3.72
I25	26 Nov 2024	1	13.85	83.90	7.7	33.27	8.1	24.9	0.40
I25	26 Nov 2024	2	13.82	83.72	7.6	33.27	8.1	24.9	0.38
I25	26 Nov 2024	3	13.64	82.62	7.6	33.31	8.1	25.0	0.55
I25	26 Nov 2024	4	13.61	81.64	7.5	33.30	8.1	25.0	0.89
I25	26 Nov 2024	5	13.56	83.94	7.4	33.31	8.1	25.0	1.24
I25	26 Nov 2024	6	13.27	85.76	7.2	33.34	8.1	25.0	1.25
I25	26 Nov 2024	7	12.91	88.56	7.0	33.31	8.1	25.1	1.17
I25	26 Nov 2024	8	12.65	92.52	6.7	33.30	8.0	25.1	1.01
I25	26 Nov 2024	9	12.55	93.75	6.3	33.30	8.0	25.2	0.92
I39	04 Nov 2024	1	16.06	86.97	8.7	33.27	8.2	24.4	0.78
I39	04 Nov 2024	2	16.05	87.06	8.7	33.27	8.2	24.4	0.80
I39	04 Nov 2024	3	16.04	86.97	8.7	33.27	8.2	24.4	0.88
I39	04 Nov 2024	4	15.97	87.03	8.8	33.27	8.2	24.4	1.35
I39	04 Nov 2024	5	15.95	86.30	8.8	33.27	8.2	24.4	2.03
I39	04 Nov 2024	6	15.92	85.05	8.7	33.27	8.2	24.4	2.52
I39	04 Nov 2024	7	15.87	85.47	8.5	33.27	8.2	24.4	2.42

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I39	04 Nov 2024	8	15.55	86.76	8.1	33.28	8.2	24.5	1.99
I39	04 Nov 2024	9	14.52	89.84	7.7	33.28	8.1	24.7	1.72
I39	04 Nov 2024	10	14.66	92.82	7.5	33.24	8.1	24.7	1.65
I39	04 Nov 2024	11	13.94	93.24	7.3	33.26	8.1	24.9	1.73
I39	04 Nov 2024	12	13.82	93.40	7.1	33.25	8.1	24.9	1.64
I39	04 Nov 2024	13	13.76	93.65	7.0	33.24	8.1	24.9	1.62
I39	04 Nov 2024	14	13.42	93.80	6.7	33.28	8.1	25.0	1.51
I39	04 Nov 2024	15	12.46	92.25	6.4	33.27	8.0	25.2	1.20
I39	04 Nov 2024	16	12.38	86.57	6.2	33.26	8.0	25.2	1.01
I39	04 Nov 2024	17	12.29	83.86	6.1	33.27	8.0	25.2	0.93
I39	04 Nov 2024	18	12.19	83.63	6.0	33.28	8.0	25.2	0.92
I39	12 Nov 2024	1	16.68	92.81	8.8	33.35	8.2	24.3	0.98
I39	12 Nov 2024	2	16.57	92.73	8.8	33.36	8.2	24.4	0.95
I39	12 Nov 2024	3	16.50	91.69	9.0	33.35	8.3	24.4	1.67
I39	12 Nov 2024	4	16.48	86.24	9.0	33.35	8.3	24.4	3.59
I39	12 Nov 2024	5	16.42	85.83	8.9	33.35	8.3	24.4	5.00
I39	12 Nov 2024	6	16.40	89.34	8.8	33.34	8.2	24.4	5.25
I39	12 Nov 2024	7	16.38	90.76	8.7	33.34	8.2	24.4	4.42
I39	12 Nov 2024	8	16.34	91.90	8.6	33.34	8.2	24.4	3.94
I39	12 Nov 2024	9	16.17	93.07	8.5	33.34	8.2	24.4	3.14
I39	12 Nov 2024	10	16.01	93.12	8.4	33.34	8.2	24.5	2.82
I39	12 Nov 2024	11	15.47	91.94	8.3	33.32	8.2	24.6	2.86
I39	12 Nov 2024	12	15.33	91.31	8.3	33.30	8.2	24.6	2.55
I39	12 Nov 2024	13	15.26	91.38	8.2	33.31	8.2	24.6	2.28
I39	12 Nov 2024	14	15.13	91.17	8.2	33.30	8.2	24.6	1.86
I39	12 Nov 2024	15	15.10	91.19	8.2	33.30	8.2	24.6	1.62
I39	12 Nov 2024	16	15.06	91.01	8.1	33.29	8.2	24.6	1.49
I39	12 Nov 2024	17	14.93	91.07	8.0	33.30	8.2	24.7	1.31
I39	12 Nov 2024	18	14.38	90.18	8.0	33.30	8.1	24.8	0.92
I39	18 Nov 2024	1	14.38	85.84	8.9	33.32	8.2	24.8	1.83
I39	18 Nov 2024	2	14.38	86.89	9.0	33.31	8.2	24.8	2.00
I39	18 Nov 2024	3	14.39	87.09	9.0	33.31	8.2	24.8	2.01
I39	18 Nov 2024	4	14.38	87.16	9.0	33.32	8.2	24.8	2.29
I39	18 Nov 2024	5	14.37	86.93	8.9	33.32	8.2	24.8	2.69
I39	18 Nov 2024	6	14.37	86.91	8.9	33.32	8.2	24.8	3.25
I39	18 Nov 2024	7	14.36	86.81	8.9	33.32	8.2	24.8	3.41
I39	18 Nov 2024	8	14.32	87.77	8.8	33.31	8.2	24.8	3.73
I39	18 Nov 2024	9	14.30	89.01	8.8	33.31	8.2	24.8	3.71
I39	18 Nov 2024	10	14.26	89.70	8.7	33.31	8.2	24.8	3.25
I39	18 Nov 2024	11	14.22	90.86	8.6	33.31	8.2	24.8	2.55
I39	18 Nov 2024	12	14.15	91.80	8.3	33.31	8.2	24.9	2.03
I39	18 Nov 2024	13	13.86	92.42	7.9	33.31	8.2	24.9	1.67
I39	18 Nov 2024	14	13.42	95.32	7.4	33.30	8.1	25.0	1.18
I39	18 Nov 2024	15	13.13	97.07	7.0	33.30	8.0	25.0	0.76
I39	18 Nov 2024	16	12.82	96.61	6.6	33.31	8.0	25.1	0.63
I39	18 Nov 2024	17	12.51	94.40	6.3	33.31	8.0	25.2	0.69
I39	18 Nov 2024	18	12.39	92.01	6.1	33.33	8.0	25.2	0.81
I39	26 Nov 2024	1	13.98	90.77	8.4	33.31	8.2	24.9	0.76
I39	26 Nov 2024	2	13.94	90.20	8.4	33.31	8.2	24.9	0.86
I39	26 Nov 2024	3	13.90	89.01	8.4	33.31	8.2	24.9	1.16
I39	26 Nov 2024	4	13.89	88.41	8.4	33.31	8.2	24.9	1.56
I39	26 Nov 2024	5	13.88	87.76	8.4	33.31	8.2	24.9	1.86
I39	26 Nov 2024	6	13.88	87.71	8.4	33.31	8.2	24.9	2.18
I39	26 Nov 2024	7	13.87	87.43	8.4	33.31	8.2	24.9	2.51
I39	26 Nov 2024	8	13.85	87.36	8.3	33.31	8.2	24.9	2.57
I39	26 Nov 2024	9	13.85	88.21	8.2	33.31	8.2	24.9	2.33
I39	26 Nov 2024	10	13.67	89.27	8.0	33.32	8.2	25.0	1.73
I39	26 Nov 2024	11	13.20	91.24	7.4	33.30	8.1	25.0	1.39

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I39	26 Nov 2024	12	12.60	93.46	6.9	33.30	8.0	25.2	1.26
I39	26 Nov 2024	13	12.45	94.85	6.6	33.28	8.0	25.2	1.14
I39	26 Nov 2024	14	12.43	95.47	6.4	33.28	8.0	25.2	1.11
I39	26 Nov 2024	15	12.39	95.44	6.3	33.29	8.0	25.2	1.00
I39	26 Nov 2024	16	12.37	95.42	6.2	33.29	8.0	25.2	0.90
I39	26 Nov 2024	17	12.33	95.08	6.0	33.30	8.0	25.2	0.81
I39	26 Nov 2024	18	12.21	93.88	5.8	33.33	7.9	25.2	0.73
I26	04 Nov 2024	1	15.82	55.46	9.6	33.25	8.2	24.4	7.16
I26	04 Nov 2024	2	15.84	57.48	9.5	33.25	8.2	24.4	5.87
I26	04 Nov 2024	3	15.61	54.89	9.5	33.28	8.2	24.5	6.96
I26	04 Nov 2024	4	15.25	38.32	9.2	33.26	8.2	24.6	16.74
I26	04 Nov 2024	5	15.00	46.80	8.4	33.26	8.2	24.6	17.02
I26	04 Nov 2024	6	14.26	59.92	7.6	33.27	8.1	24.8	13.22
I26	04 Nov 2024	7	13.31	74.98	7.0	33.29	8.1	25.0	8.64
I26	04 Nov 2024	8	12.80	87.27	6.6	33.25	8.0	25.1	4.69
I26	04 Nov 2024	9	12.77	88.88	6.4	33.24	8.0	25.1	2.20
I26	12 Nov 2024	1	16.63	92.93	8.8	33.33	8.3	24.3	0.31
I26	12 Nov 2024	2	16.60	90.01	8.8	33.33	8.3	24.3	0.32
I26	12 Nov 2024	3	16.33	92.63	9.1	33.34	8.3	24.4	0.50
I26	12 Nov 2024	4	16.01	83.96	9.1	33.34	8.3	24.5	1.47
I26	12 Nov 2024	5	15.72	81.25	8.8	33.31	8.2	24.5	2.09
I26	12 Nov 2024	6	15.73	88.53	8.8	33.32	8.2	24.5	2.07
I26	12 Nov 2024	7	15.66	88.52	8.7	33.31	8.2	24.5	1.53
I26	12 Nov 2024	8	15.62	86.65	8.6	33.31	8.2	24.5	1.30
I26	12 Nov 2024	9	15.62	84.97	8.6	33.31	8.2	24.5	1.18
I26	18 Nov 2024	1	13.92	65.69	7.6	33.28	8.1	24.9	2.23
I26	18 Nov 2024	2	13.92	65.41	7.6	33.28	8.1	24.9	2.27
I26	18 Nov 2024	3	13.91	65.21	7.6	33.28	8.1	24.9	2.50
I26	18 Nov 2024	4	13.91	65.27	7.6	33.28	8.1	24.9	3.13
I26	18 Nov 2024	5	13.83	65.22	7.4	33.29	8.1	24.9	3.42
I26	18 Nov 2024	6	13.79	65.20	7.3	33.28	8.1	24.9	3.02
I26	18 Nov 2024	7	13.77	65.59	7.2	33.28	8.1	24.9	2.37
I26	18 Nov 2024	8	13.68	66.83	7.0	33.29	8.0	24.9	1.84
I26	18 Nov 2024	9	13.29	70.78	6.5	33.31	8.0	25.0	1.03
I26	26 Nov 2024	1	14.12	83.74	7.9	33.32	8.1	24.9	0.32
I26	26 Nov 2024	2	14.09	83.63	7.8	33.32	8.1	24.9	0.33
I26	26 Nov 2024	3	13.97	82.19	7.8	33.32	8.1	24.9	0.42
I26	26 Nov 2024	4	13.81	81.26	7.6	33.32	8.1	24.9	0.54
I26	26 Nov 2024	5	13.53	82.18	7.2	33.33	8.1	25.0	0.70
I26	26 Nov 2024	6	12.94	85.42	6.5	33.35	8.0	25.1	0.75
I26	26 Nov 2024	7	12.62	89.54	6.1	33.32	8.0	25.2	0.75
I26	26 Nov 2024	8	12.56	90.37	6.0	33.30	8.0	25.2	0.72
I26	26 Nov 2024	9	12.55	89.74	6.0	33.30	8.0	25.2	0.72
I32	04 Nov 2024	1	14.90	64.43	7.7	33.25	8.1	24.6	1.24
I32	04 Nov 2024	2	14.67	64.70	7.6	33.25	8.1	24.7	1.30
I32	04 Nov 2024	3	14.42	64.22	7.4	33.25	8.1	24.7	1.88
I32	04 Nov 2024	4	14.03	58.31	7.3	33.26	8.1	24.8	4.85
I32	04 Nov 2024	5	13.66	49.60	7.0	33.24	8.1	24.9	7.97
I32	04 Nov 2024	6	13.19	56.27	6.5	33.25	8.0	25.0	6.04
I32	04 Nov 2024	7	13.01	62.82	6.3	33.24	8.0	25.0	3.06
I32	04 Nov 2024	8	12.88	65.39	6.2	33.24	8.0	25.1	2.16
I32	04 Nov 2024	9	12.83	64.64	6.1	33.24	8.0	25.1	1.76
I32	04 Nov 2024	10	12.84	55.43	6.1	33.24	8.0	25.1	1.33
I32	12 Nov 2024	1	16.28	56.85	11.0	33.27	8.4	24.4	10.25
I32	12 Nov 2024	2	16.19	56.24	11.0	33.27	8.4	24.4	14.24

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I32	12 Nov 2024	3	16.14	53.44	10.6	33.27	8.4	24.4	21.12
I32	12 Nov 2024	4	15.82	50.48	9.5	33.26	8.3	24.4	24.29
I32	12 Nov 2024	5	15.80	58.60	9.1	33.26	8.3	24.4	20.40
I32	12 Nov 2024	6	15.80	60.52	9.1	33.26	8.3	24.5	17.08
I32	12 Nov 2024	7	15.82	60.70	9.0	33.26	8.3	24.5	15.83
I32	12 Nov 2024	8	15.73	59.64	8.8	33.27	8.3	24.5	11.18
I32	12 Nov 2024	9	15.68	45.03	8.5	33.27	8.3	24.5	5.76
I32	18 Nov 2024	1	14.32	53.29	9.1	33.32	8.2	24.8	16.56
I32	18 Nov 2024	2	14.32	53.64	9.2	33.32	8.2	24.8	14.66
I32	18 Nov 2024	3	14.31	53.35	9.1	33.32	8.2	24.8	17.60
I32	18 Nov 2024	4	14.31	53.37	9.1	33.32	8.2	24.8	18.36
I32	18 Nov 2024	5	14.31	53.61	9.1	33.32	8.2	24.8	18.55
I32	18 Nov 2024	6	14.25	52.74	8.9	33.32	8.2	24.8	19.31
I32	18 Nov 2024	7	14.20	52.38	8.6	33.32	8.2	24.8	21.07
I32	18 Nov 2024	8	14.11	56.71	8.2	33.32	8.2	24.9	18.87
I32	18 Nov 2024	9	14.07	60.90	7.9	33.32	8.1	24.9	15.44
I32	18 Nov 2024	10	14.01	62.84	7.7	33.32	8.1	24.9	12.90
I32	26 Nov 2024	1	13.97	68.08	7.0	33.32	8.1	24.9	1.32
I32	26 Nov 2024	2	13.94	67.82	7.0	33.32	8.1	24.9	1.32
I32	26 Nov 2024	3	13.90	66.71	6.9	33.32	8.1	24.9	1.34
I32	26 Nov 2024	4	13.88	66.98	6.9	33.32	8.0	24.9	1.21
I32	26 Nov 2024	5	13.78	67.16	6.7	33.33	8.0	24.9	1.32
I32	26 Nov 2024	6	13.40	63.68	6.8	33.33	8.0	25.0	1.47
I32	26 Nov 2024	7	13.28	64.47	6.7	33.32	8.0	25.0	1.45
I32	26 Nov 2024	8	13.20	70.20	6.5	33.32	8.0	25.0	1.46
I32	26 Nov 2024	9	12.80	72.61	6.1	33.33	8.0	25.1	1.39
I32	26 Nov 2024	10	12.55	67.80	5.8	33.32	7.9	25.2	1.34

NA = not available

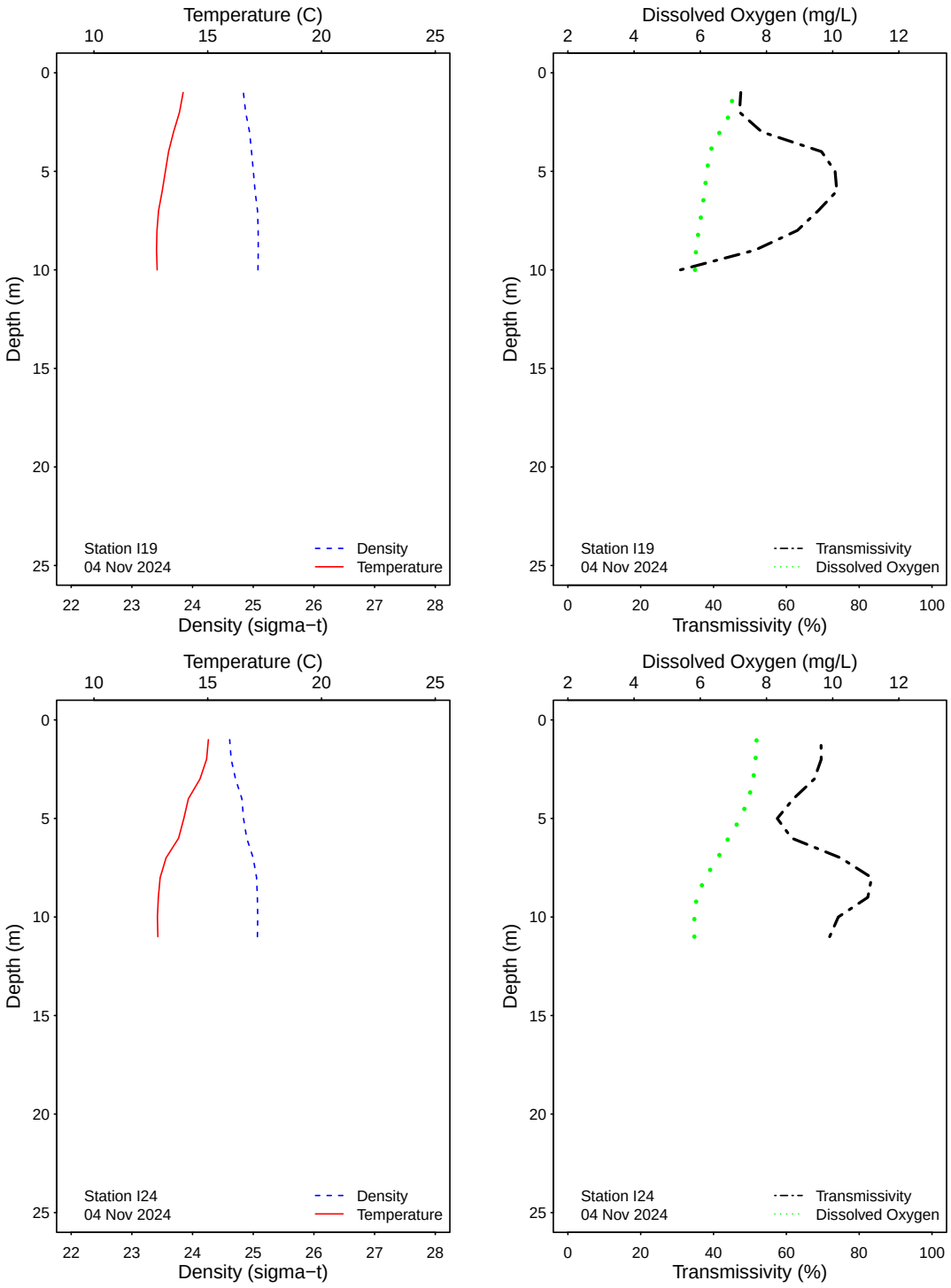

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

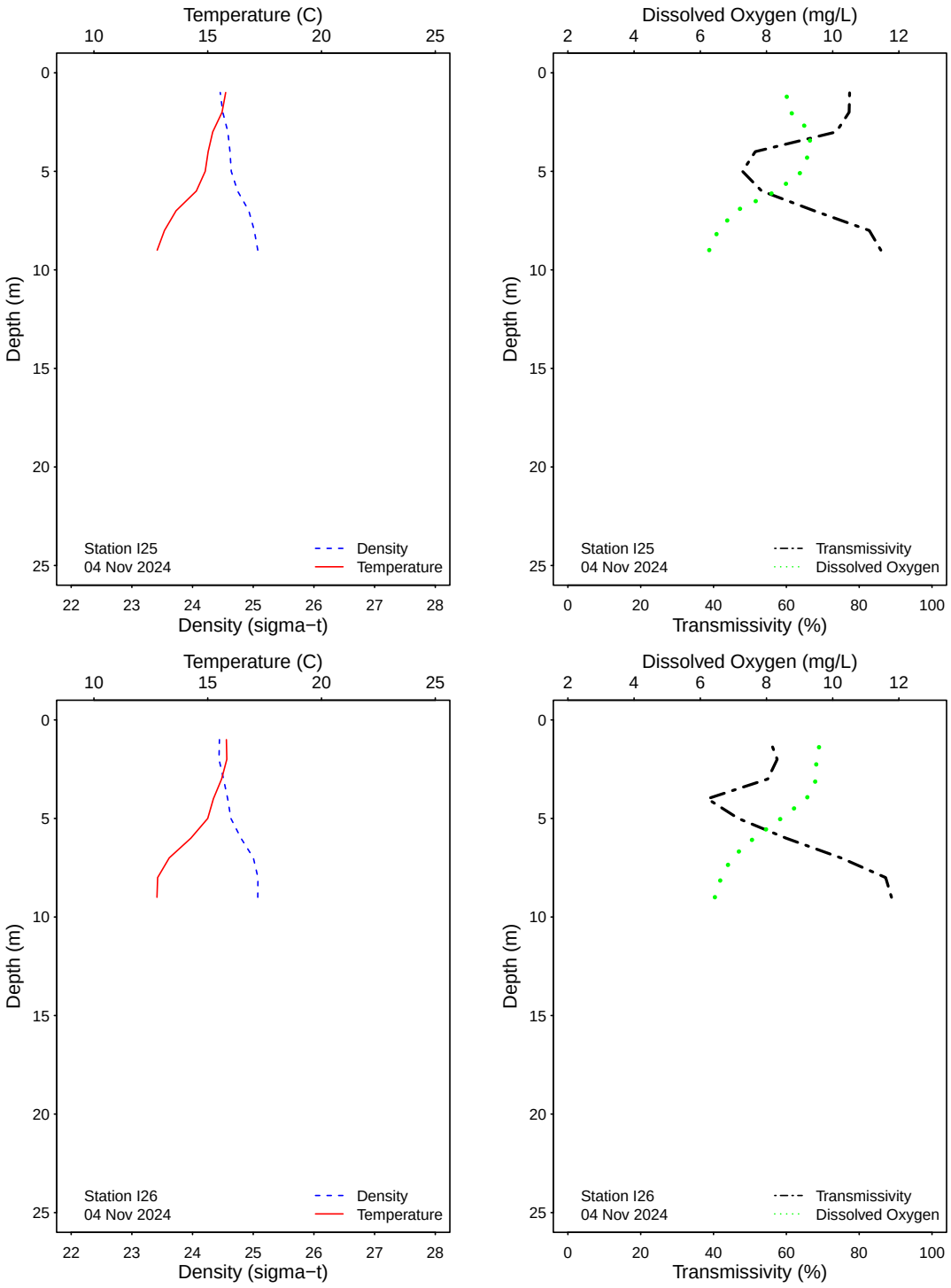

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

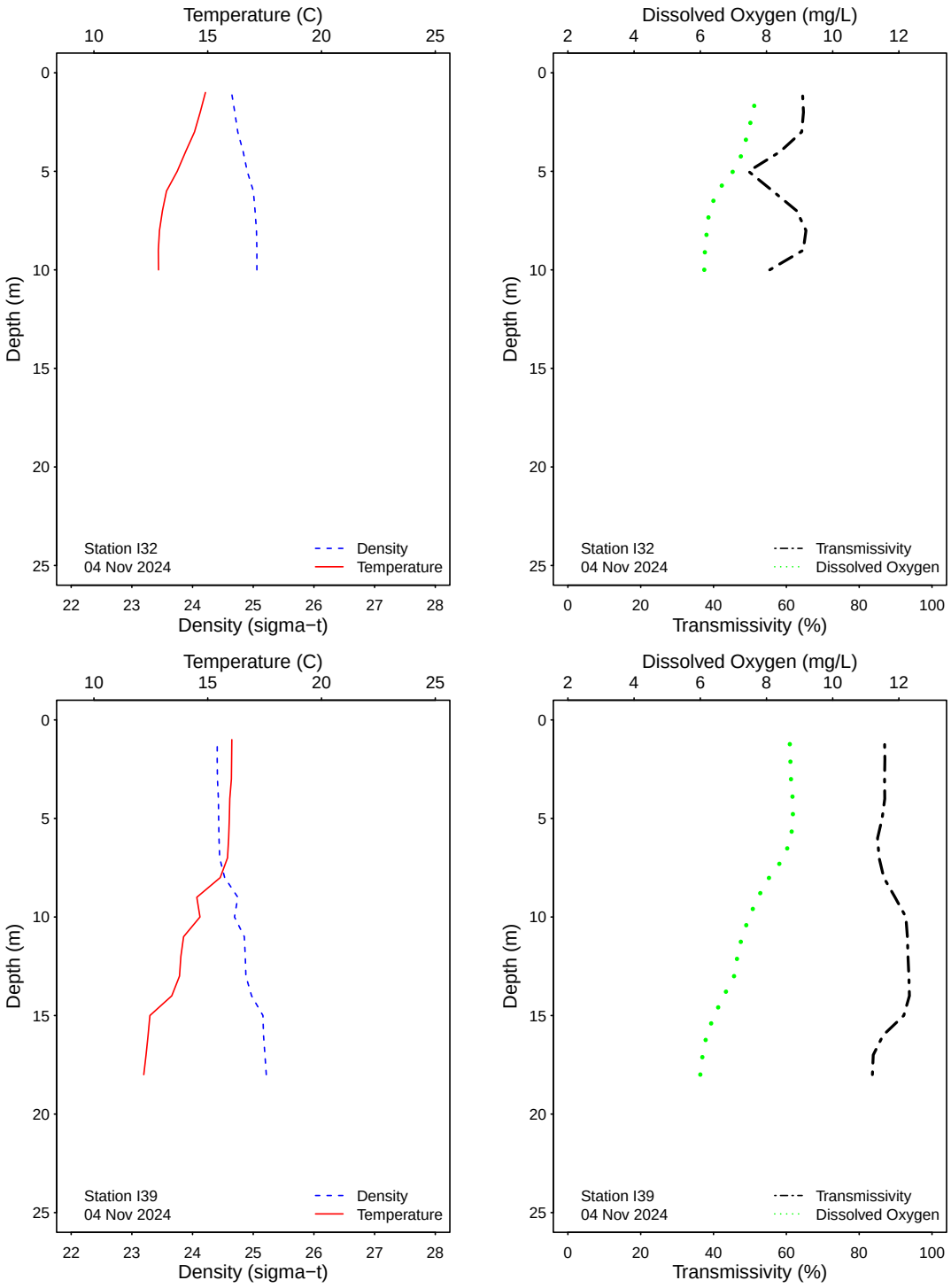

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

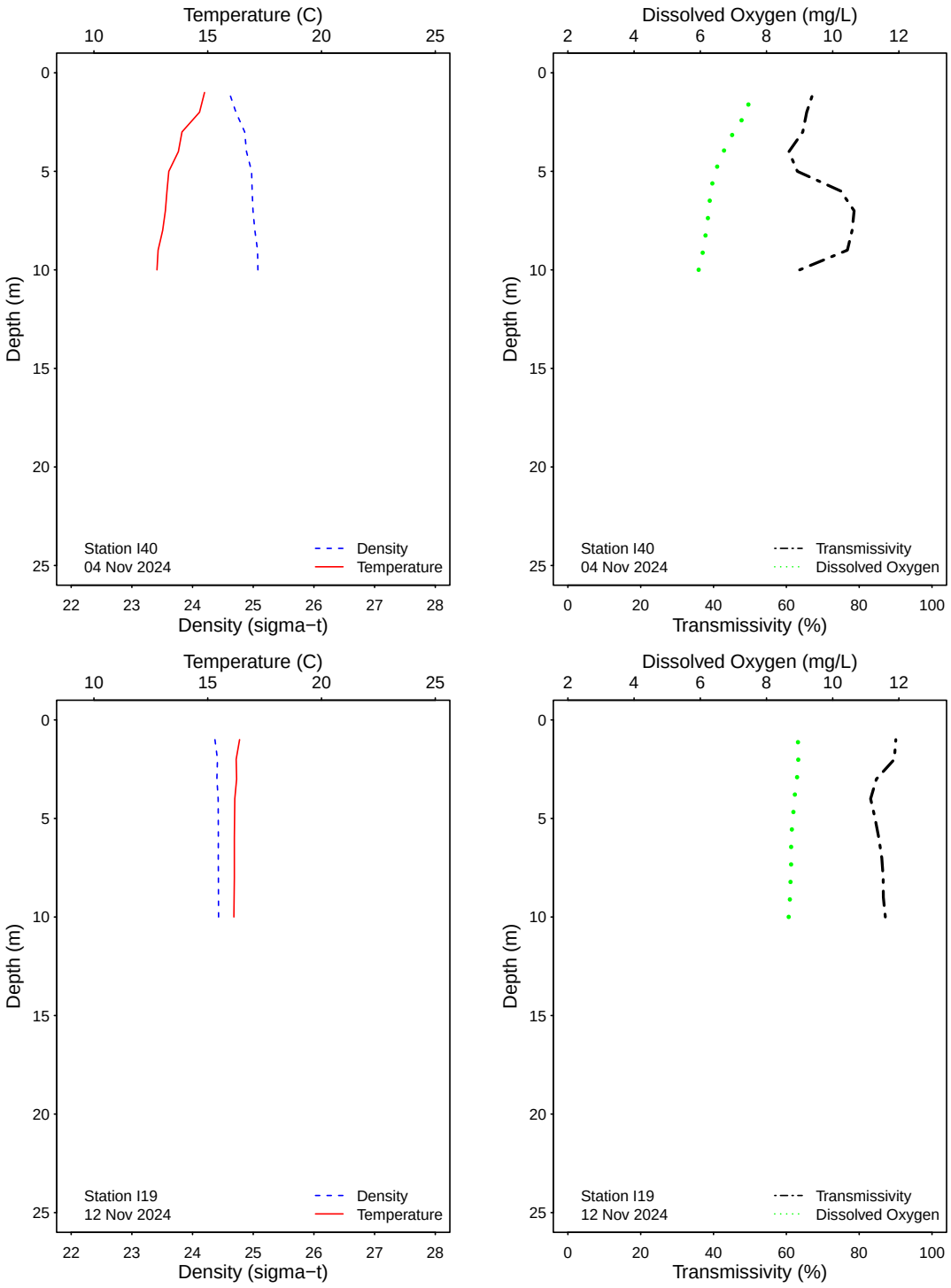

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

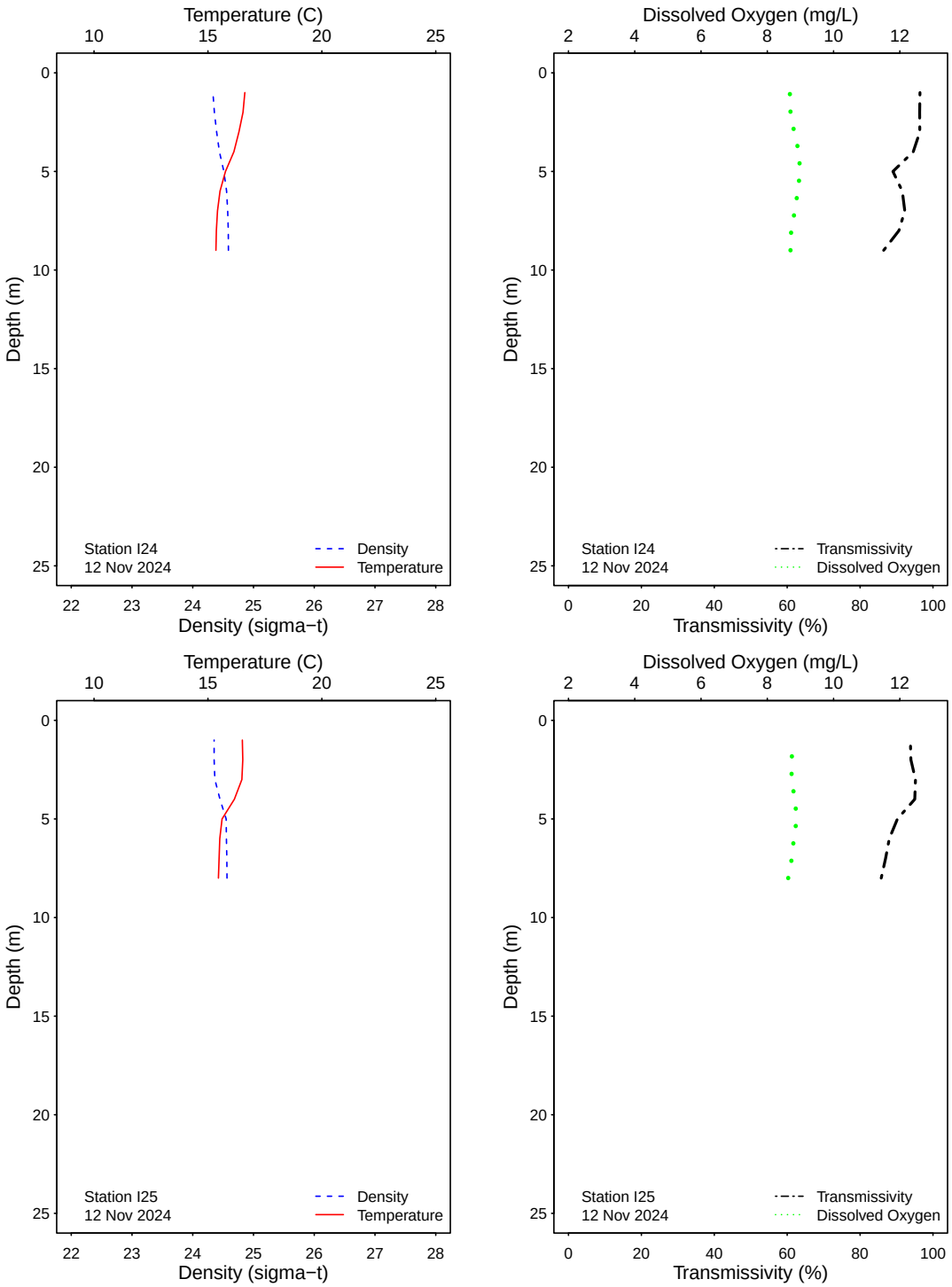

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

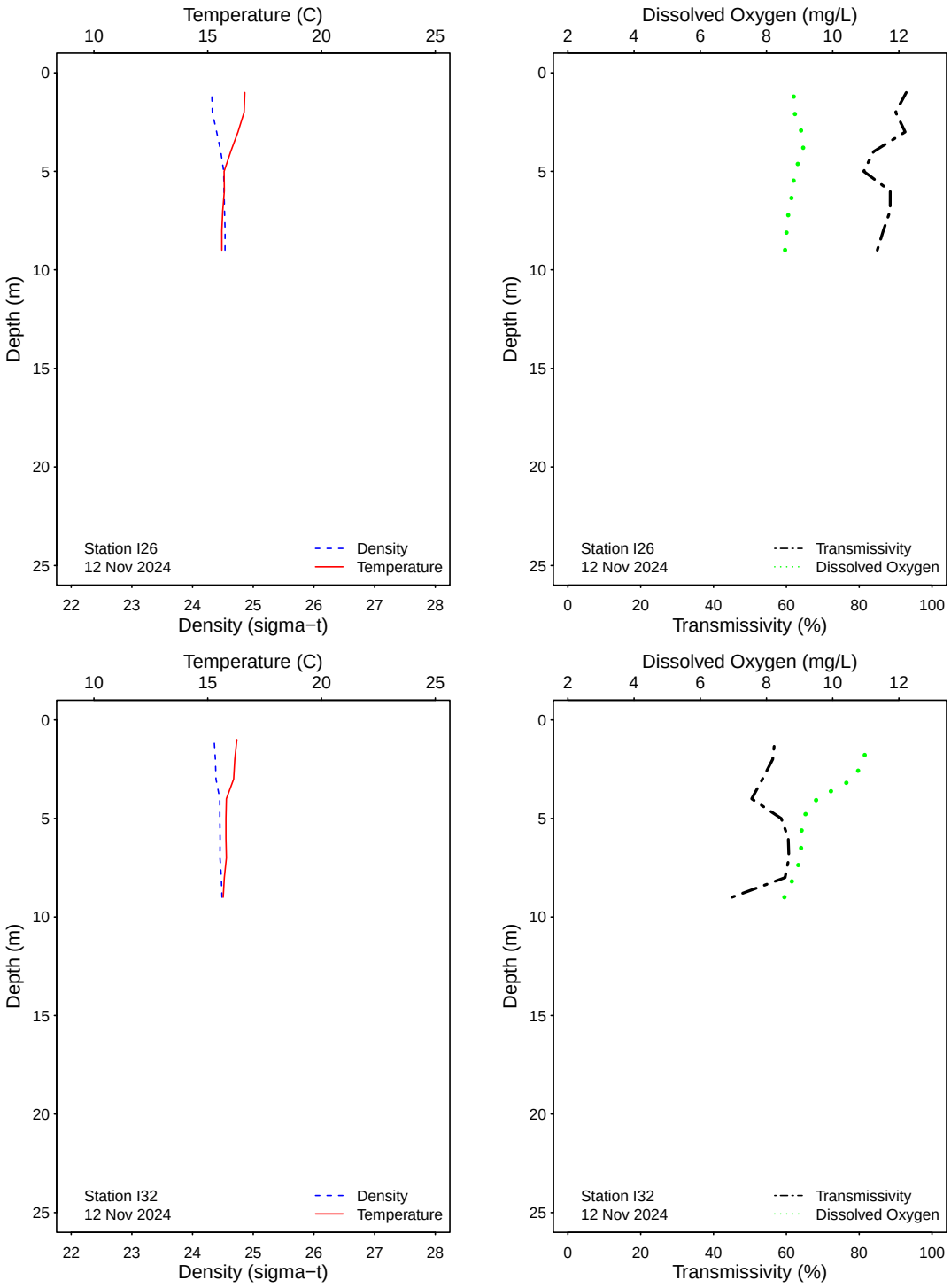

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

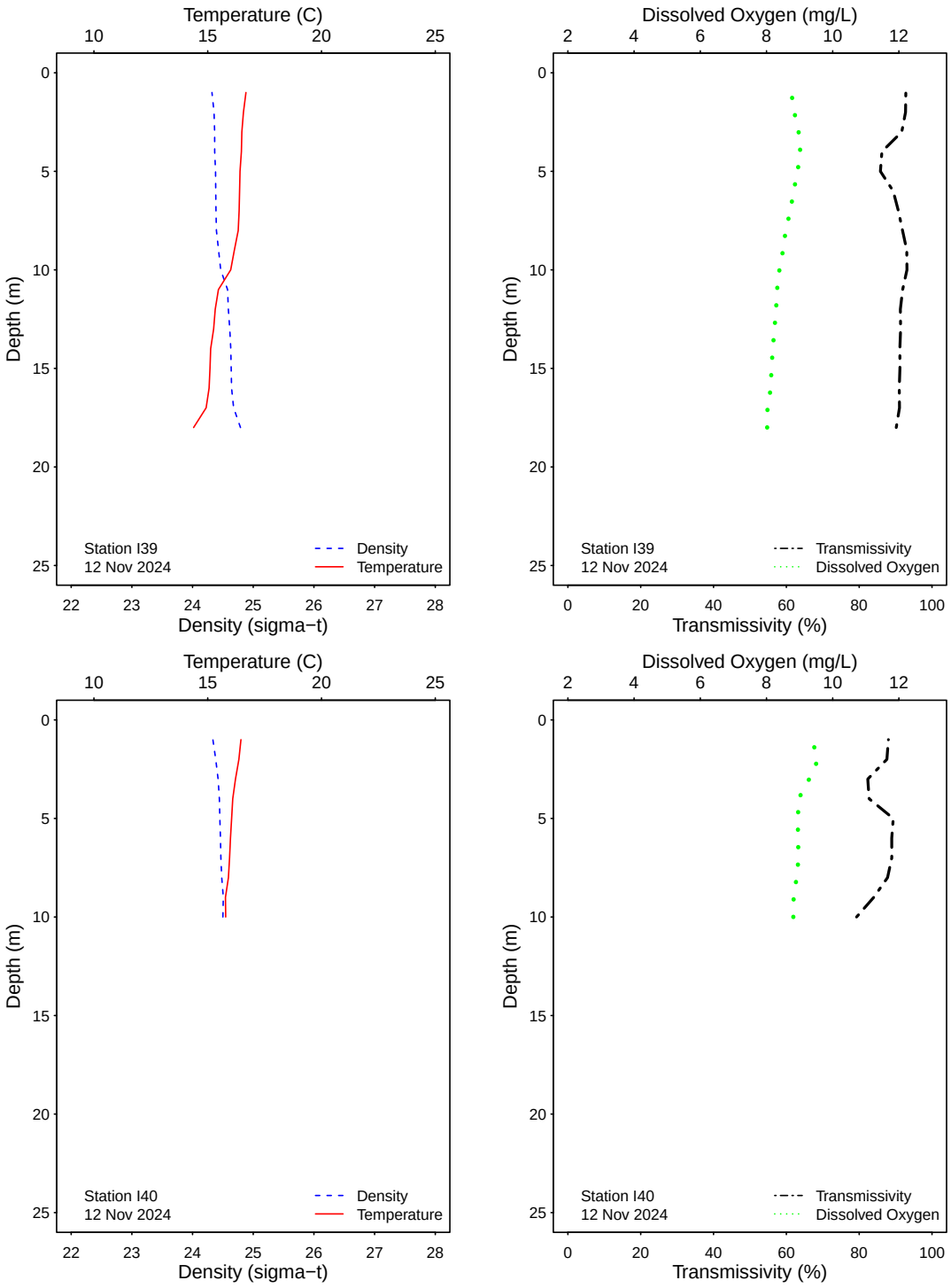

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

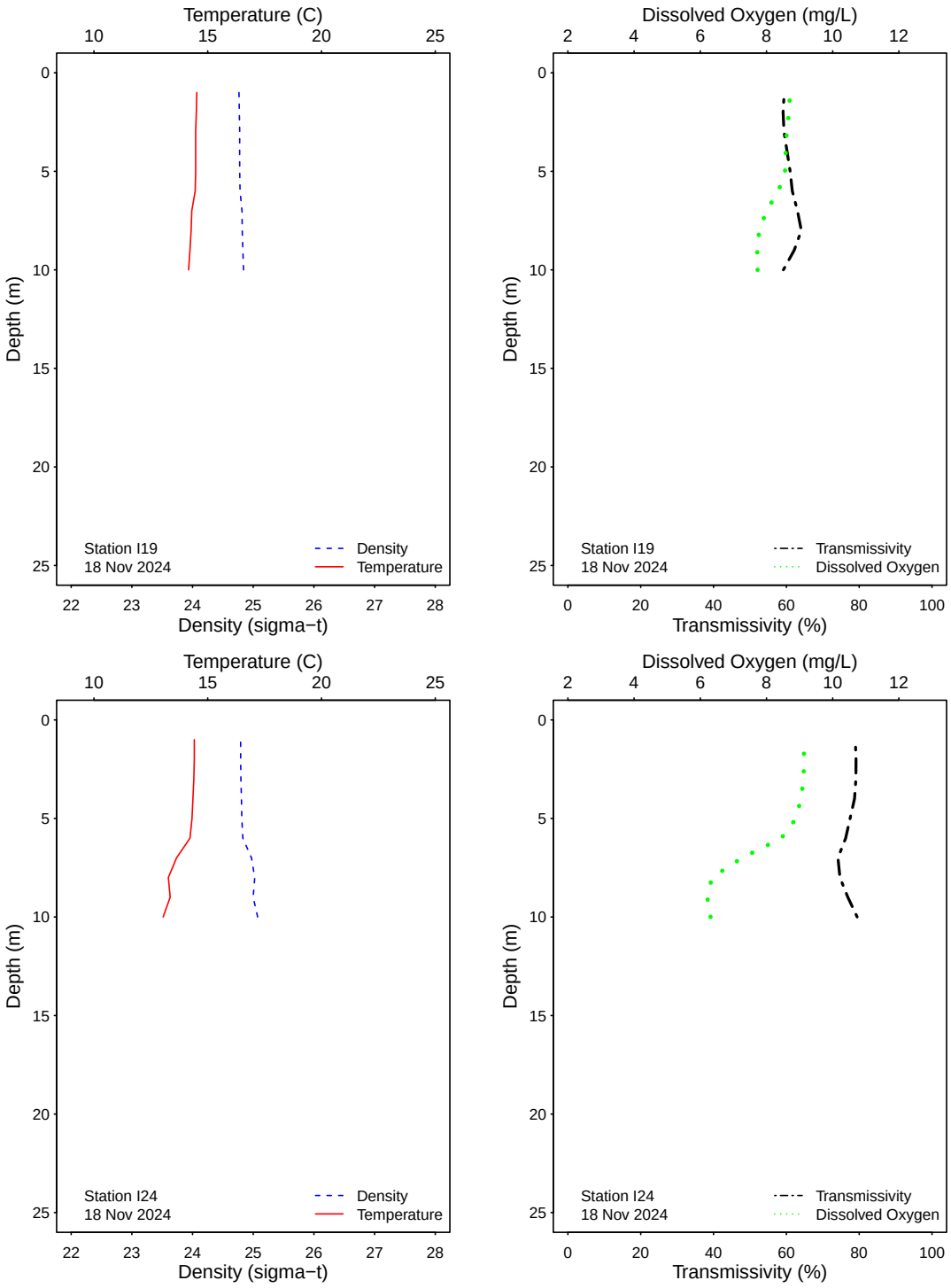

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

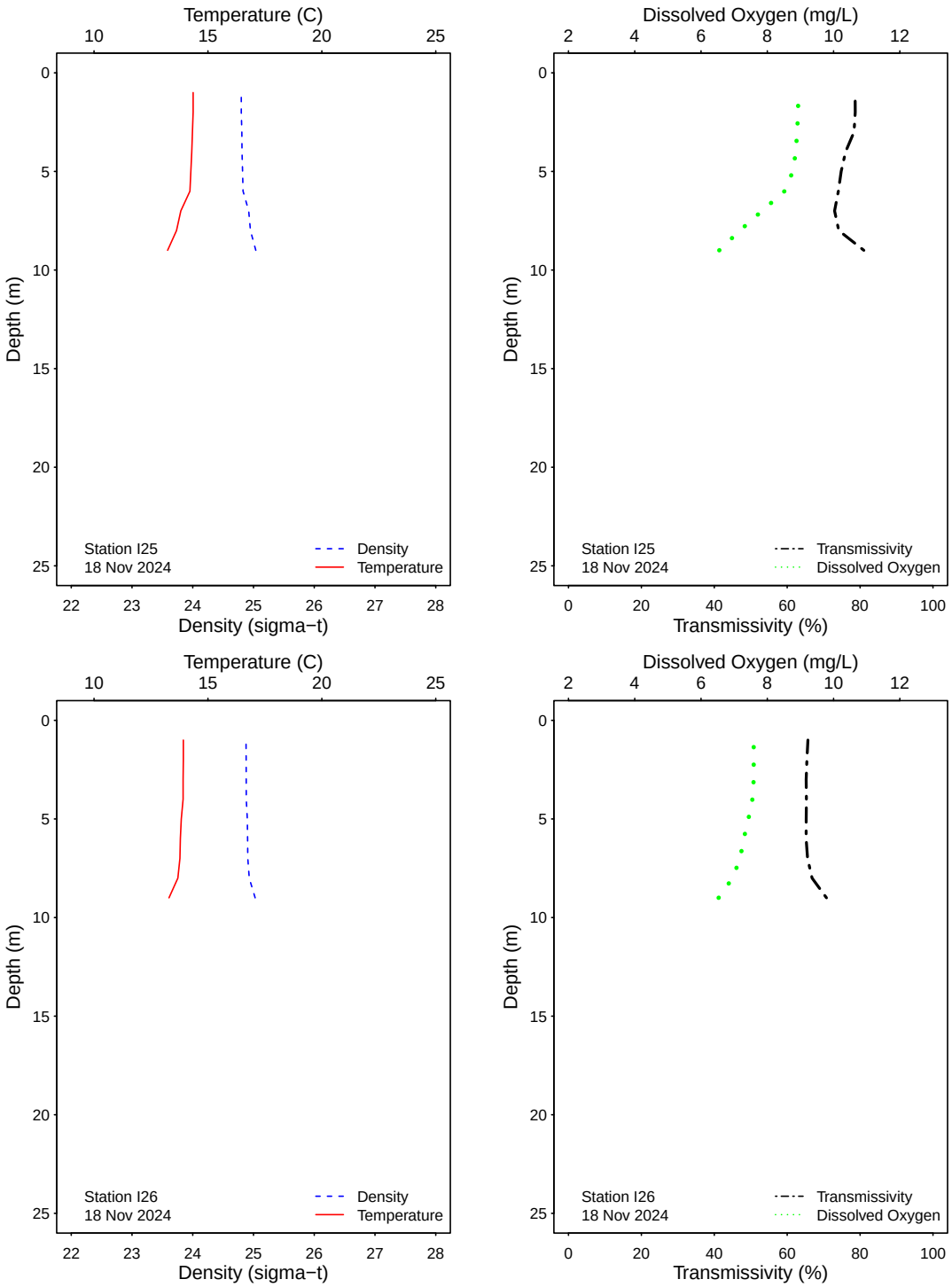

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

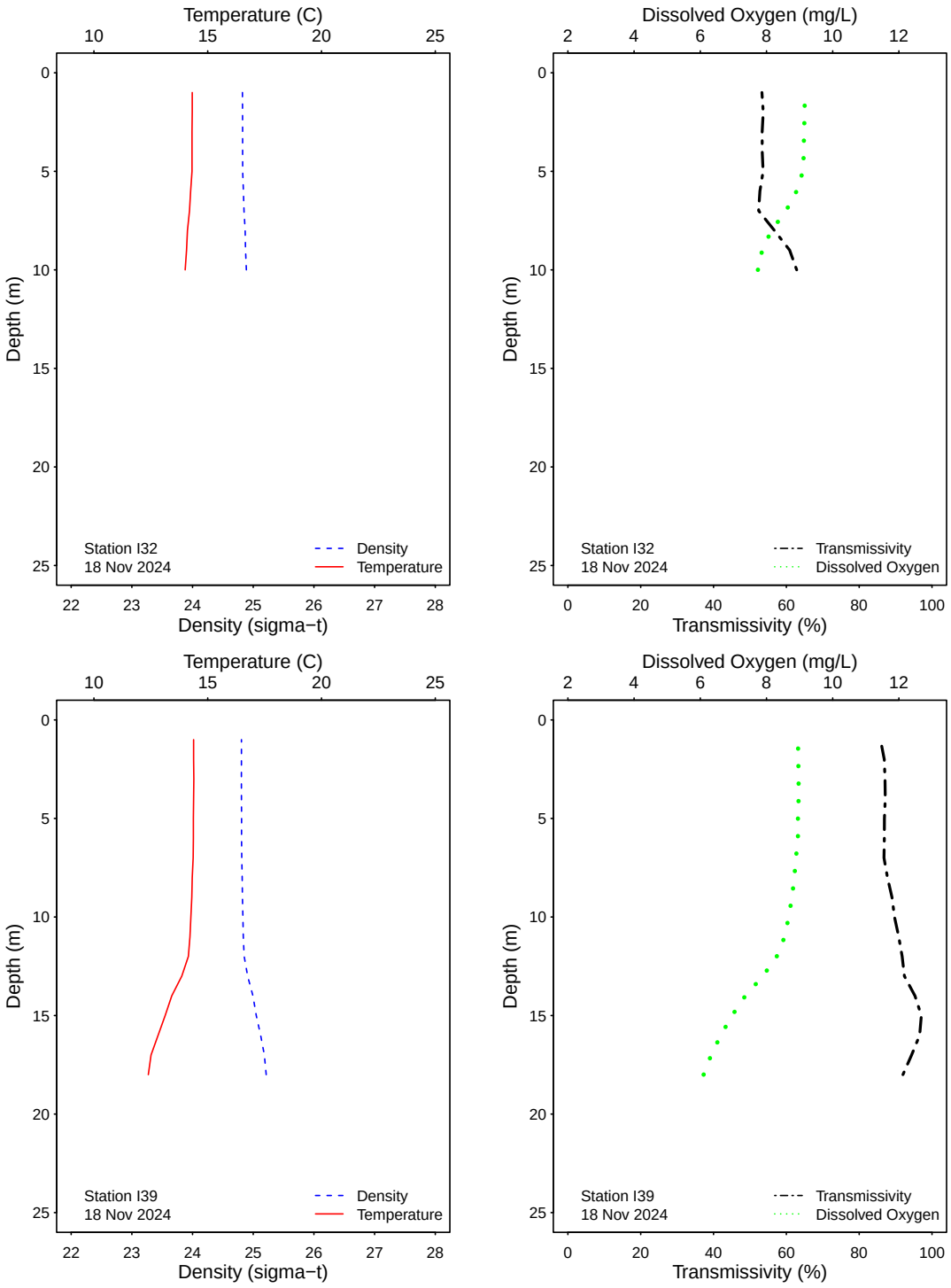

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

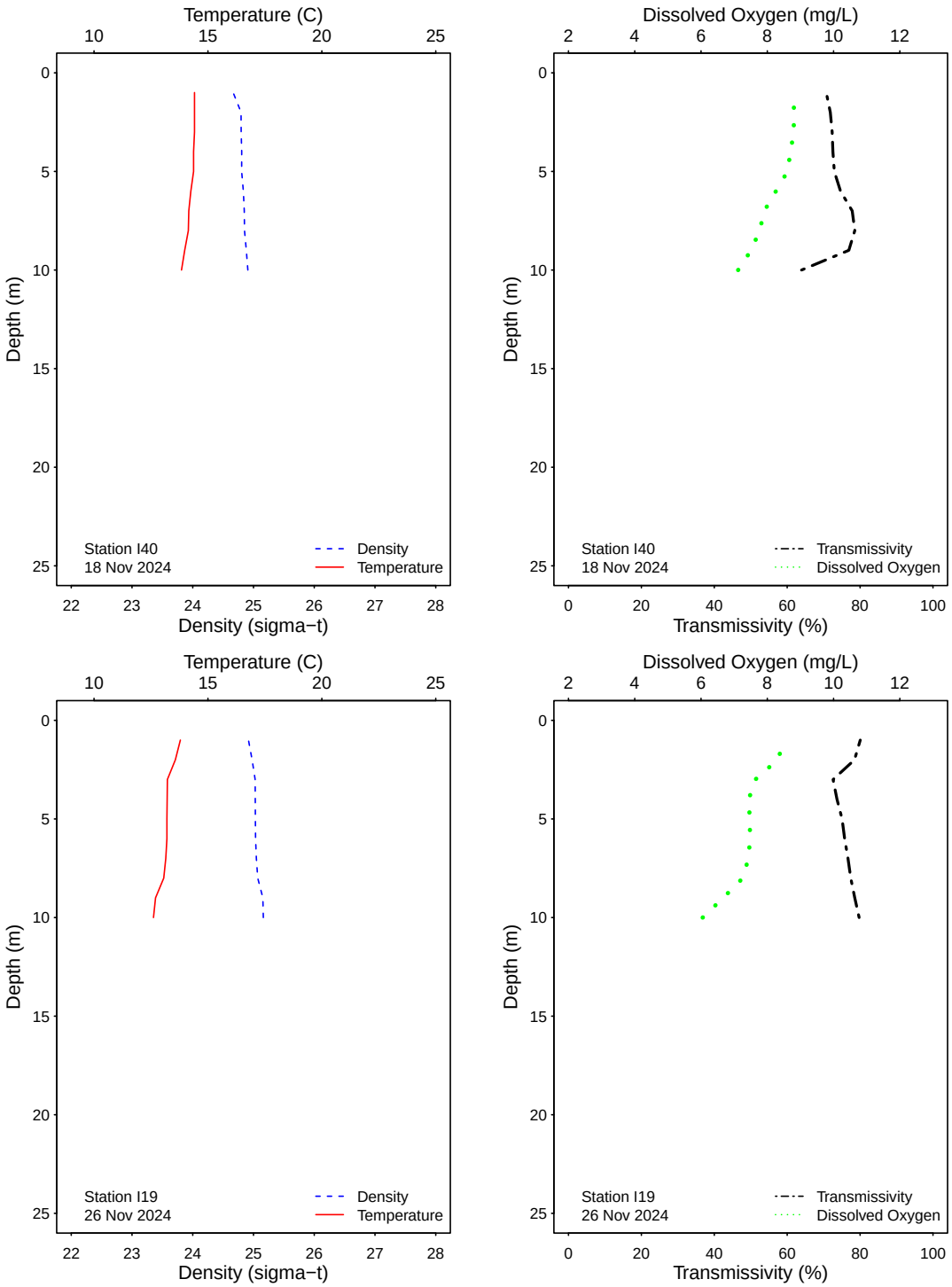

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

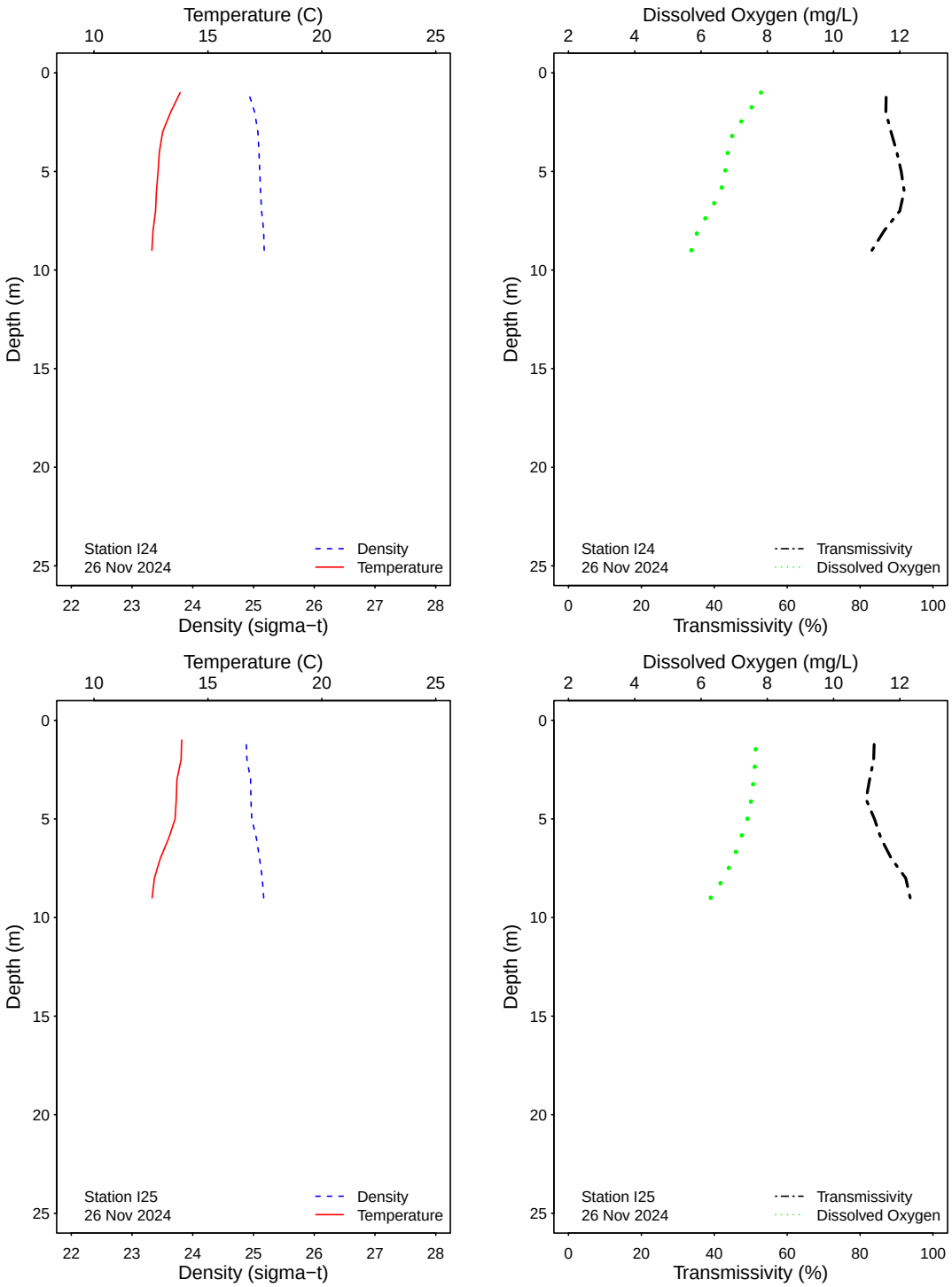

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

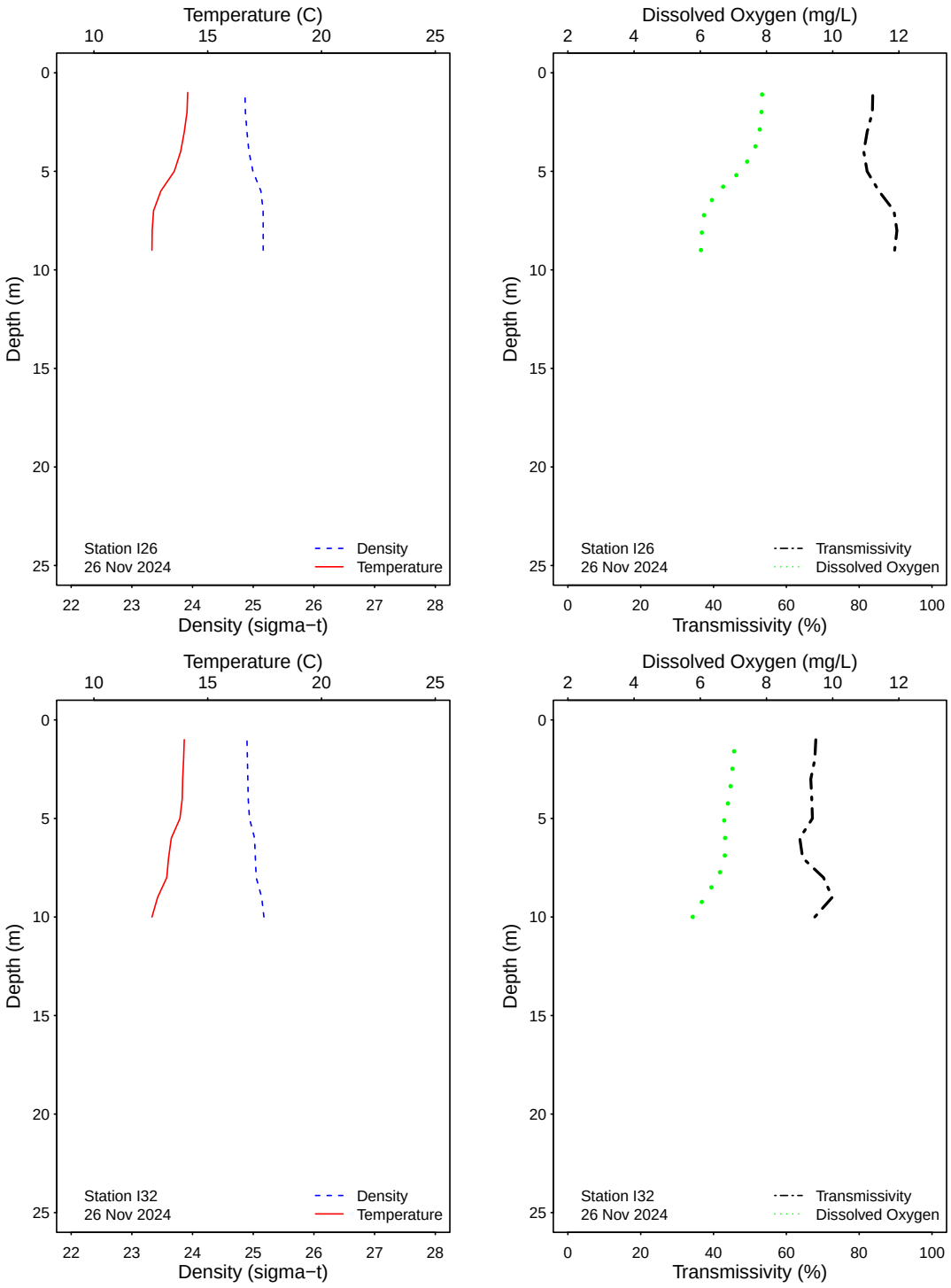

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

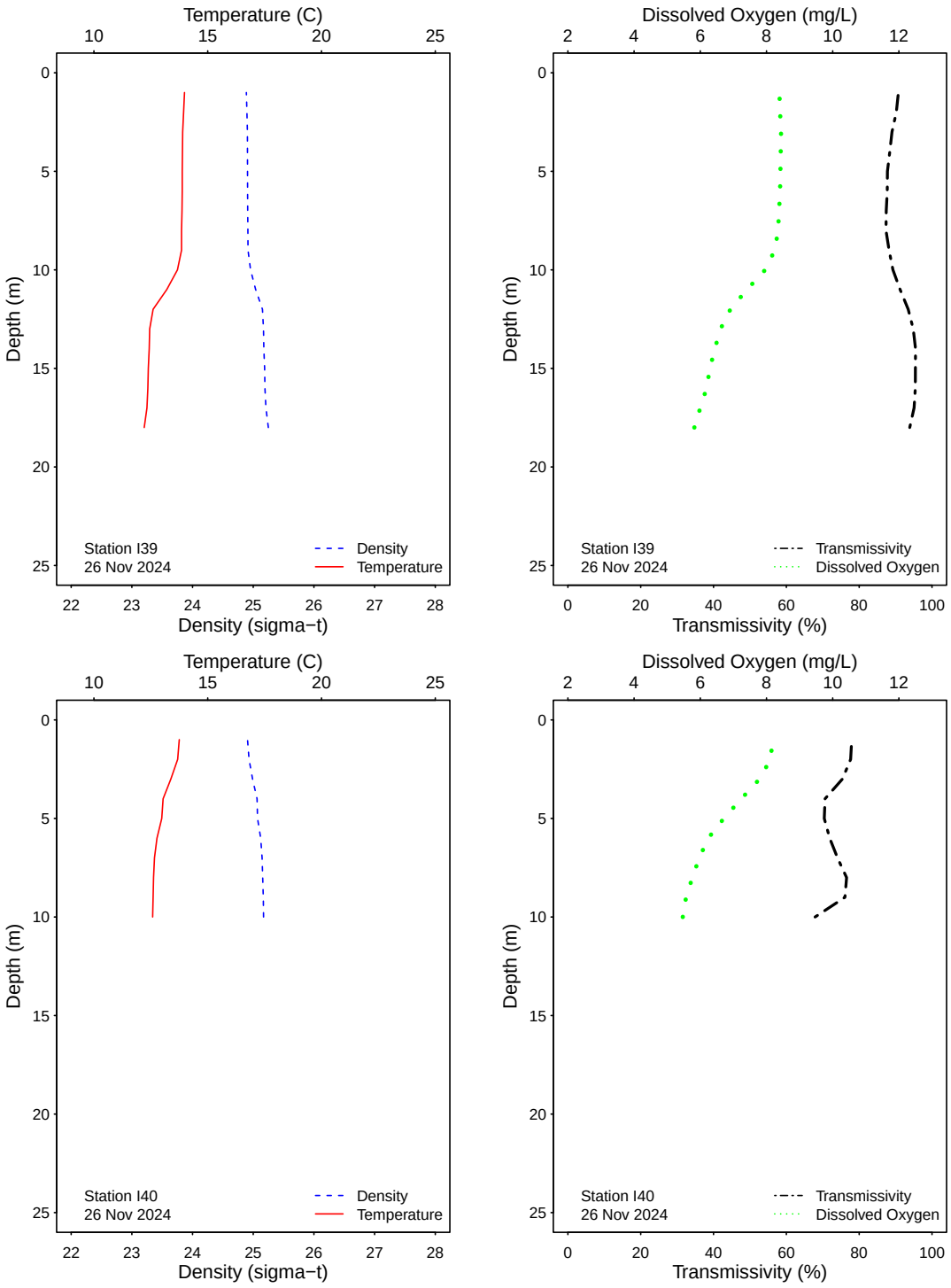

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

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Offshore Stations

Table 4.1

Summary of compliance at the SBOO offshore 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	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
06 Nov 2024	IC	IC	IC	**E**	IC	IC	ns	ns	ns	ns
07 Nov 2024	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 at the SBOO offshore 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	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
November	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 at the SBOO offshore 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.

	I12			I14			I16			I18			I22			I23			I33			I36			I37			I38		
Date	**2m**	**18m**	**27m**	**2m**	**18m**	**27m**	**2m**	**18m**	**27m**	**2m**	**12m**	**18m**	**2m**	**18m**	**27m**	**2m**	**12m**	**18m**	**2m**	**18m**	**27m**	**2m**	**6m**	**11m**	**2m**	**6m**	**11m**	**2m**	**6m**	**11m**
November	IC	IC	IC	IC	IC	IC	IC	**E**	IC	**E**	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC

C = 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
I10	05 Nov 2024	1019	2	<2	<2	<2
I10	05 Nov 2024	1019	12	34e	4e	4e
I10	05 Nov 2024	1019	18	12e	<2	2e
I11	05 Nov 2024	1009	2	600e	380e	48
I11	05 Nov 2024	1009	6	62	32e	8e
I11	05 Nov 2024	1009	11	20e	4e	10e
I12	06 Nov 2024	1036	2	<2	<2	<2
I12	06 Nov 2024	1036	18	66	12e	4e
I12	06 Nov 2024	1036	27	4e	<2	<2
I13	06 Nov 2024	1214	2	2e	<2	<2
I13	06 Nov 2024	1214	18	2e	<2	<2
I13	06 Nov 2024	1214	37	70	12e	<2
I14	06 Nov 2024	1017	2	<2	<2	<2
I14	06 Nov 2024	1017	18	200e	200e	48
I14	06 Nov 2024	1017	27	30e	4e	2e
I16	06 Nov 2024	1027	2	<2	<2	2e
I16	06 Nov 2024	1027	18	540	100	66
I16	06 Nov 2024	1027	27	22e	<2	2e
I18	06 Nov 2024	953	2	4800	500	200e
I18	06 Nov 2024	953	12	6e	2e	<2
I18	06 Nov 2024	953	18	6e	2e	4e
I20	06 Nov 2024	821	2	<2	<2	<2
I20	06 Nov 2024	821	18	<2	<2	<2
I20	06 Nov 2024	821	55	<2	<2	<2
I21	06 Nov 2024	844	2	2e	<2	<2
I21	06 Nov 2024	844	18	<2	<2	<2
I21	06 Nov 2024	844	37	280e	44	4e
I22	06 Nov 2024	922	2	<2	<2	<2
I22	06 Nov 2024	922	18	24e	10e	6e
I22	06 Nov 2024	922	27	38e	2e	4e
I23	06 Nov 2024	940	2	<2	<2	<2
I23	06 Nov 2024	940	12	<2	<2	<2
I23	06 Nov 2024	940	18	4e	<2	<2
I3	05 Nov 2024	915	2	<2	<2	2e
I3	05 Nov 2024	915	18	<20	<2	<2
I3	05 Nov 2024	915	27	<2	<2	<2
I30	07 Nov 2024	903	2	<2	<2	<2
I30	07 Nov 2024	903	18	40e	12e	4e
I30	07 Nov 2024	903	27	28e	4e	4e

Station	Date	Time	Depth	Total	Fecal	Entero
I33	07 Nov 2024	812	2	<2	<2	<2
I33	07 Nov 2024	812	18	<20	<2	<2
I33	07 Nov 2024	812	27	4e	<2	<2
I36	07 Nov 2024	935	2	<20	<2	<2
I36	07 Nov 2024	935	6	<20	<2	<2
I36	07 Nov 2024	935	11	<20	<2	<2
I37	07 Nov 2024	747	2	<2	<2	<2
I37	07 Nov 2024	747	6	<2	<2	<2
I37	07 Nov 2024	747	11	<2	<2	<2
I38	07 Nov 2024	1023	2	<2	<2	<2
I38	07 Nov 2024	1023	6	<20	<2	<2
I38	07 Nov 2024	1023	11	<20	2e	<2
I5	05 Nov 2024	939	2	320e	60e	20e
I5	05 Nov 2024	939	6	2e	2e	<2
I5	05 Nov 2024	939	11	<2	<2	<2
I7	05 Nov 2024	815	2	<2	<2	<2
I7	05 Nov 2024	815	18	<2	<2	<2
I7	05 Nov 2024	815	52	1200e	72	16e
I8	05 Nov 2024	1046	2	<2	<2	<2
I8	05 Nov 2024	1046	18	<2	<2	<2
I8	05 Nov 2024	1046	37	36e	10e	<2
I9	05 Nov 2024	1032	2	<2	<2	<2
I9	05 Nov 2024	1032	18	<2	<2	<2
I9	05 Nov 2024	1032	27	<2	<2	<2

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
I3	05 Nov 2024	Arrive Time	915
I3	05 Nov 2024	Depart Time	920
I3	05 Nov 2024	Air Temp (C)	16.7
I3	05 Nov 2024	Visibility (mi)	11
I3	05 Nov 2024	Wind Speed (kts)	1.6
I3	05 Nov 2024	Wind Dir	S
I3	05 Nov 2024	Sea State	Calm
I3	05 Nov 2024	High Tide Time	948
I3	05 Nov 2024	Low Tide Time	1748
I3	05 Nov 2024	Comments	
I4	05 Nov 2024	Arrive Time	929
I4	05 Nov 2024	Depart Time	935
I4	05 Nov 2024	Air Temp (C)	17.1
I4	05 Nov 2024	Visibility (mi)	11
I4	05 Nov 2024	Wind Speed (kts)	0
I4	05 Nov 2024	Wind Dir	S
I4	05 Nov 2024	Sea State	Calm
I4	05 Nov 2024	High Tide Time	948
I4	05 Nov 2024	Low Tide Time	1748
I4	05 Nov 2024	Comments	
I5	05 Nov 2024	Arrive Time	939
I5	05 Nov 2024	Depart Time	944
I5	05 Nov 2024	Air Temp (C)	16.9
I5	05 Nov 2024	Visibility (mi)	11
I5	05 Nov 2024	Wind Speed (kts)	1.5
I5	05 Nov 2024	Wind Dir	SW
I5	05 Nov 2024	Sea State	Calm
I5	05 Nov 2024	High Tide Time	948
I5	05 Nov 2024	Low Tide Time	1748
I5	05 Nov 2024	Comments	
I1	05 Nov 2024	Arrive Time	835
I1	05 Nov 2024	Depart Time	903
I1	05 Nov 2024	Air Temp (C)	16
I1	05 Nov 2024	Visibility (mi)	11
I1	05 Nov 2024	Wind Speed (kts)	4.1
I1	05 Nov 2024	Wind Dir	NW
I1	05 Nov 2024	Sea State	Calm
I1	05 Nov 2024	High Tide Time	948
I1	05 Nov 2024	Low Tide Time	1748
I1	05 Nov 2024	Comments	OA 1m Btl# Nsk# ;OA 30m Btl# Nsk# ;OA 60m Btl# Nsk# ;OA 60m-dup Btl# Nsk# ;
I2	05 Nov 2024	Arrive Time	903
I2	05 Nov 2024	Depart Time	907
I2	05 Nov 2024	Air Temp (C)	17
I2	05 Nov 2024	Visibility (mi)	11
I2	05 Nov 2024	Wind Speed (kts)	0
I2	05 Nov 2024	Wind Dir	SE
I2	05 Nov 2024	Sea State	Calm
I2	05 Nov 2024	High Tide Time	948
I2	05 Nov 2024	Low Tide Time	1748
I2	05 Nov 2024	Comments	

Station	Date	Parameter	Value
I6	05 Nov 2024	Arrive Time	954
I6	05 Nov 2024	Depart Time	1000
I6	05 Nov 2024	Air Temp (C)	16.4
I6	05 Nov 2024	Visibility (mi)	11
I6	05 Nov 2024	Wind Speed (kts)	5.9
I6	05 Nov 2024	Wind Dir	W
I6	05 Nov 2024	Sea State	Calm
I6	05 Nov 2024	High Tide Time	948
I6	05 Nov 2024	Low Tide Time	1748
I6	05 Nov 2024	Comments	
I9	05 Nov 2024	Arrive Time	1032
I9	05 Nov 2024	Depart Time	1038
I9	05 Nov 2024	Air Temp (C)	16.4
I9	05 Nov 2024	Visibility (mi)	11
I9	05 Nov 2024	Wind Speed (kts)	7.7
I9	05 Nov 2024	Wind Dir	W
I9	05 Nov 2024	Sea State	Calm
I9	05 Nov 2024	High Tide Time	948
I9	05 Nov 2024	Low Tide Time	1748
I9	05 Nov 2024	Comments	
I11	05 Nov 2024	Arrive Time	1009
I11	05 Nov 2024	Depart Time	1013
I11	05 Nov 2024	Air Temp (C)	16.6
I11	05 Nov 2024	Visibility (mi)	11
I11	05 Nov 2024	Wind Speed (kts)	0
I11	05 Nov 2024	Wind Dir	SE
I11	05 Nov 2024	Sea State	Calm
I11	05 Nov 2024	High Tide Time	948
I11	05 Nov 2024	Low Tide Time	1748
I11	05 Nov 2024	Comments	
I10	05 Nov 2024	Arrive Time	1019
I10	05 Nov 2024	Depart Time	1025
I10	05 Nov 2024	Air Temp (C)	16.2
I10	05 Nov 2024	Visibility (mi)	11
I10	05 Nov 2024	Wind Speed (kts)	12.4
I10	05 Nov 2024	Wind Dir	W
I10	05 Nov 2024	Sea State	Calm
I10	05 Nov 2024	High Tide Time	948
I10	05 Nov 2024	Low Tide Time	1748
I10	05 Nov 2024	Comments	
I7	05 Nov 2024	Arrive Time	815
I7	05 Nov 2024	Depart Time	823
I7	05 Nov 2024	Air Temp (C)	15.8
I7	05 Nov 2024	Visibility (mi)	11
I7	05 Nov 2024	Wind Speed (kts)	5.1
I7	05 Nov 2024	Wind Dir	N
I7	05 Nov 2024	Sea State	Calm
I7	05 Nov 2024	High Tide Time	948
I7	05 Nov 2024	Low Tide Time	1748
I7	05 Nov 2024	Comments	
I8	05 Nov 2024	Arrive Time	1046
I8	05 Nov 2024	Depart Time	1058
I8	05 Nov 2024	Air Temp (C)	16.9
I8	05 Nov 2024	Visibility (mi)	11
I8	05 Nov 2024	Wind Speed (kts)	2.6
I8	05 Nov 2024	Wind Dir	W

Station	Date	Parameter	Value
I8	05 Nov 2024	Sea State	Calm
I8	05 Nov 2024	High Tide Time	948
I8	05 Nov 2024	Low Tide Time	1748
I8	05 Nov 2024	Comments	
I12	06 Nov 2024	Arrive Time	1036
I12	06 Nov 2024	Depart Time	1042
I12	06 Nov 2024	Air Temp (C)	17.3
I12	06 Nov 2024	Visibility (mi)	12
I12	06 Nov 2024	Wind Speed (kts)	2.7
I12	06 Nov 2024	Wind Dir	W
I12	06 Nov 2024	Sea State	Calm
I12	06 Nov 2024	High Tide Time	1030
I12	06 Nov 2024	Low Tide Time	1900
I12	06 Nov 2024	Comments	OA 1m Btl# Nsk# ;OA 26m Btl# Nsk# ;OA 26m-dup Btl# Nsk# ;
I18	06 Nov 2024	Arrive Time	953
I18	06 Nov 2024	Depart Time	1006
I18	06 Nov 2024	Air Temp (C)	15.9
I18	06 Nov 2024	Visibility (mi)	12
I18	06 Nov 2024	Wind Speed (kts)	7.4
I18	06 Nov 2024	Wind Dir	NW
I18	06 Nov 2024	Sea State	Calm
I18	06 Nov 2024	High Tide Time	1030
I18	06 Nov 2024	Low Tide Time	1900
I18	06 Nov 2024	Comments	Lobster Floats
I13	06 Nov 2024	Arrive Time	1214
I13	06 Nov 2024	Depart Time	1223
I13	06 Nov 2024	Air Temp (C)	18.2
I13	06 Nov 2024	Visibility (mi)	12
I13	06 Nov 2024	Wind Speed (kts)	5.9
I13	06 Nov 2024	Wind Dir	W
I13	06 Nov 2024	Sea State	Calm
I13	06 Nov 2024	High Tide Time	1030
I13	06 Nov 2024	Low Tide Time	1900
I13	06 Nov 2024	Comments	
I15	06 Nov 2024	Arrive Time	1159
I15	06 Nov 2024	Depart Time	1214
I15	06 Nov 2024	Air Temp (C)	17.8
I15	06 Nov 2024	Visibility (mi)	12
I15	06 Nov 2024	Wind Speed (kts)	6
I15	06 Nov 2024	Wind Dir	W
I15	06 Nov 2024	Sea State	Calm
I15	06 Nov 2024	High Tide Time	1030
I15	06 Nov 2024	Low Tide Time	1900
I15	06 Nov 2024	Comments	
I16	06 Nov 2024	Arrive Time	1027
I16	06 Nov 2024	Depart Time	1036
I16	06 Nov 2024	Air Temp (C)	17.2
I16	06 Nov 2024	Visibility (mi)	12
I16	06 Nov 2024	Wind Speed (kts)	3.4
I16	06 Nov 2024	Wind Dir	W
I16	06 Nov 2024	Sea State	Calm
I16	06 Nov 2024	High Tide Time	1030
I16	06 Nov 2024	Low Tide Time	1900
I16	06 Nov 2024	Comments	

Station	Date	Parameter	Value
I17	06 Nov 2024	Arrive Time	1006
I17	06 Nov 2024	Depart Time	1011
I17	06 Nov 2024	Air Temp (C)	16.8
I17	06 Nov 2024	Visibility (mi)	12
I17	06 Nov 2024	Wind Speed (kts)	3.7
I17	06 Nov 2024	Wind Dir	NW
I17	06 Nov 2024	Sea State	Calm
I17	06 Nov 2024	High Tide Time	1030
I17	06 Nov 2024	Low Tide Time	1900
I17	06 Nov 2024	Comments	Lobster Floats
I14	06 Nov 2024	Arrive Time	1017
I14	06 Nov 2024	Depart Time	1025
I14	06 Nov 2024	Air Temp (C)	17.2
I14	06 Nov 2024	Visibility (mi)	12
I14	06 Nov 2024	Wind Speed (kts)	1.6
I14	06 Nov 2024	Wind Dir	NW
I14	06 Nov 2024	Sea State	Calm
I14	06 Nov 2024	High Tide Time	1030
I14	06 Nov 2024	Low Tide Time	1900
I14	06 Nov 2024	Comments	
I23	06 Nov 2024	Arrive Time	940
I23	06 Nov 2024	Depart Time	943
I23	06 Nov 2024	Air Temp (C)	16.4
I23	06 Nov 2024	Visibility (mi)	12
I23	06 Nov 2024	Wind Speed (kts)	3.4
I23	06 Nov 2024	Wind Dir	NW
I23	06 Nov 2024	Sea State	Calm
I23	06 Nov 2024	High Tide Time	1030
I23	06 Nov 2024	Low Tide Time	1900
I23	06 Nov 2024	Comments	
I22	06 Nov 2024	Arrive Time	922
I22	06 Nov 2024	Depart Time	930
I22	06 Nov 2024	Air Temp (C)	16.7
I22	06 Nov 2024	Visibility (mi)	12
I22	06 Nov 2024	Wind Speed (kts)	1.7
I22	06 Nov 2024	Wind Dir	NW
I22	06 Nov 2024	Sea State	Calm
I22	06 Nov 2024	High Tide Time	1030
I22	06 Nov 2024	Low Tide Time	1900
I22	06 Nov 2024	Comments	Dolphins on station 50 to 100
I20	06 Nov 2024	Arrive Time	821
I20	06 Nov 2024	Depart Time	829
I20	06 Nov 2024	Air Temp (C)	15.4
I20	06 Nov 2024	Visibility (mi)	12
I20	06 Nov 2024	Wind Speed (kts)	4
I20	06 Nov 2024	Wind Dir	N
I20	06 Nov 2024	Sea State	Calm
I20	06 Nov 2024	High Tide Time	1030
I20	06 Nov 2024	Low Tide Time	1900
I20	06 Nov 2024	Comments	
I21	06 Nov 2024	Arrive Time	844
I21	06 Nov 2024	Depart Time	848
I21	06 Nov 2024	Air Temp (C)	15.8
I21	06 Nov 2024	Visibility (mi)	12
I21	06 Nov 2024	Wind Speed (kts)	5.3
I21	06 Nov 2024	Wind Dir	N

Station	Date	Parameter	Value
I21	06 Nov 2024	Sea State	Calm
I21	06 Nov 2024	High Tide Time	1030
I21	06 Nov 2024	Low Tide Time	1900
I21	06 Nov 2024	Comments	OA 1m Btl# 2411066711 Nsk# 5;OA 41m Btl# 2411066712 Nsk# 4;
I27	06 Nov 2024	Arrive Time	910
I27	06 Nov 2024	Depart Time	914
I27	06 Nov 2024	Air Temp (C)	16
I27	06 Nov 2024	Visibility (mi)	12
I27	06 Nov 2024	Wind Speed (kts)	2.9
I27	06 Nov 2024	Wind Dir	NW
I27	06 Nov 2024	Sea State	Calm
I27	06 Nov 2024	High Tide Time	1030
I27	06 Nov 2024	Low Tide Time	1900
I27	06 Nov 2024	Comments	
I28	07 Nov 2024	Arrive Time	826
I28	07 Nov 2024	Depart Time	834
I28	07 Nov 2024	Air Temp (C)	16
I28	07 Nov 2024	Visibility (mi)	12
I28	07 Nov 2024	Wind Speed (kts)	1.9
I28	07 Nov 2024	Wind Dir	NW
I28	07 Nov 2024	Sea State	Calm
I28	07 Nov 2024	High Tide Time	1124
I28	07 Nov 2024	Low Tide Time	2006
I28	07 Nov 2024	Comments	OA 1m Btl# 2411076716 Nsk# 4;OA 55m Btl# 2411076717 Nsk# 2;
I29	07 Nov 2024	Arrive Time	852
I29	07 Nov 2024	Depart Time	856
I29	07 Nov 2024	Air Temp (C)	15.6
I29	07 Nov 2024	Visibility (mi)	12
I29	07 Nov 2024	Wind Speed (kts)	2.9
I29	07 Nov 2024	Wind Dir	NW
I29	07 Nov 2024	Sea State	Calm
I29	07 Nov 2024	High Tide Time	1124
I29	07 Nov 2024	Low Tide Time	2006
I29	07 Nov 2024	Comments	Navy ship on station
I30	07 Nov 2024	Arrive Time	903
I30	07 Nov 2024	Depart Time	908
I30	07 Nov 2024	Air Temp (C)	15.8
I30	07 Nov 2024	Visibility (mi)	12
I30	07 Nov 2024	Wind Speed (kts)	6.6
I30	07 Nov 2024	Wind Dir	NW
I30	07 Nov 2024	Sea State	Calm
I30	07 Nov 2024	High Tide Time	1124
I30	07 Nov 2024	Low Tide Time	2006
I30	07 Nov 2024	Comments	
I31	07 Nov 2024	Arrive Time	915
I31	07 Nov 2024	Depart Time	921
I31	07 Nov 2024	Air Temp (C)	15.5
I31	07 Nov 2024	Visibility (mi)	12
I31	07 Nov 2024	Wind Speed (kts)	4.2
I31	07 Nov 2024	Wind Dir	W
I31	07 Nov 2024	Sea State	Calm
I31	07 Nov 2024	High Tide Time	1124
I31	07 Nov 2024	Low Tide Time	2006
I31	07 Nov 2024	Comments	

Station	Date	Parameter	Value
I33	07 Nov 2024	Arrive Time	812
I33	07 Nov 2024	Depart Time	818
I33	07 Nov 2024	Air Temp (C)	14.8
I33	07 Nov 2024	Visibility (mi)	12
I33	07 Nov 2024	Wind Speed (kts)	2.9
I33	07 Nov 2024	Wind Dir	N
I33	07 Nov 2024	Sea State	Calm
I33	07 Nov 2024	High Tide Time	1124
I33	07 Nov 2024	Low Tide Time	2006
I33	07 Nov 2024	Comments	
I34	07 Nov 2024	Arrive Time	800
I34	07 Nov 2024	Depart Time	812
I34	07 Nov 2024	Air Temp (C)	15
I34	07 Nov 2024	Visibility (mi)	12
I34	07 Nov 2024	Wind Speed (kts)	1.4
I34	07 Nov 2024	Wind Dir	NW
I34	07 Nov 2024	Sea State	Calm
I34	07 Nov 2024	High Tide Time	1124
I34	07 Nov 2024	Low Tide Time	2006
I34	07 Nov 2024	Comments	
I35	07 Nov 2024	Arrive Time	952
I35	07 Nov 2024	Depart Time	956
I35	07 Nov 2024	Air Temp (C)	17.2
I35	07 Nov 2024	Visibility (mi)	12
I35	07 Nov 2024	Wind Speed (kts)	3.6
I35	07 Nov 2024	Wind Dir	SW
I35	07 Nov 2024	Sea State	Calm
I35	07 Nov 2024	High Tide Time	1124
I35	07 Nov 2024	Low Tide Time	2006
I35	07 Nov 2024	Comments	
I36	07 Nov 2024	Arrive Time	935
I36	07 Nov 2024	Depart Time	940
I36	07 Nov 2024	Air Temp (C)	16.6
I36	07 Nov 2024	Visibility (mi)	12
I36	07 Nov 2024	Wind Speed (kts)	3.5
I36	07 Nov 2024	Wind Dir	W
I36	07 Nov 2024	Sea State	Calm
I36	07 Nov 2024	High Tide Time	1124
I36	07 Nov 2024	Low Tide Time	2006
I36	07 Nov 2024	Comments	
I37	07 Nov 2024	Arrive Time	747
I37	07 Nov 2024	Depart Time	754
I37	07 Nov 2024	Air Temp (C)	14.3
I37	07 Nov 2024	Visibility (mi)	12
I37	07 Nov 2024	Wind Speed (kts)	1.5
I37	07 Nov 2024	Wind Dir	NE
I37	07 Nov 2024	Sea State	Calm
I37	07 Nov 2024	High Tide Time	1124
I37	07 Nov 2024	Low Tide Time	2006
I37	07 Nov 2024	Comments	Initial CTD cast was not loading in igods did a recast of station at the end of the day
I38	07 Nov 2024	Arrive Time	1023
I38	07 Nov 2024	Depart Time	1025
I38	07 Nov 2024	Air Temp (C)	17.2
I38	07 Nov 2024	Visibility (mi)	12

Station	Date	Parameter	Value
I38	07 Nov 2024	Wind Speed (kts)	5.9
I38	07 Nov 2024	Wind Dir	SW
I38	07 Nov 2024	Sea State	Calm
I38	07 Nov 2024	High Tide Time	1124
I38	07 Nov 2024	Low Tide Time	2006
I38	07 Nov 2024	Comments	

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 (s-t)	Chlor (µg/L)
I3	05 Nov 2024	1	16.03	86.93	8.7	33.29	8.2	24.4	1.41
I3	05 Nov 2024	2	16.04	87.33	8.7	33.29	8.2	24.4	1.45
I3	05 Nov 2024	3	16.00	87.62	8.8	33.30	8.2	24.4	1.54
I3	05 Nov 2024	4	15.94	87.02	8.8	33.29	8.3	24.4	2.66
I3	05 Nov 2024	5	15.90	84.50	8.6	33.29	8.2	24.5	3.81
I3	05 Nov 2024	6	15.77	84.97	8.3	33.30	8.2	24.5	3.85
I3	05 Nov 2024	7	15.19	87.47	7.9	33.31	8.2	24.6	3.23
I3	05 Nov 2024	8	14.81	90.48	7.6	33.27	8.1	24.7	2.55
I3	05 Nov 2024	9	14.73	91.87	7.5	33.27	8.1	24.7	2.21
I3	05 Nov 2024	10	14.70	92.76	7.4	33.27	8.1	24.7	2.03
I3	05 Nov 2024	11	14.57	93.19	7.3	33.27	8.1	24.7	1.71
I3	05 Nov 2024	12	14.31	93.64	7.2	33.27	8.1	24.8	1.54
I3	05 Nov 2024	13	13.92	94.12	7.0	33.28	8.1	24.9	1.36
I3	05 Nov 2024	14	12.99	94.45	6.8	33.28	8.1	25.1	1.24
I3	05 Nov 2024	15	12.61	95.36	6.6	33.25	8.0	25.1	1.12
I3	05 Nov 2024	16	12.46	96.48	6.5	33.25	8.0	25.1	1.08
I3	05 Nov 2024	17	12.34	97.12	6.5	33.25	8.0	25.2	1.04
I3	05 Nov 2024	18	12.17	97.63	6.6	33.25	8.0	25.2	1.01
I3	05 Nov 2024	19	12.07	97.90	6.5	33.26	8.0	25.2	0.96
I3	05 Nov 2024	20	12.06	98.15	6.3	33.27	8.0	25.2	0.89
I3	05 Nov 2024	21	12.06	96.48	6.2	33.28	8.0	25.2	0.84
I3	05 Nov 2024	22	12.06	94.73	6.2	33.28	8.0	25.2	0.84
I3	05 Nov 2024	23	12.06	94.69	6.1	33.28	8.0	25.2	0.84
I3	05 Nov 2024	24	12.06	94.34	6.1	33.28	8.0	25.2	0.82
I3	05 Nov 2024	25	12.06	94.01	6.1	33.28	8.0	25.2	0.87
I3	05 Nov 2024	26	12.06	92.82	6.1	33.29	8.0	25.2	0.85
I3	05 Nov 2024	27	12.06	91.65	6.1	33.29	8.0	25.2	0.85
I4	05 Nov 2024	1	15.12	65.91	8.8	33.23	8.2	24.6	3.10
I4	05 Nov 2024	2	15.09	65.71	8.8	33.23	8.2	24.6	3.95
I4	05 Nov 2024	3	14.93	64.41	8.2	33.24	8.2	24.6	5.86
I4	05 Nov 2024	4	13.96	65.60	7.4	33.25	8.1	24.8	3.80
I4	05 Nov 2024	5	13.21	77.30	7.0	33.21	8.1	25.0	2.29
I4	05 Nov 2024	6	12.93	88.53	6.7	33.23	8.0	25.0	1.70
I4	05 Nov 2024	7	12.70	91.99	6.6	33.23	8.0	25.1	1.38
I4	05 Nov 2024	8	12.53	93.91	6.6	33.24	8.0	25.1	1.25
I4	05 Nov 2024	9	12.41	96.04	6.5	33.24	8.0	25.1	1.18
I4	05 Nov 2024	10	12.29	95.98	6.4	33.25	8.0	25.2	1.16
I4	05 Nov 2024	11	12.21	95.31	6.3	33.26	8.0	25.2	1.12
I4	05 Nov 2024	12	12.19	93.98	6.2	33.26	8.0	25.2	1.14
I4	05 Nov 2024	13	12.18	91.40	6.1	33.27	8.0	25.2	1.17
I4	05 Nov 2024	14	12.18	89.32	6.1	33.27	8.0	25.2	1.18
I4	05 Nov 2024	15	12.19	89.15	6.1	33.27	8.0	25.2	1.16
I4	05 Nov 2024	16	12.19	88.06	6.1	33.27	8.0	25.2	1.15
I4	05 Nov 2024	17	12.19	84.97	6.1	33.27	8.0	25.2	1.16
I4	05 Nov 2024	18	12.19	83.81	6.1	33.27	8.0	25.2	1.17
I5	05 Nov 2024	1	14.75	46.62	8.4	33.24	8.2	24.7	20.86
I5	05 Nov 2024	2	14.71	46.68	8.2	33.24	8.2	24.7	20.76
I5	05 Nov 2024	3	14.31	48.17	7.3	33.27	8.1	24.8	15.93
I5	05 Nov 2024	4	13.12	60.35	6.7	33.28	8.0	25.0	7.33
I5	05 Nov 2024	5	12.64	66.65	6.3	33.26	8.0	25.1	3.06
I5	05 Nov 2024	6	12.46	79.65	6.2	33.25	8.0	25.1	1.94
I5	05 Nov 2024	7	12.42	84.51	6.1	33.25	8.0	25.2	1.51
I5	05 Nov 2024	8	12.38	85.36	6.0	33.26	8.0	25.2	1.29

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I5	05 Nov 2024	9	12.38	83.36	6.0	33.26	8.0	25.2	1.23
I5	05 Nov 2024	10	12.35	81.42	6.0	33.26	8.0	25.2	1.27
I5	05 Nov 2024	11	12.32	78.21	6.0	33.26	8.0	25.2	1.35
I5	05 Nov 2024	12	12.32	75.83	6.0	33.26	8.0	25.2	1.32
I5	05 Nov 2024	13	12.32	74.87	6.0	33.26	8.0	25.2	1.36
I5	05 Nov 2024	14	12.31	75.34	6.1	33.26	8.0	25.2	1.34
I1	05 Nov 2024	1	16.94	93.47	9.3	33.35	8.3	24.3	0.56
I1	05 Nov 2024	2	16.94	93.76	9.3	33.35	8.3	24.3	0.57
I1	05 Nov 2024	3	16.94	94.08	9.3	33.35	8.3	24.3	0.56
I1	05 Nov 2024	4	16.93	94.12	9.3	33.35	8.3	24.3	0.62
I1	05 Nov 2024	5	16.93	94.19	9.3	33.35	8.3	24.3	0.73
I1	05 Nov 2024	6	16.91	94.21	9.2	33.35	8.3	24.3	0.94
I1	05 Nov 2024	7	16.82	94.19	9.0	33.35	8.3	24.3	0.97
I1	05 Nov 2024	8	16.26	94.14	8.6	33.34	8.3	24.4	0.93
I1	05 Nov 2024	9	15.22	94.80	8.4	33.26	8.2	24.6	0.84
I1	05 Nov 2024	10	14.92	95.59	8.2	33.23	8.2	24.6	0.89
I1	05 Nov 2024	11	14.76	95.91	8.0	33.21	8.1	24.6	0.89
I1	05 Nov 2024	12	14.62	95.92	7.9	33.21	8.1	24.7	0.96
I1	05 Nov 2024	13	14.54	95.91	7.7	33.21	8.1	24.7	0.96
I1	05 Nov 2024	14	14.51	95.85	7.6	33.21	8.1	24.7	0.87
I1	05 Nov 2024	15	14.49	95.84	7.6	33.21	8.1	24.7	0.89
I1	05 Nov 2024	16	14.44	95.86	7.5	33.21	8.1	24.7	0.95
I1	05 Nov 2024	17	14.40	95.94	7.4	33.22	8.1	24.7	0.95
I1	05 Nov 2024	18	14.28	95.89	7.4	33.22	8.1	24.8	0.95
I1	05 Nov 2024	19	14.03	95.84	7.6	33.21	8.1	24.8	1.11
I1	05 Nov 2024	20	13.85	95.72	7.7	33.21	8.1	24.8	1.34
I1	05 Nov 2024	21	13.78	95.39	7.7	33.20	8.1	24.8	1.56
I1	05 Nov 2024	22	13.68	95.21	7.7	33.21	8.1	24.9	1.72
I1	05 Nov 2024	23	13.51	95.09	7.6	33.21	8.1	24.9	1.91
I1	05 Nov 2024	24	13.42	94.99	7.6	33.20	8.1	24.9	2.01
I1	05 Nov 2024	25	13.39	95.45	7.5	33.20	8.1	24.9	1.91
I1	05 Nov 2024	26	13.35	95.93	7.4	33.21	8.1	24.9	1.74
I1	05 Nov 2024	27	13.16	96.20	7.3	33.22	8.1	25.0	1.62
I1	05 Nov 2024	28	13.09	96.65	7.2	33.22	8.1	25.0	1.46
I1	05 Nov 2024	29	13.04	97.26	7.2	33.22	8.1	25.0	1.33
I1	05 Nov 2024	30	12.94	97.68	7.1	33.22	8.1	25.0	1.20
I1	05 Nov 2024	31	12.87	98.02	7.0	33.23	8.0	25.0	1.14
I1	05 Nov 2024	32	12.66	98.23	6.7	33.24	8.0	25.1	1.03
I1	05 Nov 2024	33	12.55	98.36	6.5	33.25	8.0	25.1	0.96
I1	05 Nov 2024	34	12.33	98.41	6.4	33.27	8.0	25.2	0.86
I1	05 Nov 2024	35	12.24	98.60	6.3	33.27	8.0	25.2	0.80
I1	05 Nov 2024	36	12.23	98.83	6.4	33.27	8.0	25.2	0.78
I1	05 Nov 2024	37	12.22	98.85	6.4	33.26	8.0	25.2	0.81
I1	05 Nov 2024	38	12.18	98.86	6.4	33.26	8.0	25.2	0.80
I1	05 Nov 2024	39	12.16	98.81	6.5	33.26	8.0	25.2	0.81
I1	05 Nov 2024	40	12.12	98.98	6.5	33.27	8.0	25.2	0.80
I1	05 Nov 2024	41	12.09	99.10	6.5	33.27	8.0	25.2	0.79
I1	05 Nov 2024	42	12.07	99.18	6.5	33.27	8.0	25.2	0.82
I1	05 Nov 2024	43	12.04	99.25	6.5	33.27	8.0	25.2	0.85
I1	05 Nov 2024	44	11.96	99.31	6.4	33.28	8.0	25.3	0.81
I1	05 Nov 2024	45	11.88	99.39	6.4	33.29	8.0	25.3	0.69
I1	05 Nov 2024	46	11.89	99.48	6.4	33.29	8.0	25.3	0.66
I1	05 Nov 2024	47	11.88	99.42	6.3	33.30	8.0	25.3	0.64
I1	05 Nov 2024	48	11.85	99.35	6.3	33.30	8.0	25.3	0.60
I1	05 Nov 2024	49	11.84	99.25	6.2	33.31	8.0	25.3	0.61
I1	05 Nov 2024	50	11.84	99.20	6.2	33.31	8.0	25.3	0.58
I1	05 Nov 2024	51	11.82	99.19	6.1	33.32	8.0	25.3	0.57
I1	05 Nov 2024	52	11.80	98.69	6.1	33.32	8.0	25.3	0.54
I1	05 Nov 2024	53	11.80	99.06	6.0	33.32	8.0	25.3	0.53
I1	05 Nov 2024	54	11.75	99.08	5.9	33.34	8.0	25.3	0.53

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I1	05 Nov 2024	55	11.71	98.81	5.8	33.35	8.0	25.4	0.50
I1	05 Nov 2024	56	11.61	98.54	5.7	33.37	7.9	25.4	0.46
I1	05 Nov 2024	57	11.58	98.39	5.6	33.38	7.9	25.4	0.44
I1	05 Nov 2024	58	11.52	98.25	5.6	33.39	7.9	25.4	0.41
I1	05 Nov 2024	59	11.45	97.94	5.5	33.41	7.9	25.5	0.37
I1	05 Nov 2024	60	11.44	98.09	5.4	33.41	7.9	25.5	0.35
I2	05 Nov 2024	1	16.60	92.42	9.1	33.34	8.3	24.3	0.98
I2	05 Nov 2024	2	16.58	92.70	9.1	33.34	8.3	24.3	0.95
I2	05 Nov 2024	3	16.56	92.15	9.1	33.34	8.3	24.3	1.14
I2	05 Nov 2024	4	16.55	90.76	9.1	33.34	8.3	24.3	1.54
I2	05 Nov 2024	5	16.54	90.17	9.1	33.34	8.3	24.4	2.34
I2	05 Nov 2024	6	16.51	89.48	9.0	33.34	8.3	24.4	3.33
I2	05 Nov 2024	7	16.32	88.77	8.7	33.34	8.3	24.4	2.84
I2	05 Nov 2024	8	15.91	91.03	8.1	33.33	8.2	24.5	1.92
I2	05 Nov 2024	9	15.11	92.38	7.6	33.30	8.2	24.6	1.38
I2	05 Nov 2024	10	14.78	93.76	7.1	33.28	8.1	24.7	1.00
I2	05 Nov 2024	11	14.00	95.51	7.0	33.23	8.1	24.8	1.03
I2	05 Nov 2024	12	13.86	95.81	6.9	33.22	8.0	24.8	1.16
I2	05 Nov 2024	13	13.72	95.65	6.8	33.21	8.0	24.9	1.47
I2	05 Nov 2024	14	13.61	94.91	6.8	33.21	8.0	24.9	1.88
I2	05 Nov 2024	15	13.41	94.14	6.7	33.22	8.0	24.9	2.13
I2	05 Nov 2024	16	13.28	94.49	6.7	33.22	8.0	25.0	2.08
I2	05 Nov 2024	17	13.18	95.23	6.7	33.22	8.0	25.0	1.79
I2	05 Nov 2024	18	13.06	95.86	6.7	33.23	8.0	25.0	1.56
I2	05 Nov 2024	19	12.95	96.41	6.6	33.23	8.0	25.0	1.34
I2	05 Nov 2024	20	12.85	97.11	6.6	33.23	8.0	25.1	1.23
I2	05 Nov 2024	21	12.78	97.43	6.6	33.23	8.0	25.1	1.17
I2	05 Nov 2024	22	12.74	97.71	6.6	33.24	8.0	25.1	1.08
I2	05 Nov 2024	23	12.64	97.84	6.6	33.24	8.0	25.1	1.07
I2	05 Nov 2024	24	12.57	98.07	6.6	33.25	8.0	25.1	1.02
I2	05 Nov 2024	25	12.48	98.10	6.5	33.26	8.0	25.1	0.95
I2	05 Nov 2024	26	12.38	98.26	6.5	33.26	8.0	25.2	0.96
I2	05 Nov 2024	27	12.36	98.39	6.5	33.26	8.0	25.2	0.94
I2	05 Nov 2024	28	12.33	98.48	6.4	33.27	8.0	25.2	0.93
I2	05 Nov 2024	29	12.19	98.22	6.2	33.29	8.0	25.2	0.88
I2	05 Nov 2024	30	12.02	98.09	6.1	33.31	8.0	25.3	0.84
I2	05 Nov 2024	31	11.88	98.29	6.0	33.33	8.0	25.3	0.77
I2	05 Nov 2024	32	11.79	98.11	5.9	33.34	8.0	25.3	0.71
I6	05 Nov 2024	1	15.70	78.95	9.5	33.27	8.3	24.5	3.08
I6	05 Nov 2024	2	15.63	78.15	9.5	33.27	8.3	24.5	3.05
I6	05 Nov 2024	3	15.49	76.92	9.3	33.27	8.3	24.5	3.60
I6	05 Nov 2024	4	15.41	77.86	9.2	33.27	8.2	24.5	4.74
I6	05 Nov 2024	5	15.36	80.23	9.0	33.26	8.2	24.6	5.26
I6	05 Nov 2024	6	15.27	82.37	8.7	33.27	8.2	24.6	4.37
I6	05 Nov 2024	7	15.18	85.86	8.3	33.27	8.2	24.6	3.35
I6	05 Nov 2024	8	14.79	88.97	7.8	33.30	8.2	24.7	2.47
I6	05 Nov 2024	9	14.58	91.39	7.5	33.27	8.1	24.7	1.83
I6	05 Nov 2024	10	14.25	93.27	7.2	33.28	8.1	24.8	1.58
I6	05 Nov 2024	11	13.65	93.80	7.1	33.27	8.1	24.9	1.49
I6	05 Nov 2024	12	13.32	94.54	7.0	33.26	8.1	25.0	1.44
I6	05 Nov 2024	13	12.83	95.27	6.8	33.27	8.0	25.1	1.35
I6	05 Nov 2024	14	12.54	96.20	6.7	33.25	8.0	25.1	1.26
I6	05 Nov 2024	15	12.50	97.08	6.6	33.25	8.0	25.1	1.18
I6	05 Nov 2024	16	12.45	97.43	6.5	33.25	8.0	25.1	1.18
I6	05 Nov 2024	17	12.33	97.65	6.5	33.26	8.0	25.2	1.12
I6	05 Nov 2024	18	12.09	97.94	6.5	33.27	8.0	25.2	1.05
I6	05 Nov 2024	19	12.00	97.86	6.3	33.29	8.0	25.3	0.98
I6	05 Nov 2024	20	12.02	95.19	6.1	33.29	8.0	25.3	0.94
I6	05 Nov 2024	21	12.00	90.07	6.0	33.30	8.0	25.3	0.93

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I6	05 Nov 2024	22	12.00	87.71	6.0	33.30	8.0	25.3	0.94
I6	05 Nov 2024	23	12.00	86.92	5.9	33.30	8.0	25.3	0.96
I6	05 Nov 2024	24	12.00	84.22	5.9	33.30	8.0	25.3	0.97
I6	05 Nov 2024	25	12.00	78.70	5.9	33.30	8.0	25.3	1.02
I6	05 Nov 2024	26	12.00	74.83	5.9	33.31	8.0	25.3	1.05
I9	05 Nov 2024	1	15.92	91.86	8.4	33.30	8.2	24.5	0.61
I9	05 Nov 2024	2	15.83	91.66	8.4	33.29	8.2	24.5	0.78
I9	05 Nov 2024	3	15.80	91.11	8.4	33.29	8.2	24.5	1.02
I9	05 Nov 2024	4	15.76	90.29	8.5	33.29	8.2	24.5	1.26
I9	05 Nov 2024	5	15.74	89.27	8.5	33.28	8.2	24.5	1.56
I9	05 Nov 2024	6	15.73	88.90	8.4	33.28	8.2	24.5	1.87
I9	05 Nov 2024	7	15.71	89.40	8.4	33.28	8.2	24.5	2.03
I9	05 Nov 2024	8	15.64	90.49	8.2	33.28	8.2	24.5	1.73
I9	05 Nov 2024	9	15.17	92.25	7.6	33.30	8.2	24.6	1.33
I9	05 Nov 2024	10	13.87	94.29	7.1	33.28	8.1	24.9	1.05
I9	05 Nov 2024	11	13.28	95.56	6.8	33.25	8.0	25.0	0.93
I9	05 Nov 2024	12	12.93	96.38	6.6	33.25	8.0	25.1	0.81
I9	05 Nov 2024	13	12.61	96.75	6.5	33.26	8.0	25.1	0.83
I9	05 Nov 2024	14	12.40	97.21	6.4	33.26	8.0	25.2	0.81
I9	05 Nov 2024	15	12.23	97.78	6.3	33.27	8.0	25.2	0.79
I9	05 Nov 2024	16	12.01	98.02	6.3	33.28	8.0	25.3	0.76
I9	05 Nov 2024	17	11.93	98.13	6.2	33.29	8.0	25.3	0.73
I9	05 Nov 2024	18	11.96	97.11	6.0	33.30	8.0	25.3	0.67
I9	05 Nov 2024	19	11.91	96.03	6.0	33.31	8.0	25.3	0.70
I9	05 Nov 2024	20	11.87	95.66	5.9	33.32	8.0	25.3	0.66
I9	05 Nov 2024	21	11.83	94.66	5.8	33.33	8.0	25.3	0.68
I9	05 Nov 2024	22	11.79	94.60	5.8	33.34	8.0	25.3	0.63
I9	05 Nov 2024	23	11.78	94.90	5.8	33.34	8.0	25.3	0.67
I9	05 Nov 2024	24	11.76	95.54	5.8	33.35	8.0	25.4	0.67
I9	05 Nov 2024	25	11.75	95.68	5.7	33.35	8.0	25.4	0.67
I9	05 Nov 2024	26	11.74	95.07	5.7	33.35	8.0	25.4	0.68
I9	05 Nov 2024	27	11.74	94.27	5.7	33.35	8.0	25.4	0.70
I9	05 Nov 2024	28	11.74	93.82	5.6	33.35	8.0	25.4	0.72
I9	05 Nov 2024	29	11.74	93.19	5.6	33.35	8.0	25.4	0.70
I11	05 Nov 2024	1	14.65	74.09	8.4	33.22	8.2	24.7	1.47
I11	05 Nov 2024	2	14.56	73.69	8.4	33.24	8.2	24.7	1.68
I11	05 Nov 2024	3	14.35	69.26	8.2	33.25	8.1	24.8	3.18
I11	05 Nov 2024	4	14.12	62.70	7.7	33.26	8.1	24.8	6.20
I11	05 Nov 2024	5	13.99	60.05	7.2	33.26	8.1	24.8	6.90
I11	05 Nov 2024	6	13.34	68.71	7.0	33.30	8.1	25.0	5.22
I11	05 Nov 2024	7	12.92	82.55	6.8	33.27	8.0	25.1	3.58
I11	05 Nov 2024	8	12.70	91.00	6.7	33.25	8.0	25.1	2.29
I11	05 Nov 2024	9	12.52	93.77	6.6	33.25	8.0	25.1	1.68
I11	05 Nov 2024	10	12.36	95.71	6.5	33.26	8.0	25.2	1.39
I11	05 Nov 2024	11	12.30	95.59	6.3	33.27	8.0	25.2	1.26
I11	05 Nov 2024	12	12.30	93.35	6.2	33.27	8.0	25.2	1.23
I11	05 Nov 2024	13	12.30	88.70	6.1	33.27	8.0	25.2	1.15
I10	05 Nov 2024	1	15.15	84.30	7.8	33.27	8.2	24.6	0.63
I10	05 Nov 2024	2	15.16	87.08	8.0	33.26	8.2	24.6	0.63
I10	05 Nov 2024	3	15.08	88.09	8.1	33.29	8.2	24.6	0.66
I10	05 Nov 2024	4	14.97	87.53	8.1	33.27	8.2	24.6	0.84
I10	05 Nov 2024	5	14.94	85.66	8.1	33.26	8.2	24.6	1.40
I10	05 Nov 2024	6	14.94	84.63	8.1	33.26	8.2	24.6	1.87
I10	05 Nov 2024	7	14.91	84.46	8.1	33.27	8.2	24.7	2.34
I10	05 Nov 2024	8	14.79	84.88	8.0	33.27	8.2	24.7	2.76
I10	05 Nov 2024	9	14.66	85.40	7.9	33.27	8.2	24.7	2.97
I10	05 Nov 2024	10	14.50	85.66	7.7	33.28	8.1	24.8	2.83
I10	05 Nov 2024	11	13.90	87.25	7.3	33.31	8.1	24.9	2.38

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I10	05 Nov 2024	12	13.10	89.77	7.0	33.31	8.1	25.1	1.90
I10	05 Nov 2024	13	12.53	92.66	6.8	33.27	8.0	25.1	1.63
I10	05 Nov 2024	14	12.38	95.32	6.6	33.25	8.0	25.2	1.34
I10	05 Nov 2024	15	12.33	96.72	6.6	33.24	8.0	25.2	1.14
I10	05 Nov 2024	16	12.51	97.35	6.5	33.24	8.0	25.1	1.07
I10	05 Nov 2024	17	12.10	97.55	6.5	33.28	8.0	25.2	1.03
I10	05 Nov 2024	18	12.06	97.26	6.3	33.28	8.0	25.2	1.08
I10	05 Nov 2024	19	12.03	93.61	6.2	33.30	8.0	25.3	1.11
I7	05 Nov 2024	1	16.54	94.20	8.7	33.35	8.2	24.4	0.76
I7	05 Nov 2024	2	16.53	94.12	8.7	33.35	8.2	24.4	0.81
I7	05 Nov 2024	3	16.53	87.49	8.7	33.35	8.2	24.4	0.85
I7	05 Nov 2024	4	16.53	92.77	8.7	33.35	8.2	24.4	0.93
I7	05 Nov 2024	5	16.53	94.22	8.7	33.35	8.2	24.4	1.17
I7	05 Nov 2024	6	16.53	94.29	8.7	33.35	8.2	24.4	1.39
I7	05 Nov 2024	7	16.53	94.24	8.7	33.35	8.2	24.4	1.67
I7	05 Nov 2024	8	16.53	94.10	8.7	33.35	8.2	24.4	1.83
I7	05 Nov 2024	9	16.52	94.00	8.6	33.35	8.2	24.4	1.84
I7	05 Nov 2024	10	16.30	94.02	8.2	33.34	8.2	24.4	1.62
I7	05 Nov 2024	11	15.38	94.56	7.9	33.32	8.2	24.6	1.32
I7	05 Nov 2024	12	14.73	95.85	7.7	33.26	8.1	24.7	1.28
I7	05 Nov 2024	13	14.54	96.28	7.6	33.25	8.1	24.7	1.31
I7	05 Nov 2024	14	14.40	95.91	7.6	33.23	8.1	24.7	1.27
I7	05 Nov 2024	15	14.40	96.18	7.6	33.23	8.1	24.7	1.21
I7	05 Nov 2024	16	14.28	96.26	7.6	33.24	8.1	24.8	1.11
I7	05 Nov 2024	17	14.11	96.29	7.5	33.23	8.1	24.8	1.13
I7	05 Nov 2024	18	13.76	96.62	7.3	33.24	8.1	24.9	1.11
I7	05 Nov 2024	19	13.70	96.63	7.0	33.22	8.0	24.9	1.18
I7	05 Nov 2024	20	13.18	96.68	6.9	33.25	8.0	25.0	1.26
I7	05 Nov 2024	21	12.94	96.76	6.8	33.23	8.0	25.0	1.44
I7	05 Nov 2024	22	12.91	96.65	6.7	33.23	8.0	25.0	1.58
I7	05 Nov 2024	23	12.89	96.41	6.7	33.23	8.0	25.0	1.61
I7	05 Nov 2024	24	12.87	96.37	6.6	33.23	8.0	25.0	1.70
I7	05 Nov 2024	25	12.68	96.20	6.6	33.24	8.0	25.1	1.91
I7	05 Nov 2024	26	12.47	95.80	6.6	33.25	8.0	25.1	2.11
I7	05 Nov 2024	27	12.38	95.67	6.6	33.25	8.0	25.2	1.93
I7	05 Nov 2024	28	12.31	96.63	6.6	33.26	8.0	25.2	1.46
I7	05 Nov 2024	29	12.22	97.86	6.6	33.26	8.0	25.2	1.07
I7	05 Nov 2024	30	12.13	98.65	6.6	33.26	8.0	25.2	0.87
I7	05 Nov 2024	31	12.11	99.02	6.6	33.26	8.0	25.2	0.77
I7	05 Nov 2024	32	12.05	99.21	6.5	33.27	8.0	25.2	0.70
I7	05 Nov 2024	33	11.95	99.24	6.3	33.29	8.0	25.3	0.64
I7	05 Nov 2024	34	11.90	99.15	6.1	33.31	8.0	25.3	0.56
I7	05 Nov 2024	35	11.88	99.04	6.0	33.31	8.0	25.3	0.51
I7	05 Nov 2024	36	11.87	99.03	6.0	33.31	8.0	25.3	0.49
I7	05 Nov 2024	37	11.86	99.03	6.0	33.32	8.0	25.3	0.49
I7	05 Nov 2024	38	11.85	99.01	6.0	33.32	8.0	25.3	0.48
I7	05 Nov 2024	39	11.85	98.91	5.9	33.32	8.0	25.3	0.47
I7	05 Nov 2024	40	11.84	99.01	5.9	33.32	8.0	25.3	0.47
I7	05 Nov 2024	41	11.83	98.99	5.9	33.33	8.0	25.3	0.47
I7	05 Nov 2024	42	11.82	98.98	5.9	33.33	8.0	25.3	0.47
I7	05 Nov 2024	43	11.80	99.01	5.9	33.33	8.0	25.3	0.46
I7	05 Nov 2024	44	11.80	98.93	5.9	33.33	8.0	25.3	0.45
I7	05 Nov 2024	45	11.78	98.89	5.8	33.34	8.0	25.3	0.45
I7	05 Nov 2024	46	11.63	98.84	5.8	33.36	7.9	25.4	0.42
I7	05 Nov 2024	47	11.54	99.02	5.8	33.37	7.9	25.4	0.43
I7	05 Nov 2024	48	11.45	99.19	5.7	33.39	7.9	25.4	0.41
I7	05 Nov 2024	49	11.41	98.69	5.6	33.40	7.9	25.5	0.38
I7	05 Nov 2024	50	11.40	98.09	5.5	33.40	7.9	25.5	0.38
I7	05 Nov 2024	51	11.39	97.45	5.5	33.41	7.9	25.5	0.36
I7	05 Nov 2024	52	11.40	97.21	5.5	33.40	7.9	25.5	0.37

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I8	05 Nov 2024	1	16.11	91.42	8.0	33.38	8.3	24.5	0.72
I8	05 Nov 2024	2	16.06	91.26	8.3	33.34	8.3	24.5	0.73
I8	05 Nov 2024	3	16.02	86.39	8.7	33.31	8.3	24.4	0.74
I8	05 Nov 2024	4	15.95	82.53	8.7	33.34	8.3	24.5	0.73
I8	05 Nov 2024	5	15.80	85.89	8.4	33.39	8.2	24.6	0.76
I8	05 Nov 2024	6	15.41	90.00	8.1	33.57	8.2	24.8	0.93
I8	05 Nov 2024	7	15.04	90.50	8.1	33.50	8.1	24.8	1.88
I8	05 Nov 2024	8	14.24	91.85	7.6	33.52	8.1	25.0	2.30
I8	05 Nov 2024	9	13.20	93.45	7.1	33.47	8.1	25.2	2.11
I8	05 Nov 2024	10	12.99	95.37	6.7	33.31	8.0	25.1	1.66
I8	05 Nov 2024	11	12.85	96.69	6.6	33.27	8.0	25.1	1.23
I8	05 Nov 2024	12	12.80	97.11	6.5	33.26	8.0	25.1	1.01
I8	05 Nov 2024	13	12.74	97.29	6.5	33.26	8.0	25.1	0.95
I8	05 Nov 2024	14	12.64	97.55	6.5	33.27	8.0	25.1	0.84
I8	05 Nov 2024	15	12.48	97.81	6.4	33.27	8.0	25.2	0.76
I8	05 Nov 2024	16	12.33	98.43	6.5	33.27	8.0	25.2	0.75
I8	05 Nov 2024	17	12.32	98.58	6.5	33.26	8.0	25.2	0.75
I8	05 Nov 2024	18	12.32	98.56	6.5	33.26	8.0	25.2	0.79
I8	05 Nov 2024	19	12.30	98.67	6.4	33.26	8.0	25.2	0.78
I8	05 Nov 2024	20	12.29	98.69	6.4	33.26	8.0	25.2	0.85
I8	05 Nov 2024	21	12.28	98.67	6.4	33.27	8.0	25.2	0.81
I8	05 Nov 2024	22	12.25	98.69	6.3	33.28	8.0	25.2	0.78
I8	05 Nov 2024	23	12.12	98.72	6.2	33.30	8.0	25.2	0.78
I8	05 Nov 2024	24	12.04	98.47	6.1	33.31	8.0	25.3	0.76
I8	05 Nov 2024	25	11.93	98.27	6.0	33.32	8.0	25.3	0.81
I8	05 Nov 2024	26	11.88	98.24	6.0	33.32	8.0	25.3	0.77
I8	05 Nov 2024	27	11.82	98.38	6.0	33.33	8.0	25.3	0.74
I8	05 Nov 2024	28	11.74	98.60	6.0	33.34	8.0	25.4	0.71
I8	05 Nov 2024	29	11.70	98.53	5.9	33.35	8.0	25.4	0.69
I8	05 Nov 2024	30	11.64	98.36	5.8	33.37	8.0	25.4	0.65
I8	05 Nov 2024	31	11.59	98.18	5.7	33.38	8.0	25.4	0.59
I8	05 Nov 2024	32	11.56	97.87	5.6	33.38	8.0	25.4	0.57
I8	05 Nov 2024	33	11.55	97.09	5.6	33.38	7.9	25.4	0.55
I8	05 Nov 2024	34	11.55	96.15	5.5	33.38	7.9	25.4	0.52
I8	05 Nov 2024	35	11.55	95.80	5.5	33.38	7.9	25.4	0.53
I8	05 Nov 2024	36	11.55	95.42	5.5	33.38	7.9	25.4	0.54
I12	06 Nov 2024	1	15.97	93.70	8.7	33.31	8.3	24.5	0.48
I12	06 Nov 2024	2	15.99	93.66	8.7	33.31	8.3	24.5	0.49
I12	06 Nov 2024	3	15.91	93.73	8.6	33.31	8.2	24.5	0.47
I12	06 Nov 2024	4	15.87	93.25	8.6	33.30	8.2	24.5	0.58
I12	06 Nov 2024	5	15.85	92.84	8.6	33.30	8.2	24.5	0.70
I12	06 Nov 2024	6	15.80	92.36	8.6	33.30	8.2	24.5	0.84
I12	06 Nov 2024	7	15.77	91.67	8.6	33.30	8.2	24.5	1.13
I12	06 Nov 2024	8	15.68	91.54	8.6	33.29	8.2	24.5	1.36
I12	06 Nov 2024	9	15.62	91.18	8.5	33.29	8.2	24.5	1.74
I12	06 Nov 2024	10	14.63	91.68	7.7	33.34	8.2	24.8	1.70
I12	06 Nov 2024	11	12.79	92.70	6.9	33.23	8.1	25.1	1.30
I12	06 Nov 2024	12	13.05	94.84	6.6	33.19	8.0	25.0	0.92
I12	06 Nov 2024	13	12.53	95.11	6.5	33.20	8.0	25.1	0.94
I12	06 Nov 2024	14	12.54	95.59	6.4	33.23	8.0	25.1	0.89
I12	06 Nov 2024	15	12.34	96.81	6.3	33.23	8.0	25.2	0.91
I12	06 Nov 2024	16	12.36	97.11	6.3	33.24	8.0	25.2	0.91
I12	06 Nov 2024	17	12.26	97.51	6.3	33.27	8.0	25.2	0.83
I12	06 Nov 2024	18	12.25	97.82	6.3	33.27	8.0	25.2	0.89
I12	06 Nov 2024	19	12.19	98.04	6.3	33.28	8.0	25.2	0.87
I12	06 Nov 2024	20	12.04	97.99	6.3	33.29	8.0	25.3	0.89
I12	06 Nov 2024	21	11.97	98.39	6.2	33.30	8.0	25.3	0.91
I12	06 Nov 2024	22	11.93	97.79	6.0	33.32	8.0	25.3	0.82
I12	06 Nov 2024	23	11.92	95.22	5.9	33.32	8.0	25.3	0.84

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I12	06 Nov 2024	24	11.92	93.68	5.8	33.32	8.0	25.3	0.88
I12	06 Nov 2024	25	11.85	93.30	5.8	33.34	8.0	25.3	0.87
I12	06 Nov 2024	26	11.76	92.09	5.6	33.36	8.0	25.4	0.84
I12	06 Nov 2024	27	11.77	90.14	5.6	33.35	7.9	25.4	0.81
I12	06 Nov 2024	28	11.74	89.10	5.5	33.36	7.9	25.4	0.78
I18	06 Nov 2024	1	14.69	79.40	8.2	33.23	8.2	24.7	0.90
I18	06 Nov 2024	2	14.58	79.27	8.1	33.24	8.2	24.7	0.93
I18	06 Nov 2024	3	14.42	78.79	8.0	33.25	8.1	24.7	1.21
I18	06 Nov 2024	4	14.32	79.85	7.8	33.26	8.1	24.8	1.96
I18	06 Nov 2024	5	14.05	82.62	7.5	33.29	8.1	24.9	2.71
I18	06 Nov 2024	6	13.15	84.87	7.0	33.28	8.1	25.0	2.39
I18	06 Nov 2024	7	12.75	87.72	6.6	33.27	8.0	25.1	1.64
I18	06 Nov 2024	8	12.32	91.63	6.4	33.27	8.0	25.2	1.20
I18	06 Nov 2024	9	12.20	93.74	6.3	33.27	8.0	25.2	1.04
I18	06 Nov 2024	10	12.19	93.93	6.3	33.27	8.0	25.2	1.02
I18	06 Nov 2024	11	12.14	94.14	6.3	33.27	8.0	25.2	1.01
I18	06 Nov 2024	12	12.10	94.92	6.2	33.28	8.0	25.2	1.02
I18	06 Nov 2024	13	12.04	93.61	6.0	33.30	8.0	25.3	1.06
I18	06 Nov 2024	14	12.02	91.25	5.9	33.30	8.0	25.3	1.12
I18	06 Nov 2024	15	12.03	90.25	5.9	33.30	8.0	25.3	1.12
I18	06 Nov 2024	16	12.02	89.67	5.8	33.31	8.0	25.3	1.12
I18	06 Nov 2024	17	12.02	89.42	5.8	33.31	8.0	25.3	1.08
I18	06 Nov 2024	18	12.01	89.22	5.8	33.31	8.0	25.3	1.08
I18	06 Nov 2024	19	12.00	88.39	5.7	33.31	8.0	25.3	1.13
I13	06 Nov 2024	1	16.81	93.93	9.6	33.34	8.3	24.3	0.45
I13	06 Nov 2024	2	16.74	93.85	9.6	33.34	8.3	24.3	0.47
I13	06 Nov 2024	3	16.59	93.38	9.8	33.34	8.3	24.3	0.64
I13	06 Nov 2024	4	16.55	90.47	9.9	33.34	8.4	24.3	1.08
I13	06 Nov 2024	5	16.51	88.90	9.9	33.34	8.4	24.4	1.49
I13	06 Nov 2024	6	16.15	90.78	9.3	33.33	8.3	24.4	1.37
I13	06 Nov 2024	7	15.63	93.42	8.3	33.31	8.2	24.5	1.16
I13	06 Nov 2024	8	14.37	94.50	7.2	33.32	8.1	24.8	0.97
I13	06 Nov 2024	9	13.67	95.94	6.7	33.28	8.0	24.9	0.76
I13	06 Nov 2024	10	12.90	95.85	6.7	33.26	8.0	25.1	1.01
I13	06 Nov 2024	11	12.78	95.14	6.7	33.24	8.0	25.1	1.54
I13	06 Nov 2024	12	12.56	96.24	6.6	33.25	8.0	25.1	1.36
I13	06 Nov 2024	13	12.43	97.20	6.5	33.25	8.0	25.1	0.88
I13	06 Nov 2024	14	12.39	97.60	6.5	33.25	8.0	25.2	0.81
I13	06 Nov 2024	15	12.39	97.57	6.5	33.26	8.0	25.2	0.78
I13	06 Nov 2024	16	12.40	97.55	6.4	33.27	8.0	25.2	0.80
I13	06 Nov 2024	17	12.36	97.63	6.4	33.27	8.0	25.2	0.81
I13	06 Nov 2024	18	12.35	97.58	6.3	33.27	8.0	25.2	0.80
I13	06 Nov 2024	19	12.35	97.52	6.3	33.28	8.0	25.2	0.85
I13	06 Nov 2024	20	12.34	97.59	6.3	33.28	8.0	25.2	0.84
I13	06 Nov 2024	21	12.27	97.65	6.2	33.29	8.0	25.2	0.88
I13	06 Nov 2024	22	12.22	97.60	6.1	33.30	8.0	25.2	0.84
I13	06 Nov 2024	23	12.04	97.76	6.1	33.32	8.0	25.3	0.74
I13	06 Nov 2024	24	11.92	98.30	6.0	33.32	8.0	25.3	0.64
I13	06 Nov 2024	25	11.85	98.50	5.9	33.33	8.0	25.3	0.59
I13	06 Nov 2024	26	11.79	98.52	5.8	33.34	8.0	25.3	0.56
I13	06 Nov 2024	27	11.71	98.57	5.8	33.35	8.0	25.4	0.53
I13	06 Nov 2024	28	11.63	98.53	5.7	33.36	8.0	25.4	0.49
I13	06 Nov 2024	29	11.60	98.70	5.7	33.36	8.0	25.4	0.47
I13	06 Nov 2024	30	11.55	98.70	5.7	33.37	8.0	25.4	0.46
I13	06 Nov 2024	31	11.51	98.60	5.6	33.38	7.9	25.4	0.44
I13	06 Nov 2024	32	11.45	98.22	5.5	33.40	7.9	25.4	0.42
I13	06 Nov 2024	33	11.45	97.86	5.4	33.40	7.9	25.4	0.40
I13	06 Nov 2024	34	11.44	97.72	5.4	33.40	7.9	25.4	0.40
I13	06 Nov 2024	35	11.44	97.70	5.4	33.40	7.9	25.4	0.40

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I13	06 Nov 2024	36	11.44	97.69	5.4	33.40	7.9	25.4	0.38
I13	06 Nov 2024	37	11.44	97.69	5.4	33.40	7.9	25.4	0.39
I13	06 Nov 2024	38	11.44	97.57	5.4	33.40	7.9	25.5	0.40
I15	06 Nov 2024	1	16.55	93.66	9.4	33.34	8.3	24.4	0.46
I15	06 Nov 2024	2	16.29	93.57	9.3	33.36	8.3	24.4	0.45
I15	06 Nov 2024	3	16.10	93.37	9.1	33.34	8.3	24.4	0.47
I15	06 Nov 2024	4	15.78	93.30	8.6	33.34	8.3	24.5	0.51
I15	06 Nov 2024	5	14.99	93.43	8.2	33.34	8.2	24.7	0.54
I15	06 Nov 2024	6	14.75	94.75	7.8	33.26	8.1	24.7	0.61
I15	06 Nov 2024	7	14.39	95.48	7.6	33.33	8.1	24.8	0.62
I15	06 Nov 2024	8	13.87	95.33	7.3	33.26	8.1	24.9	0.72
I15	06 Nov 2024	9	13.75	94.41	7.1	33.24	8.1	24.9	0.86
I15	06 Nov 2024	10	13.84	93.85	7.1	33.23	8.1	24.9	1.02
I15	06 Nov 2024	11	13.64	93.33	7.0	33.24	8.1	24.9	1.12
I15	06 Nov 2024	12	13.44	93.50	6.9	33.23	8.1	24.9	1.22
I15	06 Nov 2024	13	13.09	93.70	6.7	33.22	8.0	25.0	1.24
I15	06 Nov 2024	14	12.79	93.70	6.4	33.21	8.0	25.0	1.16
I15	06 Nov 2024	15	12.16	93.64	6.2	33.21	8.0	25.2	1.01
I15	06 Nov 2024	16	12.02	93.87	6.0	33.20	8.0	25.2	0.79
I15	06 Nov 2024	17	12.06	94.71	6.1	33.23	8.0	25.2	0.75
I15	06 Nov 2024	18	12.13	95.71	6.2	33.27	8.0	25.2	0.78
I15	06 Nov 2024	19	12.09	96.82	6.2	33.29	8.0	25.2	0.80
I15	06 Nov 2024	20	12.06	97.52	6.2	33.30	8.0	25.3	0.84
I15	06 Nov 2024	21	12.03	97.94	6.2	33.30	8.0	25.3	0.85
I15	06 Nov 2024	22	12.01	98.16	6.2	33.30	8.0	25.3	0.97
I15	06 Nov 2024	23	11.96	98.21	6.2	33.31	8.0	25.3	0.91
I15	06 Nov 2024	24	11.90	98.12	6.1	33.32	8.0	25.3	0.91
I15	06 Nov 2024	25	11.87	98.15	6.0	33.32	8.0	25.3	0.90
I15	06 Nov 2024	26	11.84	98.01	6.0	33.33	8.0	25.3	0.91
I15	06 Nov 2024	27	11.80	97.96	5.9	33.34	8.0	25.3	0.86
I15	06 Nov 2024	28	11.69	97.45	5.7	33.37	8.0	25.4	0.80
I15	06 Nov 2024	29	11.66	95.35	5.6	33.37	7.9	25.4	0.77
I15	06 Nov 2024	30	11.65	93.18	5.5	33.37	7.9	25.4	0.73
I15	06 Nov 2024	31	11.66	92.32	5.5	33.37	7.9	25.4	0.72
I16	06 Nov 2024	1	16.05	94.10	8.7	33.32	8.3	24.4	0.43
I16	06 Nov 2024	2	16.02	94.03	8.7	33.32	8.3	24.4	0.43
I16	06 Nov 2024	3	15.96	93.58	8.7	33.31	8.3	24.5	0.50
I16	06 Nov 2024	4	15.96	93.27	8.7	33.31	8.3	24.5	0.61
I16	06 Nov 2024	5	15.88	93.11	8.7	33.31	8.3	24.5	0.68
I16	06 Nov 2024	6	15.80	92.12	8.6	33.30	8.2	24.5	0.88
I16	06 Nov 2024	7	15.71	90.90	8.6	33.29	8.2	24.5	1.37
I16	06 Nov 2024	8	15.65	90.34	8.6	33.29	8.2	24.5	1.73
I16	06 Nov 2024	9	15.61	89.87	8.6	33.28	8.2	24.5	2.26
I16	06 Nov 2024	10	15.52	90.03	8.4	33.29	8.2	24.5	2.35
I16	06 Nov 2024	11	15.23	91.01	8.2	33.27	8.2	24.6	2.26
I16	06 Nov 2024	12	13.95	92.14	7.4	33.30	8.2	24.9	1.90
I16	06 Nov 2024	13	13.01	93.92	6.8	33.18	8.0	25.0	1.28
I16	06 Nov 2024	14	12.97	94.22	6.6	33.17	8.0	25.0	1.03
I16	06 Nov 2024	15	12.92	94.38	6.5	33.18	8.0	25.0	0.98
I16	06 Nov 2024	16	12.47	94.56	6.3	33.19	8.0	25.1	0.90
I16	06 Nov 2024	17	12.32	95.76	6.3	33.23	8.0	25.2	0.91
I16	06 Nov 2024	18	12.21	97.20	6.3	33.26	8.0	25.2	0.97
I16	06 Nov 2024	19	12.09	97.85	6.3	33.28	8.0	25.2	0.95
I16	06 Nov 2024	20	11.97	97.67	6.2	33.30	8.0	25.3	0.89
I16	06 Nov 2024	21	11.93	98.07	6.1	33.31	8.0	25.3	0.86
I16	06 Nov 2024	22	11.91	96.79	5.9	33.32	8.0	25.3	0.85
I16	06 Nov 2024	23	11.90	94.07	5.8	33.33	8.0	25.3	0.86
I16	06 Nov 2024	24	11.76	91.74	5.7	33.35	8.0	25.4	0.87
I16	06 Nov 2024	25	11.74	89.42	5.6	33.36	7.9	25.4	0.81

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I16	06 Nov 2024	26	11.74	86.43	5.5	33.36	7.9	25.4	0.75
I17	06 Nov 2024	1	15.64	88.67	8.7	33.28	8.2	24.5	1.19
I17	06 Nov 2024	2	15.63	88.69	8.7	33.28	8.2	24.5	1.19
I17	06 Nov 2024	3	15.60	87.74	8.7	33.28	8.2	24.5	1.34
I17	06 Nov 2024	4	15.57	85.67	8.8	33.28	8.2	24.5	2.08
I17	06 Nov 2024	5	15.54	83.83	8.8	33.28	8.2	24.5	3.90
I17	06 Nov 2024	6	15.49	83.14	8.8	33.28	8.2	24.5	5.57
I17	06 Nov 2024	7	15.48	83.28	8.8	33.28	8.2	24.5	6.57
I17	06 Nov 2024	8	15.48	83.28	8.8	33.28	8.2	24.5	6.93
I17	06 Nov 2024	9	15.48	83.76	8.8	33.28	8.2	24.5	6.69
I17	06 Nov 2024	10	15.45	83.82	8.7	33.28	8.2	24.6	6.43
I17	06 Nov 2024	11	15.43	83.65	8.6	33.28	8.2	24.6	6.26
I17	06 Nov 2024	12	15.42	84.14	8.5	33.28	8.2	24.6	6.08
I17	06 Nov 2024	13	15.41	84.91	8.5	33.28	8.2	24.6	5.88
I17	06 Nov 2024	14	15.41	85.00	8.4	33.28	8.2	24.6	5.83
I17	06 Nov 2024	15	15.08	85.82	8.0	33.31	8.2	24.7	5.07
I17	06 Nov 2024	16	13.83	88.79	7.4	33.26	8.1	24.9	3.32
I17	06 Nov 2024	17	13.43	92.76	7.1	33.22	8.1	24.9	1.91
I17	06 Nov 2024	18	13.45	94.39	6.8	33.26	8.1	25.0	1.68
I17	06 Nov 2024	19	12.39	95.05	6.6	33.23	8.0	25.1	1.43
I17	06 Nov 2024	20	12.32	96.39	6.4	33.25	8.0	25.2	1.14
I17	06 Nov 2024	21	12.23	97.46	6.4	33.26	8.0	25.2	1.10
I17	06 Nov 2024	22	11.98	98.10	6.3	33.29	8.0	25.3	1.00
I17	06 Nov 2024	23	11.91	96.98	6.0	33.31	8.0	25.3	0.95
I17	06 Nov 2024	24	11.88	94.29	5.8	33.32	8.0	25.3	0.89
I17	06 Nov 2024	25	11.85	86.19	5.7	33.33	8.0	25.3	0.87
I14	06 Nov 2024	1	16.00	93.76	8.7	33.31	8.3	24.4	0.55
I14	06 Nov 2024	2	15.98	93.79	8.7	33.31	8.3	24.5	0.51
I14	06 Nov 2024	3	15.89	93.30	8.7	33.31	8.3	24.5	0.57
I14	06 Nov 2024	4	15.84	92.65	8.6	33.30	8.2	24.5	0.69
I14	06 Nov 2024	5	15.81	92.24	8.6	33.30	8.2	24.5	0.86
I14	06 Nov 2024	6	15.78	91.85	8.6	33.30	8.2	24.5	1.03
I14	06 Nov 2024	7	15.70	91.31	8.6	33.29	8.2	24.5	1.25
I14	06 Nov 2024	8	15.62	90.96	8.5	33.29	8.2	24.5	1.66
I14	06 Nov 2024	9	15.56	90.24	8.5	33.28	8.2	24.5	2.31
I14	06 Nov 2024	10	15.52	89.66	8.5	33.28	8.2	24.5	2.54
I14	06 Nov 2024	11	15.36	90.90	8.1	33.29	8.2	24.6	2.02
I14	06 Nov 2024	12	14.14	92.40	7.4	33.26	8.1	24.8	1.62
I14	06 Nov 2024	13	13.16	93.89	6.8	33.20	8.1	25.0	1.28
I14	06 Nov 2024	14	12.82	94.80	6.6	33.19	8.0	25.0	0.97
I14	06 Nov 2024	15	12.72	95.54	6.4	33.19	8.0	25.0	0.81
I14	06 Nov 2024	16	12.23	95.72	6.2	33.19	8.0	25.1	0.80
I14	06 Nov 2024	17	12.17	95.96	6.1	33.20	8.0	25.2	0.78
I14	06 Nov 2024	18	12.07	96.49	6.1	33.23	8.0	25.2	0.78
I14	06 Nov 2024	19	12.04	96.85	6.1	33.25	8.0	25.2	0.82
I14	06 Nov 2024	20	12.01	97.11	6.1	33.27	8.0	25.2	0.83
I14	06 Nov 2024	21	11.92	97.24	6.0	33.31	8.0	25.3	0.84
I14	06 Nov 2024	22	11.94	95.96	6.0	33.31	8.0	25.3	0.85
I14	06 Nov 2024	23	11.80	95.17	5.8	33.34	8.0	25.3	0.89
I14	06 Nov 2024	24	11.76	95.25	5.7	33.35	8.0	25.3	0.77
I14	06 Nov 2024	25	11.73	94.97	5.6	33.35	8.0	25.4	0.72
I14	06 Nov 2024	26	11.71	93.98	5.6	33.36	7.9	25.4	0.68
I14	06 Nov 2024	27	11.70	92.02	5.5	33.36	7.9	25.4	0.66
I14	06 Nov 2024	28	11.70	90.08	5.5	33.36	7.9	25.4	0.67
I23	06 Nov 2024	1	15.51	88.22	9.0	33.29	8.2	24.5	0.60
I23	06 Nov 2024	2	15.35	88.05	8.9	33.30	8.2	24.6	0.63
I23	06 Nov 2024	3	15.03	87.58	8.4	33.31	8.2	24.7	0.92
I23	06 Nov 2024	4	13.54	86.76	7.5	33.30	8.1	25.0	1.31

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I23	06 Nov 2024	5	13.20	87.20	6.8	33.25	8.0	25.0	1.11
I23	06 Nov 2024	6	13.00	89.16	6.7	33.25	8.0	25.0	1.04
I23	06 Nov 2024	7	12.77	91.25	6.6	33.26	8.0	25.1	1.01
I23	06 Nov 2024	8	12.75	92.15	6.5	33.25	8.0	25.1	1.09
I23	06 Nov 2024	9	12.65	92.40	6.4	33.27	8.0	25.1	1.07
I23	06 Nov 2024	10	12.51	92.03	6.3	33.27	8.0	25.1	1.10
I23	06 Nov 2024	11	12.44	91.53	6.2	33.28	8.0	25.2	1.09
I23	06 Nov 2024	12	12.42	90.98	6.2	33.28	8.0	25.2	1.09
I23	06 Nov 2024	13	12.30	91.27	6.1	33.28	8.0	25.2	1.10
I23	06 Nov 2024	14	12.18	92.44	6.2	33.28	8.0	25.2	1.14
I23	06 Nov 2024	15	12.19	94.13	6.1	33.29	8.0	25.2	1.17
I23	06 Nov 2024	16	11.99	94.48	6.0	33.30	8.0	25.3	1.18
I23	06 Nov 2024	17	11.97	93.27	5.9	33.31	8.0	25.3	1.02
I23	06 Nov 2024	18	11.97	90.75	5.8	33.31	8.0	25.3	0.98
I23	06 Nov 2024	19	11.96	90.56	5.8	33.32	8.0	25.3	0.95
I23	06 Nov 2024	20	11.96	90.53	5.8	33.32	8.0	25.3	0.93
I23	06 Nov 2024	21	11.97	89.06	5.7	33.32	8.0	25.3	0.94
I22	06 Nov 2024	1	15.88	93.71	8.5	33.31	8.2	24.5	0.63
I22	06 Nov 2024	2	15.88	93.66	8.5	33.31	8.2	24.5	0.52
I22	06 Nov 2024	3	15.85	93.94	8.5	33.31	8.2	24.5	0.51
I22	06 Nov 2024	4	15.74	93.46	8.5	33.31	8.2	24.5	0.61
I22	06 Nov 2024	5	15.64	92.49	8.4	33.30	8.2	24.5	0.97
I22	06 Nov 2024	6	15.59	90.52	8.4	33.29	8.2	24.5	1.73
I22	06 Nov 2024	7	15.55	89.35	8.4	33.29	8.2	24.5	2.78
I22	06 Nov 2024	8	15.47	88.30	8.3	33.29	8.2	24.6	3.42
I22	06 Nov 2024	9	15.39	88.72	8.3	33.28	8.2	24.6	3.65
I22	06 Nov 2024	10	15.29	89.44	8.0	33.29	8.2	24.6	3.07
I22	06 Nov 2024	11	14.24	91.55	7.4	33.33	8.2	24.8	2.36
I22	06 Nov 2024	12	13.07	93.54	6.9	33.29	8.1	25.1	1.70
I22	06 Nov 2024	13	12.75	95.63	6.6	33.25	8.0	25.1	1.19
I22	06 Nov 2024	14	12.50	96.93	6.4	33.25	8.0	25.1	0.94
I22	06 Nov 2024	15	12.32	97.40	6.3	33.25	8.0	25.2	0.85
I22	06 Nov 2024	16	12.25	97.54	6.3	33.26	8.0	25.2	0.77
I22	06 Nov 2024	17	12.14	97.78	6.2	33.27	8.0	25.2	0.80
I22	06 Nov 2024	18	12.06	97.94	6.2	33.28	8.0	25.2	0.79
I22	06 Nov 2024	19	12.03	98.14	6.1	33.28	8.0	25.2	0.80
I22	06 Nov 2024	20	11.93	98.02	6.1	33.29	8.0	25.3	0.84
I22	06 Nov 2024	21	11.85	97.53	6.0	33.31	8.0	25.3	0.81
I22	06 Nov 2024	22	11.79	96.84	5.8	33.33	8.0	25.3	0.74
I22	06 Nov 2024	23	11.78	96.37	5.7	33.34	8.0	25.3	0.70
I22	06 Nov 2024	24	11.78	94.61	5.6	33.34	8.0	25.3	0.68
I22	06 Nov 2024	25	11.71	91.38	5.5	33.36	7.9	25.4	0.69
I22	06 Nov 2024	26	11.69	89.97	5.5	33.36	7.9	25.4	0.65
I22	06 Nov 2024	27	11.67	89.03	5.4	33.37	7.9	25.4	0.64
I22	06 Nov 2024	28	11.64	88.32	5.4	33.37	7.9	25.4	0.64
I20	06 Nov 2024	1	16.72	87.88	11.2	33.34	8.4	24.3	2.38
I20	06 Nov 2024	2	16.73	87.92	11.2	33.34	8.4	24.3	2.53
I20	06 Nov 2024	3	16.72	87.75	11.2	33.34	8.4	24.3	3.59
I20	06 Nov 2024	4	16.65	86.78	10.6	33.34	8.4	24.3	4.19
I20	06 Nov 2024	5	16.18	89.13	9.0	33.34	8.3	24.4	2.60
I20	06 Nov 2024	6	15.53	93.20	7.9	33.32	8.2	24.6	1.75
I20	06 Nov 2024	7	14.86	94.54	7.4	33.29	8.1	24.7	1.78
I20	06 Nov 2024	8	14.68	94.51	7.0	33.29	8.1	24.7	1.62
I20	06 Nov 2024	9	13.73	95.49	6.8	33.30	8.0	24.9	1.17
I20	06 Nov 2024	10	13.32	95.80	6.8	33.25	8.0	25.0	1.14
I20	06 Nov 2024	11	13.06	96.01	6.9	33.24	8.0	25.0	1.30
I20	06 Nov 2024	12	12.99	96.94	6.9	33.23	8.0	25.0	1.28
I20	06 Nov 2024	13	12.91	97.41	6.8	33.24	8.0	25.0	1.26
I20	06 Nov 2024	14	12.83	97.74	6.8	33.24	8.0	25.1	1.27

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I20	06 Nov 2024	15	12.78	97.78	6.7	33.24	8.0	25.1	1.24
I20	06 Nov 2024	16	12.70	97.83	6.7	33.24	8.0	25.1	1.19
I20	06 Nov 2024	17	12.68	97.81	6.7	33.24	8.0	25.1	1.17
I20	06 Nov 2024	18	12.54	97.75	6.6	33.26	8.0	25.1	1.18
I20	06 Nov 2024	19	12.42	97.66	6.5	33.26	8.0	25.2	1.14
I20	06 Nov 2024	20	12.40	97.38	6.5	33.26	8.0	25.2	1.08
I20	06 Nov 2024	21	12.30	97.68	6.5	33.27	8.0	25.2	1.06
I20	06 Nov 2024	22	12.21	98.34	6.5	33.27	8.0	25.2	0.95
I20	06 Nov 2024	23	12.19	98.49	6.5	33.27	8.0	25.2	0.91
I20	06 Nov 2024	24	12.14	98.52	6.4	33.27	8.0	25.2	0.85
I20	06 Nov 2024	25	12.06	98.75	6.4	33.28	8.0	25.2	0.81
I20	06 Nov 2024	26	12.03	98.97	6.4	33.29	8.0	25.3	0.77
I20	06 Nov 2024	27	11.96	99.17	6.3	33.30	8.0	25.3	0.71
I20	06 Nov 2024	28	11.92	99.25	6.3	33.30	8.0	25.3	0.65
I20	06 Nov 2024	29	11.78	99.36	6.3	33.32	8.0	25.3	0.59
I20	06 Nov 2024	30	11.71	99.38	6.2	33.32	8.0	25.3	0.55
I20	06 Nov 2024	31	11.64	99.29	6.0	33.34	8.0	25.4	0.50
I20	06 Nov 2024	32	11.62	99.12	5.9	33.34	7.9	25.4	0.45
I20	06 Nov 2024	33	11.61	99.00	5.8	33.34	7.9	25.4	0.42
I20	06 Nov 2024	34	11.59	98.99	5.8	33.34	7.9	25.4	0.42
I20	06 Nov 2024	35	11.58	98.71	5.8	33.34	7.9	25.4	0.42
I20	06 Nov 2024	36	11.57	98.99	5.8	33.35	7.9	25.4	0.44
I20	06 Nov 2024	37	11.57	99.10	5.8	33.35	7.9	25.4	0.43
I20	06 Nov 2024	38	11.55	99.15	5.8	33.35	7.9	25.4	0.43
I20	06 Nov 2024	39	11.53	99.17	5.8	33.35	7.9	25.4	0.43
I20	06 Nov 2024	40	11.49	99.22	5.8	33.36	7.9	25.4	0.43
I20	06 Nov 2024	41	11.47	99.13	5.8	33.36	7.9	25.4	0.42
I20	06 Nov 2024	42	11.48	99.03	5.8	33.36	7.9	25.4	0.41
I20	06 Nov 2024	43	11.47	99.25	5.7	33.36	7.9	25.4	0.39
I20	06 Nov 2024	44	11.46	99.27	5.7	33.36	7.9	25.4	0.39
I20	06 Nov 2024	45	11.45	99.22	5.7	33.37	7.9	25.4	0.39
I20	06 Nov 2024	46	11.42	99.20	5.6	33.37	7.9	25.4	0.36
I20	06 Nov 2024	47	11.38	99.16	5.6	33.38	7.9	25.4	0.37
I20	06 Nov 2024	48	11.38	99.05	5.5	33.38	7.9	25.4	0.31
I20	06 Nov 2024	49	11.31	99.04	5.4	33.41	7.9	25.5	0.27
I20	06 Nov 2024	50	11.32	98.93	5.4	33.40	7.9	25.5	0.26
I20	06 Nov 2024	51	11.27	98.86	5.3	33.42	7.9	25.5	0.23
I20	06 Nov 2024	52	11.23	98.82	5.2	33.43	7.9	25.5	0.21
I20	06 Nov 2024	53	11.18	98.56	5.2	33.44	7.9	25.5	0.20
I20	06 Nov 2024	54	11.14	98.30	5.1	33.46	7.9	25.5	0.19
I20	06 Nov 2024	55	11.11	98.10	5.0	33.46	7.9	25.6	0.19
I21	06 Nov 2024	1	16.49	81.40	9.7	33.34	8.3	24.4	4.15
I21	06 Nov 2024	2	16.49	80.10	9.7	33.34	8.3	24.4	4.77
I21	06 Nov 2024	3	16.47	77.71	9.6	33.34	8.3	24.4	7.62
I21	06 Nov 2024	4	16.34	77.37	9.1	33.35	8.3	24.4	8.99
I21	06 Nov 2024	5	15.77	84.63	8.4	33.37	8.3	24.5	5.60
I21	06 Nov 2024	6	14.80	91.81	7.7	33.35	8.2	24.7	3.58
I21	06 Nov 2024	7	14.17	93.81	7.3	33.29	8.1	24.8	2.55
I21	06 Nov 2024	8	13.86	94.15	7.0	33.27	8.1	24.9	2.61
I21	06 Nov 2024	9	13.67	94.75	6.9	33.26	8.0	24.9	2.02
I21	06 Nov 2024	10	13.30	95.62	6.6	33.27	8.0	25.0	1.69
I21	06 Nov 2024	11	12.94	95.95	6.4	33.27	8.0	25.1	1.78
I21	06 Nov 2024	12	12.67	95.57	6.4	33.26	8.0	25.1	2.02
I21	06 Nov 2024	13	12.50	95.65	6.3	33.26	8.0	25.1	1.59
I21	06 Nov 2024	14	12.36	97.00	6.4	33.26	8.0	25.2	1.35
I21	06 Nov 2024	15	12.24	97.74	6.4	33.26	8.0	25.2	1.09
I21	06 Nov 2024	16	12.16	98.04	6.4	33.26	8.0	25.2	0.96
I21	06 Nov 2024	17	12.14	98.37	6.4	33.26	8.0	25.2	0.90
I21	06 Nov 2024	18	12.12	98.53	6.4	33.27	8.0	25.2	0.82
I21	06 Nov 2024	19	12.03	98.58	6.3	33.28	8.0	25.2	0.75

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I21	06 Nov 2024	20	11.99	98.60	6.3	33.29	8.0	25.3	0.69
I21	06 Nov 2024	21	11.97	98.72	6.2	33.29	8.0	25.3	0.67
I21	06 Nov 2024	22	11.91	98.94	6.2	33.31	8.0	25.3	0.63
I21	06 Nov 2024	23	11.86	98.94	6.1	33.31	8.0	25.3	0.58
I21	06 Nov 2024	24	11.86	99.01	6.1	33.31	8.0	25.3	0.57
I21	06 Nov 2024	25	11.85	98.98	6.1	33.31	8.0	25.3	0.55
I21	06 Nov 2024	26	11.79	98.98	6.0	33.32	8.0	25.3	0.53
I21	06 Nov 2024	27	11.79	98.92	6.0	33.32	8.0	25.3	0.50
I21	06 Nov 2024	28	11.71	98.73	5.9	33.34	8.0	25.4	0.49
I21	06 Nov 2024	29	11.64	98.63	5.9	33.34	8.0	25.4	0.44
I21	06 Nov 2024	30	11.64	98.73	5.8	33.34	8.0	25.4	0.42
I21	06 Nov 2024	31	11.63	98.73	5.8	33.35	8.0	25.4	0.41
I21	06 Nov 2024	32	11.60	98.70	5.8	33.35	8.0	25.4	0.39
I21	06 Nov 2024	33	11.48	98.64	5.7	33.38	7.9	25.4	0.36
I21	06 Nov 2024	34	11.42	98.61	5.6	33.39	7.9	25.4	0.32
I21	06 Nov 2024	35	11.38	98.43	5.5	33.40	7.9	25.5	0.29
I21	06 Nov 2024	36	11.35	98.38	5.4	33.41	7.9	25.5	0.26
I21	06 Nov 2024	37	11.32	98.36	5.3	33.41	7.9	25.5	0.26
I21	06 Nov 2024	38	11.30	98.25	5.3	33.42	7.9	25.5	0.24
I21	06 Nov 2024	39	11.31	98.08	5.3	33.42	7.9	25.5	0.25
I21	06 Nov 2024	40	11.26	97.88	5.2	33.43	7.9	25.5	0.24
I21	06 Nov 2024	41	11.25	97.65	5.2	33.43	7.9	25.5	0.23
I27	06 Nov 2024	1	16.50	93.62	9.8	33.33	8.4	24.3	0.79
I27	06 Nov 2024	2	16.50	93.34	9.8	33.33	8.4	24.3	0.79
I27	06 Nov 2024	3	16.41	93.28	9.6	33.33	8.3	24.4	0.99
I27	06 Nov 2024	4	15.98	93.41	9.2	33.32	8.3	24.5	1.05
I27	06 Nov 2024	5	15.83	94.26	8.8	33.31	8.3	24.5	1.01
I27	06 Nov 2024	6	15.47	94.74	8.5	33.30	8.2	24.6	1.01
I27	06 Nov 2024	7	15.42	95.09	8.2	33.29	8.2	24.6	1.09
I27	06 Nov 2024	8	15.36	94.61	8.2	33.29	8.2	24.6	1.23
I27	06 Nov 2024	9	15.31	93.97	8.0	33.29	8.2	24.6	1.22
I27	06 Nov 2024	10	15.21	94.64	7.9	33.29	8.2	24.6	1.13
I27	06 Nov 2024	11	14.84	95.44	7.6	33.29	8.1	24.7	1.04
I27	06 Nov 2024	12	14.46	95.17	7.4	33.28	8.1	24.8	1.08
I27	06 Nov 2024	13	14.09	94.79	7.1	33.27	8.1	24.8	1.22
I27	06 Nov 2024	14	13.27	95.06	6.7	33.29	8.0	25.0	1.16
I27	06 Nov 2024	15	12.39	95.89	6.4	33.30	8.0	25.2	0.92
I27	06 Nov 2024	16	12.33	97.67	6.2	33.27	8.0	25.2	0.71
I27	06 Nov 2024	17	12.09	98.13	6.1	33.31	8.0	25.3	0.68
I27	06 Nov 2024	18	11.98	98.21	6.0	33.30	8.0	25.3	0.66
I27	06 Nov 2024	19	11.94	98.27	6.0	33.31	8.0	25.3	0.63
I27	06 Nov 2024	20	11.92	98.33	6.0	33.31	8.0	25.3	0.65
I27	06 Nov 2024	21	11.89	98.29	5.9	33.32	8.0	25.3	0.67
I27	06 Nov 2024	22	11.76	98.31	5.9	33.34	8.0	25.3	0.68
I27	06 Nov 2024	23	11.68	98.14	5.8	33.35	8.0	25.4	0.62
I27	06 Nov 2024	24	11.59	97.77	5.6	33.37	8.0	25.4	0.59
I27	06 Nov 2024	25	11.57	94.50	5.5	33.38	7.9	25.4	0.60
I27	06 Nov 2024	26	11.56	92.20	5.4	33.38	7.9	25.4	0.58
I27	06 Nov 2024	27	11.54	91.45	5.4	33.39	7.9	25.4	0.54
I27	06 Nov 2024	28	11.53	91.52	5.4	33.39	7.9	25.4	0.52
I28	07 Nov 2024	1	16.85	96.05	8.7	33.37	8.3	24.3	0.41
I28	07 Nov 2024	2	16.85	95.97	8.7	33.37	8.3	24.3	0.45
I28	07 Nov 2024	3	16.85	96.03	8.7	33.37	8.3	24.3	0.44
I28	07 Nov 2024	4	16.85	96.13	8.7	33.37	8.3	24.3	0.48
I28	07 Nov 2024	5	16.85	96.08	8.7	33.37	8.3	24.3	0.50
I28	07 Nov 2024	6	16.84	95.83	8.7	33.37	8.3	24.3	0.58
I28	07 Nov 2024	7	16.84	96.00	8.7	33.37	8.3	24.3	0.70
I28	07 Nov 2024	8	16.82	96.11	8.8	33.37	8.3	24.3	0.71
I28	07 Nov 2024	9	16.81	95.99	8.8	33.37	8.3	24.3	0.92

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I28	07 Nov 2024	10	16.79	95.93	8.8	33.37	8.3	24.3	1.03
I28	07 Nov 2024	11	16.77	95.85	8.9	33.37	8.3	24.3	1.17
I28	07 Nov 2024	12	16.65	95.77	8.8	33.37	8.3	24.3	1.31
I28	07 Nov 2024	13	16.31	95.52	8.6	33.36	8.3	24.4	1.57
I28	07 Nov 2024	14	16.05	94.95	8.4	33.35	8.2	24.5	1.86
I28	07 Nov 2024	15	15.64	93.98	8.0	33.34	8.2	24.5	1.69
I28	07 Nov 2024	16	14.91	93.22	7.5	33.32	8.2	24.7	1.51
I28	07 Nov 2024	17	14.29	92.26	7.1	33.30	8.1	24.8	1.63
I28	07 Nov 2024	18	13.88	92.18	7.0	33.28	8.1	24.9	1.81
I28	07 Nov 2024	19	13.68	92.40	6.8	33.27	8.1	24.9	2.23
I28	07 Nov 2024	20	13.45	92.46	6.7	33.27	8.0	25.0	2.29
I28	07 Nov 2024	21	13.40	92.76	6.6	33.26	8.0	25.0	2.08
I28	07 Nov 2024	22	13.40	93.34	6.6	33.26	8.0	25.0	2.07
I28	07 Nov 2024	23	13.37	93.56	6.6	33.26	8.0	25.0	1.97
I28	07 Nov 2024	24	13.34	93.62	6.6	33.27	8.0	25.0	1.82
I28	07 Nov 2024	25	13.32	93.68	6.6	33.27	8.0	25.0	1.77
I28	07 Nov 2024	26	13.23	93.79	6.5	33.27	8.0	25.0	1.70
I28	07 Nov 2024	27	13.10	93.90	6.5	33.28	8.0	25.0	1.35
I28	07 Nov 2024	28	12.87	94.28	6.4	33.29	8.0	25.1	1.12
I28	07 Nov 2024	29	12.75	94.83	6.4	33.28	8.0	25.1	1.03
I28	07 Nov 2024	30	12.63	95.47	6.3	33.29	8.0	25.1	0.94
I28	07 Nov 2024	31	12.54	95.87	6.3	33.29	8.0	25.2	0.93
I28	07 Nov 2024	32	12.42	96.31	6.2	33.29	8.0	25.2	0.87
I28	07 Nov 2024	33	12.29	96.63	6.2	33.30	8.0	25.2	0.80
I28	07 Nov 2024	34	11.96	97.17	6.1	33.31	8.0	25.3	0.68
I28	07 Nov 2024	35	11.93	97.92	6.1	33.30	8.0	25.3	0.63
I28	07 Nov 2024	36	11.91	98.01	6.1	33.30	8.0	25.3	0.60
I28	07 Nov 2024	37	11.90	98.62	6.1	33.31	8.0	25.3	0.61
I28	07 Nov 2024	38	11.89	98.66	6.1	33.31	8.0	25.3	0.59
I28	07 Nov 2024	39	11.86	98.65	6.1	33.31	8.0	25.3	0.58
I28	07 Nov 2024	40	11.78	98.67	6.0	33.32	8.0	25.3	0.56
I28	07 Nov 2024	41	11.70	98.74	6.0	33.33	8.0	25.3	0.54
I28	07 Nov 2024	42	11.63	98.84	5.9	33.34	8.0	25.4	0.51
I28	07 Nov 2024	43	11.55	98.83	5.9	33.35	8.0	25.4	0.47
I28	07 Nov 2024	44	11.52	98.90	5.8	33.35	8.0	25.4	0.45
I28	07 Nov 2024	45	11.50	99.06	5.8	33.36	8.0	25.4	0.43
I28	07 Nov 2024	46	11.47	99.11	5.7	33.36	8.0	25.4	0.42
I28	07 Nov 2024	47	11.45	99.06	5.7	33.37	8.0	25.4	0.40
I28	07 Nov 2024	48	11.44	98.96	5.7	33.37	7.9	25.4	0.41
I28	07 Nov 2024	49	11.42	98.98	5.6	33.38	7.9	25.4	0.42
I28	07 Nov 2024	50	11.39	98.86	5.5	33.39	7.9	25.4	0.38
I28	07 Nov 2024	51	11.33	98.62	5.4	33.41	7.9	25.5	0.32
I28	07 Nov 2024	52	11.31	98.52	5.3	33.41	7.9	25.5	0.29
I28	07 Nov 2024	53	11.30	98.20	5.3	33.42	7.9	25.5	0.28
I28	07 Nov 2024	54	11.29	98.12	5.3	33.42	7.9	25.5	0.27
I28	07 Nov 2024	55	11.28	97.93	5.2	33.42	7.9	25.5	0.26
I29	07 Nov 2024	1	15.75	88.17	8.8	33.32	8.3	24.5	1.52
I29	07 Nov 2024	2	15.74	88.18	8.8	33.32	8.3	24.5	1.65
I29	07 Nov 2024	3	15.72	87.27	8.8	33.32	8.3	24.5	1.97
I29	07 Nov 2024	4	15.70	86.23	8.8	33.32	8.3	24.5	2.61
I29	07 Nov 2024	5	15.67	85.75	8.8	33.32	8.3	24.5	3.51
I29	07 Nov 2024	6	15.62	85.79	8.7	33.32	8.3	24.5	4.29
I29	07 Nov 2024	7	15.60	86.61	8.7	33.32	8.3	24.5	4.54
I29	07 Nov 2024	8	15.51	87.18	8.6	33.32	8.3	24.6	4.51
I29	07 Nov 2024	9	15.38	87.79	8.4	33.31	8.2	24.6	3.89
I29	07 Nov 2024	10	15.26	88.59	8.3	33.31	8.2	24.6	3.38
I29	07 Nov 2024	11	15.12	89.34	8.1	33.31	8.2	24.6	2.96
I29	07 Nov 2024	12	14.96	90.19	8.0	33.30	8.2	24.7	2.64
I29	07 Nov 2024	13	14.84	91.10	7.8	33.30	8.2	24.7	2.29
I29	07 Nov 2024	14	14.72	92.01	7.7	33.29	8.2	24.7	1.99

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I29	07 Nov 2024	15	14.62	92.56	7.6	33.29	8.2	24.7	1.96
I29	07 Nov 2024	16	14.49	92.72	7.4	33.29	8.1	24.8	1.74
I29	07 Nov 2024	17	14.32	92.88	7.2	33.29	8.1	24.8	1.71
I29	07 Nov 2024	18	13.93	93.03	7.0	33.29	8.1	24.9	1.74
I29	07 Nov 2024	19	13.48	93.66	6.7	33.28	8.1	25.0	1.60
I29	07 Nov 2024	20	13.06	94.18	6.5	33.27	8.0	25.0	1.57
I29	07 Nov 2024	21	12.82	95.21	6.4	33.27	8.0	25.1	1.41
I29	07 Nov 2024	22	12.55	95.78	6.3	33.28	8.0	25.1	1.25
I29	07 Nov 2024	23	12.19	96.43	6.3	33.29	8.0	25.2	0.98
I29	07 Nov 2024	24	12.02	97.43	6.2	33.29	8.0	25.3	0.79
I29	07 Nov 2024	25	11.99	98.11	6.2	33.29	8.0	25.3	0.73
I29	07 Nov 2024	26	11.98	98.44	6.2	33.29	8.0	25.3	0.68
I29	07 Nov 2024	27	11.96	98.51	6.1	33.29	8.0	25.3	0.69
I29	07 Nov 2024	28	11.93	98.54	6.1	33.30	8.0	25.3	0.64
I29	07 Nov 2024	29	11.89	98.53	6.0	33.31	8.0	25.3	0.65
I29	07 Nov 2024	30	11.74	98.43	5.9	33.34	8.0	25.4	0.58
I29	07 Nov 2024	31	11.56	98.14	5.7	33.37	8.0	25.4	0.52
I29	07 Nov 2024	32	11.54	97.19	5.6	33.38	8.0	25.4	0.52
I29	07 Nov 2024	33	11.53	96.27	5.5	33.38	8.0	25.4	0.48
I29	07 Nov 2024	34	11.52	95.96	5.5	33.38	7.9	25.4	0.46
I29	07 Nov 2024	35	11.50	95.68	5.5	33.38	7.9	25.4	0.46
I29	07 Nov 2024	36	11.49	95.29	5.4	33.39	7.9	25.4	0.47
I29	07 Nov 2024	37	11.49	95.05	5.4	33.39	7.9	25.4	0.48
I29	07 Nov 2024	38	11.49	94.93	5.4	33.39	7.9	25.4	0.49
I30	07 Nov 2024	1	15.80	93.79	9.0	33.33	8.3	24.5	0.69
I30	07 Nov 2024	2	15.78	93.57	9.0	33.33	8.3	24.5	0.77
I30	07 Nov 2024	3	15.76	92.43	9.0	33.33	8.3	24.5	1.28
I30	07 Nov 2024	4	15.73	89.78	9.0	33.33	8.3	24.5	2.58
I30	07 Nov 2024	5	15.71	86.74	9.0	33.33	8.3	24.5	4.12
I30	07 Nov 2024	6	15.70	86.67	8.9	33.33	8.3	24.5	5.66
I30	07 Nov 2024	7	15.69	87.43	8.9	33.33	8.3	24.5	6.30
I30	07 Nov 2024	8	15.68	87.79	8.8	33.33	8.3	24.5	6.55
I30	07 Nov 2024	9	15.67	87.85	8.8	33.33	8.3	24.5	6.17
I30	07 Nov 2024	10	15.61	87.50	8.7	33.33	8.3	24.5	6.03
I30	07 Nov 2024	11	15.54	87.25	8.5	33.33	8.3	24.6	6.25
I30	07 Nov 2024	12	15.40	87.25	8.3	33.33	8.2	24.6	5.59
I30	07 Nov 2024	13	15.03	88.55	8.0	33.33	8.2	24.7	5.22
I30	07 Nov 2024	14	14.63	88.68	7.8	33.30	8.2	24.7	4.58
I30	07 Nov 2024	15	14.40	89.68	7.6	33.29	8.2	24.8	4.06
I30	07 Nov 2024	16	14.22	90.32	7.6	33.28	8.1	24.8	3.96
I30	07 Nov 2024	17	14.16	90.15	7.6	33.27	8.1	24.8	3.73
I30	07 Nov 2024	18	14.11	90.83	7.6	33.27	8.1	24.8	3.34
I30	07 Nov 2024	19	13.83	91.49	7.4	33.28	8.1	24.9	3.07
I30	07 Nov 2024	20	13.41	91.60	7.1	33.28	8.1	25.0	2.86
I30	07 Nov 2024	21	12.97	92.33	6.8	33.28	8.1	25.1	2.39
I30	07 Nov 2024	22	12.71	94.27	6.6	33.28	8.0	25.1	1.79
I30	07 Nov 2024	23	12.40	95.81	6.4	33.28	8.0	25.2	1.34
I30	07 Nov 2024	24	12.28	97.02	6.2	33.29	8.0	25.2	1.05
I30	07 Nov 2024	25	11.91	96.75	6.0	33.33	8.0	25.3	0.95
I30	07 Nov 2024	26	11.86	94.51	5.8	33.33	8.0	25.3	0.86
I30	07 Nov 2024	27	11.86	91.94	5.8	33.33	8.0	25.3	0.83
I30	07 Nov 2024	28	11.85	90.87	5.7	33.33	8.0	25.3	0.83
I31	07 Nov 2024	1	15.17	94.17	8.3	33.30	8.2	24.6	0.57
I31	07 Nov 2024	2	15.13	93.99	8.3	33.31	8.2	24.6	0.58
I31	07 Nov 2024	3	15.01	93.09	8.3	33.31	8.2	24.7	0.77
I31	07 Nov 2024	4	14.85	91.90	8.2	33.30	8.2	24.7	1.12
I31	07 Nov 2024	5	14.70	91.26	8.1	33.30	8.2	24.7	1.33
I31	07 Nov 2024	6	14.52	91.56	8.0	33.30	8.2	24.8	1.63
I31	07 Nov 2024	7	14.31	91.62	8.0	33.30	8.2	24.8	2.14

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I31	07 Nov 2024	8	14.11	90.25	7.9	33.29	8.2	24.8	2.91
I31	07 Nov 2024	9	13.99	89.92	7.8	33.28	8.2	24.9	2.94
I31	07 Nov 2024	10	13.96	90.61	7.7	33.27	8.2	24.9	2.74
I31	07 Nov 2024	11	13.94	90.84	7.7	33.27	8.1	24.9	2.41
I31	07 Nov 2024	12	13.92	91.34	7.6	33.27	8.1	24.9	2.05
I31	07 Nov 2024	13	13.79	92.12	7.4	33.28	8.1	24.9	1.89
I31	07 Nov 2024	14	13.50	92.81	7.2	33.29	8.1	25.0	1.66
I31	07 Nov 2024	15	13.34	93.86	7.0	33.28	8.1	25.0	1.43
I31	07 Nov 2024	16	13.25	94.98	6.9	33.28	8.1	25.0	1.28
I31	07 Nov 2024	17	12.92	94.99	6.6	33.32	8.1	25.1	1.21
I31	07 Nov 2024	18	12.22	94.74	6.4	33.30	8.0	25.2	1.03
I31	07 Nov 2024	19	12.20	91.84	6.2	33.28	8.0	25.2	0.94
I33	07 Nov 2024	1	15.44	91.44	8.8	33.32	8.2	24.6	0.89
I33	07 Nov 2024	2	15.44	91.52	8.8	33.32	8.2	24.6	0.82
I33	07 Nov 2024	3	15.40	91.84	8.7	33.32	8.2	24.6	0.79
I33	07 Nov 2024	4	15.33	91.27	8.6	33.32	8.2	24.6	1.11
I33	07 Nov 2024	5	15.21	90.37	8.4	33.32	8.2	24.6	1.70
I33	07 Nov 2024	6	15.14	89.33	8.3	33.31	8.2	24.6	2.32
I33	07 Nov 2024	7	15.07	88.53	8.1	33.31	8.2	24.7	2.61
I33	07 Nov 2024	8	14.92	88.86	7.9	33.31	8.2	24.7	2.36
I33	07 Nov 2024	9	14.59	89.30	7.7	33.31	8.1	24.8	2.21
I33	07 Nov 2024	10	14.33	89.98	7.6	33.29	8.1	24.8	2.15
I33	07 Nov 2024	11	14.27	91.29	7.5	33.29	8.1	24.8	2.07
I33	07 Nov 2024	12	14.15	92.09	7.4	33.29	8.1	24.8	1.83
I33	07 Nov 2024	13	14.07	92.96	7.3	33.28	8.1	24.8	1.68
I33	07 Nov 2024	14	13.78	93.61	7.1	33.30	8.1	24.9	1.66
I33	07 Nov 2024	15	13.33	93.74	6.9	33.29	8.1	25.0	1.57
I33	07 Nov 2024	16	13.01	94.26	6.7	33.29	8.0	25.1	1.48
I33	07 Nov 2024	17	12.60	94.78	6.5	33.29	8.0	25.1	1.34
I33	07 Nov 2024	18	12.40	95.51	6.3	33.29	8.0	25.2	1.16
I33	07 Nov 2024	19	12.19	96.68	6.2	33.30	8.0	25.2	0.97
I33	07 Nov 2024	20	12.06	97.32	6.1	33.31	8.0	25.3	0.89
I33	07 Nov 2024	21	11.92	97.51	6.0	33.32	8.0	25.3	0.86
I33	07 Nov 2024	22	11.82	97.62	5.9	33.33	8.0	25.3	0.78
I33	07 Nov 2024	23	11.79	97.22	5.8	33.34	8.0	25.3	0.80
I33	07 Nov 2024	24	11.78	95.11	5.7	33.34	7.9	25.3	0.80
I33	07 Nov 2024	25	11.77	92.40	5.6	33.34	7.9	25.3	0.81
I33	07 Nov 2024	26	11.77	91.79	5.6	33.34	7.9	25.3	0.82
I33	07 Nov 2024	27	11.77	91.53	5.6	33.35	7.9	25.3	0.82
I33	07 Nov 2024	28	11.76	91.28	5.6	33.35	7.9	25.4	0.80
I33	07 Nov 2024	29	11.76	90.87	5.5	33.35	7.9	25.4	0.81
I33	07 Nov 2024	30	11.76	90.56	5.5	33.35	7.9	25.4	0.87
I34	07 Nov 2024	1	16.04	91.40	9.7	33.33	8.3	24.5	1.70
I34	07 Nov 2024	2	16.04	91.63	9.7	33.33	8.3	24.5	1.68
I34	07 Nov 2024	3	16.03	91.52	9.7	33.33	8.3	24.5	2.05
I34	07 Nov 2024	4	16.03	91.59	9.7	33.33	8.3	24.5	2.46
I34	07 Nov 2024	5	16.03	91.58	9.7	33.33	8.3	24.5	2.76
I34	07 Nov 2024	6	15.98	91.67	9.6	33.33	8.3	24.5	2.88
I34	07 Nov 2024	7	15.66	91.49	9.0	33.32	8.3	24.5	2.62
I34	07 Nov 2024	8	15.18	92.46	8.2	33.31	8.2	24.6	2.04
I34	07 Nov 2024	9	14.68	93.94	7.6	33.27	8.1	24.7	1.67
I34	07 Nov 2024	10	14.56	94.69	7.4	33.27	8.1	24.7	1.49
I34	07 Nov 2024	11	14.28	94.51	7.2	33.30	8.1	24.8	1.51
I34	07 Nov 2024	12	13.13	94.04	6.9	33.34	8.1	25.1	1.63
I34	07 Nov 2024	13	12.52	93.51	6.5	33.29	8.0	25.2	1.52
I34	07 Nov 2024	14	12.14	94.29	6.3	33.30	8.0	25.2	1.32
I34	07 Nov 2024	15	12.02	94.66	6.1	33.30	8.0	25.3	1.18
I34	07 Nov 2024	16	11.99	91.97	6.0	33.30	8.0	25.3	1.11
I34	07 Nov 2024	17	11.98	89.29	5.9	33.31	8.0	25.3	1.09

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I34	07 Nov 2024	18	11.97	86.49	5.8	33.31	8.0	25.3	1.09
I34	07 Nov 2024	19	11.97	84.64	5.8	33.31	8.0	25.3	1.11
I35	07 Nov 2024	1	15.28	91.45	8.6	33.30	8.2	24.6	0.83
I35	07 Nov 2024	2	15.29	91.59	8.6	33.30	8.2	24.6	0.81
I35	07 Nov 2024	3	15.29	91.53	8.7	33.31	8.2	24.6	0.72
I35	07 Nov 2024	4	15.26	91.73	8.6	33.31	8.2	24.6	0.69
I35	07 Nov 2024	5	15.18	91.99	8.6	33.31	8.2	24.6	0.82
I35	07 Nov 2024	6	15.16	91.57	8.6	33.30	8.2	24.6	1.34
I35	07 Nov 2024	7	15.09	90.15	8.5	33.31	8.2	24.6	2.21
I35	07 Nov 2024	8	14.93	88.94	8.2	33.30	8.2	24.7	2.72
I35	07 Nov 2024	9	14.19	89.87	7.7	33.32	8.2	24.9	2.97
I35	07 Nov 2024	10	13.67	88.75	7.0	33.28	8.1	24.9	3.29
I35	07 Nov 2024	11	13.13	85.99	6.2	33.27	8.0	25.0	3.26
I35	07 Nov 2024	12	12.77	78.00	5.7	33.26	7.9	25.1	2.55
I35	07 Nov 2024	13	12.59	72.42	5.7	33.27	7.9	25.1	2.44
I35	07 Nov 2024	14	12.46	71.99	5.8	33.27	8.0	25.2	2.48
I35	07 Nov 2024	15	12.34	76.27	5.8	33.28	8.0	25.2	1.99
I35	07 Nov 2024	16	12.22	81.20	5.9	33.29	8.0	25.2	1.55
I35	07 Nov 2024	17	12.18	83.46	5.9	33.29	8.0	25.2	1.38
I35	07 Nov 2024	18	12.16	84.72	5.9	33.30	8.0	25.2	1.22
I35	07 Nov 2024	19	12.15	83.06	5.8	33.30	8.0	25.2	1.16
I36	07 Nov 2024	1	15.06	67.72	8.8	33.26	8.2	24.6	4.89
I36	07 Nov 2024	2	15.02	64.82	8.7	33.27	8.2	24.6	6.06
I36	07 Nov 2024	3	14.93	61.82	8.4	33.27	8.2	24.7	7.24
I36	07 Nov 2024	4	14.86	68.02	8.3	33.27	8.2	24.7	6.18
I36	07 Nov 2024	5	14.65	73.30	8.1	33.27	8.2	24.7	5.78
I36	07 Nov 2024	6	14.53	73.31	7.6	33.26	8.1	24.7	5.36
I36	07 Nov 2024	7	14.50	71.15	7.3	33.25	8.1	24.7	4.82
I36	07 Nov 2024	8	14.35	70.51	7.1	33.26	8.1	24.8	4.04
I36	07 Nov 2024	9	13.93	65.44	6.8	33.27	8.0	24.9	3.10
I36	07 Nov 2024	10	13.38	54.26	6.2	33.28	8.0	25.0	2.21
I36	07 Nov 2024	11	12.87	43.49	5.7	33.26	7.9	25.1	1.84
I37	07 Nov 2024	1	15.27	91.63	9.0	33.31	8.3	24.6	1.04
I37	07 Nov 2024	2	15.25	91.24	9.0	33.31	8.3	24.6	1.12
I37	07 Nov 2024	3	15.21	87.83	9.0	33.31	8.3	24.6	1.46
I37	07 Nov 2024	4	15.19	85.11	9.0	33.31	8.3	24.6	2.30
I37	07 Nov 2024	5	15.17	85.67	8.9	33.31	8.3	24.6	2.93
I37	07 Nov 2024	6	15.15	87.06	8.9	33.31	8.3	24.6	3.35
I37	07 Nov 2024	7	15.13	88.40	8.7	33.31	8.3	24.6	3.31
I37	07 Nov 2024	8	14.89	89.28	8.2	33.33	8.2	24.7	3.15
I37	07 Nov 2024	9	13.96	90.27	7.5	33.31	8.2	24.9	2.69
I37	07 Nov 2024	10	13.42	89.26	6.8	33.28	8.1	25.0	2.44
I37	07 Nov 2024	11	12.61	85.86	6.3	33.29	8.0	25.1	2.39
I37	07 Nov 2024	12	12.43	80.47	6.0	33.27	8.0	25.2	2.02
I38	07 Nov 2024	1	15.34	85.69	8.3	33.30	8.2	24.6	0.68
I38	07 Nov 2024	2	15.32	85.53	8.3	33.30	8.2	24.6	0.69
I38	07 Nov 2024	3	15.26	85.49	8.3	33.30	8.2	24.6	0.78
I38	07 Nov 2024	4	15.22	85.96	8.3	33.30	8.2	24.6	1.02
I38	07 Nov 2024	5	15.20	85.20	8.3	33.30	8.2	24.6	1.46
I38	07 Nov 2024	6	15.13	84.72	7.9	33.31	8.2	24.6	1.87
I38	07 Nov 2024	7	14.05	84.63	7.0	33.33	8.1	24.9	1.96
I38	07 Nov 2024	8	13.37	82.32	6.3	33.26	8.0	25.0	2.21
I38	07 Nov 2024	9	13.19	78.18	6.0	33.25	8.0	25.0	2.46
I38	07 Nov 2024	10	12.85	75.57	5.7	33.26	8.0	25.1	2.25
I38	07 Nov 2024	11	12.78	70.39	5.6	33.25	8.0	25.1	1.99

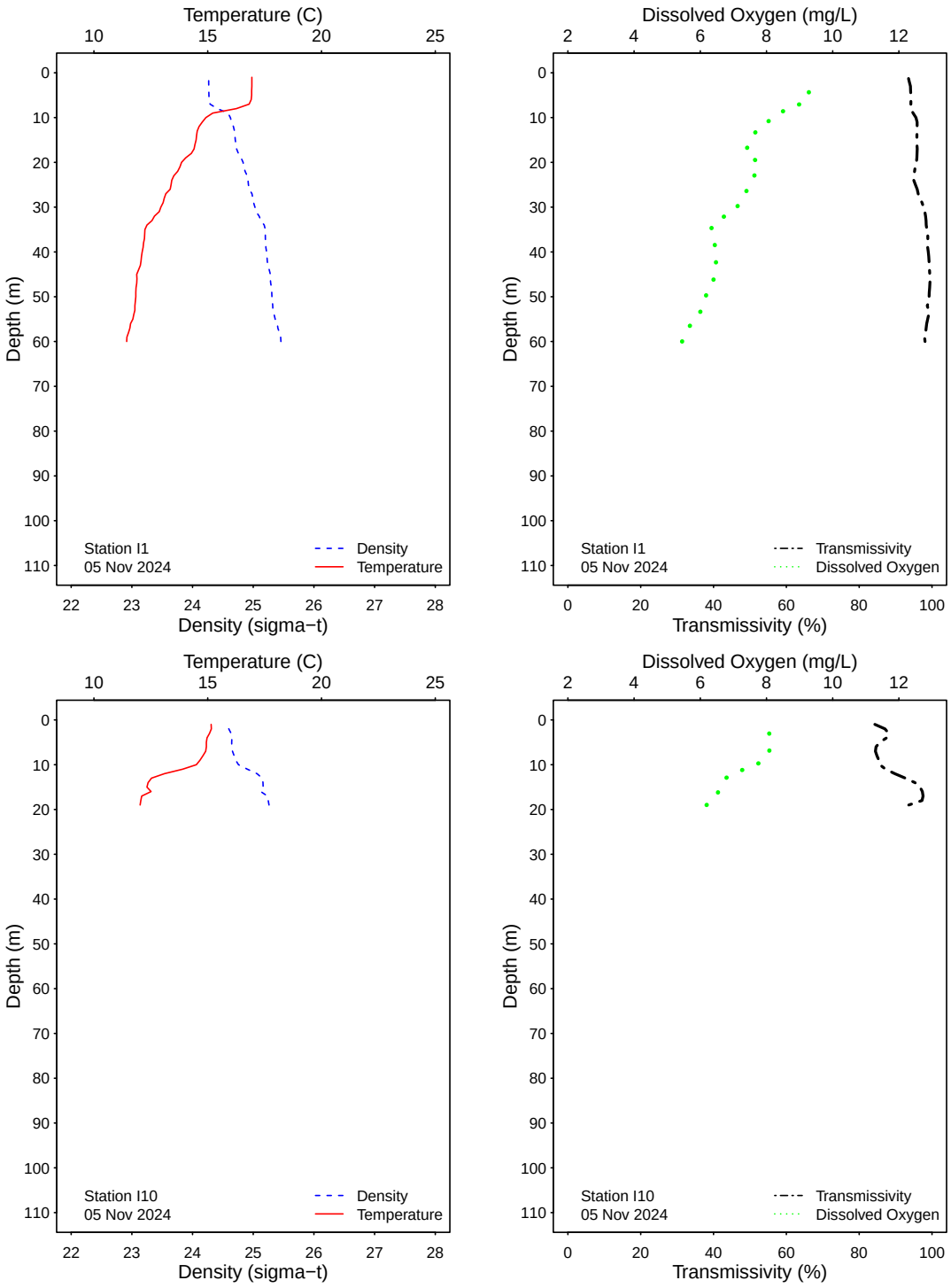

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

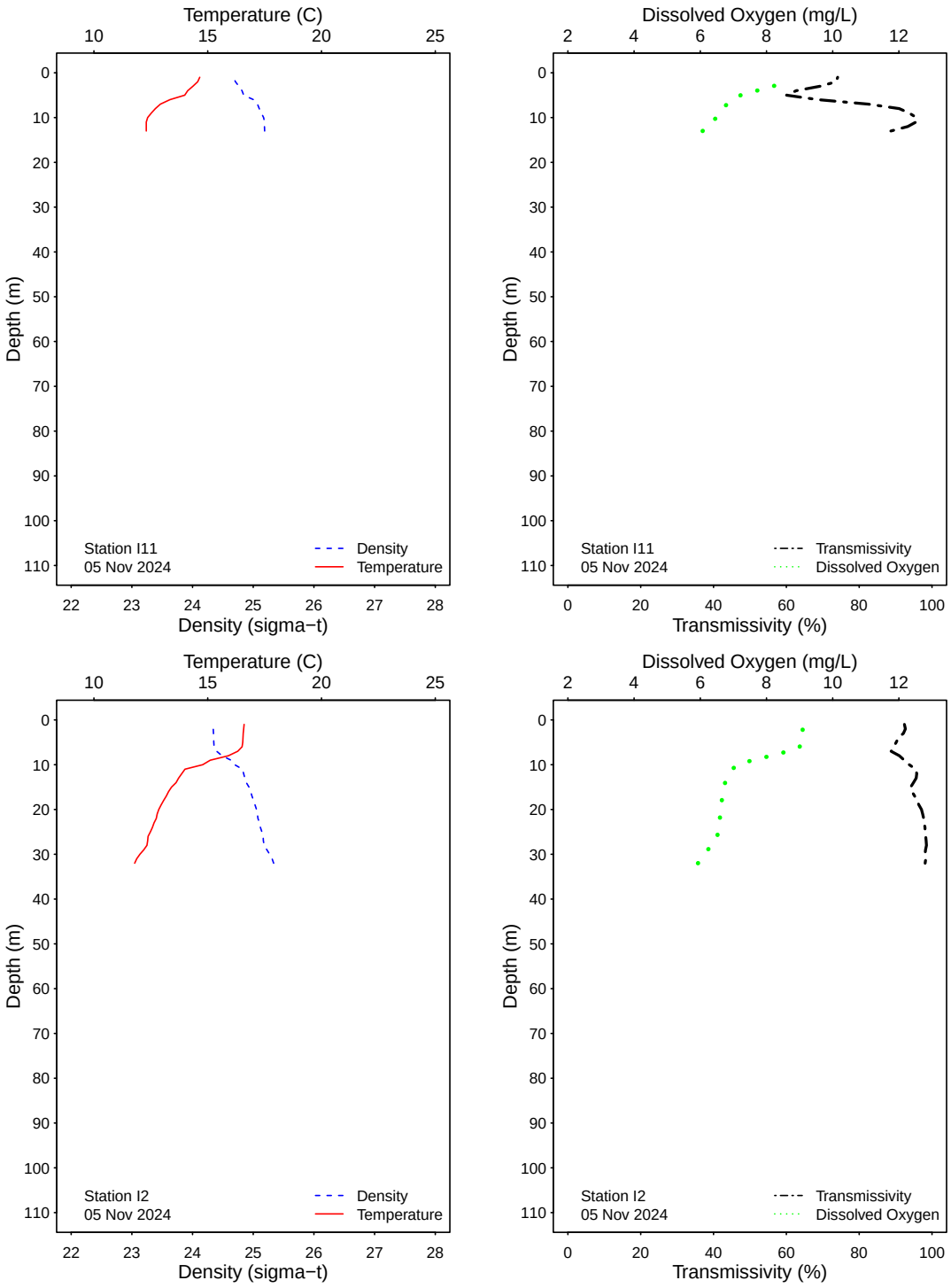

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

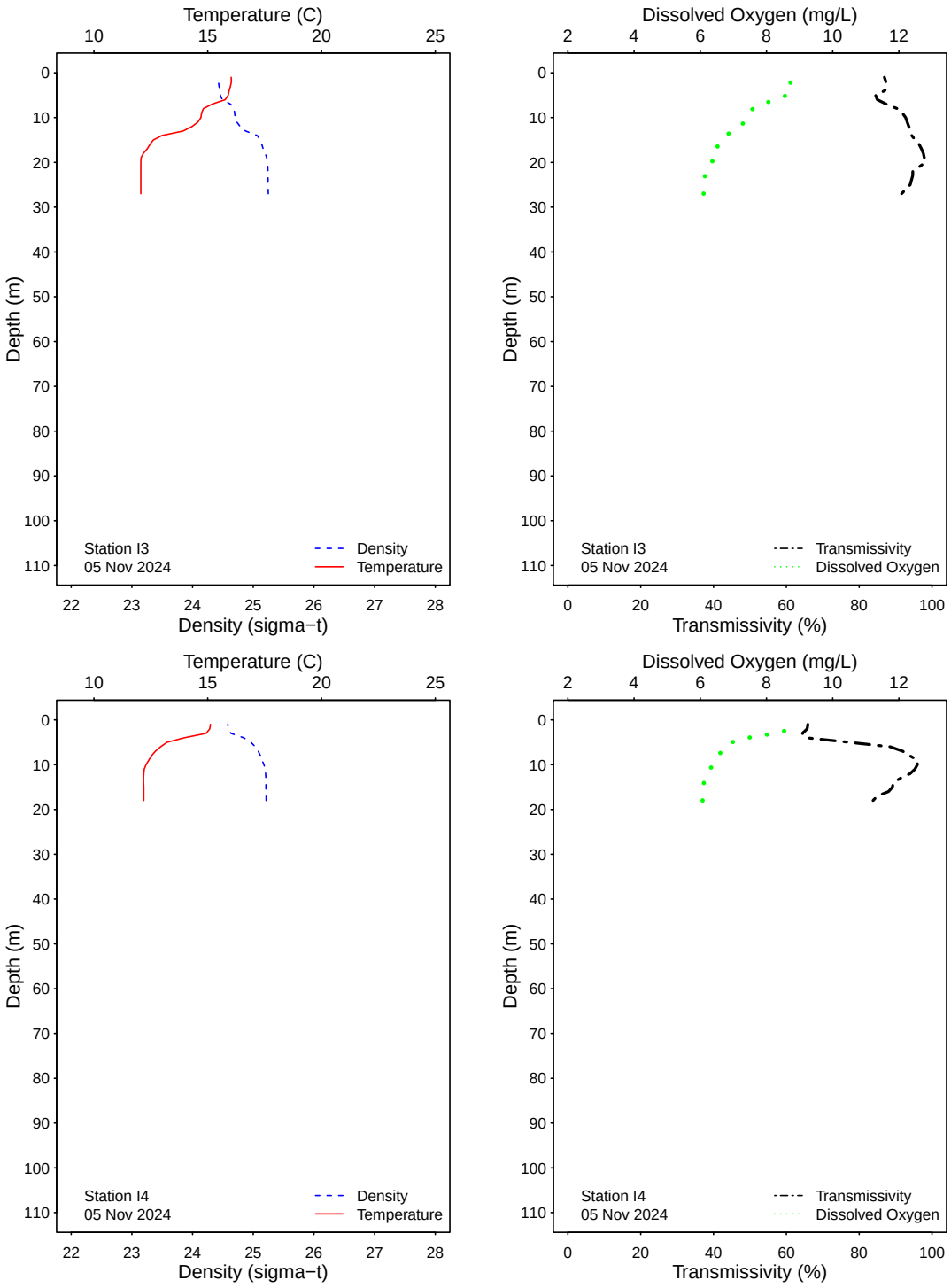

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

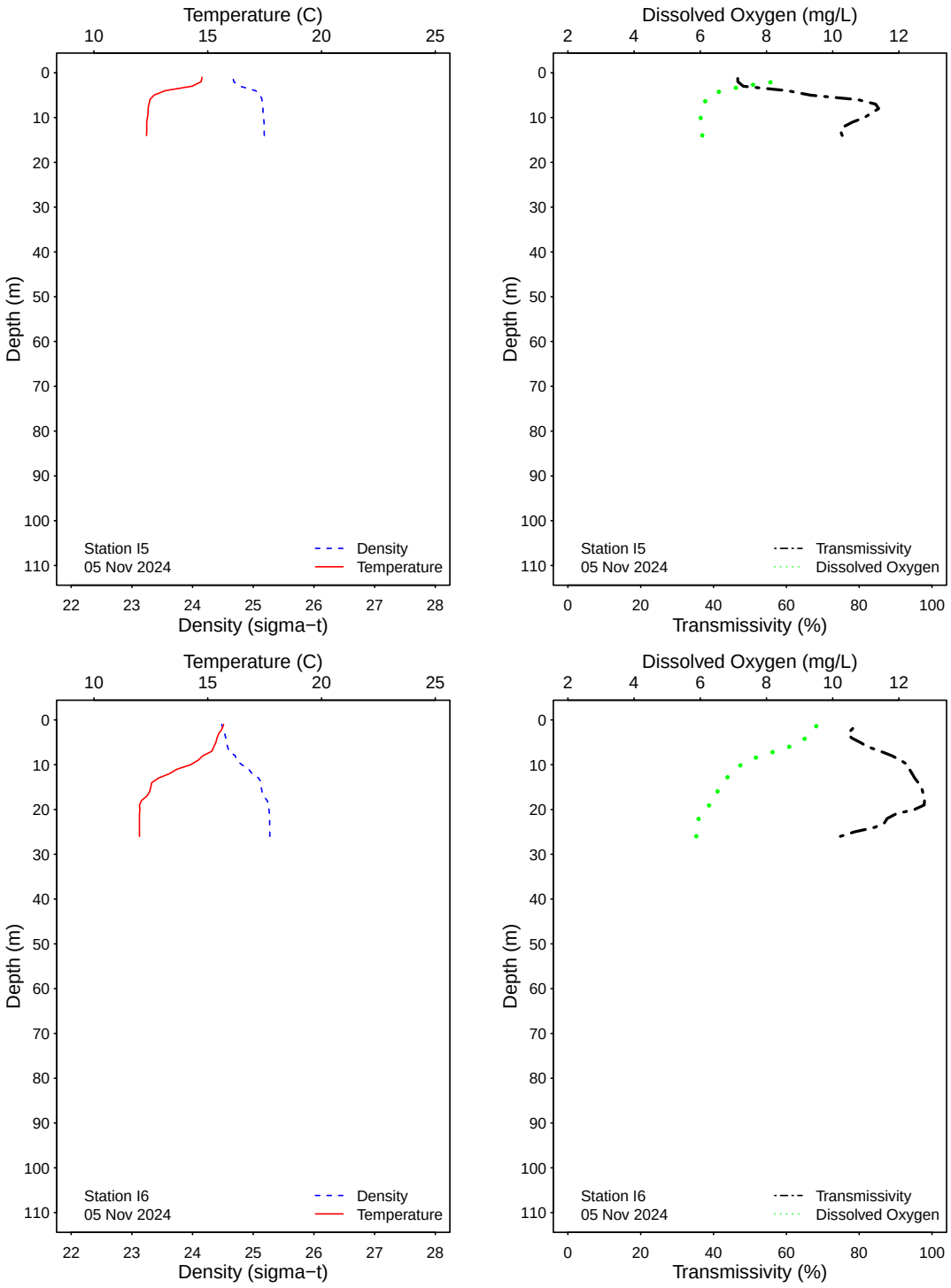

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

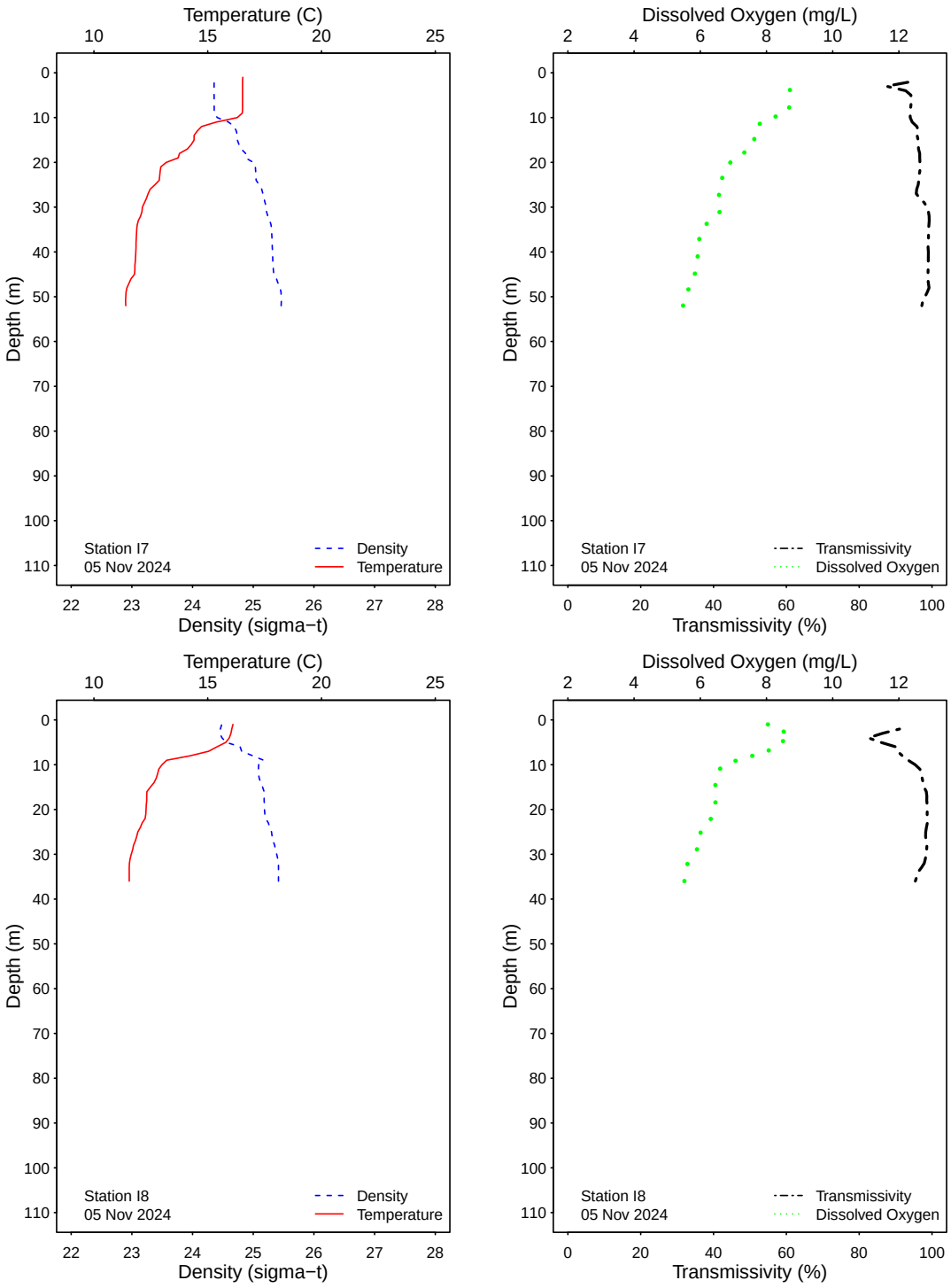

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

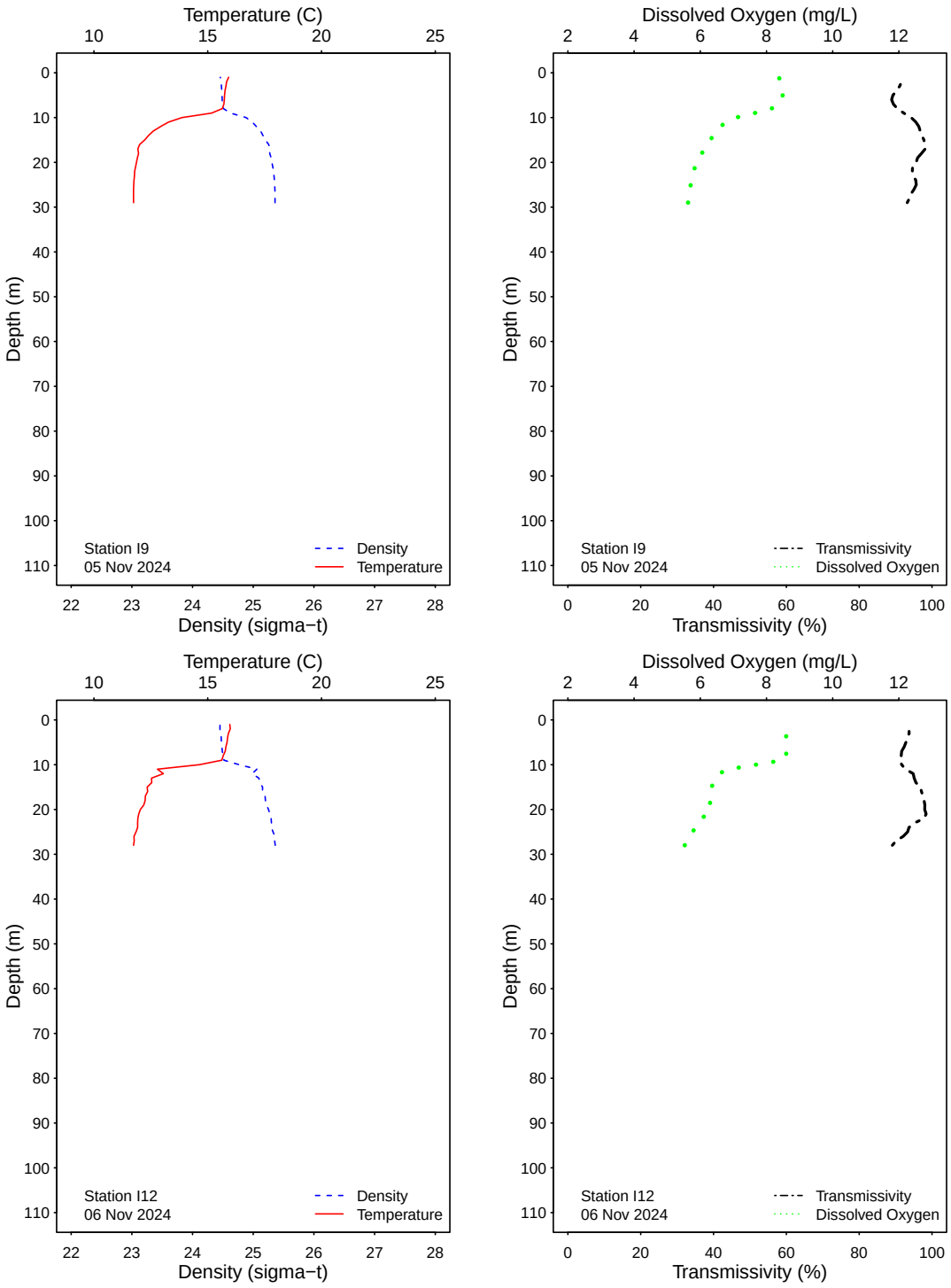

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

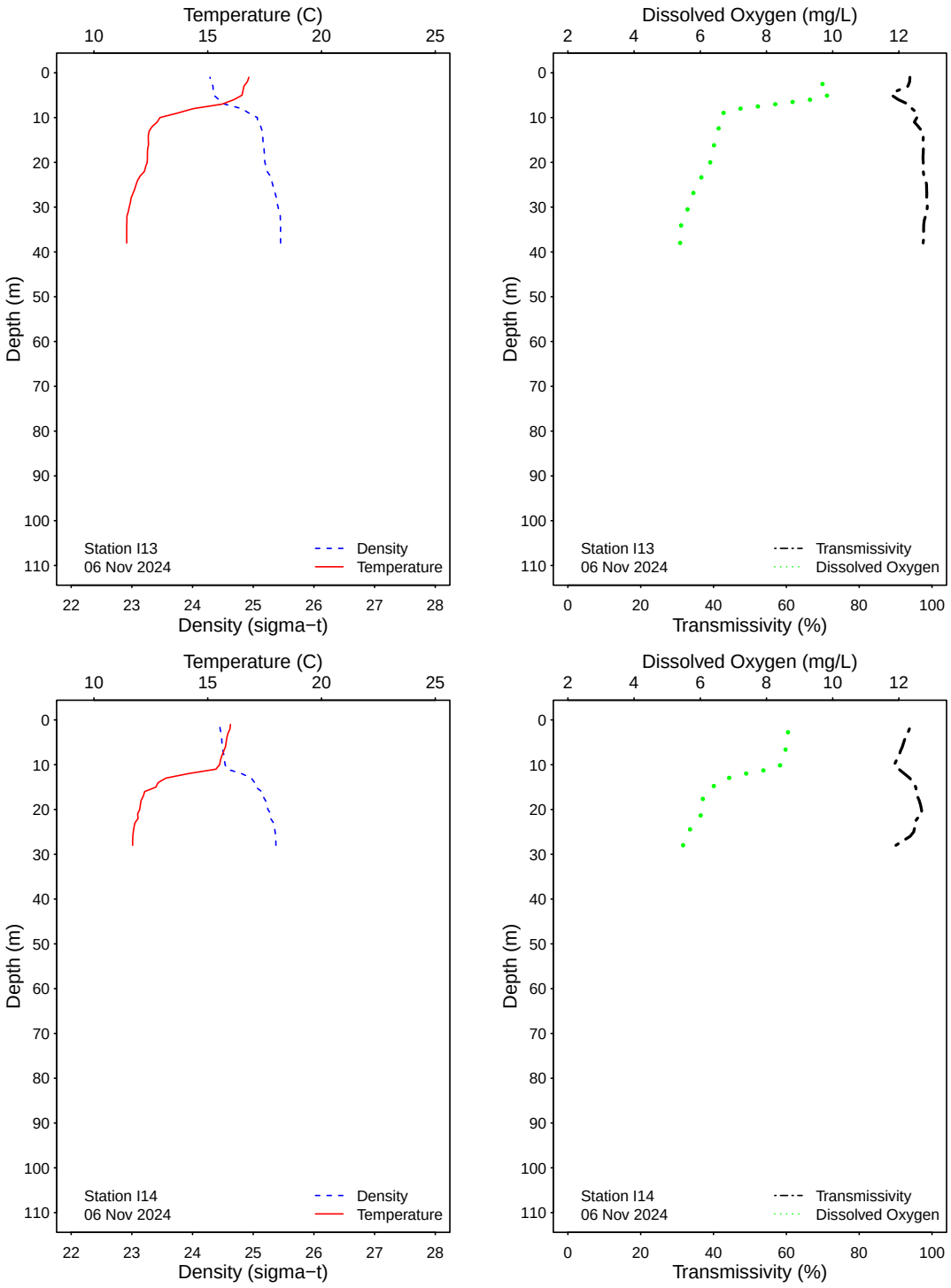

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

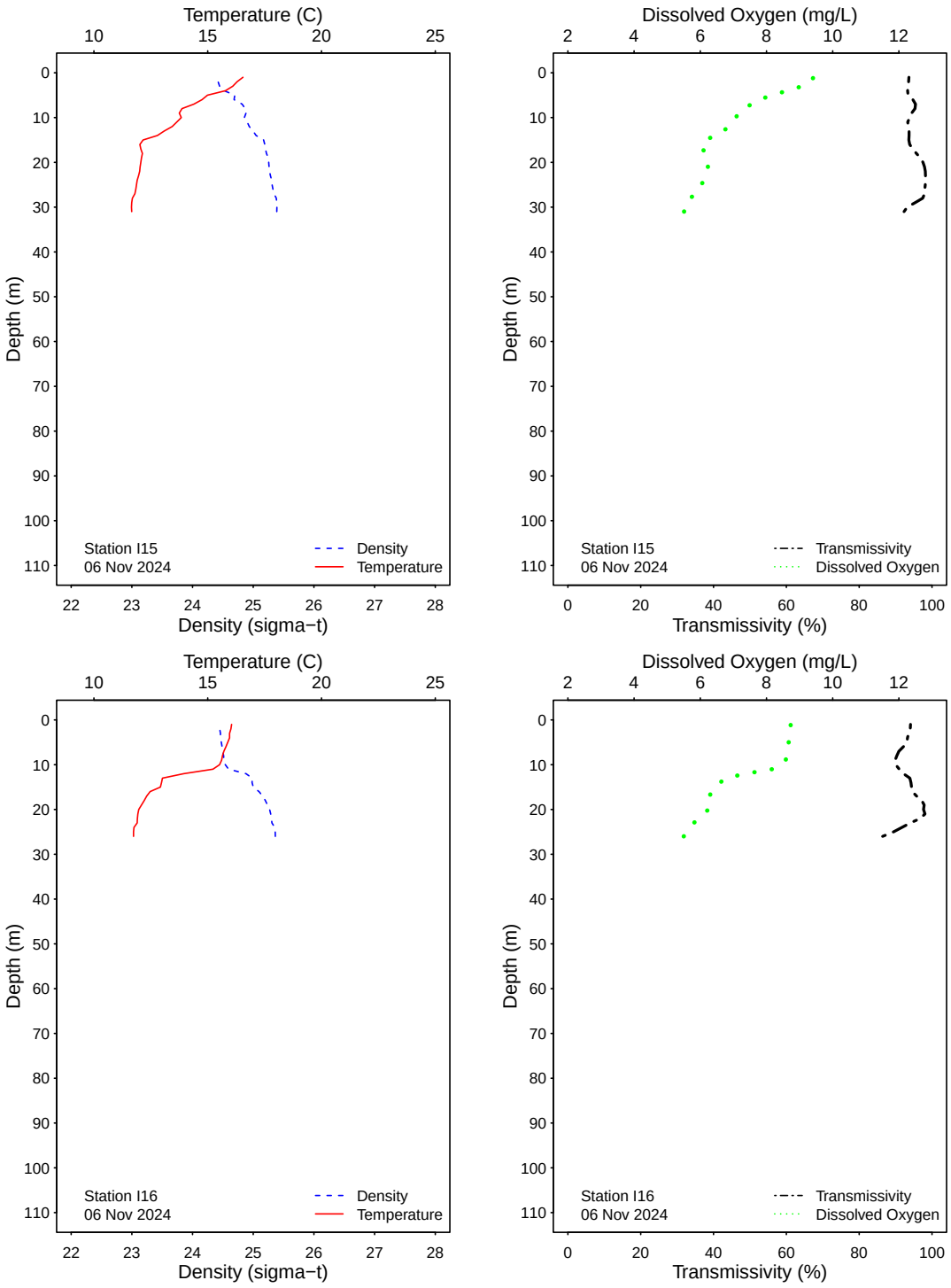

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

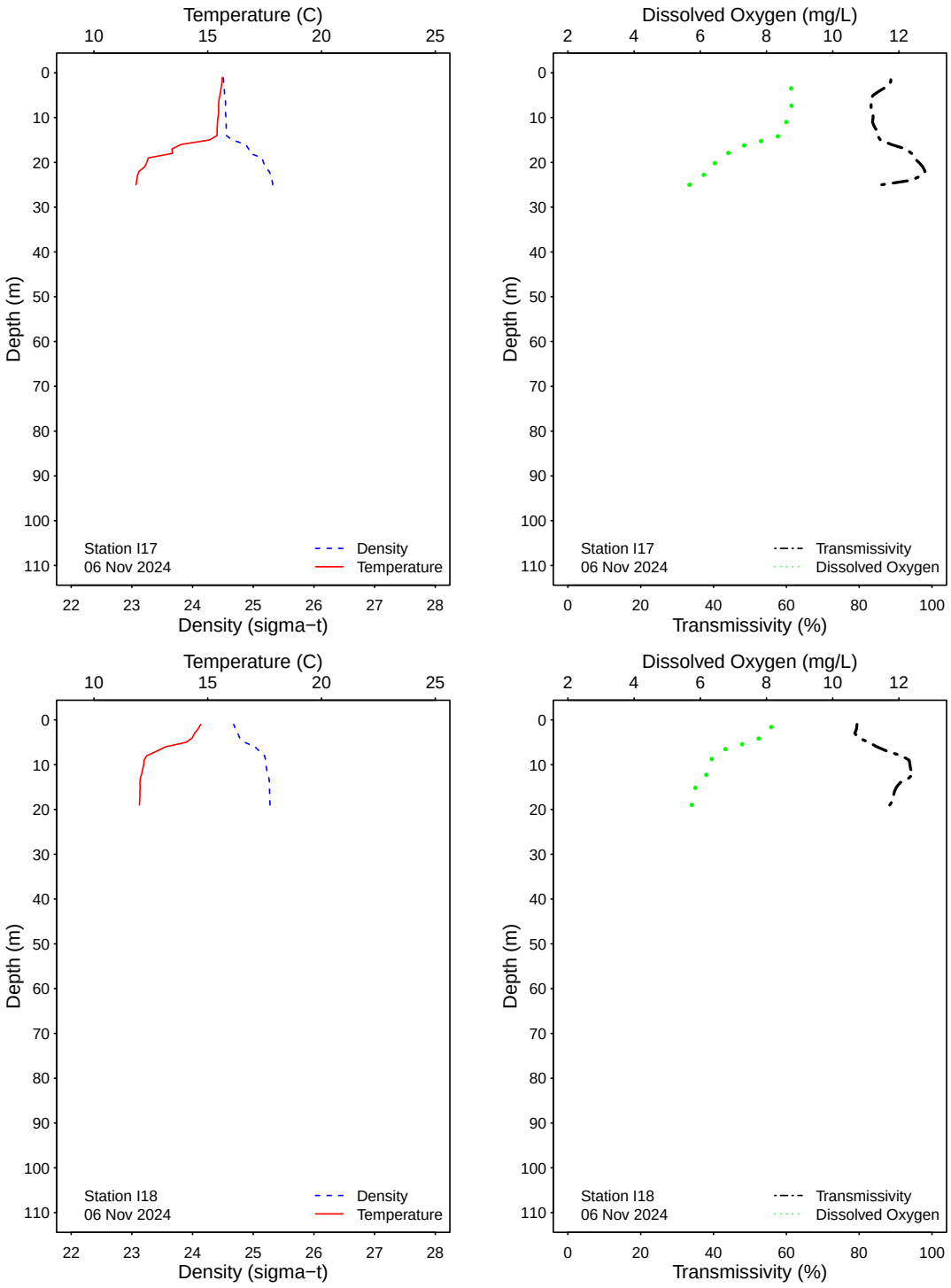

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

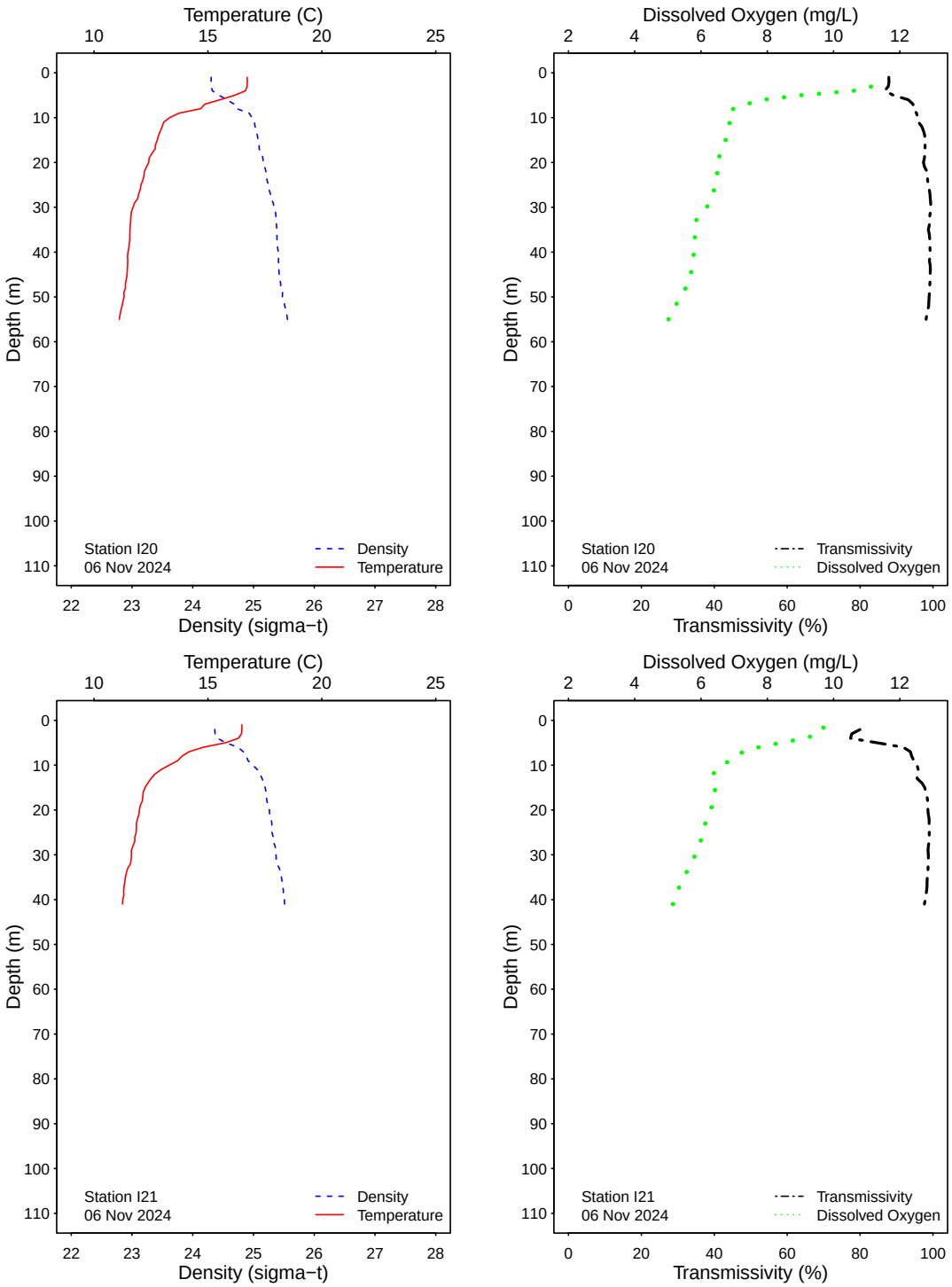

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

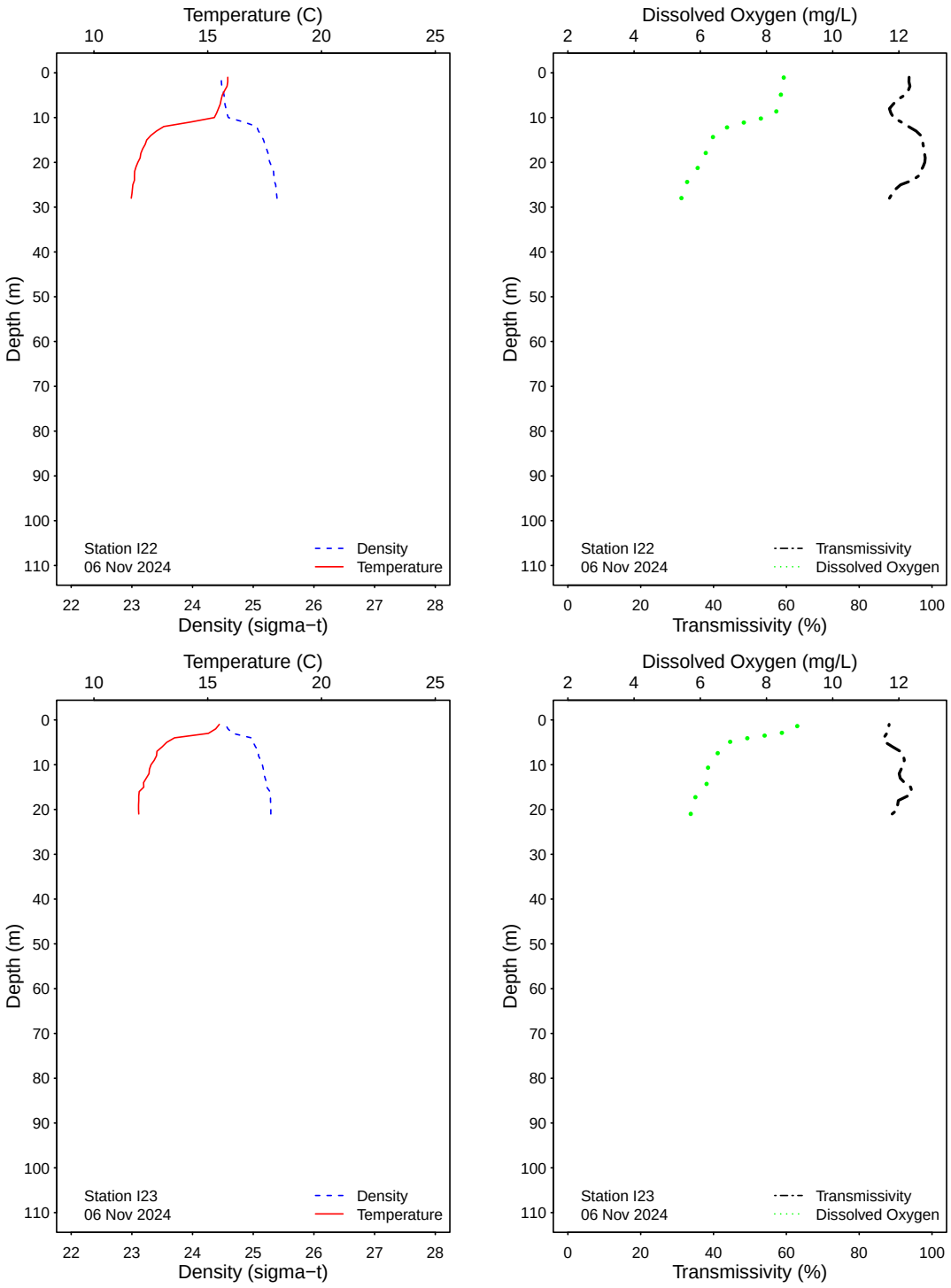

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

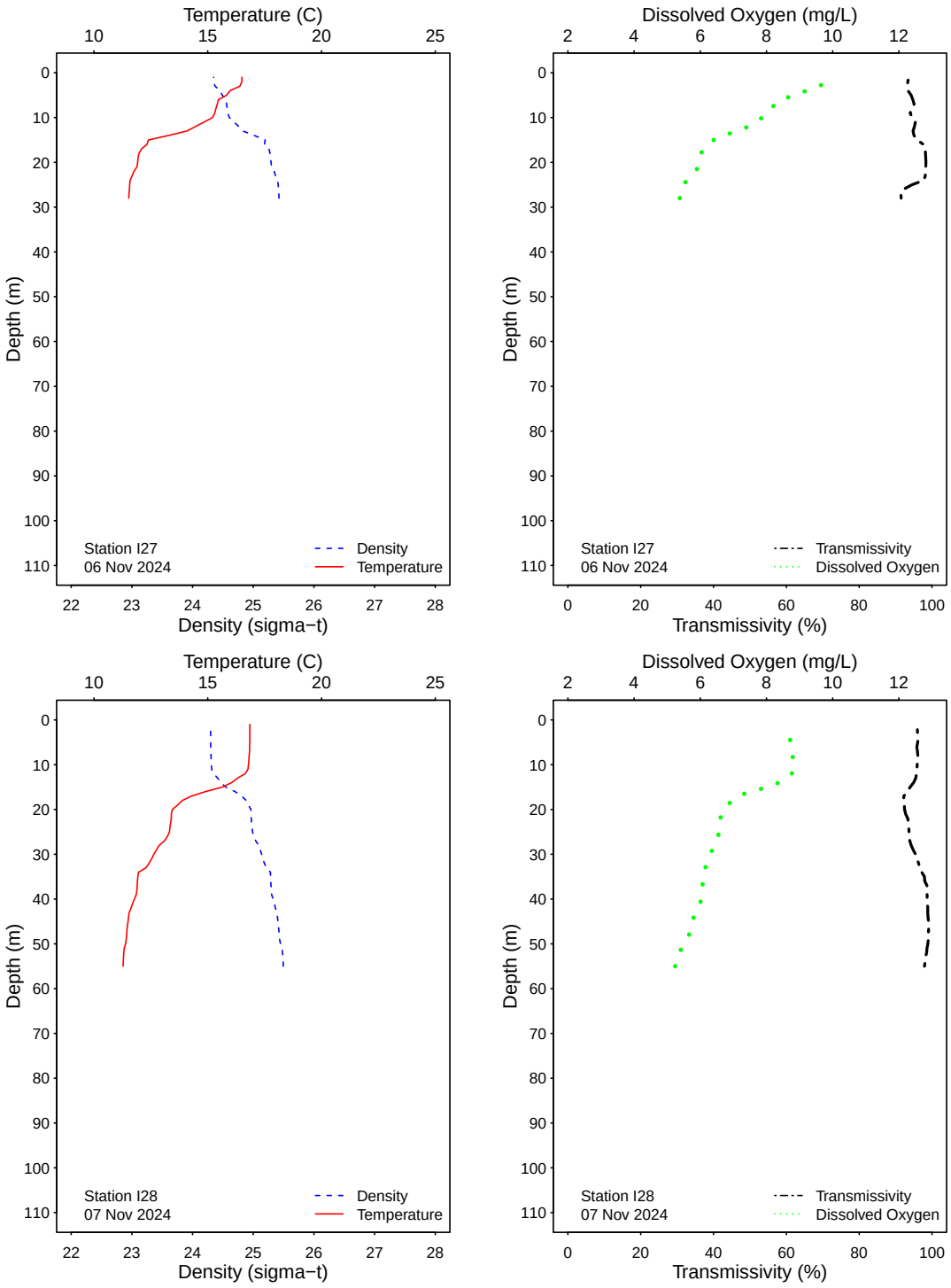

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

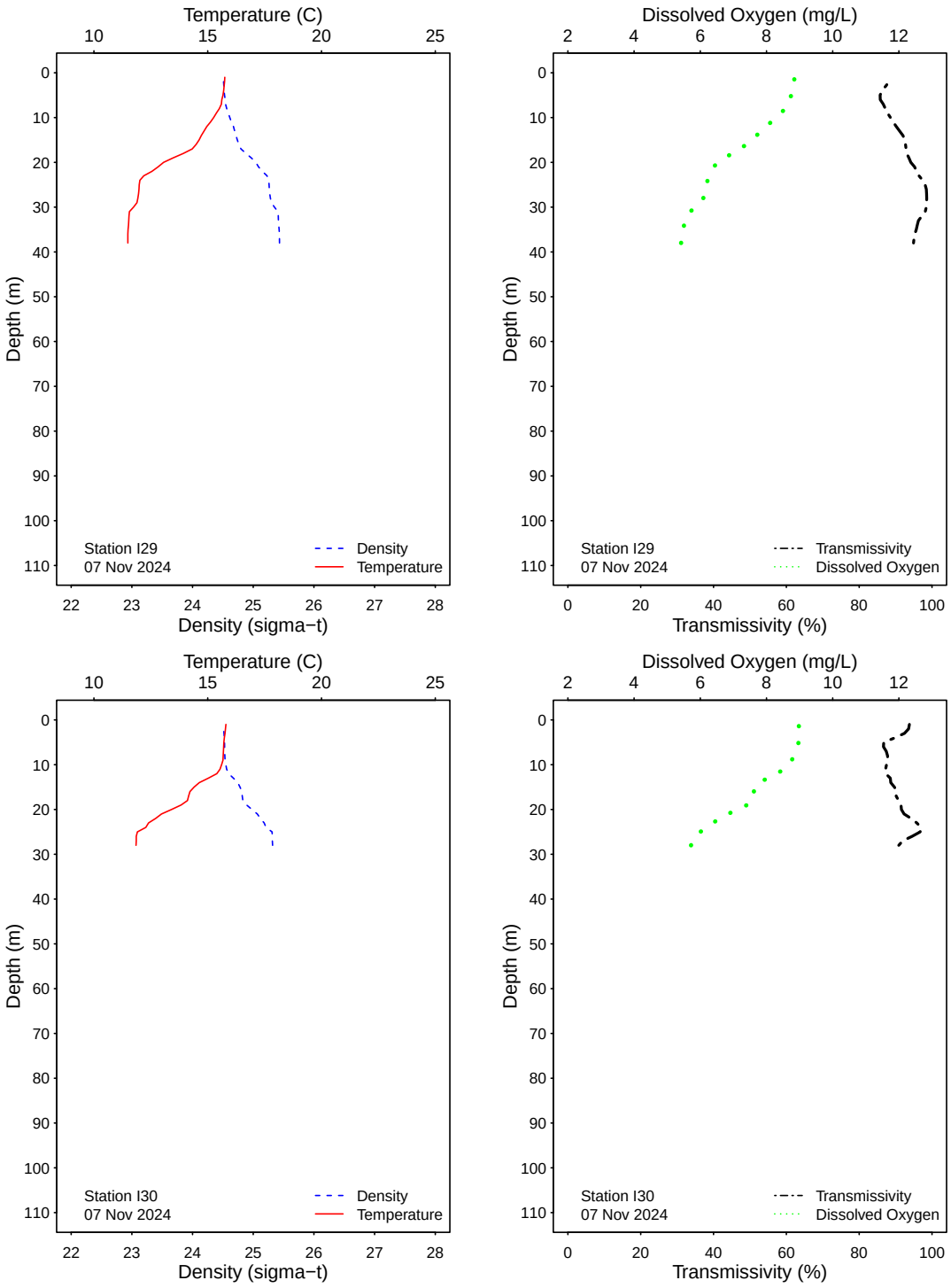

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

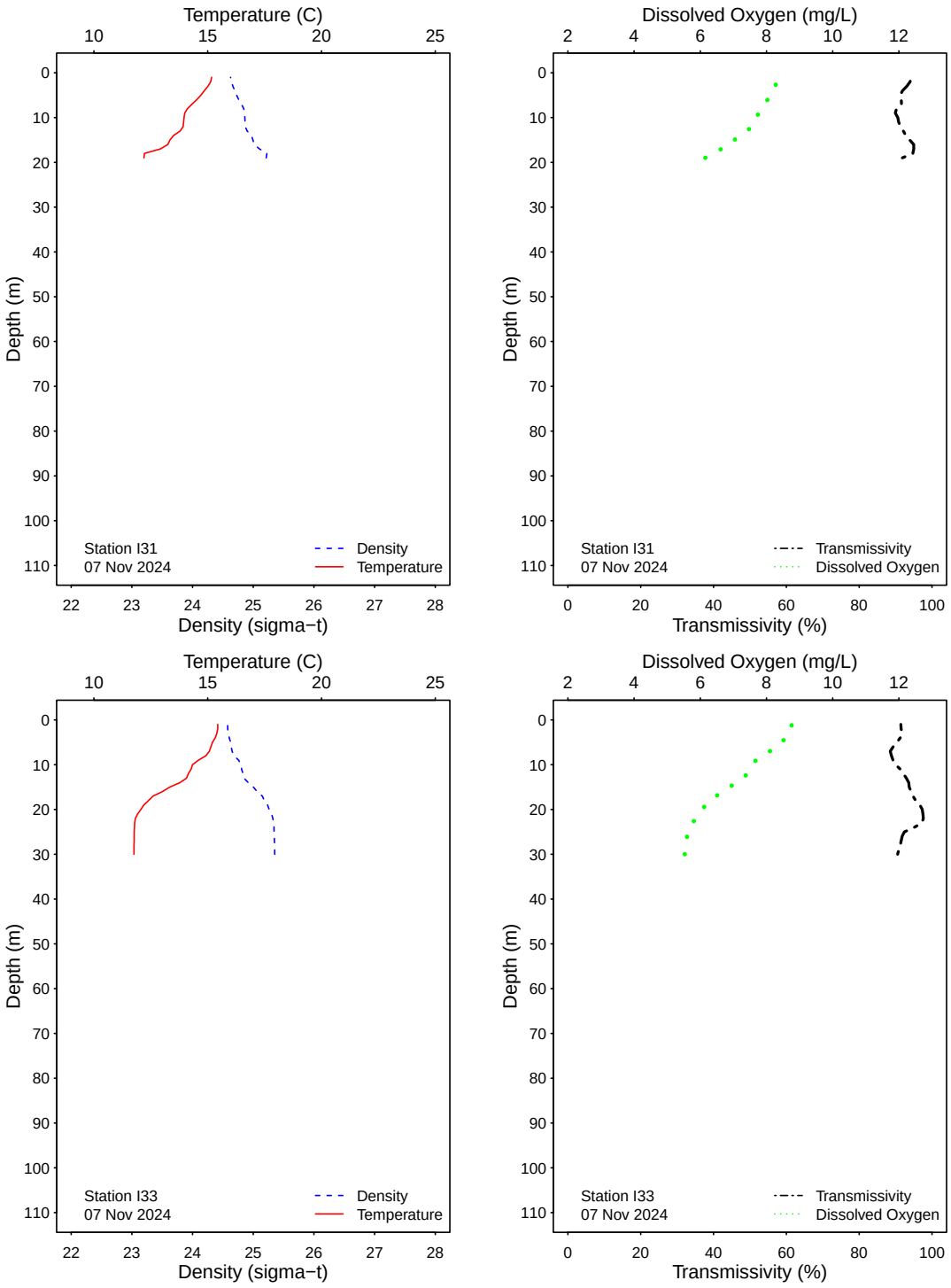

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

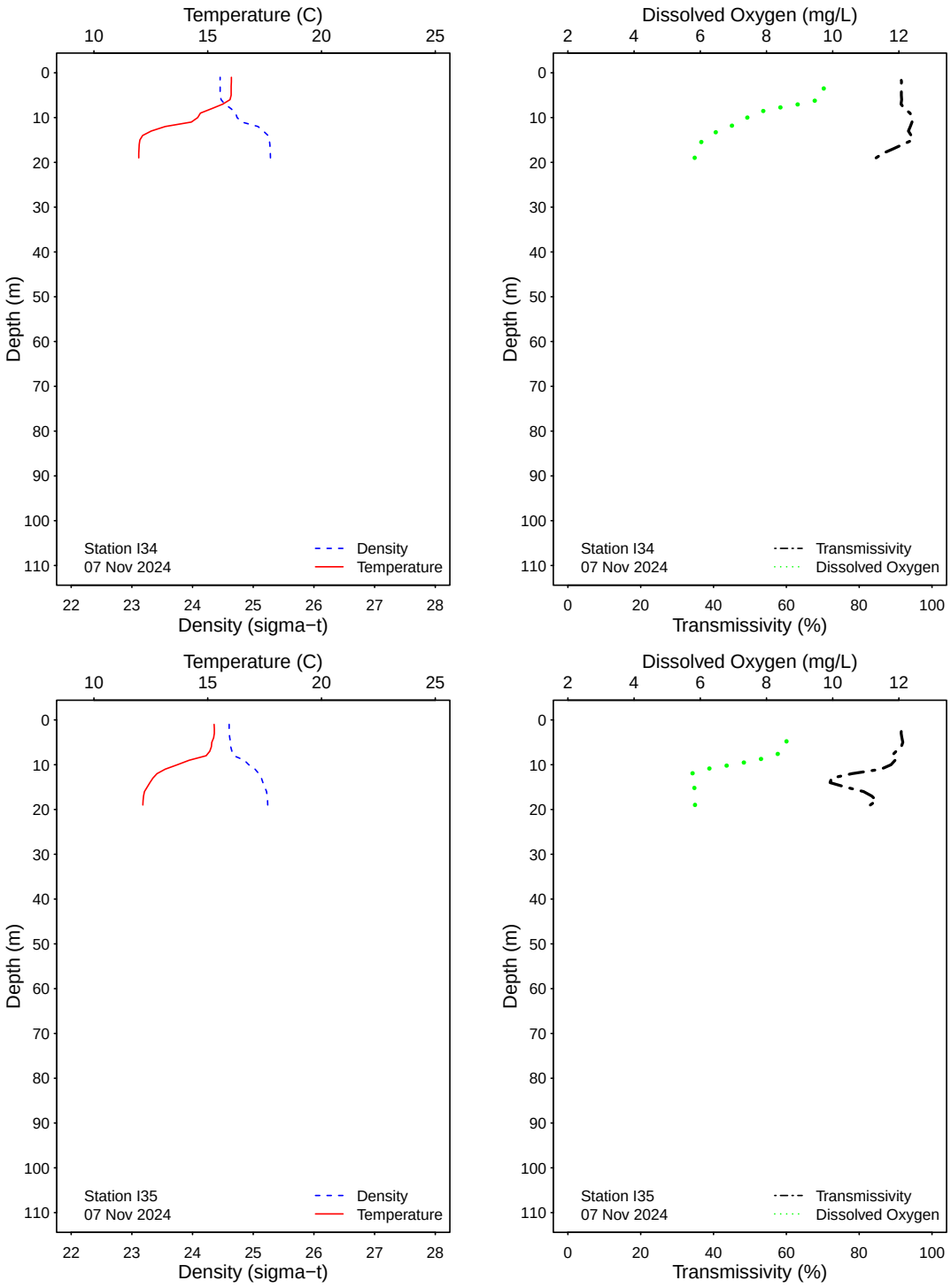

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

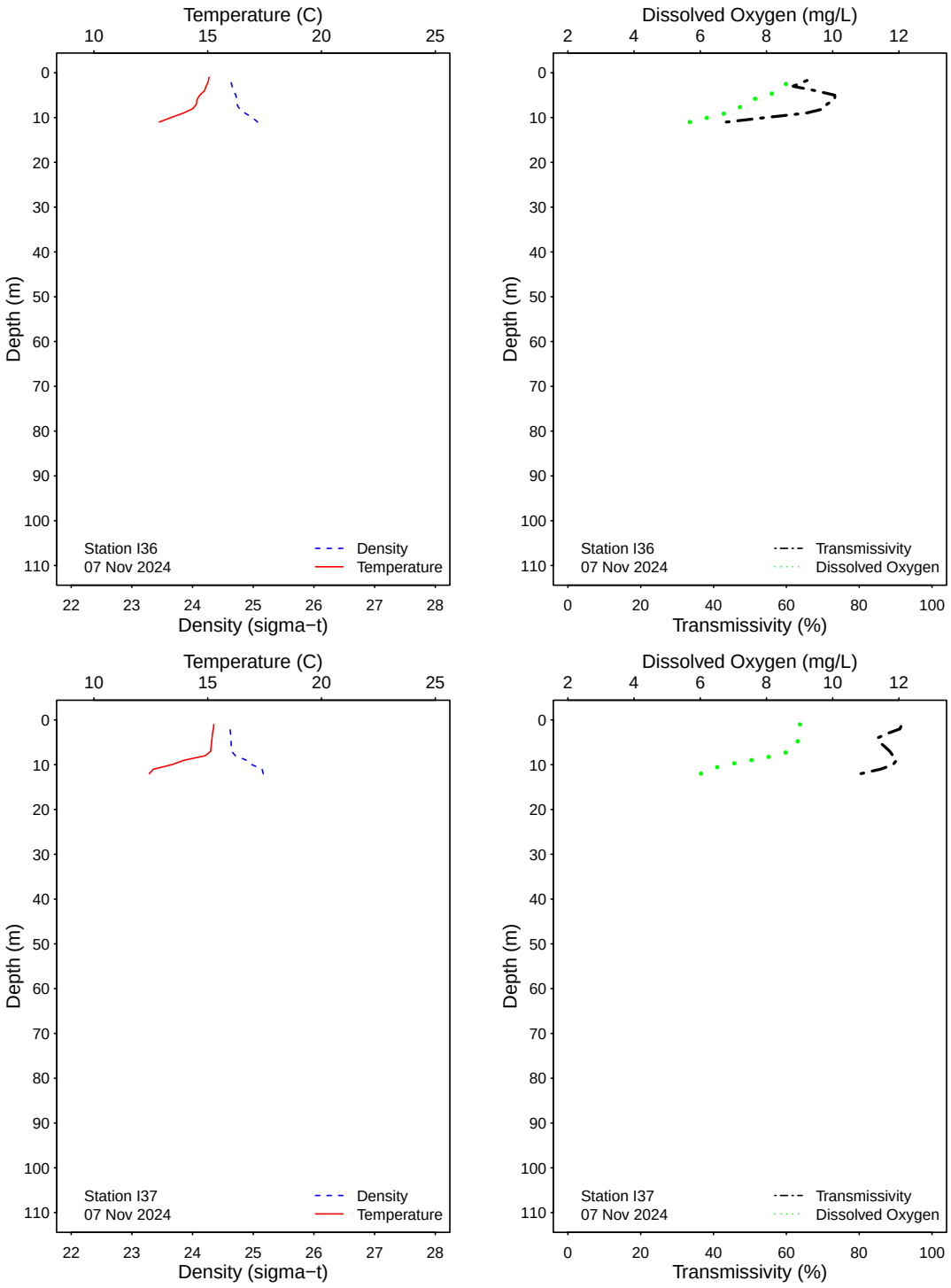

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

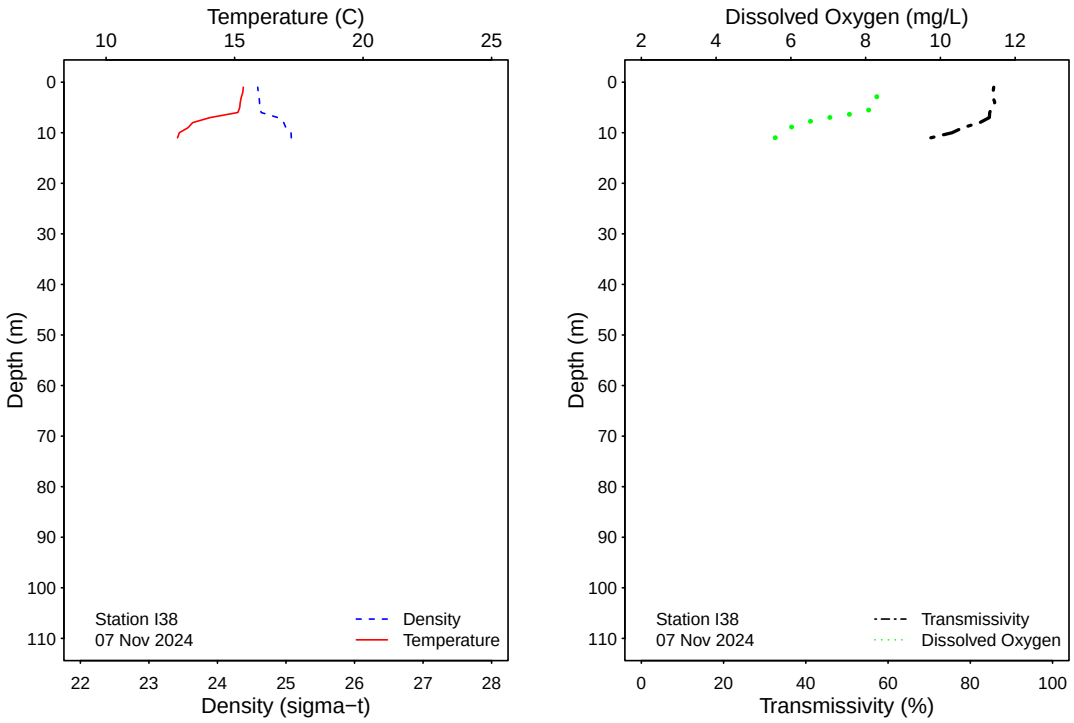

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

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APPENDIX A

Quality Assurance

Table A.1

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

Station	Date	Depth	Analyst	Procedure	Total	Fecal	Entero
I3	05 Nov 2024	18	KA	LAB DUPLICATE	20	2	2
I9	05 Nov 2024	27	KA	LAB DUPLICATE	2	2	2
I8	05 Nov 2024	37	KA	LAB DUPLICATE	42	2	4
I12	06 Nov 2024	18	ADG	LAB DUPLICATE	48	10	12
I19	04 Nov 2024	6	KT	LAB DUPLICATE	2	2	2
I19	12 Nov 2024	6	KA	LAB DUPLICATE	1000	280	44
I19	18 Nov 2024	6	ADG	LAB DUPLICATE	2200	560	120
I19	26 Nov 2024	6	ADG	LAB DUPLICATE	12	2	30
I13	06 Nov 2024	18	ADG	LAB DUPLICATE	2	2	2
I16	06 Nov 2024	18	ADG	LAB DUPLICATE	520	84	48
I40	04 Nov 2024	6	KT	LAB DUPLICATE	2	2	2
I40	12 Nov 2024	6	KA	LAB DUPLICATE	180	36	22
I40	18 Nov 2024	6	ADG	LAB DUPLICATE	120	32	10
I40	26 Nov 2024	6	ADG	LAB DUPLICATE	800	80	62
S12	05 Nov 2024		KT	FIELD DUPLICATE	20	2	4
S12	05 Nov 2024		KT	LAB DUPLICATE	20	2	2
S12	12 Nov 2024		KT	FIELD DUPLICATE	20	2	22
S12	12 Nov 2024		KT	LAB DUPLICATE	20	2	18
S12	19 Nov 2024		JF	LAB DUPLICATE	1000	220	140
S12	19 Nov 2024		JF	FIELD DUPLICATE	300	40	4
S12	26 Nov 2024		ND	FIELD DUPLICATE	20	60	10
S12	26 Nov 2024		ND	LAB DUPLICATE	18	6	16
I30	07 Nov 2024	27	KA	LAB DUPLICATE	12	2	2
I36	07 Nov 2024	11	KA	FIELD DUPLICATE	20	2	2
I36	07 Nov 2024	11	KA	LAB DUPLICATE	20	2	2

ns = not sampled
ND = no data

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