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

MAY 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

June 30, 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 May 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.
    - Data from the Mexico-based stations S0, S2, and S3 are not available on one or more days in May for the following reasons;
      - Samples collected on May 7th were not received by the USIBWC due to a road block.
      - Samples were not collected on May 28th due to staff unavailability.
  - During May**,** six of the eight shore stations located north of the border were out of compliance with the 2019 California Ocean Plan (Ocean Plan) water contact standards on one or more days as follows:
    - The 30-day running geometric mean standard for fecal coliforms was exceeded at stations S4, S5, S6, S10, and S11.

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

        - The single sample maximum (SSM) standard for fecal coliforms was exceeded at stations S4, S5, S6, S10, S11, and S12.
        - The 6-week running geometric mean standard for *Enterococcus* was exceeded at stations S4, S5, S6, S10, S11, and S12.
        - The statistical threshold value (STV) standard for *Enterococcus* was exceeded at stations S4, S5, S6, S10, S11, and S12.
        - The 30-day running median standard for total coliforms was exceeded at stations S4, S5, S6, S10, S11, and S12.
        - The STV standard for total coliforms was exceeded at stations S4, S5, S6, S10, S11, and S12.
    - A sewage-like odor was observed at stations S4 and S5 on one or more days in May.
    - Historical analyses of Ocean Plan compliance rates for the South Bay outfall shore and kelp monitoring stations, combined with the results of satellite imagery data, suggest that outflows from the Tijuana River and Los Buenos Creek, as well as surface runoff during or after rain events (storms), are likely to be the cause of impacted water quality along the shore and in near shore recreational waters in the South Bay region. See the City of San Diego's most recent *Biennial Receiving Waters Monitoring and Assessment Report for the Point Loma and South Bay Ocean Outfalls* for details (https://www.sandiego.gov/public-utilities/sustainability/ocean-monitoring/reports).

- **Kelp Bed Water Quality Sampling**
    - The seven kelp bed water quality stations (I19, I24, I25, I26, I32, I39, I40) were sampled on May 6, 13, 20, and 28.
    - During May, each 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 30-day running geometric mean standard for fecal coliforms was exceeded at stations I19, I24, I25, and I40.
        - The SSM standard for fecal coliforms was exceeded at stations I19, I24, I26, I32, and I40.
        - The 6-week running geometric mean standard for *Enterococcus* was exceeded at stations I19, I24, I25, I26, and I40.
        - The STV standard for *Enterococcus* was exceeded at stations I19, I32, and I40.
        - The 30-day running median standard for total coliforms was exceeded at stations I19, I24, I25, I26, I32, I39,and I40.
        - The STV standard for total coliforms was exceeded at stations I19, I24, I25, I26, I32, and I40.
    - Water column temperatures ranged from 10.55 to 18.18°C. The difference between surface and bottom waters ranged from 0.87 to 6.88°C.
    - Concentrations of chlorophyll *a* ranged from 0.85 to 57.59 µg/L at the kelp bed stations.
    - A sewage-like odor was observed at station I40 on one or more days in May.

- **Offshore Water Quality Sampling**
    - Quarterly offshore water quality sampling was conducted over three days during the month (i.e., May 7, 8, and 10).

- During May, one of the ten offshore stations located within State jurisdictional waters (i.e., I12, I14, I16, I18, I22, I23, I33, I36–I38) was out of compliance with the various 2019 Ocean Plan water contact standards on one or more days as follows:
    - The STV standard for total coliforms was exceeded at station I12.
- Water column temperatures ranged from 10.24 to 17.56°C at the offshore sites. The difference between surface and bottom waters ranged from 0.93 to 7.16°C.
- Chlorophyll *a* concentrations ranged from 0.18 to 10.47 µg/L at the offshore sites.
- Nothing of sewage origin was observed at SBOO offshore stations in May.
- CDOM data are available upon request.

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TABLES AND FIGURES

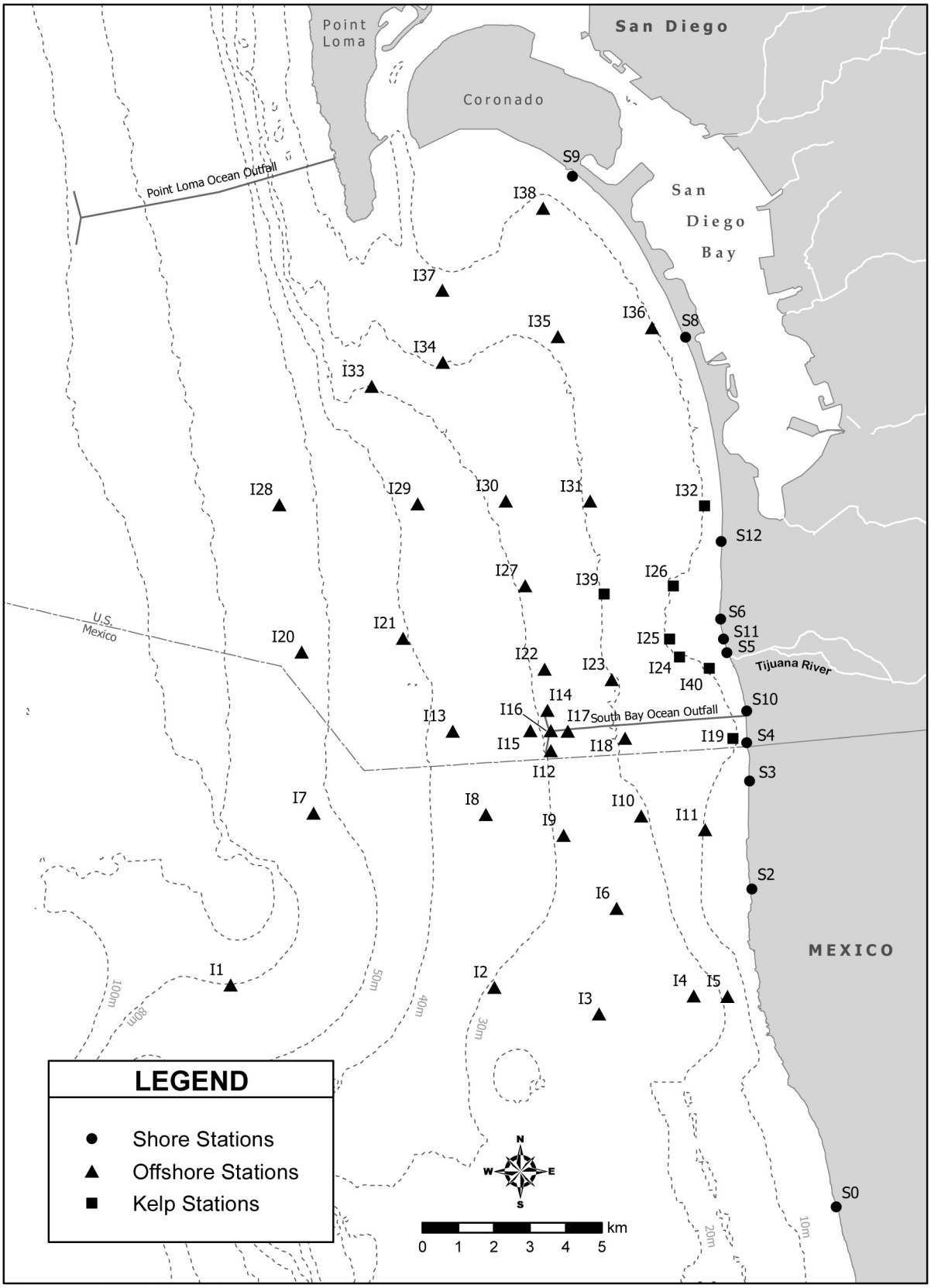

Figure 1.1 Station Map

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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 May 2024	**223**	**6016**	88	3	2	**1157**	181	85
02 May 2024	***278**	***5062**	*92	*2	*2	***2039**	*63	*82
03 May 2024	***278**	***5062**	*92	*2	*2	***2039**	*63	*82
04 May 2024	***278**	***5062**	*92	*2	*2	***2039**	*63	*82
05 May 2024	***278**	***5062**	*92	*2	*2	***2039**	*63	*82
06 May 2024	***278**	***5062**	*92	*2	*2	***2039**	*63	*82
07 May 2024	**499**	**6016**	196	2	2	**2477**	181	39
08 May 2024	**499**	**6016**	196	2	2	**2477**	181	39
09 May 2024	***424**	***12000**	***300**	*2	*2	***1670**	***332**	*46
10 May 2024	***424**	***12000**	***300**	*2	*2	***1670**	***332**	*46
11 May 2024	***424**	***12000**	***300**	*2	*2	***1670**	***332**	*46
12 May 2024	***424**	***12000**	***300**	*2	*2	***1670**	***332**	*46
13 May 2024	***424**	***12000**	***300**	*2	*2	***1670**	***332**	*46
14 May 2024	**589**	**12000**	**581**	2	2	**2389**	**680**	44
15 May 2024	**589**	**12000**	**581**	2	2	**2389**	**680**	44
16 May 2024	***953**	***12000**	***1822**	*2	*2	***1595**	***2919**	*80
17 May 2024	***953**	***12000**	***1822**	*2	*2	***1595**	***2919**	*80
18 May 2024	***953**	***12000**	***1822**	*2	*2	***1595**	***2919**	*80
19 May 2024	***953**	***12000**	***1822**	*2	*2	***1595**	***2919**	*80
20 May 2024	***953**	***12000**	***1822**	*2	*2	***1595**	***2919**	*80
21 May 2024	**489**	**7016**	**1616**	2	2	**917**	**1852**	185
22 May 2024	**489**	**7016**	**1616**	2	2	**917**	**1852**	185
23 May 2024	***1470**	***6135**	***979**	*2	*2	***2837**	***1161**	*65
24 May 2024	***1470**	***6135**	***979**	*2	*2	***2837**	***1161**	*65
25 May 2024	***1470**	***6135**	***979**	*2	*2	***2837**	***1161**	*65
26 May 2024	***1470**	***6135**	***979**	*2	*2	***2837**	***1161**	*65
27 May 2024	***1470**	***6135**	***979**	*2	*2	***2837**	***1161**	*65
28 May 2024	**2237**	**7016**	**284**	2	3	**3786**	**1852**	33
29 May 2024	**2237**	**7016**	**284**	2	3	**3786**	**1852**	33
30 May 2024	***1470**	***6135**	***506**	*2	*3	***2837**	***4772**	*30
31 May 2024	***1470**	***6135**	***506**	*2	*3	***2837**	***4772**	*30

* Geometric mean calculated using n<5

Table 2.2

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
07 May 2024	**E**	**E**	**E**	IC	IC	**E**	**E**	IC
14 May 2024	**E**	**E**	**E**	IC	IC	**E**	**E**	IC
21 May 2024	IC	**E**	**E**	IC	IC	IC	IC	**E**
28 May 2024	**E**	**E**	IC	IC	IC	**E**	**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 May 2024	**290**	**4421**	**31**	2	2	**1142**	**121**	**33**
02 May 2024	**290**	**4421**	**31**	2	2	**1142**	**121**	**33**
03 May 2024	**290**	**4421**	**31**	2	2	**1142**	**121**	**33**
04 May 2024	**290**	**4421**	**31**	2	2	**1142**	**121**	**33**
05 May 2024	**290**	**4421**	**31**	2	2	**1142**	**121**	**33**
06 May 2024	**290**	**4421**	**31**	2	2	**1142**	**121**	**33**
07 May 2024	**180**	**4198**	**37**	2	2	**718**	**183**	21
08 May 2024	**180**	**4198**	**37**	2	2	**718**	**183**	21
09 May 2024	**180**	**4198**	**37**	2	2	**718**	**183**	21
10 May 2024	**180**	**4198**	**37**	2	2	**718**	**183**	21
11 May 2024	**180**	**4198**	**37**	2	2	**718**	**183**	21
12 May 2024	**180**	**4198**	**37**	2	2	**718**	**183**	21
13 May 2024	**180**	**4198**	**37**	2	2	**718**	**183**	21
14 May 2024	**294**	**4198**	**93**	2	2	**1412**	**242**	21
15 May 2024	**294**	**4198**	**93**	2	2	**1412**	**242**	21
16 May 2024	**294**	**4198**	**93**	2	2	**1412**	**242**	21
17 May 2024	**294**	**4198**	**93**	2	2	**1412**	**242**	21
18 May 2024	**294**	**4198**	**93**	2	2	**1412**	**242**	21
19 May 2024	**294**	**4198**	**93**	2	2	**1412**	**242**	21
20 May 2024	**294**	**4198**	**93**	2	2	**1412**	**242**	21
21 May 2024	**156**	**5459**	**196**	2	2	**630**	**405**	**60**
22 May 2024	**156**	**5459**	**196**	2	2	**630**	**405**	**60**
23 May 2024	**156**	**5459**	**196**	2	2	**630**	**405**	**60**
24 May 2024	**156**	**5459**	**196**	2	2	**630**	**405**	**60**
25 May 2024	**156**	**5459**	**196**	2	2	**630**	**405**	**60**
26 May 2024	**156**	**5459**	**196**	2	2	**630**	**405**	**60**
27 May 2024	**156**	**5459**	**196**	2	2	**630**	**405**	**60**
28 May 2024	**414**	**5459**	**264**	2	3	**700**	**1282**	**56**
29 May 2024	**414**	**5459**	**264**	2	3	**700**	**1282**	**56**
30 May 2024	**414**	**5459**	**264**	2	3	**700**	**1282**	**56**
31 May 2024	**414**	**5459**	**264**	2	3	**700**	**1282**	**56**

* 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
May	**E**	**E**	**E**	IC	IC	**E**	**E**	**E**

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

Table 2.5

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 May 2024	**1400**	**16000**	**680**	20	2	**16000**	**560**	**380**
02 May 2024	***6550**	***16000**	***390**	*11	*2	***16000**	***340**	***300**
03 May 2024	***6550**	***16000**	***390**	*11	*2	***16000**	***340**	***300**
04 May 2024	***6550**	***16000**	***390**	*11	*2	***16000**	***340**	***300**
05 May 2024	***6550**	***16000**	***390**	*11	*2	***16000**	***340**	***300**
06 May 2024	***6550**	***16000**	***390**	*11	*2	***16000**	***340**	***300**
07 May 2024	**12000**	**16000**	**680**	20	2	**16000**	**560**	**220**
08 May 2024	**12000**	**16000**	**680**	20	2	**16000**	**560**	**220**
09 May 2024	***8550**	***16000**	***8050**	*11	*11	***14000**	***8060**	***210**
10 May 2024	***8550**	***16000**	***8050**	*11	*11	***14000**	***8060**	***210**
11 May 2024	***8550**	***16000**	***8050**	*11	*11	***14000**	***8060**	***210**
12 May 2024	***8550**	***16000**	***8050**	*11	*11	***14000**	***8060**	***210**
13 May 2024	***8550**	***16000**	***8050**	*11	*11	***14000**	***8060**	***210**
14 May 2024	**16000**	**16000**	**16000**	20	20	**16000**	**16000**	**220**
15 May 2024	**16000**	**16000**	**16000**	20	20	**16000**	**16000**	**220**
16 May 2024	***16000**	***16000**	***16000**	*20	*20	***14000**	***16000**	***230**
17 May 2024	***16000**	***16000**	***16000**	*20	*20	***14000**	***16000**	***230**
18 May 2024	***16000**	***16000**	***16000**	*20	*20	***14000**	***16000**	***230**
19 May 2024	***16000**	***16000**	***16000**	*20	*20	***14000**	***16000**	***230**
20 May 2024	***16000**	***16000**	***16000**	*20	*20	***14000**	***16000**	***230**
21 May 2024	**16000**	**16000**	**16000**	20	20	**12000**	**16000**	**240**
22 May 2024	**16000**	**16000**	**16000**	20	20	**12000**	**16000**	**240**
23 May 2024	***16000**	***16000**	***10600**	*20	*20	***14000**	***9100**	***230**
24 May 2024	***16000**	***16000**	***10600**	*20	*20	***14000**	***9100**	***230**
25 May 2024	***16000**	***16000**	***10600**	*20	*20	***14000**	***9100**	***230**
26 May 2024	***16000**	***16000**	***10600**	*20	*20	***14000**	***9100**	***230**
27 May 2024	***16000**	***16000**	***10600**	*20	*20	***14000**	***9100**	***230**
28 May 2024	**16000**	**16000**	**5200**	20	20	**16000**	**16000**	**220**
29 May 2024	**16000**	**16000**	**5200**	20	20	**16000**	**16000**	**220**
30 May 2024	***16000**	***16000**	***10600**	*20	*20	***14000**	***16000**	***220**
31 May 2024	***16000**	***16000**	***10600**	*20	*20	***14000**	***16000**	***220**

* Median calculated using n<5

Table 2.6

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
May	**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	14 May 2024	850	>16000	3000e	
S0	21 May 2024	855		2400e	3400e
S10	07 May 2024	816			
S10	14 May 2024	817	>16000		3000e
S10	21 May 2024	815		100e	
S10	28 May 2024	822	>16000	>12000	>12000
S11	07 May 2024	941	>16000	>12000	
S11	14 May 2024	957	>16000	>12000	>12000
S11	21 May 2024	1010	2200e	300e	220e
S11	28 May 2024	1008	>16000	>12000	
S12	07 May 2024	1003	<200	<2	<2
S12	14 May 2024	1027	240e	38e	36e
S12	21 May 2024	1049	>16000		1200e
S12	28 May 2024	1053	<20	<2	4e
S2	14 May 2024	955	20e	2e	8e
S2	21 May 2024	1000	20e	8e	16e
S3	14 May 2024	925	<20	<2	6e
S3	21 May 2024	930	>16000		1000e
S4	07 May 2024	828	>16000		
S4	14 May 2024	834	>16000	2200e	800e
S4	21 May 2024	840	240e	34e	8e
S4	28 May 2024	840	>16000	>12000	>12000
S5	07 May 2024	926	>16000	>12000	
S5	14 May 2024	935	>16000	>12000	>12000
S5	21 May 2024	945			
S5	28 May 2024	945	>16000	>12000	>12000
S6	07 May 2024	951	>16000		300e
S6	14 May 2024	1011	>16000		>12000
S6	21 May 2024	1031			360e
S6	28 May 2024	1024	8e	2e	12e
S8	07 May 2024	1019	<200	<2	<2
S8	14 May 2024	1048	<20	<2	<2
S8	21 May 2024	1113	<20	2e	2e
S8	28 May 2024	1115	<20	4e	<2
S9	07 May 2024	1034	<200	2e	2e
S9	14 May 2024	1111	<20	<2	<2
S9	21 May 2024	1134	<20	<2	<2
S9	28 May 2024	1142	<20	8e	32e

ns = not sampled
ND = no data

Comments:

7-May-2024	S0	Sample not collected due to road block
7-May-2024	S2	Sample not collected due to road block
7-May-2024	S3	Sample not collected due to road block
28-May-2024	S0	Samplers in Mexico unavailable
28-May-2024	S2	Samplers in Mexico unavailable
28-May-2024	S3	Samplers in Mexico unavailable

Table 2.8

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

Station	Date	Parameter	Value
S0	14 May 2024	Arrive Time	850
S0	14 May 2024	Wind Speed (kts)	1.6
S0	14 May 2024	Wind Dir	NE
S0	14 May 2024	Animal Life	Seagull-10;
S0	14 May 2024	Floatables	None
S0	14 May 2024	Current Direction	N
S0	14 May 2024	Water Temp (C)	13
S0	14 May 2024	High Tide Time	151
S0	14 May 2024	Low Tide Time	955
S0	14 May 2024	Comments	Water clear; Trash-0; Kelp;Algae; 0.5 L/sec water flowing from Storm Drain
S0	21 May 2024	Arrive Time	855
S0	21 May 2024	Wind Speed (kts)	1.6
S0	21 May 2024	Wind Dir	NE
S0	21 May 2024	Animal Life	Dog-2; Seagull-10;
S0	21 May 2024	Floatables	None
S0	21 May 2024	Current Direction	N
S0	21 May 2024	Water Temp (C)	12
S0	21 May 2024	High Tide Time	856
S0	21 May 2024	Low Tide Time	258
S0	21 May 2024	Comments	Water clear; Trash-0; Kelp;Algae; Person/Walker/Jogger-2; 0.5 L/sec water flowing from storm drain
S2	14 May 2024	Arrive Time	955
S2	14 May 2024	Wind Speed (kts)	1.3
S2	14 May 2024	Wind Dir	NE
S2	14 May 2024	Animal Life	Dog-4; Seagull-10;
S2	14 May 2024	Floatables	None
S2	14 May 2024	Current Direction	N
S2	14 May 2024	Water Temp (C)	13
S2	14 May 2024	High Tide Time	151
S2	14 May 2024	Low Tide Time	955
S2	14 May 2024	Comments	Water clear; Trash-0; Algae;Kelp; Person/Walker/Jogger-10; No water flow from storm drain
S2	21 May 2024	Arrive Time	1000
S2	21 May 2024	Wind Speed (kts)	1.8
S2	21 May 2024	Wind Dir	NE
S2	21 May 2024	Animal Life	Dog-4; Seagull-10;
S2	21 May 2024	Floatables	None
S2	21 May 2024	Current Direction	N
S2	21 May 2024	Water Temp (C)	12
S2	21 May 2024	High Tide Time	856
S2	21 May 2024	Low Tide Time	258
S2	21 May 2024	Comments	Water clear; Trash-0; Kelp;Algae; Person/Walker/Jogger-5; No water flow from storm drain
S3	14 May 2024	Arrive Time	925
S3	14 May 2024	Wind Speed (kts)	1.4
S3	14 May 2024	Wind Dir	NE
S3	14 May 2024	Animal Life	Dog-4; Seagull-5;
S3	14 May 2024	Floatables	None
S3	14 May 2024	Current Direction	N
S3	14 May 2024	Water Temp (C)	13
S3	14 May 2024	High Tide Time	151

Station	Date	Parameter	Value
S3	14 May 2024	Low Tide Time	955
S3	14 May 2024	Comments	Water clear; Trash-0; Kelp;Algae; Person/Walker/Jogger-10; No water flow from storm drain
S3	21 May 2024	Arrive Time	930
S3	21 May 2024	Wind Speed (kts)	1.4
S3	21 May 2024	Wind Dir	NE
S3	21 May 2024	Animal Life	Dog-2; Seagull-5;
S3	21 May 2024	Floatables	None
S3	21 May 2024	Current Direction	N
S3	21 May 2024	Water Temp (C)	12
S3	21 May 2024	High Tide Time	856
S3	21 May 2024	Low Tide Time	258
S3	21 May 2024	Comments	Water clear; Trash-0; Algae;Kelp; Person/Walker/Jogger-5; No water flow from storm drain
S4	07 May 2024	Arrive Time	828
S4	07 May 2024	Wind Speed (kts)	3.4
S4	07 May 2024	Wind Dir	W
S4	07 May 2024	Animal Life	
S4	07 May 2024	Floatables	None
S4	07 May 2024	Current Direction	S
S4	07 May 2024	Water Temp (C)	16.2
S4	07 May 2024	High Tide Time	928
S4	07 May 2024	Low Tide Time	327
S4	07 May 2024	Comments	Water clear; Trash-3; Kelp;Seagrass;Debris; Sewage-like odor
S4	14 May 2024	Arrive Time	834
S4	14 May 2024	Wind Speed (kts)	1.9
S4	14 May 2024	Wind Dir	SW
S4	14 May 2024	Animal Life	
S4	14 May 2024	Floatables	None
S4	14 May 2024	Current Direction	S
S4	14 May 2024	Water Temp (C)	9.1
S4	14 May 2024	High Tide Time	151
S4	14 May 2024	Low Tide Time	955
S4	14 May 2024	Comments	Water clear; Trash-3; Kelp;Debris;Seagrass
S4	21 May 2024	Arrive Time	848
S4	21 May 2024	Wind Speed (kts)	4
S4	21 May 2024	Wind Dir	W
S4	21 May 2024	Animal Life	
S4	21 May 2024	Floatables	None
S4	21 May 2024	Current Direction	W
S4	21 May 2024	Water Temp (C)	13.1
S4	21 May 2024	High Tide Time	856
S4	21 May 2024	Low Tide Time	258
S4	21 May 2024	Comments	Water clear; Trash-1; Kelp;Seagrass
S4	28 May 2024	Arrive Time	840
S4	28 May 2024	Wind Speed (kts)	0
S4	28 May 2024	Wind Dir	XX
S4	28 May 2024	Animal Life	
S4	28 May 2024	Floatables	Foam
S4	28 May 2024	Current Direction	S
S4	28 May 2024	Water Temp (C)	14.2
S4	28 May 2024	High Tide Time	2
S4	28 May 2024	Low Tide Time	805
S4	28 May 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris

Station	Date	Parameter	Value
S10	07 May 2024	Arrive Time	816
S10	07 May 2024	Wind Speed (kts)	3.3
S10	07 May 2024	Wind Dir	W
S10	07 May 2024	Animal Life	
S10	07 May 2024	Floatables	None
S10	07 May 2024	Current Direction	S
S10	07 May 2024	Water Temp (C)	10.1
S10	07 May 2024	High Tide Time	928
S10	07 May 2024	Low Tide Time	327
S10	07 May 2024	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S10	14 May 2024	Arrive Time	817
S10	14 May 2024	Wind Speed (kts)	1.9
S10	14 May 2024	Wind Dir	W
S10	14 May 2024	Animal Life	
S10	14 May 2024	Floatables	None
S10	14 May 2024	Current Direction	S
S10	14 May 2024	Water Temp (C)	12.3
S10	14 May 2024	High Tide Time	151
S10	14 May 2024	Low Tide Time	955
S10	14 May 2024	Comments	Water clear; Trash-3; Kelp;Seagrass;Debris
S10	21 May 2024	Arrive Time	815
S10	21 May 2024	Wind Speed (kts)	2.3
S10	21 May 2024	Wind Dir	NW
S10	21 May 2024	Animal Life	
S10	21 May 2024	Floatables	Foam
S10	21 May 2024	Current Direction	W
S10	21 May 2024	Water Temp (C)	10.2
S10	21 May 2024	High Tide Time	856
S10	21 May 2024	Low Tide Time	258
S10	21 May 2024	Comments	Water clear; Trash-2; Seagrass;Kelp;Debris
S10	28 May 2024	Arrive Time	822
S10	28 May 2024	Wind Speed (kts)	1.5
S10	28 May 2024	Wind Dir	W
S10	28 May 2024	Animal Life	
S10	28 May 2024	Floatables	None
S10	28 May 2024	Current Direction	S
S10	28 May 2024	Water Temp (C)	16
S10	28 May 2024	High Tide Time	2
S10	28 May 2024	Low Tide Time	805
S10	28 May 2024	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S5	07 May 2024	Arrive Time	926
S5	07 May 2024	Wind Speed (kts)	5.2
S5	07 May 2024	Wind Dir	W
S5	07 May 2024	Animal Life	
S5	07 May 2024	Floatables	None
S5	07 May 2024	Current Direction	S
S5	07 May 2024	Water Temp (C)	14.7
S5	07 May 2024	High Tide Time	928
S5	07 May 2024	Low Tide Time	327
S5	07 May 2024	Comments	Water clear; Trash-2
S5	14 May 2024	Arrive Time	935
S5	14 May 2024	Wind Speed (kts)	2.9
S5	14 May 2024	Wind Dir	NW
S5	14 May 2024	Animal Life	Bird-1;
S5	14 May 2024	Floatables	Foam
S5	14 May 2024	Current Direction	S

Station	Date	Parameter	Value
S5	14 May 2024	Water Temp (C)	16.7
S5	14 May 2024	High Tide Time	151
S5	14 May 2024	Low Tide Time	955
S5	14 May 2024	Comments	Water turbid; Trash-1; Kelp; Sewage-like odor
S5	21 May 2024	Arrive Time	945
S5	21 May 2024	Wind Speed (kts)	5.6
S5	21 May 2024	Wind Dir	W
S5	21 May 2024	Animal Life	
S5	21 May 2024	Floatables	None
S5	21 May 2024	Current Direction	W
S5	21 May 2024	Water Temp (C)	11.6
S5	21 May 2024	High Tide Time	856
S5	21 May 2024	Low Tide Time	258
S5	21 May 2024	Comments	Water clear; Trash-2; Kelp;Seagrass
S5	28 May 2024	Arrive Time	945
S5	28 May 2024	Wind Speed (kts)	2.7
S5	28 May 2024	Wind Dir	W
S5	28 May 2024	Animal Life	Bird-2;
S5	28 May 2024	Floatables	Foam
S5	28 May 2024	Current Direction	S
S5	28 May 2024	Water Temp (C)	14.7
S5	28 May 2024	High Tide Time	2
S5	28 May 2024	Low Tide Time	805
S5	28 May 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris; Sewage-like odor
S11	07 May 2024	Arrive Time	941
S11	07 May 2024	Wind Speed (kts)	6
S11	07 May 2024	Wind Dir	W
S11	07 May 2024	Animal Life	
S11	07 May 2024	Floatables	None
S11	07 May 2024	Current Direction	S
S11	07 May 2024	Water Temp (C)	13.1
S11	07 May 2024	High Tide Time	928
S11	07 May 2024	Low Tide Time	327
S11	07 May 2024	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S11	14 May 2024	Arrive Time	957
S11	14 May 2024	Wind Speed (kts)	4.6
S11	14 May 2024	Wind Dir	W
S11	14 May 2024	Animal Life	
S11	14 May 2024	Floatables	None
S11	14 May 2024	Current Direction	S
S11	14 May 2024	Water Temp (C)	14.4
S11	14 May 2024	High Tide Time	151
S11	14 May 2024	Low Tide Time	955
S11	14 May 2024	Comments	Water clear; Trash-2; Kelp
S11	21 May 2024	Arrive Time	1010
S11	21 May 2024	Wind Speed (kts)	5.6
S11	21 May 2024	Wind Dir	W
S11	21 May 2024	Animal Life	
S11	21 May 2024	Floatables	None
S11	21 May 2024	Current Direction	W
S11	21 May 2024	Water Temp (C)	11.3
S11	21 May 2024	High Tide Time	856
S11	21 May 2024	Low Tide Time	258
S11	21 May 2024	Comments	Water clear; Trash-1; Kelp;Seagrass

Station	Date	Parameter	Value
S11	28 May 2024	Arrive Time	1008
S11	28 May 2024	Wind Speed (kts)	3.4
S11	28 May 2024	Wind Dir	W
S11	28 May 2024	Animal Life	
S11	28 May 2024	Floatables	Foam
S11	28 May 2024	Current Direction	S
S11	28 May 2024	Water Temp (C)	16
S11	28 May 2024	High Tide Time	2
S11	28 May 2024	Low Tide Time	805
S11	28 May 2024	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S6	07 May 2024	Arrive Time	951
S6	07 May 2024	Wind Speed (kts)	5.4
S6	07 May 2024	Wind Dir	W
S6	07 May 2024	Animal Life	
S6	07 May 2024	Floatables	None
S6	07 May 2024	Current Direction	S
S6	07 May 2024	Water Temp (C)	14.4
S6	07 May 2024	High Tide Time	928
S6	07 May 2024	Low Tide Time	327
S6	07 May 2024	Comments	Water clear; Trash-1; Kelp;Algae
S6	14 May 2024	Arrive Time	1011
S6	14 May 2024	Wind Speed (kts)	4.6
S6	14 May 2024	Wind Dir	W
S6	14 May 2024	Animal Life	
S6	14 May 2024	Floatables	None
S6	14 May 2024	Current Direction	S
S6	14 May 2024	Water Temp (C)	15.2
S6	14 May 2024	High Tide Time	151
S6	14 May 2024	Low Tide Time	955
S6	14 May 2024	Comments	Water clear; Trash-1; Algae;Kelp;Seagrass
S6	21 May 2024	Arrive Time	1031
S6	21 May 2024	Wind Speed (kts)	5.8
S6	21 May 2024	Wind Dir	W
S6	21 May 2024	Animal Life	
S6	21 May 2024	Floatables	None
S6	21 May 2024	Current Direction	W
S6	21 May 2024	Water Temp (C)	11.5
S6	21 May 2024	High Tide Time	856
S6	21 May 2024	Low Tide Time	258
S6	21 May 2024	Comments	Water clear; Trash-2
S6	28 May 2024	Arrive Time	1024
S6	28 May 2024	Wind Speed (kts)	5.6
S6	28 May 2024	Wind Dir	W
S6	28 May 2024	Animal Life	
S6	28 May 2024	Floatables	Foam
S6	28 May 2024	Current Direction	S
S6	28 May 2024	Water Temp (C)	14.9
S6	28 May 2024	High Tide Time	2
S6	28 May 2024	Low Tide Time	805
S6	28 May 2024	Comments	Water clear; Trash-1; Algae;Kelp;Seagrass;Debris
S12	07 May 2024	Arrive Time	1003
S12	07 May 2024	Wind Speed (kts)	6.6
S12	07 May 2024	Wind Dir	W
S12	07 May 2024	Animal Life	
S12	07 May 2024	Floatables	None
S12	07 May 2024	Current Direction	S

Station	Date	Parameter	Value
S12	07 May 2024	Water Temp (C)	15
S12	07 May 2024	High Tide Time	928
S12	07 May 2024	Low Tide Time	327
S12	07 May 2024	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris; Person/Walker/Jogger-1
S12	14 May 2024	Arrive Time	1027
S12	14 May 2024	Wind Speed (kts)	4.6
S12	14 May 2024	Wind Dir	SW
S12	14 May 2024	Animal Life	
S12	14 May 2024	Floatables	None
S12	14 May 2024	Current Direction	S
S12	14 May 2024	Water Temp (C)	10.6
S12	14 May 2024	High Tide Time	151
S12	14 May 2024	Low Tide Time	955
S12	14 May 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris; Person/Walker/Jogger-1
S12	21 May 2024	Arrive Time	1049
S12	21 May 2024	Wind Speed (kts)	6.2
S12	21 May 2024	Wind Dir	W
S12	21 May 2024	Animal Life	
S12	21 May 2024	Floatables	None
S12	21 May 2024	Current Direction	W
S12	21 May 2024	Water Temp (C)	12.9
S12	21 May 2024	High Tide Time	856
S12	21 May 2024	Low Tide Time	258
S12	21 May 2024	Comments	Water clear; Trash-1; Seagrass;Kelp;Debris
S12	28 May 2024	Arrive Time	1053
S12	28 May 2024	Wind Speed (kts)	4.8
S12	28 May 2024	Wind Dir	W
S12	28 May 2024	Animal Life	Dog-1;
S12	28 May 2024	Floatables	Foam
S12	28 May 2024	Current Direction	S
S12	28 May 2024	Water Temp (C)	14.9
S12	28 May 2024	High Tide Time	2
S12	28 May 2024	Low Tide Time	805
S12	28 May 2024	Comments	Water clear; Trash-1; Seagrass;Kelp;Debris; Person/Walker/Jogger-1
S8	07 May 2024	Arrive Time	1019
S8	07 May 2024	Wind Speed (kts)	6.9
S8	07 May 2024	Wind Dir	W
S8	07 May 2024	Animal Life	
S8	07 May 2024	Floatables	Foam
S8	07 May 2024	Current Direction	S
S8	07 May 2024	Water Temp (C)	15.1
S8	07 May 2024	High Tide Time	928
S8	07 May 2024	Low Tide Time	327
S8	07 May 2024	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S8	14 May 2024	Arrive Time	1048
S8	14 May 2024	Wind Speed (kts)	6.6
S8	14 May 2024	Wind Dir	W
S8	14 May 2024	Animal Life	
S8	14 May 2024	Floatables	None
S8	14 May 2024	Current Direction	S
S8	14 May 2024	Water Temp (C)	9.6
S8	14 May 2024	High Tide Time	151
S8	14 May 2024	Low Tide Time	955

Station	Date	Parameter	Value
S8	14 May 2024	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris; Person/Walker/Jogger-2
S8	21 May 2024	Arrive Time	1113
S8	21 May 2024	Wind Speed (kts)	7.3
S8	21 May 2024	Wind Dir	W
S8	21 May 2024	Animal Life	
S8	21 May 2024	Floatables	Foam
S8	21 May 2024	Current Direction	W
S8	21 May 2024	Water Temp (C)	15.9
S8	21 May 2024	High Tide Time	856
S8	21 May 2024	Low Tide Time	258
S8	21 May 2024	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S8	28 May 2024	Arrive Time	1115
S8	28 May 2024	Wind Speed (kts)	6.9
S8	28 May 2024	Wind Dir	W
S8	28 May 2024	Animal Life	
S8	28 May 2024	Floatables	Foam
S8	28 May 2024	Current Direction	S
S8	28 May 2024	Water Temp (C)	15.6
S8	28 May 2024	High Tide Time	2
S8	28 May 2024	Low Tide Time	805
S8	28 May 2024	Comments	Water clear; Trash-2; Seagrass;Kelp;Debris
S9	07 May 2024	Arrive Time	1034
S9	07 May 2024	Wind Speed (kts)	6.6
S9	07 May 2024	Wind Dir	W
S9	07 May 2024	Animal Life	
S9	07 May 2024	Floatables	None
S9	07 May 2024	Current Direction	S
S9	07 May 2024	Water Temp (C)	16.3
S9	07 May 2024	High Tide Time	928
S9	07 May 2024	Low Tide Time	327
S9	07 May 2024	Comments	Water clear; Trash-1; Kelp;Seagrass
S9	14 May 2024	Arrive Time	1111
S9	14 May 2024	Wind Speed (kts)	4.8
S9	14 May 2024	Wind Dir	S
S9	14 May 2024	Animal Life	Bird-1;
S9	14 May 2024	Floatables	Foam
S9	14 May 2024	Current Direction	S
S9	14 May 2024	Water Temp (C)	12.2
S9	14 May 2024	High Tide Time	151
S9	14 May 2024	Low Tide Time	955
S9	14 May 2024	Comments	Water clear; Trash-1; Seagrass;Debris; Person/Walker/Jogger-2
S9	21 May 2024	Arrive Time	1134
S9	21 May 2024	Wind Speed (kts)	6.4
S9	21 May 2024	Wind Dir	W
S9	21 May 2024	Animal Life	Bird-2;
S9	21 May 2024	Floatables	None
S9	21 May 2024	Current Direction	W
S9	21 May 2024	Water Temp (C)	11.6
S9	21 May 2024	High Tide Time	856
S9	21 May 2024	Low Tide Time	258
S9	21 May 2024	Comments	Water clear; Boogie boarder/Swimmer-3; Trash-1; Kelp;Seagrass
S9	28 May 2024	Arrive Time	1142

Station	Date	Parameter	Value
S9	28 May 2024	Wind Speed (kts)	5
S9	28 May 2024	Wind Dir	W
S9	28 May 2024	Animal Life	Bird-1;
S9	28 May 2024	Floatables	Foam
S9	28 May 2024	Current Direction	S
S9	28 May 2024	Water Temp (C)	17.9
S9	28 May 2024	High Tide Time	2
S9	28 May 2024	Low Tide Time	805
S9	28 May 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris

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 May 2024	**316**	**218**	**210**	55	17	6	**284**
02 May 2024	***339**	*198	***235**	*38	*10	*4	*182
03 May 2024	***339**	*198	***235**	*38	*10	*4	*182
04 May 2024	***339**	*198	***235**	*38	*10	*4	*182
05 May 2024	***339**	*198	***235**	*38	*10	*4	*182
06 May 2024	**600**	79	90	21	7	4	90
07 May 2024	**600**	79	90	21	7	4	90
08 May 2024	**600**	79	90	21	7	4	90
09 May 2024	***698**	*30	*32	*35	*8	*3	*61
10 May 2024	***698**	*30	*32	*35	*8	*3	*61
11 May 2024	***698**	*30	*32	*35	*8	*3	*61
12 May 2024	***698**	*30	*32	*35	*8	*3	*61
13 May 2024	**434**	63	42	33	8	3	133
14 May 2024	**434**	63	42	33	8	3	133
15 May 2024	**434**	63	42	33	8	3	133
16 May 2024	***297**	*148	*89	*66	*11	*3	***209**
17 May 2024	***297**	*148	*89	*66	*11	*3	***209**
18 May 2024	***297**	*148	*89	*66	*11	*3	***209**
19 May 2024	***297**	*148	*89	*66	*11	*3	***209**
20 May 2024	**377**	142	80	84	35	3	**290**
21 May 2024	**377**	142	80	84	35	3	**290**
22 May 2024	**377**	142	80	84	35	3	**290**
23 May 2024	***1063**	*98	*29	*37	*21	*2	***287**
24 May 2024	***1063**	*98	*29	*37	*21	*2	***287**
25 May 2024	***1063**	*98	*29	*37	*21	*2	***287**
26 May 2024	***1063**	*98	*29	*37	*21	*2	***287**
27 May 2024	***1063**	*98	*29	*37	*21	*2	***287**
28 May 2024	**1053**	59	20	21	21	2	**377**
29 May 2024	**1053**	59	20	21	21	2	**377**
30 May 2024	***785**	*39	*15	*12	*33	*2	***373**
31 May 2024	***785**	*39	*15	*12	*33	*2	***373**

* 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
06 May 2024	**E**	IC	IC	IC	IC	IC	IC
13 May 2024	IC	**E**	IC	IC	IC	IC	**E**
20 May 2024	**E**	IC	IC	**E**	**E**	IC	**E**
28 May 2024	**E**	IC	IC	IC	IC	IC	**E**

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

Table 3.3

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

Date	I19	I24	I25	I26	I32	I39	I40
01 May 2024	**212**	**132**	**132**	**31**	14	4	**229**
02 May 2024	**212**	**132**	**132**	**31**	14	4	**229**
03 May 2024	**212**	**132**	**132**	**31**	14	4	**229**
04 May 2024	**212**	**132**	**132**	**31**	14	4	**229**
05 May 2024	**212**	**132**	**132**	**31**	14	4	**229**
06 May 2024	**300**	**73**	**73**	21	10	3	**125**
07 May 2024	**202**	**51**	**55**	16	9	4	**77**
08 May 2024	**202**	**51**	**55**	16	9	4	**77**
09 May 2024	**202**	**51**	**55**	16	9	4	**77**
10 May 2024	**202**	**51**	**55**	16	9	4	**77**
11 May 2024	**202**	**51**	**55**	16	9	4	**77**
12 May 2024	**202**	**51**	**55**	16	9	4	**77**
13 May 2024	**172**	**83**	**59**	16	8	3	**123**
14 May 2024	**207**	**78**	**65**	12	6	3	**99**
15 May 2024	**207**	**78**	**65**	12	6	3	**99**
16 May 2024	**207**	**78**	**65**	12	6	3	**99**
17 May 2024	**207**	**78**	**65**	12	6	3	**99**
18 May 2024	**207**	**78**	**65**	12	6	3	**99**
19 May 2024	**207**	**78**	**65**	12	6	3	**99**
20 May 2024	**212**	**65**	**55**	15	12	3	**113**
21 May 2024	**218**	**45**	**40**	21	15	3	**114**
22 May 2024	**218**	**45**	**40**	21	15	3	**114**
23 May 2024	**218**	**45**	**40**	21	15	3	**114**
24 May 2024	**218**	**45**	**40**	21	15	3	**114**
25 May 2024	**218**	**45**	**40**	21	15	3	**114**
26 May 2024	**218**	**45**	**40**	21	15	3	**114**
27 May 2024	**218**	**45**	**40**	21	15	3	**114**
28 May 2024	**232**	**55**	**42**	21	17	3	**198**
29 May 2024	**232**	**55**	**42**	21	17	3	**198**
30 May 2024	**232**	**55**	**42**	21	17	3	**198**
31 May 2024	**232**	**55**	**42**	21	17	3	**198**

* 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
May	**E**	IC	IC	IC	**E**	IC	**E**

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

Table 3.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO kelp stations. Data are based on the median of the five most recent samples from each site 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 May 2024	**9800**	**1500**	**2000**	**5000**	**660**	**280**	**760**	**1800**	**2000**	**320**	**800**	**520**	20	**200**	**80**	**90**	16	20	**5400**	**1800**	**800**
02 May 2024	***12900**	***2350**	***1320**	***4300**	***530**	***220**	***8380**	***1670**	***1080**	***172**	***414**	***293**	*18	***110**	*50	*46	*9	*16	***4300**	***1550**	***700**
03 May 2024	***12900**	***2350**	***1320**	***4300**	***530**	***220**	***8380**	***1670**	***1080**	***172**	***414**	***293**	*18	***110**	*50	*46	*9	*16	***4300**	***1550**	***700**
04 May 2024	***12900**	***2350**	***1320**	***4300**	***530**	***220**	***8380**	***1670**	***1080**	***172**	***414**	***293**	*18	***110**	*50	*46	*9	*16	***4300**	***1550**	***700**
05 May 2024	***12900**	***2350**	***1320**	***4300**	***530**	***220**	***8380**	***1670**	***1080**	***172**	***414**	***293**	*18	***110**	*50	*46	*9	*16	***4300**	***1550**	***700**
06 May 2024	**9800**	**3200**	**2000**	**3600**	**400**	**160**	**760**	**140**	**160**	24	28	**200**	20	20	**80**	2	2	12	**3200**	**1300**	**600**
07 May 2024	**9800**	**3200**	**2000**	**3600**	**400**	**160**	**760**	**140**	**160**	24	28	**200**	20	20	**80**	2	2	12	**3200**	**1300**	**600**
08 May 2024	**9800**	**3200**	**2000**	**3600**	**400**	**160**	**760**	**140**	**160**	24	28	**200**	20	20	**80**	2	2	12	**3200**	**1300**	**600**
09 May 2024	***8900**	***2350**	***1320**	***1801**	***210**	***90**	***390**	***80**	***90**	***161**	***410**	***360**	*20	*20	*50	*2	*2	*7	***1760**	***1000**	***390**
10 May 2024	***8900**	***2350**	***1320**	***1801**	***210**	***90**	***390**	***80**	***90**	***161**	***410**	***360**	*20	*20	*50	*2	*2	*7	***1760**	***1000**	***390**
11 May 2024	***8900**	***2350**	***1320**	***1801**	***210**	***90**	***390**	***80**	***90**	***161**	***410**	***360**	*20	*20	*50	*2	*2	*7	***1760**	***1000**	***390**
12 May 2024	***8900**	***2350**	***1320**	***1801**	***210**	***90**	***390**	***80**	***90**	***161**	***410**	***360**	*20	*20	*50	*2	*2	*7	***1760**	***1000**	***390**
13 May 2024	**1800**	**1500**	**800**	**3600**	**180**	60	**760**	**120**	**100**	40	**120**	**320**	20	20	**80**	2	2	12	**3200**	**700**	**600**
14 May 2024	**1800**	**1500**	**800**	**3600**	**180**	60	**760**	**120**	**100**	40	**120**	**320**	20	20	**80**	2	2	12	**3200**	**700**	**600**
15 May 2024	**1800**	**1500**	**800**	**3600**	**180**	60	**760**	**120**	**100**	40	**120**	**320**	20	20	**80**	2	2	12	**3200**	**700**	**600**
16 May 2024	***1400**	***1750**	***1400**	***5100**	***290**	***110**	***880**	***130**	***130**	***180**	***460**	***420**	*20	*30	***110**	*11	*2	*7	***4800**	***950**	***600**
17 May 2024	***1400**	***1750**	***1400**	***5100**	***290**	***110**	***880**	***130**	***130**	***180**	***460**	***420**	*20	*30	***110**	*11	*2	*7	***4800**	***950**	***600**
18 May 2024	***1400**	***1750**	***1400**	***5100**	***290**	***110**	***880**	***130**	***130**	***180**	***460**	***420**	*20	*30	***110**	*11	*2	*7	***4800**	***950**	***600**
19 May 2024	***1400**	***1750**	***1400**	***5100**	***290**	***110**	***880**	***130**	***130**	***180**	***460**	***420**	*20	*30	***110**	*11	*2	*7	***4800**	***950**	***600**
20 May 2024	**1800**	**3200**	**2000**	**3600**	**400**	**160**	**760**	**140**	**160**	40	**800**	**520**	20	40	**140**	2	2	4	**3200**	**1300**	**600**
21 May 2024	**1800**	**3200**	**2000**	**3600**	**400**	**160**	**760**	**140**	**160**	40	**800**	**520**	20	40	**140**	2	2	4	**3200**	**1300**	**600**
22 May 2024	**1800**	**3200**	**2000**	**3600**	**400**	**160**	**760**	**140**	**160**	40	**800**	**520**	20	40	**140**	2	2	4	**3200**	**1300**	**600**
23 May 2024	***2700**	***5300**	***2000**	***1801**	***420**	***170**	***390**	***130**	***130**	*24	***460**	***420**	*20	*30	***170**	*2	*2	*3	***2400**	***1200**	***600**
24 May 2024	***2700**	***5300**	***2000**	***1801**	***420**	***170**	***390**	***130**	***130**	*24	***460**	***420**	*20	*30	***170**	*2	*2	*3	***2400**	***1200**	***600**
25 May 2024	***2700**	***5300**	***2000**	***1801**	***420**	***170**	***390**	***130**	***130**	*24	***460**	***420**	*20	*30	***170**	*2	*2	*3	***2400**	***1200**	***600**
26 May 2024	***2700**	***5300**	***2000**	***1801**	***420**	***170**	***390**	***130**	***130**	*24	***460**	***420**	*20	*30	***170**	*2	*2	*3	***2400**	***1200**	***600**
27 May 2024	***2700**	***5300**	***2000**	***1801**	***420**	***170**	***390**	***130**	***130**	*24	***460**	***420**	*20	*30	***170**	*2	*2	*3	***2400**	***1200**	***600**
28 May 2024	**3600**	**3200**	**2000**	2	**180**	60	20	**120**	**100**	20	**120**	**320**	20	20	**140**	2	2	2	**3200**	**600**	**600**
29 May 2024	**3600**	**3200**	**2000**	2	**180**	60	20	**120**	**100**	20	**120**	**320**	20	20	**140**	2	2	2	**3200**	**600**	**600**
30 May 2024	***2700**	***3850**	***1400**	*2	***130**	*60	*11	*70	*70	*14	*70	***260**	*20	*30	***170**	*2	*2	*3	***6800**	***600**	***470**
31 May 2024	***2700**	***3850**	***1400**	*2	***130**	*60	*11	*70	*70	*14	*70	***260**	*20	*30	***170**	*2	*2	*3	***6800**	***600**	***470**

* 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 station, 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**
May	**E**	**E**	**E**	**E**	**E**	**E**	**E**	**E**	**E**	IC	**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	06 May 2024	1107	2	1800e		280e
I19	06 May 2024	1107	6	>16000		2200e
I19	06 May 2024	1107	11	>16000		
I19	13 May 2024	1043	2	1000e	80e	
I19	13 May 2024	1043	6	300e		
I19	13 May 2024	1043	11	800e		
I19	20 May 2024	1025	2	3600e		100e
I19	20 May 2024	1025	6		2000e	360e
I19	20 May 2024	1025	11	2000e		260e
I19	28 May 2024	1141	2		3000e	
I19	28 May 2024	1141	6	280e	24e	
I19	28 May 2024	1141	11	120e	24e	160e
I24	06 May 2024	1130	2	<2	<2	<2
I24	06 May 2024	1130	6	<20	<2	<2
I24	06 May 2024	1130	11	<20	<2	<2
I24	13 May 2024	1105	2	>16000	3400e	
I24	13 May 2024	1105	6	180e	24e	36e
I24	13 May 2024	1105	11	60e	16e	24e
I24	20 May 2024	1045	2	<2	<2	2e
I24	20 May 2024	1045	6		220e	36e
I24	20 May 2024	1045	11		140e	32e
I24	28 May 2024	1207	2	<2	<2	<2
I24	28 May 2024	1207	6	80e	10e	6e
I24	28 May 2024	1207	11	60e	12e	12e
I25	06 May 2024	1139	2	<20	<2	<2
I25	06 May 2024	1139	6	<20	<2	<2
I25	06 May 2024	1139	9	<20	<2	<2
I25	13 May 2024	1117	2		300e	260e
I25	13 May 2024	1117	6	120e	26e	12e
I25	13 May 2024	1117	9	100e	18e	12e
I25	20 May 2024	1052	2	2e	2e	<2
I25	20 May 2024	1052	6	300e		20e
I25	20 May 2024	1052	9	1000e	80e	
I25	28 May 2024	1212	2	<2	<2	<2
I25	28 May 2024	1212	6	2e	2e	2e
I25	28 May 2024	1212	9	40e	10e	4e
I26	06 May 2024	1150	2	<2	<2	<2
I26	06 May 2024	1150	6	<20	<2	<2
I26	06 May 2024	1150	9	<200	2e	2e

Station	Date	Time	Depth	Total	Fecal	Entero
I26	13 May 2024	1130	2	40e	22e	10e
I26	13 May 2024	1130	6	120e	26e	14e
I26	13 May 2024	1130	9	320e	28e	22e
I26	20 May 2024	1103	2	8e	2e	2e
I26	20 May 2024	1103	6			140e
I26	20 May 2024	1103	9		180e	
I26	28 May 2024	1224	2	<20	<2	<2
I26	28 May 2024	1224	6	12e	2e	2e
I26	28 May 2024	1224	9	20e	2e	2e
I32	06 May 2024	1205	2	<20	<2	<2
I32	06 May 2024	1205	6	<20	<2	<2
I32	06 May 2024	1205	9	<200	2e	<2
I32	13 May 2024	1142	2	<20	<2	2e
I32	13 May 2024	1142	6	40e	8e	2e
I32	13 May 2024	1142	9	140e	16e	4e
I32	20 May 2024	1115	2		240e	160e
I32	20 May 2024	1115	6	>16000	3200e	1600e
I32	20 May 2024	1115	9	>16000		2000e
I32	28 May 2024	1238	2	<20	<2	<2
I32	28 May 2024	1238	6	20e	28e	8e
I32	28 May 2024	1238	9	60e	26e	10e
I39	06 May 2024	1045	2	2e	<2	<2
I39	06 May 2024	1045	12	<2	<2	<2
I39	06 May 2024	1045	18	2e	2e	<2
I39	13 May 2024	1024	2	<20	<2	<2
I39	13 May 2024	1024	12	20e	6e	4e
I39	13 May 2024	1024	18	20e	<2	2e
I39	20 May 2024	1003	2	<2	<2	<2
I39	20 May 2024	1003	12	2e	<2	<2
I39	20 May 2024	1003	18	4e	2e	<2
I39	28 May 2024	1118	2	<2	<2	<2
I39	28 May 2024	1118	12	<2	<2	<2
I39	28 May 2024	1118	18	2e	<2	2e
I40	06 May 2024	1122	2	<20	<2	<2
I40	06 May 2024	1122	6	<200	8e	<2
I40	06 May 2024	1122	9	20e	6e	6e
I40	13 May 2024	1055	2	>16000		
I40	13 May 2024	1055	6		100e	140e
I40	13 May 2024	1055	9	600e		100e
I40	20 May 2024	1036	2	1600e	240e	
I40	20 May 2024	1036	6		2400e	
I40	20 May 2024	1036	9	3000e		100e
I40	28 May 2024	1153	2		3200e	
I40	28 May 2024	1153	6		100e	120e
I40	28 May 2024	1153	9	340e		

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	06 May 2024	Arrive Time	1107
I19	06 May 2024	Depart Time	1112
I19	06 May 2024	Air Temp (C)	15.2
I19	06 May 2024	Visibility (mi)	8
I19	06 May 2024	Wind Speed (kts)	9.4
I19	06 May 2024	Wind Dir	W
I19	06 May 2024	Sea State	Light Chop
I19	06 May 2024	High Tide Time	2030
I19	06 May 2024	Low Tide Time	230
I19	06 May 2024	Comments	
I19	13 May 2024	Arrive Time	1043
I19	13 May 2024	Depart Time	1049
I19	13 May 2024	Air Temp (C)	15
I19	13 May 2024	Visibility (mi)	10
I19	13 May 2024	Wind Speed (kts)	7.2
I19	13 May 2024	Wind Dir	W
I19	13 May 2024	Sea State	Light Chop
I19	13 May 2024	High Tide Time	36
I19	13 May 2024	Low Tide Time	848
I19	13 May 2024	Comments	
I19	20 May 2024	Arrive Time	1025
I19	20 May 2024	Depart Time	1030
I19	20 May 2024	Air Temp (C)	15.3
I19	20 May 2024	Visibility (mi)	10
I19	20 May 2024	Wind Speed (kts)	7.6
I19	20 May 2024	Wind Dir	W
I19	20 May 2024	Sea State	Regular Swell
I19	20 May 2024	High Tide Time	1954
I19	20 May 2024	Low Tide Time	218
I19	20 May 2024	Comments	Possible Red Tide
I19	28 May 2024	Arrive Time	1141
I19	28 May 2024	Depart Time	1146
I19	28 May 2024	Air Temp (C)	15.6
I19	28 May 2024	Visibility (mi)	6
I19	28 May 2024	Wind Speed (kts)	4.8
I19	28 May 2024	Wind Dir	NW
I19	28 May 2024	Sea State	Calm
I19	28 May 2024	High Tide Time	6
I19	28 May 2024	Low Tide Time	800
I19	28 May 2024	Comments	Possible Red Tide
I40	06 May 2024	Arrive Time	1122
I40	06 May 2024	Depart Time	1126
I40	06 May 2024	Air Temp (C)	15.2
I40	06 May 2024	Visibility (mi)	8
I40	06 May 2024	Wind Speed (kts)	9.5
I40	06 May 2024	Wind Dir	NW
I40	06 May 2024	Sea State	Light Chop
I40	06 May 2024	High Tide Time	2030
I40	06 May 2024	Low Tide Time	230
I40	06 May 2024	Comments	
I40	13 May 2024	Arrive Time	1055

Station	Date	Parameter	Value
I40	13 May 2024	Depart Time	1102
I40	13 May 2024	Air Temp (C)	15.2
I40	13 May 2024	Visibility (mi)	10
I40	13 May 2024	Wind Speed (kts)	9
I40	13 May 2024	Wind Dir	SW
I40	13 May 2024	Sea State	Light Chop
I40	13 May 2024	High Tide Time	36
I40	13 May 2024	Low Tide Time	848
I40	13 May 2024	Comments	Foul Odor
I40	20 May 2024	Arrive Time	1036
I40	20 May 2024	Depart Time	1043
I40	20 May 2024	Air Temp (C)	15.3
I40	20 May 2024	Visibility (mi)	10
I40	20 May 2024	Wind Speed (kts)	6
I40	20 May 2024	Wind Dir	W
I40	20 May 2024	Sea State	Regular Swell
I40	20 May 2024	High Tide Time	1954
I40	20 May 2024	Low Tide Time	218
I40	20 May 2024	Comments	
I40	28 May 2024	Arrive Time	1153
I40	28 May 2024	Depart Time	1202
I40	28 May 2024	Air Temp (C)	15.6
I40	28 May 2024	Visibility (mi)	6
I40	28 May 2024	Wind Speed (kts)	8
I40	28 May 2024	Wind Dir	NW
I40	28 May 2024	Sea State	Calm
I40	28 May 2024	High Tide Time	6
I40	28 May 2024	Low Tide Time	800
I40	28 May 2024	Comments	Possible Red Tide
I24	06 May 2024	Arrive Time	1130
I24	06 May 2024	Depart Time	1136
I24	06 May 2024	Air Temp (C)	15.2
I24	06 May 2024	Visibility (mi)	8
I24	06 May 2024	Wind Speed (kts)	15.8
I24	06 May 2024	Wind Dir	W
I24	06 May 2024	Sea State	Light Chop
I24	06 May 2024	High Tide Time	2030
I24	06 May 2024	Low Tide Time	230
I24	06 May 2024	Comments	
I24	13 May 2024	Arrive Time	1105
I24	13 May 2024	Depart Time	1112
I24	13 May 2024	Air Temp (C)	15.3
I24	13 May 2024	Visibility (mi)	10
I24	13 May 2024	Wind Speed (kts)	8.4
I24	13 May 2024	Wind Dir	W
I24	13 May 2024	Sea State	Regular Swell
I24	13 May 2024	High Tide Time	36
I24	13 May 2024	Low Tide Time	848
I24	13 May 2024	Comments	
I24	20 May 2024	Arrive Time	1045
I24	20 May 2024	Depart Time	1051
I24	20 May 2024	Air Temp (C)	15.3
I24	20 May 2024	Visibility (mi)	10
I24	20 May 2024	Wind Speed (kts)	4.7
I24	20 May 2024	Wind Dir	W
I24	20 May 2024	Sea State	Regular Swell

Station	Date	Parameter	Value
I24	20 May 2024	High Tide Time	1954
I24	20 May 2024	Low Tide Time	218
I24	20 May 2024	Comments	
I24	28 May 2024	Arrive Time	1207
I24	28 May 2024	Depart Time	1208
I24	28 May 2024	Air Temp (C)	15.6
I24	28 May 2024	Visibility (mi)	6
I24	28 May 2024	Wind Speed (kts)	11
I24	28 May 2024	Wind Dir	NW
I24	28 May 2024	Sea State	Calm
I24	28 May 2024	High Tide Time	6
I24	28 May 2024	Low Tide Time	800
I24	28 May 2024	Comments	Forgot to arrive, nom lat-lon used; Possible Red Tide
I25	06 May 2024	Arrive Time	1139
I25	06 May 2024	Depart Time	1144
I25	06 May 2024	Air Temp (C)	15.2
I25	06 May 2024	Visibility (mi)	8
I25	06 May 2024	Wind Speed (kts)	9.5
I25	06 May 2024	Wind Dir	W
I25	06 May 2024	Sea State	Light Chop
I25	06 May 2024	High Tide Time	2030
I25	06 May 2024	Low Tide Time	230
I25	06 May 2024	Comments	
I25	13 May 2024	Arrive Time	1117
I25	13 May 2024	Depart Time	1122
I25	13 May 2024	Air Temp (C)	15.5
I25	13 May 2024	Visibility (mi)	10
I25	13 May 2024	Wind Speed (kts)	2.8
I25	13 May 2024	Wind Dir	S
I25	13 May 2024	Sea State	Regular Swell
I25	13 May 2024	High Tide Time	36
I25	13 May 2024	Low Tide Time	848
I25	13 May 2024	Comments	
I25	20 May 2024	Arrive Time	1052
I25	20 May 2024	Depart Time	1057
I25	20 May 2024	Air Temp (C)	15.4
I25	20 May 2024	Visibility (mi)	10
I25	20 May 2024	Wind Speed (kts)	5.7
I25	20 May 2024	Wind Dir	W
I25	20 May 2024	Sea State	Regular Swell
I25	20 May 2024	High Tide Time	1954
I25	20 May 2024	Low Tide Time	218
I25	20 May 2024	Comments	
I25	28 May 2024	Arrive Time	1212
I25	28 May 2024	Depart Time	1216
I25	28 May 2024	Air Temp (C)	15.6
I25	28 May 2024	Visibility (mi)	6
I25	28 May 2024	Wind Speed (kts)	6.3
I25	28 May 2024	Wind Dir	NW
I25	28 May 2024	Sea State	Calm
I25	28 May 2024	High Tide Time	6
I25	28 May 2024	Low Tide Time	800
I25	28 May 2024	Comments	Possible Red Tide
I39	06 May 2024	Arrive Time	1045
I39	06 May 2024	Depart Time	1050

Station	Date	Parameter	Value
I39	06 May 2024	Air Temp (C)	14.9
I39	06 May 2024	Visibility (mi)	8
I39	06 May 2024	Wind Speed (kts)	9
I39	06 May 2024	Wind Dir	W
I39	06 May 2024	Sea State	Light Chop
I39	06 May 2024	High Tide Time	2030
I39	06 May 2024	Low Tide Time	230
I39	06 May 2024	Comments	
I39	13 May 2024	Arrive Time	1024
I39	13 May 2024	Depart Time	1030
I39	13 May 2024	Air Temp (C)	15
I39	13 May 2024	Visibility (mi)	10
I39	13 May 2024	Wind Speed (kts)	5.6
I39	13 May 2024	Wind Dir	SW
I39	13 May 2024	Sea State	Light Chop
I39	13 May 2024	High Tide Time	36
I39	13 May 2024	Low Tide Time	848
I39	13 May 2024	Comments	Low Tide; Unable to Obtain Depth
I39	20 May 2024	Arrive Time	1003
I39	20 May 2024	Depart Time	1009
I39	20 May 2024	Air Temp (C)	15.2
I39	20 May 2024	Visibility (mi)	10
I39	20 May 2024	Wind Speed (kts)	6.1
I39	20 May 2024	Wind Dir	W
I39	20 May 2024	Sea State	Regular Swell
I39	20 May 2024	High Tide Time	1954
I39	20 May 2024	Low Tide Time	218
I39	20 May 2024	Comments	
I39	28 May 2024	Arrive Time	1118
I39	28 May 2024	Depart Time	1127
I39	28 May 2024	Air Temp (C)	15.4
I39	28 May 2024	Visibility (mi)	6
I39	28 May 2024	Wind Speed (kts)	6.4
I39	28 May 2024	Wind Dir	NW
I39	28 May 2024	Sea State	Calm
I39	28 May 2024	High Tide Time	6
I39	28 May 2024	Low Tide Time	800
I39	28 May 2024	Comments	
I26	06 May 2024	Arrive Time	1150
I26	06 May 2024	Depart Time	1154
I26	06 May 2024	Air Temp (C)	15.4
I26	06 May 2024	Visibility (mi)	8
I26	06 May 2024	Wind Speed (kts)	10.3
I26	06 May 2024	Wind Dir	W
I26	06 May 2024	Sea State	Light Chop
I26	06 May 2024	High Tide Time	2030
I26	06 May 2024	Low Tide Time	230
I26	06 May 2024	Comments	
I26	13 May 2024	Arrive Time	1130
I26	13 May 2024	Depart Time	1136
I26	13 May 2024	Air Temp (C)	15.4
I26	13 May 2024	Visibility (mi)	10
I26	13 May 2024	Wind Speed (kts)	8.1
I26	13 May 2024	Wind Dir	SW
I26	13 May 2024	Sea State	Regular Swell
I26	13 May 2024	High Tide Time	36

Station	Date	Parameter	Value
I26	13 May 2024	Low Tide Time	848
I26	13 May 2024	Comments	
I26	20 May 2024	Arrive Time	1103
I26	20 May 2024	Depart Time	1109
I26	20 May 2024	Air Temp (C)	15.3
I26	20 May 2024	Visibility (mi)	10
I26	20 May 2024	Wind Speed (kts)	7.1
I26	20 May 2024	Wind Dir	W
I26	20 May 2024	Sea State	Regular Swell
I26	20 May 2024	High Tide Time	1954
I26	20 May 2024	Low Tide Time	218
I26	20 May 2024	Comments	
I26	28 May 2024	Arrive Time	1224
I26	28 May 2024	Depart Time	1227
I26	28 May 2024	Air Temp (C)	15.8
I26	28 May 2024	Visibility (mi)	6
I26	28 May 2024	Wind Speed (kts)	5.7
I26	28 May 2024	Wind Dir	NW
I26	28 May 2024	Sea State	Calm
I26	28 May 2024	High Tide Time	6
I26	28 May 2024	Low Tide Time	800
I26	28 May 2024	Comments	
I32	06 May 2024	Arrive Time	1205
I32	06 May 2024	Depart Time	1209
I32	06 May 2024	Air Temp (C)	15.5
I32	06 May 2024	Visibility (mi)	8
I32	06 May 2024	Wind Speed (kts)	8.5
I32	06 May 2024	Wind Dir	W
I32	06 May 2024	Sea State	Light Chop
I32	06 May 2024	High Tide Time	2030
I32	06 May 2024	Low Tide Time	230
I32	06 May 2024	Comments	
I32	13 May 2024	Arrive Time	1142
I32	13 May 2024	Depart Time	1148
I32	13 May 2024	Air Temp (C)	15.6
I32	13 May 2024	Visibility (mi)	10
I32	13 May 2024	Wind Speed (kts)	9.2
I32	13 May 2024	Wind Dir	NW
I32	13 May 2024	Sea State	Regular Swell
I32	13 May 2024	High Tide Time	36
I32	13 May 2024	Low Tide Time	848
I32	13 May 2024	Comments	
I32	20 May 2024	Arrive Time	1115
I32	20 May 2024	Depart Time	1124
I32	20 May 2024	Air Temp (C)	15.3
I32	20 May 2024	Visibility (mi)	10
I32	20 May 2024	Wind Speed (kts)	6.1
I32	20 May 2024	Wind Dir	NW
I32	20 May 2024	Sea State	Regular Swell
I32	20 May 2024	High Tide Time	1954
I32	20 May 2024	Low Tide Time	218
I32	20 May 2024	Comments	
I32	28 May 2024	Arrive Time	1238
I32	28 May 2024	Depart Time	1242
I32	28 May 2024	Air Temp (C)	15.6

Station	Date	Parameter	Value
I32	28 May 2024	Visibility (mi)	6
I32	28 May 2024	Wind Speed (kts)	4.5
I32	28 May 2024	Wind Dir	W
I32	28 May 2024	Sea State	Calm
I32	28 May 2024	High Tide Time	6
I32	28 May 2024	Low Tide Time	800
I32	28 May 2024	Comments	

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	06 May 2024	1	18.18	50.21	9.7	33.28	8.4	23.9	7.48
I19	06 May 2024	2	18.05	49.46	9.8	33.33	8.4	24.0	11.60
I19	06 May 2024	3	17.67	48.21	9.5	33.35	8.4	24.1	14.79
I19	06 May 2024	4	17.30	49.82	9.0	33.28	8.3	24.1	16.43
I19	06 May 2024	5	16.83	45.69	8.4	33.27	8.3	24.2	12.51
I19	06 May 2024	6	16.01	43.87	8.1	33.34	8.2	24.5	9.59
I19	06 May 2024	7	15.27	52.83	8.1	33.42	8.2	24.7	7.57
I19	06 May 2024	8	15.29	62.75	7.9	33.40	8.2	24.7	6.70
I19	06 May 2024	9	14.01	59.16	7.6	33.42	8.1	25.0	7.13
I19	06 May 2024	10	13.75	37.48	7.1	33.44	8.0	25.0	7.89
I19	13 May 2024	1	14.70	57.56	7.0	33.47	8.0	24.9	7.37
I19	13 May 2024	2	14.08	56.41	6.5	33.55	8.0	25.0	7.71
I19	13 May 2024	3	12.87	56.29	5.6	33.61	7.9	25.3	5.94
I19	13 May 2024	4	12.13	66.32	4.8	33.59	7.9	25.5	4.85
I19	13 May 2024	5	11.79	72.64	4.4	33.58	7.8	25.5	4.06
I19	13 May 2024	6	11.70	63.96	4.2	33.57	7.8	25.5	3.14
I19	13 May 2024	7	11.67	60.80	4.2	33.57	7.8	25.5	2.62
I19	13 May 2024	8	11.62	64.41	4.2	33.58	7.8	25.6	2.49
I19	13 May 2024	9	11.58	64.51	4.2	33.58	7.8	25.6	2.35
I19	13 May 2024	10	11.58	52.44	4.1	33.58	7.8	25.6	2.36
I19	20 May 2024	1	16.24	34.13	10.5	33.55	8.4	24.6	51.53
I19	20 May 2024	2	16.06	34.48	10.1	33.55	8.4	24.6	53.89
I19	20 May 2024	3	15.97	33.48	9.8	33.55	8.4	24.6	55.82
I19	20 May 2024	4	15.87	32.65	9.6	33.55	8.3	24.7	53.92
I19	20 May 2024	5	15.60	32.79	9.3	33.54	8.3	24.7	47.89
I19	20 May 2024	6	15.39	36.27	9.2	33.53	8.3	24.8	41.89
I19	20 May 2024	7	15.34	40.37	9.1	33.52	8.3	24.8	38.05
I19	20 May 2024	8	15.14	41.43	8.8	33.51	8.3	24.8	35.10
I19	20 May 2024	9	14.42	43.16	7.8	33.56	8.3	25.0	26.02
I19	20 May 2024	10	12.48	50.21	6.0	33.66	8.1	25.5	12.88
I19	28 May 2024	1	15.14	27.50	8.2	33.57	8.2	24.8	57.59
I19	28 May 2024	2	14.18	29.11	6.9	33.64	8.2	25.1	44.22
I19	28 May 2024	3	12.48	54.51	4.7	33.63	7.9	25.4	18.23
I19	28 May 2024	4	12.03	82.34	3.7	33.61	7.7	25.5	7.74
I19	28 May 2024	5	12.01	86.82	3.2	33.61	7.7	25.5	4.02
I19	28 May 2024	6	11.96	86.13	3.0	33.61	7.7	25.5	2.49
I19	28 May 2024	7	11.68	83.87	3.0	33.64	7.7	25.6	1.90
I19	28 May 2024	8	11.57	80.72	3.2	33.64	7.7	25.6	1.44
I19	28 May 2024	9	11.50	76.15	3.2	33.65	7.7	25.6	1.33
I19	28 May 2024	10	11.47	60.77	3.2	33.65	7.7	25.6	1.39
I40	06 May 2024	1	17.70	66.18	9.3	33.44	8.3	24.2	2.94
I40	06 May 2024	2	17.48	65.71	9.3	33.45	8.3	24.2	3.29
I40	06 May 2024	3	16.95	61.74	9.5	33.46	8.3	24.3	6.13
I40	06 May 2024	4	16.62	55.75	9.7	33.46	8.3	24.4	16.16
I40	06 May 2024	5	16.42	43.34	9.5	33.46	8.3	24.5	26.62
I40	06 May 2024	6	16.23	38.10	9.1	33.46	8.3	24.5	25.42
I40	06 May 2024	7	15.94	43.27	8.3	33.46	8.3	24.6	21.07
I40	06 May 2024	8	14.92	44.99	7.6	33.50	8.2	24.8	16.37
I40	06 May 2024	9	14.25	46.25	7.0	33.53	8.1	25.0	10.47
I40	06 May 2024	10	14.19	45.41	6.7	33.52	8.0	25.0	8.12

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I40	13 May 2024	1	16.83	43.18	8.1	33.00	8.2	24.0	19.83
I40	13 May 2024	2	16.36	41.46	7.6	33.35	8.2	24.4	14.32
I40	13 May 2024	3	15.37	51.42	6.5	33.52	8.1	24.7	6.81
I40	13 May 2024	4	12.84	70.96	5.5	33.68	8.0	25.4	3.98
I40	13 May 2024	5	11.73	82.60	4.8	33.62	7.8	25.6	2.57
I40	13 May 2024	6	11.56	86.55	4.6	33.59	7.8	25.6	1.98
I40	13 May 2024	7	11.42	86.73	4.4	33.58	7.8	25.6	1.65
I40	13 May 2024	8	11.39	86.71	4.3	33.57	7.8	25.6	1.51
I40	13 May 2024	9	11.38	85.58	4.3	33.58	7.8	25.6	1.51
I40	13 May 2024	10	11.39	79.67	4.2	33.58	7.8	25.6	1.56
I40	20 May 2024	1	16.40	66.29	10.1	33.56	8.4	24.6	10.44
I40	20 May 2024	2	16.37	64.19	9.9	33.57	8.4	24.6	11.40
I40	20 May 2024	3	15.75	61.93	9.4	33.55	8.4	24.7	17.35
I40	20 May 2024	4	15.13	56.48	8.3	33.51	8.3	24.8	16.79
I40	20 May 2024	5	14.19	58.88	7.1	33.57	8.2	25.0	12.34
I40	20 May 2024	6	13.29	63.81	6.1	33.58	8.1	25.2	8.35
I40	20 May 2024	7	13.13	65.53	5.6	33.56	8.0	25.3	6.69
I40	20 May 2024	8	13.02	65.48	5.2	33.56	8.0	25.3	6.16
I40	20 May 2024	9	12.45	61.33	4.5	33.59	7.9	25.4	5.84
I40	20 May 2024	10	11.88	42.30	3.7	33.59	7.8	25.5	5.47
I40	28 May 2024	1	16.86	41.06	11.1	33.42	8.5	24.3	54.25
I40	28 May 2024	2	16.05	59.00	8.8	33.63	8.4	24.7	27.88
I40	28 May 2024	3	13.94	72.15	5.8	33.67	8.1	25.2	9.61
I40	28 May 2024	4	12.90	76.64	4.9	33.63	7.9	25.4	4.21
I40	28 May 2024	5	12.51	84.89	4.8	33.61	7.9	25.4	2.35
I40	28 May 2024	6	12.38	89.72	4.7	33.60	7.9	25.4	1.53
I40	28 May 2024	7	11.87	91.34	4.6	33.62	7.8	25.5	1.35
I40	28 May 2024	8	11.67	90.30	4.2	33.64	7.8	25.6	1.19
I40	28 May 2024	9	11.52	81.06	3.8	33.63	7.8	25.6	1.07
I40	28 May 2024	10	11.53	77.39	3.7	33.63	7.8	25.6	1.03
I24	06 May 2024	1	18.07	76.45	9.2	33.41	8.3	24.0	1.51
I24	06 May 2024	2	18.02	76.32	9.2	33.41	8.3	24.1	1.54
I24	06 May 2024	3	17.64	76.21	9.2	33.41	8.3	24.1	1.84
I24	06 May 2024	4	17.39	76.02	9.3	33.41	8.3	24.2	3.06
I24	06 May 2024	5	17.31	73.58	9.4	33.41	8.3	24.2	6.44
I24	06 May 2024	6	17.10	65.45	9.1	33.43	8.3	24.3	10.24
I24	06 May 2024	7	16.07	61.13	8.7	33.47	8.3	24.6	11.96
I24	06 May 2024	8	15.39	61.43	8.0	33.47	8.2	24.7	10.98
I24	06 May 2024	9	14.36	65.54	7.5	33.49	8.1	24.9	9.08
I24	06 May 2024	10	14.27	68.82	7.1	33.47	8.1	24.9	6.26
I24	06 May 2024	11	14.53	67.67	7.1	33.48	8.1	24.9	5.21
I24	13 May 2024	1	16.38	64.25	8.1	33.27	8.2	24.3	6.48
I24	13 May 2024	2	15.72	64.94	7.4	33.45	8.2	24.6	5.53
I24	13 May 2024	3	13.84	73.43	6.3	33.61	8.1	25.1	4.11
I24	13 May 2024	4	12.56	80.80	5.4	33.59	7.9	25.4	2.96
I24	13 May 2024	5	12.39	86.24	5.0	33.56	7.9	25.4	2.21
I24	13 May 2024	6	11.85	89.18	4.7	33.59	7.8	25.5	1.88
I24	13 May 2024	7	11.61	89.10	4.5	33.59	7.8	25.6	1.53
I24	13 May 2024	8	11.47	87.36	4.4	33.59	7.8	25.6	1.37
I24	13 May 2024	9	11.43	81.41	4.2	33.58	7.8	25.6	1.38
I24	20 May 2024	1	16.22	78.10	9.1	33.59	8.3	24.6	2.56
I24	20 May 2024	2	16.14	78.54	9.1	33.59	8.3	24.6	2.73
I24	20 May 2024	3	15.98	78.24	9.1	33.59	8.3	24.7	3.33
I24	20 May 2024	4	15.55	76.98	9.0	33.59	8.3	24.8	5.24
I24	20 May 2024	5	15.07	71.51	8.5	33.58	8.3	24.9	8.01
I24	20 May 2024	6	14.59	70.22	7.5	33.59	8.2	25.0	8.10

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I24	20 May 2024	7	13.59	73.39	5.9	33.61	8.1	25.2	6.56
I24	20 May 2024	8	12.53	71.77	4.6	33.64	7.9	25.4	4.91
I24	20 May 2024	9	11.77	67.28	3.9	33.62	7.8	25.6	3.65
I24	20 May 2024	10	11.70	57.19	3.7	33.60	7.8	25.6	2.94
I24	28 May 2024	1	17.15	51.80	13.0	33.60	8.6	24.4	18.00
I24	28 May 2024	2	16.96	55.20	12.1	33.60	8.5	24.4	13.64
I24	28 May 2024	3	15.90	64.74	10.0	33.64	8.4	24.7	9.45
I24	28 May 2024	4	14.73	75.48	8.0	33.64	8.3	25.0	5.42
I24	28 May 2024	5	12.93	84.97	6.3	33.66	8.1	25.4	2.85
I24	28 May 2024	6	12.04	91.72	5.3	33.62	7.9	25.5	1.50
I24	28 May 2024	7	11.63	92.03	4.8	33.63	7.9	25.6	1.06
I24	28 May 2024	8	11.37	90.07	4.6	33.62	7.8	25.6	0.94
I24	28 May 2024	9	11.36	88.55	4.4	33.62	7.8	25.6	0.86
I24	28 May 2024	10	11.37	88.87	4.4	33.63	7.8	25.6	0.85
I25	06 May 2024	1	18.02	71.94	9.2	33.42	8.3	24.1	1.29
I25	06 May 2024	2	17.93	73.58	9.2	33.42	8.3	24.1	1.30
I25	06 May 2024	3	17.38	74.82	9.2	33.43	8.3	24.2	1.58
I25	06 May 2024	4	17.16	76.97	9.3	33.42	8.3	24.3	2.88
I25	06 May 2024	5	17.07	73.07	9.2	33.42	8.3	24.3	5.53
I25	06 May 2024	6	16.78	67.75	8.7	33.42	8.3	24.4	8.31
I25	06 May 2024	7	15.33	64.45	8.2	33.47	8.3	24.7	9.55
I25	06 May 2024	8	14.82	64.97	7.8	33.45	8.2	24.8	8.49
I25	06 May 2024	9	15.17	72.59	7.8	33.43	8.1	24.7	6.30
I25	13 May 2024	1	16.37	60.49	8.2	33.42	8.2	24.4	10.32
I25	13 May 2024	2	15.39	60.56	7.6	33.55	8.2	24.8	10.12
I25	13 May 2024	3	13.71	68.82	6.5	33.63	8.1	25.2	7.38
I25	13 May 2024	4	12.75	80.49	5.7	33.59	7.9	25.3	4.51
I25	13 May 2024	5	12.42	86.98	5.2	33.58	7.9	25.4	3.05
I25	13 May 2024	6	11.91	89.80	5.0	33.59	7.8	25.5	2.57
I25	13 May 2024	7	11.81	90.53	4.8	33.58	7.8	25.5	2.04
I25	13 May 2024	8	11.81	90.37	4.7	33.58	7.8	25.5	1.73
I25	13 May 2024	9	12.01	89.47	4.7	33.54	7.8	25.5	1.55
I25	20 May 2024	1	16.28	77.94	9.1	33.59	8.3	24.6	2.40
I25	20 May 2024	2	16.21	77.34	9.1	33.59	8.3	24.6	2.59
I25	20 May 2024	3	15.99	76.87	9.1	33.59	8.3	24.7	3.31
I25	20 May 2024	4	15.55	75.88	8.9	33.60	8.3	24.8	4.75
I25	20 May 2024	5	14.76	71.31	8.8	33.58	8.3	24.9	7.90
I25	20 May 2024	6	14.54	68.59	8.2	33.56	8.2	25.0	9.24
I25	20 May 2024	7	14.09	71.18	6.8	33.58	8.2	25.1	8.36
I25	20 May 2024	8	12.29	71.60	4.8	33.64	7.9	25.5	5.30
I25	28 May 2024	1	17.11	60.00	13.1	33.59	8.6	24.4	15.81
I25	28 May 2024	2	17.14	60.49	13.0	33.59	8.6	24.4	16.60
I25	28 May 2024	3	16.99	60.61	11.8	33.60	8.6	24.4	17.42
I25	28 May 2024	4	15.10	62.85	9.2	33.68	8.4	24.9	11.92
I25	28 May 2024	5	13.17	73.60	6.9	33.66	8.1	25.3	5.46
I25	28 May 2024	6	12.10	86.51	5.8	33.65	8.0	25.5	3.26
I25	28 May 2024	7	11.43	92.03	5.2	33.64	7.9	25.6	2.03
I25	28 May 2024	8	11.31	93.84	4.7	33.63	7.8	25.6	1.40
I25	28 May 2024	9	11.31	94.32	4.6	33.63	7.8	25.7	1.03
I39	06 May 2024	1	18.11	78.87	9.1	33.41	8.3	24.0	0.94
I39	06 May 2024	2	18.01	78.40	9.0	33.41	8.3	24.0	0.95
I39	06 May 2024	3	17.72	79.12	9.0	33.41	8.3	24.1	1.03
I39	06 May 2024	4	17.62	79.64	8.9	33.40	8.3	24.1	1.21
I39	06 May 2024	5	17.47	81.12	8.8	33.40	8.3	24.2	1.29
I39	06 May 2024	6	17.27	82.80	8.7	33.40	8.3	24.2	1.39

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I39	06 May 2024	7	17.10	84.47	8.6	33.40	8.2	24.3	1.55
I39	06 May 2024	8	16.67	85.33	8.6	33.41	8.2	24.4	1.99
I39	06 May 2024	9	16.22	84.67	8.5	33.43	8.2	24.5	2.77
I39	06 May 2024	10	15.78	82.53	8.5	33.42	8.2	24.6	3.64
I39	06 May 2024	11	15.52	81.41	8.3	33.42	8.2	24.6	4.44
I39	06 May 2024	12	14.67	80.23	8.2	33.42	8.2	24.8	4.89
I39	06 May 2024	13	14.50	81.32	7.5	33.42	8.1	24.9	4.90
I39	06 May 2024	14	12.43	82.41	6.5	33.49	8.1	25.3	4.11
I39	06 May 2024	15	11.71	84.46	5.7	33.56	8.0	25.5	3.21
I39	06 May 2024	16	11.67	85.62	5.1	33.56	7.9	25.5	2.68
I39	06 May 2024	17	11.29	85.05	4.7	33.60	7.9	25.6	2.61
I39	06 May 2024	18	11.23	83.57	4.5	33.61	7.8	25.7	2.56
I39	13 May 2024	1	17.51	77.91	9.7	33.49	8.3	24.2	3.78
I39	13 May 2024	2	17.54	77.98	9.7	33.49	8.3	24.2	3.91
I39	13 May 2024	3	17.42	77.85	9.4	33.50	8.3	24.3	4.07
I39	13 May 2024	4	16.81	78.43	8.8	33.54	8.3	24.4	4.18
I39	13 May 2024	5	15.32	80.78	7.9	33.60	8.2	24.8	4.49
I39	13 May 2024	6	13.65	83.04	7.0	33.62	8.1	25.2	4.80
I39	13 May 2024	7	12.67	84.71	6.3	33.63	8.0	25.4	4.54
I39	13 May 2024	8	11.96	87.39	5.6	33.63	7.9	25.5	3.57
I39	13 May 2024	9	11.39	91.05	5.1	33.63	7.9	25.6	2.77
I39	13 May 2024	10	11.11	93.13	4.8	33.64	7.8	25.7	2.54
I39	13 May 2024	11	10.94	94.49	4.5	33.65	7.8	25.7	2.08
I39	13 May 2024	12	10.89	94.87	4.3	33.65	7.8	25.7	2.18
I39	13 May 2024	13	10.88	94.99	4.2	33.65	7.8	25.7	1.70
I39	13 May 2024	14	10.87	94.56	4.1	33.66	7.8	25.8	1.62
I39	13 May 2024	15	10.86	94.38	4.0	33.66	7.8	25.8	1.48
I39	13 May 2024	16	10.86	93.74	3.9	33.67	7.8	25.8	1.28
I39	13 May 2024	17	10.86	93.46	3.9	33.67	7.8	25.8	1.21
I39	20 May 2024	1	15.90	78.97	9.0	33.59	8.3	24.7	2.15
I39	20 May 2024	2	15.83	76.88	8.9	33.59	8.3	24.7	2.42
I39	20 May 2024	3	15.61	77.26	8.7	33.60	8.3	24.8	3.45
I39	20 May 2024	4	15.11	77.61	8.1	33.62	8.2	24.9	4.60
I39	20 May 2024	5	13.62	77.59	7.4	33.65	8.2	25.2	5.25
I39	20 May 2024	6	12.88	80.64	6.8	33.60	8.1	25.3	4.97
I39	20 May 2024	7	12.73	84.48	6.4	33.57	8.0	25.3	4.48
I39	20 May 2024	8	12.56	85.85	6.2	33.56	8.0	25.4	4.38
I39	20 May 2024	9	12.47	86.23	6.0	33.57	8.0	25.4	4.16
I39	20 May 2024	10	12.25	86.41	5.6	33.59	8.0	25.4	4.23
I39	20 May 2024	11	11.37	87.32	4.9	33.66	7.9	25.7	3.55
I39	20 May 2024	12	11.13	88.47	4.3	33.65	7.8	25.7	2.49
I39	20 May 2024	13	11.05	87.99	3.9	33.65	7.8	25.7	1.58
I39	20 May 2024	14	10.99	87.74	3.8	33.66	7.8	25.7	1.39
I39	20 May 2024	15	10.96	87.50	3.8	33.66	7.8	25.7	1.22
I39	20 May 2024	16	10.92	87.21	3.7	33.67	7.8	25.8	1.19
I39	20 May 2024	17	10.92	86.42	3.7	33.67	7.8	25.8	1.16
I39	20 May 2024	18	10.92	85.00	3.6	33.67	7.8	25.8	1.21
I39	28 May 2024	1	16.38	87.14	8.2	33.58	8.3	24.6	1.83
I39	28 May 2024	2	16.38	87.15	9.1	33.59	8.3	24.6	1.81
I39	28 May 2024	3	16.36	87.20	9.4	33.60	8.3	24.6	1.97
I39	28 May 2024	4	16.32	87.00	9.4	33.60	8.3	24.6	2.48
I39	28 May 2024	5	16.31	86.59	9.4	33.60	8.3	24.6	2.74
I39	28 May 2024	6	16.30	86.81	9.5	33.60	8.3	24.6	3.02
I39	28 May 2024	7	16.30	86.57	9.6	33.60	8.3	24.6	4.31
I39	28 May 2024	8	16.29	85.29	9.8	33.60	8.3	24.6	6.38
I39	28 May 2024	9	16.26	82.37	9.9	33.60	8.3	24.6	8.05
I39	28 May 2024	10	16.16	78.80	9.8	33.60	8.3	24.6	9.08
I39	28 May 2024	11	15.80	78.34	9.1	33.61	8.3	24.7	9.17

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I39	28 May 2024	12	14.36	78.72	7.5	33.69	8.2	25.1	7.95
I39	28 May 2024	13	12.58	83.82	6.0	33.69	8.0	25.5	6.11
I39	28 May 2024	14	11.24	88.14	5.2	33.69	7.9	25.7	3.97
I39	28 May 2024	15	10.62	94.49	4.8	33.69	7.8	25.8	2.09
I39	28 May 2024	16	10.56	97.15	4.5	33.69	7.8	25.8	1.25
I39	28 May 2024	17	10.56	97.22	4.4	33.68	7.8	25.8	1.10
I39	28 May 2024	18	10.55	97.26	4.3	33.68	7.8	25.8	1.03
I26	06 May 2024	1	17.91	78.37	9.2	33.42	8.3	24.1	1.22
I26	06 May 2024	2	17.89	74.78	9.2	33.42	8.3	24.1	1.28
I26	06 May 2024	3	17.61	76.95	9.2	33.41	8.3	24.2	1.45
I26	06 May 2024	4	17.40	78.37	9.2	33.41	8.3	24.2	1.90
I26	06 May 2024	5	17.22	78.51	9.1	33.42	8.3	24.2	2.90
I26	06 May 2024	6	16.87	76.85	9.0	33.43	8.3	24.3	6.00
I26	06 May 2024	7	16.63	69.65	8.8	33.43	8.3	24.4	9.24
I26	06 May 2024	8	16.01	62.76	8.4	33.43	8.2	24.5	9.74
I26	06 May 2024	9	15.41	58.69	8.5	33.44	8.2	24.7	9.60
I26	13 May 2024	1	16.95	59.14	9.6	33.47	8.3	24.3	9.40
I26	13 May 2024	2	16.80	58.80	9.4	33.47	8.3	24.4	11.16
I26	13 May 2024	3	16.29	56.89	8.6	33.49	8.3	24.5	13.78
I26	13 May 2024	4	14.50	57.97	7.4	33.63	8.2	25.0	11.78
I26	13 May 2024	5	12.66	70.16	6.3	33.63	8.0	25.4	7.60
I26	13 May 2024	6	11.85	83.69	5.5	33.60	7.9	25.5	5.33
I26	13 May 2024	7	11.48	88.62	5.0	33.59	7.8	25.6	4.13
I26	13 May 2024	8	11.43	90.52	4.7	33.57	7.8	25.6	3.09
I26	13 May 2024	9	11.43	90.95	4.6	33.58	7.8	25.6	2.70
I26	20 May 2024	1	16.42	75.62	9.8	33.59	8.3	24.6	2.67
I26	20 May 2024	2	16.19	74.14	9.7	33.59	8.3	24.6	3.91
I26	20 May 2024	3	15.65	73.11	9.6	33.56	8.3	24.7	7.97
I26	20 May 2024	4	15.57	62.72	9.3	33.54	8.3	24.7	10.39
I26	20 May 2024	5	15.47	63.41	8.7	33.53	8.3	24.7	11.02
I26	20 May 2024	6	14.54	69.63	7.1	33.55	8.2	25.0	9.04
I26	20 May 2024	7	12.70	69.68	5.7	33.63	8.0	25.4	6.20
I26	20 May 2024	8	11.82	78.19	4.8	33.60	7.9	25.5	4.26
I26	20 May 2024	9	11.78	82.18	4.3	33.59	7.8	25.5	3.18
I26	28 May 2024	1	17.25	59.37	13.2	33.59	8.6	24.4	16.34
I26	28 May 2024	2	16.87	55.03	11.7	33.62	8.6	24.5	14.49
I26	28 May 2024	3	15.33	62.37	9.1	33.67	8.4	24.9	7.86
I26	28 May 2024	4	13.70	80.59	7.0	33.68	8.2	25.2	3.84
I26	28 May 2024	5	12.15	88.98	5.7	33.70	8.0	25.5	2.66
I26	28 May 2024	6	11.14	91.59	5.1	33.66	7.9	25.7	1.97
I26	28 May 2024	7	11.13	93.55	4.8	33.64	7.8	25.7	1.71
I26	28 May 2024	8	11.12	94.74	4.6	33.64	7.8	25.7	1.17
I26	28 May 2024	9	11.12	95.34	4.4	33.64	7.8	25.7	1.30
I32	06 May 2024	1	18.05	75.11	9.3	33.44	8.3	24.1	1.40
I32	06 May 2024	2	18.01	75.04	9.3	33.44	8.3	24.1	1.53
I32	06 May 2024	3	17.93	74.96	9.3	33.43	8.3	24.1	1.90
I32	06 May 2024	4	17.75	74.79	9.4	33.43	8.3	24.1	2.71
I32	06 May 2024	5	17.57	74.32	9.4	33.43	8.3	24.2	4.02
I32	06 May 2024	6	17.48	71.89	9.3	33.44	8.3	24.2	5.98
I32	06 May 2024	7	17.34	68.47	9.1	33.44	8.3	24.2	7.10
I32	06 May 2024	8	17.27	66.32	8.9	33.44	8.3	24.3	7.40
I32	06 May 2024	9	17.21	61.11	8.7	33.45	8.3	24.3	7.26
I32	06 May 2024	10	17.17	43.89	8.7	33.45	8.3	24.3	7.18
I32	13 May 2024	1	16.78	59.44	8.8	33.49	8.3	24.4	11.81
I32	13 May 2024	2	16.33	59.45	8.1	33.52	8.2	24.5	12.63

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I32	13 May 2024	3	13.95	59.61	6.9	33.64	8.1	25.1	11.86
I32	13 May 2024	4	12.78	66.84	5.9	33.58	8.0	25.3	7.99
I32	13 May 2024	5	12.18	78.66	5.3	33.57	7.9	25.4	5.41
I32	13 May 2024	6	11.85	86.27	5.0	33.57	7.8	25.5	3.60
I32	13 May 2024	7	11.76	87.83	4.8	33.56	7.8	25.5	3.33
I32	13 May 2024	8	11.74	84.83	4.7	33.56	7.8	25.5	3.05
I32	13 May 2024	9	11.73	80.88	4.7	33.57	7.8	25.5	2.93
I32	13 May 2024	10	11.74	78.34	4.7	33.57	7.8	25.5	2.95
I32	20 May 2024	1	16.62	64.61	10.3	33.56	8.4	24.5	5.07
I32	20 May 2024	2	16.52	63.35	10.2	33.55	8.4	24.5	6.47
I32	20 May 2024	3	16.31	61.15	9.9	33.53	8.4	24.5	10.93
I32	20 May 2024	4	16.16	57.06	9.7	33.50	8.4	24.6	15.41
I32	20 May 2024	5	16.13	57.64	9.6	33.49	8.3	24.6	16.23
I32	20 May 2024	6	16.10	58.92	9.6	33.49	8.3	24.6	16.67
I32	20 May 2024	7	16.07	58.50	9.5	33.48	8.3	24.6	16.90
I32	20 May 2024	8	16.07	57.79	9.5	33.48	8.3	24.6	16.75
I32	20 May 2024	9	15.91	54.65	9.4	33.44	8.3	24.6	16.20
I32	20 May 2024	10	15.75	52.76	9.3	33.41	8.3	24.6	17.35
I32	28 May 2024	1	17.23	73.89	12.3	33.59	8.6	24.4	5.32
I32	28 May 2024	2	17.11	74.44	11.5	33.61	8.6	24.4	6.36
I32	28 May 2024	3	15.49	68.51	8.7	33.68	8.4	24.8	11.83
I32	28 May 2024	4	13.37	63.56	5.8	33.70	8.1	25.3	12.22
I32	28 May 2024	5	11.77	71.78	4.4	33.63	7.8	25.6	6.61
I32	28 May 2024	6	11.65	82.10	4.1	33.61	7.7	25.6	3.75
I32	28 May 2024	7	11.61	83.47	4.0	33.60	7.8	25.6	2.74
I32	28 May 2024	8	11.41	85.58	4.1	33.61	7.8	25.6	2.14
I32	28 May 2024	9	11.33	87.10	4.1	33.62	7.8	25.6	1.68
I32	28 May 2024	10	11.33	84.34	4.0	33.62	7.8	25.6	1.45

NA = not available

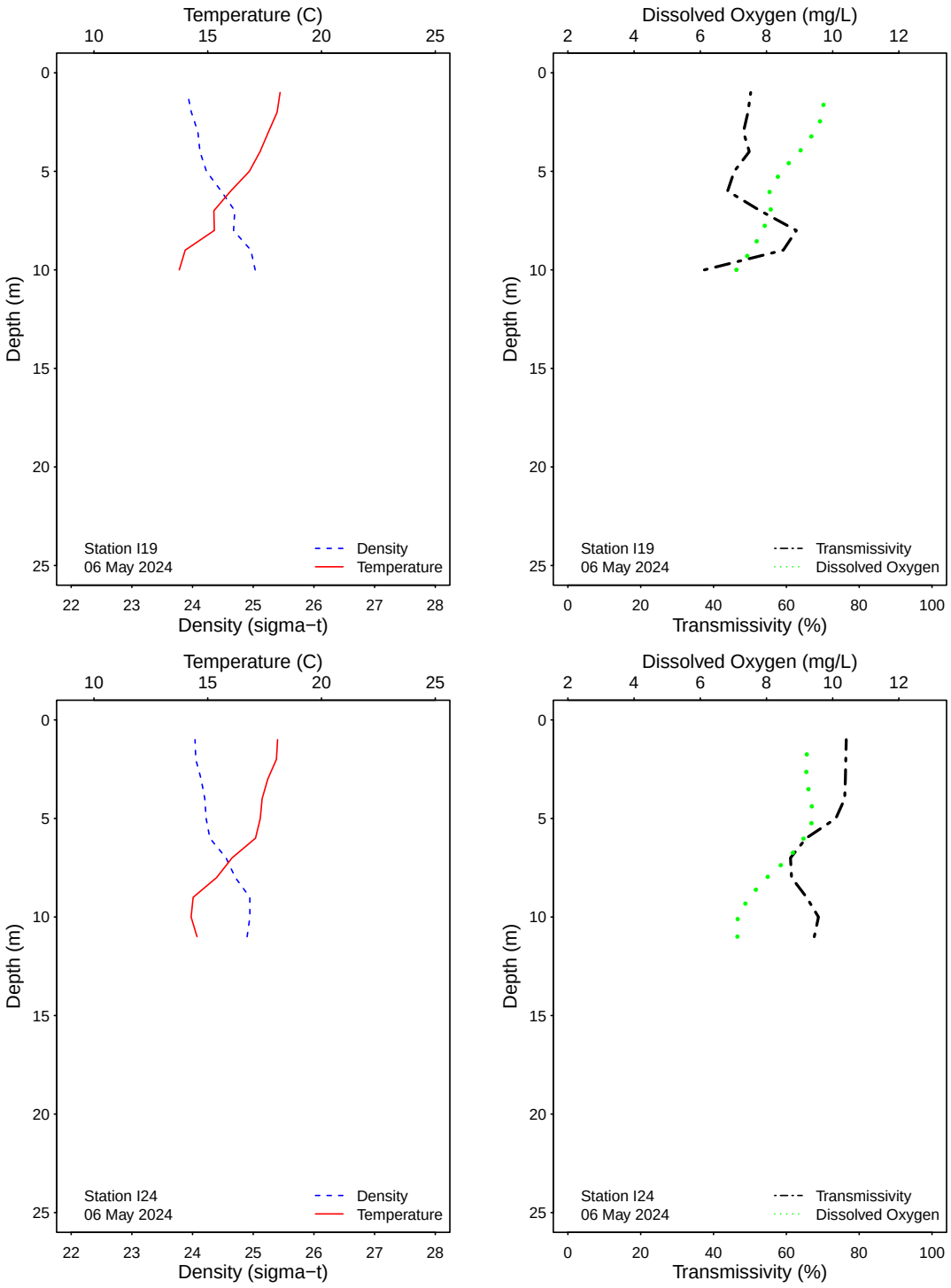

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

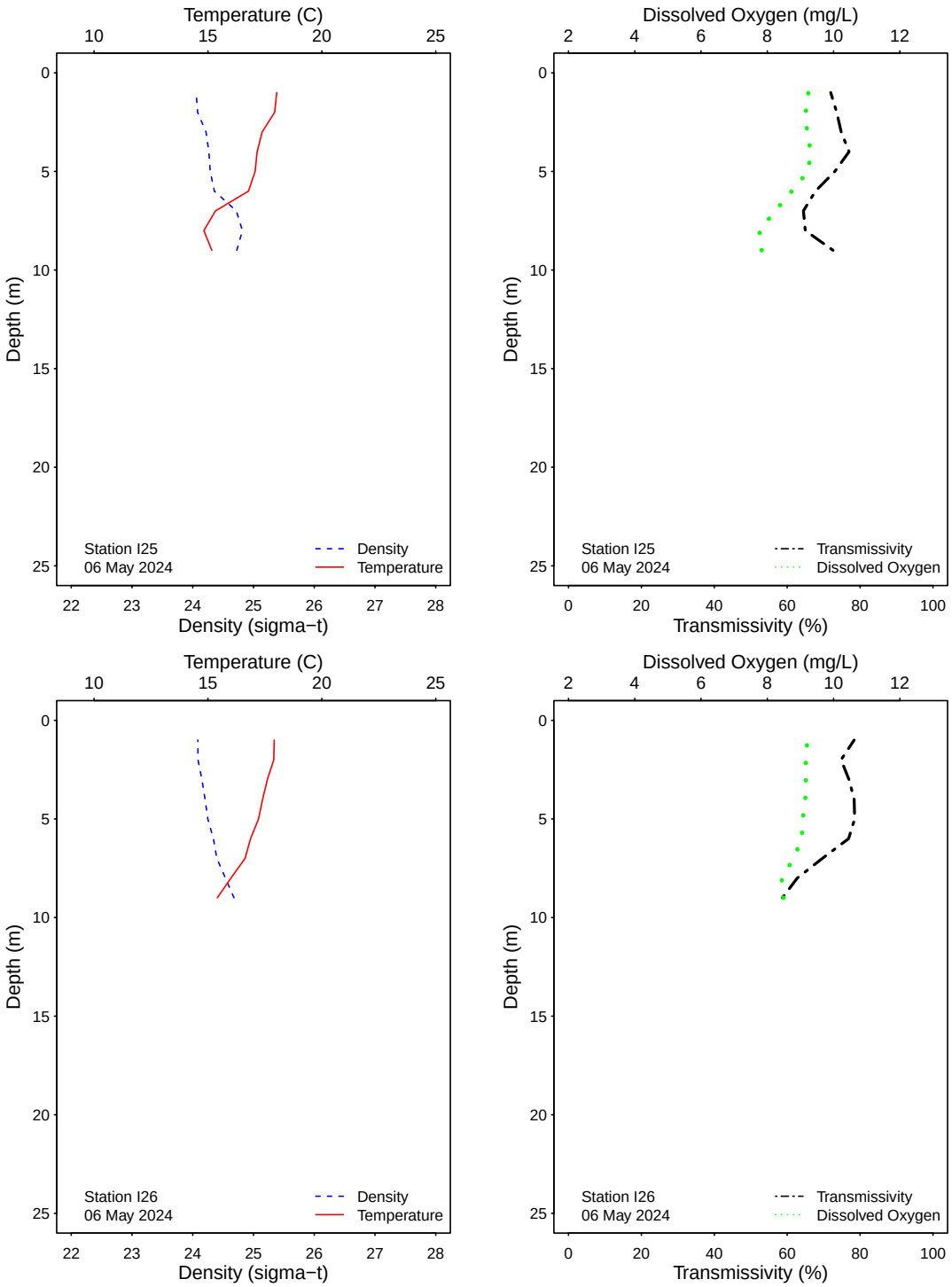

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

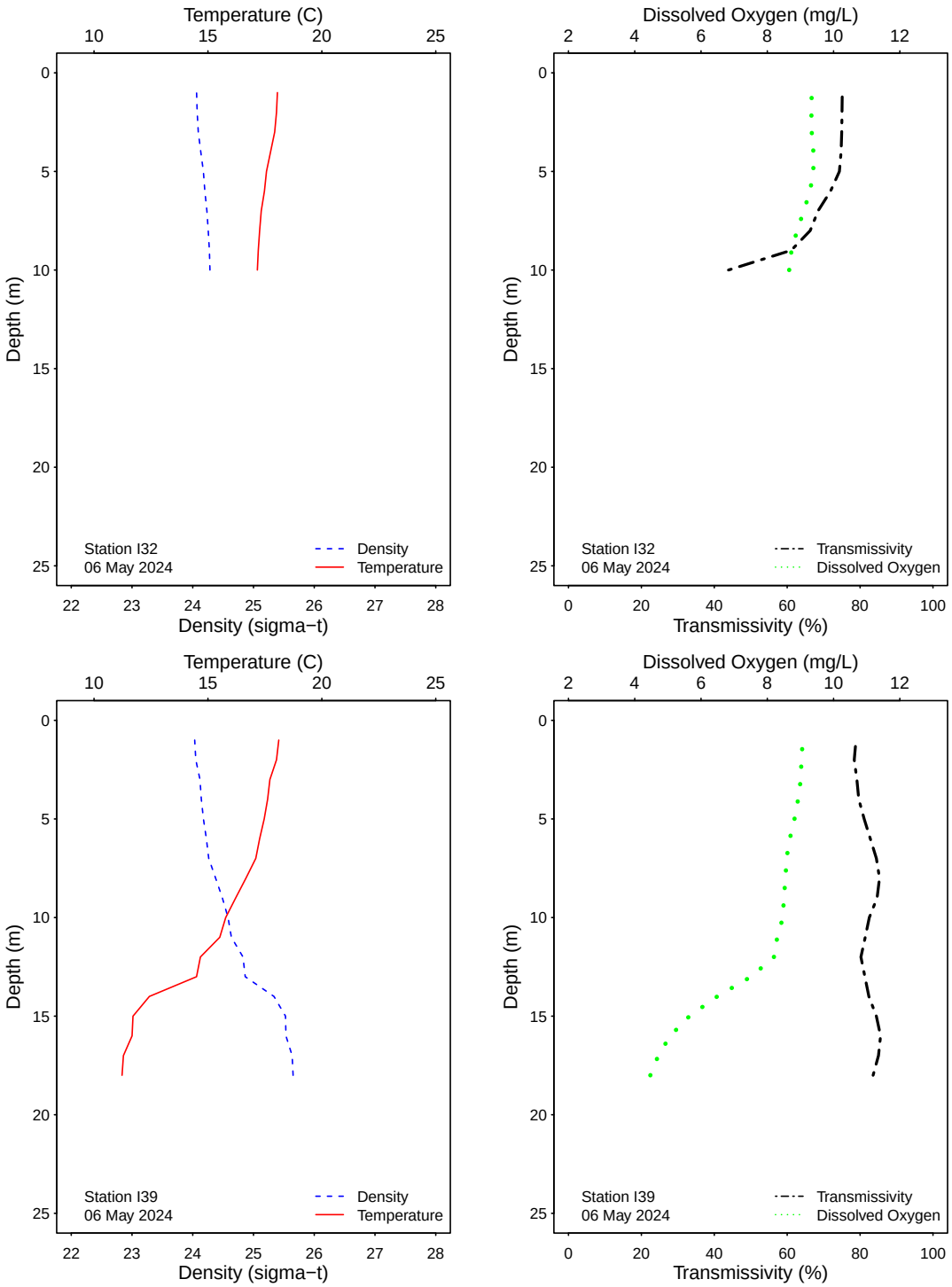

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

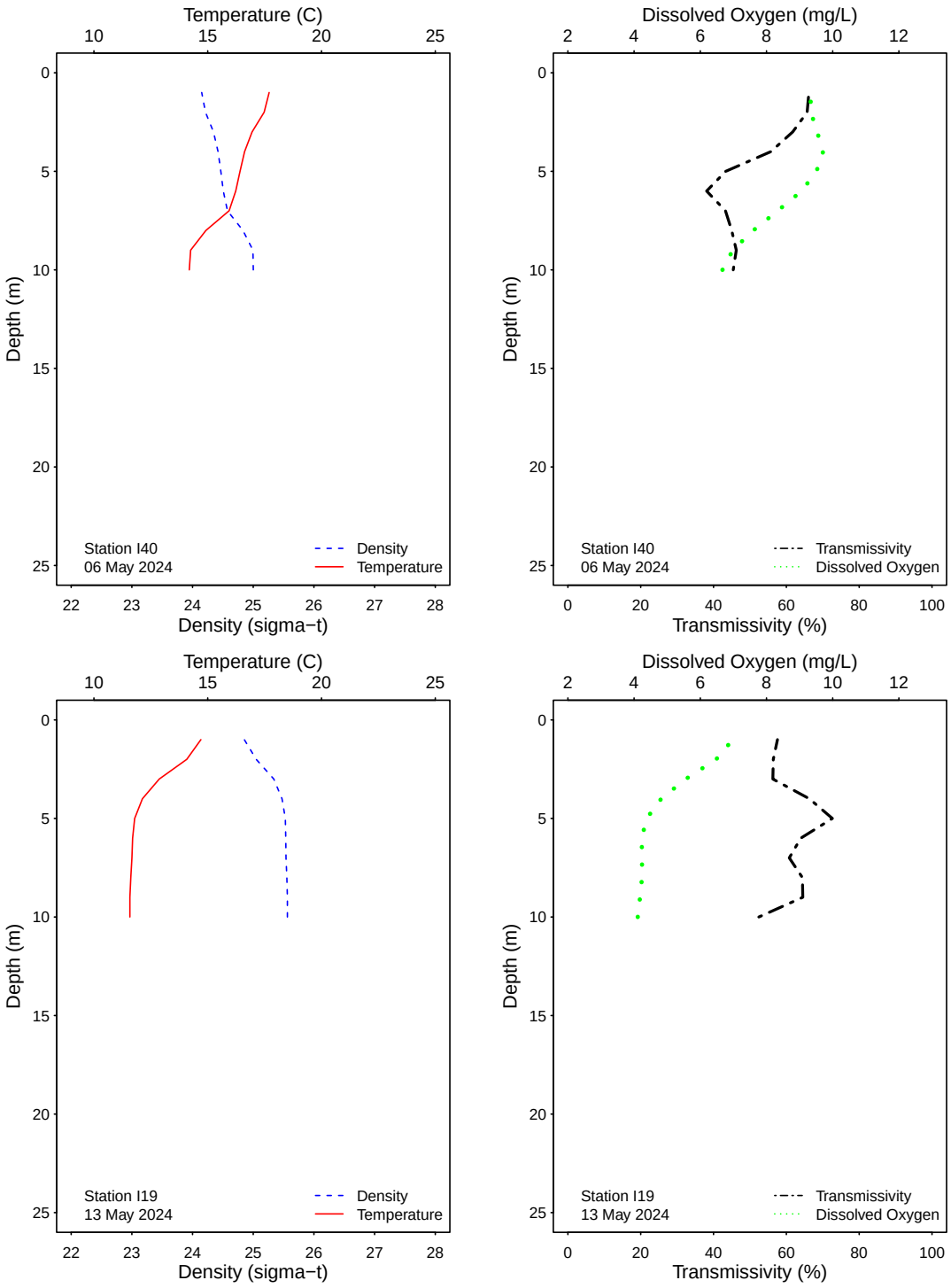

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

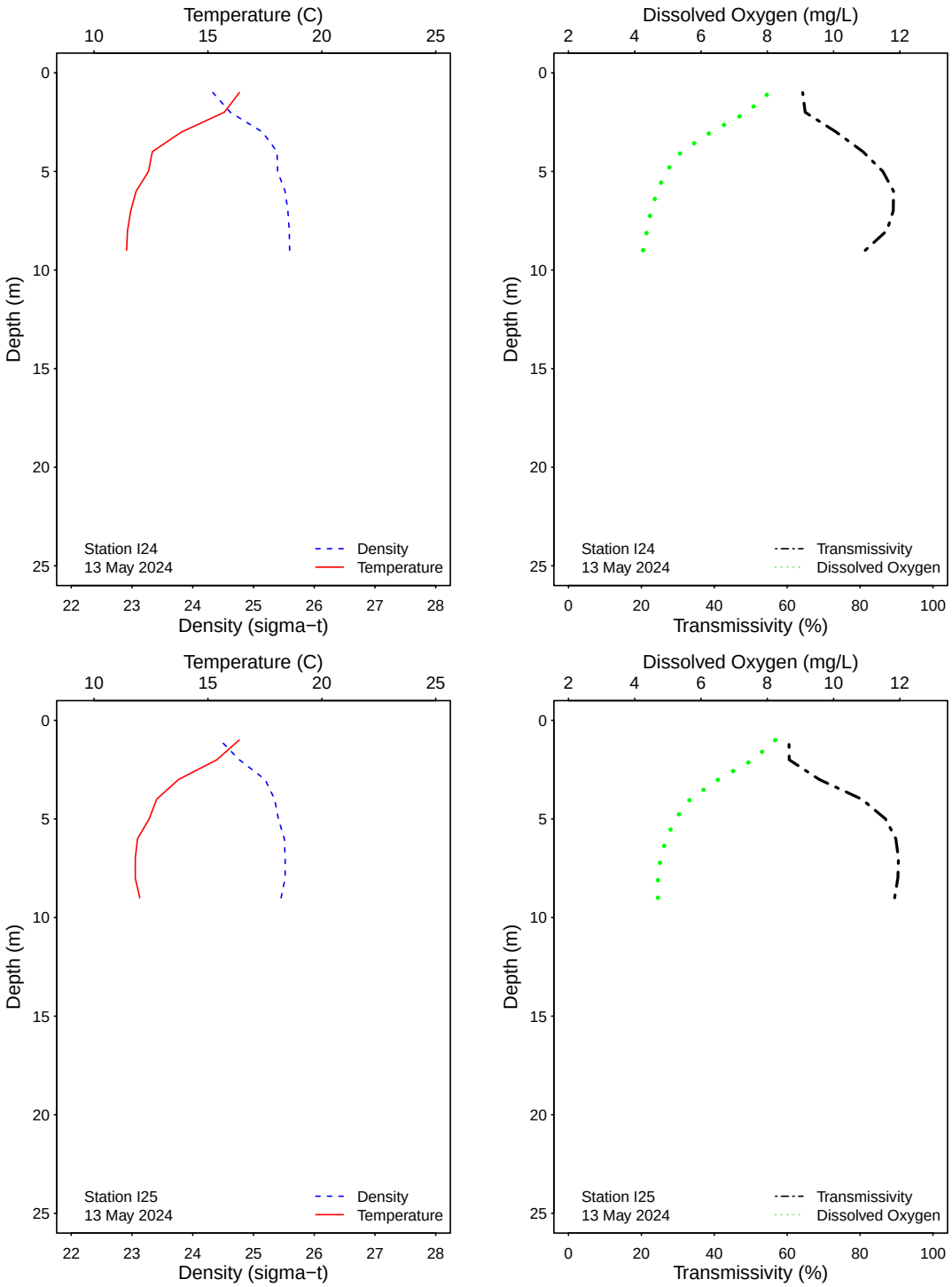

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

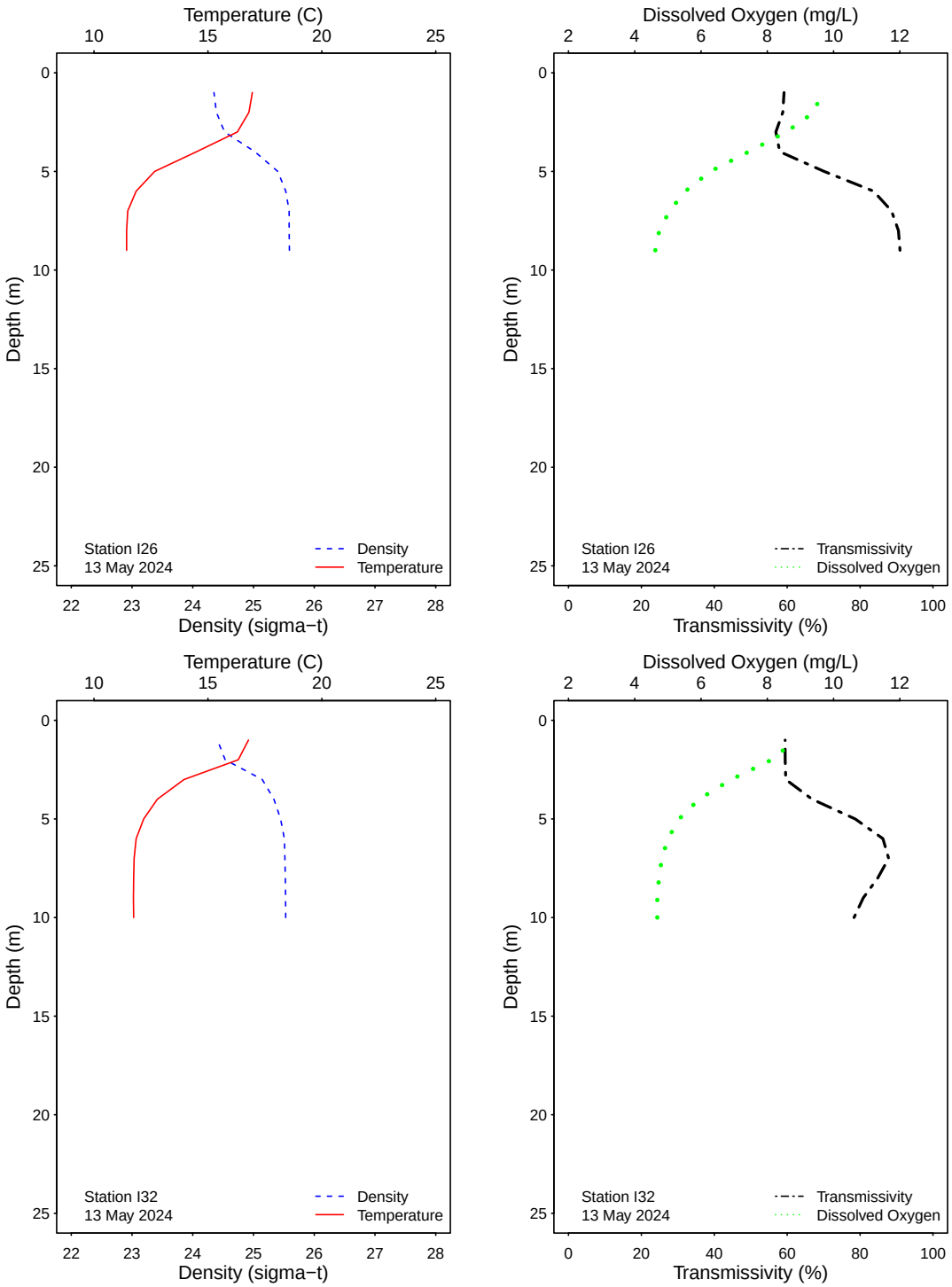

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

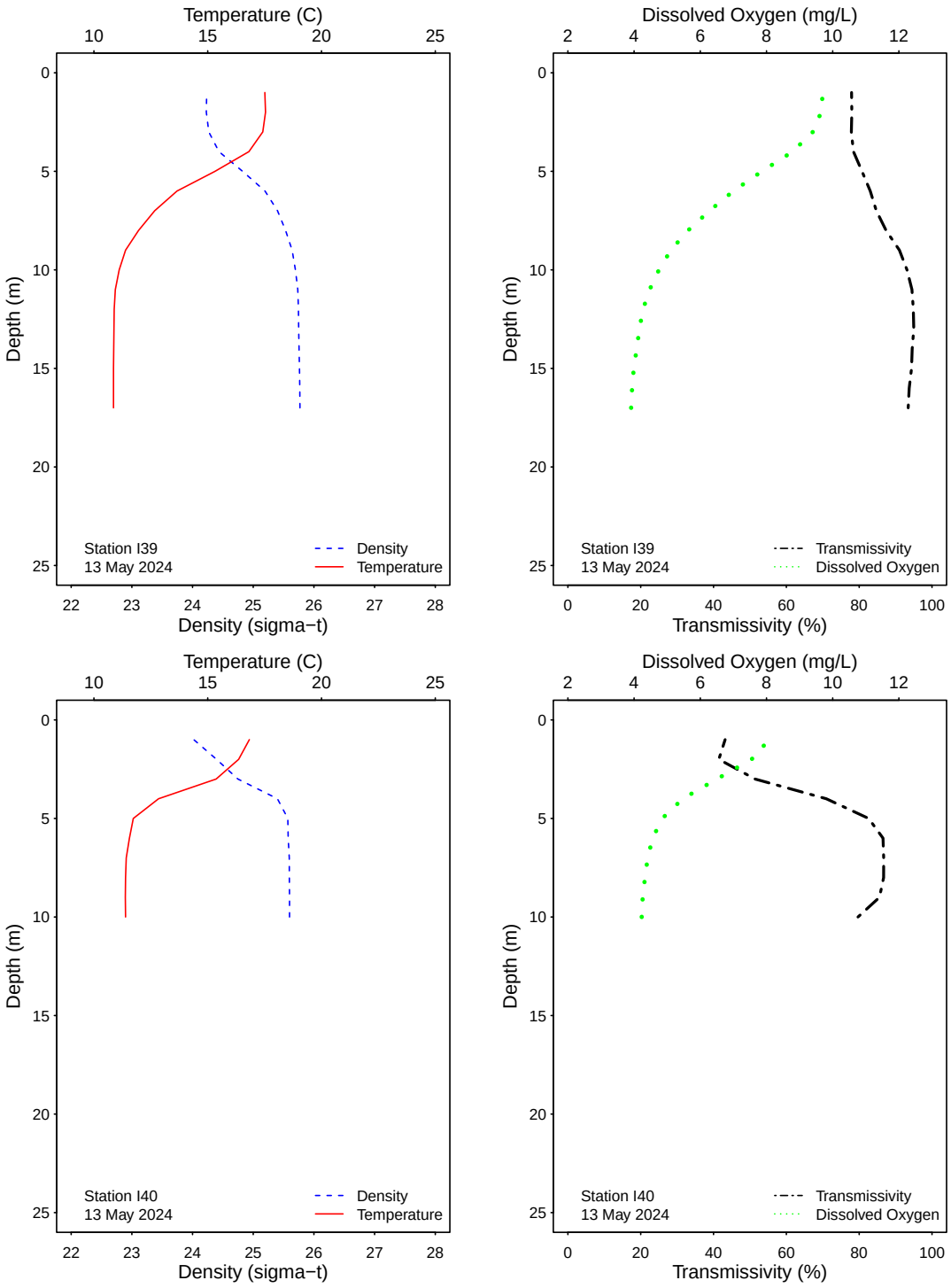

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

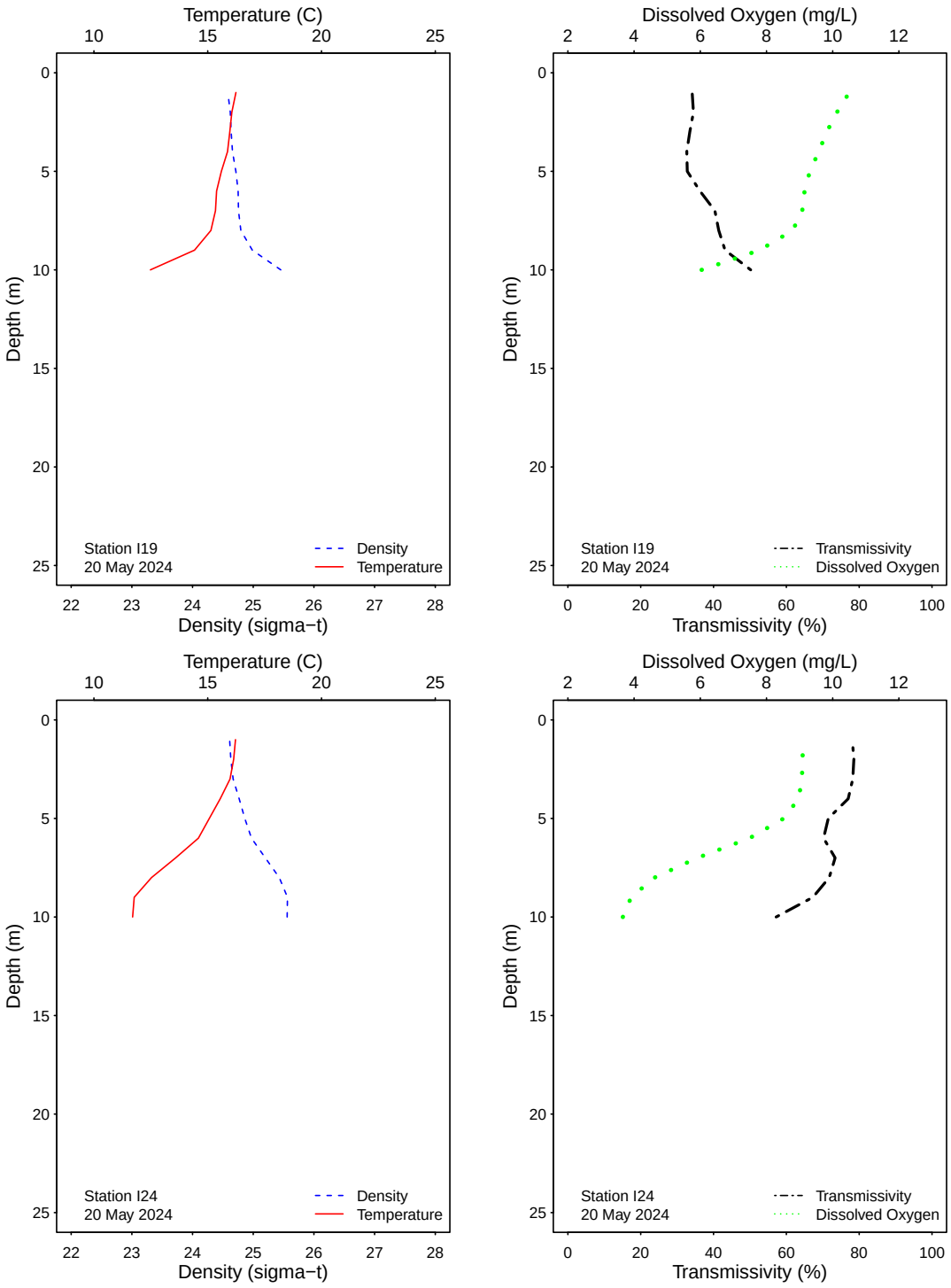

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

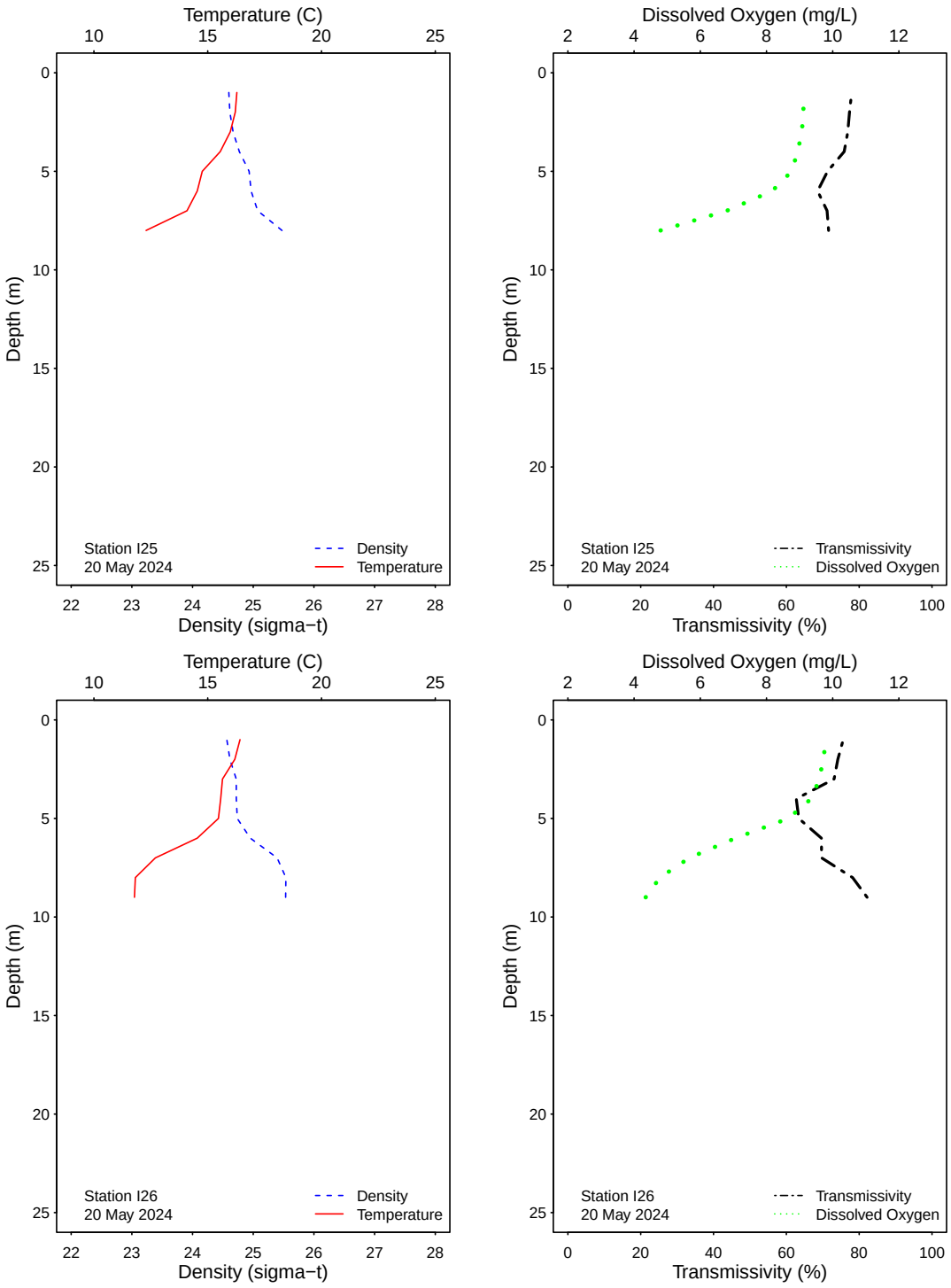

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

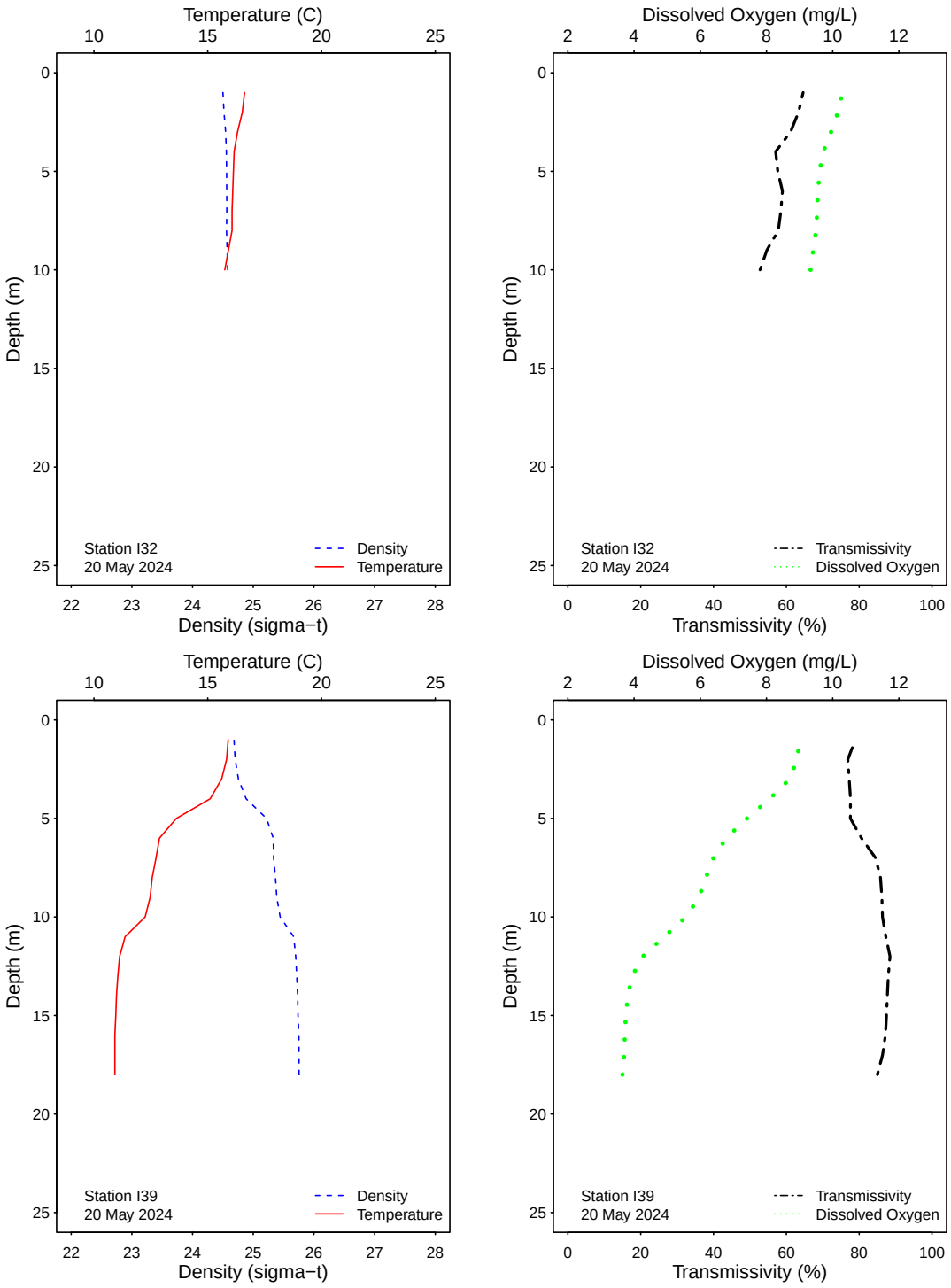

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

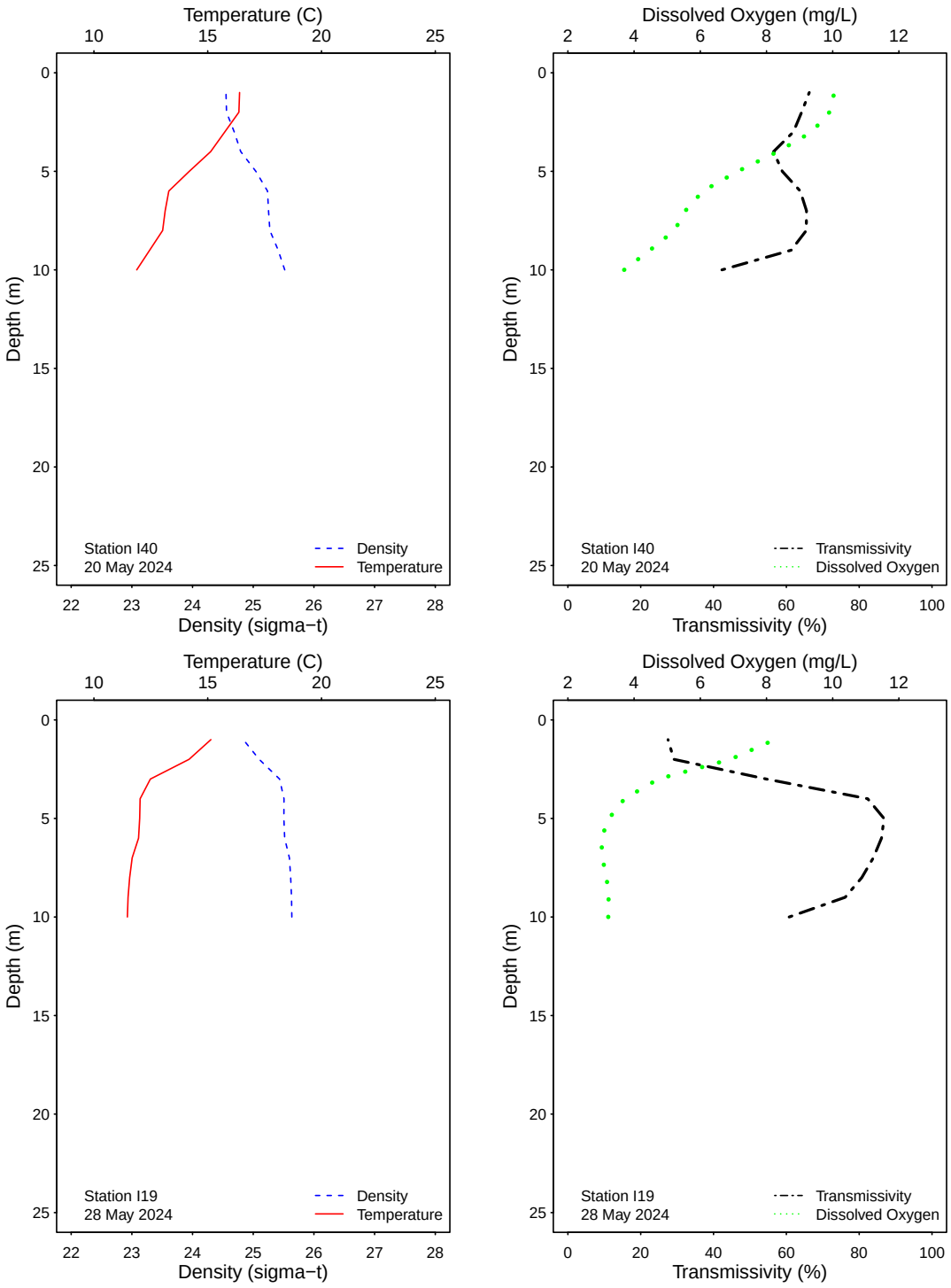

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

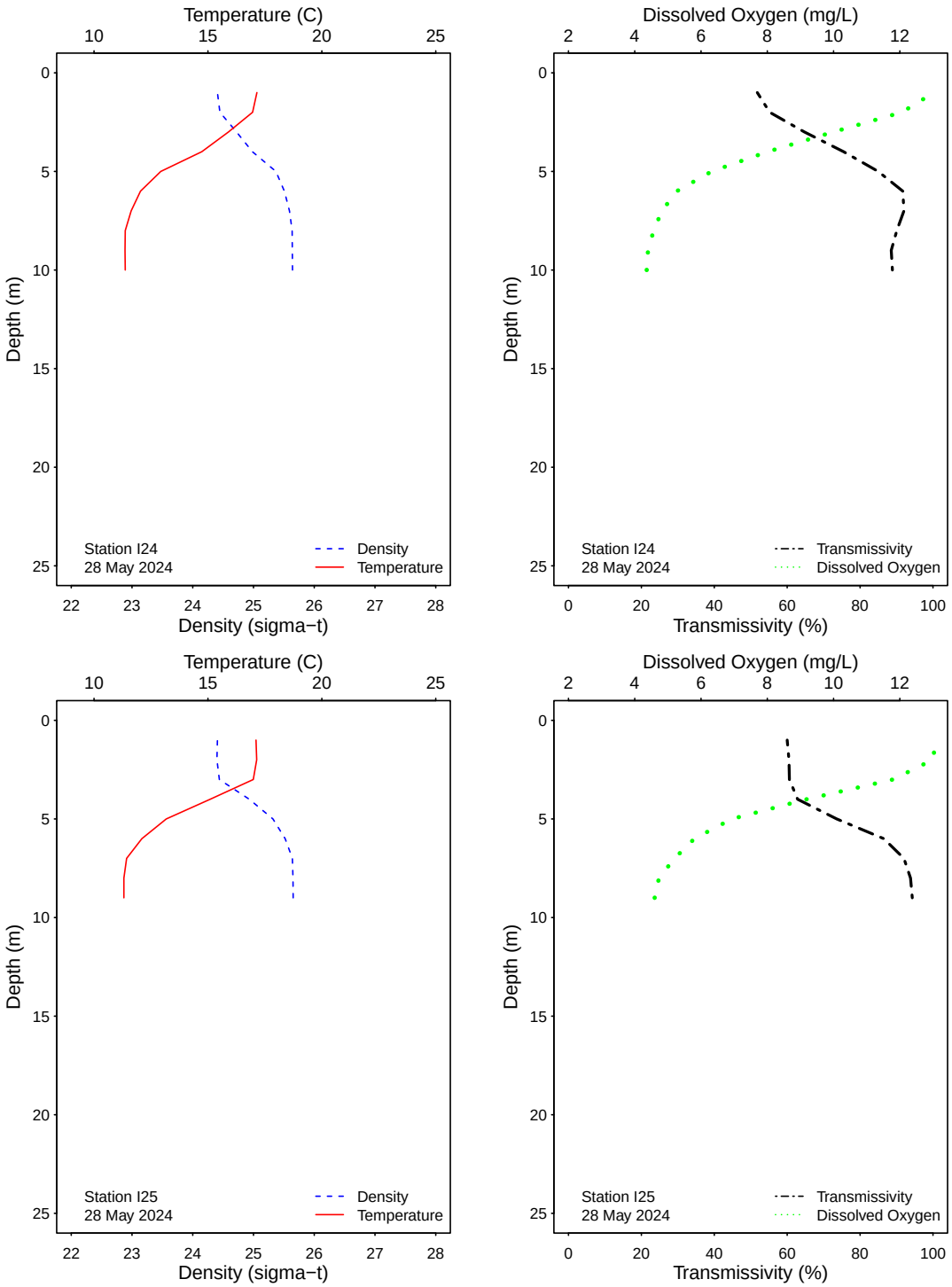

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

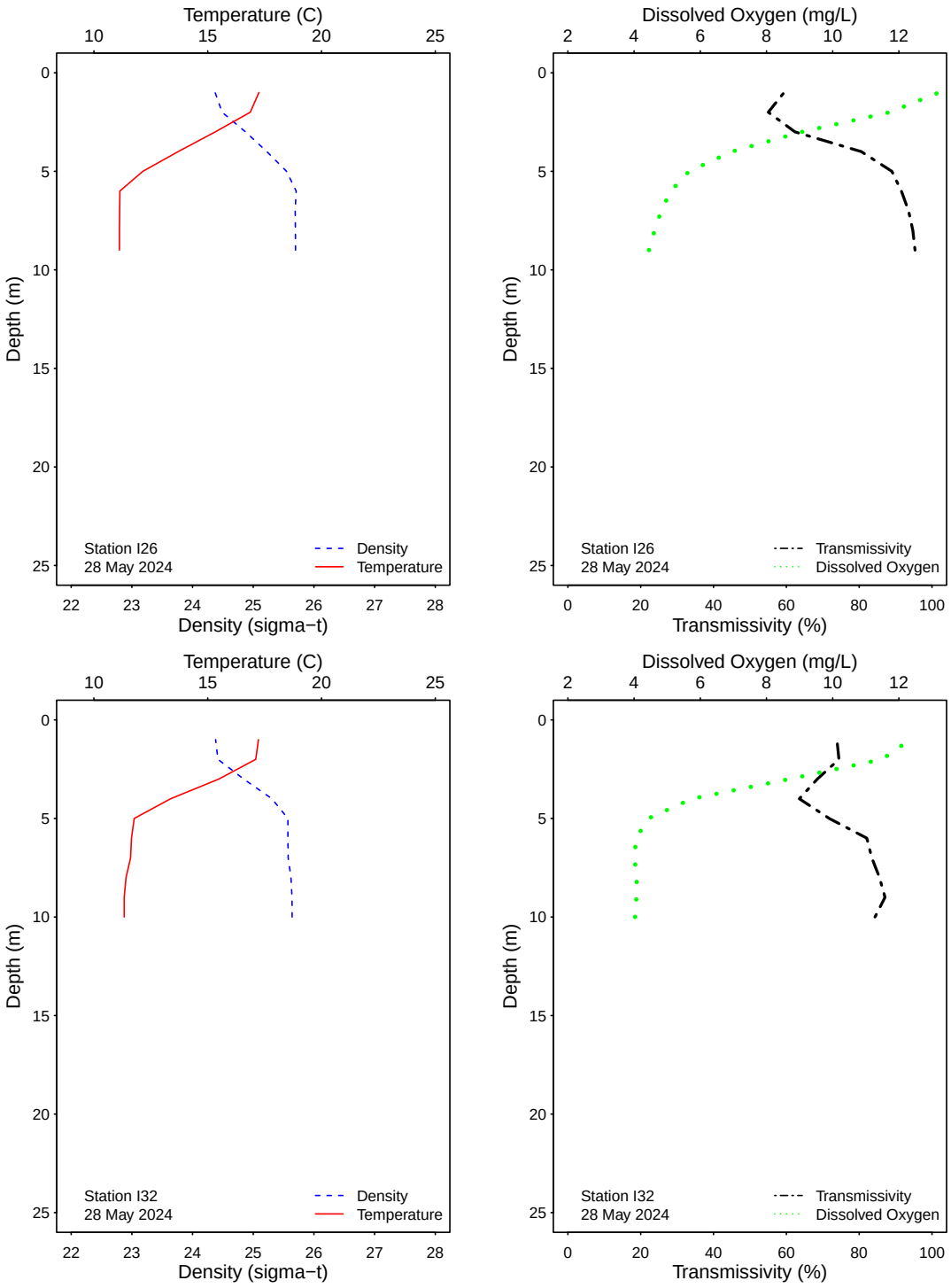

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

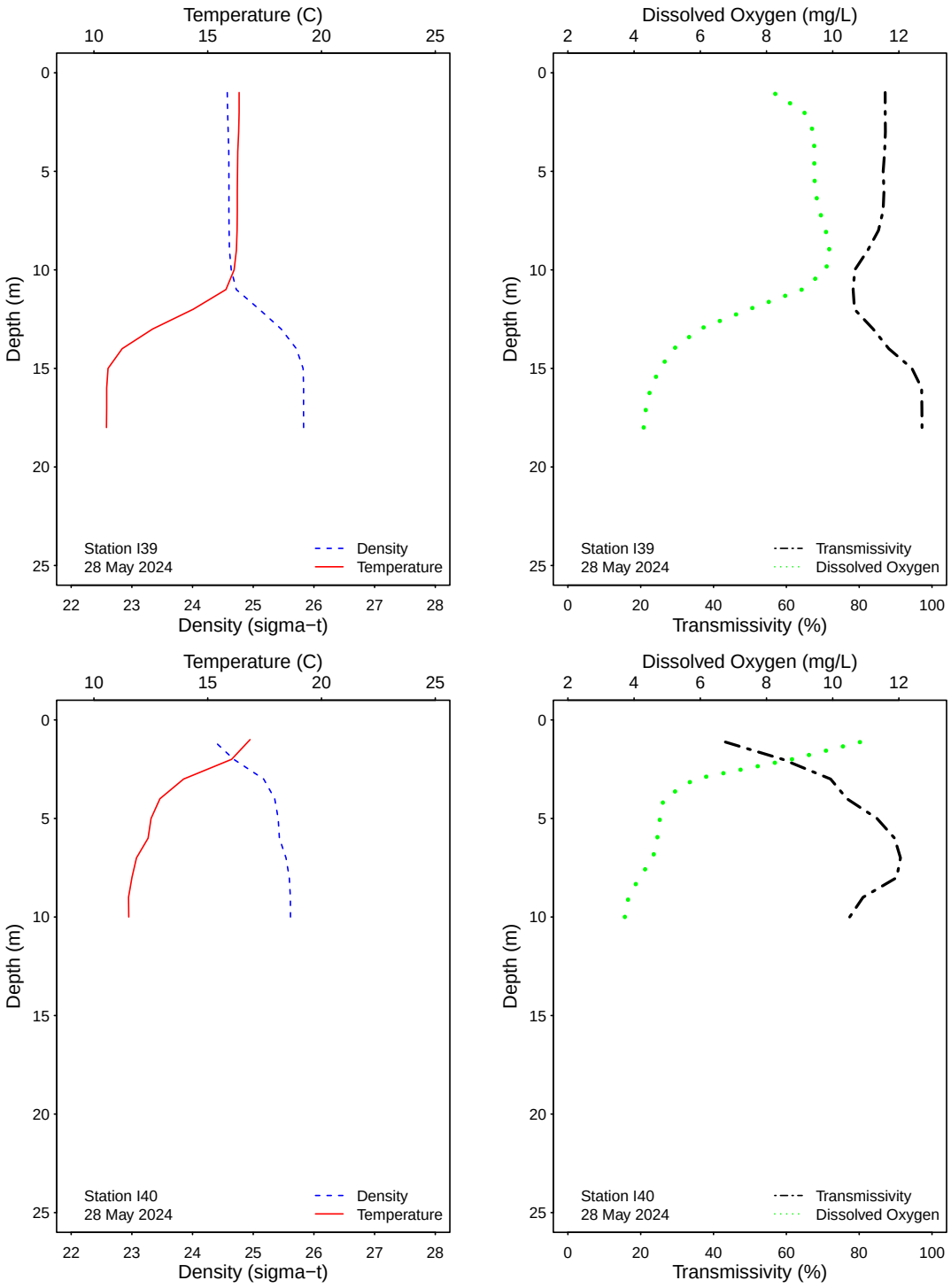

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

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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
08 May 2024	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
10 May 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
May	IC	IC	IC	IC	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**
May	IC	**E**	IC	IC	IC	IC	IC	IC	IC	IC	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	08 May 2024	1105	2	<2	<2	<2
I10	08 May 2024	1105	12	<2	<2	<2
I10	08 May 2024	1105	18	4e	2e	<2
I11	07 May 2024	1003	2	<20	<2	<2
I11	07 May 2024	1003	6	<2	<2	<2
I11	07 May 2024	1003	11	4e	<2	2e
I12	08 May 2024	1152	2	<2	2e	<2
I12	08 May 2024	1152	18			12e
I12	08 May 2024	1152	27	24e	2e	<2
I13	08 May 2024	1211	2	<2	<2	<2
I13	08 May 2024	1211	18	<2	<2	<2
I13	08 May 2024	1211	37	<2	2e	<2
I14	08 May 2024	1226	2	<2	<2	<2
I14	08 May 2024	1226	18	<2	<2	<2
I14	08 May 2024	1226	27	4e	2e	<2
I16	08 May 2024	1141	2	<2	<2	<2
I16	08 May 2024	1141	18		26e	12e
I16	08 May 2024	1141	27	2e	2e	<2
I18	08 May 2024	1120	2	<2	<2	<2
I18	08 May 2024	1120	12	<2	<2	<2
I18	08 May 2024	1120	18	2e	<2	<2
I20	08 May 2024	931	2	<2	<2	<2
I20	08 May 2024	931	18	<2	<2	<2
I20	08 May 2024	931	55	<2	<2	<2
I21	08 May 2024	946	2	<2	<2	<2
I21	08 May 2024	946	18	<2	<2	<2
I21	08 May 2024	946	37	<2	<2	<2
I22	08 May 2024	1254	2	<2	<2	<2
I22	08 May 2024	1254	18	<2	<2	<2
I22	08 May 2024	1254	27	2e	2e	<2
I23	08 May 2024	1241	2	<2	<2	<2
I23	08 May 2024	1241	12	6e	2e	<2
I23	08 May 2024	1241	18	<20	2e	<2
I3	07 May 2024	919	2	<2	<2	<2
I3	07 May 2024	919	18	30e	4e	2e
I3	07 May 2024	919	27	8e	<2	2e
I30	10 May 2024	848	2	<2	<2	<2
I30	10 May 2024	848	18	<2	<2	<2
I30	10 May 2024	848	27	6e	12e	24e

Station	Date	Time	Depth	Total	Fecal	Entero
I33	10 May 2024	801	2	<2	2e	<2
I33	10 May 2024	801	18	<2	<2	<2
I33	10 May 2024	801	27	26e	8e	2e
I36	10 May 2024	917	2	40e	6e	2e
I36	10 May 2024	917	6	40e	6e	4e
I36	10 May 2024	917	11	60e	2e	<2
I37	10 May 2024	739	2	<20	<2	<2
I37	10 May 2024	739	6	20e	<2	2e
I37	10 May 2024	739	11	2e	2e	<2
I38	10 May 2024	941	2	<20	8e	<2
I38	10 May 2024	941	6	<20	6e	<2
I38	10 May 2024	941	11	<20	<2	<2
I5	07 May 2024	951	2	<20	<2	<2
I5	07 May 2024	951	6	1800e	300e	
I5	07 May 2024	951	11	20e	4e	2e
I7	07 May 2024	853	2	<2	<2	<2
I7	07 May 2024	853	18	<2	<2	<2
I7	07 May 2024	853	52	2e	<2	<2
I8	08 May 2024	1036	2	<2	<2	<2
I8	08 May 2024	1036	18	<2	<2	<2
I8	08 May 2024	1036	37	<2	<2	<2
I9	08 May 2024	1050	2	2e	<2	2e
I9	08 May 2024	1050	18	2e	<2	<2
I9	08 May 2024	1050	27	12e	2e	<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	07 May 2024	Arrive Time	1000
I3	07 May 2024	Depart Time	1003
I3	07 May 2024	Air Temp (C)	15.4
I3	07 May 2024	Visibility (mi)	10
I3	07 May 2024	Wind Speed (kts)	10.2
I3	07 May 2024	Wind Dir	S
I3	07 May 2024	Sea State	Regular Swell
I3	07 May 2024	High Tide Time	2106
I3	07 May 2024	Low Tide Time	318
I3	07 May 2024	Comments	
I4	07 May 2024	Arrive Time	1013
I4	07 May 2024	Depart Time	1017
I4	07 May 2024	Air Temp (C)	15.5
I4	07 May 2024	Visibility (mi)	10
I4	07 May 2024	Wind Speed (kts)	9.3
I4	07 May 2024	Wind Dir	S
I4	07 May 2024	Sea State	Regular Swell
I4	07 May 2024	High Tide Time	2106
I4	07 May 2024	Low Tide Time	318
I4	07 May 2024	Comments	
I5	07 May 2024	Arrive Time	1021
I5	07 May 2024	Depart Time	1025
I5	07 May 2024	Air Temp (C)	15.2
I5	07 May 2024	Visibility (mi)	10
I5	07 May 2024	Wind Speed (kts)	12.3
I5	07 May 2024	Wind Dir	SE
I5	07 May 2024	Sea State	Regular Swell
I5	07 May 2024	High Tide Time	2106
I5	07 May 2024	Low Tide Time	318
I5	07 May 2024	Comments	
I1	07 May 2024	Arrive Time	912
I1	07 May 2024	Depart Time	919
I1	07 May 2024	Air Temp (C)	15.3
I1	07 May 2024	Visibility (mi)	10
I1	07 May 2024	Wind Speed (kts)	13.5
I1	07 May 2024	Wind Dir	S
I1	07 May 2024	Sea State	Light Chop
I1	07 May 2024	High Tide Time	2106
I1	07 May 2024	Low Tide Time	318
I1	07 May 2024	Comments	Bottle 309-30m; 780-60m; no # 60m dupe. CDOM negative at I7. OA 1m Btl# JA24379-1 Nsk# 1;OA 30m Btl# JA24380-1 Nsk# 2;OA 60m Btl# JA24381-1 Nsk# 3;OA 60m-dup Btl# JA24382-1 Nsk# 4;
I2	07 May 2024	Arrive Time	944
I2	07 May 2024	Depart Time	951
I2	07 May 2024	Air Temp (C)	15.4
I2	07 May 2024	Visibility (mi)	10
I2	07 May 2024	Wind Speed (kts)	8
I2	07 May 2024	Wind Dir	S
I2	07 May 2024	Sea State	Regular Swell
I2	07 May 2024	High Tide Time	2106
I2	07 May 2024	Low Tide Time	318

Station	Date	Parameter	Value
I2	07 May 2024	Comments	
I6	07 May 2024	Arrive Time	1041
I6	07 May 2024	Depart Time	1044
I6	07 May 2024	Air Temp (C)	15.7
I6	07 May 2024	Visibility (mi)	10
I6	07 May 2024	Wind Speed (kts)	8.8
I6	07 May 2024	Wind Dir	S
I6	07 May 2024	Sea State	Regular Swell
I6	07 May 2024	High Tide Time	2106
I6	07 May 2024	Low Tide Time	318
I6	07 May 2024	Comments	
I9	08 May 2024	Arrive Time	1050
I9	08 May 2024	Depart Time	1053
I9	08 May 2024	Air Temp (C)	15.3
I9	08 May 2024	Visibility (mi)	9
I9	08 May 2024	Wind Speed (kts)	11.6
I9	08 May 2024	Wind Dir	SE
I9	08 May 2024	Sea State	Heavy Chop
I9	08 May 2024	High Tide Time	2142
I9	08 May 2024	Low Tide Time	412
I9	08 May 2024	Comments	
I11	07 May 2024	Arrive Time	1054
I11	07 May 2024	Depart Time	1059
I11	07 May 2024	Air Temp (C)	16.1
I11	07 May 2024	Visibility (mi)	10
I11	07 May 2024	Wind Speed (kts)	7.3
I11	07 May 2024	Wind Dir	SE
I11	07 May 2024	Sea State	Regular Swell
I11	07 May 2024	High Tide Time	2106
I11	07 May 2024	Low Tide Time	318
I11	07 May 2024	Comments	
I10	08 May 2024	Arrive Time	1105
I10	08 May 2024	Depart Time	1109
I10	08 May 2024	Air Temp (C)	15.3
I10	08 May 2024	Visibility (mi)	9
I10	08 May 2024	Wind Speed (kts)	10.3
I10	08 May 2024	Wind Dir	SE
I10	08 May 2024	Sea State	Heavy Chop
I10	08 May 2024	High Tide Time	2142
I10	08 May 2024	Low Tide Time	412
I10	08 May 2024	Comments	
I7	07 May 2024	Arrive Time	845
I7	07 May 2024	Depart Time	853
I7	07 May 2024	Air Temp (C)	15.2
I7	07 May 2024	Visibility (mi)	10
I7	07 May 2024	Wind Speed (kts)	8.8
I7	07 May 2024	Wind Dir	S
I7	07 May 2024	Sea State	Light Chop
I7	07 May 2024	High Tide Time	2106
I7	07 May 2024	Low Tide Time	318
I7	07 May 2024	Comments	
I8	08 May 2024	Arrive Time	1036
I8	08 May 2024	Depart Time	1041
I8	08 May 2024	Air Temp (C)	15.2
I8	08 May 2024	Visibility (mi)	9

Station	Date	Parameter	Value
I8	08 May 2024	Wind Speed (kts)	14
I8	08 May 2024	Wind Dir	SE
I8	08 May 2024	Sea State	Heavy Chop
I8	08 May 2024	High Tide Time	2142
I8	08 May 2024	Low Tide Time	412
I8	08 May 2024	Comments	
I12	08 May 2024	Arrive Time	1152
I12	08 May 2024	Depart Time	1156
I12	08 May 2024	Air Temp (C)	15.5
I12	08 May 2024	Visibility (mi)	9
I12	08 May 2024	Wind Speed (kts)	13.4
I12	08 May 2024	Wind Dir	SE
I12	08 May 2024	Sea State	Heavy Chop
I12	08 May 2024	High Tide Time	2142
I12	08 May 2024	Low Tide Time	412
I12	08 May 2024	Comments	Overwrote I12 with I15 by accident; nominal coordinates used
I18	08 May 2024	Arrive Time	1120
I18	08 May 2024	Depart Time	1123
I18	08 May 2024	Air Temp (C)	15.6
I18	08 May 2024	Visibility (mi)	9
I18	08 May 2024	Wind Speed (kts)	12.4
I18	08 May 2024	Wind Dir	SE
I18	08 May 2024	Sea State	Heavy Chop
I18	08 May 2024	High Tide Time	2142
I18	08 May 2024	Low Tide Time	412
I18	08 May 2024	Comments	
I13	08 May 2024	Arrive Time	1211
I13	08 May 2024	Depart Time	1220
I13	08 May 2024	Air Temp (C)	15.6
I13	08 May 2024	Visibility (mi)	9
I13	08 May 2024	Wind Speed (kts)	11.2
I13	08 May 2024	Wind Dir	S
I13	08 May 2024	Sea State	Heavy Chop
I13	08 May 2024	High Tide Time	2142
I13	08 May 2024	Low Tide Time	412
I13	08 May 2024	Comments	
I15	08 May 2024	Arrive Time	1200
I15	08 May 2024	Depart Time	1202
I15	08 May 2024	Air Temp (C)	15.5
I15	08 May 2024	Visibility (mi)	9
I15	08 May 2024	Wind Speed (kts)	10.9
I15	08 May 2024	Wind Dir	S
I15	08 May 2024	Sea State	Heavy Chop
I15	08 May 2024	High Tide Time	2142
I15	08 May 2024	Low Tide Time	412
I15	08 May 2024	Comments	
I16	08 May 2024	Arrive Time	1141
I16	08 May 2024	Depart Time	1145
I16	08 May 2024	Air Temp (C)	15.4
I16	08 May 2024	Visibility (mi)	9
I16	08 May 2024	Wind Speed (kts)	11.4
I16	08 May 2024	Wind Dir	SE
I16	08 May 2024	Sea State	Heavy Chop
I16	08 May 2024	High Tide Time	2142
I16	08 May 2024	Low Tide Time	412
I16	08 May 2024	Comments	

Station	Date	Parameter	Value
I17	08 May 2024	Arrive Time	1133
I17	08 May 2024	Depart Time	1136
I17	08 May 2024	Air Temp (C)	15.3
I17	08 May 2024	Visibility (mi)	9
I17	08 May 2024	Wind Speed (kts)	12.5
I17	08 May 2024	Wind Dir	SE
I17	08 May 2024	Sea State	Heavy Chop
I17	08 May 2024	High Tide Time	2142
I17	08 May 2024	Low Tide Time	412
I17	08 May 2024	Comments	
I14	08 May 2024	Arrive Time	1226
I14	08 May 2024	Depart Time	1230
I14	08 May 2024	Air Temp (C)	15.4
I14	08 May 2024	Visibility (mi)	9
I14	08 May 2024	Wind Speed (kts)	12.6
I14	08 May 2024	Wind Dir	SE
I14	08 May 2024	Sea State	Heavy Chop
I14	08 May 2024	High Tide Time	2142
I14	08 May 2024	Low Tide Time	412
I14	08 May 2024	Comments	
I23	08 May 2024	Arrive Time	1241
I23	08 May 2024	Depart Time	1247
I23	08 May 2024	Air Temp (C)	15.6
I23	08 May 2024	Visibility (mi)	9
I23	08 May 2024	Wind Speed (kts)	11.9
I23	08 May 2024	Wind Dir	SE
I23	08 May 2024	Sea State	Heavy Chop
I23	08 May 2024	High Tide Time	2142
I23	08 May 2024	Low Tide Time	412
I23	08 May 2024	Comments	
I22	08 May 2024	Arrive Time	1254
I22	08 May 2024	Depart Time	1257
I22	08 May 2024	Air Temp (C)	15.8
I22	08 May 2024	Visibility (mi)	9
I22	08 May 2024	Wind Speed (kts)	11.6
I22	08 May 2024	Wind Dir	S
I22	08 May 2024	Sea State	Heavy Chop
I22	08 May 2024	High Tide Time	2142
I22	08 May 2024	Low Tide Time	412
I22	08 May 2024	Comments	
I20	08 May 2024	Arrive Time	931
I20	08 May 2024	Depart Time	938
I20	08 May 2024	Air Temp (C)	15.2
I20	08 May 2024	Visibility (mi)	9
I20	08 May 2024	Wind Speed (kts)	7.8
I20	08 May 2024	Wind Dir	SE
I20	08 May 2024	Sea State	Heavy Chop
I20	08 May 2024	High Tide Time	2142
I20	08 May 2024	Low Tide Time	412
I20	08 May 2024	Comments	Troubleshooting COM ports on NavOps so sampling started later
I21	08 May 2024	Arrive Time	946
I21	08 May 2024	Depart Time	953
I21	08 May 2024	Air Temp (C)	14.9
I21	08 May 2024	Visibility (mi)	9

Station	Date	Parameter	Value
I21	08 May 2024	Wind Speed (kts)	9.3
I21	08 May 2024	Wind Dir	SE
I21	08 May 2024	Sea State	Heavy Chop
I21	08 May 2024	High Tide Time	2142
I21	08 May 2024	Low Tide Time	412
I21	08 May 2024	Comments	OA 1m Btl# JA24383-1 Nsk# 6;OA 41m Btl# JA24384-1 Nsk# 4;
I27	08 May 2024	Arrive Time	1306
I27	08 May 2024	Depart Time	1311
I27	08 May 2024	Air Temp (C)	15.6
I27	08 May 2024	Visibility (mi)	9
I27	08 May 2024	Wind Speed (kts)	11.9
I27	08 May 2024	Wind Dir	S
I27	08 May 2024	Sea State	Heavy Chop
I27	08 May 2024	High Tide Time	2142
I27	08 May 2024	Low Tide Time	412
I27	08 May 2024	Comments	
I28	10 May 2024	Arrive Time	818
I28	10 May 2024	Depart Time	828
I28	10 May 2024	Air Temp (C)	15.7
I28	10 May 2024	Visibility (mi)	10
I28	10 May 2024	Wind Speed (kts)	5.4
I28	10 May 2024	Wind Dir	SE
I28	10 May 2024	Sea State	Light Chop
I28	10 May 2024	High Tide Time	2254
I28	10 May 2024	Low Tide Time	542
I28	10 May 2024	Comments	OA 1m Btl# JA24388-1 Nsk# 1;OA 55m Btl# JA24389-1 Nsk# 3;
I29	10 May 2024	Arrive Time	837
I29	10 May 2024	Depart Time	840
I29	10 May 2024	Air Temp (C)	15.7
I29	10 May 2024	Visibility (mi)	7
I29	10 May 2024	Wind Speed (kts)	3.5
I29	10 May 2024	Wind Dir	NE
I29	10 May 2024	Sea State	Light Chop
I29	10 May 2024	High Tide Time	2254
I29	10 May 2024	Low Tide Time	542
I29	10 May 2024	Comments	
I30	10 May 2024	Arrive Time	848
I30	10 May 2024	Depart Time	851
I30	10 May 2024	Air Temp (C)	15.7
I30	10 May 2024	Visibility (mi)	7
I30	10 May 2024	Wind Speed (kts)	3.7
I30	10 May 2024	Wind Dir	NE
I30	10 May 2024	Sea State	Light Chop
I30	10 May 2024	High Tide Time	2254
I30	10 May 2024	Low Tide Time	542
I30	10 May 2024	Comments	
I31	10 May 2024	Arrive Time	859
I31	10 May 2024	Depart Time	903
I31	10 May 2024	Air Temp (C)	15.8
I31	10 May 2024	Visibility (mi)	7
I31	10 May 2024	Wind Speed (kts)	11
I31	10 May 2024	Wind Dir	NE
I31	10 May 2024	Sea State	Light Chop
I31	10 May 2024	High Tide Time	2254

Station	Date	Parameter	Value
I31	10 May 2024	Low Tide Time	542
I31	10 May 2024	Comments	
I33	10 May 2024	Arrive Time	801
I33	10 May 2024	Depart Time	806
I33	10 May 2024	Air Temp (C)	15.6
I33	10 May 2024	Visibility (mi)	10
I33	10 May 2024	Wind Speed (kts)	7.4
I33	10 May 2024	Wind Dir	S
I33	10 May 2024	Sea State	Light Chop
I33	10 May 2024	High Tide Time	2254
I33	10 May 2024	Low Tide Time	542
I33	10 May 2024	Comments	
I34	10 May 2024	Arrive Time	751
I34	10 May 2024	Depart Time	756
I34	10 May 2024	Air Temp (C)	15.6
I34	10 May 2024	Visibility (mi)	10
I34	10 May 2024	Wind Speed (kts)	5.9
I34	10 May 2024	Wind Dir	NE
I34	10 May 2024	Sea State	Light Chop
I34	10 May 2024	High Tide Time	2254
I34	10 May 2024	Low Tide Time	542
I34	10 May 2024	Comments	
I35	10 May 2024	Arrive Time	928
I35	10 May 2024	Depart Time	932
I35	10 May 2024	Air Temp (C)	15.9
I35	10 May 2024	Visibility (mi)	7
I35	10 May 2024	Wind Speed (kts)	6.4
I35	10 May 2024	Wind Dir	SW
I35	10 May 2024	Sea State	Light Chop
I35	10 May 2024	High Tide Time	2254
I35	10 May 2024	Low Tide Time	542
I35	10 May 2024	Comments	
I36	10 May 2024	Arrive Time	917
I36	10 May 2024	Depart Time	920
I36	10 May 2024	Air Temp (C)	16
I36	10 May 2024	Visibility (mi)	7
I36	10 May 2024	Wind Speed (kts)	1.1
I36	10 May 2024	Wind Dir	N
I36	10 May 2024	Sea State	Light Chop
I36	10 May 2024	High Tide Time	2254
I36	10 May 2024	Low Tide Time	542
I36	10 May 2024	Comments	
I37	10 May 2024	Arrive Time	739
I37	10 May 2024	Depart Time	744
I37	10 May 2024	Air Temp (C)	15.3
I37	10 May 2024	Visibility (mi)	10
I37	10 May 2024	Wind Speed (kts)	6.4
I37	10 May 2024	Wind Dir	NE
I37	10 May 2024	Sea State	Light Chop
I37	10 May 2024	High Tide Time	2254
I37	10 May 2024	Low Tide Time	542
I37	10 May 2024	Comments	
I38	10 May 2024	Arrive Time	941
I38	10 May 2024	Arrive Time	944
I38	10 May 2024	Depart Time	944

Station	Date	Parameter	Value
I38	10 May 2024	Depart Time	945
I38	10 May 2024	Air Temp (C)	16.1
I38	10 May 2024	Air Temp (C)	16.3
I38	10 May 2024	Visibility (mi)	7
I38	10 May 2024	Wind Speed (kts)	2.7
I38	10 May 2024	Wind Speed (kts)	2.1
I38	10 May 2024	Wind Dir	NW
I38	10 May 2024	Wind Dir	S
I38	10 May 2024	Sea State	Light Chop
I38	10 May 2024	High Tide Time	2254
I38	10 May 2024	Low Tide Time	542
I38	10 May 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	07 May 2024	1	16.65	84.13	8.9	33.44	8.2	24.4	0.88
I3	07 May 2024	2	16.65	84.07	8.9	33.44	8.2	24.4	0.87
I3	07 May 2024	3	16.60	83.84	8.9	33.44	8.2	24.4	0.94
I3	07 May 2024	4	16.55	83.98	8.9	33.44	8.2	24.4	1.15
I3	07 May 2024	5	16.45	84.03	8.8	33.43	8.2	24.4	1.33
I3	07 May 2024	6	16.42	84.88	8.9	33.43	8.2	24.4	1.59
I3	07 May 2024	7	16.37	85.39	8.8	33.43	8.2	24.5	1.72
I3	07 May 2024	8	16.12	86.53	8.8	33.43	8.2	24.5	1.81
I3	07 May 2024	9	16.00	87.87	8.8	33.42	8.2	24.5	2.10
I3	07 May 2024	10	15.36	89.01	8.6	33.42	8.2	24.7	2.25
I3	07 May 2024	11	14.74	88.81	8.3	33.42	8.2	24.8	2.41
I3	07 May 2024	12	14.12	89.15	7.9	33.45	8.1	25.0	2.68
I3	07 May 2024	13	13.22	89.28	7.4	33.49	8.1	25.2	2.94
I3	07 May 2024	14	12.87	88.30	6.8	33.51	8.0	25.3	3.79
I3	07 May 2024	15	11.96	89.26	6.0	33.54	8.0	25.5	3.46
I3	07 May 2024	16	11.63	91.87	5.5	33.55	7.9	25.5	2.55
I3	07 May 2024	17	11.44	93.68	5.1	33.56	7.8	25.6	2.07
I3	07 May 2024	18	11.13	94.17	4.8	33.61	7.8	25.7	1.83
I3	07 May 2024	19	11.04	94.76	4.6	33.63	7.8	25.7	1.70
I3	07 May 2024	20	11.01	95.13	4.5	33.65	7.8	25.7	1.64
I3	07 May 2024	21	11.01	95.38	4.4	33.65	7.8	25.7	1.53
I3	07 May 2024	22	10.98	95.39	4.4	33.65	7.8	25.7	1.53
I3	07 May 2024	23	10.98	95.43	4.4	33.66	7.8	25.7	1.51
I3	07 May 2024	24	10.99	95.48	4.3	33.66	7.8	25.7	1.48
I3	07 May 2024	25	10.98	95.50	4.3	33.66	7.8	25.7	1.52
I3	07 May 2024	26	10.98	95.52	4.3	33.66	7.8	25.7	1.41
I3	07 May 2024	27	10.98	95.52	4.3	33.67	7.8	25.7	1.39
I4	07 May 2024	1	17.07	81.42	8.9	33.44	8.2	24.3	0.85
I4	07 May 2024	2	17.04	81.42	8.8	33.44	8.2	24.3	0.89
I4	07 May 2024	3	16.88	81.39	8.8	33.44	8.2	24.3	1.08
I4	07 May 2024	4	16.58	81.42	8.8	33.45	8.2	24.4	1.46
I4	07 May 2024	5	16.32	81.93	8.7	33.44	8.2	24.5	1.99
I4	07 May 2024	6	15.94	82.57	8.7	33.44	8.2	24.6	2.72
I4	07 May 2024	7	15.67	81.95	8.5	33.44	8.2	24.6	3.75
I4	07 May 2024	8	14.99	80.54	8.1	33.44	8.2	24.8	5.07
I4	07 May 2024	9	13.90	77.97	7.5	33.50	8.1	25.0	6.60
I4	07 May 2024	10	13.09	75.11	6.6	33.54	8.0	25.2	7.74
I4	07 May 2024	11	11.85	72.82	5.5	33.58	7.9	25.5	6.54
I4	07 May 2024	12	11.36	80.74	4.9	33.61	7.8	25.6	4.39
I4	07 May 2024	13	11.26	86.19	4.6	33.61	7.8	25.6	3.26
I4	07 May 2024	14	11.16	87.96	4.5	33.62	7.8	25.7	2.56
I4	07 May 2024	15	11.15	88.82	4.4	33.62	7.8	25.7	2.38
I4	07 May 2024	16	11.13	89.06	4.4	33.62	7.8	25.7	2.21
I4	07 May 2024	17	11.12	88.78	4.3	33.63	7.8	25.7	2.28
I4	07 May 2024	18	11.12	88.72	4.3	33.64	7.8	25.7	2.36
I5	07 May 2024	1	17.02	80.06	8.8	33.45	8.2	24.3	1.04
I5	07 May 2024	2	16.98	80.14	8.7	33.45	8.2	24.3	1.15
I5	07 May 2024	3	16.46	79.95	8.7	33.45	8.2	24.4	2.16
I5	07 May 2024	4	15.85	76.51	8.4	33.46	8.2	24.6	4.33
I5	07 May 2024	5	15.12	72.01	7.6	33.44	8.2	24.7	5.69
I5	07 May 2024	6	13.45	64.51	6.5	33.52	8.0	25.2	5.50
I5	07 May 2024	7	12.79	66.45	5.6	33.52	7.9	25.3	5.06
I5	07 May 2024	8	11.44	70.92	4.9	33.61	7.8	25.6	4.65

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I5	07 May 2024	9	11.33	76.09	4.5	33.62	7.8	25.6	4.37
I5	07 May 2024	10	11.28	79.27	4.4	33.62	7.8	25.6	3.98
I5	07 May 2024	11	11.26	79.72	4.3	33.62	7.8	25.7	3.83
I5	07 May 2024	12	11.26	78.69	4.3	33.62	7.8	25.7	3.62
I5	07 May 2024	13	11.26	78.59	4.2	33.63	7.8	25.7	3.60
I5	07 May 2024	14	11.26	75.49	4.2	33.63	7.8	25.7	3.57
I1	07 May 2024	1	16.96	95.72	8.4	33.40	8.2	24.3	0.18
I1	07 May 2024	2	16.95	95.75	8.4	33.40	8.2	24.3	0.18
I1	07 May 2024	3	16.93	95.76	8.4	33.40	8.2	24.3	0.20
I1	07 May 2024	4	16.90	95.75	8.4	33.40	8.2	24.3	0.21
I1	07 May 2024	5	16.88	95.50	8.4	33.40	8.2	24.3	0.23
I1	07 May 2024	6	16.88	95.44	8.4	33.40	8.2	24.3	0.24
I1	07 May 2024	7	16.81	95.47	8.4	33.39	8.2	24.3	0.27
I1	07 May 2024	8	16.55	95.36	8.5	33.38	8.2	24.4	0.41
I1	07 May 2024	9	16.14	94.92	8.7	33.38	8.2	24.5	0.40
I1	07 May 2024	10	15.99	94.17	8.8	33.37	8.2	24.5	0.56
I1	07 May 2024	11	15.56	93.73	8.8	33.37	8.2	24.6	0.70
I1	07 May 2024	12	15.04	92.68	9.0	33.37	8.2	24.7	1.31
I1	07 May 2024	13	14.71	90.84	9.1	33.37	8.2	24.8	1.94
I1	07 May 2024	14	14.26	88.62	9.1	33.37	8.2	24.9	2.98
I1	07 May 2024	15	13.66	85.92	8.4	33.39	8.2	25.0	4.92
I1	07 May 2024	16	12.33	87.04	7.2	33.45	8.0	25.3	5.44
I1	07 May 2024	17	12.24	89.39	6.5	33.44	8.0	25.3	5.60
I1	07 May 2024	18	12.08	90.02	6.2	33.46	7.9	25.4	4.18
I1	07 May 2024	19	11.94	92.15	5.9	33.48	7.9	25.4	3.02
I1	07 May 2024	20	11.86	94.50	5.7	33.49	7.9	25.4	2.49
I1	07 May 2024	21	11.81	95.18	5.6	33.50	7.9	25.5	1.75
I1	07 May 2024	22	11.80	95.35	5.5	33.51	7.9	25.5	1.73
I1	07 May 2024	23	11.75	95.64	5.4	33.52	7.9	25.5	1.33
I1	07 May 2024	24	11.72	95.71	5.4	33.52	7.9	25.5	1.83
I1	07 May 2024	25	11.69	95.78	5.3	33.53	7.9	25.5	1.65
I1	07 May 2024	26	11.62	96.10	5.2	33.54	7.9	25.5	1.30
I1	07 May 2024	27	11.51	96.69	5.1	33.55	7.8	25.6	1.14
I1	07 May 2024	28	11.33	97.22	5.0	33.55	7.8	25.6	0.97
I1	07 May 2024	29	11.33	97.87	5.0	33.55	7.8	25.6	0.95
I1	07 May 2024	30	11.27	98.16	4.9	33.56	7.8	25.6	0.89
I1	07 May 2024	31	11.22	98.09	4.9	33.58	7.8	25.6	0.88
I1	07 May 2024	32	11.17	98.10	4.8	33.58	7.8	25.6	0.93
I1	07 May 2024	33	11.15	98.23	4.8	33.59	7.8	25.7	0.89
I1	07 May 2024	34	11.12	98.20	4.7	33.60	7.8	25.7	0.91
I1	07 May 2024	35	11.12	98.14	4.7	33.61	7.8	25.7	0.92
I1	07 May 2024	36	11.12	98.06	4.7	33.62	7.8	25.7	0.94
I1	07 May 2024	37	11.11	98.10	4.6	33.63	7.8	25.7	0.96
I1	07 May 2024	38	11.08	97.93	4.6	33.65	7.8	25.7	0.97
I1	07 May 2024	39	11.07	97.89	4.5	33.65	7.8	25.7	0.95
I1	07 May 2024	40	11.03	98.00	4.5	33.65	7.8	25.7	1.01
I1	07 May 2024	41	10.98	97.93	4.5	33.66	7.8	25.7	0.95
I1	07 May 2024	42	10.94	98.05	4.4	33.67	7.8	25.7	0.91
I1	07 May 2024	43	10.90	98.21	4.4	33.67	7.8	25.8	0.88
I1	07 May 2024	44	10.88	98.27	4.4	33.67	7.8	25.8	0.83
I1	07 May 2024	45	10.87	98.31	4.4	33.67	7.8	25.8	0.80
I1	07 May 2024	46	10.80	98.40	4.4	33.67	7.8	25.8	0.76
I1	07 May 2024	47	10.73	98.52	4.4	33.68	7.8	25.8	0.71
I1	07 May 2024	48	10.61	98.54	4.4	33.69	7.8	25.8	0.66
I1	07 May 2024	49	10.58	98.75	4.4	33.70	7.8	25.8	0.60
I1	07 May 2024	50	10.64	98.89	4.2	33.73	7.8	25.8	0.61
I1	07 May 2024	51	10.66	98.26	4.1	33.73	7.8	25.8	0.66
I1	07 May 2024	52	10.66	98.09	4.1	33.73	7.8	25.9	0.85
I1	07 May 2024	53	10.59	97.84	4.0	33.76	7.8	25.9	0.67
I1	07 May 2024	54	10.51	97.83	3.9	33.78	7.7	25.9	0.62

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I1	07 May 2024	55	10.49	97.79	3.8	33.78	7.7	25.9	0.59
I1	07 May 2024	56	10.46	97.78	3.8	33.79	7.7	25.9	0.55
I1	07 May 2024	57	10.42	97.70	3.8	33.80	7.7	25.9	0.53
I1	07 May 2024	58	10.39	97.74	3.8	33.80	7.7	26.0	0.50
I1	07 May 2024	59	10.33	97.85	3.8	33.82	7.7	26.0	0.45
I1	07 May 2024	60	10.24	97.86	3.7	33.84	7.7	26.0	0.39
I2	07 May 2024	1	16.60	90.70	8.8	33.42	8.2	24.4	0.39
I2	07 May 2024	2	16.58	90.39	8.8	33.42	8.2	24.4	0.41
I2	07 May 2024	3	16.44	90.40	8.8	33.42	8.2	24.4	0.48
I2	07 May 2024	4	16.39	90.13	8.8	33.42	8.2	24.4	0.53
I2	07 May 2024	5	16.27	90.34	8.8	33.41	8.2	24.5	0.63
I2	07 May 2024	6	16.14	90.68	8.8	33.41	8.2	24.5	0.71
I2	07 May 2024	7	15.77	91.00	8.7	33.40	8.2	24.6	0.84
I2	07 May 2024	8	15.50	91.14	8.7	33.40	8.2	24.6	1.11
I2	07 May 2024	9	15.03	90.78	8.7	33.39	8.2	24.7	1.31
I2	07 May 2024	10	14.66	90.82	8.6	33.40	8.2	24.8	1.80
I2	07 May 2024	11	14.52	90.85	8.5	33.40	8.1	24.8	1.84
I2	07 May 2024	12	14.26	90.89	8.3	33.40	8.1	24.9	2.00
I2	07 May 2024	13	14.01	90.62	8.2	33.40	8.1	25.0	2.16
I2	07 May 2024	14	13.75	90.43	8.1	33.41	8.1	25.0	2.43
I2	07 May 2024	15	13.57	90.51	7.7	33.42	8.1	25.1	2.29
I2	07 May 2024	16	12.59	90.87	6.8	33.45	8.1	25.3	2.26
I2	07 May 2024	17	11.69	92.23	5.9	33.54	7.9	25.5	2.12
I2	07 May 2024	18	11.62	94.09	5.4	33.54	7.9	25.5	1.96
I2	07 May 2024	19	11.57	94.89	5.2	33.55	7.9	25.5	1.97
I2	07 May 2024	20	11.53	95.24	5.1	33.55	7.8	25.6	1.98
I2	07 May 2024	21	11.41	95.52	5.0	33.57	7.8	25.6	2.06
I2	07 May 2024	22	11.32	95.73	4.9	33.58	7.8	25.6	1.86
I2	07 May 2024	23	11.23	96.02	4.8	33.59	7.8	25.6	1.70
I2	07 May 2024	24	11.12	96.18	4.7	33.62	7.8	25.7	1.55
I2	07 May 2024	25	11.06	96.81	4.6	33.63	7.8	25.7	1.58
I2	07 May 2024	26	11.03	97.31	4.6	33.64	7.8	25.7	1.29
I2	07 May 2024	27	10.98	97.54	4.5	33.65	7.8	25.7	1.20
I2	07 May 2024	28	10.87	97.55	4.4	33.68	7.8	25.8	1.14
I2	07 May 2024	29	10.84	97.28	4.2	33.70	7.8	25.8	1.12
I2	07 May 2024	30	10.85	97.10	4.2	33.70	7.8	25.8	1.07
I2	07 May 2024	31	10.84	96.94	4.2	33.70	7.8	25.8	1.03
I2	07 May 2024	32	10.83	96.87	4.1	33.70	7.8	25.8	1.02
I6	07 May 2024	1	16.62	75.27	8.9	33.36	8.2	24.3	0.87
I6	07 May 2024	2	16.62	78.53	8.8	33.45	8.2	24.4	0.89
I6	07 May 2024	3	16.47	80.69	8.8	33.45	8.2	24.4	1.02
I6	07 May 2024	4	16.40	83.56	8.9	33.45	8.2	24.5	1.29
I6	07 May 2024	5	16.30	83.86	8.8	33.45	8.2	24.5	1.49
I6	07 May 2024	6	16.15	84.42	8.8	33.45	8.2	24.5	1.94
I6	07 May 2024	7	16.06	85.04	8.8	33.44	8.2	24.5	2.54
I6	07 May 2024	8	15.96	85.93	8.8	33.44	8.2	24.6	2.63
I6	07 May 2024	9	15.70	86.17	8.7	33.43	8.2	24.6	2.96
I6	07 May 2024	10	15.45	86.32	8.6	33.43	8.2	24.7	3.21
I6	07 May 2024	11	15.19	86.76	8.4	33.44	8.2	24.7	3.55
I6	07 May 2024	12	14.68	86.93	8.2	33.44	8.1	24.8	3.53
I6	07 May 2024	13	14.51	86.76	8.1	33.44	8.1	24.9	3.76
I6	07 May 2024	14	14.18	86.57	7.9	33.46	8.1	25.0	3.99
I6	07 May 2024	15	14.08	86.54	7.8	33.46	8.1	25.0	4.02
I6	07 May 2024	16	13.72	86.59	7.5	33.48	8.1	25.1	4.28
I6	07 May 2024	17	13.15	87.17	6.8	33.50	8.0	25.2	4.30
I6	07 May 2024	18	11.90	88.85	5.9	33.55	7.9	25.5	3.70
I6	07 May 2024	19	11.59	90.83	5.3	33.57	7.9	25.6	2.88
I6	07 May 2024	20	11.19	89.92	4.8	33.62	7.8	25.7	2.45
I6	07 May 2024	21	11.00	90.86	4.5	33.65	7.8	25.7	2.12

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I6	07 May 2024	22	10.99	91.69	4.4	33.65	7.8	25.7	1.89
I6	07 May 2024	23	11.00	91.94	4.3	33.65	7.8	25.7	1.86
I6	07 May 2024	24	10.98	91.95	4.3	33.65	7.8	25.7	1.71
I6	07 May 2024	25	10.99	91.85	4.3	33.66	7.8	25.7	1.73
I6	07 May 2024	26	10.99	91.76	4.2	33.66	7.8	25.7	1.68
I9	08 May 2024	1	17.20	85.79	8.8	33.47	8.2	24.3	1.02
I9	08 May 2024	2	17.20	85.80	8.8	33.47	8.2	24.3	1.00
I9	08 May 2024	3	17.19	86.34	8.8	33.47	8.2	24.3	1.09
I9	08 May 2024	4	17.19	86.56	8.8	33.47	8.2	24.3	1.18
I9	08 May 2024	5	17.11	86.52	8.8	33.46	8.2	24.3	1.34
I9	08 May 2024	6	16.95	87.00	8.7	33.46	8.2	24.3	1.58
I9	08 May 2024	7	16.02	86.68	8.7	33.45	8.2	24.5	1.89
I9	08 May 2024	8	14.83	85.26	8.9	33.45	8.2	24.8	2.71
I9	08 May 2024	9	14.73	83.98	8.7	33.43	8.2	24.8	3.64
I9	08 May 2024	10	14.12	81.10	8.4	33.44	8.1	25.0	5.63
I9	08 May 2024	11	14.02	81.06	8.1	33.44	8.1	25.0	6.78
I9	08 May 2024	12	13.84	81.78	7.8	33.44	8.1	25.0	6.43
I9	08 May 2024	13	13.56	83.22	7.6	33.45	8.1	25.1	6.42
I9	08 May 2024	14	13.33	85.23	7.1	33.47	8.1	25.1	5.46
I9	08 May 2024	15	12.62	86.73	6.5	33.51	8.0	25.3	4.55
I9	08 May 2024	16	11.92	89.55	5.8	33.56	7.9	25.5	3.34
I9	08 May 2024	17	11.69	91.77	5.4	33.57	7.9	25.5	2.66
I9	08 May 2024	18	11.59	91.87	5.0	33.59	7.8	25.6	2.20
I9	08 May 2024	19	11.37	90.75	4.8	33.60	7.8	25.6	2.26
I9	08 May 2024	20	11.25	89.24	4.6	33.62	7.8	25.7	2.31
I9	08 May 2024	21	11.23	89.65	4.4	33.63	7.8	25.7	2.13
I9	08 May 2024	22	10.97	91.08	4.3	33.67	7.8	25.7	1.86
I9	08 May 2024	23	10.89	91.62	4.2	33.68	7.8	25.8	1.57
I9	08 May 2024	24	10.87	91.84	4.1	33.68	7.8	25.8	1.49
I9	08 May 2024	25	10.85	92.18	4.1	33.68	7.8	25.8	1.41
I9	08 May 2024	26	10.82	93.06	4.1	33.69	7.8	25.8	1.35
I9	08 May 2024	27	10.82	93.55	4.0	33.69	7.8	25.8	1.28
I9	08 May 2024	28	10.81	93.46	4.0	33.70	7.8	25.8	1.26
I9	08 May 2024	29	10.81	92.55	4.0	33.70	7.8	25.8	1.26
I11	07 May 2024	1	17.48	79.21	8.8	33.45	8.2	24.2	0.91
I11	07 May 2024	2	17.48	79.18	8.8	33.45	8.2	24.2	0.95
I11	07 May 2024	3	17.42	79.18	8.8	33.45	8.2	24.2	1.07
I11	07 May 2024	4	17.19	78.90	8.8	33.45	8.2	24.3	1.42
I11	07 May 2024	5	16.77	78.76	8.8	33.45	8.2	24.4	2.10
I11	07 May 2024	6	16.34	78.16	8.7	33.46	8.2	24.5	3.08
I11	07 May 2024	7	16.23	77.22	8.6	33.45	8.2	24.5	4.01
I11	07 May 2024	8	15.77	76.81	8.4	33.46	8.2	24.6	5.09
I11	07 May 2024	9	15.12	76.89	7.8	33.45	8.2	24.8	5.87
I11	07 May 2024	10	13.21	80.61	7.0	33.50	8.1	25.2	5.46
I11	07 May 2024	11	12.08	80.11	5.8	33.56	7.9	25.5	5.22
I11	07 May 2024	12	11.44	78.61	4.8	33.60	7.8	25.6	3.76
I11	07 May 2024	13	11.38	80.08	4.4	33.59	7.8	25.6	2.61
I10	08 May 2024	1	17.16	85.02	8.7	33.47	8.2	24.3	0.72
I10	08 May 2024	2	17.16	85.04	8.7	33.47	8.2	24.3	0.72
I10	08 May 2024	3	17.16	84.97	8.7	33.47	8.2	24.3	0.71
I10	08 May 2024	4	17.14	84.92	8.8	33.47	8.2	24.3	0.81
I10	08 May 2024	5	17.12	85.03	8.7	33.47	8.2	24.3	0.89
I10	08 May 2024	6	17.07	84.99	8.7	33.47	8.2	24.3	1.09
I10	08 May 2024	7	16.17	85.20	8.6	33.50	8.2	24.6	1.36
I10	08 May 2024	8	15.26	82.91	8.5	33.48	8.2	24.7	2.26
I10	08 May 2024	9	15.13	83.06	8.3	33.47	8.2	24.8	3.00
I10	08 May 2024	10	15.01	83.12	8.3	33.47	8.2	24.8	3.48
I10	08 May 2024	11	14.96	83.24	8.3	33.46	8.2	24.8	4.40

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I10	08 May 2024	12	14.94	83.51	8.1	33.47	8.2	24.8	4.75
I10	08 May 2024	13	14.22	83.72	7.2	33.51	8.1	25.0	4.45
I10	08 May 2024	14	12.64	84.85	6.2	33.58	8.0	25.4	3.46
I10	08 May 2024	15	12.53	86.78	5.6	33.54	7.9	25.4	3.06
I10	08 May 2024	16	11.57	86.37	5.1	33.61	7.9	25.6	2.75
I10	08 May 2024	17	11.31	82.59	4.6	33.64	7.8	25.7	2.29
I10	08 May 2024	18	11.19	83.05	4.3	33.64	7.8	25.7	2.13
I10	08 May 2024	19	11.16	80.37	4.2	33.65	7.8	25.7	2.04
I7	07 May 2024	1	16.59	88.25	8.7	33.39	8.2	24.4	0.28
I7	07 May 2024	2	16.58	88.38	8.7	33.41	8.2	24.4	0.29
I7	07 May 2024	3	16.55	91.60	8.8	33.41	8.2	24.4	0.34
I7	07 May 2024	4	16.54	91.91	8.8	33.41	8.2	24.4	0.40
I7	07 May 2024	5	16.54	91.56	8.8	33.41	8.2	24.4	0.50
I7	07 May 2024	6	16.53	91.56	8.8	33.41	8.2	24.4	0.57
I7	07 May 2024	7	16.53	91.59	8.8	33.41	8.2	24.4	0.70
I7	07 May 2024	8	16.52	91.55	8.8	33.41	8.2	24.4	0.68
I7	07 May 2024	9	16.52	91.72	8.8	33.41	8.2	24.4	0.74
I7	07 May 2024	10	16.49	91.70	8.8	33.41	8.2	24.4	0.78
I7	07 May 2024	11	16.43	91.69	8.7	33.41	8.2	24.4	0.88
I7	07 May 2024	12	15.63	91.84	8.7	33.40	8.2	24.6	1.35
I7	07 May 2024	13	14.86	89.87	8.6	33.38	8.2	24.8	3.04
I7	07 May 2024	14	13.69	87.02	8.2	33.37	8.1	25.0	4.99
I7	07 May 2024	15	12.79	84.90	7.5	33.39	8.1	25.2	6.07
I7	07 May 2024	16	12.06	86.39	6.6	33.46	8.0	25.4	5.10
I7	07 May 2024	17	11.87	93.26	5.8	33.48	7.9	25.4	3.04
I7	07 May 2024	18	11.63	95.44	5.4	33.51	7.9	25.5	2.31
I7	07 May 2024	19	11.60	95.86	5.2	33.52	7.8	25.5	1.61
I7	07 May 2024	20	11.52	96.02	5.1	33.53	7.8	25.5	1.58
I7	07 May 2024	21	11.49	96.25	5.1	33.54	7.8	25.6	1.78
I7	07 May 2024	22	11.45	96.31	5.0	33.55	7.8	25.6	1.38
I7	07 May 2024	23	11.46	96.52	5.0	33.56	7.8	25.6	1.40
I7	07 May 2024	24	11.43	96.71	4.9	33.56	7.8	25.6	1.54
I7	07 May 2024	25	11.40	96.73	4.9	33.57	7.8	25.6	1.28
I7	07 May 2024	26	11.41	96.84	4.9	33.57	7.8	25.6	1.38
I7	07 May 2024	27	11.37	96.86	4.8	33.58	7.8	25.6	1.40
I7	07 May 2024	28	11.30	96.94	4.8	33.59	7.8	25.6	1.46
I7	07 May 2024	29	11.20	97.09	4.7	33.61	7.8	25.7	1.23
I7	07 May 2024	30	11.12	97.41	4.6	33.62	7.8	25.7	1.15
I7	07 May 2024	31	11.01	97.73	4.5	33.64	7.8	25.7	1.03
I7	07 May 2024	32	10.98	97.81	4.5	33.65	7.8	25.7	0.94
I7	07 May 2024	33	10.97	97.94	4.4	33.65	7.8	25.7	0.92
I7	07 May 2024	34	10.94	98.00	4.4	33.66	7.8	25.7	0.86
I7	07 May 2024	35	10.93	98.06	4.4	33.66	7.8	25.7	0.83
I7	07 May 2024	36	10.91	98.20	4.3	33.67	7.8	25.8	0.79
I7	07 May 2024	37	10.91	98.30	4.3	33.67	7.8	25.8	0.79
I7	07 May 2024	38	10.90	98.32	4.3	33.67	7.8	25.8	0.75
I7	07 May 2024	39	10.88	98.35	4.3	33.67	7.8	25.8	0.72
I7	07 May 2024	40	10.85	98.35	4.3	33.68	7.8	25.8	0.68
I7	07 May 2024	41	10.80	98.54	4.2	33.69	7.8	25.8	0.63
I7	07 May 2024	42	10.75	98.65	4.2	33.70	7.8	25.8	0.59
I7	07 May 2024	43	10.73	98.73	4.2	33.70	7.8	25.8	0.57
I7	07 May 2024	44	10.70	98.73	4.2	33.71	7.8	25.8	0.57
I7	07 May 2024	45	10.67	98.72	4.2	33.72	7.8	25.8	0.58
I7	07 May 2024	46	10.62	98.73	4.1	33.72	7.8	25.8	0.70
I7	07 May 2024	47	10.59	98.72	4.1	33.73	7.8	25.9	0.65
I7	07 May 2024	48	10.56	98.73	4.1	33.73	7.8	25.9	0.58
I7	07 May 2024	49	10.48	98.75	4.1	33.75	7.8	25.9	0.52
I7	07 May 2024	50	10.32	98.86	4.0	33.79	7.8	26.0	0.45
I7	07 May 2024	51	10.30	98.79	4.0	33.79	7.8	26.0	0.40
I7	07 May 2024	52	10.35	98.72	4.0	33.78	7.8	25.9	0.38

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I8	08 May 2024	1	17.12	85.68	9.0	33.46	8.2	24.3	0.86
I8	08 May 2024	2	17.11	85.69	9.0	33.46	8.2	24.3	0.94
I8	08 May 2024	3	17.11	85.97	9.0	33.46	8.2	24.3	1.05
I8	08 May 2024	4	17.10	85.84	9.0	33.46	8.2	24.3	1.21
I8	08 May 2024	5	17.09	85.87	9.0	33.46	8.2	24.3	1.34
I8	08 May 2024	6	16.98	85.87	9.0	33.46	8.2	24.3	1.46
I8	08 May 2024	7	16.76	85.96	8.9	33.45	8.2	24.4	1.63
I8	08 May 2024	8	15.77	85.10	9.1	33.43	8.2	24.6	2.45
I8	08 May 2024	9	15.63	83.56	8.8	33.43	8.2	24.6	2.87
I8	08 May 2024	10	14.59	82.65	8.9	33.42	8.2	24.8	4.19
I8	08 May 2024	11	14.24	83.12	8.7	33.42	8.1	24.9	5.09
I8	08 May 2024	12	13.64	80.63	8.4	33.42	8.1	25.0	5.97
I8	08 May 2024	13	13.01	80.77	8.1	33.42	8.1	25.2	7.98
I8	08 May 2024	14	12.84	80.82	7.7	33.42	8.1	25.2	9.15
I8	08 May 2024	15	12.52	82.30	7.2	33.43	8.0	25.3	10.47
I8	08 May 2024	16	12.38	84.03	6.7	33.46	8.0	25.3	8.28
I8	08 May 2024	17	12.36	86.16	6.5	33.47	8.0	25.3	6.14
I8	08 May 2024	18	12.26	88.72	6.2	33.48	7.9	25.4	5.34
I8	08 May 2024	19	12.11	89.98	5.9	33.50	7.9	25.4	4.62
I8	08 May 2024	20	11.93	92.09	5.6	33.52	7.9	25.5	3.04
I8	08 May 2024	21	11.57	93.90	5.3	33.55	7.9	25.5	2.43
I8	08 May 2024	22	11.39	95.38	5.0	33.57	7.8	25.6	2.01
I8	08 May 2024	23	11.39	96.44	4.9	33.57	7.8	25.6	1.71
I8	08 May 2024	24	11.32	96.39	4.9	33.58	7.8	25.6	1.53
I8	08 May 2024	25	11.27	96.59	4.8	33.59	7.8	25.6	1.48
I8	08 May 2024	26	11.24	96.77	4.8	33.60	7.8	25.6	1.40
I8	08 May 2024	27	11.18	96.87	4.7	33.61	7.8	25.7	1.52
I8	08 May 2024	28	11.05	96.82	4.6	33.64	7.8	25.7	1.34
I8	08 May 2024	29	10.99	96.40	4.5	33.65	7.8	25.7	1.19
I8	08 May 2024	30	10.98	96.71	4.4	33.65	7.8	25.7	1.19
I8	08 May 2024	31	10.98	96.77	4.4	33.65	7.8	25.7	1.32
I8	08 May 2024	32	10.92	97.06	4.3	33.67	7.8	25.8	1.13
I8	08 May 2024	33	10.69	97.12	4.1	33.72	7.8	25.8	1.03
I8	08 May 2024	34	10.65	96.84	4.0	33.73	7.8	25.9	0.96
I8	08 May 2024	35	10.65	96.54	3.9	33.73	7.7	25.9	0.93
I8	08 May 2024	36	10.65	96.43	3.9	33.73	7.7	25.9	0.88
I12	08 May 2024	1	17.24	84.60	9.0	33.46	8.2	24.3	0.81
I12	08 May 2024	2	17.25	85.15	9.0	33.46	8.2	24.3	0.81
I12	08 May 2024	3	17.25	85.25	9.0	33.46	8.2	24.3	0.78
I12	08 May 2024	4	17.16	85.09	9.0	33.46	8.2	24.3	0.97
I12	08 May 2024	5	16.87	85.23	8.6	33.46	8.2	24.4	1.23
I12	08 May 2024	6	14.63	84.55	8.5	33.47	8.2	24.9	2.07
I12	08 May 2024	7	14.20	81.79	8.2	33.45	8.1	24.9	3.96
I12	08 May 2024	8	13.59	81.88	7.8	33.46	8.1	25.1	5.02
I12	08 May 2024	9	13.10	83.01	7.2	33.47	8.0	25.2	5.03
I12	08 May 2024	10	12.86	85.41	6.9	33.47	8.0	25.2	4.69
I12	08 May 2024	11	12.75	87.40	6.5	33.48	8.0	25.3	4.42
I12	08 May 2024	12	11.96	88.30	5.8	33.44	8.0	25.4	3.74
I12	08 May 2024	13	11.22	90.78	4.9	33.43	7.8	25.5	2.25
I12	08 May 2024	14	11.16	93.21	4.6	33.45	7.8	25.5	1.57
I12	08 May 2024	15	11.14	93.86	4.5	33.52	7.8	25.6	1.42
I12	08 May 2024	16	11.20	94.39	4.6	33.58	7.8	25.6	1.51
I12	08 May 2024	17	11.21	95.01	4.6	33.59	7.8	25.6	1.52
I12	08 May 2024	18	11.21	95.24	4.7	33.61	7.8	25.7	1.51
I12	08 May 2024	19	11.22	95.23	4.7	33.61	7.8	25.7	1.64
I12	08 May 2024	20	11.21	95.35	4.7	33.62	7.8	25.7	1.65
I12	08 May 2024	21	11.17	95.56	4.6	33.63	7.8	25.7	1.54
I12	08 May 2024	22	11.16	95.55	4.6	33.63	7.8	25.7	1.55
I12	08 May 2024	23	11.08	95.32	4.4	33.65	7.8	25.7	1.51

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I12	08 May 2024	24	10.90	95.00	4.3	33.68	7.8	25.8	1.39
I12	08 May 2024	25	10.82	94.04	4.1	33.70	7.8	25.8	1.31
I12	08 May 2024	26	10.85	93.77	4.0	33.69	7.8	25.8	1.24
I12	08 May 2024	27	10.82	93.63	4.0	33.70	7.8	25.8	1.25
I12	08 May 2024	28	10.81	93.48	4.0	33.70	7.8	25.8	1.25
I18	08 May 2024	1	17.29	84.01	8.8	33.47	8.3	24.3	0.61
I18	08 May 2024	2	17.28	85.35	8.8	33.47	8.3	24.3	0.63
I18	08 May 2024	3	17.26	85.26	8.8	33.47	8.3	24.3	0.69
I18	08 May 2024	4	17.10	85.10	8.8	33.47	8.2	24.3	0.77
I18	08 May 2024	5	16.56	83.36	8.7	33.49	8.2	24.5	1.12
I18	08 May 2024	6	15.53	80.78	8.5	33.49	8.2	24.7	1.91
I18	08 May 2024	7	14.76	80.93	8.3	33.48	8.2	24.9	2.98
I18	08 May 2024	8	14.72	82.41	8.2	33.47	8.2	24.9	3.52
I18	08 May 2024	9	14.58	83.18	8.0	33.48	8.1	24.9	3.87
I18	08 May 2024	10	14.47	83.77	7.7	33.49	8.1	24.9	4.15
I18	08 May 2024	11	14.32	84.06	7.4	33.50	8.1	25.0	4.20
I18	08 May 2024	12	13.92	85.24	7.1	33.52	8.1	25.1	3.74
I18	08 May 2024	13	13.35	87.04	6.3	33.56	8.0	25.2	3.52
I18	08 May 2024	14	11.37	86.39	5.3	33.66	7.9	25.7	3.01
I18	08 May 2024	15	11.27	83.88	4.8	33.64	7.8	25.7	2.55
I18	08 May 2024	16	11.28	83.39	4.5	33.64	7.8	25.7	2.26
I18	08 May 2024	17	11.23	83.48	4.4	33.64	7.8	25.7	2.19
I18	08 May 2024	18	11.17	84.47	4.3	33.64	7.8	25.7	2.09
I18	08 May 2024	19	11.14	85.38	4.3	33.65	7.8	25.7	1.88
I13	08 May 2024	1	17.16	77.71	8.9	33.43	8.2	24.3	0.81
I13	08 May 2024	2	17.14	82.63	9.0	33.46	8.2	24.3	0.92
I13	08 May 2024	3	17.15	85.42	9.0	33.46	8.2	24.3	0.92
I13	08 May 2024	4	17.05	85.40	8.9	33.46	8.2	24.3	1.06
I13	08 May 2024	5	16.63	85.41	8.7	33.45	8.2	24.4	1.30
I13	08 May 2024	6	15.54	84.65	8.6	33.45	8.2	24.7	2.14
I13	08 May 2024	7	14.85	83.09	8.1	33.44	8.2	24.8	2.92
I13	08 May 2024	8	12.96	82.93	7.5	33.44	8.1	25.2	3.72
I13	08 May 2024	9	12.65	86.76	6.9	33.45	8.0	25.3	4.10
I13	08 May 2024	10	12.17	88.75	6.4	33.47	8.0	25.4	4.21
I13	08 May 2024	11	12.06	89.53	6.1	33.48	7.9	25.4	4.47
I13	08 May 2024	12	11.96	90.12	5.9	33.48	7.9	25.4	4.56
I13	08 May 2024	13	11.90	90.51	5.7	33.50	7.9	25.4	4.26
I13	08 May 2024	14	11.90	91.73	5.6	33.50	7.9	25.4	4.42
I13	08 May 2024	15	11.71	92.01	5.4	33.52	7.9	25.5	3.68
I13	08 May 2024	16	11.66	93.88	5.3	33.53	7.9	25.5	2.76
I13	08 May 2024	17	11.57	95.14	5.1	33.54	7.8	25.5	2.63
I13	08 May 2024	18	11.42	96.07	5.0	33.56	7.8	25.6	2.06
I13	08 May 2024	19	11.33	96.22	4.9	33.57	7.8	25.6	1.75
I13	08 May 2024	20	11.23	95.89	4.8	33.59	7.8	25.6	1.57
I13	08 May 2024	21	11.20	96.68	4.8	33.60	7.8	25.6	1.46
I13	08 May 2024	22	11.20	96.94	4.7	33.60	7.8	25.6	1.36
I13	08 May 2024	23	11.14	97.23	4.7	33.61	7.8	25.7	1.34
I13	08 May 2024	24	11.10	97.45	4.6	33.62	7.8	25.7	1.17
I13	08 May 2024	25	11.08	97.48	4.6	33.63	7.8	25.7	1.25
I13	08 May 2024	26	11.07	97.37	4.6	33.63	7.8	25.7	1.23
I13	08 May 2024	27	11.06	97.42	4.5	33.63	7.8	25.7	1.11
I13	08 May 2024	28	10.97	97.64	4.4	33.65	7.8	25.7	1.07
I13	08 May 2024	29	10.88	97.67	4.4	33.67	7.8	25.8	1.00
I13	08 May 2024	30	10.76	97.84	4.3	33.70	7.8	25.8	0.89
I13	08 May 2024	31	10.63	97.93	4.2	33.73	7.8	25.8	0.82
I13	08 May 2024	32	10.59	97.76	4.0	33.74	7.8	25.9	0.76
I13	08 May 2024	33	10.56	97.69	4.0	33.75	7.8	25.9	0.73
I13	08 May 2024	34	10.55	97.74	3.9	33.75	7.8	25.9	0.79
I13	08 May 2024	35	10.53	97.65	3.9	33.76	7.8	25.9	0.68

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I13	08 May 2024	36	10.52	97.55	3.9	33.76	7.7	25.9	0.69
I13	08 May 2024	37	10.52	97.49	3.8	33.76	7.7	25.9	0.66
I13	08 May 2024	38	10.53	97.44	3.8	33.76	7.7	25.9	0.67
I15	08 May 2024	1	17.29	84.57	9.0	33.47	8.3	24.3	0.60
I15	08 May 2024	2	17.29	85.42	9.0	33.47	8.3	24.3	0.62
I15	08 May 2024	3	17.25	85.33	9.0	33.47	8.3	24.3	0.69
I15	08 May 2024	4	17.15	85.30	8.9	33.47	8.3	24.3	0.75
I15	08 May 2024	5	16.93	85.14	8.7	33.46	8.2	24.3	0.89
I15	08 May 2024	6	15.27	83.82	8.6	33.48	8.2	24.7	1.46
I15	08 May 2024	7	13.82	81.43	8.1	33.47	8.1	25.0	2.67
I15	08 May 2024	8	13.46	82.39	7.6	33.46	8.1	25.1	3.72
I15	08 May 2024	9	13.16	83.95	7.3	33.47	8.1	25.2	4.20
I15	08 May 2024	10	13.03	85.93	6.9	33.48	8.0	25.2	4.17
I15	08 May 2024	11	12.44	87.01	6.3	33.49	8.0	25.3	3.97
I15	08 May 2024	12	11.98	90.01	5.7	33.51	7.9	25.4	2.60
I15	08 May 2024	13	11.49	93.07	5.3	33.56	7.9	25.6	2.44
I15	08 May 2024	14	11.35	95.37	5.0	33.57	7.8	25.6	1.80
I15	08 May 2024	15	11.39	95.28	4.9	33.57	7.8	25.6	1.60
I15	08 May 2024	16	11.22	96.53	4.8	33.59	7.8	25.6	1.45
I15	08 May 2024	17	11.21	96.80	4.8	33.59	7.8	25.6	1.36
I15	08 May 2024	18	11.19	96.81	4.8	33.60	7.8	25.6	1.39
I15	08 May 2024	19	11.18	96.76	4.7	33.60	7.8	25.7	1.29
I15	08 May 2024	20	11.16	96.74	4.7	33.61	7.8	25.7	1.30
I15	08 May 2024	21	11.16	96.82	4.7	33.62	7.8	25.7	1.31
I15	08 May 2024	22	11.12	96.66	4.6	33.62	7.8	25.7	1.26
I15	08 May 2024	23	11.12	96.47	4.6	33.63	7.8	25.7	1.25
I15	08 May 2024	24	11.07	96.53	4.5	33.64	7.8	25.7	1.25
I15	08 May 2024	25	10.94	96.42	4.4	33.67	7.8	25.7	1.19
I15	08 May 2024	26	10.92	96.01	4.3	33.67	7.8	25.8	1.17
I15	08 May 2024	27	10.84	95.88	4.2	33.69	7.8	25.8	1.15
I15	08 May 2024	28	10.76	96.22	4.1	33.71	7.8	25.8	1.22
I15	08 May 2024	29	10.72	95.39	4.0	33.72	7.8	25.8	1.16
I15	08 May 2024	30	10.73	94.41	3.9	33.72	7.8	25.8	1.09
I15	08 May 2024	31	10.73	93.77	3.9	33.72	7.8	25.8	1.10
I16	08 May 2024	1	17.32	85.01	9.0	33.46	8.2	24.3	0.67
I16	08 May 2024	2	17.30	85.02	9.0	33.46	8.2	24.3	0.72
I16	08 May 2024	3	17.29	85.06	9.0	33.46	8.2	24.3	0.85
I16	08 May 2024	4	17.12	85.23	9.0	33.46	8.2	24.3	1.03
I16	08 May 2024	5	16.91	85.28	8.7	33.46	8.2	24.4	1.23
I16	08 May 2024	6	14.66	84.52	8.6	33.45	8.2	24.9	2.12
I16	08 May 2024	7	14.50	82.02	8.3	33.45	8.1	24.9	3.25
I16	08 May 2024	8	13.84	81.40	7.9	33.45	8.1	25.0	4.03
I16	08 May 2024	9	13.39	82.43	7.5	33.47	8.1	25.1	4.98
I16	08 May 2024	10	13.28	85.70	7.1	33.47	8.0	25.1	4.88
I16	08 May 2024	11	12.71	86.51	6.5	33.47	8.0	25.3	4.37
I16	08 May 2024	12	12.02	88.56	6.0	33.51	7.9	25.4	3.43
I16	08 May 2024	13	11.96	90.96	5.5	33.49	7.9	25.4	2.83
I16	08 May 2024	14	11.31	93.04	5.0	33.53	7.8	25.6	2.05
I16	08 May 2024	15	11.32	93.94	4.8	33.54	7.8	25.6	1.76
I16	08 May 2024	16	11.26	94.08	4.8	33.57	7.8	25.6	1.68
I16	08 May 2024	17	11.27	95.17	4.8	33.58	7.8	25.6	1.56
I16	08 May 2024	18	11.24	95.13	4.8	33.58	7.8	25.6	1.64
I16	08 May 2024	19	11.19	95.49	4.7	33.60	7.8	25.6	1.63
I16	08 May 2024	20	11.16	95.43	4.6	33.61	7.8	25.7	1.58
I16	08 May 2024	21	11.12	95.19	4.5	33.62	7.8	25.7	1.55
I16	08 May 2024	22	11.03	94.79	4.4	33.65	7.8	25.7	1.51
I16	08 May 2024	23	10.94	94.94	4.3	33.67	7.8	25.7	1.41
I16	08 May 2024	24	10.83	94.88	4.1	33.69	7.8	25.8	1.30
I16	08 May 2024	25	10.79	94.23	4.0	33.70	7.8	25.8	1.29

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I16	08 May 2024	26	10.79	93.01	4.0	33.70	7.8	25.8	1.20
I16	08 May 2024	27	10.79	92.38	3.9	33.70	7.8	25.8	1.19
I16	08 May 2024	28	10.78	92.21	3.9	33.70	7.8	25.8	1.18
I17	08 May 2024	1	17.31	84.31	8.9	33.47	8.3	24.3	0.56
I17	08 May 2024	2	17.31	84.44	8.9	33.47	8.3	24.3	0.56
I17	08 May 2024	3	17.24	84.78	8.9	33.47	8.3	24.3	0.58
I17	08 May 2024	4	16.94	84.94	8.9	33.48	8.2	24.4	0.67
I17	08 May 2024	5	16.03	85.13	8.7	33.51	8.2	24.6	0.82
I17	08 May 2024	6	14.58	84.60	8.5	33.51	8.2	24.9	1.30
I17	08 May 2024	7	13.98	83.00	8.0	33.49	8.1	25.0	2.11
I17	08 May 2024	8	13.60	83.02	7.6	33.49	8.1	25.1	2.76
I17	08 May 2024	9	13.21	84.03	7.2	33.50	8.1	25.2	3.06
I17	08 May 2024	10	12.99	85.56	6.8	33.49	8.0	25.2	3.41
I17	08 May 2024	11	12.71	87.13	6.4	33.52	8.0	25.3	3.02
I17	08 May 2024	12	12.47	88.11	6.1	33.55	8.0	25.4	2.76
I17	08 May 2024	13	12.24	88.94	5.8	33.55	7.9	25.4	2.44
I17	08 May 2024	14	11.65	90.56	5.4	33.60	7.9	25.6	2.18
I17	08 May 2024	15	11.37	91.13	5.0	33.61	7.8	25.6	1.79
I17	08 May 2024	16	11.25	92.42	4.8	33.61	7.8	25.6	1.74
I17	08 May 2024	17	11.23	93.82	4.7	33.62	7.8	25.7	1.69
I17	08 May 2024	18	11.19	94.30	4.6	33.63	7.8	25.7	1.87
I17	08 May 2024	19	11.08	94.96	4.5	33.64	7.8	25.7	1.84
I17	08 May 2024	20	11.02	94.42	4.4	33.66	7.8	25.7	1.62
I17	08 May 2024	21	10.96	93.74	4.3	33.67	7.8	25.7	1.40
I17	08 May 2024	22	10.94	92.59	4.2	33.67	7.8	25.8	1.35
I17	08 May 2024	23	10.94	91.88	4.1	33.68	7.8	25.8	1.31
I17	08 May 2024	24	10.94	91.58	4.1	33.67	7.8	25.8	1.33
I17	08 May 2024	25	10.94	91.27	4.1	33.68	7.8	25.8	1.31
I14	08 May 2024	1	17.28	83.79	8.9	33.46	8.2	24.3	0.52
I14	08 May 2024	2	17.27	85.33	8.9	33.46	8.2	24.3	0.55
I14	08 May 2024	3	17.28	85.44	8.9	33.46	8.2	24.3	0.58
I14	08 May 2024	4	16.99	85.47	8.9	33.46	8.2	24.3	0.67
I14	08 May 2024	5	16.22	84.03	8.5	33.47	8.2	24.5	0.87
I14	08 May 2024	6	14.19	81.26	8.1	33.47	8.1	25.0	2.15
I14	08 May 2024	7	13.69	82.51	7.7	33.47	8.1	25.1	2.68
I14	08 May 2024	8	13.61	83.94	7.5	33.47	8.1	25.1	2.78
I14	08 May 2024	9	13.12	85.15	7.0	33.49	8.0	25.2	3.19
I14	08 May 2024	10	12.78	87.75	6.6	33.50	8.0	25.3	2.86
I14	08 May 2024	11	12.30	89.50	6.1	33.52	8.0	25.4	2.50
I14	08 May 2024	12	12.14	90.74	5.7	33.53	7.9	25.4	2.28
I14	08 May 2024	13	11.59	92.81	5.3	33.56	7.9	25.5	2.00
I14	08 May 2024	14	11.47	94.78	5.0	33.58	7.8	25.6	1.82
I14	08 May 2024	15	11.34	95.16	4.9	33.59	7.8	25.6	1.64
I14	08 May 2024	16	11.31	95.59	4.8	33.59	7.8	25.6	1.64
I14	08 May 2024	17	11.25	95.92	4.8	33.59	7.8	25.6	1.57
I14	08 May 2024	18	11.20	96.28	4.8	33.60	7.8	25.6	1.64
I14	08 May 2024	19	11.19	96.46	4.7	33.61	7.8	25.7	1.49
I14	08 May 2024	20	11.14	96.49	4.6	33.63	7.8	25.7	1.44
I14	08 May 2024	21	11.10	95.94	4.5	33.64	7.8	25.7	1.52
I14	08 May 2024	22	11.06	95.46	4.4	33.65	7.8	25.7	1.38
I14	08 May 2024	23	10.88	95.78	4.3	33.68	7.8	25.8	1.54
I14	08 May 2024	24	10.79	95.38	4.1	33.70	7.8	25.8	1.32
I14	08 May 2024	25	10.77	93.82	4.0	33.71	7.8	25.8	1.27
I14	08 May 2024	26	10.77	92.80	3.9	33.71	7.8	25.8	1.21
I14	08 May 2024	27	10.77	91.52	3.9	33.71	7.8	25.8	1.25
I14	08 May 2024	28	10.78	89.84	3.9	33.71	7.8	25.8	1.22
I23	08 May 2024	1	17.16	82.94	8.9	33.47	8.2	24.3	0.67
I23	08 May 2024	2	17.17	83.74	8.9	33.47	8.2	24.3	0.68

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I23	08 May 2024	3	17.15	84.19	8.9	33.47	8.2	24.3	0.73
I23	08 May 2024	4	17.02	84.08	8.9	33.47	8.2	24.3	0.87
I23	08 May 2024	5	16.92	83.55	8.8	33.47	8.2	24.4	1.14
I23	08 May 2024	6	16.08	82.37	8.7	33.46	8.2	24.5	1.83
I23	08 May 2024	7	15.36	78.99	8.6	33.47	8.2	24.7	3.03
I23	08 May 2024	8	14.82	78.87	8.2	33.45	8.2	24.8	3.70
I23	08 May 2024	9	14.10	80.99	7.8	33.48	8.1	25.0	4.01
I23	08 May 2024	10	13.92	82.55	7.2	33.50	8.1	25.0	3.98
I23	08 May 2024	11	13.30	83.03	6.3	33.52	8.0	25.2	4.03
I23	08 May 2024	12	11.81	82.59	5.4	33.60	7.9	25.5	3.14
I23	08 May 2024	13	11.56	76.37	4.9	33.60	7.8	25.6	2.60
I23	08 May 2024	14	11.45	75.87	4.7	33.61	7.8	25.6	2.32
I23	08 May 2024	15	11.33	77.89	4.5	33.62	7.8	25.6	2.22
I23	08 May 2024	16	11.25	78.31	4.4	33.63	7.8	25.7	2.02
I23	08 May 2024	17	11.24	81.87	4.4	33.64	7.8	25.7	1.87
I23	08 May 2024	18	11.19	84.37	4.3	33.65	7.8	25.7	1.89
I23	08 May 2024	19	11.10	84.23	4.2	33.66	7.8	25.7	1.65
I23	08 May 2024	20	11.05	82.57	4.1	33.66	7.8	25.7	1.57
I23	08 May 2024	21	11.06	78.53	4.1	33.66	7.8	25.7	1.50
I22	08 May 2024	1	17.29	83.68	8.9	33.47	8.3	24.3	0.50
I22	08 May 2024	2	17.25	84.85	8.9	33.47	8.3	24.3	0.53
I22	08 May 2024	3	17.18	85.73	8.8	33.47	8.3	24.3	0.60
I22	08 May 2024	4	16.74	85.48	8.4	33.46	8.2	24.4	0.77
I22	08 May 2024	5	14.50	84.81	8.1	33.48	8.2	24.9	1.43
I22	08 May 2024	6	13.42	80.99	7.5	33.49	8.1	25.1	2.04
I22	08 May 2024	7	12.95	83.30	6.8	33.49	8.0	25.2	2.08
I22	08 May 2024	8	12.32	85.91	6.3	33.50	8.0	25.4	1.99
I22	08 May 2024	9	12.02	88.55	5.9	33.52	7.9	25.4	1.81
I22	08 May 2024	10	11.76	90.77	5.5	33.54	7.9	25.5	1.55
I22	08 May 2024	11	11.50	92.41	5.2	33.55	7.9	25.6	1.37
I22	08 May 2024	12	11.33	93.95	5.0	33.57	7.8	25.6	1.39
I22	08 May 2024	13	11.27	94.86	4.9	33.58	7.8	25.6	1.36
I22	08 May 2024	14	11.25	95.36	4.8	33.59	7.8	25.6	1.33
I22	08 May 2024	15	11.15	95.86	4.8	33.59	7.8	25.7	1.19
I22	08 May 2024	16	11.11	96.13	4.7	33.60	7.8	25.7	1.18
I22	08 May 2024	17	11.10	96.52	4.7	33.60	7.8	25.7	1.18
I22	08 May 2024	18	11.10	96.60	4.7	33.61	7.8	25.7	1.18
I22	08 May 2024	19	11.08	96.62	4.7	33.62	7.8	25.7	1.25
I22	08 May 2024	20	11.07	96.72	4.6	33.62	7.8	25.7	1.32
I22	08 May 2024	21	11.04	96.72	4.6	33.63	7.8	25.7	1.48
I22	08 May 2024	22	11.00	96.77	4.5	33.64	7.8	25.7	1.25
I22	08 May 2024	23	10.95	96.88	4.4	33.66	7.8	25.7	1.32
I22	08 May 2024	24	10.90	96.53	4.4	33.67	7.8	25.8	1.23
I22	08 May 2024	25	10.86	96.09	4.3	33.68	7.8	25.8	1.20
I22	08 May 2024	26	10.79	95.27	4.1	33.70	7.8	25.8	1.22
I22	08 May 2024	27	10.76	93.26	4.0	33.71	7.8	25.8	1.17
I22	08 May 2024	28	10.76	91.94	4.0	33.71	7.8	25.8	1.16
I20	08 May 2024	1	17.41	85.35	9.0	33.46	8.2	24.2	1.29
I20	08 May 2024	2	17.40	85.61	9.0	33.46	8.2	24.2	1.34
I20	08 May 2024	3	17.40	86.16	9.0	33.46	8.2	24.2	1.39
I20	08 May 2024	4	17.39	86.25	9.0	33.46	8.2	24.2	1.50
I20	08 May 2024	5	17.33	86.04	9.0	33.46	8.2	24.3	1.54
I20	08 May 2024	6	17.00	86.22	8.8	33.45	8.2	24.3	1.66
I20	08 May 2024	7	16.07	86.26	8.8	33.43	8.2	24.5	2.14
I20	08 May 2024	8	14.87	86.14	8.7	33.42	8.2	24.8	2.89
I20	08 May 2024	9	14.23	85.56	8.5	33.41	8.1	24.9	4.73
I20	08 May 2024	10	13.94	83.58	8.2	33.42	8.1	25.0	5.54
I20	08 May 2024	11	13.80	83.49	7.9	33.42	8.1	25.0	5.87
I20	08 May 2024	12	13.45	84.72	7.4	33.41	8.1	25.1	5.70

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I20	08 May 2024	13	12.42	85.08	7.0	33.41	8.0	25.3	6.33
I20	08 May 2024	14	12.37	87.04	6.7	33.42	8.0	25.3	6.63
I20	08 May 2024	15	12.24	86.97	6.4	33.43	8.0	25.3	7.34
I20	08 May 2024	16	12.08	89.31	6.0	33.44	7.9	25.4	5.52
I20	08 May 2024	17	11.70	91.80	5.6	33.49	7.9	25.5	2.98
I20	08 May 2024	18	11.62	94.08	5.3	33.51	7.9	25.5	2.14
I20	08 May 2024	19	11.64	93.43	5.2	33.51	7.9	25.5	2.18
I20	08 May 2024	20	11.47	95.39	5.1	33.54	7.8	25.6	1.46
I20	08 May 2024	21	11.44	95.86	5.0	33.55	7.8	25.6	1.43
I20	08 May 2024	22	11.35	96.19	4.9	33.56	7.8	25.6	1.35
I20	08 May 2024	23	11.32	96.52	4.9	33.57	7.8	25.6	1.15
I20	08 May 2024	24	11.31	97.25	4.8	33.57	7.8	25.6	1.07
I20	08 May 2024	25	11.30	97.35	4.8	33.58	7.8	25.6	1.16
I20	08 May 2024	26	11.30	97.35	4.8	33.58	7.8	25.6	1.08
I20	08 May 2024	27	11.27	97.14	4.8	33.59	7.8	25.6	1.00
I20	08 May 2024	28	11.26	97.37	4.7	33.59	7.8	25.6	1.25
I20	08 May 2024	29	11.25	97.43	4.7	33.59	7.8	25.6	1.06
I20	08 May 2024	30	11.20	97.55	4.7	33.60	7.8	25.6	1.03
I20	08 May 2024	31	11.15	97.53	4.7	33.61	7.8	25.7	1.08
I20	08 May 2024	32	11.11	97.55	4.6	33.62	7.8	25.7	1.00
I20	08 May 2024	33	11.10	97.64	4.6	33.62	7.8	25.7	0.90
I20	08 May 2024	34	11.08	97.87	4.6	33.62	7.8	25.7	1.01
I20	08 May 2024	35	11.02	97.94	4.5	33.63	7.8	25.7	0.86
I20	08 May 2024	36	11.00	97.77	4.5	33.64	7.8	25.7	0.95
I20	08 May 2024	37	10.98	97.98	4.5	33.64	7.8	25.7	0.84
I20	08 May 2024	38	10.95	98.07	4.5	33.65	7.8	25.7	0.84
I20	08 May 2024	39	10.90	97.96	4.4	33.66	7.8	25.7	0.92
I20	08 May 2024	40	10.84	98.07	4.4	33.67	7.8	25.8	0.86
I20	08 May 2024	41	10.81	98.41	4.3	33.67	7.8	25.8	0.72
I20	08 May 2024	42	10.78	98.47	4.3	33.68	7.8	25.8	0.70
I20	08 May 2024	43	10.75	98.50	4.3	33.68	7.8	25.8	0.64
I20	08 May 2024	44	10.65	98.52	4.2	33.71	7.8	25.8	0.65
I20	08 May 2024	45	10.62	98.64	4.2	33.72	7.8	25.8	0.61
I20	08 May 2024	46	10.59	98.57	4.2	33.73	7.8	25.9	0.61
I20	08 May 2024	47	10.57	98.49	4.1	33.73	7.8	25.9	0.57
I20	08 May 2024	48	10.49	98.60	4.1	33.75	7.8	25.9	0.52
I20	08 May 2024	49	10.43	98.63	4.0	33.77	7.8	25.9	0.46
I20	08 May 2024	50	10.33	98.75	4.0	33.78	7.8	25.9	0.40
I20	08 May 2024	51	10.28	98.51	4.0	33.79	7.8	26.0	0.34
I20	08 May 2024	52	10.26	98.65	4.0	33.80	7.8	26.0	0.31
I20	08 May 2024	53	10.25	98.43	4.0	33.80	7.8	26.0	0.30
I20	08 May 2024	54	10.25	98.16	4.0	33.80	7.8	26.0	0.31
I20	08 May 2024	55	10.25	98.25	4.0	33.80	7.8	26.0	0.30
I21	08 May 2024	1	17.20	83.77	9.0	33.46	8.2	24.3	1.40
I21	08 May 2024	2	17.17	84.49	9.0	33.46	8.2	24.3	1.60
I21	08 May 2024	3	17.15	84.84	9.0	33.46	8.2	24.3	1.72
I21	08 May 2024	4	17.10	84.87	9.0	33.46	8.2	24.3	1.82
I21	08 May 2024	5	16.87	84.80	8.6	33.46	8.2	24.4	2.11
I21	08 May 2024	6	15.02	83.05	8.1	33.49	8.2	24.8	3.18
I21	08 May 2024	7	13.99	81.41	7.6	33.47	8.1	25.0	4.35
I21	08 May 2024	8	13.43	84.05	7.2	33.46	8.0	25.1	4.90
I21	08 May 2024	9	12.81	86.32	6.6	33.47	8.0	25.2	3.95
I21	08 May 2024	10	12.05	87.76	6.0	33.50	8.0	25.4	3.79
I21	08 May 2024	11	11.67	90.85	5.6	33.51	7.9	25.5	3.73
I21	08 May 2024	12	11.96	93.41	5.5	33.49	7.9	25.4	2.99
I21	08 May 2024	13	11.57	94.22	5.3	33.52	7.9	25.5	2.97
I21	08 May 2024	14	11.56	95.04	5.2	33.52	7.8	25.5	2.18
I21	08 May 2024	15	11.51	94.66	5.1	33.53	7.8	25.5	2.24
I21	08 May 2024	16	11.46	96.16	5.0	33.54	7.8	25.6	2.22
I21	08 May 2024	17	11.43	96.30	5.0	33.55	7.8	25.6	1.58

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I21	08 May 2024	18	11.38	96.54	4.9	33.56	7.8	25.6	1.50
I21	08 May 2024	19	11.37	96.63	4.9	33.57	7.8	25.6	1.55
I21	08 May 2024	20	11.26	96.75	4.8	33.59	7.8	25.6	1.42
I21	08 May 2024	21	11.20	96.98	4.7	33.60	7.8	25.6	1.34
I21	08 May 2024	22	11.17	97.30	4.7	33.61	7.8	25.7	1.48
I21	08 May 2024	23	11.13	97.23	4.7	33.61	7.8	25.7	1.22
I21	08 May 2024	24	11.10	97.15	4.6	33.62	7.8	25.7	1.17
I21	08 May 2024	25	11.11	97.45	4.6	33.62	7.8	25.7	1.13
I21	08 May 2024	26	11.09	97.61	4.6	33.63	7.8	25.7	1.17
I21	08 May 2024	27	11.03	97.65	4.5	33.63	7.8	25.7	1.12
I21	08 May 2024	28	10.97	97.66	4.5	33.65	7.8	25.7	1.03
I21	08 May 2024	29	10.85	97.84	4.4	33.67	7.8	25.8	0.98
I21	08 May 2024	30	10.74	98.05	4.3	33.70	7.8	25.8	0.87
I21	08 May 2024	31	10.74	97.63	4.3	33.70	7.8	25.8	0.81
I21	08 May 2024	32	10.71	97.98	4.2	33.71	7.8	25.8	0.81
I21	08 May 2024	33	10.69	97.94	4.2	33.71	7.8	25.8	0.81
I21	08 May 2024	34	10.67	97.83	4.2	33.72	7.8	25.8	0.78
I21	08 May 2024	35	10.64	97.86	4.1	33.72	7.8	25.8	0.80
I21	08 May 2024	36	10.60	97.76	4.0	33.74	7.8	25.9	0.74
I21	08 May 2024	37	10.54	97.76	4.0	33.75	7.8	25.9	0.71
I21	08 May 2024	38	10.50	97.66	3.9	33.77	7.7	25.9	0.67
I21	08 May 2024	39	10.49	97.71	3.8	33.77	7.7	25.9	0.64
I21	08 May 2024	40	10.48	97.66	3.8	33.77	7.7	25.9	0.63
I21	08 May 2024	41	10.48	97.40	3.7	33.77	7.7	25.9	0.62
I27	08 May 2024	1	17.36	83.26	8.9	33.47	8.2	24.2	0.80
I27	08 May 2024	2	17.36	83.46	8.9	33.47	8.2	24.3	0.81
I27	08 May 2024	3	17.31	83.47	8.9	33.47	8.2	24.3	0.90
I27	08 May 2024	4	17.20	83.54	8.7	33.46	8.2	24.3	1.04
I27	08 May 2024	5	16.14	83.34	8.1	33.43	8.2	24.5	1.41
I27	08 May 2024	6	13.60	81.87	7.6	33.50	8.1	25.1	2.00
I27	08 May 2024	7	13.44	83.25	6.9	33.45	8.0	25.1	2.10
I27	08 May 2024	8	12.12	86.94	6.3	33.52	8.0	25.4	2.09
I27	08 May 2024	9	12.53	88.47	6.0	33.50	7.9	25.3	1.97
I27	08 May 2024	10	11.76	88.75	5.6	33.56	7.9	25.5	1.69
I27	08 May 2024	11	11.52	92.18	5.2	33.57	7.9	25.6	1.70
I27	08 May 2024	12	11.48	93.43	5.1	33.58	7.9	25.6	1.49
I27	08 May 2024	13	11.43	93.50	5.0	33.59	7.8	25.6	1.58
I27	08 May 2024	14	11.29	93.57	4.9	33.60	7.8	25.6	1.42
I27	08 May 2024	15	11.25	94.42	4.8	33.61	7.8	25.6	1.58
I27	08 May 2024	16	11.18	95.01	4.7	33.62	7.8	25.7	1.50
I27	08 May 2024	17	11.07	95.14	4.6	33.64	7.8	25.7	1.38
I27	08 May 2024	18	10.99	95.36	4.5	33.65	7.8	25.7	1.25
I27	08 May 2024	19	10.98	96.56	4.4	33.66	7.8	25.7	1.17
I27	08 May 2024	20	10.76	96.91	4.4	33.69	7.8	25.8	1.03
I27	08 May 2024	21	10.73	97.37	4.3	33.70	7.8	25.8	0.93
I27	08 May 2024	22	10.68	97.19	4.1	33.72	7.8	25.8	0.99
I27	08 May 2024	23	10.65	96.00	4.0	33.73	7.8	25.8	1.16
I27	08 May 2024	24	10.64	93.60	3.9	33.73	7.8	25.9	1.11
I27	08 May 2024	25	10.64	91.82	3.8	33.73	7.8	25.9	1.15
I27	08 May 2024	26	10.64	90.89	3.8	33.73	7.8	25.9	1.16
I27	08 May 2024	27	10.64	90.26	3.8	33.74	7.7	25.9	1.18
I27	08 May 2024	28	10.64	90.32	3.8	33.74	7.7	25.9	1.17
I28	10 May 2024	1	17.18	81.18	9.1	33.47	8.2	24.3	3.12
I28	10 May 2024	2	17.16	80.86	9.1	33.47	8.2	24.3	3.22
I28	10 May 2024	3	17.15	81.28	9.1	33.47	8.2	24.3	3.21
I28	10 May 2024	4	17.16	82.02	9.1	33.47	8.2	24.3	3.14
I28	10 May 2024	5	17.14	81.62	9.1	33.47	8.2	24.3	3.18
I28	10 May 2024	6	17.10	82.20	9.1	33.47	8.2	24.3	3.02
I28	10 May 2024	7	17.10	83.56	9.0	33.47	8.2	24.3	3.12

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I28	10 May 2024	8	17.10	83.37	8.9	33.47	8.2	24.3	3.38
I28	10 May 2024	9	16.37	82.90	8.6	33.50	8.2	24.5	3.40
I28	10 May 2024	10	15.55	83.07	8.2	33.50	8.2	24.7	3.83
I28	10 May 2024	11	14.16	83.46	7.7	33.52	8.1	25.0	4.06
I28	10 May 2024	12	12.98	84.21	7.1	33.54	8.0	25.3	4.72
I28	10 May 2024	13	12.60	85.74	6.5	33.52	8.0	25.3	4.56
I28	10 May 2024	14	12.36	89.66	6.1	33.52	7.9	25.4	3.50
I28	10 May 2024	15	12.31	91.46	5.9	33.52	7.9	25.4	3.05
I28	10 May 2024	16	12.26	91.34	5.8	33.52	7.9	25.4	2.93
I28	10 May 2024	17	12.18	91.74	5.8	33.53	7.9	25.4	3.05
I28	10 May 2024	18	12.12	91.93	5.7	33.53	7.9	25.4	2.90
I28	10 May 2024	19	12.00	91.55	5.5	33.54	7.9	25.5	2.74
I28	10 May 2024	20	11.87	92.55	5.4	33.55	7.9	25.5	2.51
I28	10 May 2024	21	11.80	93.52	5.3	33.55	7.8	25.5	2.37
I28	10 May 2024	22	11.77	93.92	5.2	33.55	7.8	25.5	2.22
I28	10 May 2024	23	11.69	94.13	5.2	33.56	7.8	25.5	2.17
I28	10 May 2024	24	11.53	94.46	5.0	33.57	7.8	25.6	1.78
I28	10 May 2024	25	11.32	94.94	4.8	33.59	7.8	25.6	1.48
I28	10 May 2024	26	11.22	96.09	4.7	33.59	7.8	25.6	1.47
I28	10 May 2024	27	11.20	96.81	4.7	33.60	7.8	25.6	1.19
I28	10 May 2024	28	11.19	96.96	4.7	33.60	7.8	25.7	1.32
I28	10 May 2024	29	11.18	97.17	4.7	33.60	7.8	25.7	1.16
I28	10 May 2024	30	11.10	97.04	4.6	33.62	7.8	25.7	1.31
I28	10 May 2024	31	11.04	97.27	4.5	33.63	7.8	25.7	1.16
I28	10 May 2024	32	11.01	97.59	4.5	33.64	7.8	25.7	1.13
I28	10 May 2024	33	11.00	97.53	4.4	33.64	7.8	25.7	0.98
I28	10 May 2024	34	10.94	97.41	4.4	33.66	7.8	25.7	1.00
I28	10 May 2024	35	10.82	97.42	4.3	33.68	7.8	25.8	0.95
I28	10 May 2024	36	10.73	97.51	4.2	33.70	7.8	25.8	0.86
I28	10 May 2024	37	10.69	97.86	4.2	33.70	7.8	25.8	0.84
I28	10 May 2024	38	10.66	98.23	4.2	33.71	7.8	25.8	0.77
I28	10 May 2024	39	10.57	98.31	4.2	33.72	7.7	25.9	0.70
I28	10 May 2024	40	10.57	98.47	4.1	33.73	7.7	25.9	0.65
I28	10 May 2024	41	10.57	98.38	4.1	33.73	7.7	25.9	0.64
I28	10 May 2024	42	10.55	98.23	4.1	33.73	7.7	25.9	0.66
I28	10 May 2024	43	10.52	98.12	4.0	33.74	7.7	25.9	0.64
I28	10 May 2024	44	10.49	98.20	4.0	33.74	7.7	25.9	0.61
I28	10 May 2024	45	10.48	98.35	4.0	33.75	7.7	25.9	0.58
I28	10 May 2024	46	10.47	98.32	4.0	33.75	7.7	25.9	0.58
I28	10 May 2024	47	10.47	98.17	4.0	33.75	7.7	25.9	0.62
I28	10 May 2024	48	10.46	98.06	3.9	33.75	7.7	25.9	0.59
I28	10 May 2024	49	10.46	97.86	3.9	33.76	7.7	25.9	0.56
I28	10 May 2024	50	10.44	97.45	3.7	33.77	7.7	25.9	0.59
I28	10 May 2024	51	10.38	96.64	3.6	33.79	7.7	25.9	0.56
I28	10 May 2024	52	10.37	96.52	3.6	33.79	7.7	25.9	0.56
I28	10 May 2024	53	10.37	95.77	3.5	33.79	7.7	25.9	0.53
I28	10 May 2024	54	10.36	95.48	3.5	33.80	7.7	26.0	0.54
I28	10 May 2024	55	10.34	94.16	3.4	33.80	7.7	26.0	0.58
I29	10 May 2024	1	17.20	75.93	9.3	33.49	8.2	24.3	4.11
I29	10 May 2024	2	17.20	75.20	9.3	33.49	8.2	24.3	4.36
I29	10 May 2024	3	17.19	75.83	9.3	33.49	8.2	24.3	4.78
I29	10 May 2024	4	17.18	76.45	9.3	33.49	8.2	24.3	4.90
I29	10 May 2024	5	17.17	77.08	9.2	33.49	8.2	24.3	5.01
I29	10 May 2024	6	17.16	77.61	9.2	33.49	8.2	24.3	4.91
I29	10 May 2024	7	17.10	78.93	9.2	33.49	8.2	24.3	4.84
I29	10 May 2024	8	16.94	79.50	9.0	33.49	8.2	24.4	4.97
I29	10 May 2024	9	16.43	79.92	8.8	33.49	8.2	24.5	5.70
I29	10 May 2024	10	16.22	79.52	8.5	33.48	8.2	24.5	6.40
I29	10 May 2024	11	15.57	80.27	7.9	33.50	8.2	24.7	6.54
I29	10 May 2024	12	13.81	80.24	6.7	33.56	8.0	25.1	6.49

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I29	10 May 2024	13	12.66	80.33	5.8	33.58	7.9	25.4	5.48
I29	10 May 2024	14	11.78	82.54	5.4	33.58	7.9	25.5	4.72
I29	10 May 2024	15	11.41	88.87	5.1	33.58	7.8	25.6	2.87
I29	10 May 2024	16	11.34	93.12	4.9	33.60	7.8	25.6	2.07
I29	10 May 2024	17	11.23	93.51	4.8	33.61	7.8	25.7	1.81
I29	10 May 2024	18	11.10	94.14	4.6	33.63	7.8	25.7	1.55
I29	10 May 2024	19	11.00	94.80	4.5	33.65	7.8	25.7	1.50
I29	10 May 2024	20	10.90	94.99	4.4	33.66	7.8	25.8	1.48
I29	10 May 2024	21	10.83	95.44	4.3	33.67	7.8	25.8	1.24
I29	10 May 2024	22	10.71	96.01	4.3	33.69	7.8	25.8	1.05
I29	10 May 2024	23	10.69	97.02	4.2	33.70	7.8	25.8	0.91
I29	10 May 2024	24	10.68	97.03	4.1	33.71	7.8	25.8	0.96
I29	10 May 2024	25	10.68	96.00	4.0	33.72	7.7	25.8	0.99
I29	10 May 2024	26	10.65	94.84	3.9	33.73	7.7	25.8	1.06
I29	10 May 2024	27	10.65	93.51	3.8	33.73	7.7	25.8	1.05
I29	10 May 2024	28	10.65	92.72	3.8	33.73	7.7	25.9	1.02
I29	10 May 2024	29	10.65	92.27	3.8	33.73	7.7	25.9	1.06
I29	10 May 2024	30	10.64	92.43	3.8	33.73	7.7	25.9	1.03
I29	10 May 2024	31	10.63	92.51	3.8	33.74	7.7	25.9	0.98
I29	10 May 2024	32	10.62	92.86	3.8	33.74	7.7	25.9	0.96
I29	10 May 2024	33	10.62	93.07	3.8	33.74	7.7	25.9	0.95
I29	10 May 2024	34	10.62	92.91	3.7	33.74	7.7	25.9	0.92
I29	10 May 2024	35	10.62	92.89	3.7	33.74	7.7	25.9	0.95
I29	10 May 2024	36	10.62	93.00	3.7	33.74	7.7	25.9	0.94
I29	10 May 2024	37	10.62	92.62	3.7	33.74	7.7	25.9	0.93
I30	10 May 2024	1	17.36	75.10	9.4	33.48	8.3	24.3	5.68
I30	10 May 2024	2	17.36	75.65	9.4	33.48	8.3	24.3	5.78
I30	10 May 2024	3	17.34	75.81	9.4	33.48	8.3	24.3	6.19
I30	10 May 2024	4	17.30	76.35	9.3	33.48	8.2	24.3	5.67
I30	10 May 2024	5	17.11	78.35	9.1	33.48	8.2	24.3	5.49
I30	10 May 2024	6	16.60	79.64	8.9	33.49	8.2	24.4	5.39
I30	10 May 2024	7	16.38	79.69	8.7	33.48	8.2	24.5	6.20
I30	10 May 2024	8	15.68	78.61	8.3	33.50	8.2	24.7	7.50
I30	10 May 2024	9	14.37	77.90	7.7	33.53	8.1	25.0	8.31
I30	10 May 2024	10	13.72	76.90	7.3	33.53	8.0	25.1	9.36
I30	10 May 2024	11	13.03	75.53	6.7	33.55	8.0	25.3	9.43
I30	10 May 2024	12	12.18	78.59	6.1	33.55	7.9	25.4	7.12
I30	10 May 2024	13	11.81	84.65	5.5	33.58	7.9	25.5	5.08
I30	10 May 2024	14	11.59	88.71	5.1	33.59	7.8	25.6	3.72
I30	10 May 2024	15	11.29	90.65	4.8	33.60	7.8	25.6	3.01
I30	10 May 2024	16	11.11	93.01	4.7	33.61	7.8	25.7	1.94
I30	10 May 2024	17	11.04	94.84	4.6	33.63	7.8	25.7	1.52
I30	10 May 2024	18	10.95	95.64	4.5	33.64	7.8	25.7	1.32
I30	10 May 2024	19	10.90	95.88	4.4	33.66	7.8	25.7	1.29
I30	10 May 2024	20	10.90	95.25	4.3	33.66	7.8	25.8	1.41
I30	10 May 2024	21	10.91	94.10	4.2	33.67	7.8	25.8	1.31
I30	10 May 2024	22	10.90	92.52	4.1	33.68	7.8	25.8	1.30
I30	10 May 2024	23	10.89	90.94	4.0	33.69	7.7	25.8	1.34
I30	10 May 2024	24	10.88	90.48	4.0	33.69	7.7	25.8	1.32
I30	10 May 2024	25	10.87	90.19	4.0	33.69	7.7	25.8	1.30
I30	10 May 2024	26	10.87	89.43	3.9	33.69	7.7	25.8	1.33
I30	10 May 2024	27	10.87	89.45	3.9	33.70	7.7	25.8	1.37
I30	10 May 2024	28	10.88	88.99	3.9	33.70	7.7	25.8	1.41
I31	10 May 2024	1	17.16	79.18	9.3	33.48	8.2	24.3	3.13
I31	10 May 2024	2	17.15	79.05	9.3	33.48	8.2	24.3	3.51
I31	10 May 2024	3	17.14	79.35	9.3	33.48	8.2	24.3	3.68
I31	10 May 2024	4	17.12	79.82	9.2	33.48	8.2	24.3	3.70
I31	10 May 2024	5	17.12	80.37	9.2	33.48	8.2	24.3	3.67
I31	10 May 2024	6	17.11	80.72	9.2	33.48	8.2	24.3	3.55

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I31	10 May 2024	7	17.11	81.14	9.2	33.48	8.2	24.3	3.54
I31	10 May 2024	8	17.10	81.28	9.2	33.48	8.2	24.3	3.53
I31	10 May 2024	9	17.09	81.45	9.2	33.48	8.2	24.3	3.61
I31	10 May 2024	10	17.04	81.28	9.1	33.48	8.2	24.3	3.75
I31	10 May 2024	11	16.96	82.05	9.0	33.48	8.2	24.4	3.81
I31	10 May 2024	12	16.65	82.69	8.8	33.48	8.2	24.4	3.85
I31	10 May 2024	13	15.45	82.90	8.1	33.49	8.2	24.7	4.47
I31	10 May 2024	14	13.25	81.59	6.9	33.53	8.1	25.2	5.10
I31	10 May 2024	15	11.47	81.09	5.6	33.60	7.9	25.6	3.64
I31	10 May 2024	16	11.30	88.07	4.9	33.59	7.8	25.6	2.11
I31	10 May 2024	17	11.29	90.99	4.8	33.58	7.8	25.6	1.70
I31	10 May 2024	18	11.27	90.98	4.7	33.59	7.8	25.6	1.68
I31	10 May 2024	19	11.31	90.76	4.7	33.60	7.8	25.6	1.71
I33	10 May 2024	1	17.35	79.56	7.9	33.46	8.1	24.3	3.71
I33	10 May 2024	2	17.31	79.35	7.9	33.47	8.1	24.3	4.05
I33	10 May 2024	3	17.22	78.82	8.0	33.47	8.1	24.3	4.61
I33	10 May 2024	4	17.09	78.36	8.1	33.48	8.2	24.3	4.90
I33	10 May 2024	5	16.95	78.10	8.2	33.48	8.2	24.4	5.26
I33	10 May 2024	6	16.86	77.55	8.4	33.48	8.2	24.4	5.56
I33	10 May 2024	7	16.69	77.08	8.3	33.48	8.2	24.4	5.73
I33	10 May 2024	8	16.44	76.66	8.2	33.49	8.2	24.5	6.11
I33	10 May 2024	9	16.22	76.31	8.0	33.49	8.1	24.5	6.54
I33	10 May 2024	10	16.16	77.17	8.0	33.49	8.1	24.6	6.31
I33	10 May 2024	11	16.03	77.93	7.9	33.49	8.1	24.6	5.60
I33	10 May 2024	12	15.89	80.67	7.8	33.50	8.1	24.6	4.91
I33	10 May 2024	13	15.85	81.48	7.7	33.50	8.1	24.6	4.30
I33	10 May 2024	14	15.17	82.77	7.2	33.52	8.1	24.8	3.62
I33	10 May 2024	15	14.09	86.15	6.6	33.56	8.0	25.1	2.78
I33	10 May 2024	16	13.20	88.53	6.1	33.58	8.0	25.3	2.55
I33	10 May 2024	17	13.02	89.64	5.9	33.58	7.9	25.3	2.53
I33	10 May 2024	18	12.90	89.56	5.7	33.58	7.9	25.3	2.61
I33	10 May 2024	19	12.73	89.27	5.5	33.58	7.9	25.3	2.53
I33	10 May 2024	20	12.12	89.30	5.2	33.61	7.9	25.5	2.30
I33	10 May 2024	21	11.46	90.62	4.8	33.65	7.8	25.6	1.67
I33	10 May 2024	22	11.16	92.45	4.5	33.67	7.8	25.7	1.19
I33	10 May 2024	23	10.94	93.51	4.3	33.68	7.8	25.8	0.97
I33	10 May 2024	24	10.87	94.06	4.2	33.69	7.8	25.8	0.86
I33	10 May 2024	25	10.74	94.58	4.1	33.70	7.7	25.8	0.77
I33	10 May 2024	26	10.70	94.67	4.0	33.71	7.7	25.8	0.73
I33	10 May 2024	27	10.71	95.10	4.0	33.71	7.7	25.8	0.75
I33	10 May 2024	28	10.72	94.79	4.0	33.71	7.7	25.8	0.77
I33	10 May 2024	29	10.72	93.68	4.0	33.72	7.7	25.8	0.76
I33	10 May 2024	30	10.73	93.22	4.0	33.72	7.7	25.8	0.80
I34	10 May 2024	1	17.10	77.62	9.0	33.48	8.2	24.3	4.14
I34	10 May 2024	2	17.10	77.77	9.0	33.48	8.2	24.3	4.31
I34	10 May 2024	3	17.10	77.70	9.0	33.48	8.2	24.3	4.41
I34	10 May 2024	4	17.10	77.90	9.0	33.48	8.2	24.3	4.46
I34	10 May 2024	5	17.05	78.78	8.9	33.48	8.2	24.3	4.36
I34	10 May 2024	6	16.91	79.42	8.8	33.48	8.2	24.4	4.38
I34	10 May 2024	7	16.79	79.75	8.7	33.48	8.2	24.4	4.99
I34	10 May 2024	8	16.51	79.66	8.2	33.48	8.2	24.5	5.76
I34	10 May 2024	9	15.47	78.20	7.6	33.50	8.1	24.7	7.07
I34	10 May 2024	10	14.95	73.57	7.0	33.51	8.1	24.8	8.02
I34	10 May 2024	11	13.85	73.47	6.2	33.53	8.0	25.1	7.67
I34	10 May 2024	12	12.61	73.88	5.6	33.59	7.9	25.4	6.43
I34	10 May 2024	13	12.01	77.00	5.0	33.60	7.8	25.5	4.77
I34	10 May 2024	14	11.75	79.59	4.7	33.61	7.8	25.6	3.62
I34	10 May 2024	15	11.55	81.74	4.6	33.63	7.8	25.6	2.79
I34	10 May 2024	16	11.27	85.62	4.4	33.65	7.8	25.7	2.03

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I34	10 May 2024	17	11.24	85.95	4.2	33.65	7.8	25.7	1.77
I34	10 May 2024	18	11.24	82.91	4.2	33.65	7.8	25.7	1.71
I34	10 May 2024	19	11.25	82.83	4.1	33.66	7.8	25.7	1.67
I35	10 May 2024	1	17.32	73.83	8.8	33.39	8.2	24.2	4.54
I35	10 May 2024	2	17.31	74.02	8.8	33.40	8.2	24.2	5.25
I35	10 May 2024	3	17.29	74.08	8.7	33.41	8.2	24.2	5.63
I35	10 May 2024	4	17.27	75.53	8.7	33.41	8.2	24.2	5.27
I35	10 May 2024	5	17.26	76.78	8.7	33.44	8.2	24.3	4.77
I35	10 May 2024	6	17.21	80.21	8.7	33.47	8.2	24.3	4.31
I35	10 May 2024	7	17.12	82.76	8.7	33.47	8.2	24.3	4.64
I35	10 May 2024	8	16.97	81.77	8.5	33.48	8.2	24.4	5.07
I35	10 May 2024	9	16.51	82.22	8.2	33.49	8.2	24.5	4.91
I35	10 May 2024	10	15.99	80.24	8.2	33.50	8.2	24.6	5.69
I35	10 May 2024	11	15.46	77.87	7.9	33.50	8.2	24.7	6.06
I35	10 May 2024	12	13.78	80.36	6.8	33.56	8.1	25.1	5.80
I35	10 May 2024	13	12.21	80.83	5.6	33.60	7.9	25.5	4.84
I35	10 May 2024	14	12.10	78.26	5.1	33.59	7.8	25.5	3.79
I35	10 May 2024	15	12.07	78.13	4.9	33.58	7.8	25.5	3.41
I35	10 May 2024	16	11.92	78.19	4.7	33.59	7.8	25.5	3.16
I35	10 May 2024	17	11.75	77.55	4.3	33.60	7.8	25.6	2.91
I35	10 May 2024	18	11.59	75.87	4.0	33.62	7.8	25.6	2.67
I35	10 May 2024	19	11.54	68.85	3.8	33.62	7.7	25.6	2.60
I36	10 May 2024	1	17.45	63.82	8.7	33.42	8.2	24.2	7.49
I36	10 May 2024	2	17.41	64.36	8.8	33.45	8.2	24.2	6.56
I36	10 May 2024	3	17.36	73.82	8.8	33.46	8.2	24.2	4.93
I36	10 May 2024	4	17.31	79.59	8.8	33.47	8.2	24.3	4.31
I36	10 May 2024	5	17.25	80.04	8.8	33.47	8.2	24.3	4.55
I36	10 May 2024	6	17.17	77.89	8.7	33.47	8.2	24.3	4.92
I36	10 May 2024	7	16.97	75.50	8.5	33.47	8.2	24.4	5.18
I36	10 May 2024	8	16.80	75.47	8.4	33.48	8.2	24.4	5.07
I36	10 May 2024	9	16.19	77.71	7.8	33.49	8.2	24.5	5.07
I36	10 May 2024	10	15.36	74.60	7.0	33.51	8.1	24.7	5.23
I36	10 May 2024	11	14.84	59.06	6.3	33.52	8.0	24.9	4.78
I37	10 May 2024	1	17.19	76.43	9.0	33.48	8.2	24.3	4.38
I37	10 May 2024	2	17.20	76.50	9.1	33.48	8.2	24.3	4.51
I37	10 May 2024	3	17.20	76.45	9.1	33.48	8.2	24.3	4.76
I37	10 May 2024	4	17.20	76.31	9.1	33.48	8.2	24.3	4.82
I37	10 May 2024	5	17.20	76.39	9.1	33.48	8.2	24.3	4.92
I37	10 May 2024	6	17.20	76.53	9.1	33.48	8.2	24.3	4.71
I37	10 May 2024	7	17.14	77.36	9.0	33.49	8.2	24.3	4.20
I37	10 May 2024	8	17.03	79.48	8.9	33.49	8.2	24.3	4.05
I37	10 May 2024	9	16.81	80.10	8.5	33.49	8.2	24.4	4.23
I37	10 May 2024	10	15.96	79.89	7.6	33.52	8.1	24.6	3.91
I37	10 May 2024	11	14.80	79.99	6.7	33.56	8.0	24.9	3.18
I37	10 May 2024	12	14.61	79.38	6.5	33.52	7.9	24.9	3.55
I38	10 May 2024	1	17.56	62.65	9.3	33.36	8.2	24.1	9.03
I38	10 May 2024	2	17.54	61.68	9.2	33.37	8.2	24.1	10.02
I38	10 May 2024	3	17.54	62.40	9.1	33.38	8.2	24.1	10.44
I38	10 May 2024	4	17.53	66.94	9.1	33.39	8.2	24.2	8.69
I38	10 May 2024	5	17.46	73.09	9.1	33.44	8.2	24.2	6.92
I38	10 May 2024	6	17.37	77.20	9.0	33.46	8.2	24.2	5.56
I38	10 May 2024	7	17.33	79.65	8.9	33.47	8.2	24.3	5.00
I38	10 May 2024	8	17.21	79.52	8.6	33.46	8.2	24.3	5.13
I38	10 May 2024	9	17.15	78.04	8.5	33.45	8.2	24.3	5.48
I38	10 May 2024	10	16.97	75.43	8.0	33.46	8.2	24.3	5.85
I38	10 May 2024	11	16.63	60.30	7.2	33.46	8.1	24.4	5.73

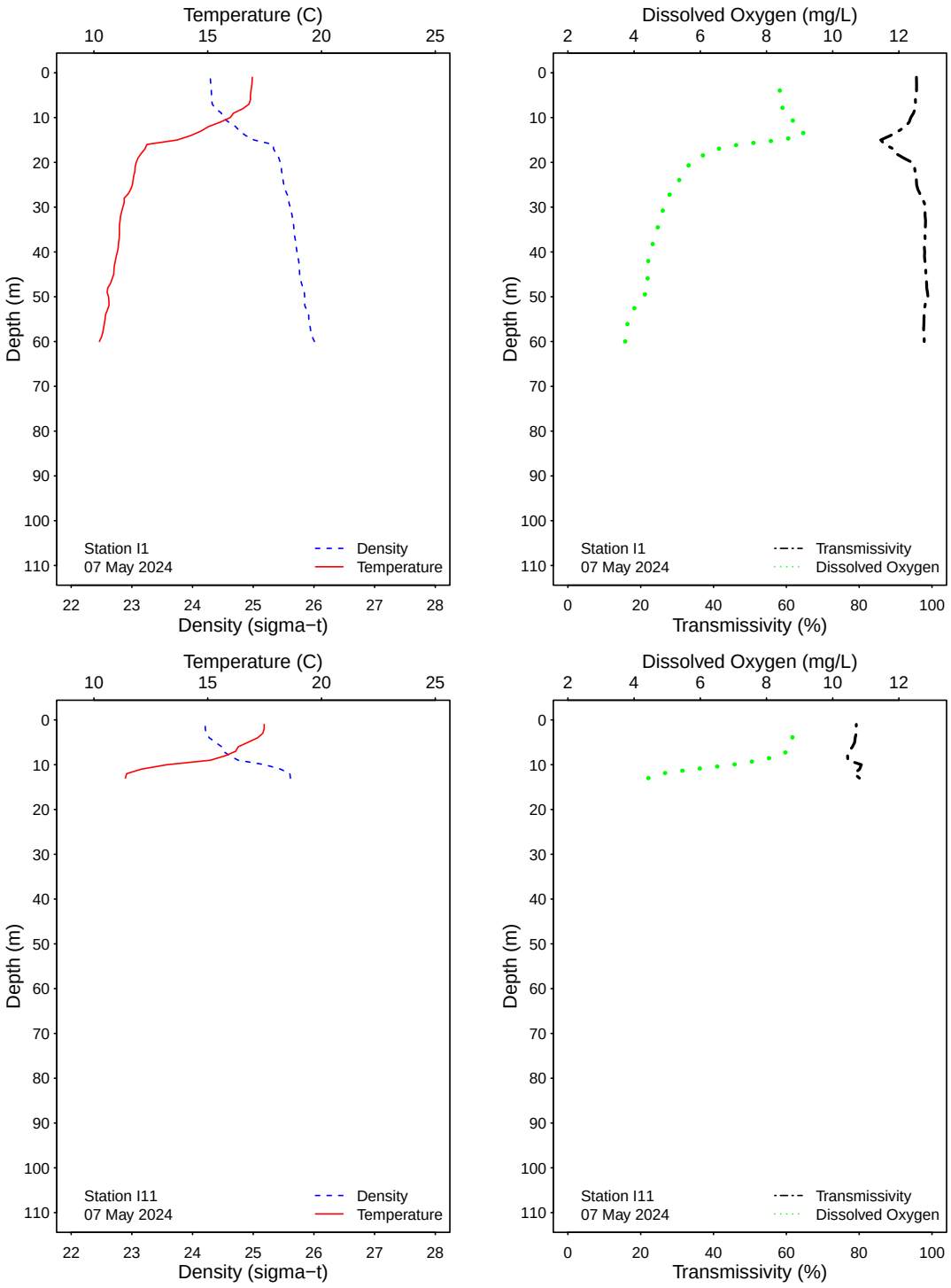

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

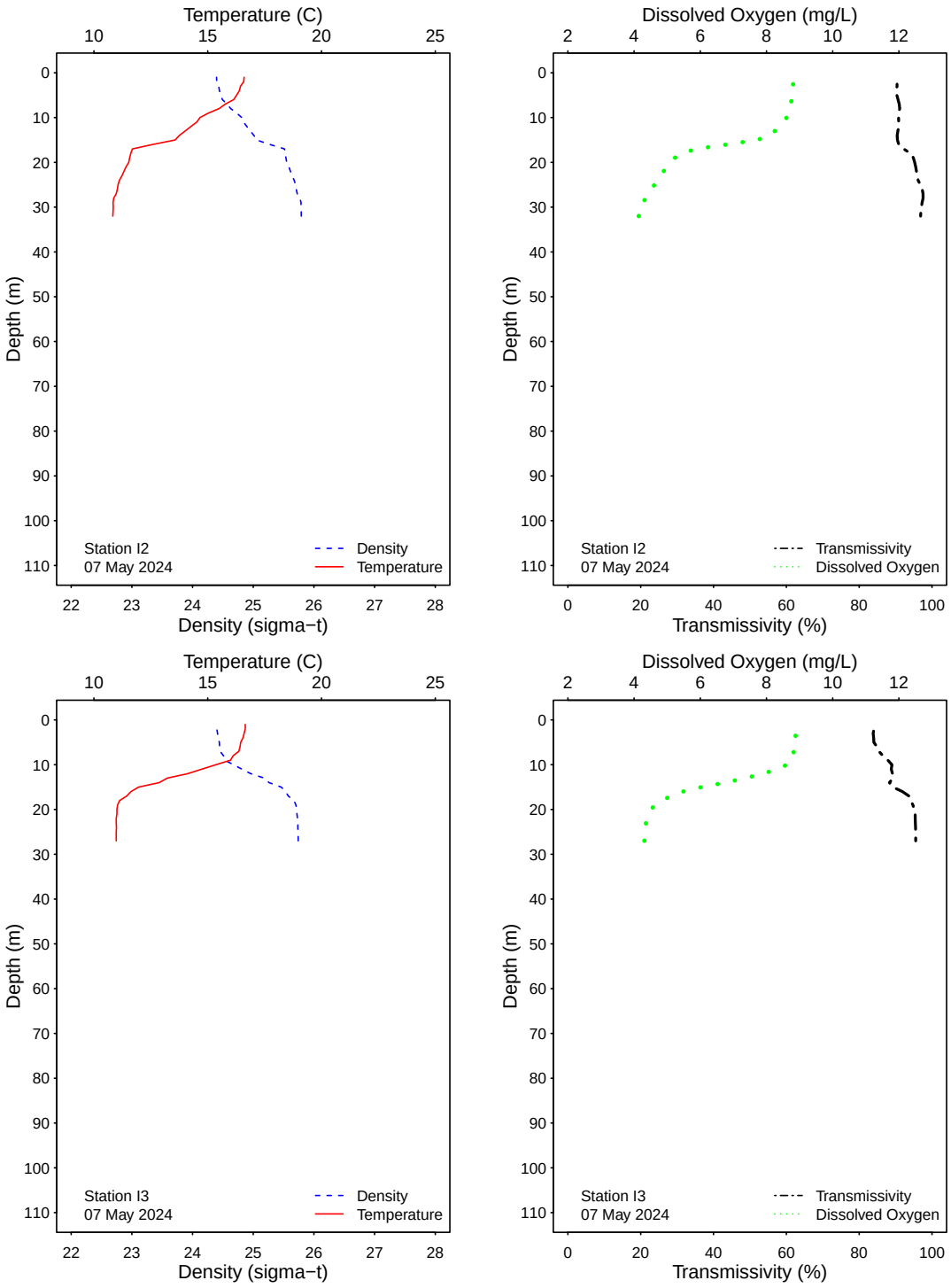

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

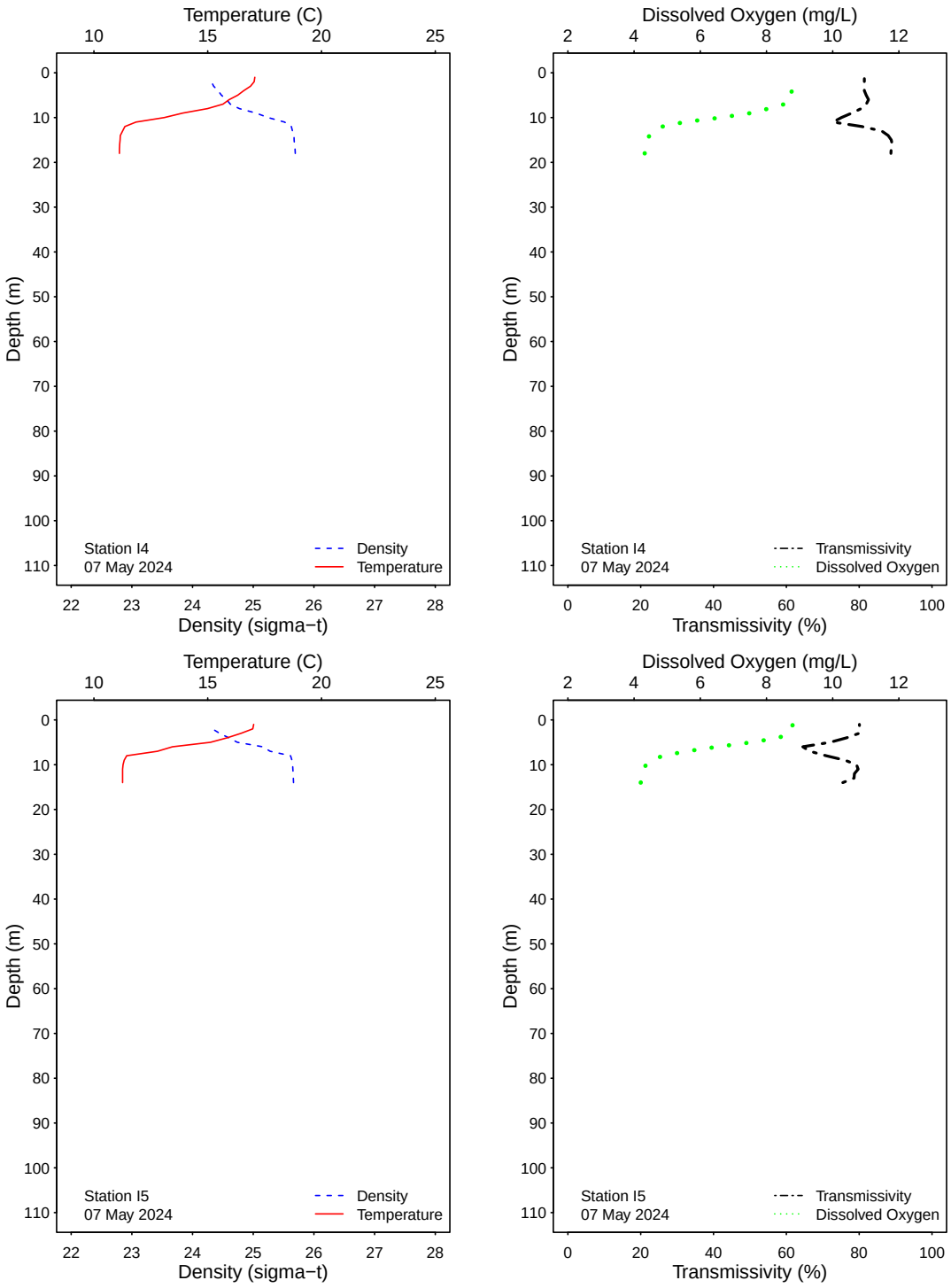

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

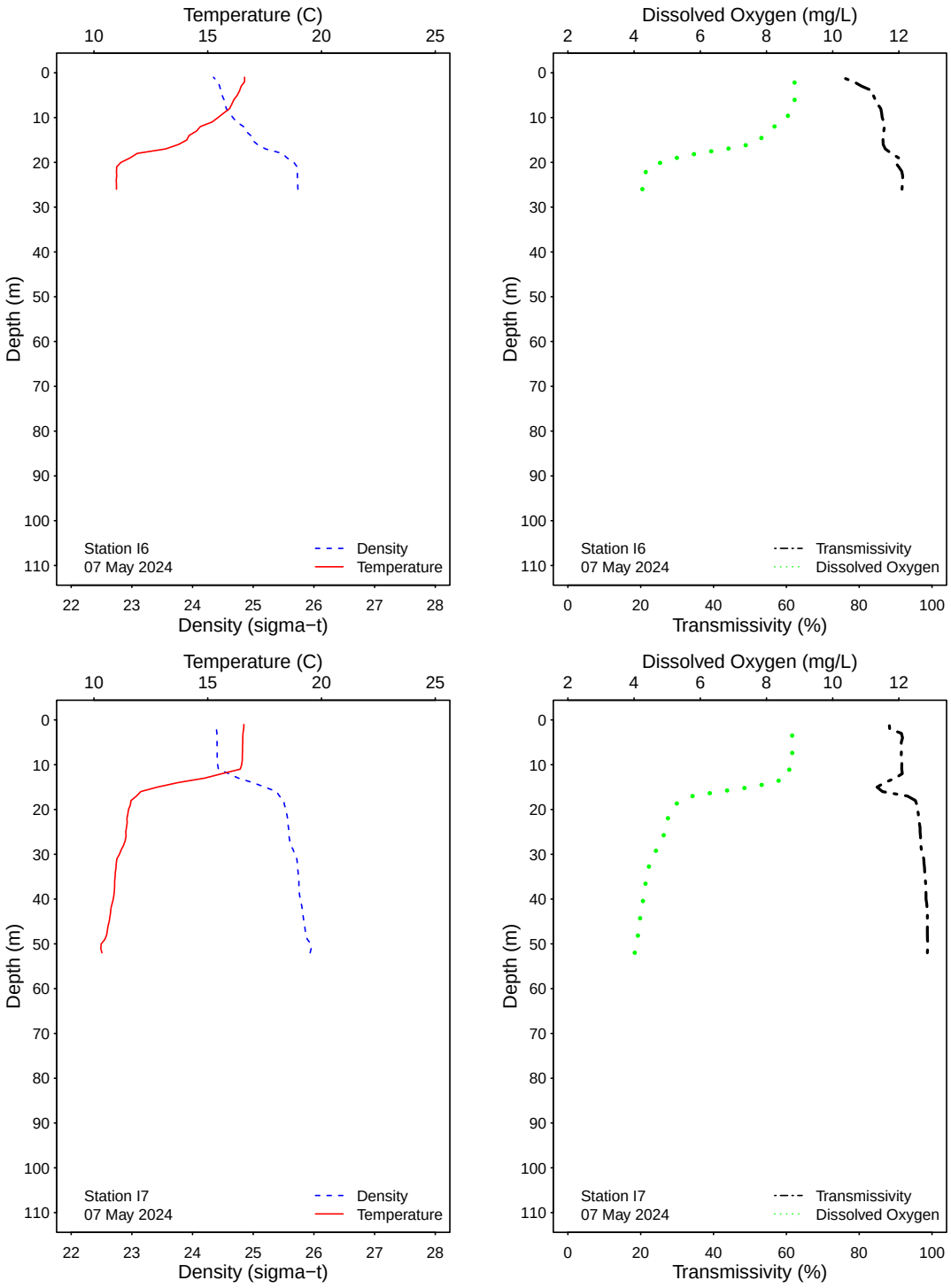

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

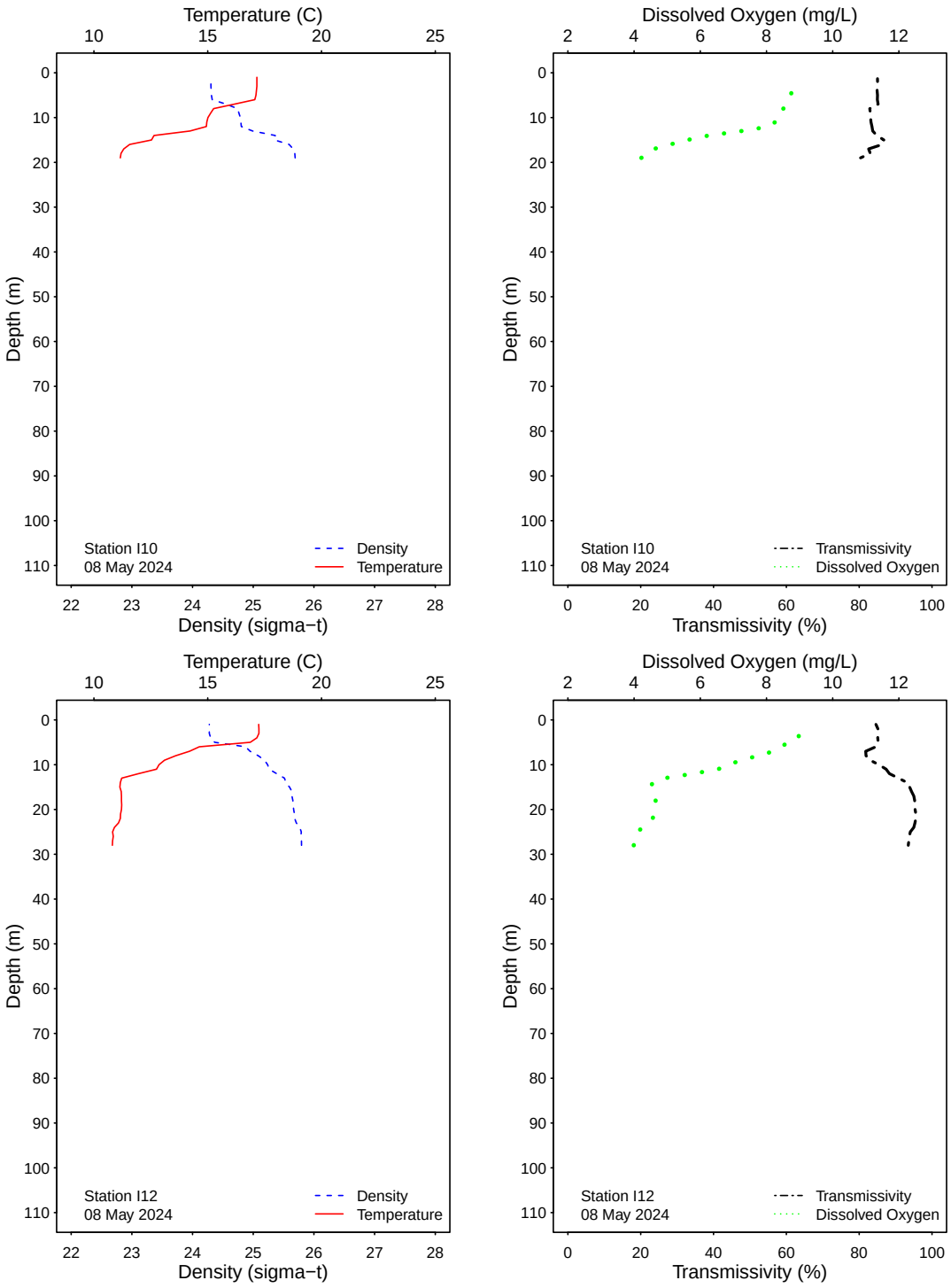

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

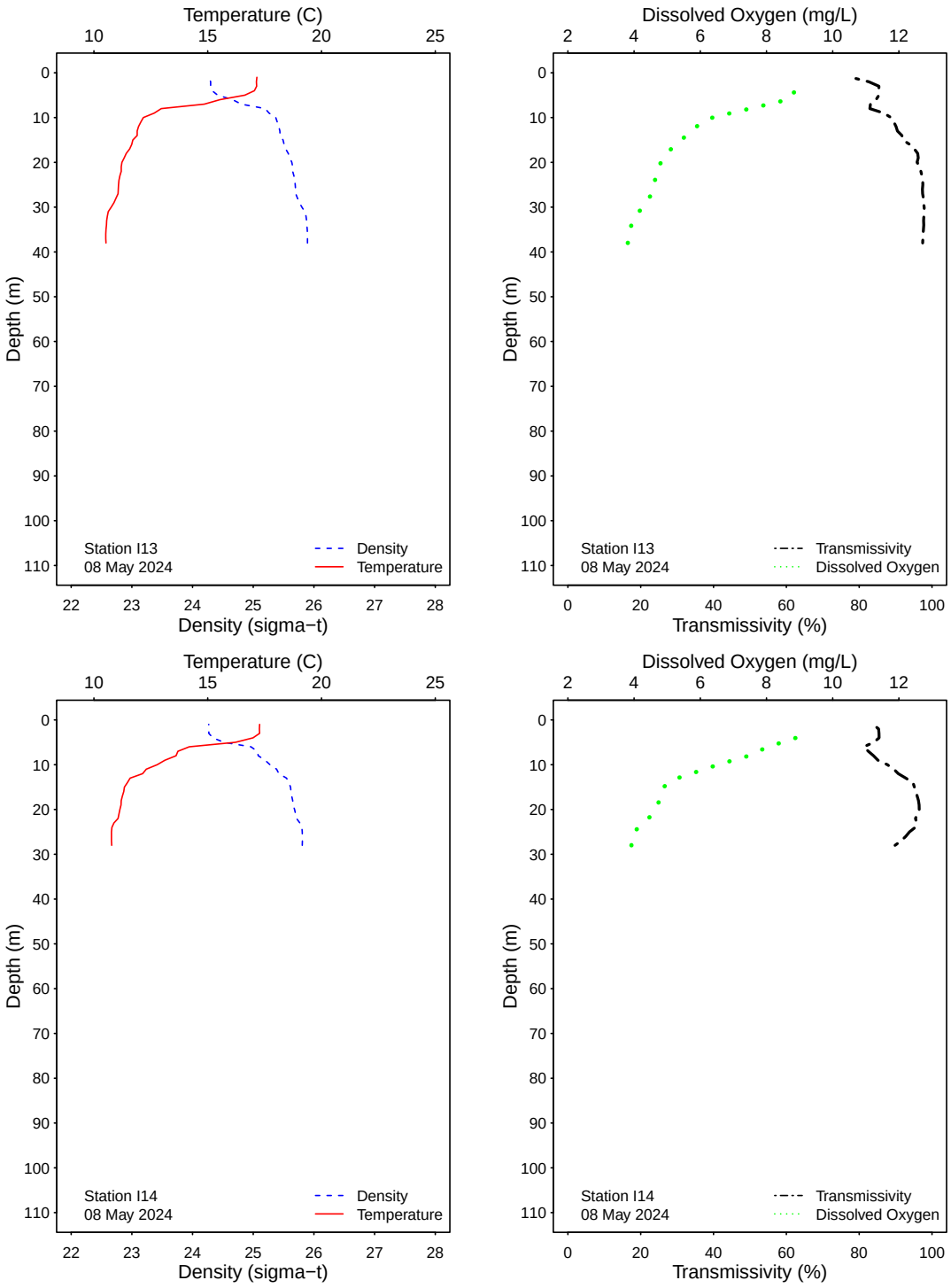

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

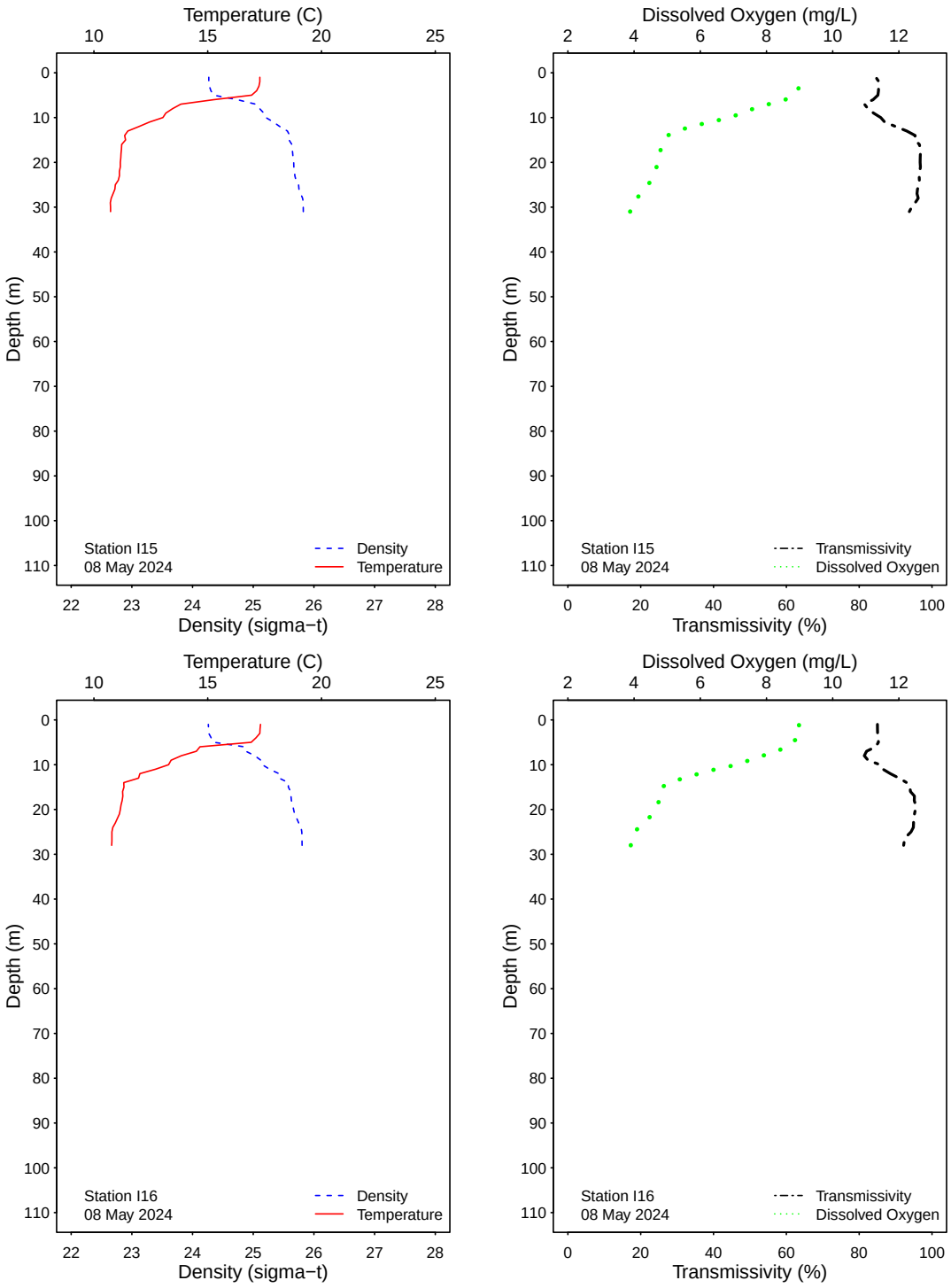

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

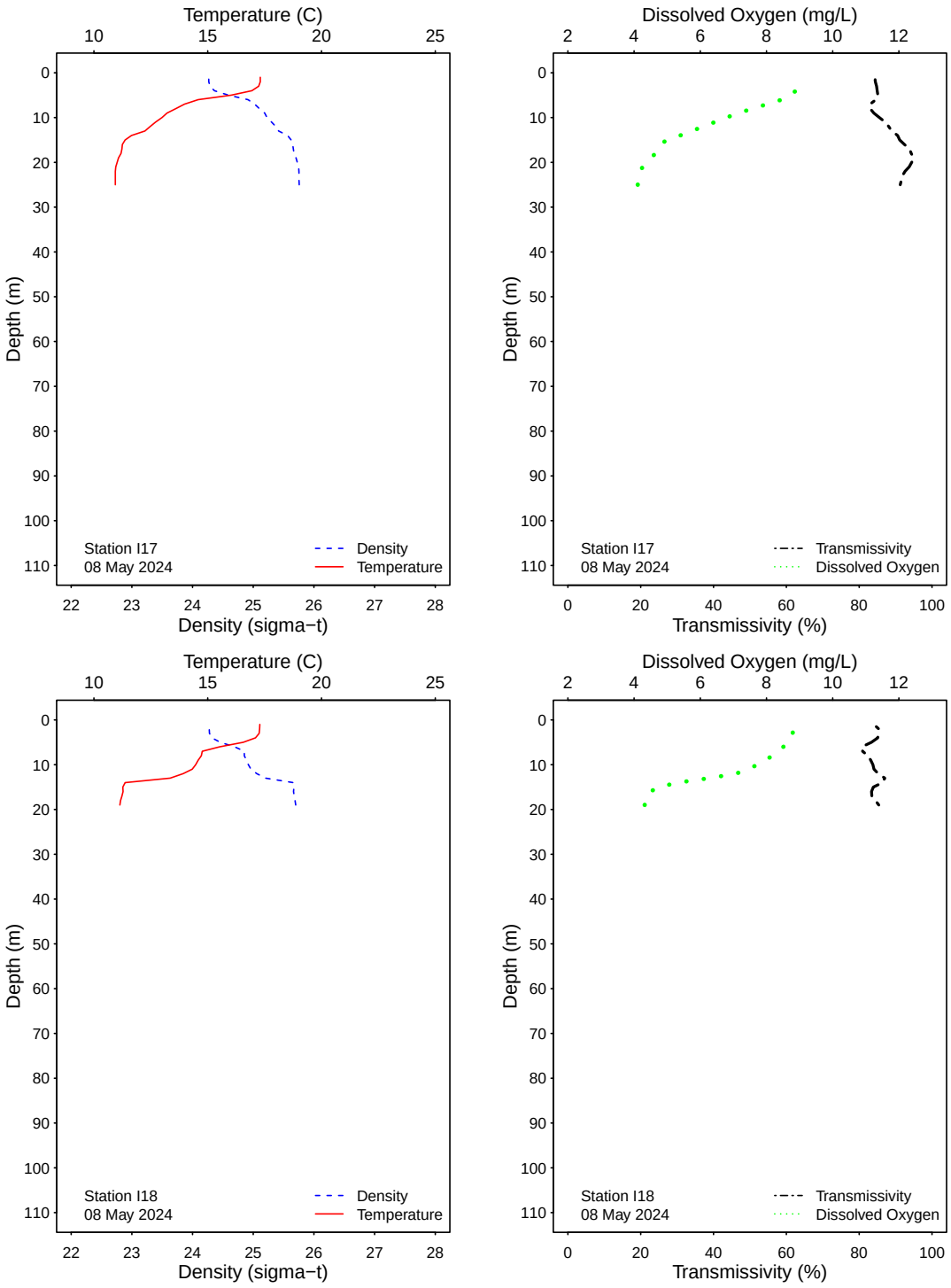

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

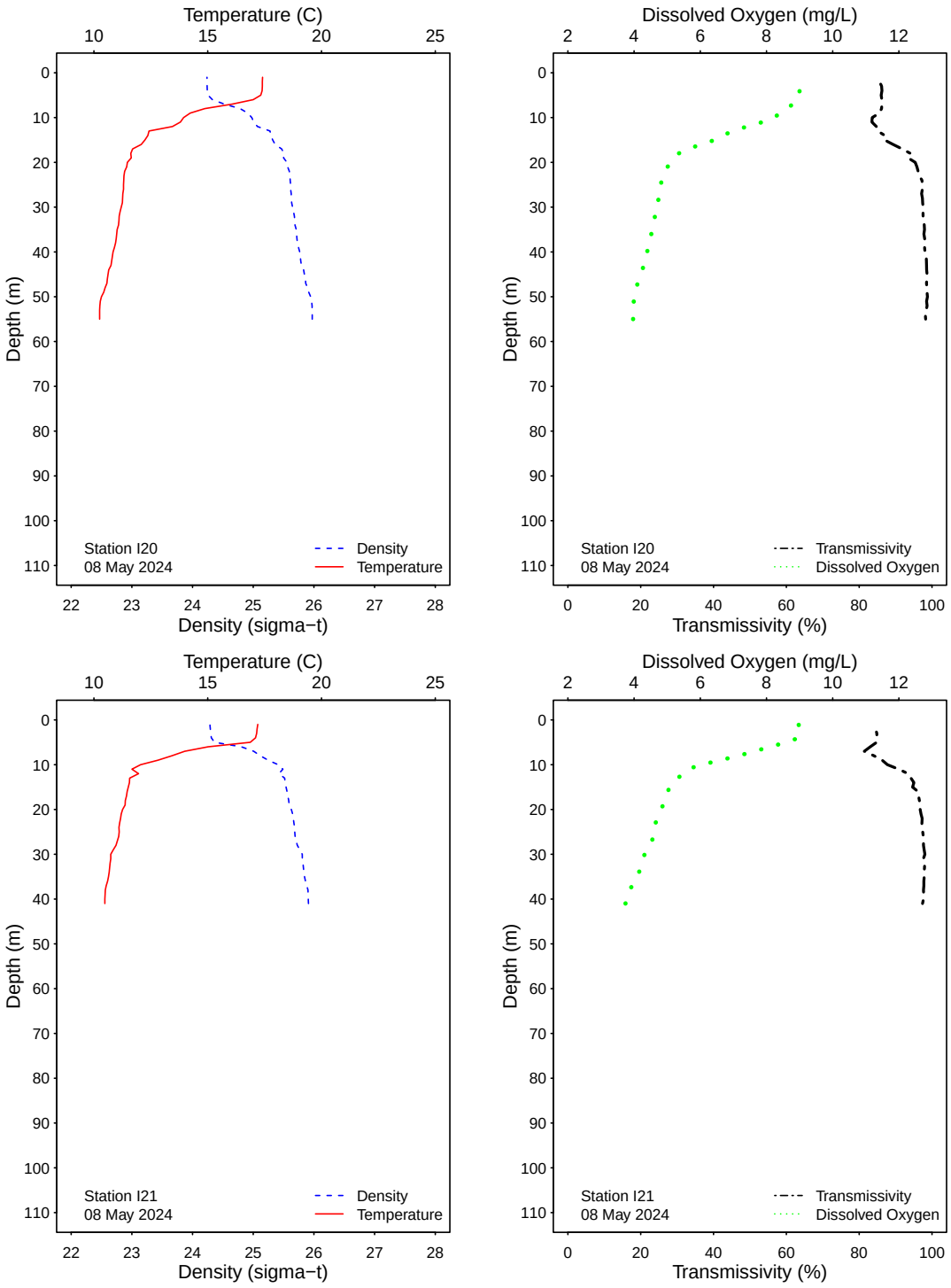

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

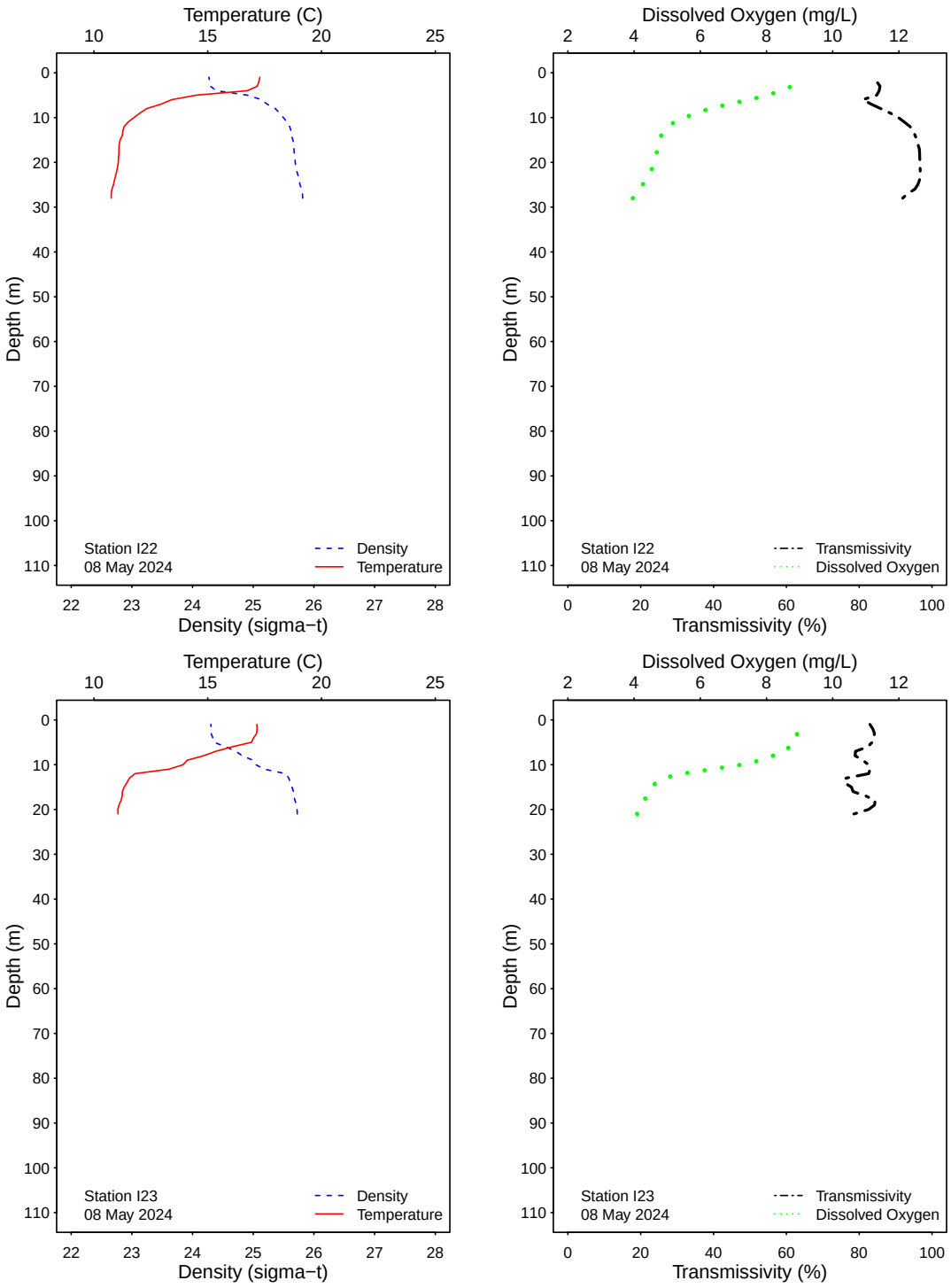

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

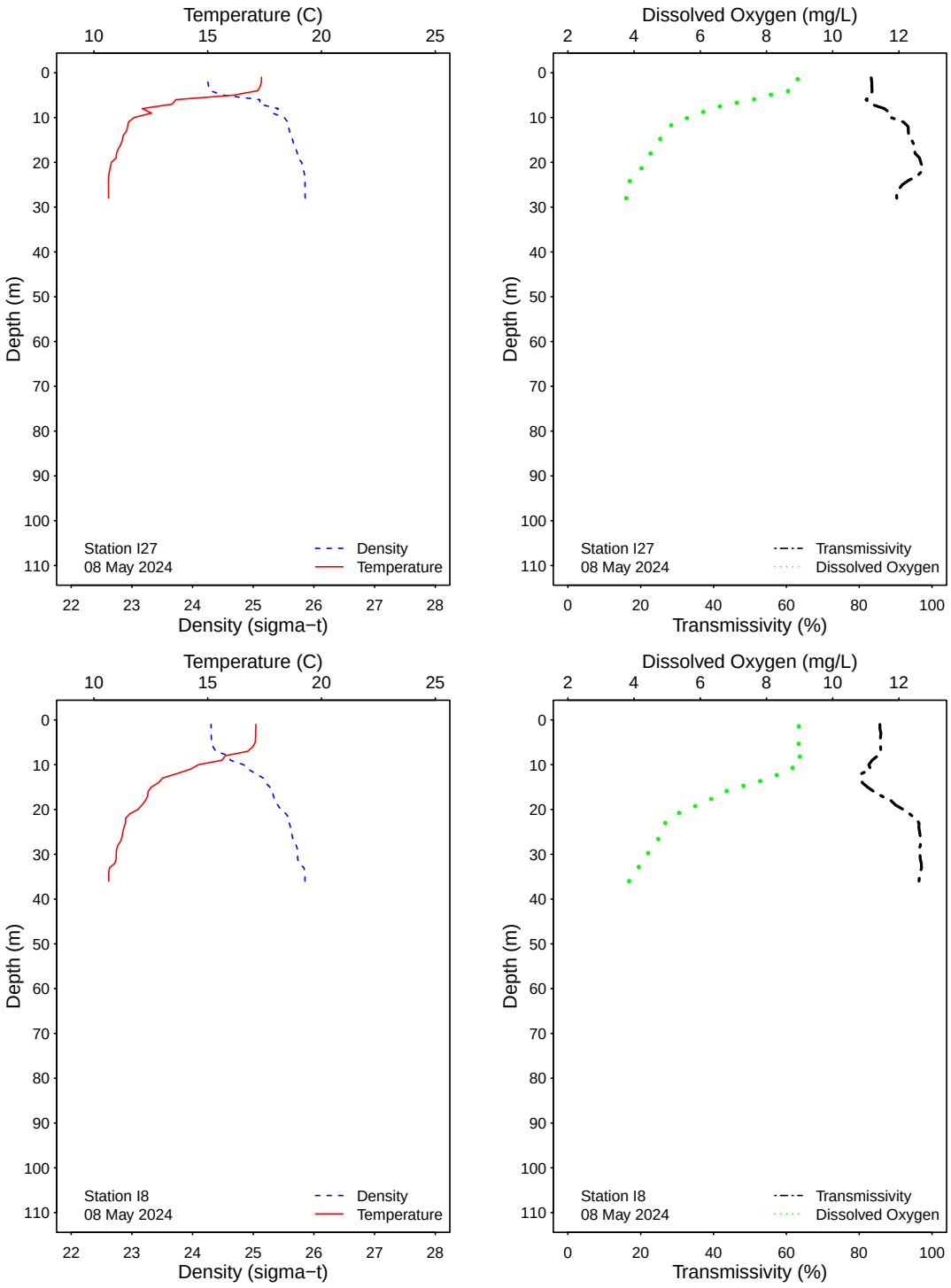

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

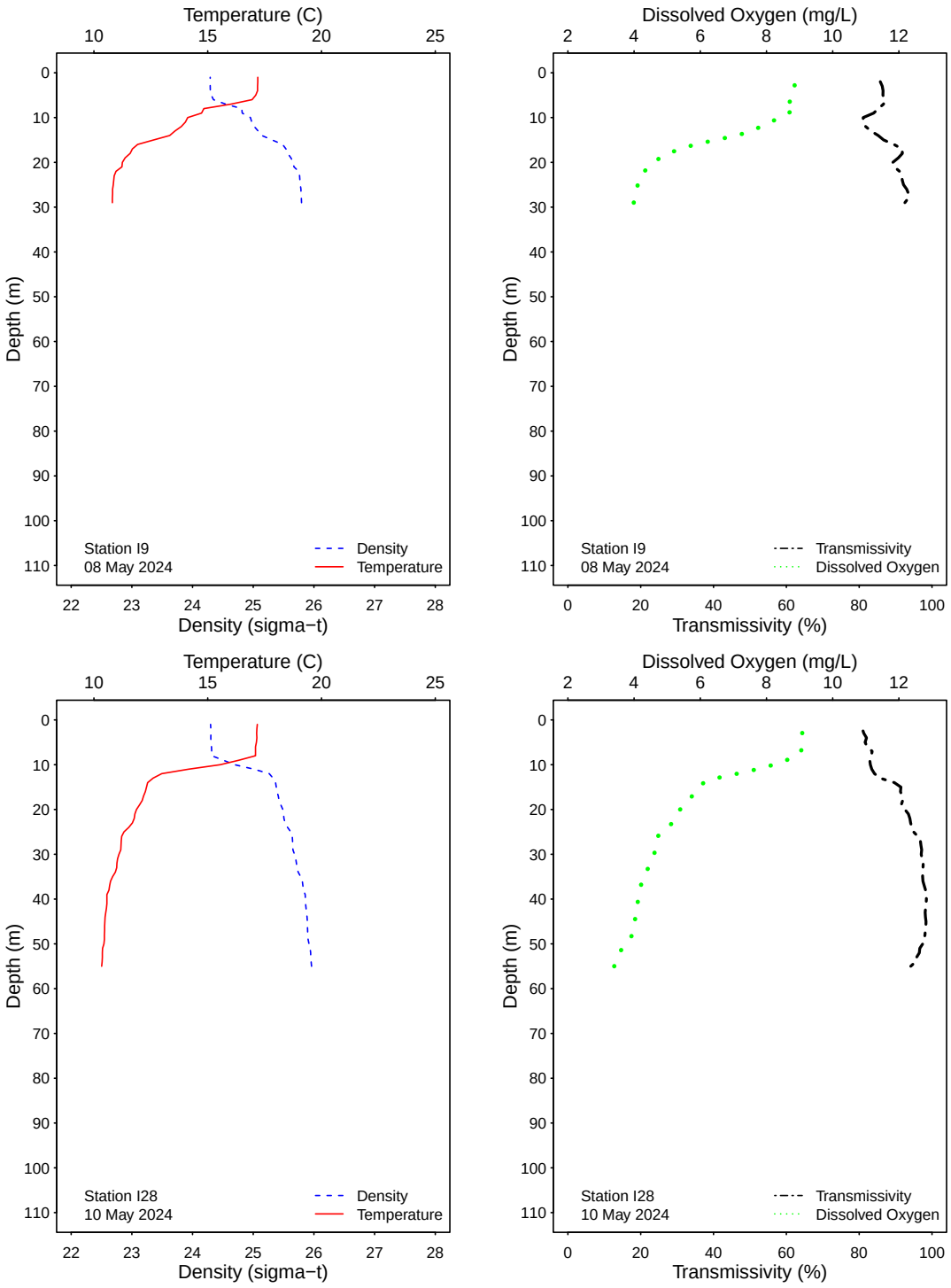

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

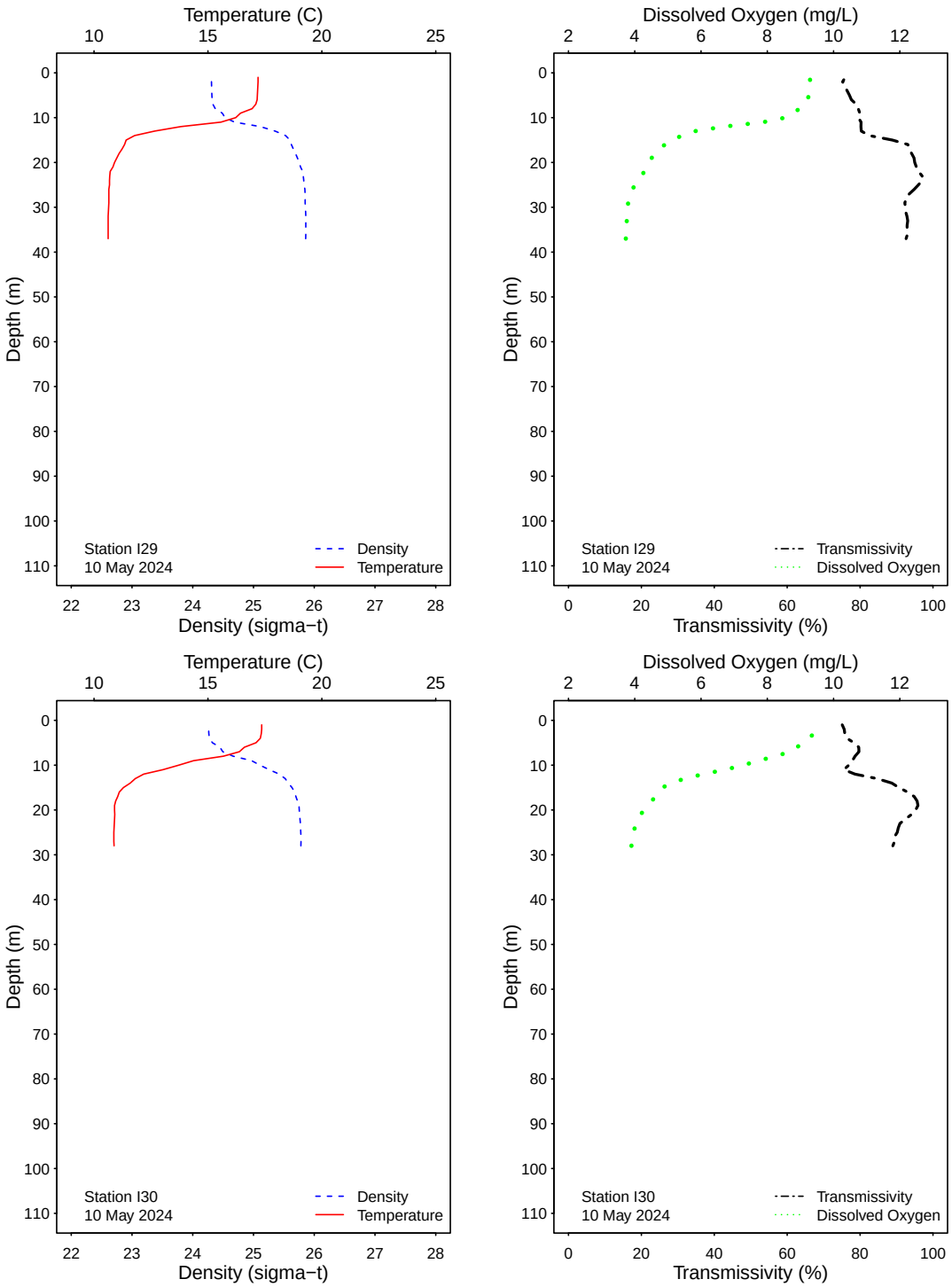

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

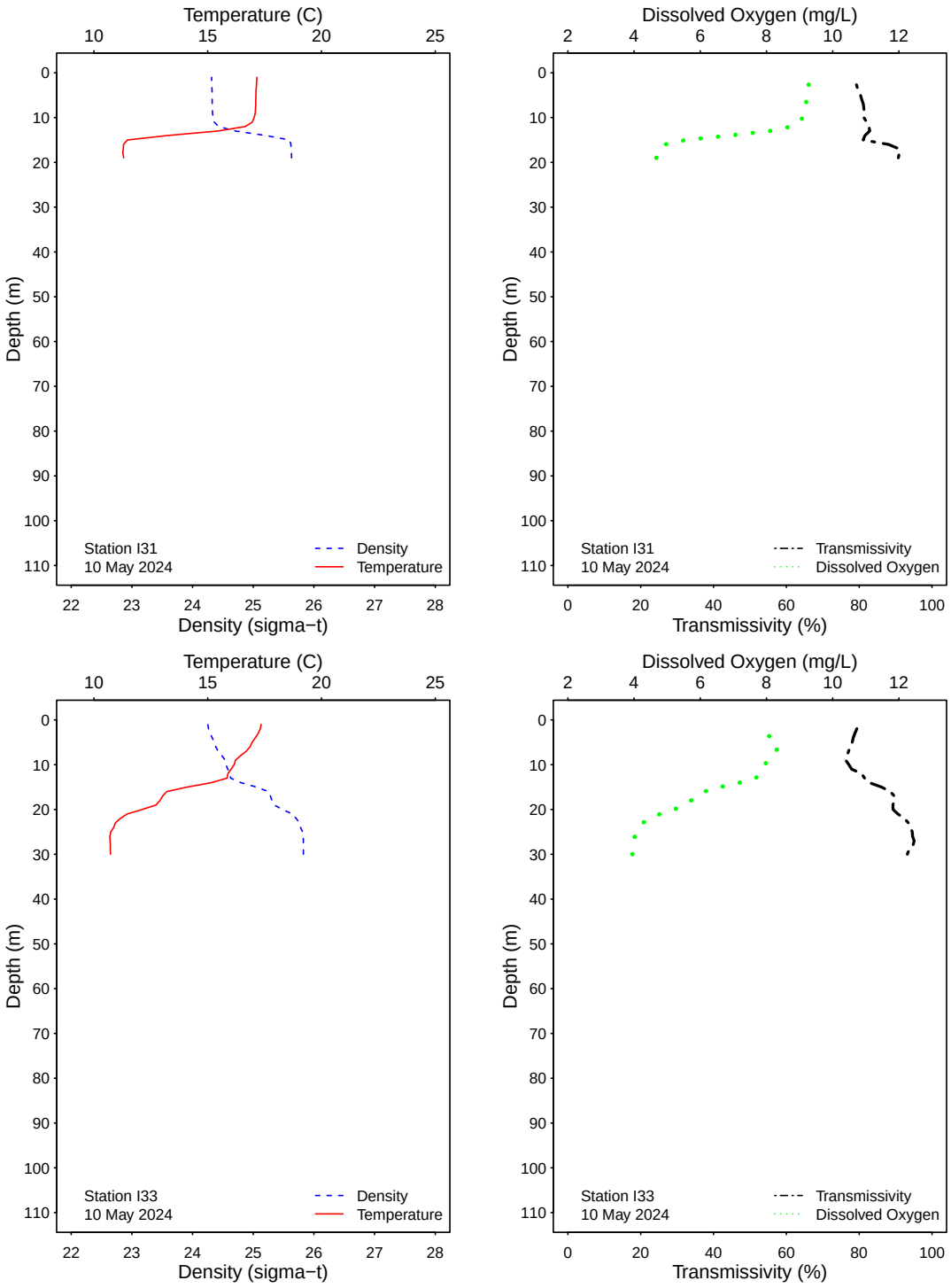

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

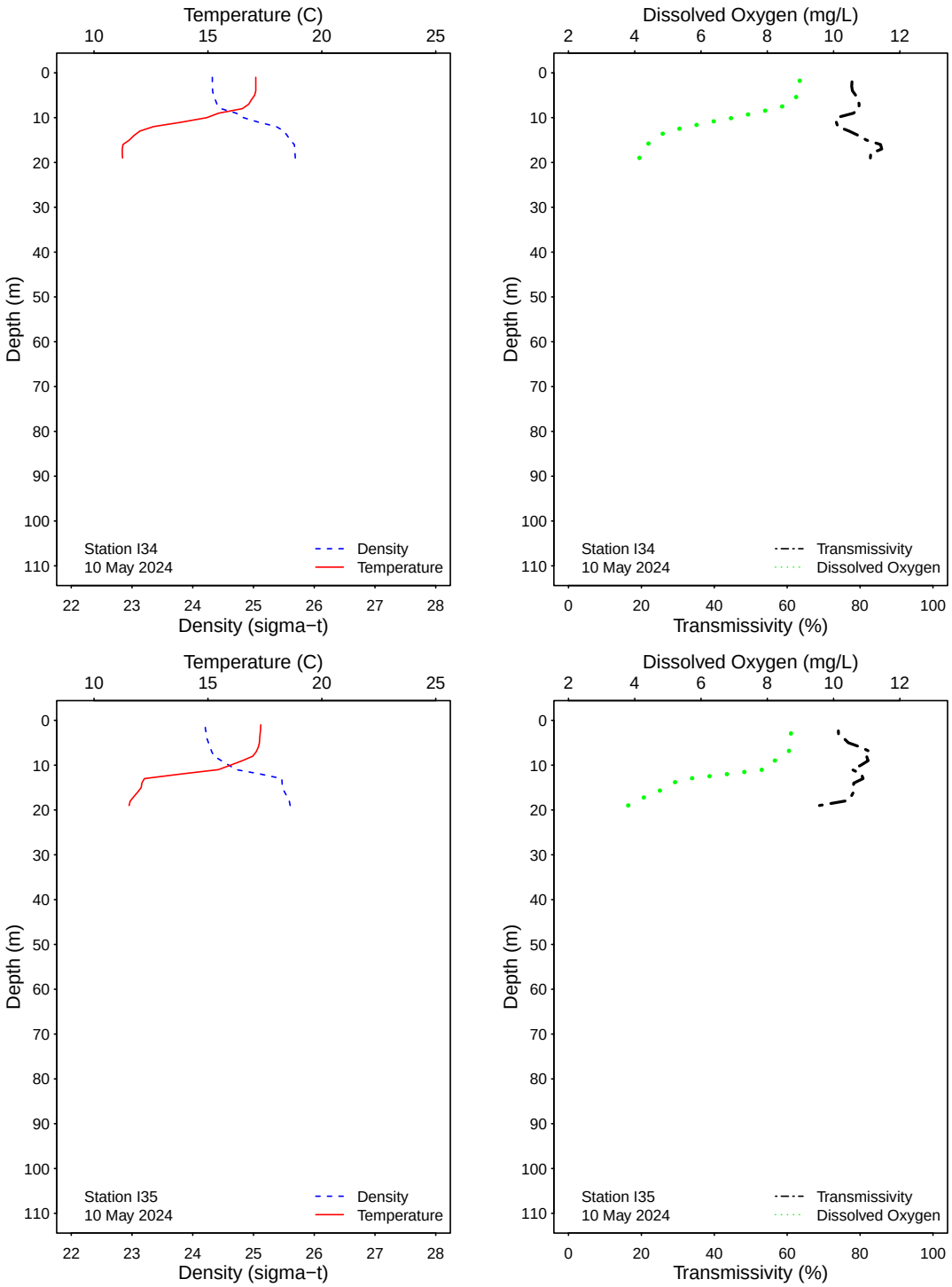

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

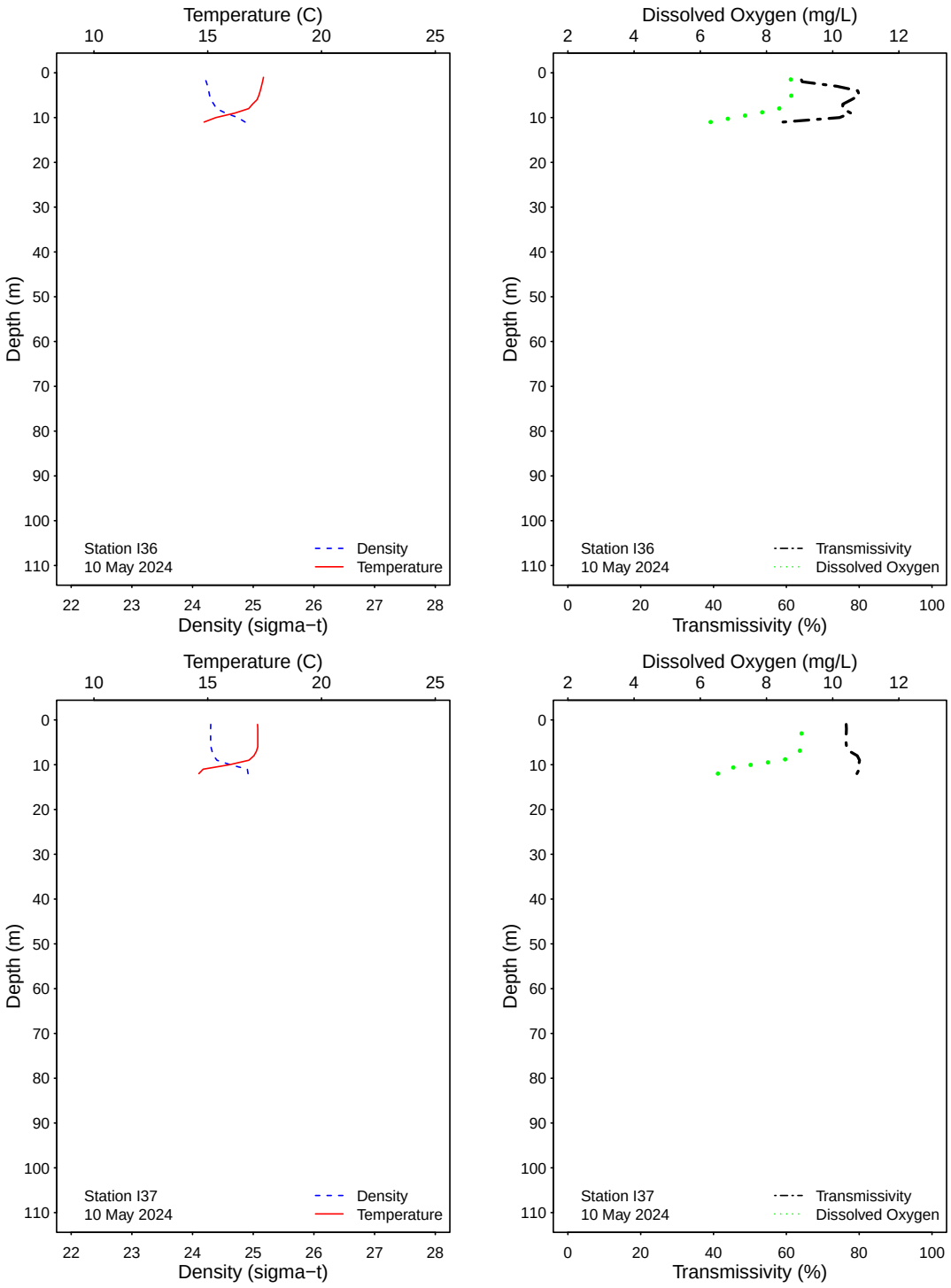

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

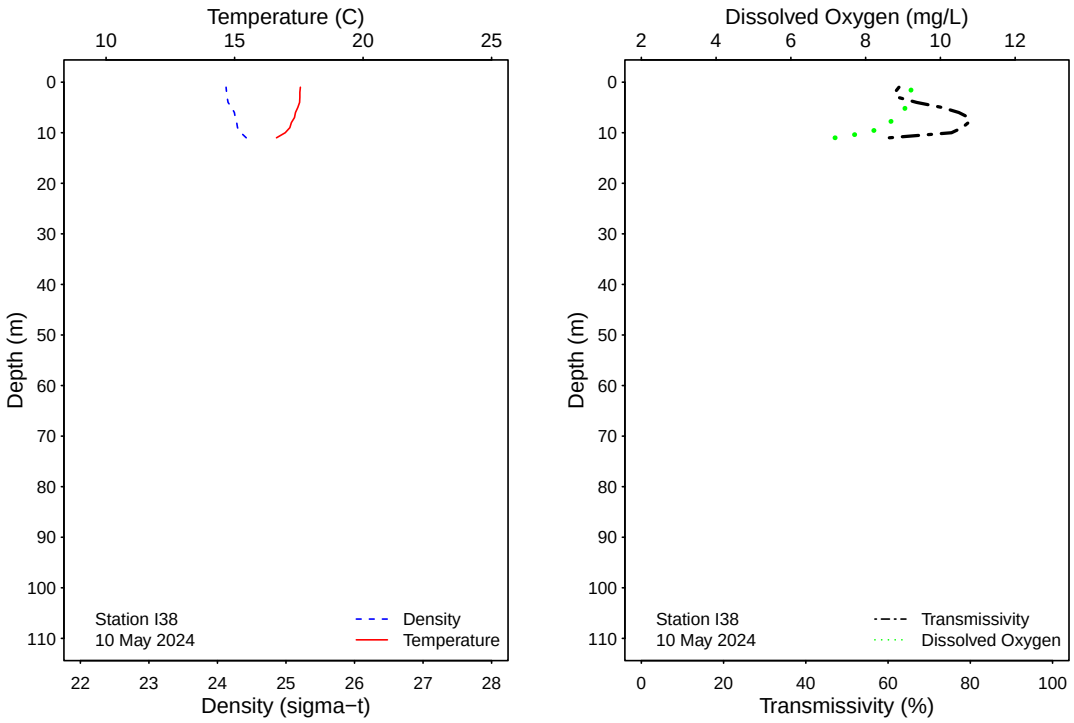

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

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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	07 May 2024	18	KA,KT,JF/KA	LAB DUPLICATE	10	4	2
I9	08 May 2024	27	KA,JF/KT	LAB DUPLICATE	22	12	2
I8	08 May 2024	37	KA,JF/KT	LAB DUPLICATE	2	2	2
I12	08 May 2024	18	KT/KT	LAB DUPLICATE	540	76	20
I19	06 May 2024	6	JF,ADG,KA,KT	LAB DUPLICATE	16000	9000	2200
I19	13 May 2024	6	BS,KT,KA/KT	LAB DUPLICATE	260	34	82
I19	20 May 2024	6	KT,BS,JF,KA/	LAB DUPLICATE	5000	1400	120
I19	28 May 2024	6	JF	LAB DUPLICATE	320	22	100
I13	08 May 2024	18	KT/KT	LAB DUPLICATE	2	2	2
I16	08 May 2024	18	KT/KT	LAB DUPLICATE	130	26	8
I40	06 May 2024	6	JF,ADG,KA,KT	LAB DUPLICATE	200	18	6
I40	13 May 2024	6	BS,KT,KA/KT	LAB DUPLICATE	620	80	100
I40	20 May 2024	6	KT,BS,JF,KA/	LAB DUPLICATE	8400	2000	540
I40	28 May 2024	6	JF	LAB DUPLICATE	660	120	140
S12	07 May 2024		KT,KA/JF	LAB DUPLICATE	200	2	2
S12	07 May 2024		KT,KA/JF	FIELD DUPLICATE	200	2	2
S12	14 May 2024		KT,JF/KA	LAB DUPLICATE	80	46	46
S12	14 May 2024		KT,JF/KA	FIELD DUPLICATE	180	46	30
S12	21 May 2024		KA,JF/KT,KA	FIELD DUPLICATE	14000	3800	2200
S12	21 May 2024		KA,JF/KT,KA	LAB DUPLICATE	16000	4600	2000
S12	28 May 2024		JF	LAB DUPLICATE	20	2	12
S12	28 May 2024		KA	FIELD DUPLICATE	20	2	4
I30	10 May 2024	27	JF,KA,BS/KT	LAB DUPLICATE	2	2	14
I36	10 May 2024	11	JF,KA,BS/KT	LAB DUPLICATE	60	8	2
I36	10 May 2024	11	JF,KA,BS/KT	FIELD DUPLICATE	80	6	2

ns = not sampled
ND = no data

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