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, 2025

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 2025 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 2025 Quality Assurance Report, which will be completed in March 2026.

SUMMARY OF RESULTS

- **Shoreline Water Quality Sampling**
  - Due to site access restrictions in Mexico, the South Bay shoreline sampling is typically carried out on the same day each week (i.e., Tuesday) to coordinate sampling between the Mexican and USA based stations. Seawater samples at the three shore stations located south of the USA/Mexico border (i.e., stations S0, S2 and S3) are presently collected by the Comisión Internacional de Límites y Aguas (CILA) and transported to the USIBWC for subsequent delivery to the City's Marine Microbiology Lab, while samples from the eight stations located in USA waters are sampled by City staff.
  - During 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 S5, and S11.
    - The single sample maximum (SSM) standard for fecal coliforms was exceeded at stations S5, S6, and S11.
    - 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 S5, S6, S10, S11, and S12.

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

        - The 30-day running median standard for total coliforms was exceeded at stations S5, S6, S10, S11, and S12.
        - The STV standard for total coliforms was exceeded at stations S4, S5, S6, S11, and S12.
    - A sewage-like odor was observed at stations S5, S6, S10, and S11 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, 12, 19, and 27.
    - During May, each of the seven kelp bed stations was out of compliance with the various 2019 Ocean Plan water contact standards on one or more days as follows:
        - The 6-week running geometric mean standard for *Enterococcus* was exceeded at station I19.
        - The 30-day running median standard for total coliforms was exceeded at stations I19, I24, and I40.
        - The STV standard for total coliforms was exceeded at stations I19, I24, I25, and I40.
    - Water column temperatures ranged from 11.42 to 19.61°C. The difference between surface and bottom waters ranged from 0.59 to 6.33°C.
    - Concentrations of chlorophyll *a* ranged from 0.41 to 48.96 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 13, 14, 15).
    - During May, each of the ten offshore stations located within State jurisdictional waters (i.e., I12, I14, I16, I18, I22, I23, I33, I36–I38) was in compliance with the various 2019 Ocean Plan water contact standards.
    - Water column temperatures ranged from 10.57 to 16.95°C at the offshore sites. The difference between surface and bottom waters ranged from 3.05 to 5.38°C.
    - Chlorophyll *a* concentrations ranged from 0.24 to 30.53 µg/L at the offshore sites.
    - Nothing of sewage origin was observed at SBOO offshore stations in May.
    - CDOM data are available upon request.

TABLES AND FIGURES

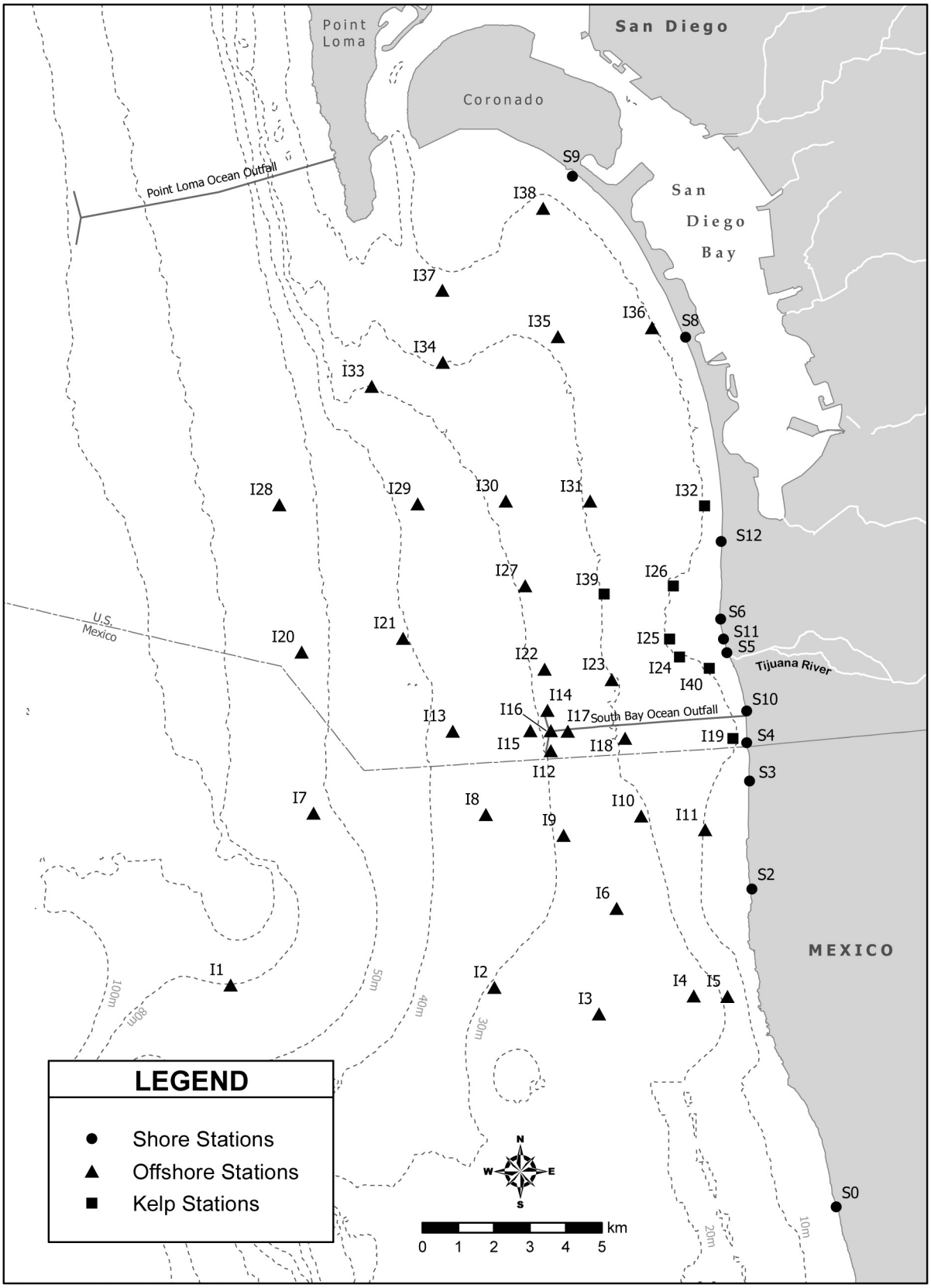

Figure 1.1 Station Map

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Shore Stations

Table 2.1

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 May 2025	*14	***4052**	*15	*5	*3	*23	*21	*28
02 May 2025	*14	***4052**	*15	*5	*3	*23	*21	*28
03 May 2025	*14	***4052**	*15	*5	*3	*23	*21	*28
04 May 2025	*14	***4052**	*15	*5	*3	*23	*21	*28
05 May 2025	*14	***4052**	*15	*5	*3	*23	*21	*28
06 May 2025	14	**5035**	28	4	4	16	59	31
07 May 2025	14	**5035**	28	4	4	16	59	31
08 May 2025	*5	***4052**	*55	*5	*4	*3	*116	*62
09 May 2025	*5	***4052**	*55	*5	*4	*3	*116	*62
10 May 2025	*5	***4052**	*55	*5	*4	*3	*116	*62
11 May 2025	*5	***4052**	*55	*5	*4	*3	*116	*62
12 May 2025	*5	***4052**	*55	*5	*4	*3	*116	*62
13 May 2025	6	**1866**	28	4	6	4	51	31
14 May 2025	*6	***1332**	*14	*3	*5	*4	*28	*20
15 May 2025	*6	***1332**	*14	*3	*5	*4	*28	*20
16 May 2025	*6	***1332**	*14	*3	*5	*4	*28	*20
17 May 2025	*6	***1332**	*14	*3	*5	*4	*28	*20
18 May 2025	*6	***1332**	*14	*3	*5	*4	*28	*20
19 May 2025	*6	***1332**	*14	*3	*5	*4	*28	*20
20 May 2025	5	**2067**	9	3	4	3	49	12
21 May 2025	5	**2067**	9	3	4	3	49	12
22 May 2025	*6	***1332**	*14	*3	*5	*4	*92	*20
23 May 2025	*6	***1332**	*14	*3	*5	*4	*92	*20
24 May 2025	*6	***1332**	*14	*3	*5	*4	*92	*20
25 May 2025	*6	***1332**	*14	*3	*5	*4	*92	*20
26 May 2025	*6	***1332**	*14	*3	*5	*4	*92	*20
27 May 2025	6	**1203**	25	3	4	4	146	17
28 May 2025	6	**1203**	25	3	4	4	146	17
29 May 2025	7	**2588**	69	2	5	6	**366**	7
30 May 2025	7	**2588**	69	2	5	6	**366**	7
31 May 2025	7	**2588**	69	2	5	6	**366**	7

* 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
06 May 2025	IC	**E**	IC	IC	IC	IC	**E**	IC
13 May 2025	IC	IC	IC	IC	IC	IC	IC	IC
20 May 2025	IC	**E**	IC	IC	IC	IC	**E**	IC
27 May 2025	IC	**E**	IC	IC	IC	IC	**E**	IC
29 May 2025	IC	**E**	**E**	IC	IC	IC	**E**	IC

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

Table 2.3

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 May 2025	**74**	**5459**	**37**	5	6	**238**	23	**35**
02 May 2025	**74**	**5459**	**37**	5	6	**238**	23	**35**
03 May 2025	**74**	**5459**	**37**	5	6	**238**	23	**35**
04 May 2025	**74**	**5459**	**37**	5	6	**238**	23	**35**
05 May 2025	**74**	**5459**	**37**	5	6	**238**	23	**35**
06 May 2025	**53**	**4808**	**76**	6	5	**96**	**74**	**53**
07 May 2025	**53**	**4808**	**76**	6	5	**96**	**74**	**53**
08 May 2025	**53**	**4808**	**76**	6	5	**96**	**74**	**53**
09 May 2025	**53**	**4808**	**76**	6	5	**96**	**74**	**53**
10 May 2025	**53**	**4808**	**76**	6	5	**96**	**74**	**53**
11 May 2025	**53**	**4808**	**76**	6	5	**96**	**74**	**53**
12 May 2025	**53**	**4808**	**76**	6	5	**96**	**74**	**53**
13 May 2025	29	**2388**	**34**	6	7	**49**	**40**	27
14 May 2025	29	**2388**	**34**	6	7	**49**	**40**	27
15 May 2025	29	**2388**	**34**	6	7	**49**	**40**	27
16 May 2025	29	**2388**	**34**	6	7	**49**	**40**	27
17 May 2025	29	**2388**	**34**	6	7	**49**	**40**	27
18 May 2025	29	**2388**	**34**	6	7	**49**	**40**	27
19 May 2025	29	**2388**	**34**	6	7	**49**	**40**	27
20 May 2025	10	**2388**	**50**	6	6	26	**169**	**68**
21 May 2025	10	**2388**	**50**	6	6	26	**169**	**68**
22 May 2025	10	**2388**	**50**	6	6	26	**169**	**68**
23 May 2025	10	**2388**	**50**	6	6	26	**169**	**68**
24 May 2025	10	**2388**	**50**	6	6	26	**169**	**68**
25 May 2025	10	**2388**	**50**	6	6	26	**169**	**68**
26 May 2025	14	**1999**	19	3	7	**37**	**108**	**49**
27 May 2025	14	**1737**	**46**	3	8	**32**	**205**	**42**
28 May 2025	14	**1737**	**46**	3	8	**32**	**205**	**42**
29 May 2025	14	**1737**	**46**	3	8	**32**	**205**	**42**
30 May 2025	14	**1737**	**46**	3	8	**32**	**205**	**42**
31 May 2025	14	**1737**	**46**	3	8	**32**	**205**	**42**

* 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	IC	**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 2025	*40	***16000**	*60	*30	*50	*49	*60	***710**
02 May 2025	*40	***16000**	*60	*30	*50	*49	*60	***710**
03 May 2025	*40	***16000**	*60	*30	*50	*49	*60	***710**
04 May 2025	*40	***16000**	*60	*30	*50	*49	*60	***710**
05 May 2025	*40	***16000**	*60	*30	*50	*49	*60	***710**
06 May 2025	60	**16000**	**100**	40	20	**80**	**100**	**540**
07 May 2025	60	**16000**	**100**	40	20	**80**	**100**	**540**
08 May 2025	*40	***16000**	***950**	*40	*20	*49	***410**	***970**
09 May 2025	*40	***16000**	***950**	*40	*20	*49	***410**	***970**
10 May 2025	*40	***16000**	***950**	*40	*20	*49	***410**	***970**
11 May 2025	*40	***16000**	***950**	*40	*20	*49	***410**	***970**
12 May 2025	*40	***16000**	***950**	*40	*20	*49	***410**	***970**
13 May 2025	20	**16000**	**100**	40	20	**80**	**100**	**540**
14 May 2025	*20	***8490**	*60	*30	*20	*59	*60	***280**
15 May 2025	*20	***8490**	*60	*30	*20	*59	*60	***280**
16 May 2025	*20	***8490**	*60	*30	*20	*59	*60	***280**
17 May 2025	*20	***8490**	*60	*30	*20	*59	*60	***280**
18 May 2025	*20	***8490**	*60	*30	*20	*59	*60	***280**
19 May 2025	*20	***8490**	*60	*30	*20	*59	*60	***280**
20 May 2025	20	**16000**	48	20	20	18	**100**	26
21 May 2025	20	**16000**	48	20	20	18	**100**	26
22 May 2025	*20	***8490**	***74**	*30	*20	*59	***8050**	***283**
23 May 2025	*20	***8490**	***74**	*30	*20	*59	***8050**	***283**
24 May 2025	*20	***8490**	***74**	*30	*20	*59	***8050**	***283**
25 May 2025	*20	***8490**	***74**	*30	*20	*59	***8050**	***283**
26 May 2025	*20	***8490**	***74**	*30	*20	*59	***8050**	***283**
27 May 2025	20	**5400**	**100**	20	20	**100**	**5400**	40
28 May 2025	20	**5400**	**100**	20	20	**100**	**5400**	40
29 May 2025	*20	***10700**	***1224**	*20	*20	***150**	***10700**	*33
30 May 2025	*20	***10700**	***1224**	*20	*20	***150**	***10700**	*33
31 May 2025	*20	***10700**	***1224**	*20	*20	***150**	***10700**	*33

* Median calculated using n<5

Table 2.6

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
May	**E**	**E**	**E**	IC	IC	IC	**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	06 May 2025	855	780	94	200e
S0	13 May 2025	850	>16000	10000e	7800
S0	20 May 2025	850	280e	2e	110
S0	27 May 2025	840	>16000	>12000	7800
S10	06 May 2025	1105	200e	4e	30e
S10	13 May 2025	1022	100e	12e	52
S10	20 May 2025	1113	4e	<2	140e
S10	27 May 2025	1042	200e	6e	14e
S10	29 May 2025	1047		12e	
S11	06 May 2025	1011	>16000	3400e	2200e
S11	13 May 2025	909	<20	<2	2e
S11	20 May 2025	1016	>16000	480	>12000
S11	27 May 2025	924	5400	920	5000
S11	29 May 2025	927		2200e	
S12	06 May 2025	857	540	46	68
S12	13 May 2025	745	<20	<2	<2
S12	20 May 2025	903	26e	<2	580
S12	27 May 2025	802	40e	10e	20e
S12	29 May 2025	801		8e	
S2	06 May 2025	955	>16000	800e	2600e
S2	13 May 2025	955	<200	16e	300e
S2	20 May 2025	950	<2	<2	<2
S2	27 May 2025	940	140e	16e	40e
S3	06 May 2025	925	3800e	540	780
S3	13 May 2025	930	200e	28e	660
S3	20 May 2025	925	8e	<2	2e
S3	27 May 2025	915	540	58	40e
S4	06 May 2025	1121	360e	16e	68
S4	13 May 2025	1054	20e	8e	110
S4	20 May 2025	1129	<20	<2	2e
S4	27 May 2025	1106	<20	8e	14e
S4	29 May 2025	1110		8e	
S5	06 May 2025	948	>16000	>12000	5600
S5	13 May 2025	837	380e	84	180e
S5	20 May 2025	1000	>16000	>12000	>12000
S5	27 May 2025	854	5400	800	860
S5	29 May 2025	859		>12000	
S6	06 May 2025	1022	3200e	380e	620
S6	13 May 2025	927	<20	2e	<2
S6	20 May 2025	1025	48	<2	20e
S6	27 May 2025	943	2400e	280e	3200e
S6	29 May 2025	948		3600e	
S8	06 May 2025	837	40e	2e	4e
S8	13 May 2025	725	<20	2e	4e
S8	20 May 2025	840	8e	<2	2e
S8	27 May 2025	740	<20	<2	2e

Station	Date	Time	Total	Fecal	Entero
S8	29 May 2025	737		<2	
S9	06 May 2025	820	<20	8e	2e
S9	13 May 2025	705	20e	20e	68
S9	20 May 2025	819	<20	<2	8e
S9	27 May 2025	718	<200	<2	12e
S9	29 May 2025	715		6e	

ns = not sampled
ND = no data

Table 2.8

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

Station	Date	Parameter	Value
S0	06 May 2025	Arrive Time	855
S0	06 May 2025	Wind Speed (kts)	0
S0	06 May 2025	Wind Dir	NE
S0	06 May 2025	Animal Life	Bird-10; Dog-2;
S0	06 May 2025	Floatables	
S0	06 May 2025	Current Direction	NE
S0	06 May 2025	Water Temp (C)	14
S0	06 May 2025	High Tide Time	
S0	06 May 2025	Low Tide Time	
S0	06 May 2025	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-2; 0.5 L/s water flowing from storm drain
S0	13 May 2025	Arrive Time	850
S0	13 May 2025	Wind Speed (kts)	0
S0	13 May 2025	Wind Dir	NE
S0	13 May 2025	Animal Life	Bird-20; Dog-2;
S0	13 May 2025	Floatables	
S0	13 May 2025	Current Direction	NE
S0	13 May 2025	Water Temp (C)	13
S0	13 May 2025	High Tide Time	
S0	13 May 2025	Low Tide Time	
S0	13 May 2025	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-5; 0.5 L/s water flowing from storm drain
S0	20 May 2025	Arrive Time	850
S0	20 May 2025	Wind Speed (kts)	0
S0	20 May 2025	Wind Dir	NE
S0	20 May 2025	Animal Life	Bird-10; Seal/Sea Lion-1;
S0	20 May 2025	Floatables	
S0	20 May 2025	Current Direction	N
S0	20 May 2025	Water Temp (C)	13
S0	20 May 2025	High Tide Time	
S0	20 May 2025	Low Tide Time	
S0	20 May 2025	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-3; 0.5 L/s water flowing from storm drain
S0	27 May 2025	Arrive Time	840
S0	27 May 2025	Wind Speed (kts)	0
S0	27 May 2025	Wind Dir	NE
S0	27 May 2025	Animal Life	Bird-10;
S0	27 May 2025	Floatables	
S0	27 May 2025	Current Direction	NE
S0	27 May 2025	Water Temp (C)	14
S0	27 May 2025	High Tide Time	
S0	27 May 2025	Low Tide Time	
S0	27 May 2025	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-4; 0.5 L/s water flowing from storm drain
S2	06 May 2025	Arrive Time	955
S2	06 May 2025	Wind Speed (kts)	0
S2	06 May 2025	Wind Dir	NE
S2	06 May 2025	Animal Life	Bird-10; Dog-4;
S2	06 May 2025	Floatables	
S2	06 May 2025	Current Direction	N
S2	06 May 2025	Water Temp (C)	14
S2	06 May 2025	High Tide Time	

Station	Date	Parameter	Value
S2	06 May 2025	Low Tide Time	
S2	06 May 2025	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-10
S2	13 May 2025	Arrive Time	955
S2	13 May 2025	Wind Speed (kts)	0
S2	13 May 2025	Wind Dir	NE
S2	13 May 2025	Animal Life	Bird-10; Dog-2;
S2	13 May 2025	Floatables	
S2	13 May 2025	Current Direction	N
S2	13 May 2025	Water Temp (C)	13
S2	13 May 2025	High Tide Time	
S2	13 May 2025	Low Tide Time	
S2	13 May 2025	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-5; No flow from storm drain
S2	20 May 2025	Arrive Time	950
S2	20 May 2025	Wind Speed (kts)	0
S2	20 May 2025	Wind Dir	NE
S2	20 May 2025	Animal Life	Bird-10; Dog-2;
S2	20 May 2025	Floatables	
S2	20 May 2025	Current Direction	N
S2	20 May 2025	Water Temp (C)	13
S2	20 May 2025	High Tide Time	
S2	20 May 2025	Low Tide Time	
S2	20 May 2025	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-5; No flow from storm drain
S2	27 May 2025	Arrive Time	940
S2	27 May 2025	Wind Speed (kts)	0
S2	27 May 2025	Wind Dir	NE
S2	27 May 2025	Animal Life	Bird-10;
S2	27 May 2025	Floatables	
S2	27 May 2025	Current Direction	NE
S2	27 May 2025	Water Temp (C)	14
S2	27 May 2025	High Tide Time	
S2	27 May 2025	Low Tide Time	
S2	27 May 2025	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-10; No flow from storm drain
S3	06 May 2025	Arrive Time	925
S3	06 May 2025	Wind Speed (kts)	0
S3	06 May 2025	Wind Dir	NE
S3	06 May 2025	Animal Life	Bird-10; Dog-2;
S3	06 May 2025	Floatables	
S3	06 May 2025	Current Direction	NE
S3	06 May 2025	Water Temp (C)	14
S3	06 May 2025	High Tide Time	
S3	06 May 2025	Low Tide Time	
S3	06 May 2025	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-5; No flow from storm drain
S3	13 May 2025	Arrive Time	930
S3	13 May 2025	Wind Speed (kts)	0
S3	13 May 2025	Wind Dir	NE
S3	13 May 2025	Animal Life	Bird-10; Dog-4;
S3	13 May 2025	Floatables	
S3	13 May 2025	Current Direction	NE
S3	13 May 2025	Water Temp (C)	13
S3	13 May 2025	High Tide Time	
S3	13 May 2025	Low Tide Time	

Station	Date	Parameter	Value
S3	13 May 2025	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-10; No flow from storm drain
S3	20 May 2025	Arrive Time	925
S3	20 May 2025	Wind Speed (kts)	0
S3	20 May 2025	Wind Dir	NE
S3	20 May 2025	Animal Life	Bird-5;
S3	20 May 2025	Floatables	
S3	20 May 2025	Current Direction	N
S3	20 May 2025	Water Temp (C)	13
S3	20 May 2025	High Tide Time	
S3	20 May 2025	Low Tide Time	
S3	20 May 2025	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-3; No flow from storm drain
S3	27 May 2025	Arrive Time	915
S3	27 May 2025	Wind Speed (kts)	0
S3	27 May 2025	Wind Dir	NE
S3	27 May 2025	Animal Life	Bird-10;
S3	27 May 2025	Floatables	
S3	27 May 2025	Current Direction	NE
S3	27 May 2025	Water Temp (C)	14
S3	27 May 2025	High Tide Time	
S3	27 May 2025	Low Tide Time	
S3	27 May 2025	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-10; No flow from storm drain
S4	06 May 2025	Arrive Time	1121
S4	06 May 2025	Wind Speed (kts)	8.1
S4	06 May 2025	Wind Dir	SW
S4	06 May 2025	Animal Life	
S4	06 May 2025	Floatables	
S4	06 May 2025	Current Direction	S
S4	06 May 2025	Water Temp (C)	16.8
S4	06 May 2025	High Tide Time	
S4	06 May 2025	Low Tide Time	
S4	06 May 2025	Comments	Water clear; Trash-5; Kelp;Seagrass;Debris
S4	13 May 2025	Arrive Time	1054
S4	13 May 2025	Wind Speed (kts)	4.9
S4	13 May 2025	Wind Dir	W
S4	13 May 2025	Animal Life	
S4	13 May 2025	Floatables	
S4	13 May 2025	Current Direction	E
S4	13 May 2025	Water Temp (C)	16.6
S4	13 May 2025	High Tide Time	
S4	13 May 2025	Low Tide Time	
S4	13 May 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S4	20 May 2025	Arrive Time	1129
S4	20 May 2025	Wind Speed (kts)	3.1
S4	20 May 2025	Wind Dir	W
S4	20 May 2025	Animal Life	
S4	20 May 2025	Floatables	
S4	20 May 2025	Current Direction	S
S4	20 May 2025	Water Temp (C)	19.4
S4	20 May 2025	High Tide Time	
S4	20 May 2025	Low Tide Time	
S4	20 May 2025	Comments	Water clear; Trash-3; Kelp;Seagrass
S4	27 May 2025	Arrive Time	1106

Station	Date	Parameter	Value
S4	27 May 2025	Wind Speed (kts)	6.6
S4	27 May 2025	Wind Dir	W
S4	27 May 2025	Animal Life	
S4	27 May 2025	Floatables	Foam
S4	27 May 2025	Current Direction	E
S4	27 May 2025	Water Temp (C)	17.4
S4	27 May 2025	High Tide Time	
S4	27 May 2025	Low Tide Time	
S4	27 May 2025	Comments	Water clear; Trash-2; Seagrass;Debris;Kelp
S4	29 May 2025	Arrive Time	1110
S4	29 May 2025	Wind Speed (kts)	4.5
S4	29 May 2025	Wind Dir	NW
S4	29 May 2025	Animal Life	Bird-20;
S4	29 May 2025	Floatables	Foam
S4	29 May 2025	Current Direction	E
S4	29 May 2025	Water Temp (C)	16.8
S4	29 May 2025	High Tide Time	
S4	29 May 2025	Low Tide Time	
S4	29 May 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S10	06 May 2025	Arrive Time	1105
S10	06 May 2025	Wind Speed (kts)	7.7
S10	06 May 2025	Wind Dir	SW
S10	06 May 2025	Animal Life	
S10	06 May 2025	Floatables	Dead animals
S10	06 May 2025	Current Direction	S
S10	06 May 2025	Water Temp (C)	16.6
S10	06 May 2025	High Tide Time	
S10	06 May 2025	Low Tide Time	
S10	06 May 2025	Comments	Water clear; Trash-5; Kelp;Seagrass;Debris; Sewage-like odor
S10	13 May 2025	Arrive Time	1022
S10	13 May 2025	Wind Speed (kts)	3.4
S10	13 May 2025	Wind Dir	W
S10	13 May 2025	Animal Life	
S10	13 May 2025	Floatables	
S10	13 May 2025	Current Direction	E
S10	13 May 2025	Water Temp (C)	15.1
S10	13 May 2025	High Tide Time	
S10	13 May 2025	Low Tide Time	
S10	13 May 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S10	20 May 2025	Arrive Time	1113
S10	20 May 2025	Wind Speed (kts)	3.3
S10	20 May 2025	Wind Dir	W
S10	20 May 2025	Animal Life	
S10	20 May 2025	Floatables	
S10	20 May 2025	Current Direction	S
S10	20 May 2025	Water Temp (C)	18.7
S10	20 May 2025	High Tide Time	
S10	20 May 2025	Low Tide Time	
S10	20 May 2025	Comments	Water clear; Trash-1; Kelp;Seagrass
S10	27 May 2025	Arrive Time	1042
S10	27 May 2025	Wind Speed (kts)	5.6
S10	27 May 2025	Wind Dir	NW
S10	27 May 2025	Animal Life	
S10	27 May 2025	Floatables	Foam
S10	27 May 2025	Current Direction	E

Station	Date	Parameter	Value
S10	27 May 2025	Water Temp (C)	17.4
S10	27 May 2025	High Tide Time	
S10	27 May 2025	Low Tide Time	
S10	27 May 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S10	29 May 2025	Arrive Time	1047
S10	29 May 2025	Wind Speed (kts)	5.5
S10	29 May 2025	Wind Dir	NW
S10	29 May 2025	Animal Life	
S10	29 May 2025	Floatables	Foam
S10	29 May 2025	Current Direction	E
S10	29 May 2025	Water Temp (C)	17
S10	29 May 2025	High Tide Time	
S10	29 May 2025	Low Tide Time	
S10	29 May 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S5	06 May 2025	Arrive Time	948
S5	06 May 2025	Wind Speed (kts)	3.2
S5	06 May 2025	Wind Dir	SW
S5	06 May 2025	Animal Life	
S5	06 May 2025	Floatables	Dead animals
S5	06 May 2025	Current Direction	S
S5	06 May 2025	Water Temp (C)	15.6
S5	06 May 2025	High Tide Time	
S5	06 May 2025	Low Tide Time	
S5	06 May 2025	Comments	Water clear; Trash-4; Kelp;Seagrass;Debris; Sewage-like odor
S5	13 May 2025	Arrive Time	837
S5	13 May 2025	Wind Speed (kts)	6
S5	13 May 2025	Wind Dir	W
S5	13 May 2025	Animal Life	
S5	13 May 2025	Floatables	Plastic bag
S5	13 May 2025	Current Direction	E
S5	13 May 2025	Water Temp (C)	16.1
S5	13 May 2025	High Tide Time	
S5	13 May 2025	Low Tide Time	
S5	13 May 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S5	20 May 2025	Arrive Time	1000
S5	20 May 2025	Wind Speed (kts)	4.1
S5	20 May 2025	Wind Dir	W
S5	20 May 2025	Animal Life	
S5	20 May 2025	Floatables	Foam
S5	20 May 2025	Current Direction	S
S5	20 May 2025	Water Temp (C)	20.9
S5	20 May 2025	High Tide Time	
S5	20 May 2025	Low Tide Time	
S5	20 May 2025	Comments	Water clear; Trash-2; Seagrass;Kelp
S5	27 May 2025	Arrive Time	854
S5	27 May 2025	Wind Speed (kts)	7.1
S5	27 May 2025	Wind Dir	NW
S5	27 May 2025	Animal Life	Bird-10;
S5	27 May 2025	Floatables	
S5	27 May 2025	Current Direction	E
S5	27 May 2025	Water Temp (C)	17.2
S5	27 May 2025	High Tide Time	
S5	27 May 2025	Low Tide Time	
S5	27 May 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris

Station	Date	Parameter	Value
S5	29 May 2025	Arrive Time	859
S5	29 May 2025	Wind Speed (kts)	4.4
S5	29 May 2025	Wind Dir	W
S5	29 May 2025	Animal Life	
S5	29 May 2025	Floatables	Foam
S5	29 May 2025	Current Direction	E
S5	29 May 2025	Water Temp (C)	17.5
S5	29 May 2025	High Tide Time	
S5	29 May 2025	Low Tide Time	
S5	29 May 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris; Sewage-like odor
S11	06 May 2025	Arrive Time	1011
S11	06 May 2025	Wind Speed (kts)	4
S11	06 May 2025	Wind Dir	SW
S11	06 May 2025	Animal Life	
S11	06 May 2025	Floatables	Dead animals
S11	06 May 2025	Current Direction	S
S11	06 May 2025	Water Temp (C)	15.4
S11	06 May 2025	High Tide Time	
S11	06 May 2025	Low Tide Time	
S11	06 May 2025	Comments	Water clear; Trash-5; Kelp;Seagrass;Debris; Sewage-like odor
S11	13 May 2025	Arrive Time	909
S11	13 May 2025	Wind Speed (kts)	6
S11	13 May 2025	Wind Dir	W
S11	13 May 2025	Animal Life	
S11	13 May 2025	Floatables	
S11	13 May 2025	Current Direction	E
S11	13 May 2025	Water Temp (C)	16.8
S11	13 May 2025	High Tide Time	
S11	13 May 2025	Low Tide Time	
S11	13 May 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S11	20 May 2025	Arrive Time	1016
S11	20 May 2025	Wind Speed (kts)	6
S11	20 May 2025	Wind Dir	W
S11	20 May 2025	Animal Life	
S11	20 May 2025	Floatables	
S11	20 May 2025	Current Direction	S
S11	20 May 2025	Water Temp (C)	19.3
S11	20 May 2025	High Tide Time	
S11	20 May 2025	Low Tide Time	
S11	20 May 2025	Comments	Water clear; Trash-2; Kelp;Seagrass
S11	27 May 2025	Arrive Time	924
S11	27 May 2025	Wind Speed (kts)	6.1
S11	27 May 2025	Wind Dir	NW
S11	27 May 2025	Animal Life	
S11	27 May 2025	Floatables	Foam
S11	27 May 2025	Current Direction	E
S11	27 May 2025	Water Temp (C)	17.1
S11	27 May 2025	High Tide Time	
S11	27 May 2025	Low Tide Time	
S11	27 May 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S11	29 May 2025	Arrive Time	927
S11	29 May 2025	Wind Speed (kts)	2.4
S11	29 May 2025	Wind Dir	SW
S11	29 May 2025	Animal Life	

Station	Date	Parameter	Value
S11	29 May 2025	Floatables	
S11	29 May 2025	Current Direction	E
S11	29 May 2025	Water Temp (C)	18.4
S11	29 May 2025	High Tide Time	
S11	29 May 2025	Low Tide Time	
S11	29 May 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S6	06 May 2025	Arrive Time	1022
S6	06 May 2025	Wind Speed (kts)	4.6
S6	06 May 2025	Wind Dir	SW
S6	06 May 2025	Animal Life	
S6	06 May 2025	Floatables	
S6	06 May 2025	Current Direction	S
S6	06 May 2025	Water Temp (C)	15.9
S6	06 May 2025	High Tide Time	
S6	06 May 2025	Low Tide Time	
S6	06 May 2025	Comments	Water clear; Trash-4; Kelp;Seagrass;Debris; Sewage-like odor
S6	13 May 2025	Arrive Time	927
S6	13 May 2025	Wind Speed (kts)	5.5
S6	13 May 2025	Wind Dir	W
S6	13 May 2025	Animal Life	Bird-1;
S6	13 May 2025	Floatables	
S6	13 May 2025	Current Direction	E
S6	13 May 2025	Water Temp (C)	17.2
S6	13 May 2025	High Tide Time	
S6	13 May 2025	Low Tide Time	
S6	13 May 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris
S6	20 May 2025	Arrive Time	1025
S6	20 May 2025	Wind Speed (kts)	4.1
S6	20 May 2025	Wind Dir	W
S6	20 May 2025	Animal Life	
S6	20 May 2025	Floatables	
S6	20 May 2025	Current Direction	S
S6	20 May 2025	Water Temp (C)	19.9
S6	20 May 2025	High Tide Time	
S6	20 May 2025	Low Tide Time	
S6	20 May 2025	Comments	Water clear; Trash-2; Kelp;Seagrass
S6	27 May 2025	Arrive Time	943
S6	27 May 2025	Wind Speed (kts)	6.5
S6	27 May 2025	Wind Dir	NW
S6	27 May 2025	Animal Life	
S6	27 May 2025	Floatables	Foam
S6	27 May 2025	Current Direction	E
S6	27 May 2025	Water Temp (C)	17.4
S6	27 May 2025	High Tide Time	
S6	27 May 2025	Low Tide Time	
S6	27 May 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris
S6	29 May 2025	Arrive Time	948
S6	29 May 2025	Wind Speed (kts)	3.1
S6	29 May 2025	Wind Dir	W
S6	29 May 2025	Animal Life	
S6	29 May 2025	Floatables	Foam
S6	29 May 2025	Current Direction	E
S6	29 May 2025	Water Temp (C)	17.4
S6	29 May 2025	High Tide Time	
S6	29 May 2025	Low Tide Time	

Station	Date	Parameter	Value
S6	29 May 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris; Sewage-like odor
S12	06 May 2025	Arrive Time	857
S12	06 May 2025	Wind Speed (kts)	3
S12	06 May 2025	Wind Dir	S
S12	06 May 2025	Animal Life	
S12	06 May 2025	Floatables	
S12	06 May 2025	Current Direction	S
S12	06 May 2025	Water Temp (C)	14.9
S12	06 May 2025	High Tide Time	
S12	06 May 2025	Low Tide Time	
S12	06 May 2025	Comments	Water clear; Trash-4; Kelp;Seagrass;Debris
S12	13 May 2025	Arrive Time	745
S12	13 May 2025	Wind Speed (kts)	7.5
S12	13 May 2025	Wind Dir	W
S12	13 May 2025	Animal Life	
S12	13 May 2025	Floatables	Foam
S12	13 May 2025	Current Direction	E
S12	13 May 2025	Water Temp (C)	16.2
S12	13 May 2025	High Tide Time	
S12	13 May 2025	Low Tide Time	
S12	13 May 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S12	20 May 2025	Arrive Time	903
S12	20 May 2025	Wind Speed (kts)	3.2
S12	20 May 2025	Wind Dir	W
S12	20 May 2025	Animal Life	
S12	20 May 2025	Floatables	
S12	20 May 2025	Current Direction	S
S12	20 May 2025	Water Temp (C)	18.8
S12	20 May 2025	High Tide Time	
S12	20 May 2025	Low Tide Time	
S12	20 May 2025	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-5
S12	27 May 2025	Arrive Time	802
S12	27 May 2025	Wind Speed (kts)	5.9
S12	27 May 2025	Wind Dir	NW
S12	27 May 2025	Animal Life	Dolphin-3;
S12	27 May 2025	Floatables	Foam
S12	27 May 2025	Current Direction	E
S12	27 May 2025	Water Temp (C)	18.1
S12	27 May 2025	High Tide Time	
S12	27 May 2025	Low Tide Time	
S12	27 May 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S12	29 May 2025	Arrive Time	801
S12	29 May 2025	Wind Speed (kts)	3.5
S12	29 May 2025	Wind Dir	W
S12	29 May 2025	Animal Life	
S12	29 May 2025	Floatables	Foam
S12	29 May 2025	Current Direction	E
S12	29 May 2025	Water Temp (C)	17.3
S12	29 May 2025	High Tide Time	
S12	29 May 2025	Low Tide Time	
S12	29 May 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S8	06 May 2025	Arrive Time	837
S8	06 May 2025	Wind Speed (kts)	3

Station	Date	Parameter	Value
S8	06 May 2025	Wind Dir	SW
S8	06 May 2025	Animal Life	
S8	06 May 2025	Floatables	
S8	06 May 2025	Current Direction	S
S8	06 May 2025	Water Temp (C)	13.9
S8	06 May 2025	High Tide Time	
S8	06 May 2025	Low Tide Time	
S8	06 May 2025	Comments	Water clear; Trash-4; Kelp;Seagrass;Debris
S8	13 May 2025	Arrive Time	725
S8	13 May 2025	Wind Speed (kts)	8.5
S8	13 May 2025	Wind Dir	NW
S8	13 May 2025	Animal Life	
S8	13 May 2025	Floatables	Foam; Plastic
S8	13 May 2025	Current Direction	E
S8	13 May 2025	Water Temp (C)	15.9
S8	13 May 2025	High Tide Time	
S8	13 May 2025	Low Tide Time	
S8	13 May 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S8	20 May 2025	Arrive Time	840
S8	20 May 2025	Wind Speed (kts)	2.1
S8	20 May 2025	Wind Dir	W
S8	20 May 2025	Animal Life	
S8	20 May 2025	Floatables	
S8	20 May 2025	Current Direction	S
S8	20 May 2025	Water Temp (C)	17
S8	20 May 2025	High Tide Time	
S8	20 May 2025	Low Tide Time	
S8	20 May 2025	Comments	Water clear; Trash-1; Kelp;Seagrass
S8	27 May 2025	Arrive Time	740
S8	27 May 2025	Wind Speed (kts)	6.1
S8	27 May 2025	Wind Dir	NW
S8	27 May 2025	Animal Life	
S8	27 May 2025	Floatables	Foam
S8	27 May 2025	Current Direction	E
S8	27 May 2025	Water Temp (C)	17.9
S8	27 May 2025	High Tide Time	
S8	27 May 2025	Low Tide Time	
S8	27 May 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S8	29 May 2025	Arrive Time	737
S8	29 May 2025	Wind Speed (kts)	4.9
S8	29 May 2025	Wind Dir	W
S8	29 May 2025	Animal Life	
S8	29 May 2025	Floatables	Foam
S8	29 May 2025	Current Direction	E
S8	29 May 2025	Water Temp (C)	17.2
S8	29 May 2025	High Tide Time	
S8	29 May 2025	Low Tide Time	
S8	29 May 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S9	06 May 2025	Arrive Time	820
S9	06 May 2025	Wind Speed (kts)	3
S9	06 May 2025	Wind Dir	SW
S9	06 May 2025	Animal Life	
S9	06 May 2025	Floatables	
S9	06 May 2025	Current Direction	S
S9	06 May 2025	Water Temp (C)	14.4
S9	06 May 2025	High Tide Time	

Station	Date	Parameter	Value
S9	06 May 2025	Low Tide Time	
S9	06 May 2025	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S9	13 May 2025	Arrive Time	705
S9	13 May 2025	Wind Speed (kts)	8.6
S9	13 May 2025	Wind Dir	NW
S9	13 May 2025	Animal Life	
S9	13 May 2025	Floatables	Foam
S9	13 May 2025	Current Direction	E
S9	13 May 2025	Water Temp (C)	15
S9	13 May 2025	High Tide Time	
S9	13 May 2025	Low Tide Time	
S9	13 May 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S9	20 May 2025	Arrive Time	819
S9	20 May 2025	Wind Speed (kts)	1.8
S9	20 May 2025	Wind Dir	W
S9	20 May 2025	Animal Life	
S9	20 May 2025	Floatables	
S9	20 May 2025	Current Direction	S
S9	20 May 2025	Water Temp (C)	14.9
S9	20 May 2025	High Tide Time	
S9	20 May 2025	Low Tide Time	
S9	20 May 2025	Comments	Water clear; Fisherperson-1; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-1
S9	27 May 2025	Arrive Time	718
S9	27 May 2025	Wind Speed (kts)	0.6
S9	27 May 2025	Wind Dir	NW
S9	27 May 2025	Animal Life	Bird-5;
S9	27 May 2025	Floatables	Foam
S9	27 May 2025	Current Direction	E
S9	27 May 2025	Water Temp (C)	17.6
S9	27 May 2025	High Tide Time	
S9	27 May 2025	Low Tide Time	
S9	27 May 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S9	29 May 2025	Arrive Time	715
S9	29 May 2025	Wind Speed (kts)	3.7
S9	29 May 2025	Wind Dir	NW
S9	29 May 2025	Animal Life	Bird-2;
S9	29 May 2025	Floatables	Foam
S9	29 May 2025	Current Direction	E
S9	29 May 2025	Water Temp (C)	16.4
S9	29 May 2025	High Tide Time	
S9	29 May 2025	Low Tide Time	
S9	29 May 2025	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 2025	59	8	9	5	6	7	16
02 May 2025	59	8	9	5	6	7	16
03 May 2025	59	8	9	5	6	7	16
04 May 2025	*23	*3	*4	*4	*7	*3	*6
05 May 2025	*23	*3	*4	*4	*7	*3	*6
06 May 2025	25	4	5	5	6	3	8
07 May 2025	25	4	5	5	6	3	8
08 May 2025	*8	*4	*6	*6	*7	*3	*11
09 May 2025	*8	*4	*6	*6	*7	*3	*11
10 May 2025	*8	*4	*6	*6	*7	*3	*11
11 May 2025	*8	*4	*6	*6	*7	*3	*11
12 May 2025	6	4	5	5	6	3	8
13 May 2025	6	4	5	5	6	3	8
14 May 2025	6	4	5	5	6	3	8
15 May 2025	*5	*3	*3	*3	*5	*3	*5
16 May 2025	*5	*3	*3	*3	*5	*3	*5
17 May 2025	*5	*3	*3	*3	*5	*3	*5
18 May 2025	*5	*3	*3	*3	*5	*3	*5
19 May 2025	4	3	3	3	4	3	9
20 May 2025	4	3	3	3	4	3	9
21 May 2025	4	3	3	3	4	3	9
22 May 2025	*5	*4	*3	*3	*5	*2	*13
23 May 2025	*5	*4	*3	*3	*5	*2	*13
24 May 2025	*5	*4	*3	*3	*5	*2	*13
25 May 2025	*5	*4	*3	*3	*5	*2	*13
26 May 2025	*5	*4	*3	*3	*5	*2	*13
27 May 2025	6	3	3	3	5	2	10
28 May 2025	6	3	3	3	5	2	10
29 May 2025	*6	*4	*3	*3	*2	*2	*11
30 May 2025	*6	*4	*3	*3	*2	*2	*11
31 May 2025	*6	*4	*3	*3	*2	*2	*11

* 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 2025	IC	IC	IC	IC	IC	IC	IC
12 May 2025	IC	IC	IC	IC	IC	IC	IC
19 May 2025	IC	IC	IC	IC	IC	IC	IC
27 May 2025	IC	IC	IC	IC	IC	IC	IC

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

Table 3.3

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

Date	I19	I24	I25	I26	I32	I39	I40
01 May 2025	**174**	7	7	4	8	4	17
02 May 2025	**174**	7	7	4	8	4	17
03 May 2025	**174**	7	7	4	8	4	17
04 May 2025	**174**	7	7	4	8	4	17
05 May 2025	**174**	7	7	4	8	4	17
06 May 2025	**103**	8	7	4	6	3	15
07 May 2025	**103**	8	7	4	6	3	15
08 May 2025	**103**	8	7	4	6	3	15
09 May 2025	**103**	8	7	4	6	3	15
10 May 2025	**103**	8	7	4	6	3	15
11 May 2025	**103**	8	7	4	6	3	15
12 May 2025	**59**	6	6	3	5	3	12
13 May 2025	**59**	6	6	3	5	3	12
14 May 2025	**59**	6	6	3	5	3	12
15 May 2025	**59**	6	6	3	5	3	12
16 May 2025	**48**	6	4	4	6	2	10
17 May 2025	**48**	6	4	4	6	2	10
18 May 2025	**48**	6	4	4	6	2	10
19 May 2025	**32**	7	5	3	5	2	20
20 May 2025	15	8	6	4	6	2	29
21 May 2025	15	8	6	4	6	2	29
22 May 2025	15	8	6	4	6	2	29
23 May 2025	15	8	6	4	6	2	29
24 May 2025	15	8	6	4	6	2	29
25 May 2025	15	8	6	4	6	2	29
26 May 2025	15	8	6	4	6	2	29
27 May 2025	12	5	4	2	6	2	19
28 May 2025	12	5	4	2	6	2	19
29 May 2025	12	5	4	2	6	2	19
30 May 2025	12	5	4	2	6	2	19
31 May 2025	12	5	4	2	6	2	19

* 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	IC	IC	IC	IC	IC	IC	IC

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

Table 3.5

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

	I19			I24			I25			I26			I32			I39			I40		
Date	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
01 May 2025	60	**80**	20	2	2	40	2	2	12	4	6	10	2	20	20	2	4	6	2	20	36
02 May 2025	60	**80**	20	2	2	40	2	2	12	4	6	10	2	20	20	2	4	6	2	20	36
03 May 2025	60	**80**	20	2	2	40	2	2	12	4	6	10	2	20	20	2	4	6	2	20	36
04 May 2025	*58	*60	*20	*2	*2	*23	*2	*2	*7	*3	*4	*6	*11	*24	*13	*2	*7	*5	*2	*16	*28
05 May 2025	*58	*60	*20	*2	*2	*23	*2	*2	*7	*3	*4	*6	*11	*24	*13	*2	*7	*5	*2	*16	*28
06 May 2025	56	**80**	20	2	2	40	2	2	12	2	2	10	2	20	14	2	12	6	2	20	36
07 May 2025	56	**80**	20	2	2	40	2	2	12	2	2	10	2	20	14	2	12	6	2	20	36
08 May 2025	*32	*60	*20	*2	***81**	*40	*2	*61	*48	*2	*2	*20	*11	*15	*18	*2	*13	*10	*2	*27	*58
09 May 2025	*32	*60	*20	*2	***81**	*40	*2	*61	*48	*2	*2	*20	*11	*15	*18	*2	*13	*10	*2	*27	*58
10 May 2025	*32	*60	*20	*2	***81**	*40	*2	*61	*48	*2	*2	*20	*11	*15	*18	*2	*13	*10	*2	*27	*58
11 May 2025	*32	*60	*20	*2	***81**	*40	*2	*61	*48	*2	*2	*20	*11	*15	*18	*2	*13	*10	*2	*27	*58
12 May 2025	8	40	20	2	4	40	2	2	12	2	2	20	2	2	22	2	12	4	2	20	36
13 May 2025	8	40	20	2	4	40	2	2	12	2	2	20	2	2	22	2	12	4	2	20	36
14 May 2025	8	40	20	2	4	40	2	2	12	2	2	20	2	2	22	2	12	4	2	20	36
15 May 2025	*5	*21	*18	*2	*3	*23	*2	*2	*10	*2	*2	*15	*2	*2	*19	*2	*8	*10	*2	*11	*50
16 May 2025	*5	*21	*18	*2	*3	*23	*2	*2	*10	*2	*2	*15	*2	*2	*19	*2	*8	*10	*2	*11	*50
17 May 2025	*5	*21	*18	*2	*3	*23	*2	*2	*10	*2	*2	*15	*2	*2	*19	*2	*8	*10	*2	*11	*50
18 May 2025	*5	*21	*18	*2	*3	*23	*2	*2	*10	*2	*2	*15	*2	*2	*19	*2	*8	*10	*2	*11	*50
19 May 2025	2	20	20	2	4	6	2	2	12	2	2	10	2	2	20	2	2	4	2	20	**80**
20 May 2025	2	20	20	2	4	6	2	2	12	2	2	10	2	2	20	2	2	4	2	20	**80**
21 May 2025	2	20	20	2	4	6	2	2	12	2	2	10	2	2	20	2	2	4	2	20	**80**
22 May 2025	*2	*30	*30	*2	*5	*23	*2	*21	*16	*2	*2	*15	*11	*11	*22	*2	*2	*3	*2	***80**	***80**
23 May 2025	*2	*30	*30	*2	*5	*23	*2	*21	*16	*2	*2	*15	*11	*11	*22	*2	*2	*3	*2	***80**	***80**
24 May 2025	*2	*30	*30	*2	*5	*23	*2	*21	*16	*2	*2	*15	*11	*11	*22	*2	*2	*3	*2	***80**	***80**
25 May 2025	*2	*30	*30	*2	*5	*23	*2	*21	*16	*2	*2	*15	*11	*11	*22	*2	*2	*3	*2	***80**	***80**
26 May 2025	*2	*30	*30	*2	*5	*23	*2	*21	*16	*2	*2	*15	*11	*11	*22	*2	*2	*3	*2	***80**	***80**
27 May 2025	2	40	20	2	6	20	2	20	20	2	2	20	20	20	20	2	2	2	2	**140**	**80**
28 May 2025	2	40	20	2	6	20	2	20	20	2	2	20	20	20	20	2	2	2	2	**140**	**80**
29 May 2025	*2	***120**	*30	*11	*13	*13	*2	*30	*20	*2	*2	*20	*11	*11	*20	*2	*2	*2	*11	***160**	*70
30 May 2025	*2	***120**	*30	*11	*13	*13	*2	*30	*20	*2	*2	*20	*11	*11	*20	*2	*2	*2	*11	***160**	*70
31 May 2025	*2	***120**	*30	*11	*13	*13	*2	*30	*20	*2	*2	*20	*11	*11	*20	*2	*2	*2	*11	***160**	*70

* Median calculated using n<5

Table 3.6

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

	I19			I24			I25			I26			I32			I39			I40		
Date	**2m**	**6m**	**11m**	**2m**	**6m**	**11m**	**2m**	**6m**	**9m**	**2m**	**6m**	**9m**	**2m**	**6m**	**9m**	**2m**	**12m**	**18m**	**2m**	**6m**	**9m**
May	IC	**E**	**E**	IC	**E**	**E**	IC	IC	**E**	IC	IC	IC	IC	IC	IC	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 2025	1156	2	<2	<2	2e
I19	06 May 2025	1156	6	460	30e	32e
I19	06 May 2025	1156	11	3000e	86	92
I19	12 May 2025	1054	2	<2	<2	<2
I19	12 May 2025	1054	6	<2	<2	<2
I19	12 May 2025	1054	11	4e	<2	2e
I19	19 May 2025	1045	2	2e	<2	<2
I19	19 May 2025	1045	6	<20	<2	<2
I19	19 May 2025	1045	11	40e	2e	4e
I19	27 May 2025	1032	2	20e	<2	<2
I19	27 May 2025	1032	6	220e	20e	18e
I19	27 May 2025	1032	11	<20	12e	4e
I24	06 May 2025	1217	2	<2	<2	<2
I24	06 May 2025	1217	6	400	22e	18e
I24	06 May 2025	1217	11	640	2e	38e
I24	12 May 2025	1115	2	<2	<2	<2
I24	12 May 2025	1115	6	4e	<2	<2
I24	12 May 2025	1115	11	6e	<2	2e
I24	19 May 2025	1107	2	<200	10e	60
I24	19 May 2025	1107	6	6e	2e	12e
I24	19 May 2025	1107	11	2e	2e	2e
I24	27 May 2025	1052	2	20e	<2	<2
I24	27 May 2025	1052	6	<20	<2	<2
I24	27 May 2025	1052	11	<20	4e	4e
I25	06 May 2025	1222	2	<2	<2	2e
I25	06 May 2025	1222	6	120e	18e	14e
I25	06 May 2025	1222	9	320e	6e	14e
I25	12 May 2025	1122	2	<2	<2	<2
I25	12 May 2025	1122	6	<2	<2	<2
I25	12 May 2025	1122	9	8e	<2	<2
I25	19 May 2025	1115	2	60e	2e	48
I25	19 May 2025	1115	6	40e	<2	6e
I25	19 May 2025	1115	9	<20	<2	6e
I25	27 May 2025	1059	2	<2	<2	<2
I25	27 May 2025	1059	6	<20	<2	<2
I25	27 May 2025	1059	9	20e	2e	<2
I26	06 May 2025	1232	2	<2	<2	<2
I26	06 May 2025	1232	6	2e	<2	<2
I26	06 May 2025	1232	9	36e	28e	6e

Station	Date	Time	Depth	Total	Fecal	Entero
I26	12 May 2025	1132	2	<2	<2	<2
I26	12 May 2025	1132	6	<2	<2	<2
I26	12 May 2025	1132	9	20e	<2	<2
I26	19 May 2025	1125	2	<2	<2	<2
I26	19 May 2025	1125	6	<2	<2	<2
I26	19 May 2025	1125	9	2e	<2	<2
I26	27 May 2025	1109	2	<20	<2	<2
I26	27 May 2025	1109	6	<20	<2	4e
I26	27 May 2025	1109	9	<20	<2	<2
I32	06 May 2025	1249	2	<2	<2	<2
I32	06 May 2025	1249	6	<2	<2	<2
I32	06 May 2025	1249	9	14e	2e	2e
I32	12 May 2025	1143	2	<2	<2	<2
I32	12 May 2025	1143	6	2e	<2	<2
I32	12 May 2025	1143	9	24e	2e	2e
I32	19 May 2025	1139	2	<20	<2	<2
I32	19 May 2025	1139	6	20e	<2	<2
I32	19 May 2025	1139	9	<20	<2	2e
I32	27 May 2025	1120	2	<20	<2	<2
I32	27 May 2025	1120	6	<200	4e	14e
I32	27 May 2025	1120	9	<20	<2	4e
I39	06 May 2025	1132	2	<2	<2	<2
I39	06 May 2025	1132	12	14e	<2	<2
I39	06 May 2025	1132	18	<20	<2	2e
I39	12 May 2025	1044	2	<2	<2	<2
I39	12 May 2025	1044	12	<2	<2	<2
I39	12 May 2025	1044	18	<2	<2	<2
I39	19 May 2025	1032	2	<2	<2	<2
I39	19 May 2025	1032	12	<2	<2	<2
I39	19 May 2025	1032	18	<2	<2	<2
I39	27 May 2025	1011	2	<2	<2	<2
I39	27 May 2025	1011	12	<2	2e	<2
I39	27 May 2025	1011	18	<2	<2	<2
I40	06 May 2025	1208	2	<2	<2	<2
I40	06 May 2025	1208	6	360e	28e	16e
I40	06 May 2025	1208	9	500	38e	36e
I40	12 May 2025	1105	2	<2	<2	<2
I40	12 May 2025	1105	6	<2	<2	2e
I40	12 May 2025	1105	9	20e	4e	4e
I40	19 May 2025	1057	2	1200e	220e	4200
I40	19 May 2025	1057	6	140e	10e	26e
I40	19 May 2025	1057	9	80e	10e	62
I40	27 May 2025	1044	2	20e	<2	6e
I40	27 May 2025	1044	6	180e	4e	100e
I40	27 May 2025	1044	9	60e	2e	6e

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 2025	Arrive Time	1156
I19	06 May 2025	Depart Time	1206
I19	06 May 2025	Air Temp (C)	19.1
I19	06 May 2025	Visibility (mi)	6
I19	06 May 2025	Wind Speed (kts)	9.5
I19	06 May 2025	Wind Dir	SW
I19	06 May 2025	Sea State	Calm
I19	06 May 2025	High Tide Time	1900
I19	06 May 2025	Low Tide Time	1224
I19	06 May 2025	Comments	
I19	12 May 2025	Arrive Time	1050
I19	12 May 2025	Depart Time	1054
I19	12 May 2025	Air Temp (C)	17.7
I19	12 May 2025	Visibility (mi)	4
I19	12 May 2025	Wind Speed (kts)	7.4
I19	12 May 2025	Wind Dir	SW
I19	12 May 2025	Sea State	Confused Swell
I19	12 May 2025	High Tide Time	2118
I19	12 May 2025	Low Tide Time	354
I19	12 May 2025	Comments	
I19	19 May 2025	Arrive Time	1045
I19	19 May 2025	Depart Time	1048
I19	19 May 2025	Air Temp (C)	18.9
I19	19 May 2025	Visibility (mi)	10
I19	19 May 2025	Wind Speed (kts)	3.9
I19	19 May 2025	Wind Dir	NW
I19	19 May 2025	Sea State	Regular Swell
I19	19 May 2025	High Tide Time	118
I19	19 May 2025	Low Tide Time	924
I19	19 May 2025	Comments	
I19	27 May 2025	Arrive Time	1032
I19	27 May 2025	Depart Time	1035
I19	27 May 2025	Air Temp (C)	18.8
I19	27 May 2025	Visibility (mi)	10
I19	27 May 2025	Wind Speed (kts)	5.1
I19	27 May 2025	Wind Dir	W
I19	27 May 2025	Sea State	Confused Swell
I19	27 May 2025	High Tide Time	2142
I19	27 May 2025	Low Tide Time	412
I19	27 May 2025	Comments	
I40	06 May 2025	Arrive Time	1208
I40	06 May 2025	Depart Time	1213
I40	06 May 2025	Air Temp (C)	17.6
I40	06 May 2025	Visibility (mi)	6
I40	06 May 2025	Wind Speed (kts)	7.5
I40	06 May 2025	Wind Dir	SW
I40	06 May 2025	Sea State	Calm
I40	06 May 2025	High Tide Time	1900
I40	06 May 2025	Low Tide Time	1224
I40	06 May 2025	Comments	
I40	12 May 2025	Arrive Time	1101

Station	Date	Parameter	Value
I40	12 May 2025	Depart Time	1105
I40	12 May 2025	Air Temp (C)	17.4
I40	12 May 2025	Visibility (mi)	4
I40	12 May 2025	Wind Speed (kts)	7.4
I40	12 May 2025	Wind Dir	SW
I40	12 May 2025	Sea State	Confused Swell
I40	12 May 2025	High Tide Time	2118
I40	12 May 2025	Low Tide Time	354
I40	12 May 2025	Comments	
I40	19 May 2025	Arrive Time	1057
I40	19 May 2025	Depart Time	1102
I40	19 May 2025	Air Temp (C)	18.6
I40	19 May 2025	Visibility (mi)	10
I40	19 May 2025	Wind Speed (kts)	5.8
I40	19 May 2025	Wind Dir	NW
I40	19 May 2025	Sea State	Regular Swell
I40	19 May 2025	High Tide Time	118
I40	19 May 2025	Low Tide Time	924
I40	19 May 2025	Comments	High CDOM - WET 3 seapoint 6; Sewage-like Odor
I40	27 May 2025	Arrive Time	1044
I40	27 May 2025	Depart Time	1046
I40	27 May 2025	Air Temp (C)	18.9
I40	27 May 2025	Visibility (mi)	10
I40	27 May 2025	Wind Speed (kts)	6.5
I40	27 May 2025	Wind Dir	W
I40	27 May 2025	Sea State	Confused Swell
I40	27 May 2025	High Tide Time	2142
I40	27 May 2025	Low Tide Time	412
I40	27 May 2025	Comments	
I24	06 May 2025	Arrive Time	1217
I24	06 May 2025	Depart Time	1221
I24	06 May 2025	Air Temp (C)	18
I24	06 May 2025	Visibility (mi)	6
I24	06 May 2025	Wind Speed (kts)	7.7
I24	06 May 2025	Wind Dir	SW
I24	06 May 2025	Sea State	Calm
I24	06 May 2025	High Tide Time	1900
I24	06 May 2025	Low Tide Time	1224
I24	06 May 2025	Comments	Could not get deeper than 8m due to low tide.
I24	12 May 2025	Arrive Time	1111
I24	12 May 2025	Depart Time	1115
I24	12 May 2025	Air Temp (C)	17.9
I24	12 May 2025	Visibility (mi)	4
I24	12 May 2025	Wind Speed (kts)	5.8
I24	12 May 2025	Wind Dir	SW
I24	12 May 2025	Sea State	Confused Swell
I24	12 May 2025	High Tide Time	2118
I24	12 May 2025	Low Tide Time	354
I24	12 May 2025	Comments	
I24	19 May 2025	Arrive Time	1107
I24	19 May 2025	Depart Time	1111
I24	19 May 2025	Air Temp (C)	18.7
I24	19 May 2025	Visibility (mi)	10
I24	19 May 2025	Wind Speed (kts)	9.5
I24	19 May 2025	Wind Dir	NW
I24	19 May 2025	Sea State	Regular Swell

Station	Date	Parameter	Value
I24	19 May 2025	High Tide Time	118
I24	19 May 2025	Low Tide Time	924
I24	19 May 2025	Comments	
I24	27 May 2025	Arrive Time	1052
I24	27 May 2025	Depart Time	1054
I24	27 May 2025	Air Temp (C)	19
I24	27 May 2025	Visibility (mi)	10
I24	27 May 2025	Wind Speed (kts)	8.5
I24	27 May 2025	Wind Dir	W
I24	27 May 2025	Sea State	Confused Swell
I24	27 May 2025	High Tide Time	2142
I24	27 May 2025	Low Tide Time	412
I24	27 May 2025	Comments	
I25	06 May 2025	Arrive Time	1222
I25	06 May 2025	Depart Time	1225
I25	06 May 2025	Air Temp (C)	17.8
I25	06 May 2025	Visibility (mi)	6
I25	06 May 2025	Wind Speed (kts)	7.8
I25	06 May 2025	Wind Dir	SW
I25	06 May 2025	Sea State	Calm
I25	06 May 2025	High Tide Time	1900
I25	06 May 2025	Low Tide Time	1224
I25	06 May 2025	Comments	Could not get deeper than 8m due to low tide.
I25	12 May 2025	Arrive Time	1119
I25	12 May 2025	Depart Time	1122
I25	12 May 2025	Air Temp (C)	17.7
I25	12 May 2025	Visibility (mi)	4
I25	12 May 2025	Wind Speed (kts)	7
I25	12 May 2025	Wind Dir	SW
I25	12 May 2025	Sea State	Confused Swell
I25	12 May 2025	High Tide Time	2118
I25	12 May 2025	Low Tide Time	354
I25	12 May 2025	Comments	
I25	19 May 2025	Arrive Time	1115
I25	19 May 2025	Depart Time	1120
I25	19 May 2025	Air Temp (C)	18.5
I25	19 May 2025	Visibility (mi)	10
I25	19 May 2025	Wind Speed (kts)	9
I25	19 May 2025	Wind Dir	NW
I25	19 May 2025	Sea State	Regular Swell
I25	19 May 2025	High Tide Time	118
I25	19 May 2025	Low Tide Time	924
I25	19 May 2025	Comments	
I25	27 May 2025	Arrive Time	1059
I25	27 May 2025	Depart Time	1101
I25	27 May 2025	Air Temp (C)	18.4
I25	27 May 2025	Visibility (mi)	10
I25	27 May 2025	Wind Speed (kts)	9
I25	27 May 2025	Wind Dir	W
I25	27 May 2025	Sea State	Confused Swell
I25	27 May 2025	High Tide Time	2142
I25	27 May 2025	Low Tide Time	412
I25	27 May 2025	Comments	
I39	06 May 2025	Arrive Time	1132
I39	06 May 2025	Depart Time	1136

Station	Date	Parameter	Value
I39	06 May 2025	Air Temp (C)	18.1
I39	06 May 2025	Visibility (mi)	6
I39	06 May 2025	Wind Speed (kts)	6.8
I39	06 May 2025	Wind Dir	S
I39	06 May 2025	Sea State	Calm
I39	06 May 2025	High Tide Time	1900
I39	06 May 2025	Low Tide Time	1224
I39	06 May 2025	Comments	
I39	12 May 2025	Arrive Time	1028
I39	12 May 2025	Depart Time	1044
I39	12 May 2025	Air Temp (C)	17.6
I39	12 May 2025	Visibility (mi)	4
I39	12 May 2025	Wind Speed (kts)	2.5
I39	12 May 2025	Wind Dir	SW
I39	12 May 2025	Sea State	Confused Swell
I39	12 May 2025	High Tide Time	2118
I39	12 May 2025	Low Tide Time	354
I39	12 May 2025	Comments	
I39	19 May 2025	Arrive Time	1022
I39	19 May 2025	Depart Time	1028
I39	19 May 2025	Air Temp (C)	19.1
I39	19 May 2025	Visibility (mi)	10
I39	19 May 2025	Wind Speed (kts)	2.5
I39	19 May 2025	Wind Dir	NW
I39	19 May 2025	Sea State	Regular Swell
I39	19 May 2025	High Tide Time	118
I39	19 May 2025	Low Tide Time	924
I39	19 May 2025	Comments	
I39	27 May 2025	Arrive Time	1011
I39	27 May 2025	Depart Time	1013
I39	27 May 2025	Air Temp (C)	19.1
I39	27 May 2025	Visibility (mi)	10
I39	27 May 2025	Wind Speed (kts)	7
I39	27 May 2025	Wind Dir	W
I39	27 May 2025	Sea State	Confused Swell
I39	27 May 2025	High Tide Time	2142
I39	27 May 2025	Low Tide Time	412
I39	27 May 2025	Comments	
I26	06 May 2025	Arrive Time	1232
I26	06 May 2025	Depart Time	1242
I26	06 May 2025	Air Temp (C)	17.1
I26	06 May 2025	Visibility (mi)	6
I26	06 May 2025	Wind Speed (kts)	9.7
I26	06 May 2025	Wind Dir	SW
I26	06 May 2025	Sea State	Calm
I26	06 May 2025	High Tide Time	1900
I26	06 May 2025	Low Tide Time	1224
I26	06 May 2025	Comments	
I26	12 May 2025	Arrive Time	1128
I26	12 May 2025	Depart Time	1132
I26	12 May 2025	Air Temp (C)	18.9
I26	12 May 2025	Visibility (mi)	4
I26	12 May 2025	Wind Speed (kts)	5.4
I26	12 May 2025	Wind Dir	SW
I26	12 May 2025	Sea State	Confused Swell
I26	12 May 2025	High Tide Time	2118

Station	Date	Parameter	Value
I26	12 May 2025	Low Tide Time	354
I26	12 May 2025	Comments	
I26	19 May 2025	Arrive Time	1125
I26	19 May 2025	Depart Time	1129
I26	19 May 2025	Air Temp (C)	18.3
I26	19 May 2025	Visibility (mi)	10
I26	19 May 2025	Wind Speed (kts)	10
I26	19 May 2025	Wind Dir	NW
I26	19 May 2025	Sea State	Regular Swell
I26	19 May 2025	High Tide Time	118
I26	19 May 2025	Low Tide Time	924
I26	19 May 2025	Comments	
I26	27 May 2025	Arrive Time	1109
I26	27 May 2025	Depart Time	1111
I26	27 May 2025	Air Temp (C)	18.9
I26	27 May 2025	Visibility (mi)	10
I26	27 May 2025	Wind Speed (kts)	7.9
I26	27 May 2025	Wind Dir	W
I26	27 May 2025	Sea State	Confused Swell
I26	27 May 2025	High Tide Time	2142
I26	27 May 2025	Low Tide Time	412
I26	27 May 2025	Comments	
I32	06 May 2025	Arrive Time	1249
I32	06 May 2025	Depart Time	1351
I32	06 May 2025	Air Temp (C)	17.2
I32	06 May 2025	Visibility (mi)	6
I32	06 May 2025	Wind Speed (kts)	10.3
I32	06 May 2025	Wind Dir	SW
I32	06 May 2025	Sea State	Calm
I32	06 May 2025	High Tide Time	1900
I32	06 May 2025	Low Tide Time	1224
I32	06 May 2025	Comments	Red Tide
I32	12 May 2025	Arrive Time	1142
I32	12 May 2025	Depart Time	1143
I32	12 May 2025	Air Temp (C)	18.4
I32	12 May 2025	Visibility (mi)	4
I32	12 May 2025	Wind Speed (kts)	7.4
I32	12 May 2025	Wind Dir	SW
I32	12 May 2025	Sea State	Confused Swell
I32	12 May 2025	High Tide Time	2118
I32	12 May 2025	Low Tide Time	354
I32	12 May 2025	Comments	
I32	19 May 2025	Arrive Time	1139
I32	19 May 2025	Depart Time	1144
I32	19 May 2025	Air Temp (C)	18.7
I32	19 May 2025	Visibility (mi)	10
I32	19 May 2025	Wind Speed (kts)	9.2
I32	19 May 2025	Wind Dir	NW
I32	19 May 2025	Sea State	Regular Swell
I32	19 May 2025	High Tide Time	118
I32	19 May 2025	Low Tide Time	924
I32	19 May 2025	Comments	
I32	27 May 2025	Arrive Time	1120
I32	27 May 2025	Depart Time	1124
I32	27 May 2025	Air Temp (C)	18.8

Station	Date	Parameter	Value
I32	27 May 2025	Visibility (mi)	10
I32	27 May 2025	Wind Speed (kts)	9.6
I32	27 May 2025	Wind Dir	W
I32	27 May 2025	Sea State	Confused Swell
I32	27 May 2025	High Tide Time	2142
I32	27 May 2025	Low Tide Time	412
I32	27 May 2025	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 2025	1	16.14	86.23	8.6	33.51	8.2	24.6	0.58
I19	06 May 2025	2	16.12	86.25	8.6	33.51	8.2	24.6	0.58
I19	06 May 2025	3	16.06	86.28	8.6	33.51	8.2	24.6	0.64
I19	06 May 2025	4	15.43	85.20	8.8	33.52	8.2	24.7	0.95
I19	06 May 2025	5	15.10	80.28	9.0	33.53	8.2	24.8	2.06
I19	06 May 2025	6	14.82	74.44	8.9	33.55	8.1	24.9	4.23
I19	06 May 2025	7	14.74	73.12	8.9	33.56	8.1	24.9	6.46
I19	06 May 2025	8	14.63	77.44	8.7	33.56	8.1	24.9	5.38
I19	06 May 2025	9	14.32	77.56	8.3	33.55	8.1	25.0	4.48
I19	06 May 2025	10	14.07	71.00	7.9	33.54	8.1	25.0	3.57
I19	12 May 2025	1	16.53	88.28	10.0	33.58	8.3	24.5	0.60
I19	12 May 2025	2	16.51	88.26	10.0	33.58	8.3	24.5	0.61
I19	12 May 2025	3	16.42	88.53	9.9	33.59	8.3	24.6	0.70
I19	12 May 2025	4	16.31	88.28	9.7	33.59	8.3	24.6	0.82
I19	12 May 2025	5	15.96	86.92	9.4	33.61	8.2	24.7	1.04
I19	12 May 2025	6	15.98	81.34	9.1	33.59	8.2	24.7	1.36
I19	12 May 2025	7	14.91	76.52	9.5	33.59	8.2	24.9	4.55
I19	12 May 2025	8	13.58	68.77	9.8	33.65	8.2	25.2	16.64
I19	12 May 2025	9	13.93	70.51	9.2	33.63	8.2	25.1	10.73
I19	12 May 2025	10	13.11	70.36	7.6	33.67	8.1	25.3	12.18
I19	19 May 2025	1	16.63	82.69	9.5	33.62	8.2	24.5	0.67
I19	19 May 2025	2	16.67	83.10	9.5	33.62	8.2	24.5	0.69
I19	19 May 2025	3	16.58	83.23	9.5	33.62	8.2	24.6	0.79
I19	19 May 2025	4	16.21	83.28	9.8	33.61	8.2	24.6	0.85
I19	19 May 2025	5	15.12	83.42	10.2	33.66	8.2	24.9	1.44
I19	19 May 2025	6	14.99	72.89	9.0	33.63	8.2	24.9	2.62
I19	19 May 2025	7	13.23	59.20	5.7	33.72	7.8	25.4	13.01
I19	19 May 2025	8	12.95	52.92	3.7	33.71	7.6	25.4	17.20
I19	19 May 2025	9	12.79	54.03	3.0	33.72	7.5	25.4	15.08
I19	19 May 2025	10	12.85	58.09	2.7	33.71	7.5	25.4	11.84
I19	27 May 2025	1	19.25	65.34	10.3	33.62	8.4	23.9	4.83
I19	27 May 2025	2	19.17	65.03	10.1	33.62	8.4	23.9	5.33
I19	27 May 2025	3	18.60	63.68	9.7	33.61	8.4	24.1	9.11
I19	27 May 2025	4	17.87	58.87	8.8	33.61	8.3	24.2	12.26
I19	27 May 2025	5	17.47	53.11	8.0	33.59	8.3	24.3	13.27
I19	27 May 2025	6	16.61	50.47	7.4	33.59	8.2	24.5	12.23
I19	27 May 2025	7	15.40	54.27	7.3	33.59	8.1	24.8	10.14
I19	27 May 2025	8	15.02	67.60	6.9	33.60	8.1	24.9	7.91
I19	27 May 2025	9	14.85	65.42	6.2	33.59	8.0	24.9	8.08
I19	27 May 2025	10	14.37	48.24	5.6	33.58	7.9	25.0	9.09
I40	06 May 2025	1	16.12	85.24	8.7	33.51	8.2	24.6	0.66
I40	06 May 2025	2	15.94	85.13	8.6	33.50	8.2	24.6	0.71
I40	06 May 2025	3	15.24	83.19	8.8	33.52	8.2	24.8	1.08
I40	06 May 2025	4	15.04	79.66	9.2	33.53	8.2	24.8	1.98
I40	06 May 2025	5	14.86	75.87	9.3	33.53	8.2	24.9	4.54
I40	06 May 2025	6	14.78	67.26	9.2	33.53	8.2	24.9	10.66
I40	06 May 2025	7	14.69	69.02	8.9	33.53	8.2	24.9	8.64
I40	06 May 2025	8	14.59	75.45	8.6	33.53	8.1	24.9	4.09
I40	06 May 2025	9	14.37	75.57	8.1	33.54	8.1	25.0	3.55
I40	06 May 2025	10	14.40	70.46	8.1	33.55	8.1	25.0	3.51
I40	12 May 2025	1	16.36	85.90	9.7	33.58	8.3	24.6	0.63
I40	12 May 2025	2	16.26	84.87	9.6	33.59	8.2	24.6	0.73
I40	12 May 2025	3	16.09	83.26	9.5	33.60	8.2	24.6	0.96
I40	12 May 2025	4	15.79	81.81	9.7	33.61	8.2	24.7	1.25
I40	12 May 2025	5	15.78	60.44	10.2	33.60	8.3	24.7	23.82
I40	12 May 2025	6	14.59	56.23	11.2	33.62	8.3	25.0	25.72
I40	12 May 2025	7	14.25	54.14	11.2	33.63	8.3	25.1	29.62
I40	12 May 2025	8	13.34	58.65	8.4	33.64	8.1	25.3	20.08
I40	12 May 2025	9	13.04	61.87	6.7	33.63	7.9	25.3	9.82
I40	12 May 2025	10	12.86	60.77	6.1	33.62	7.9	25.3	6.81
I40	19 May 2025	1	17.28	56.73	9.4	32.95	8.2	23.9	4.52
I40	19 May 2025	2	16.59	60.00	10.3	33.56	8.2	24.5	10.52

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I40	19 May 2025	3	16.57	62.95	10.2	33.56	8.2	24.5	13.37
I40	19 May 2025	4	15.96	66.89	8.7	33.63	8.1	24.7	15.64
I40	19 May 2025	5	15.09	58.47	7.4	33.65	8.0	24.9	20.02
I40	19 May 2025	6	14.27	59.21	7.0	33.66	8.0	25.1	20.35
I40	19 May 2025	7	13.59	67.75	6.5	33.68	7.9	25.3	16.08
I40	19 May 2025	8	13.02	72.89	5.3	33.70	7.8	25.4	10.02
I40	19 May 2025	9	12.89	74.60	4.1	33.71	7.7	25.4	5.97
I40	19 May 2025	10	13.27	67.03	4.4	33.70	7.6	25.3	6.38
I40	27 May 2025	1	19.45	59.76	9.9	33.61	8.4	23.8	6.22
I40	27 May 2025	2	19.39	59.19	9.9	33.61	8.4	23.9	5.74
I40	27 May 2025	3	19.30	58.38	9.9	33.61	8.4	23.9	8.75
I40	27 May 2025	4	19.02	57.14	9.4	33.59	8.4	23.9	12.65
I40	27 May 2025	5	17.76	49.71	8.9	33.59	8.3	24.3	22.59
I40	27 May 2025	6	17.40	51.04	8.7	33.60	8.2	24.3	21.76
I40	27 May 2025	7	16.68	56.96	8.2	33.58	8.2	24.5	20.09
I40	27 May 2025	8	15.83	66.50	7.6	33.58	8.2	24.7	11.11
I40	27 May 2025	9	15.36	71.12	6.8	33.59	8.1	24.8	6.81
I40	27 May 2025	10	14.04	61.10	5.6	33.58	8.0	25.1	8.50
I24	06 May 2025	1	16.29	84.63	8.8	33.51	8.2	24.5	0.80
I24	06 May 2025	2	16.26	83.89	8.8	33.51	8.2	24.5	0.95
I24	06 May 2025	3	16.19	85.45	8.8	33.51	8.2	24.6	1.01
I24	06 May 2025	4	15.97	84.62	8.7	33.50	8.2	24.6	1.10
I24	06 May 2025	5	14.89	79.54	9.2	33.53	8.2	24.9	2.33
I24	06 May 2025	6	14.53	72.91	8.8	33.53	8.1	24.9	3.66
I24	06 May 2025	7	14.09	76.40	8.0	33.55	8.1	25.0	2.83
I24	06 May 2025	8	13.45	76.28	7.4	33.57	8.0	25.2	2.68
I24	06 May 2025	9	13.64	76.86	7.5	33.56	8.0	25.1	2.68
I24	12 May 2025	1	16.59	88.28	9.7	33.57	8.3	24.5	0.57
I24	12 May 2025	2	16.59	88.30	9.7	33.57	8.3	24.5	0.55
I24	12 May 2025	3	16.44	88.38	9.7	33.59	8.3	24.6	0.66
I24	12 May 2025	4	16.10	87.83	10.1	33.59	8.3	24.6	0.82
I24	12 May 2025	5	15.76	86.82	10.5	33.60	8.3	24.7	0.98
I24	12 May 2025	6	14.07	84.60	11.3	33.69	8.3	25.2	2.96
I24	12 May 2025	7	13.48	55.35	10.8	33.68	8.2	25.3	26.83
I24	12 May 2025	8	12.58	57.93	8.8	33.66	8.1	25.4	19.62
I24	12 May 2025	9	12.13	71.63	6.4	33.63	7.8	25.5	7.04
I24	12 May 2025	10	12.16	75.14	5.8	33.62	7.8	25.5	5.19
I24	19 May 2025	1	16.93	68.06	9.0	33.38	8.2	24.3	1.41
I24	19 May 2025	2	16.67	70.11	9.4	33.52	8.2	24.5	1.96
I24	19 May 2025	3	16.40	77.96	9.8	33.61	8.2	24.6	2.25
I24	19 May 2025	4	16.10	85.94	9.1	33.61	8.2	24.7	1.96
I24	19 May 2025	5	14.59	81.79	7.7	33.67	8.0	25.0	3.18
I24	19 May 2025	6	13.73	82.13	6.2	33.67	7.9	25.2	3.04
I24	19 May 2025	7	12.55	79.36	4.4	33.73	7.7	25.5	2.50
I24	19 May 2025	8	12.77	72.75	4.0	33.70	7.6	25.4	2.30
I24	19 May 2025	9	12.54	64.79	3.9	33.72	7.6	25.5	2.52
I24	19 May 2025	10	12.58	58.20	3.6	33.72	7.6	25.5	2.59
I24	27 May 2025	1	19.47	70.99	10.4	33.63	8.4	23.9	2.80
I24	27 May 2025	2	19.46	60.41	10.4	33.63	8.4	23.9	2.94
I24	27 May 2025	3	19.44	63.98	10.4	33.63	8.4	23.9	3.97
I24	27 May 2025	4	19.34	69.47	10.4	33.63	8.4	23.9	5.78
I24	27 May 2025	5	19.25	60.24	10.1	33.62	8.4	23.9	15.54
I24	27 May 2025	6	17.65	51.65	9.3	33.59	8.3	24.3	15.59
I24	27 May 2025	7	17.03	68.96	9.1	33.62	8.3	24.4	8.91
I24	27 May 2025	8	16.79	76.41	8.2	33.59	8.2	24.5	8.04
I24	27 May 2025	9	14.99	71.73	6.7	33.58	8.1	24.9	6.40
I24	27 May 2025	10	14.39	60.21	5.7	33.60	7.9	25.0	6.87
I25	06 May 2025	1	16.35	86.37	8.7	33.51	8.2	24.5	0.60
I25	06 May 2025	2	15.98	86.38	8.7	33.50	8.2	24.6	0.76
I25	06 May 2025	3	15.07	84.00	8.9	33.53	8.2	24.8	1.27
I25	06 May 2025	4	14.72	76.90	8.7	33.53	8.1	24.9	2.01
I25	06 May 2025	5	14.47	75.89	8.3	33.55	8.1	25.0	2.15
I25	06 May 2025	6	14.34	76.98	8.1	33.55	8.1	25.0	1.97
I25	06 May 2025	7	13.92	74.53	7.7	33.56	8.1	25.1	2.33
I25	06 May 2025	8	13.87	72.28	7.6	33.56	8.0	25.1	2.46
I25	12 May 2025	1	16.63	88.86	9.8	33.57	8.3	24.5	0.53
I25	12 May 2025	2	16.62	88.86	9.7	33.57	8.3	24.5	0.52

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I25	12 May 2025	3	16.60	88.75	9.7	33.57	8.3	24.5	0.53
I25	12 May 2025	4	16.50	88.64	9.7	33.57	8.3	24.5	0.61
I25	12 May 2025	5	16.39	88.18	9.7	33.57	8.3	24.6	0.70
I25	12 May 2025	6	15.78	87.58	10.6	33.58	8.3	24.7	1.76
I25	12 May 2025	7	13.96	60.08	12.3	33.64	8.3	25.1	48.96
I25	12 May 2025	8	12.86	44.71	10.9	33.61	8.3	25.3	28.00
I25	12 May 2025	9	12.51	72.32	8.1	33.60	8.0	25.4	5.40
I25	19 May 2025	1	17.40	69.83	8.9	33.23	8.2	24.1	0.96
I25	19 May 2025	2	17.29	70.14	9.0	33.32	8.2	24.2	0.97
I25	19 May 2025	3	16.82	79.64	9.4	33.61	8.2	24.5	0.96
I25	19 May 2025	4	16.67	85.59	9.5	33.60	8.2	24.5	0.97
I25	19 May 2025	5	16.48	88.64	9.6	33.60	8.2	24.6	0.80
I25	19 May 2025	6	15.96	89.89	9.4	33.59	8.2	24.7	0.90
I25	19 May 2025	7	14.95	76.46	9.1	33.63	8.1	24.9	7.10
I25	19 May 2025	8	13.47	74.34	6.8	33.69	7.9	25.3	4.57
I25	19 May 2025	9	13.49	80.65	6.1	33.68	7.9	25.3	2.77
I25	27 May 2025	1	19.53	80.18	10.3	33.64	8.4	23.9	1.61
I25	27 May 2025	2	19.53	80.15	10.3	33.64	8.4	23.8	1.46
I25	27 May 2025	3	19.51	80.31	10.3	33.64	8.4	23.9	1.63
I25	27 May 2025	4	19.45	79.91	10.3	33.64	8.4	23.9	2.14
I25	27 May 2025	5	19.40	78.98	10.3	33.64	8.4	23.9	2.68
I25	27 May 2025	6	19.12	76.70	9.6	33.62	8.4	23.9	4.92
I25	27 May 2025	7	17.14	69.35	8.4	33.60	8.3	24.4	7.84
I25	27 May 2025	8	16.14	75.94	7.7	33.62	8.1	24.7	3.90
I25	27 May 2025	9	15.17	76.07	6.6	33.60	8.0	24.9	2.98
I39	06 May 2025	1	16.44	92.27	9.3	33.55	8.2	24.5	0.49
I39	06 May 2025	2	16.29	92.30	9.2	33.54	8.2	24.6	0.46
I39	06 May 2025	3	16.01	92.39	9.1	33.54	8.2	24.6	0.54
I39	06 May 2025	4	15.44	91.20	10.1	33.55	8.2	24.8	2.99
I39	06 May 2025	5	14.40	60.43	11.2	33.57	8.3	25.0	19.97
I39	06 May 2025	6	13.63	68.18	10.2	33.57	8.2	25.2	23.11
I39	06 May 2025	7	12.98	65.18	8.2	33.57	8.1	25.3	13.51
I39	06 May 2025	8	12.68	90.81	7.0	33.56	8.0	25.3	1.81
I39	06 May 2025	9	12.37	94.51	6.6	33.56	8.0	25.4	1.13
I39	06 May 2025	10	12.21	94.39	6.4	33.57	7.9	25.4	1.17
I39	06 May 2025	11	12.09	92.31	6.3	33.57	7.9	25.5	1.36
I39	06 May 2025	12	12.04	91.08	6.2	33.58	7.9	25.5	1.39
I39	06 May 2025	13	12.01	89.95	6.1	33.58	7.9	25.5	1.43
I39	06 May 2025	14	11.99	88.79	6.1	33.59	7.9	25.5	1.39
I39	06 May 2025	15	11.98	88.37	6.0	33.59	7.9	25.5	1.37
I39	06 May 2025	16	11.94	88.25	6.0	33.59	7.9	25.5	1.29
I39	06 May 2025	17	11.85	88.86	5.9	33.59	7.9	25.5	1.17
I39	06 May 2025	18	11.75	87.49	5.7	33.60	7.9	25.5	0.97
I39	12 May 2025	1	16.79	90.83	10.4	33.57	8.3	24.5	0.55
I39	12 May 2025	2	16.75	90.80	10.4	33.57	8.3	24.5	0.57
I39	12 May 2025	3	16.65	90.89	10.3	33.57	8.3	24.5	0.65
I39	12 May 2025	4	16.59	90.86	10.2	33.57	8.3	24.5	0.74
I39	12 May 2025	5	15.87	90.72	10.1	33.55	8.3	24.7	0.83
I39	12 May 2025	6	14.61	90.24	10.8	33.56	8.3	24.9	0.93
I39	12 May 2025	7	14.21	89.84	11.3	33.54	8.3	25.0	0.94
I39	12 May 2025	8	13.77	90.34	11.1	33.53	8.3	25.1	1.02
I39	12 May 2025	9	13.05	90.53	10.1	33.57	8.2	25.3	1.04
I39	12 May 2025	10	12.64	90.79	9.4	33.62	8.2	25.4	1.89
I39	12 May 2025	11	12.27	85.46	7.9	33.63	8.0	25.5	9.11
I39	12 May 2025	12	12.06	79.45	6.0	33.67	7.9	25.5	6.13
I39	12 May 2025	13	12.04	84.76	5.4	33.69	7.8	25.6	4.30
I39	12 May 2025	14	12.01	87.01	5.2	33.72	7.8	25.6	2.87
I39	12 May 2025	15	11.98	88.14	5.1	33.73	7.8	25.6	2.44
I39	12 May 2025	16	11.93	89.80	5.0	33.73	7.8	25.6	1.75
I39	12 May 2025	17	11.91	90.71	5.0	33.74	7.8	25.6	1.14
I39	12 May 2025	18	11.90	90.99	5.0	33.74	7.8	25.6	1.00
I39	19 May 2025	1	16.91	86.43	9.6	33.56	8.2	24.4	0.57
I39	19 May 2025	2	16.53	87.02	9.7	33.58	8.2	24.5	0.57
I39	19 May 2025	3	16.18	89.42	10.1	33.61	8.2	24.6	0.60
I39	19 May 2025	4	15.96	90.41	10.2	33.60	8.2	24.7	0.75
I39	19 May 2025	5	15.54	90.28	10.0	33.61	8.2	24.8	0.89
I39	19 May 2025	6	14.97	89.84	9.6	33.61	8.2	24.9	1.25
I39	19 May 2025	7	14.00	86.49	8.7	33.62	8.1	25.1	3.69
I39	19 May 2025	8	13.06	79.44	6.8	33.65	7.9	25.3	9.03

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I39	19 May 2025	9	12.41	78.97	4.5	33.69	7.7	25.5	6.96
I39	19 May 2025	10	11.90	84.38	3.4	33.73	7.6	25.6	3.95
I39	19 May 2025	11	11.74	89.61	3.5	33.73	7.6	25.7	1.93
I39	19 May 2025	12	11.73	91.16	3.5	33.73	7.6	25.6	1.86
I39	19 May 2025	13	11.56	90.84	3.5	33.73	7.6	25.7	1.56
I39	19 May 2025	14	11.55	89.30	3.5	33.74	7.6	25.7	1.40
I39	19 May 2025	15	11.44	87.84	3.4	33.75	7.6	25.7	1.43
I39	19 May 2025	16	11.43	85.95	3.4	33.75	7.6	25.7	1.35
I39	19 May 2025	17	11.42	86.17	3.4	33.75	7.6	25.7	1.37
I39	19 May 2025	18	11.43	85.42	3.3	33.75	7.6	25.7	1.40
I39	27 May 2025	1	19.21	83.04	10.1	33.63	8.3	23.9	0.87
I39	27 May 2025	2	19.22	86.64	10.1	33.63	8.3	23.9	0.84
I39	27 May 2025	3	19.21	88.43	10.1	33.63	8.3	23.9	0.88
I39	27 May 2025	4	19.19	88.73	10.1	33.63	8.3	23.9	1.09
I39	27 May 2025	5	19.17	88.69	10.2	33.63	8.3	23.9	1.27
I39	27 May 2025	6	19.14	88.35	10.2	33.63	8.3	23.9	1.50
I39	27 May 2025	7	19.13	88.08	10.1	33.63	8.3	23.9	1.68
I39	27 May 2025	8	18.82	88.07	10.0	33.62	8.3	24.0	1.77
I39	27 May 2025	9	18.33	87.70	10.0	33.62	8.3	24.1	2.11
I39	27 May 2025	10	18.22	86.09	10.0	33.62	8.3	24.2	2.80
I39	27 May 2025	11	18.18	85.20	9.9	33.62	8.3	24.2	2.90
I39	27 May 2025	12	17.95	84.49	9.6	33.61	8.3	24.2	3.24
I39	27 May 2025	13	17.63	83.76	9.1	33.62	8.3	24.3	3.61
I39	27 May 2025	14	16.32	84.36	7.7	33.55	8.2	24.6	3.64
I39	27 May 2025	15	13.70	85.62	6.0	33.64	8.0	25.2	2.33
I39	27 May 2025	16	13.42	86.07	5.2	33.60	7.9	25.2	1.59
I39	27 May 2025	17	13.03	85.52	4.8	33.61	7.8	25.3	1.36
I39	27 May 2025	18	12.89	84.82	4.5	33.60	7.8	25.3	1.21
I26	06 May 2025	1	15.49	81.84	8.7	33.54	8.1	24.7	1.19
I26	06 May 2025	2	15.48	80.83	8.7	33.54	8.1	24.7	1.19
I26	06 May 2025	3	15.48	80.80	8.7	33.54	8.1	24.7	1.27
I26	06 May 2025	4	15.46	81.70	8.7	33.54	8.1	24.7	1.55
I26	06 May 2025	5	15.40	81.25	8.7	33.54	8.2	24.8	2.00
I26	06 May 2025	6	15.35	80.49	8.8	33.54	8.2	24.8	2.86
I26	06 May 2025	7	15.29	80.26	8.7	33.54	8.2	24.8	3.27
I26	06 May 2025	8	15.06	82.09	8.4	33.55	8.1	24.8	2.75
I26	06 May 2025	9	14.52	55.00	7.3	33.59	8.1	25.0	2.25
I26	12 May 2025	1	16.60	87.72	9.8	33.55	8.3	24.5	0.41
I26	12 May 2025	2	16.59	87.58	9.8	33.57	8.3	24.5	0.42
I26	12 May 2025	3	16.49	90.10	9.8	33.57	8.3	24.5	0.46
I26	12 May 2025	4	16.35	89.87	9.7	33.58	8.3	24.6	0.62
I26	12 May 2025	5	16.31	87.48	9.7	33.58	8.2	24.6	0.77
I26	12 May 2025	6	16.22	85.77	9.4	33.58	8.2	24.6	0.92
I26	12 May 2025	7	15.46	84.49	8.9	33.58	8.2	24.8	1.12
I26	12 May 2025	8	14.11	78.54	9.5	33.61	8.2	25.1	4.55
I26	12 May 2025	9	13.43	66.49	8.9	33.58	8.2	25.2	9.81
I26	19 May 2025	1	17.07	86.47	9.7	33.58	8.2	24.4	0.52
I26	19 May 2025	2	17.01	86.93	9.7	33.58	8.2	24.4	0.60
I26	19 May 2025	3	16.56	87.84	9.8	33.60	8.2	24.5	0.56
I26	19 May 2025	4	16.22	90.79	10.0	33.61	8.2	24.6	0.48
I26	19 May 2025	5	15.50	90.43	9.9	33.62	8.2	24.8	0.55
I26	19 May 2025	6	15.09	88.71	9.7	33.63	8.2	24.9	0.84
I26	19 May 2025	7	13.56	81.90	8.3	33.65	8.1	25.2	3.83
I26	19 May 2025	8	13.15	71.86	6.7	33.68	7.9	25.3	7.59
I26	19 May 2025	9	13.53	76.56	7.1	33.66	7.9	25.2	5.03
I26	27 May 2025	1	19.61	71.51	10.2	33.63	8.4	23.8	2.35
I26	27 May 2025	2	19.60	70.56	10.2	33.64	8.4	23.8	2.55
I26	27 May 2025	3	19.60	71.25	10.2	33.63	8.4	23.8	3.19
I26	27 May 2025	4	19.54	70.95	10.1	33.63	8.4	23.8	3.71
I26	27 May 2025	5	19.48	68.20	10.1	33.63	8.4	23.9	6.32
I26	27 May 2025	6	19.25	65.40	9.5	33.61	8.4	23.9	7.98
I26	27 May 2025	7	18.16	65.63	8.9	33.59	8.3	24.2	9.05
I26	27 May 2025	8	16.76	74.89	8.8	33.60	8.2	24.5	7.07
I26	27 May 2025	9	16.11	82.64	8.4	33.59	8.2	24.6	5.61
I32	06 May 2025	1	16.11	64.46	10.5	33.57	8.3	24.6	11.44
I32	06 May 2025	2	16.10	64.69	10.5	33.57	8.3	24.6	12.57
I32	06 May 2025	3	16.08	64.57	10.4	33.57	8.3	24.6	13.42
I32	06 May 2025	4	16.02	64.95	10.3	33.57	8.3	24.6	13.79

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I32	06 May 2025	5	15.90	68.95	10.1	33.57	8.2	24.7	11.59
I32	06 May 2025	6	15.87	71.30	9.9	33.56	8.2	24.7	10.73
I32	06 May 2025	7	15.70	72.94	9.7	33.56	8.2	24.7	9.42
I32	06 May 2025	8	15.59	71.37	9.6	33.56	8.2	24.7	8.86
I32	06 May 2025	9	15.60	71.82	9.5	33.56	8.2	24.7	8.84
I32	06 May 2025	10	15.52	70.96	9.2	33.56	8.2	24.7	6.33
I32	12 May 2025	1	16.49	87.42	9.5	33.58	8.2	24.5	0.66
I32	12 May 2025	2	16.48	87.44	9.6	33.58	8.2	24.5	0.69
I32	12 May 2025	3	16.43	87.25	9.6	33.57	8.2	24.6	0.80
I32	12 May 2025	4	16.42	87.08	9.6	33.57	8.2	24.6	0.95
I32	12 May 2025	5	16.39	86.52	9.4	33.57	8.2	24.6	1.11
I32	12 May 2025	6	16.34	84.17	9.1	33.56	8.2	24.6	1.32
I32	12 May 2025	7	15.72	77.61	8.2	33.54	8.2	24.7	1.66
I32	12 May 2025	8	13.27	68.68	7.0	33.55	8.0	25.2	4.81
I32	12 May 2025	9	12.46	61.20	6.2	33.53	7.9	25.4	11.06
I32	12 May 2025	10	12.00	65.56	5.6	33.52	7.8	25.4	10.32
I32	19 May 2025	1	17.15	72.32	9.6	33.50	8.2	24.3	1.26
I32	19 May 2025	2	17.14	72.63	9.6	33.50	8.2	24.3	1.28
I32	19 May 2025	3	16.99	72.70	9.7	33.52	8.2	24.4	1.48
I32	19 May 2025	4	16.61	74.34	10.0	33.59	8.2	24.5	1.85
I32	19 May 2025	5	16.35	82.46	10.0	33.60	8.2	24.6	1.82
I32	19 May 2025	6	16.03	83.17	9.5	33.59	8.2	24.7	1.85
I32	19 May 2025	7	13.63	75.45	8.4	33.66	8.1	25.2	10.02
I32	19 May 2025	8	13.18	63.52	6.8	33.68	7.9	25.3	13.35
I32	19 May 2025	9	12.78	68.66	5.7	33.69	7.8	25.4	9.82
I32	19 May 2025	10	12.96	60.83	5.3	33.68	7.8	25.4	6.31
I32	27 May 2025	1	19.55	64.95	10.6	33.64	8.4	23.8	4.91
I32	27 May 2025	2	19.56	65.18	10.5	33.64	8.4	23.8	4.96
I32	27 May 2025	3	19.45	65.38	10.3	33.64	8.4	23.9	6.56
I32	27 May 2025	4	19.30	63.04	9.9	33.63	8.4	23.9	9.30
I32	27 May 2025	5	18.85	59.77	8.6	33.60	8.4	24.0	9.99
I32	27 May 2025	6	17.04	54.96	7.8	33.59	8.2	24.4	8.15
I32	27 May 2025	7	16.13	65.14	7.7	33.61	8.1	24.7	6.82
I32	27 May 2025	8	15.28	80.79	7.7	33.60	8.1	24.8	6.72
I32	27 May 2025	9	14.87	83.41	7.2	33.60	8.1	24.9	4.83
I32	27 May 2025	10	14.51	78.86	6.1	33.59	8.0	25.0	4.13

NA = not available

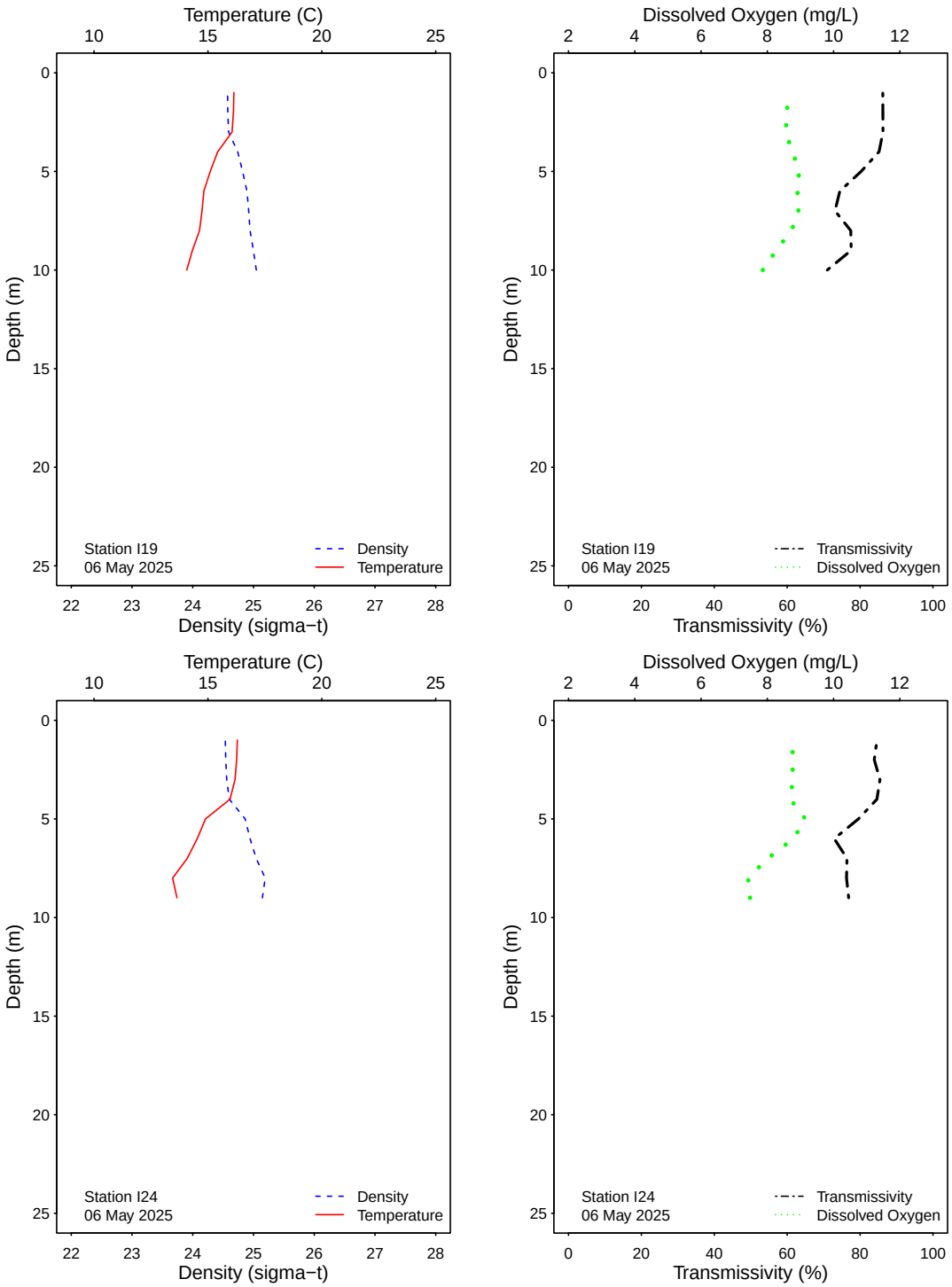

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

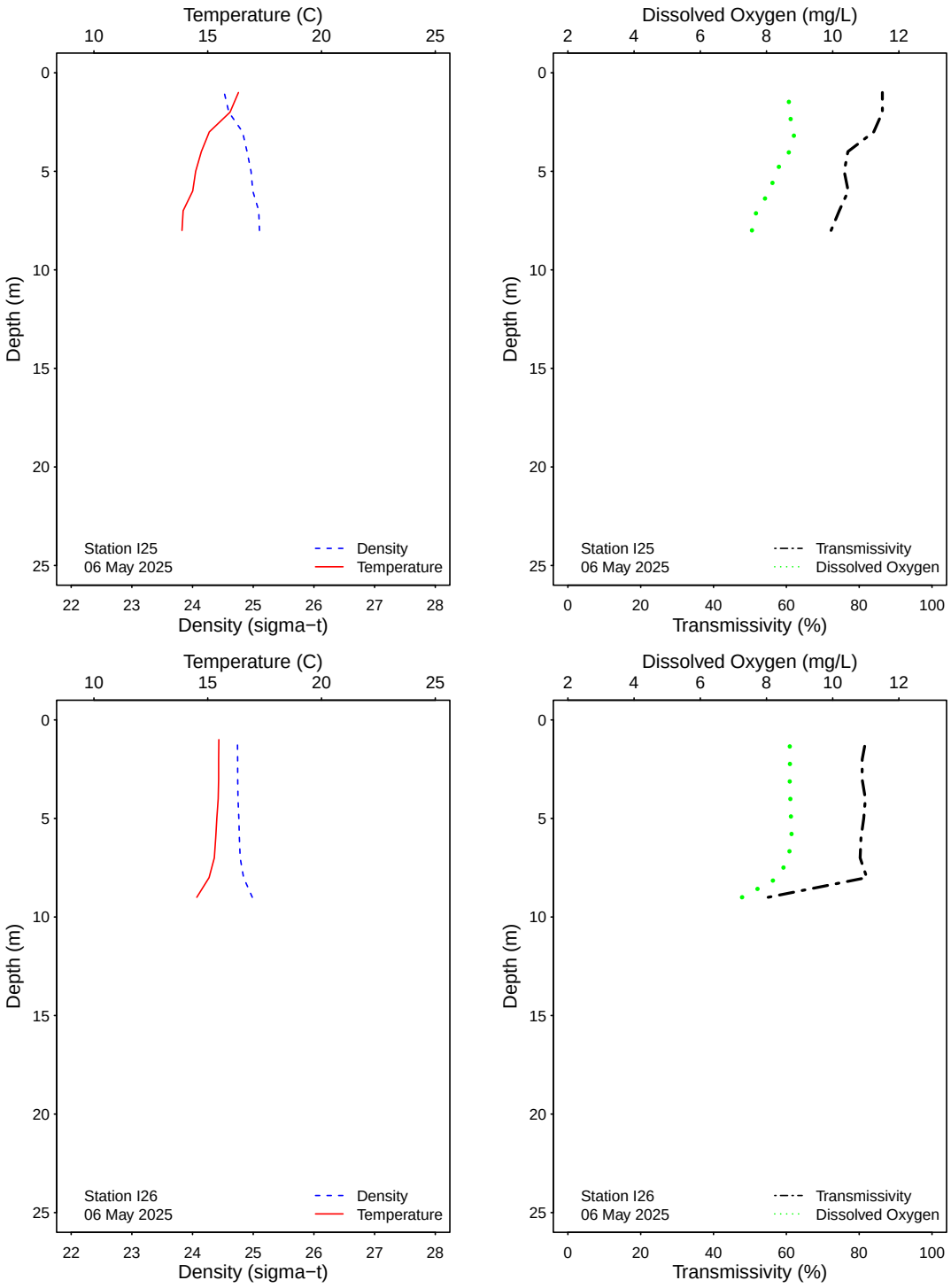

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

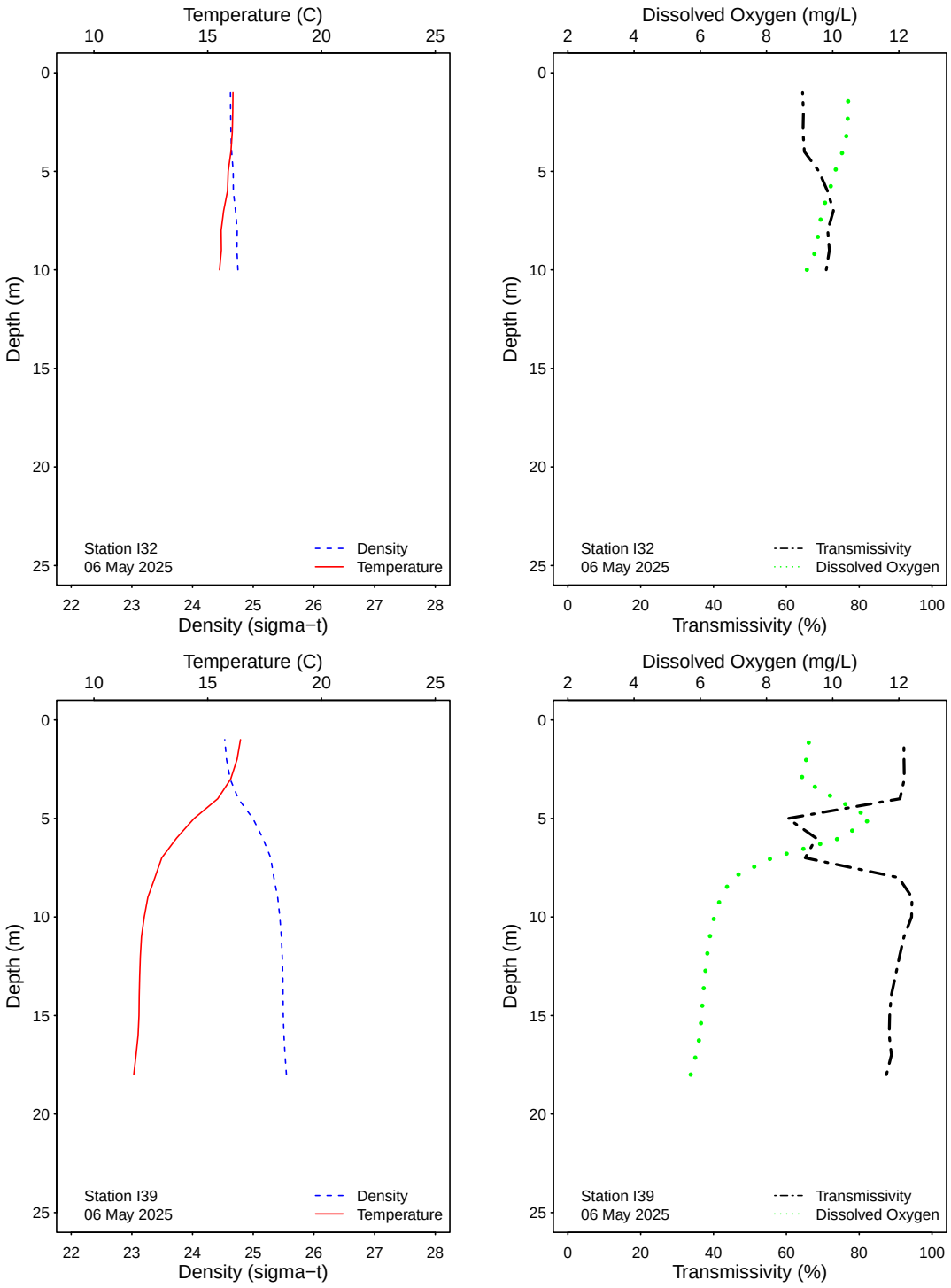

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

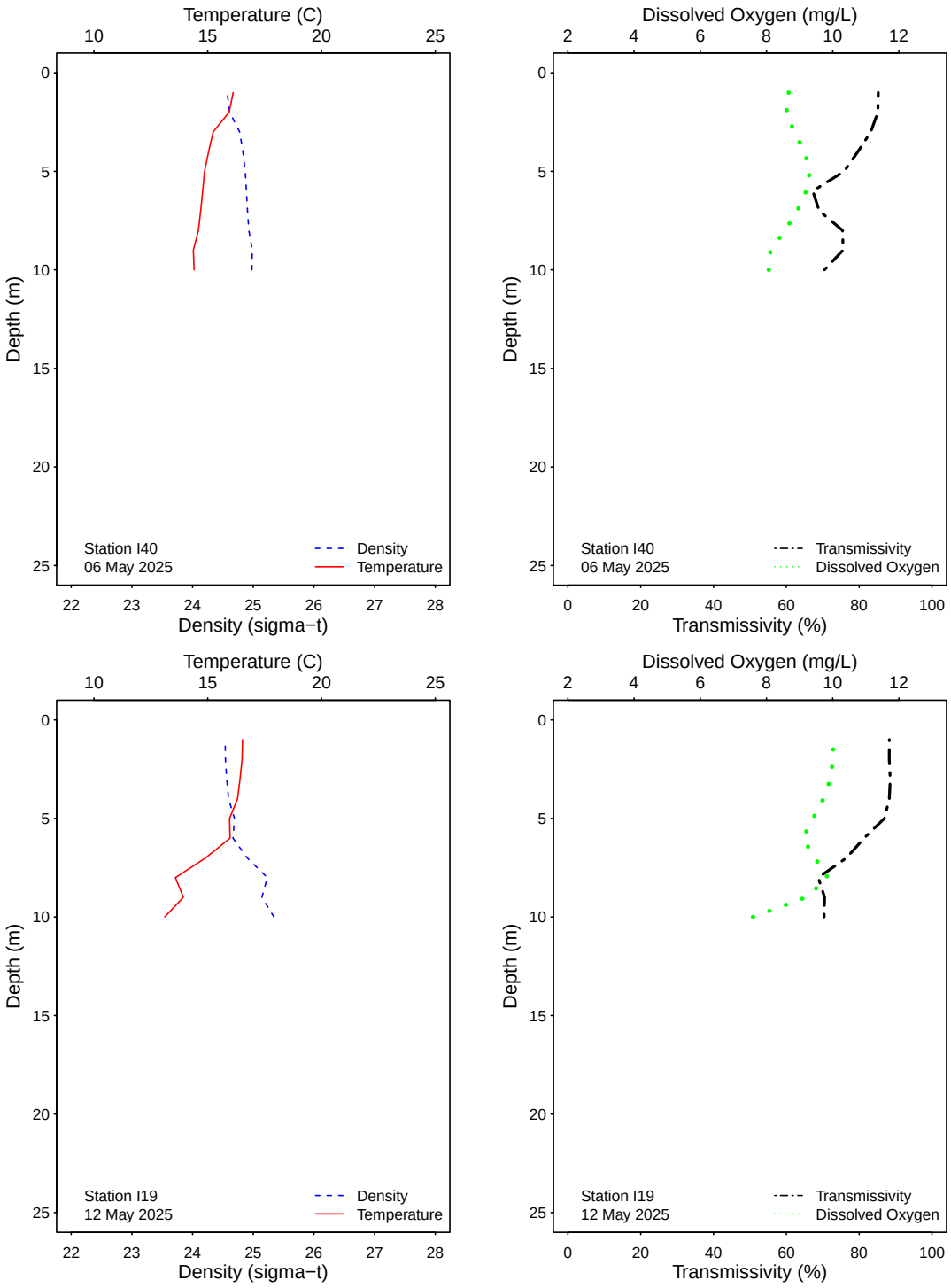

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

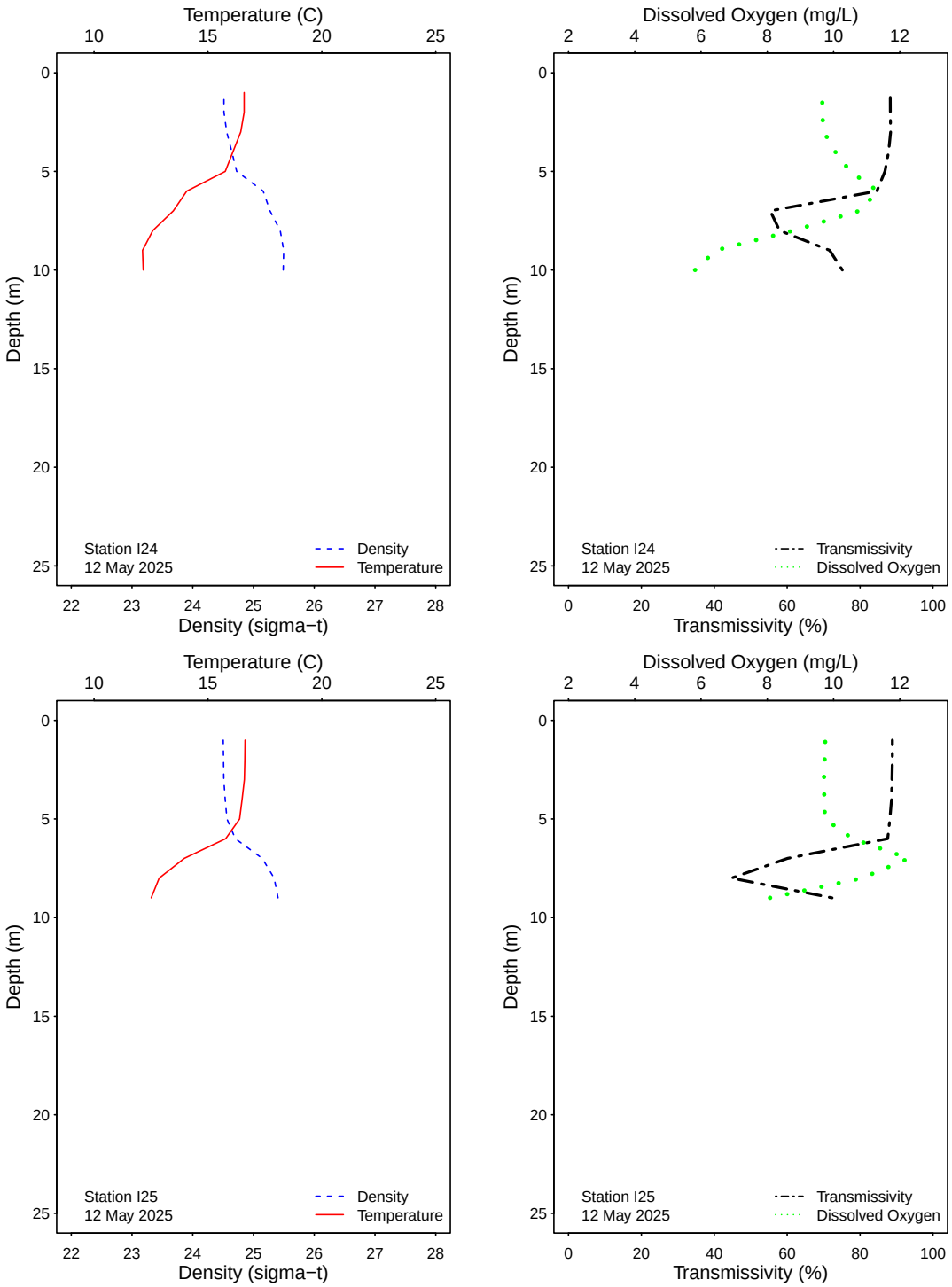

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

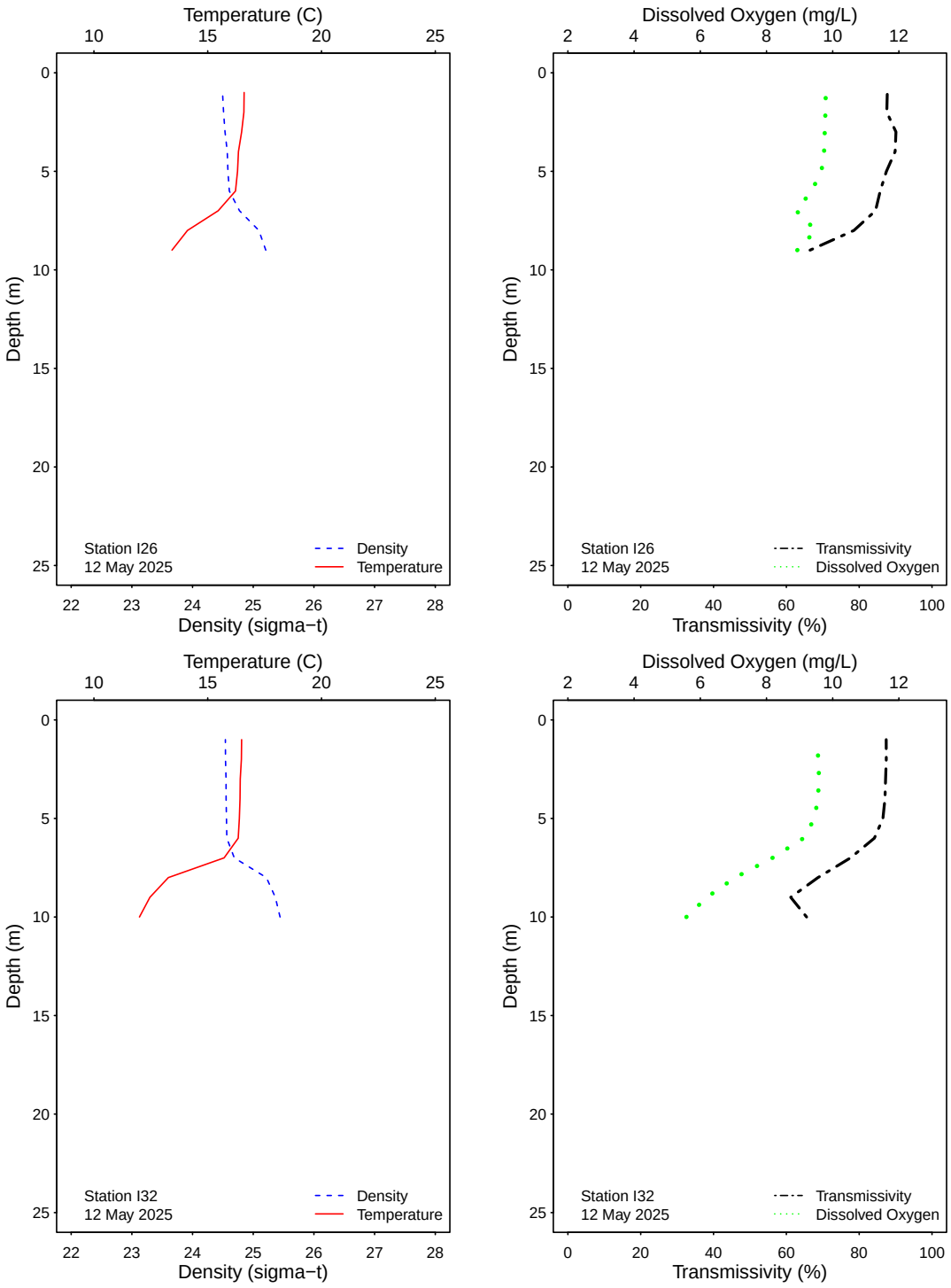

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

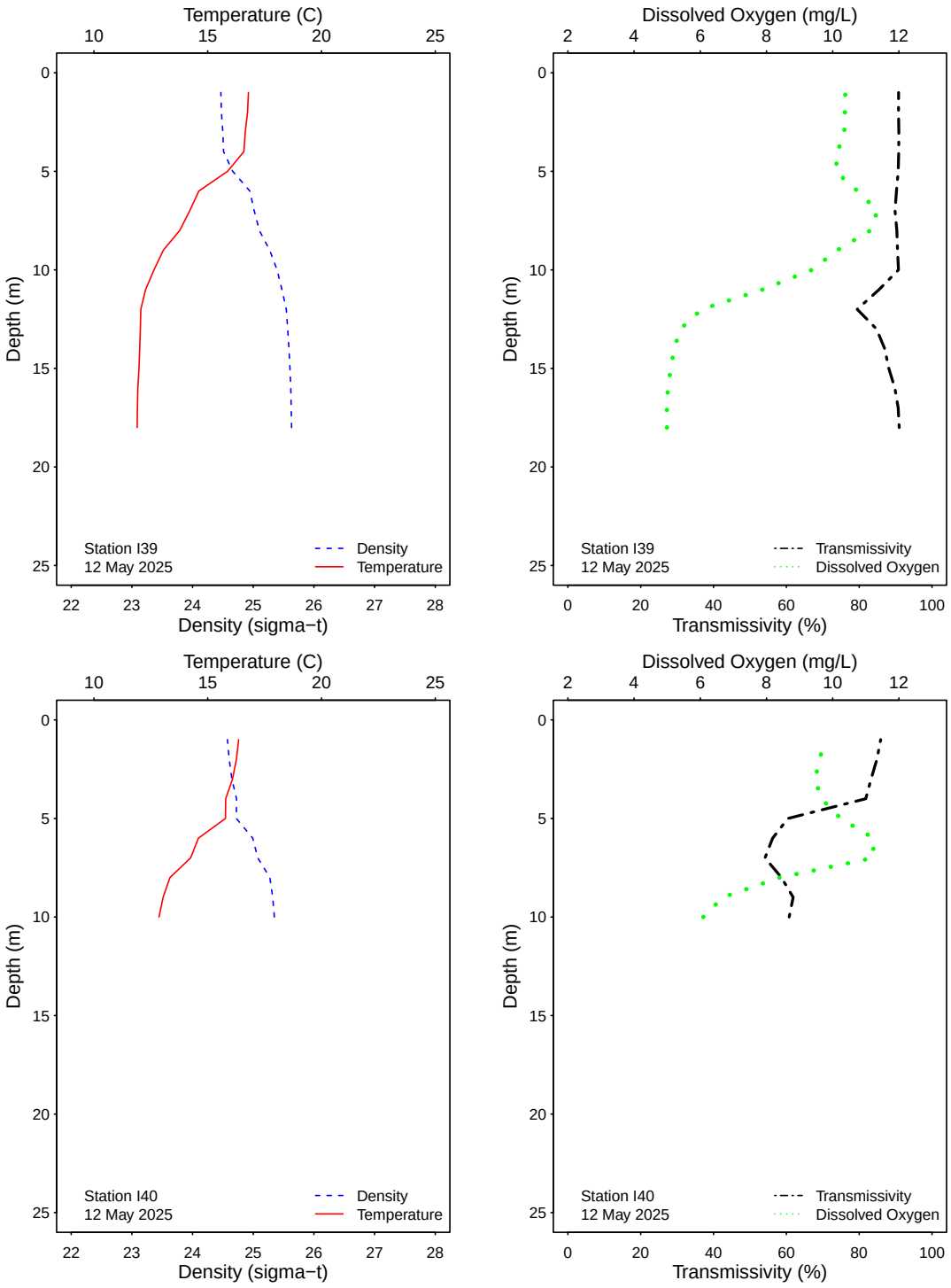

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

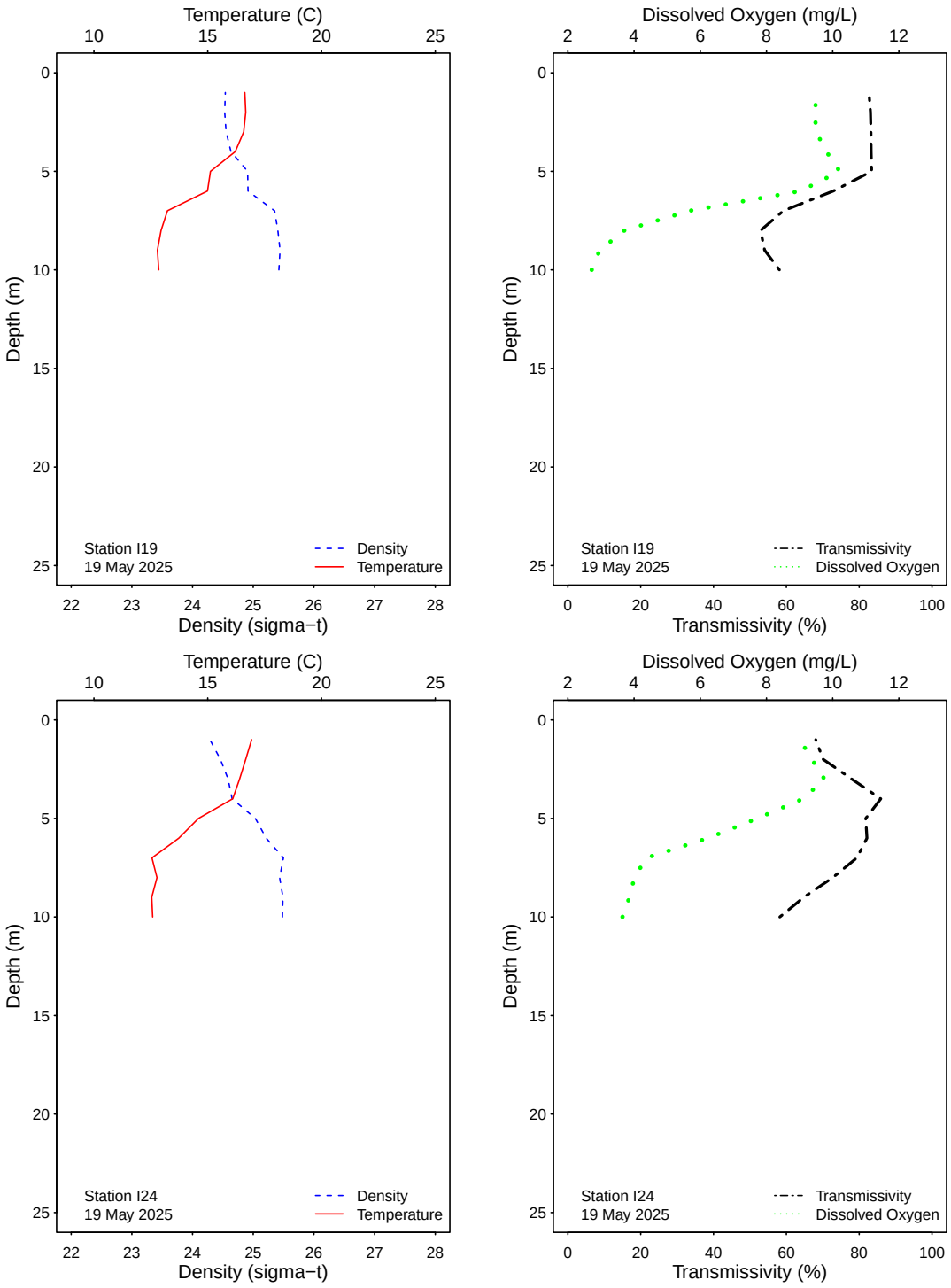

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

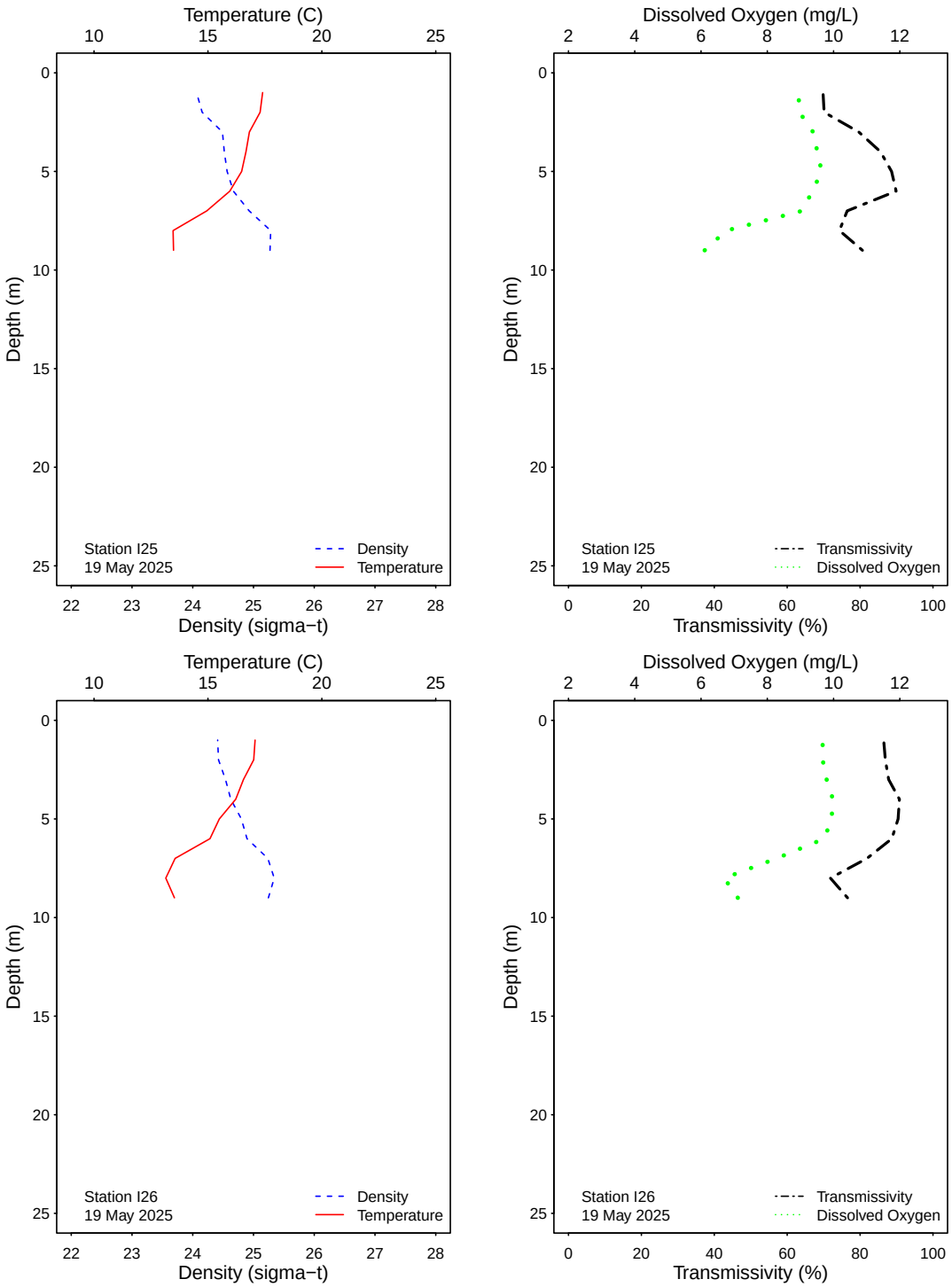

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

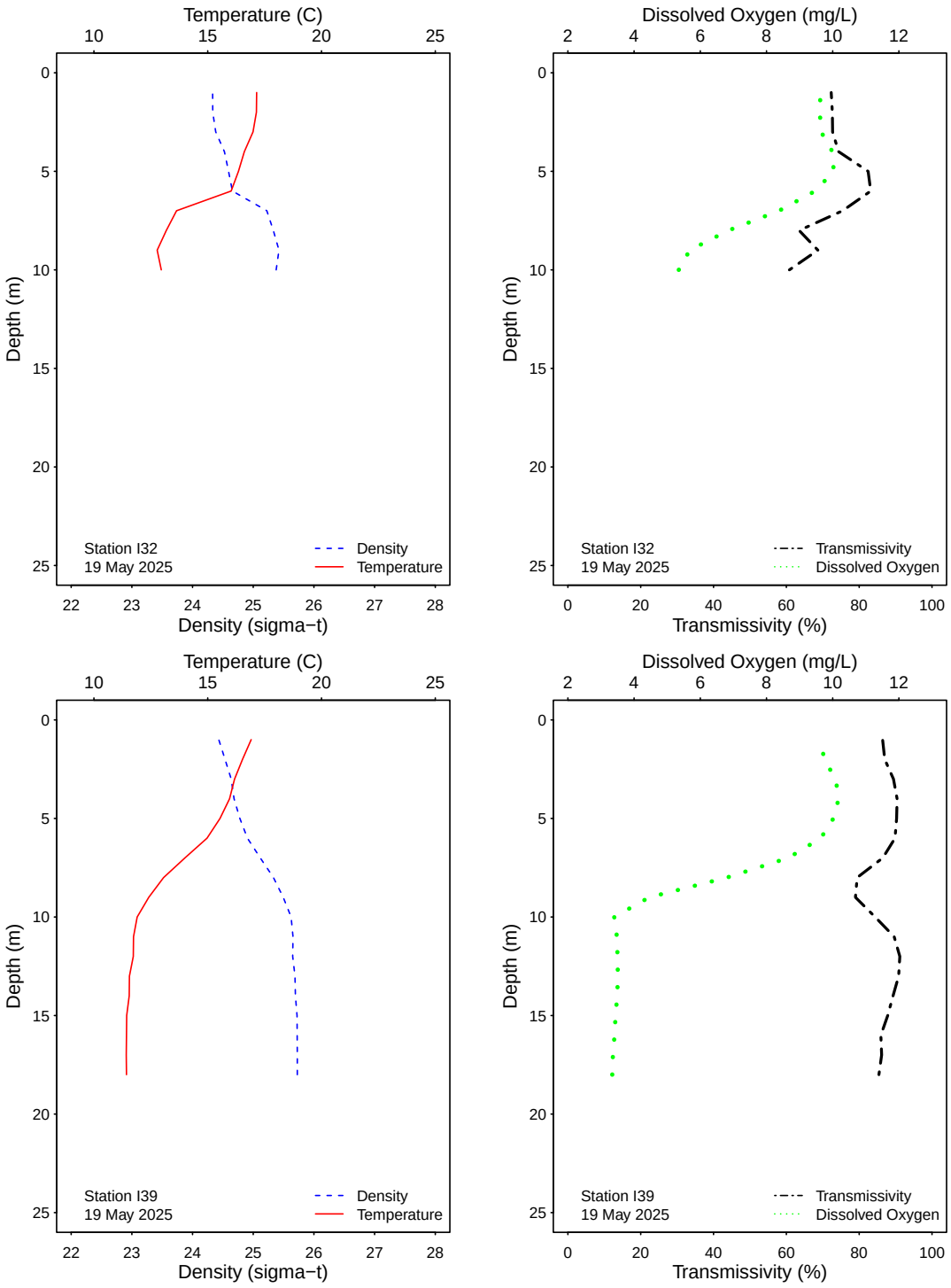

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

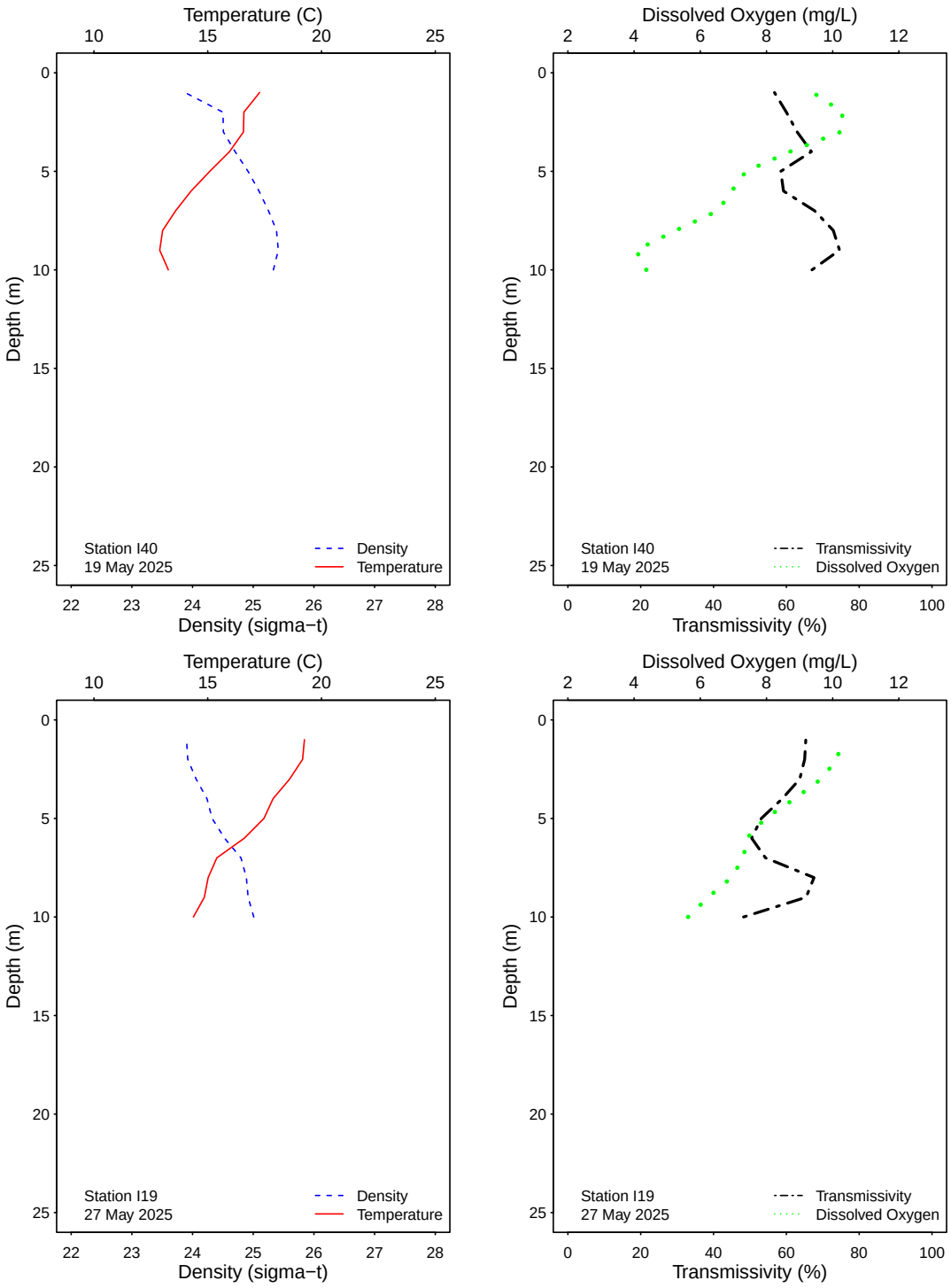

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

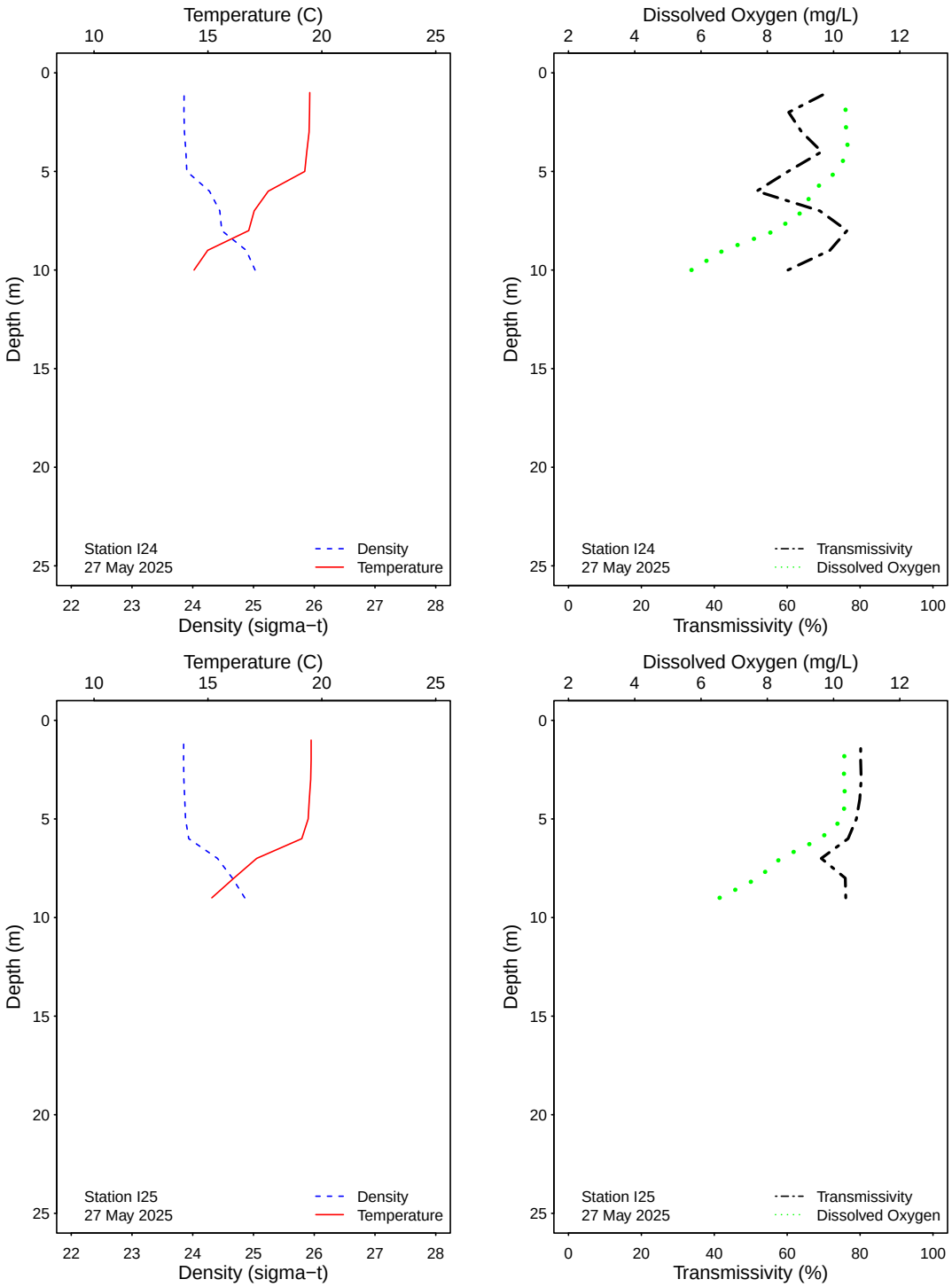

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

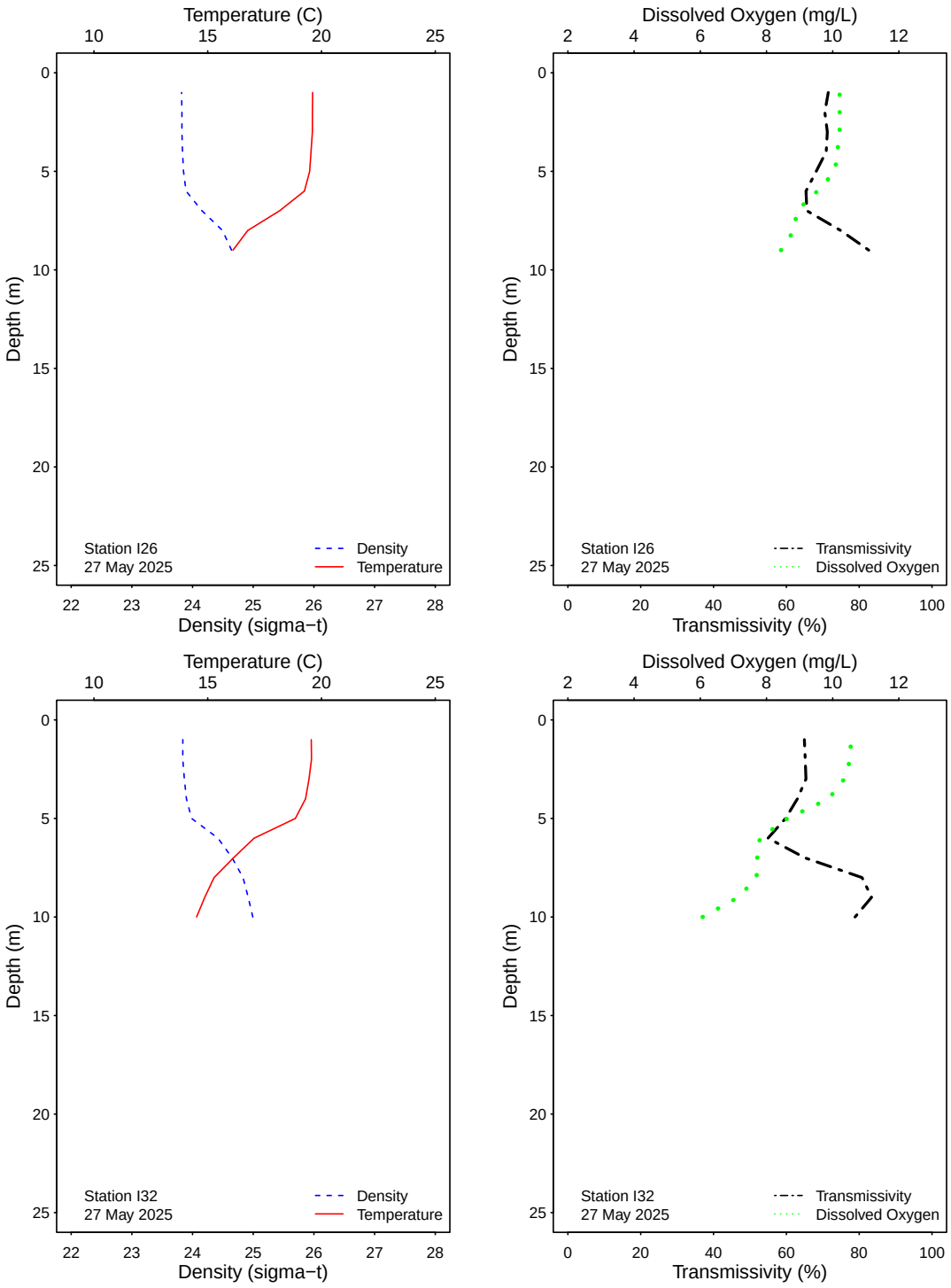

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

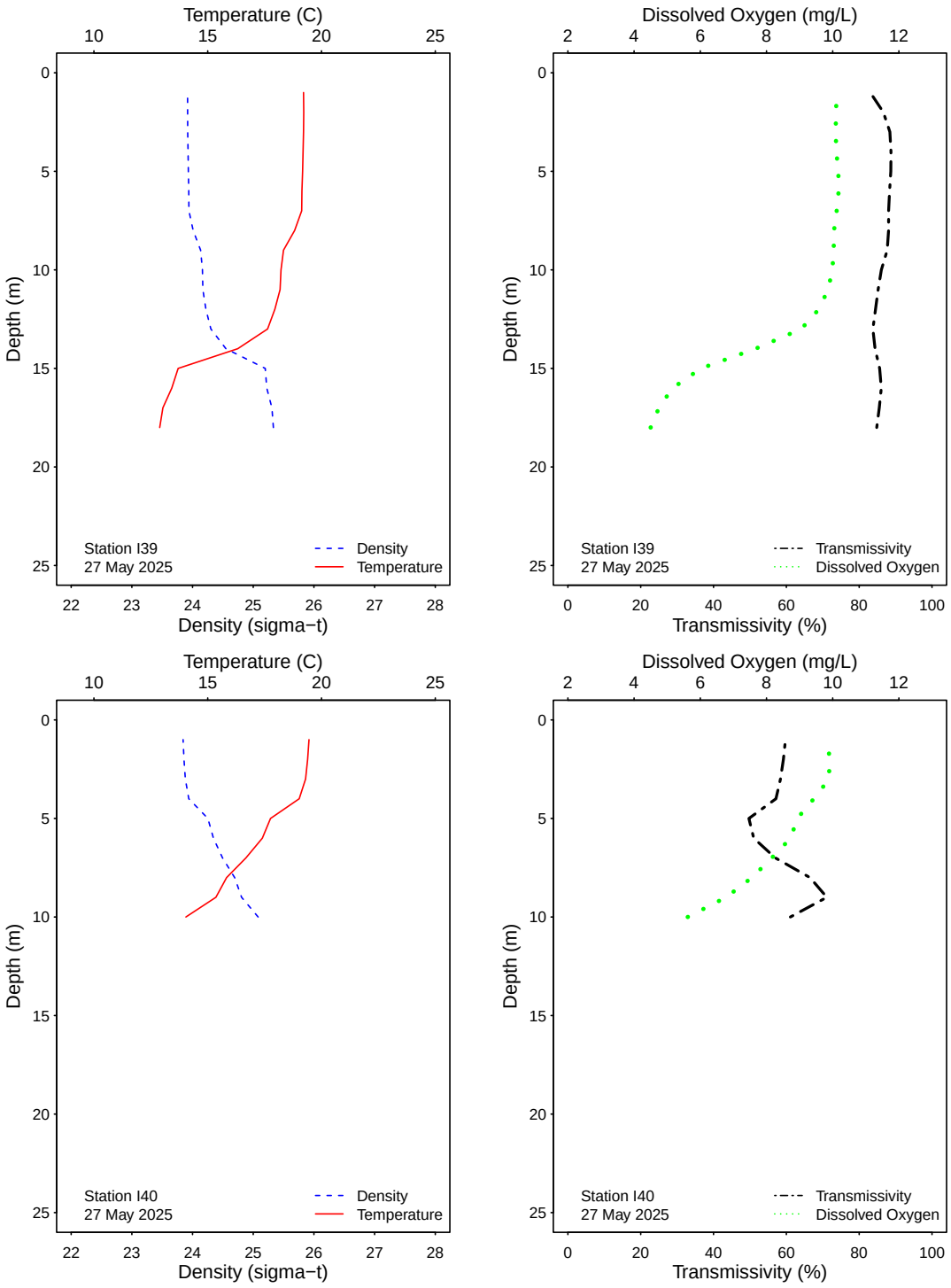

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

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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
14 May 2025	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
15 May 2025	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	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	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	13 May 2025	1202	2	<2	<2	<2
I10	13 May 2025	1202	12	80e	<2	<2
I10	13 May 2025	1202	18	1200e	2e	8e
I11	13 May 2025	1115	2	10e	2e	<2
I11	13 May 2025	1115	6	300e	34e	4e
I11	13 May 2025	1115	11	340e	14e	2e
I12	14 May 2025	1039	2	<2	<2	<2
I12	14 May 2025	1039	18	20e	4e	2e
I12	14 May 2025	1039	27	4e	<2	<2
I13	14 May 2025	1151	2	<2	<2	<2
I13	14 May 2025	1151	18	<2	<2	<2
I13	14 May 2025	1151	37	<2	<2	<2
I14	14 May 2025	1010	2	<2	<2	<2
I14	14 May 2025	1010	18	<2	<2	<2
I14	14 May 2025	1010	27	4e	<2	<2
I16	14 May 2025	1021	2	<2	<2	<2
I16	14 May 2025	1021	18	10e	<2	<2
I16	14 May 2025	1021	27	<2	<2	<2
I18	14 May 2025	951	2	<2	<2	<2
I18	14 May 2025	951	12	8e	<2	<2
I18	14 May 2025	951	18	20e	2e	<2
I20	14 May 2025	830	2	<2	<2	<2
I20	14 May 2025	830	18	<2	<2	<2
I20	14 May 2025	830	55	<2	<2	<2
I21	14 May 2025	848	2	<2	<2	<2
I21	14 May 2025	848	18	<2	<2	<2
I21	14 May 2025	848	37	<2	<2	<2
I22	14 May 2025	928	2	<2	<2	<2
I22	14 May 2025	928	18	100e	42	12e
I22	14 May 2025	928	27	4e	<2	<2
I23	14 May 2025	938	2	<2	<2	<2
I23	14 May 2025	938	12	36e	<2	<2
I23	14 May 2025	938	18	36e	<2	2e
I3	13 May 2025	1046	2	<2	<2	<2
I3	13 May 2025	1046	18	<2	<2	<2
I3	13 May 2025	1046	27	<2	<2	<2
I30	15 May 2025	921	2	4e	<2	<2
I30	15 May 2025	921	18	10e	<2	2e
I30	15 May 2025	921	27	2e	<2	<2

Station	Date	Time	Depth	Total	Fecal	Entero
I33	15 May 2025	828	2	2e	<2	<2
I33	15 May 2025	828	18	<20	<2	<2
I33	15 May 2025	828	27	8e	2e	<2
I36	15 May 2025	955	2	<2	<2	<2
I36	15 May 2025	955	6	20e	<2	<2
I36	15 May 2025	955	11	<20	<2	<2
I37	15 May 2025	805	2	<2	<2	<2
I37	15 May 2025	805	6	<2	<2	<2
I37	15 May 2025	805	11	<2	<2	<2
I38	15 May 2025	1034	2	<2	<2	<2
I38	15 May 2025	1034	6	<2	<2	<2
I38	15 May 2025	1034	11	<20	<2	<2
I5	13 May 2025	1113	2	160e	6e	<2
I5	13 May 2025	1113	6	480	14e	6e
I5	13 May 2025	1113	11	200e	18e	6e
I7	13 May 2025	901	2	<2	<2	<2
I7	13 May 2025	901	18	<2	<2	<2
I7	13 May 2025	901	52	2e	<2	<2
I8	13 May 2025	1230	2	<2	<2	<2
I8	13 May 2025	1230	18	<2	<2	<2
I8	13 May 2025	1230	37	<2	<2	<2
I9	13 May 2025	1216	2	<2	<2	<2
I9	13 May 2025	1216	18	<2	<2	<2
I9	13 May 2025	1216	27	6e	<2	2e

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	13 May 2025	Arrive Time	1046
I3	13 May 2025	Depart Time	1051
I3	13 May 2025	Air Temp (C)	16.6
I3	13 May 2025	Visibility (mi)	9
I3	13 May 2025	Wind Speed (kts)	8.7
I3	13 May 2025	Wind Dir	W
I3	13 May 2025	Sea State	Confused Swell
I3	13 May 2025	High Tide Time	2142
I3	13 May 2025	Low Tide Time	436
I3	13 May 2025	Comments	
I5	13 May 2025	Arrive Time	1113
I5	13 May 2025	Depart Time	1117
I5	13 May 2025	Air Temp (C)	17.2
I5	13 May 2025	Visibility (mi)	9
I5	13 May 2025	Wind Speed (kts)	5.1
I5	13 May 2025	Wind Dir	W
I5	13 May 2025	Sea State	Confused Swell
I5	13 May 2025	High Tide Time	2142
I5	13 May 2025	Low Tide Time	436
I5	13 May 2025	Comments	
I9	13 May 2025	Arrive Time	1216
I9	13 May 2025	Depart Time	1230
I9	13 May 2025	Air Temp (C)	17.5
I9	13 May 2025	Visibility (mi)	9
I9	13 May 2025	Wind Speed (kts)	7.1
I9	13 May 2025	Wind Dir	W
I9	13 May 2025	Sea State	Confused Swell
I9	13 May 2025	High Tide Time	2142
I9	13 May 2025	Low Tide Time	436
I9	13 May 2025	Comments	
I11	13 May 2025	Arrive Time	1150
I11	13 May 2025	Depart Time	1154
I11	13 May 2025	Air Temp (C)	18.4
I11	13 May 2025	Visibility (mi)	9
I11	13 May 2025	Wind Speed (kts)	5.2
I11	13 May 2025	Wind Dir	W
I11	13 May 2025	Sea State	Confused Swell
I11	13 May 2025	High Tide Time	2142
I11	13 May 2025	Low Tide Time	436
I11	13 May 2025	Comments	
I10	13 May 2025	Arrive Time	1202
I10	13 May 2025	Depart Time	1206
I10	13 May 2025	Air Temp (C)	18
I10	13 May 2025	Visibility (mi)	9
I10	13 May 2025	Wind Speed (kts)	9.4
I10	13 May 2025	Wind Dir	SW
I10	13 May 2025	Sea State	Confused Swell
I10	13 May 2025	High Tide Time	2142
I10	13 May 2025	Low Tide Time	436
I10	13 May 2025	Comments	
I7	13 May 2025	Arrive Time	901

Station	Date	Parameter	Value
I7	13 May 2025	Depart Time	929
I7	13 May 2025	Air Temp (C)	16.5
I7	13 May 2025	Visibility (mi)	9
I7	13 May 2025	Wind Speed (kts)	5.3
I7	13 May 2025	Wind Dir	W
I7	13 May 2025	Sea State	Confused Swell
I7	13 May 2025	High Tide Time	2142
I7	13 May 2025	Low Tide Time	436
I7	13 May 2025	Comments	drafted off station. Cast repeated.
I8	13 May 2025	Arrive Time	1230
I8	13 May 2025	Depart Time	1235
I8	13 May 2025	Air Temp (C)	17.4
I8	13 May 2025	Visibility (mi)	9
I8	13 May 2025	Wind Speed (kts)	3.5
I8	13 May 2025	Wind Dir	SW
I8	13 May 2025	Sea State	Confused Swell
I8	13 May 2025	High Tide Time	2142
I8	13 May 2025	Low Tide Time	436
I8	13 May 2025	Comments	
I12	14 May 2025	Arrive Time	1039
I12	14 May 2025	Depart Time	1045
I12	14 May 2025	Air Temp (C)	18
I12	14 May 2025	Visibility (mi)	10
I12	14 May 2025	Wind Speed (kts)	6.4
I12	14 May 2025	Wind Dir	W
I12	14 May 2025	Sea State	Regular Swell
I12	14 May 2025	High Tide Time	2212
I12	14 May 2025	Low Tide Time	512
I12	14 May 2025	Comments	
I18	14 May 2025	Arrive Time	951
I18	14 May 2025	Depart Time	955
I18	14 May 2025	Air Temp (C)	17.8
I18	14 May 2025	Visibility (mi)	10
I18	14 May 2025	Wind Speed (kts)	0
I18	14 May 2025	Wind Dir	SW
I18	14 May 2025	Sea State	Regular Swell
I18	14 May 2025	High Tide Time	2212
I18	14 May 2025	Low Tide Time	512
I18	14 May 2025	Comments	
I13	14 May 2025	Arrive Time	1151
I13	14 May 2025	Depart Time	1158
I13	14 May 2025	Air Temp (C)	18.7
I13	14 May 2025	Visibility (mi)	10
I13	14 May 2025	Wind Speed (kts)	0
I13	14 May 2025	Wind Dir	W
I13	14 May 2025	Sea State	Regular Swell
I13	14 May 2025	High Tide Time	2212
I13	14 May 2025	Low Tide Time	512
I13	14 May 2025	Comments	
I16	14 May 2025	Arrive Time	1021
I16	14 May 2025	Depart Time	1025
I16	14 May 2025	Air Temp (C)	17.8
I16	14 May 2025	Visibility (mi)	10
I16	14 May 2025	Wind Speed (kts)	5.5
I16	14 May 2025	Wind Dir	W
I16	14 May 2025	Sea State	Regular Swell

Station	Date	Parameter	Value
I16	14 May 2025	High Tide Time	2212
I16	14 May 2025	Low Tide Time	512
I16	14 May 2025	Comments	
I14	14 May 2025	Arrive Time	1010
I14	14 May 2025	Depart Time	1015
I14	14 May 2025	Air Temp (C)	18
I14	14 May 2025	Visibility (mi)	10
I14	14 May 2025	Wind Speed (kts)	0
I14	14 May 2025	Wind Dir	W
I14	14 May 2025	Sea State	Regular Swell
I14	14 May 2025	High Tide Time	2212
I14	14 May 2025	Low Tide Time	512
I14	14 May 2025	Comments	
I23	14 May 2025	Arrive Time	938
I23	14 May 2025	Depart Time	950
I23	14 May 2025	Air Temp (C)	18.5
I23	14 May 2025	Visibility (mi)	10
I23	14 May 2025	Wind Speed (kts)	0
I23	14 May 2025	Wind Dir	SW
I23	14 May 2025	Sea State	Regular Swell
I23	14 May 2025	High Tide Time	2212
I23	14 May 2025	Low Tide Time	512
I23	14 May 2025	Comments	
I22	14 May 2025	Arrive Time	928
I22	14 May 2025	Depart Time	931
I22	14 May 2025	Air Temp (C)	18.7
I22	14 May 2025	Visibility (mi)	10
I22	14 May 2025	Wind Speed (kts)	0
I22	14 May 2025	Wind Dir	NE
I22	14 May 2025	Sea State	Regular Swell
I22	14 May 2025	High Tide Time	2212
I22	14 May 2025	Low Tide Time	512
I22	14 May 2025	Comments	
I20	14 May 2025	Arrive Time	830
I20	14 May 2025	Depart Time	836
I20	14 May 2025	Air Temp (C)	17.6
I20	14 May 2025	Visibility (mi)	10
I20	14 May 2025	Wind Speed (kts)	0
I20	14 May 2025	Wind Dir	SE
I20	14 May 2025	Sea State	Regular Swell
I20	14 May 2025	High Tide Time	2212
I20	14 May 2025	Low Tide Time	512
I20	14 May 2025	Comments	
I21	14 May 2025	Arrive Time	848
I21	14 May 2025	Depart Time	901
I21	14 May 2025	Air Temp (C)	17.9
I21	14 May 2025	Visibility (mi)	10
I21	14 May 2025	Wind Speed (kts)	0
I21	14 May 2025	Wind Dir	S
I21	14 May 2025	Sea State	Regular Swell
I21	14 May 2025	High Tide Time	2212
I21	14 May 2025	Low Tide Time	512
I21	14 May 2025	Comments	OA 1m Btl# 2505142764 Nsk# 5;OA 41m Btl# 2505142765 Nsk# 1;
I30	15 May 2025	Arrive Time	921

Station	Date	Parameter	Value
I30	15 May 2025	Depart Time	927
I30	15 May 2025	Air Temp (C)	15.8
I30	15 May 2025	Visibility (mi)	10
I30	15 May 2025	Wind Speed (kts)	0
I30	15 May 2025	Wind Dir	NW
I30	15 May 2025	Sea State	Regular Swell
I30	15 May 2025	High Tide Time	2248
I30	15 May 2025	Low Tide Time	548
I30	15 May 2025	Comments	
I33	15 May 2025	Arrive Time	828
I33	15 May 2025	Depart Time	834
I33	15 May 2025	Air Temp (C)	15.9
I33	15 May 2025	Visibility (mi)	10
I33	15 May 2025	Wind Speed (kts)	0
I33	15 May 2025	Wind Dir	SE
I33	15 May 2025	Sea State	Regular Swell
I33	15 May 2025	High Tide Time	2248
I33	15 May 2025	Low Tide Time	548
I33	15 May 2025	Comments	
I36	15 May 2025	Arrive Time	955
I36	15 May 2025	Depart Time	1000
I36	15 May 2025	Air Temp (C)	17.3
I36	15 May 2025	Visibility (mi)	10
I36	15 May 2025	Wind Speed (kts)	0
I36	15 May 2025	Wind Dir	N
I36	15 May 2025	Sea State	Regular Swell
I36	15 May 2025	High Tide Time	2248
I36	15 May 2025	Low Tide Time	548
I36	15 May 2025	Comments	
I37	15 May 2025	Arrive Time	805
I37	15 May 2025	Depart Time	810
I37	15 May 2025	Air Temp (C)	15.6
I37	15 May 2025	Visibility (mi)	10
I37	15 May 2025	Wind Speed (kts)	0
I37	15 May 2025	Wind Dir	E
I37	15 May 2025	Sea State	Regular Swell
I37	15 May 2025	High Tide Time	2248
I37	15 May 2025	Low Tide Time	548
I37	15 May 2025	Comments	Kelp Debris
I38	15 May 2025	Arrive Time	1034
I38	15 May 2025	Depart Time	1048
I38	15 May 2025	Air Temp (C)	17.8
I38	15 May 2025	Visibility (mi)	10
I38	15 May 2025	Wind Speed (kts)	3.2
I38	15 May 2025	Wind Dir	W
I38	15 May 2025	Sea State	Regular Swell
I38	15 May 2025	High Tide Time	2248
I38	15 May 2025	Low Tide Time	548
I38	15 May 2025	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	13 May 2025	1	16.21	90.12	11.2	33.59	8.3	24.6	0.82
I3	13 May 2025	2	16.22	90.10	11.2	33.59	8.3	24.6	0.84
I3	13 May 2025	3	16.21	90.13	11.2	33.59	8.3	24.6	0.90
I3	13 May 2025	4	16.18	90.00	11.2	33.59	8.3	24.6	1.03
I3	13 May 2025	5	16.17	89.68	11.2	33.59	8.3	24.6	1.08
I3	13 May 2025	6	16.15	89.73	11.2	33.59	8.3	24.6	1.29
I3	13 May 2025	7	16.13	89.70	11.2	33.59	8.3	24.6	1.37
I3	13 May 2025	8	16.12	89.69	11.2	33.59	8.3	24.6	1.44
I3	13 May 2025	9	16.08	89.49	11.3	33.59	8.3	24.6	1.38
I3	13 May 2025	10	15.64	87.42	12.0	33.60	8.3	24.7	3.41
I3	13 May 2025	11	14.74	77.70	11.7	33.62	8.3	25.0	7.96
I3	13 May 2025	12	13.87	66.71	9.8	33.64	8.2	25.2	13.67
I3	13 May 2025	13	13.00	67.63	6.8	33.66	7.9	25.4	21.35
I3	13 May 2025	14	12.94	81.56	6.2	33.64	7.9	25.4	18.30
I3	13 May 2025	15	12.51	86.01	5.5	33.64	7.8	25.4	8.47
I3	13 May 2025	16	12.43	90.37	5.2	33.65	7.8	25.5	3.85
I3	13 May 2025	17	12.26	92.16	5.3	33.67	7.8	25.5	4.20
I3	13 May 2025	18	11.95	93.72	5.3	33.68	7.8	25.6	1.64
I3	13 May 2025	19	11.86	94.81	5.0	33.69	7.8	25.6	1.48
I3	13 May 2025	20	11.69	94.48	4.8	33.73	7.8	25.7	1.06
I3	13 May 2025	21	11.69	93.44	4.6	33.73	7.8	25.7	0.84
I3	13 May 2025	22	11.69	93.06	4.5	33.73	7.8	25.7	0.82
I3	13 May 2025	23	11.69	92.64	4.5	33.74	7.8	25.7	0.88
I3	13 May 2025	24	11.69	92.38	4.5	33.74	7.8	25.7	0.90
I3	13 May 2025	25	11.69	92.51	4.5	33.74	7.8	25.7	0.80
I3	13 May 2025	26	11.69	92.42	4.4	33.74	7.8	25.7	0.82
I3	13 May 2025	27	11.70	92.40	4.4	33.74	7.8	25.7	0.84
I4	13 May 2025	1	16.40	80.80	11.1	33.59	8.3	24.6	2.06
I4	13 May 2025	2	16.38	79.16	11.1	33.59	8.3	24.6	2.24
I4	13 May 2025	3	16.36	79.81	11.0	33.59	8.3	24.6	3.12
I4	13 May 2025	4	16.16	77.17	10.8	33.59	8.3	24.6	4.65
I4	13 May 2025	5	16.01	73.93	10.5	33.60	8.3	24.7	6.00
I4	13 May 2025	6	15.54	75.76	10.0	33.63	8.2	24.8	5.39
I4	13 May 2025	7	14.36	77.43	9.6	33.67	8.2	25.1	5.81
I4	13 May 2025	8	13.38	71.34	8.5	33.68	8.1	25.3	16.43
I4	13 May 2025	9	13.20	61.42	7.4	33.66	8.0	25.3	27.28
I4	13 May 2025	10	12.90	76.14	6.3	33.65	7.9	25.4	13.49
I4	13 May 2025	11	12.73	85.30	5.8	33.64	7.8	25.4	10.00
I4	13 May 2025	12	12.53	86.63	5.4	33.67	7.8	25.5	5.58
I4	13 May 2025	13	12.59	88.39	5.2	33.68	7.8	25.5	4.80
I4	13 May 2025	14	12.52	88.32	5.3	33.74	7.8	25.5	2.84
I4	13 May 2025	15	12.48	87.24	5.3	33.75	7.8	25.5	1.98
I4	13 May 2025	16	12.47	85.88	5.3	33.75	7.8	25.5	1.43
I4	13 May 2025	17	12.46	84.50	5.2	33.75	7.8	25.5	1.70
I4	13 May 2025	18	12.45	83.56	5.2	33.75	7.8	25.5	1.63
I5	13 May 2025	1	16.33	65.91	10.2	33.45	8.2	24.5	1.91
I5	13 May 2025	2	16.31	75.88	10.1	33.54	8.2	24.6	1.90
I5	13 May 2025	3	16.07	76.76	9.6	33.59	8.2	24.6	2.84
I5	13 May 2025	4	15.35	71.20	9.2	33.62	8.2	24.8	3.39
I5	13 May 2025	5	14.90	69.47	8.9	33.65	8.1	25.0	4.20
I5	13 May 2025	6	14.21	72.50	8.6	33.69	8.1	25.1	5.40
I5	13 May 2025	7	13.55	77.09	8.0	33.73	8.0	25.3	5.71
I5	13 May 2025	8	13.34	85.51	7.4	33.73	8.0	25.3	3.71

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I5	13 May 2025	9	13.16	83.62	7.0	33.73	7.9	25.4	3.48
I5	13 May 2025	10	13.00	82.79	6.5	33.74	7.9	25.4	2.84
I5	13 May 2025	11	12.99	81.53	6.3	33.74	7.9	25.4	2.60
I5	13 May 2025	12	12.98	80.42	6.3	33.74	7.9	25.4	2.59
I5	13 May 2025	13	12.91	78.08	6.1	33.74	7.9	25.4	2.43
I5	13 May 2025	14	12.89	75.09	6.0	33.75	7.9	25.4	2.47
I1	13 May 2025	1	14.98	90.98	8.4	33.56	8.1	24.9	1.15
I1	13 May 2025	2	14.98	90.69	8.4	33.57	8.1	24.9	1.24
I1	13 May 2025	3	14.95	91.07	8.4	33.57	8.1	24.9	1.37
I1	13 May 2025	4	14.91	90.63	8.4	33.57	8.1	24.9	1.70
I1	13 May 2025	5	14.89	90.46	8.4	33.58	8.1	24.9	2.03
I1	13 May 2025	6	14.86	90.17	8.4	33.58	8.1	24.9	2.04
I1	13 May 2025	7	14.79	89.79	8.3	33.59	8.1	24.9	2.53
I1	13 May 2025	8	14.28	89.45	8.0	33.61	8.1	25.1	3.05
I1	13 May 2025	9	13.98	89.14	7.7	33.61	8.1	25.1	3.43
I1	13 May 2025	10	13.41	89.35	7.3	33.63	8.0	25.2	3.34
I1	13 May 2025	11	13.07	90.55	6.8	33.61	8.0	25.3	3.27
I1	13 May 2025	12	11.90	92.68	5.9	33.66	7.9	25.6	2.34
I1	13 May 2025	13	11.82	94.70	5.5	33.66	7.8	25.6	1.71
I1	13 May 2025	14	11.72	95.38	5.3	33.67	7.8	25.6	1.58
I1	13 May 2025	15	11.57	95.63	5.1	33.66	7.8	25.6	1.49
I1	13 May 2025	16	11.20	95.60	5.0	33.64	7.8	25.7	1.14
I1	13 May 2025	17	11.19	97.28	4.8	33.64	7.8	25.7	1.10
I1	13 May 2025	18	10.96	97.25	4.7	33.66	7.8	25.7	0.95
I1	13 May 2025	19	10.95	97.17	4.5	33.70	7.8	25.8	0.84
I1	13 May 2025	20	10.99	97.05	4.5	33.70	7.8	25.8	0.84
I1	13 May 2025	21	10.99	97.08	4.3	33.74	7.8	25.8	0.84
I1	13 May 2025	22	10.98	96.42	4.2	33.74	7.7	25.8	0.73
I1	13 May 2025	23	10.97	96.84	4.2	33.75	7.7	25.8	0.73
I1	13 May 2025	24	10.93	96.97	4.1	33.75	7.7	25.8	0.75
I1	13 May 2025	25	10.91	96.97	4.1	33.75	7.7	25.8	0.63
I1	13 May 2025	26	10.90	96.89	4.1	33.75	7.7	25.8	0.60
I1	13 May 2025	27	10.88	96.99	4.1	33.75	7.7	25.8	0.60
I1	13 May 2025	28	10.87	96.81	4.1	33.75	7.7	25.8	0.61
I1	13 May 2025	29	10.86	97.05	4.1	33.75	7.7	25.8	0.60
I1	13 May 2025	30	10.85	97.19	4.1	33.74	7.7	25.8	0.63
I1	13 May 2025	31	10.84	97.31	4.1	33.74	7.7	25.8	0.66
I1	13 May 2025	32	10.84	97.27	4.1	33.75	7.7	25.8	0.66
I1	13 May 2025	33	10.85	97.29	4.1	33.75	7.7	25.8	0.58
I1	13 May 2025	34	10.85	97.15	4.1	33.75	7.7	25.8	0.58
I1	13 May 2025	35	10.85	96.97	4.1	33.75	7.7	25.8	0.58
I1	13 May 2025	36	10.85	97.26	4.0	33.76	7.7	25.8	0.59
I1	13 May 2025	37	10.83	97.18	4.0	33.76	7.7	25.8	0.57
I1	13 May 2025	38	10.82	97.29	4.0	33.77	7.7	25.8	0.57
I1	13 May 2025	39	10.79	97.36	3.9	33.79	7.7	25.9	0.49
I1	13 May 2025	40	10.78	97.28	3.8	33.81	7.7	25.9	0.47
I1	13 May 2025	41	10.77	97.20	3.7	33.81	7.7	25.9	0.44
I1	13 May 2025	42	10.77	97.05	3.7	33.82	7.7	25.9	0.42
I1	13 May 2025	43	10.77	97.10	3.6	33.82	7.7	25.9	0.44
I1	13 May 2025	44	10.77	97.23	3.6	33.83	7.7	25.9	0.44
I1	13 May 2025	45	10.78	97.21	3.6	33.83	7.7	25.9	0.46
I1	13 May 2025	46	10.79	96.86	3.6	33.83	7.7	25.9	0.46
I1	13 May 2025	47	10.79	97.10	3.5	33.84	7.7	25.9	0.44
I1	13 May 2025	48	10.79	97.17	3.5	33.84	7.7	25.9	0.45
I1	13 May 2025	49	10.79	97.08	3.5	33.85	7.7	25.9	0.48
I1	13 May 2025	50	10.79	96.86	3.5	33.85	7.7	25.9	0.41
I1	13 May 2025	51	10.78	96.79	3.4	33.86	7.7	25.9	0.40
I1	13 May 2025	52	10.73	96.94	3.3	33.88	7.7	25.9	0.38
I1	13 May 2025	53	10.71	96.72	3.3	33.88	7.7	26.0	0.35
I1	13 May 2025	54	10.70	96.87	3.2	33.88	7.7	26.0	0.28

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I1	13 May 2025	55	10.70	96.94	3.2	33.88	7.7	26.0	0.28
I1	13 May 2025	56	10.70	96.95	3.2	33.89	7.7	26.0	0.29
I1	13 May 2025	57	10.69	96.98	3.2	33.89	7.7	26.0	0.30
I1	13 May 2025	58	10.66	96.89	3.1	33.90	7.7	26.0	0.27
I1	13 May 2025	59	10.57	96.90	3.1	33.92	7.6	26.0	0.24
I1	13 May 2025	60	10.58	96.80	3.0	33.92	7.6	26.0	0.29
I2	13 May 2025	1	15.89	73.30	10.5	33.62	8.3	24.7	1.54
I2	13 May 2025	2	15.90	76.34	10.5	33.63	8.3	24.7	1.52
I2	13 May 2025	3	15.89	83.56	10.5	33.63	8.3	24.7	1.80
I2	13 May 2025	4	15.85	83.94	10.5	33.63	8.3	24.7	2.09
I2	13 May 2025	5	15.83	83.71	10.5	33.63	8.3	24.7	2.67
I2	13 May 2025	6	15.80	83.67	10.6	33.63	8.3	24.7	2.90
I2	13 May 2025	7	15.79	83.68	10.6	33.63	8.3	24.7	3.15
I2	13 May 2025	8	15.77	83.10	10.6	33.63	8.3	24.7	3.80
I2	13 May 2025	9	15.75	80.66	10.6	33.63	8.3	24.7	5.27
I2	13 May 2025	10	15.49	67.11	10.7	33.61	8.3	24.8	19.58
I2	13 May 2025	11	15.12	65.47	10.5	33.62	8.2	24.9	20.43
I2	13 May 2025	12	14.06	68.42	9.0	33.64	8.2	25.1	21.29
I2	13 May 2025	13	13.73	73.47	7.3	33.66	8.0	25.2	19.95
I2	13 May 2025	14	13.46	81.77	6.3	33.67	7.9	25.3	10.90
I2	13 May 2025	15	12.97	86.65	5.9	33.66	7.9	25.4	5.36
I2	13 May 2025	16	12.64	89.07	5.9	33.65	7.9	25.4	3.91
I2	13 May 2025	17	11.90	91.73	5.6	33.62	7.8	25.5	3.02
I2	13 May 2025	18	11.78	95.32	5.2	33.61	7.8	25.6	1.52
I2	13 May 2025	19	11.70	95.85	5.1	33.62	7.8	25.6	1.69
I2	13 May 2025	20	11.39	95.92	4.9	33.67	7.8	25.7	1.40
I2	13 May 2025	21	11.32	96.32	4.7	33.68	7.8	25.7	1.07
I2	13 May 2025	22	11.23	96.50	4.5	33.71	7.8	25.7	0.68
I2	13 May 2025	23	11.23	96.45	4.4	33.71	7.8	25.7	0.69
I2	13 May 2025	24	11.23	96.42	4.4	33.71	7.8	25.7	0.70
I2	13 May 2025	25	11.23	96.15	4.3	33.72	7.8	25.7	0.69
I2	13 May 2025	26	11.23	95.89	4.3	33.72	7.8	25.7	0.67
I2	13 May 2025	27	11.23	95.69	4.3	33.72	7.8	25.7	0.73
I2	13 May 2025	28	11.22	95.88	4.3	33.72	7.8	25.7	0.68
I2	13 May 2025	29	11.22	95.68	4.3	33.72	7.8	25.7	0.81
I2	13 May 2025	30	11.22	95.41	4.3	33.72	7.8	25.7	0.76
I2	13 May 2025	31	11.22	95.41	4.3	33.72	7.8	25.7	0.73
I2	13 May 2025	32	11.22	95.40	4.3	33.72	7.7	25.7	0.69
I6	13 May 2025	1	16.57	88.53	11.2	33.59	8.3	24.5	0.80
I6	13 May 2025	2	16.57	89.24	11.2	33.59	8.3	24.5	0.72
I6	13 May 2025	3	16.55	89.32	11.2	33.59	8.3	24.5	0.78
I6	13 May 2025	4	16.52	89.25	11.2	33.59	8.3	24.5	0.84
I6	13 May 2025	5	16.46	89.14	11.2	33.59	8.3	24.6	0.93
I6	13 May 2025	6	16.42	88.96	11.4	33.59	8.3	24.6	0.91
I6	13 May 2025	7	16.13	86.22	12.3	33.59	8.4	24.6	3.66
I6	13 May 2025	8	15.93	64.96	12.8	33.60	8.4	24.7	15.86
I6	13 May 2025	9	14.34	67.87	12.7	33.65	8.4	25.1	14.09
I6	13 May 2025	10	13.70	69.21	10.9	33.65	8.2	25.2	17.38
I6	13 May 2025	11	13.24	73.04	8.5	33.62	8.1	25.3	15.82
I6	13 May 2025	12	12.79	84.05	6.0	33.64	7.8	25.4	6.86
I6	13 May 2025	13	12.53	86.33	5.3	33.63	7.8	25.4	7.64
I6	13 May 2025	14	12.15	88.81	4.9	33.62	7.8	25.5	4.45
I6	13 May 2025	15	11.89	92.87	4.7	33.62	7.7	25.5	2.05
I6	13 May 2025	16	11.89	94.24	4.9	33.68	7.8	25.6	1.62
I6	13 May 2025	17	11.93	94.58	5.0	33.71	7.8	25.6	1.00
I6	13 May 2025	18	11.91	93.34	4.8	33.73	7.8	25.6	0.92
I6	13 May 2025	19	11.91	92.36	4.8	33.74	7.8	25.6	0.95
I6	13 May 2025	20	11.92	92.11	4.7	33.73	7.8	25.6	1.05
I6	13 May 2025	21	11.91	89.39	4.7	33.74	7.8	25.6	1.04

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I6	13 May 2025	22	11.92	87.34	4.7	33.74	7.8	25.6	1.16
I6	13 May 2025	23	11.91	85.33	4.6	33.75	7.8	25.6	1.26
I6	13 May 2025	24	11.92	85.78	4.6	33.74	7.8	25.6	1.36
I6	13 May 2025	25	11.92	82.31	4.6	33.75	7.8	25.6	1.29
I6	13 May 2025	26	11.92	78.82	4.6	33.75	7.8	25.6	1.32
I9	13 May 2025	1	16.57	53.55	10.3	33.49	8.3	24.5	1.57
I9	13 May 2025	2	16.58	80.91	10.4	33.59	8.3	24.5	1.61
I9	13 May 2025	3	16.55	83.95	10.4	33.60	8.3	24.5	1.80
I9	13 May 2025	4	16.45	84.80	10.3	33.60	8.3	24.6	1.81
I9	13 May 2025	5	16.38	86.34	10.7	33.60	8.3	24.6	1.86
I9	13 May 2025	6	16.13	78.17	11.9	33.59	8.3	24.6	8.82
I9	13 May 2025	7	16.11	77.50	11.6	33.59	8.3	24.6	12.13
I9	13 May 2025	8	15.91	76.38	11.2	33.60	8.3	24.7	11.81
I9	13 May 2025	9	15.84	75.20	11.4	33.60	8.3	24.7	12.57
I9	13 May 2025	10	15.71	75.62	11.5	33.61	8.3	24.7	12.52
I9	13 May 2025	11	15.51	75.47	11.1	33.59	8.3	24.8	12.58
I9	13 May 2025	12	13.99	76.47	10.7	33.58	8.2	25.1	13.01
I9	13 May 2025	13	13.92	75.98	9.9	33.57	8.2	25.1	14.29
I9	13 May 2025	14	13.42	75.17	8.0	33.59	8.1	25.2	15.64
I9	13 May 2025	15	13.21	81.64	6.3	33.62	7.9	25.3	11.09
I9	13 May 2025	16	12.61	86.96	5.4	33.66	7.8	25.4	7.76
I9	13 May 2025	17	12.26	91.09	4.8	33.66	7.8	25.5	3.03
I9	13 May 2025	18	11.79	93.16	4.8	33.65	7.8	25.6	2.02
I9	13 May 2025	19	11.85	94.97	4.8	33.66	7.8	25.6	1.71
I9	13 May 2025	20	11.77	94.90	4.7	33.71	7.8	25.6	1.58
I9	13 May 2025	21	11.80	94.54	4.6	33.75	7.8	25.7	0.81
I9	13 May 2025	22	11.81	93.35	4.6	33.75	7.8	25.7	0.70
I9	13 May 2025	23	11.82	93.24	4.5	33.76	7.8	25.7	0.84
I9	13 May 2025	24	11.83	92.85	4.5	33.76	7.8	25.7	0.72
I9	13 May 2025	25	11.83	92.44	4.5	33.76	7.8	25.7	0.72
I9	13 May 2025	26	11.84	92.28	4.5	33.77	7.8	25.7	0.78
I9	13 May 2025	27	11.85	92.12	4.4	33.77	7.8	25.7	0.78
I9	13 May 2025	28	11.85	92.39	4.4	33.77	7.8	25.7	0.76
I9	13 May 2025	29	11.85	91.23	4.4	33.77	7.8	25.7	0.85
I11	13 May 2025	1	16.70	77.94	10.3	33.58	8.3	24.5	1.90
I11	13 May 2025	2	16.68	77.83	10.2	33.58	8.3	24.5	2.10
I11	13 May 2025	3	16.61	77.42	10.1	33.57	8.3	24.5	2.26
I11	13 May 2025	4	16.29	75.40	9.7	33.57	8.2	24.6	3.69
I11	13 May 2025	5	15.85	72.38	9.3	33.60	8.2	24.7	5.00
I11	13 May 2025	6	15.00	77.57	9.3	33.63	8.2	24.9	3.91
I11	13 May 2025	7	13.58	80.25	9.2	33.70	8.1	25.3	4.63
I11	13 May 2025	8	13.33	84.53	7.9	33.70	8.0	25.3	4.33
I11	13 May 2025	9	13.09	85.11	6.8	33.71	7.9	25.4	3.07
I11	13 May 2025	10	13.06	83.87	6.3	33.72	7.9	25.4	2.01
I11	13 May 2025	11	13.05	83.17	6.2	33.72	7.9	25.4	1.85
I11	13 May 2025	12	13.06	83.12	6.2	33.72	7.9	25.4	1.74
I11	13 May 2025	13	13.07	83.48	6.1	33.73	7.9	25.4	1.77
I10	13 May 2025	1	16.73	73.42	10.4	33.51	8.3	24.4	0.76
I10	13 May 2025	2	16.73	87.85	10.4	33.58	8.3	24.5	0.50
I10	13 May 2025	3	16.69	87.75	10.4	33.59	8.3	24.5	0.69
I10	13 May 2025	4	16.68	87.39	10.4	33.59	8.3	24.5	0.78
I10	13 May 2025	5	16.62	87.23	10.5	33.59	8.3	24.5	0.84
I10	13 May 2025	6	16.53	85.92	10.7	33.59	8.3	24.5	1.47
I10	13 May 2025	7	16.40	84.31	11.2	33.58	8.3	24.6	3.75
I10	13 May 2025	8	16.07	62.89	11.8	33.59	8.3	24.7	15.97
I10	13 May 2025	9	15.68	68.78	11.7	33.61	8.3	24.7	15.75
I10	13 May 2025	10	14.12	70.46	11.3	33.67	8.3	25.1	14.24
I10	13 May 2025	11	13.22	68.20	8.9	33.69	8.1	25.3	18.06

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I10	13 May 2025	12	12.88	73.64	6.3	33.69	7.9	25.4	13.61
I10	13 May 2025	13	12.86	77.80	5.5	33.66	7.8	25.4	12.99
I10	13 May 2025	14	12.25	77.72	5.0	33.73	7.8	25.6	11.29
I10	13 May 2025	15	12.26	86.15	4.8	33.75	7.8	25.6	3.13
I10	13 May 2025	16	12.25	87.76	4.8	33.75	7.8	25.6	1.94
I10	13 May 2025	17	12.27	87.68	4.7	33.75	7.8	25.6	1.51
I10	13 May 2025	18	12.25	86.27	4.7	33.75	7.8	25.6	1.81
I10	13 May 2025	19	12.25	87.69	4.7	33.76	7.8	25.6	1.32
I7	13 May 2025	1	16.05	92.77	8.6	33.57	8.1	24.6	0.76
I7	13 May 2025	2	16.05	93.26	8.6	33.57	8.1	24.6	0.72
I7	13 May 2025	3	15.99	92.45	8.6	33.57	8.1	24.6	0.80
I7	13 May 2025	4	15.89	93.30	8.4	33.57	8.1	24.7	0.87
I7	13 May 2025	5	15.31	93.17	8.3	33.56	8.1	24.8	1.01
I7	13 May 2025	6	14.58	92.28	8.2	33.56	8.1	25.0	1.50
I7	13 May 2025	7	13.86	89.20	7.8	33.59	8.1	25.1	2.42
I7	13 May 2025	8	12.38	82.62	6.8	33.66	8.0	25.5	4.32
I7	13 May 2025	9	12.05	88.81	6.1	33.65	7.9	25.5	2.93
I7	13 May 2025	10	12.00	92.27	5.8	33.64	7.9	25.5	2.11
I7	13 May 2025	11	12.00	92.86	5.7	33.64	7.9	25.5	2.52
I7	13 May 2025	12	11.96	92.91	5.7	33.64	7.9	25.5	2.48
I7	13 May 2025	13	11.89	92.94	5.6	33.64	7.9	25.6	2.59
I7	13 May 2025	14	11.82	92.96	5.5	33.64	7.9	25.6	2.63
I7	13 May 2025	15	11.59	93.75	5.3	33.66	7.8	25.6	2.18
I7	13 May 2025	16	11.48	94.74	5.2	33.65	7.8	25.6	2.08
I7	13 May 2025	17	11.38	95.64	5.1	33.64	7.8	25.6	1.60
I7	13 May 2025	18	11.34	95.85	5.1	33.64	7.8	25.7	1.64
I7	13 May 2025	19	11.28	96.05	5.1	33.65	7.8	25.7	1.69
I7	13 May 2025	20	11.18	96.02	5.0	33.66	7.8	25.7	1.49
I7	13 May 2025	21	11.21	95.89	5.0	33.65	7.8	25.7	1.56
I7	13 May 2025	22	11.15	95.75	4.9	33.67	7.8	25.7	1.41
I7	13 May 2025	23	11.14	96.17	4.9	33.67	7.8	25.7	1.36
I7	13 May 2025	24	11.13	96.17	4.8	33.67	7.8	25.7	1.19
I7	13 May 2025	25	11.12	96.10	4.8	33.67	7.8	25.7	1.27
I7	13 May 2025	26	11.11	96.30	4.8	33.68	7.8	25.7	1.23
I7	13 May 2025	27	11.08	96.42	4.8	33.68	7.8	25.7	1.11
I7	13 May 2025	28	11.02	96.60	4.7	33.69	7.8	25.8	1.01
I7	13 May 2025	29	10.95	96.65	4.5	33.72	7.8	25.8	0.90
I7	13 May 2025	30	10.98	97.11	4.4	33.72	7.8	25.8	1.00
I7	13 May 2025	31	10.91	97.21	4.3	33.75	7.7	25.8	0.81
I7	13 May 2025	32	10.91	97.30	4.2	33.75	7.7	25.8	0.71
I7	13 May 2025	33	10.91	97.30	4.2	33.75	7.7	25.8	0.68
I7	13 May 2025	34	10.89	97.32	4.1	33.77	7.7	25.8	0.69
I7	13 May 2025	35	10.88	97.33	4.1	33.77	7.7	25.8	0.69
I7	13 May 2025	36	10.76	97.14	4.0	33.77	7.7	25.9	0.69
I7	13 May 2025	37	10.69	97.66	3.9	33.80	7.7	25.9	0.58
I7	13 May 2025	38	10.68	97.73	3.9	33.80	7.7	25.9	0.59
I7	13 May 2025	39	10.68	97.81	3.8	33.82	7.7	25.9	0.52
I7	13 May 2025	40	10.71	97.74	3.7	33.83	7.7	25.9	0.53
I7	13 May 2025	41	10.77	97.43	3.6	33.85	7.7	25.9	0.43
I7	13 May 2025	42	10.77	97.20	3.5	33.85	7.7	25.9	0.44
I7	13 May 2025	43	10.77	97.07	3.5	33.86	7.7	25.9	0.48
I7	13 May 2025	44	10.77	96.82	3.4	33.86	7.7	25.9	0.49
I7	13 May 2025	45	10.77	96.95	3.4	33.86	7.7	25.9	0.47
I7	13 May 2025	46	10.77	96.87	3.4	33.86	7.7	25.9	0.45
I7	13 May 2025	47	10.77	96.87	3.4	33.86	7.7	25.9	0.46
I7	13 May 2025	48	10.77	96.87	3.4	33.86	7.7	25.9	0.46
I7	13 May 2025	49	10.75	96.75	3.3	33.86	7.7	25.9	0.46
I7	13 May 2025	50	10.71	96.66	3.2	33.88	7.7	26.0	0.46
I7	13 May 2025	51	10.67	96.56	3.1	33.90	7.7	26.0	0.45
I7	13 May 2025	52	10.69	96.27	3.1	33.90	7.6	26.0	0.43

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I8	13 May 2025	1	15.92	87.99	9.1	33.59	8.2	24.7	0.80
I8	13 May 2025	2	15.90	87.99	9.1	33.59	8.2	24.7	0.85
I8	13 May 2025	3	15.86	87.65	9.1	33.59	8.2	24.7	1.01
I8	13 May 2025	4	15.78	87.56	9.2	33.59	8.2	24.7	1.11
I8	13 May 2025	5	15.71	86.98	9.3	33.59	8.2	24.7	1.36
I8	13 May 2025	6	15.65	85.85	9.4	33.60	8.2	24.7	1.63
I8	13 May 2025	7	15.62	85.31	9.4	33.59	8.2	24.8	1.71
I8	13 May 2025	8	15.38	85.02	9.7	33.61	8.2	24.8	2.46
I8	13 May 2025	9	15.18	79.94	9.9	33.61	8.2	24.9	7.14
I8	13 May 2025	10	14.72	69.21	10.2	33.63	8.2	25.0	14.93
I8	13 May 2025	11	14.64	73.87	10.0	33.62	8.2	25.0	15.01
I8	13 May 2025	12	14.47	78.08	9.8	33.62	8.2	25.0	10.59
I8	13 May 2025	13	13.57	73.92	8.8	33.65	8.1	25.2	18.44
I8	13 May 2025	14	13.36	66.78	8.0	33.63	8.1	25.3	24.55
I8	13 May 2025	15	13.11	71.81	7.2	33.62	8.0	25.3	18.99
I8	13 May 2025	16	12.72	80.36	6.0	33.66	7.9	25.4	10.75
I8	13 May 2025	17	12.59	88.63	5.3	33.66	7.8	25.4	6.13
I8	13 May 2025	18	12.13	89.06	4.7	33.67	7.8	25.5	4.24
I8	13 May 2025	19	12.07	91.93	4.7	33.67	7.8	25.5	2.67
I8	13 May 2025	20	11.94	93.11	4.8	33.67	7.8	25.6	2.15
I8	13 May 2025	21	11.60	93.54	4.8	33.69	7.8	25.6	1.47
I8	13 May 2025	22	11.38	94.60	4.6	33.70	7.8	25.7	1.15
I8	13 May 2025	23	11.42	95.52	4.5	33.71	7.8	25.7	0.94
I8	13 May 2025	24	11.39	95.98	4.4	33.75	7.8	25.7	0.91
I8	13 May 2025	25	11.42	95.75	4.3	33.75	7.8	25.7	0.63
I8	13 May 2025	26	11.44	95.62	4.3	33.76	7.8	25.7	0.60
I8	13 May 2025	27	11.44	95.96	4.3	33.76	7.8	25.7	0.67
I8	13 May 2025	28	11.38	95.63	4.2	33.76	7.8	25.7	0.57
I8	13 May 2025	29	11.39	95.77	4.2	33.76	7.8	25.7	0.56
I8	13 May 2025	30	11.39	95.87	4.2	33.77	7.8	25.7	0.57
I8	13 May 2025	31	11.39	95.85	4.2	33.77	7.8	25.7	0.60
I8	13 May 2025	32	11.37	95.92	4.2	33.77	7.8	25.8	0.60
I8	13 May 2025	33	11.33	95.68	4.2	33.77	7.7	25.8	0.64
I8	13 May 2025	34	11.32	95.52	4.1	33.77	7.7	25.8	0.65
I8	13 May 2025	35	11.30	95.04	4.1	33.77	7.7	25.8	0.75
I8	13 May 2025	36	11.28	94.23	4.1	33.76	7.7	25.8	0.76
I12	14 May 2025	1	16.36	87.91	10.2	33.60	8.3	24.6	0.38
I12	14 May 2025	2	16.11	87.47	10.1	33.61	8.3	24.7	0.47
I12	14 May 2025	3	16.09	87.33	10.0	33.61	8.2	24.7	0.56
I12	14 May 2025	4	16.05	87.56	9.8	33.61	8.2	24.7	0.59
I12	14 May 2025	5	15.70	87.64	9.7	33.59	8.2	24.7	0.70
I12	14 May 2025	6	15.03	86.90	9.2	33.56	8.2	24.9	1.67
I12	14 May 2025	7	13.69	81.02	7.9	33.50	8.1	25.1	8.27
I12	14 May 2025	8	12.24	76.88	6.3	33.54	8.0	25.4	8.09
I12	14 May 2025	9	11.85	83.22	5.2	33.56	7.8	25.5	1.59
I12	14 May 2025	10	11.85	90.87	4.8	33.54	7.8	25.5	0.84
I12	14 May 2025	11	11.79	92.63	4.7	33.56	7.8	25.5	0.86
I12	14 May 2025	12	11.83	92.94	4.7	33.61	7.8	25.5	1.28
I12	14 May 2025	13	11.86	93.50	4.7	33.62	7.8	25.5	1.31
I12	14 May 2025	14	11.82	94.12	4.7	33.66	7.8	25.6	1.51
I12	14 May 2025	15	11.79	94.93	4.7	33.68	7.8	25.6	1.42
I12	14 May 2025	16	11.78	95.35	4.7	33.69	7.8	25.6	1.04
I12	14 May 2025	17	11.76	94.97	4.6	33.71	7.8	25.6	1.10
I12	14 May 2025	18	11.72	94.93	4.5	33.73	7.8	25.7	0.72
I12	14 May 2025	19	11.70	94.83	4.5	33.73	7.8	25.7	0.62
I12	14 May 2025	20	11.68	95.16	4.5	33.74	7.8	25.7	0.61
I12	14 May 2025	21	11.68	94.41	4.4	33.74	7.8	25.7	0.67
I12	14 May 2025	22	11.68	93.71	4.4	33.74	7.8	25.7	0.66
I12	14 May 2025	23	11.68	93.43	4.4	33.74	7.8	25.7	0.65

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I12	14 May 2025	24	11.68	93.48	4.4	33.74	7.8	25.7	0.63
I12	14 May 2025	25	11.67	93.58	4.4	33.75	7.8	25.7	0.67
I12	14 May 2025	26	11.67	93.79	4.3	33.75	7.8	25.7	0.66
I12	14 May 2025	27	11.67	93.81	4.3	33.75	7.8	25.7	0.66
I12	14 May 2025	28	11.65	93.72	4.3	33.75	7.8	25.7	0.64
I18	14 May 2025	1	16.58	84.50	12.2	33.59	8.4	24.5	0.36
I18	14 May 2025	2	16.48	84.49	12.2	33.59	8.4	24.6	0.39
I18	14 May 2025	3	16.45	88.50	12.2	33.59	8.4	24.6	0.42
I18	14 May 2025	4	16.32	89.75	12.1	33.60	8.4	24.6	0.51
I18	14 May 2025	5	16.16	90.76	11.9	33.60	8.4	24.6	0.63
I18	14 May 2025	6	15.31	88.41	12.5	33.60	8.4	24.8	1.69
I18	14 May 2025	7	13.93	74.56	12.3	33.64	8.3	25.1	13.08
I18	14 May 2025	8	13.42	62.27	9.4	33.68	8.1	25.3	11.47
I18	14 May 2025	9	13.03	77.70	7.0	33.65	8.0	25.3	10.50
I18	14 May 2025	10	12.30	83.01	5.1	33.65	7.7	25.5	5.96
I18	14 May 2025	11	12.25	88.47	4.6	33.67	7.7	25.5	4.07
I18	14 May 2025	12	12.24	87.86	4.6	33.67	7.7	25.5	5.47
I18	14 May 2025	13	12.20	85.41	4.5	33.68	7.7	25.5	6.24
I18	14 May 2025	14	12.22	87.01	4.5	33.69	7.7	25.5	7.04
I18	14 May 2025	15	12.25	85.64	4.4	33.71	7.7	25.5	4.57
I18	14 May 2025	16	12.27	88.55	4.5	33.72	7.8	25.5	2.09
I18	14 May 2025	17	12.26	88.48	4.5	33.75	7.8	25.6	1.65
I18	14 May 2025	18	12.27	86.94	4.5	33.75	7.8	25.6	1.20
I18	14 May 2025	19	12.25	86.02	4.4	33.76	7.8	25.6	1.39
I13	14 May 2025	1	16.20	87.78	9.3	33.58	8.2	24.6	0.61
I13	14 May 2025	2	16.12	85.77	9.3	33.60	8.2	24.6	0.74
I13	14 May 2025	3	15.93	87.68	9.3	33.60	8.2	24.7	0.85
I13	14 May 2025	4	15.70	87.72	9.3	33.60	8.2	24.7	1.01
I13	14 May 2025	5	15.65	87.59	9.3	33.60	8.2	24.7	1.18
I13	14 May 2025	6	15.59	87.27	9.5	33.60	8.2	24.8	1.55
I13	14 May 2025	7	15.57	86.84	9.6	33.60	8.2	24.8	2.24
I13	14 May 2025	8	15.56	84.34	9.8	33.60	8.2	24.8	3.60
I13	14 May 2025	9	15.56	74.48	10.0	33.60	8.2	24.8	10.34
I13	14 May 2025	10	15.33	60.38	10.0	33.59	8.3	24.8	20.74
I13	14 May 2025	11	14.54	73.04	9.7	33.62	8.2	25.0	12.05
I13	14 May 2025	12	13.57	76.10	8.2	33.59	8.1	25.2	8.79
I13	14 May 2025	13	12.70	87.31	6.5	33.63	7.9	25.4	5.25
I13	14 May 2025	14	12.38	88.38	6.1	33.63	7.9	25.5	4.97
I13	14 May 2025	15	12.09	88.67	5.9	33.63	7.9	25.5	4.35
I13	14 May 2025	16	11.68	91.38	5.7	33.64	7.9	25.6	3.56
I13	14 May 2025	17	11.80	93.16	5.6	33.63	7.9	25.6	3.06
I13	14 May 2025	18	11.43	94.88	5.4	33.66	7.8	25.7	2.63
I13	14 May 2025	19	11.32	95.54	5.0	33.69	7.8	25.7	1.24
I13	14 May 2025	20	11.29	97.02	4.8	33.71	7.8	25.7	1.07
I13	14 May 2025	21	11.24	97.07	4.6	33.73	7.8	25.7	0.83
I13	14 May 2025	22	11.20	97.15	4.5	33.73	7.8	25.8	0.70
I13	14 May 2025	23	11.20	97.31	4.5	33.73	7.8	25.8	0.67
I13	14 May 2025	24	11.16	97.37	4.4	33.74	7.8	25.8	0.69
I13	14 May 2025	25	11.15	97.14	4.4	33.75	7.8	25.8	0.70
I13	14 May 2025	26	11.15	97.02	4.3	33.76	7.8	25.8	0.62
I13	14 May 2025	27	11.16	97.07	4.2	33.76	7.8	25.8	0.60
I13	14 May 2025	28	11.13	97.38	4.2	33.77	7.8	25.8	0.58
I13	14 May 2025	29	11.11	96.90	4.1	33.77	7.8	25.8	0.51
I13	14 May 2025	30	11.11	96.37	4.0	33.77	7.7	25.8	0.56
I13	14 May 2025	31	11.10	96.19	4.0	33.77	7.7	25.8	0.59
I13	14 May 2025	32	11.10	96.16	4.0	33.77	7.7	25.8	0.61
I13	14 May 2025	33	11.09	96.15	4.0	33.77	7.7	25.8	0.70
I13	14 May 2025	34	11.09	95.60	3.9	33.77	7.7	25.8	0.61
I13	14 May 2025	35	11.09	96.07	3.9	33.77	7.7	25.8	0.75

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I13	14 May 2025	36	11.09	96.05	3.9	33.77	7.7	25.8	0.67
I13	14 May 2025	37	11.09	95.86	3.9	33.77	7.7	25.8	0.63
I13	14 May 2025	38	11.10	94.81	3.9	33.77	7.7	25.8	0.76
I15	14 May 2025	1	15.95	87.43	9.4	33.60	8.2	24.7	0.69
I15	14 May 2025	2	15.90	87.47	9.4	33.60	8.2	24.7	0.62
I15	14 May 2025	3	15.81	87.47	9.4	33.60	8.2	24.7	0.66
I15	14 May 2025	4	15.67	87.55	9.6	33.59	8.2	24.7	0.77
I15	14 May 2025	5	15.28	87.72	10.2	33.60	8.2	24.8	1.16
I15	14 May 2025	6	14.74	85.98	10.2	33.60	8.2	24.9	2.05
I15	14 May 2025	7	13.79	78.52	8.9	33.62	8.1	25.2	7.56
I15	14 May 2025	8	13.24	75.60	7.4	33.62	8.0	25.3	10.13
I15	14 May 2025	9	12.91	78.04	6.4	33.63	7.9	25.4	12.30
I15	14 May 2025	10	12.70	77.57	5.4	33.67	7.8	25.4	13.80
I15	14 May 2025	11	12.48	78.98	4.8	33.66	7.8	25.5	11.21
I15	14 May 2025	12	12.09	84.26	4.8	33.66	7.8	25.5	7.12
I15	14 May 2025	13	11.95	87.97	4.8	33.64	7.8	25.5	4.37
I15	14 May 2025	14	11.67	92.39	4.9	33.61	7.8	25.6	2.44
I15	14 May 2025	15	11.55	94.59	4.8	33.63	7.8	25.6	1.82
I15	14 May 2025	16	11.50	95.65	4.7	33.68	7.8	25.7	0.96
I15	14 May 2025	17	11.50	95.63	4.6	33.70	7.8	25.7	1.11
I15	14 May 2025	18	11.50	95.90	4.5	33.71	7.8	25.7	0.82
I15	14 May 2025	19	11.47	95.96	4.4	33.73	7.8	25.7	0.71
I15	14 May 2025	20	11.47	96.04	4.4	33.74	7.8	25.7	0.59
I15	14 May 2025	21	11.47	95.91	4.3	33.74	7.8	25.7	0.62
I15	14 May 2025	22	11.47	95.92	4.3	33.74	7.8	25.7	0.60
I15	14 May 2025	23	11.46	95.90	4.3	33.74	7.8	25.7	0.60
I15	14 May 2025	24	11.47	95.95	4.3	33.74	7.8	25.7	0.70
I15	14 May 2025	25	11.45	95.91	4.3	33.74	7.8	25.7	0.55
I15	14 May 2025	26	11.48	95.60	4.3	33.75	7.8	25.7	0.58
I15	14 May 2025	27	11.49	94.16	4.3	33.75	7.8	25.7	0.92
I15	14 May 2025	28	11.50	93.21	4.2	33.76	7.8	25.7	0.87
I15	14 May 2025	29	11.51	90.97	4.2	33.76	7.8	25.7	0.88
I15	14 May 2025	30	11.51	90.28	4.2	33.76	7.8	25.7	0.96
I15	14 May 2025	31	11.51	90.56	4.2	33.76	7.8	25.7	0.98
I16	14 May 2025	1	16.41	83.96	10.4	33.62	8.3	24.6	0.40
I16	14 May 2025	2	16.36	74.26	10.2	33.60	8.3	24.6	0.41
I16	14 May 2025	3	15.90	84.79	9.8	33.61	8.2	24.7	0.51
I16	14 May 2025	4	15.76	87.13	9.9	33.60	8.2	24.7	0.74
I16	14 May 2025	5	15.52	87.36	10.6	33.59	8.3	24.8	0.92
I16	14 May 2025	6	14.78	86.40	10.8	33.60	8.3	24.9	2.01
I16	14 May 2025	7	14.77	82.25	10.1	33.59	8.2	24.9	4.65
I16	14 May 2025	8	13.63	73.16	8.2	33.59	8.1	25.2	5.94
I16	14 May 2025	9	13.01	72.46	6.3	33.64	7.9	25.3	9.88
I16	14 May 2025	10	12.85	83.72	5.3	33.65	7.8	25.4	6.32
I16	14 May 2025	11	12.45	86.58	4.9	33.63	7.8	25.4	5.96
I16	14 May 2025	12	11.99	89.05	4.8	33.60	7.8	25.5	3.48
I16	14 May 2025	13	11.85	91.49	4.6	33.62	7.8	25.5	2.62
I16	14 May 2025	14	11.88	92.77	4.5	33.61	7.7	25.5	2.95
I16	14 May 2025	15	11.81	93.26	4.6	33.67	7.8	25.6	2.60
I16	14 May 2025	16	11.70	94.64	4.7	33.70	7.8	25.6	1.03
I16	14 May 2025	17	11.64	95.68	4.6	33.72	7.8	25.7	0.94
I16	14 May 2025	18	11.67	95.75	4.5	33.73	7.8	25.7	0.62
I16	14 May 2025	19	11.68	95.18	4.5	33.74	7.8	25.7	0.59
I16	14 May 2025	20	11.68	94.94	4.4	33.74	7.8	25.7	0.62
I16	14 May 2025	21	11.70	94.58	4.4	33.75	7.8	25.7	0.64
I16	14 May 2025	22	11.70	94.41	4.4	33.75	7.8	25.7	0.64
I16	14 May 2025	23	11.69	93.42	4.3	33.75	7.8	25.7	0.65
I16	14 May 2025	24	11.65	92.84	4.3	33.75	7.8	25.7	0.71
I16	14 May 2025	25	11.65	91.80	4.3	33.75	7.8	25.7	0.75

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I16	14 May 2025	26	11.65	91.64	4.3	33.75	7.8	25.7	0.70
I16	14 May 2025	27	11.64	91.43	4.2	33.75	7.8	25.7	0.69
I16	14 May 2025	28	11.65	91.47	4.3	33.75	7.8	25.7	0.74
I17	14 May 2025	1	16.44	89.57	10.5	33.62	8.3	24.6	0.41
I17	14 May 2025	2	16.31	88.80	10.4	33.62	8.3	24.6	0.42
I17	14 May 2025	3	16.16	89.30	10.2	33.62	8.3	24.6	0.47
I17	14 May 2025	4	15.77	87.82	10.4	33.60	8.2	24.7	0.76
I17	14 May 2025	5	14.92	84.48	12.2	33.60	8.3	24.9	5.32
I17	14 May 2025	6	14.85	60.70	10.8	33.54	8.3	24.9	15.42
I17	14 May 2025	7	13.66	39.07	8.6	33.56	8.2	25.1	16.77
I17	14 May 2025	8	13.02	73.10	6.7	33.58	8.0	25.3	7.49
I17	14 May 2025	9	12.58	82.82	5.4	33.58	7.8	25.4	6.55
I17	14 May 2025	10	11.99	87.73	4.9	33.60	7.8	25.5	5.33
I17	14 May 2025	11	11.87	88.39	4.6	33.62	7.8	25.5	4.81
I17	14 May 2025	12	11.90	91.41	4.6	33.65	7.7	25.6	3.32
I17	14 May 2025	13	11.98	91.78	4.6	33.71	7.8	25.6	4.34
I17	14 May 2025	14	11.99	90.50	4.7	33.73	7.8	25.6	3.36
I17	14 May 2025	15	11.96	92.05	4.7	33.73	7.8	25.6	0.90
I17	14 May 2025	16	11.94	93.42	4.7	33.73	7.8	25.6	0.76
I17	14 May 2025	17	11.94	93.62	4.6	33.73	7.8	25.6	0.85
I17	14 May 2025	18	11.92	93.10	4.6	33.74	7.8	25.6	0.74
I17	14 May 2025	19	11.87	93.22	4.6	33.74	7.8	25.6	0.73
I17	14 May 2025	20	11.89	93.37	4.5	33.74	7.8	25.6	0.70
I17	14 May 2025	21	11.86	93.27	4.5	33.75	7.8	25.6	0.72
I17	14 May 2025	22	11.85	92.62	4.4	33.75	7.8	25.6	0.75
I17	14 May 2025	23	11.85	92.50	4.4	33.75	7.8	25.6	0.71
I17	14 May 2025	24	11.85	92.34	4.4	33.75	7.8	25.6	0.74
I17	14 May 2025	25	11.85	91.72	4.4	33.75	7.8	25.6	0.69
I14	14 May 2025	1	16.44	85.29	10.3	33.62	8.3	24.6	0.40
I14	14 May 2025	2	16.35	86.56	10.2	33.62	8.3	24.6	0.40
I14	14 May 2025	3	15.90	88.46	9.8	33.61	8.2	24.7	0.54
I14	14 May 2025	4	15.55	86.84	9.8	33.59	8.2	24.8	0.82
I14	14 May 2025	5	14.58	86.88	10.1	33.59	8.2	25.0	1.44
I14	14 May 2025	6	13.64	81.36	8.9	33.61	8.1	25.2	11.29
I14	14 May 2025	7	13.28	64.53	7.4	33.62	8.0	25.3	13.53
I14	14 May 2025	8	13.04	71.41	6.2	33.62	7.9	25.3	15.20
I14	14 May 2025	9	13.18	74.23	5.7	33.62	7.9	25.3	14.99
I14	14 May 2025	10	12.59	75.98	5.2	33.65	7.8	25.4	14.02
I14	14 May 2025	11	11.94	81.39	4.9	33.61	7.8	25.5	7.05
I14	14 May 2025	12	11.66	92.32	4.9	33.63	7.8	25.6	1.78
I14	14 May 2025	13	11.82	95.84	4.8	33.62	7.8	25.6	1.69
I14	14 May 2025	14	11.59	95.99	4.7	33.67	7.8	25.6	1.39
I14	14 May 2025	15	11.60	95.61	4.6	33.71	7.8	25.7	0.82
I14	14 May 2025	16	11.66	95.56	4.5	33.73	7.8	25.7	0.68
I14	14 May 2025	17	11.67	95.32	4.5	33.73	7.8	25.7	0.64
I14	14 May 2025	18	11.66	95.12	4.4	33.73	7.8	25.7	0.66
I14	14 May 2025	19	11.67	95.15	4.4	33.74	7.8	25.7	0.63
I14	14 May 2025	20	11.63	95.17	4.4	33.74	7.8	25.7	0.67
I14	14 May 2025	21	11.64	94.36	4.4	33.74	7.8	25.7	0.73
I14	14 May 2025	22	11.66	93.07	4.3	33.75	7.8	25.7	0.71
I14	14 May 2025	23	11.66	92.99	4.3	33.75	7.8	25.7	0.69
I14	14 May 2025	24	11.67	92.74	4.3	33.75	7.8	25.7	0.69
I14	14 May 2025	25	11.66	92.55	4.3	33.75	7.8	25.7	0.75
I14	14 May 2025	26	11.67	92.92	4.3	33.75	7.8	25.7	0.73
I14	14 May 2025	27	11.67	91.90	4.3	33.76	7.8	25.7	0.72
I14	14 May 2025	28	11.68	91.31	4.3	33.76	7.8	25.7	0.69
I23	14 May 2025	1	16.55	90.57	12.1	33.60	8.4	24.5	0.33
I23	14 May 2025	2	16.46	89.43	12.0	33.60	8.4	24.6	0.36

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I23	14 May 2025	3	16.39	91.39	11.8	33.60	8.4	24.6	0.38
I23	14 May 2025	4	16.23	91.34	11.4	33.61	8.4	24.6	0.43
I23	14 May 2025	5	16.13	90.96	11.2	33.61	8.3	24.7	0.55
I23	14 May 2025	6	15.86	89.92	11.6	33.61	8.3	24.7	0.73
I23	14 May 2025	7	15.22	88.91	13.2	33.61	8.4	24.9	2.12
I23	14 May 2025	8	15.07	75.13	13.0	33.59	8.5	24.9	15.66
I23	14 May 2025	9	13.13	47.29	8.9	33.70	8.2	25.4	16.87
I23	14 May 2025	10	12.49	80.21	5.9	33.70	7.8	25.5	5.59
I23	14 May 2025	11	12.32	86.49	4.8	33.72	7.8	25.5	4.87
I23	14 May 2025	12	12.33	88.48	4.6	33.73	7.8	25.5	3.00
I23	14 May 2025	13	12.33	90.34	4.6	33.73	7.8	25.5	1.84
I23	14 May 2025	14	12.33	90.74	4.6	33.74	7.8	25.5	1.35
I23	14 May 2025	15	12.31	91.04	4.6	33.75	7.8	25.6	1.15
I23	14 May 2025	16	12.32	90.71	4.6	33.76	7.8	25.6	1.05
I23	14 May 2025	17	12.31	87.63	4.5	33.76	7.8	25.6	1.06
I23	14 May 2025	18	12.31	82.33	4.4	33.76	7.8	25.6	1.05
I23	14 May 2025	19	12.30	80.27	4.4	33.77	7.8	25.6	0.98
I23	14 May 2025	20	12.29	78.55	4.3	33.77	7.8	25.6	0.98
I23	14 May 2025	21	12.30	77.39	4.3	33.77	7.8	25.6	1.07
I22	14 May 2025	1	16.32	85.41	10.2	33.63	8.3	24.6	0.45
I22	14 May 2025	2	16.32	87.00	10.2	33.63	8.3	24.6	0.47
I22	14 May 2025	3	16.08	87.86	10.0	33.62	8.3	24.7	0.51
I22	14 May 2025	4	15.80	88.14	9.7	33.60	8.2	24.7	0.78
I22	14 May 2025	5	14.85	87.54	10.1	33.61	8.2	24.9	1.65
I22	14 May 2025	6	14.04	83.19	9.5	33.61	8.2	25.1	15.12
I22	14 May 2025	7	13.41	69.08	7.6	33.58	8.0	25.2	16.44
I22	14 May 2025	8	12.89	69.14	6.1	33.59	7.9	25.3	15.15
I22	14 May 2025	9	12.75	72.68	5.0	33.61	7.8	25.4	10.95
I22	14 May 2025	10	12.47	80.45	4.5	33.66	7.7	25.5	6.41
I22	14 May 2025	11	12.34	87.96	4.4	33.65	7.7	25.5	3.23
I22	14 May 2025	12	12.05	90.42	4.4	33.63	7.7	25.5	2.44
I22	14 May 2025	13	11.86	91.86	4.5	33.63	7.7	25.6	1.69
I22	14 May 2025	14	11.79	93.14	4.6	33.67	7.8	25.6	1.47
I22	14 May 2025	15	11.74	94.39	4.7	33.70	7.8	25.6	0.91
I22	14 May 2025	16	11.82	94.83	4.6	33.73	7.8	25.6	0.86
I22	14 May 2025	17	11.86	94.86	4.5	33.75	7.8	25.6	0.83
I22	14 May 2025	18	11.86	94.26	4.5	33.75	7.8	25.6	0.77
I22	14 May 2025	19	11.83	94.21	4.5	33.75	7.8	25.7	0.71
I22	14 May 2025	20	11.78	94.05	4.4	33.75	7.8	25.7	0.65
I22	14 May 2025	21	11.74	94.25	4.4	33.74	7.8	25.7	0.65
I22	14 May 2025	22	11.65	94.53	4.4	33.74	7.8	25.7	0.68
I22	14 May 2025	23	11.68	94.99	4.4	33.75	7.8	25.7	0.66
I22	14 May 2025	24	11.68	94.86	4.4	33.75	7.8	25.7	0.61
I22	14 May 2025	25	11.69	94.72	4.3	33.76	7.8	25.7	0.62
I22	14 May 2025	26	11.70	94.11	4.3	33.76	7.8	25.7	0.63
I22	14 May 2025	27	11.70	93.05	4.3	33.76	7.8	25.7	0.76
I22	14 May 2025	28	11.71	92.94	4.3	33.76	7.8	25.7	0.70
I20	14 May 2025	1	15.49	92.95	8.8	33.58	8.2	24.8	0.68
I20	14 May 2025	2	15.46	93.43	8.8	33.58	8.2	24.8	0.70
I20	14 May 2025	3	15.44	93.31	8.8	33.58	8.2	24.8	0.82
I20	14 May 2025	4	15.43	93.08	8.8	33.57	8.2	24.8	0.99
I20	14 May 2025	5	15.42	93.04	8.8	33.57	8.2	24.8	1.08
I20	14 May 2025	6	15.37	92.57	8.8	33.58	8.2	24.8	1.22
I20	14 May 2025	7	15.32	92.66	8.8	33.58	8.2	24.8	1.48
I20	14 May 2025	8	15.17	92.40	8.8	33.58	8.2	24.8	1.78
I20	14 May 2025	9	15.01	91.30	8.6	33.59	8.2	24.9	2.59
I20	14 May 2025	10	14.50	90.41	8.1	33.59	8.1	25.0	5.48
I20	14 May 2025	11	12.77	86.23	7.3	33.61	8.1	25.4	9.06
I20	14 May 2025	12	11.71	83.64	6.2	33.62	7.9	25.6	4.53

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I20	14 May 2025	13	11.79	90.36	5.6	33.60	7.8	25.5	1.66
I20	14 May 2025	14	11.61	91.34	5.5	33.59	7.8	25.6	1.49
I20	14 May 2025	15	11.42	95.62	5.3	33.60	7.8	25.6	1.22
I20	14 May 2025	16	11.33	96.21	5.1	33.61	7.8	25.6	1.10
I20	14 May 2025	17	11.21	96.73	5.0	33.62	7.8	25.7	1.14
I20	14 May 2025	18	11.16	97.00	4.8	33.64	7.8	25.7	0.92
I20	14 May 2025	19	11.11	97.36	4.7	33.66	7.8	25.7	0.98
I20	14 May 2025	20	11.06	97.56	4.7	33.67	7.8	25.7	0.84
I20	14 May 2025	21	11.04	97.52	4.6	33.69	7.8	25.7	0.92
I20	14 May 2025	22	11.01	97.49	4.5	33.70	7.8	25.8	0.86
I20	14 May 2025	23	10.99	97.50	4.4	33.72	7.8	25.8	0.87
I20	14 May 2025	24	10.98	97.53	4.4	33.72	7.8	25.8	0.80
I20	14 May 2025	25	10.86	97.48	4.3	33.75	7.8	25.8	0.74
I20	14 May 2025	26	10.84	97.38	4.2	33.76	7.7	25.8	0.63
I20	14 May 2025	27	10.84	97.35	4.1	33.77	7.7	25.8	0.69
I20	14 May 2025	28	10.83	97.41	4.0	33.77	7.7	25.9	1.12
I20	14 May 2025	29	10.82	97.05	4.0	33.78	7.7	25.9	0.67
I20	14 May 2025	30	10.80	97.12	4.0	33.79	7.7	25.9	0.68
I20	14 May 2025	31	10.80	97.17	3.9	33.79	7.7	25.9	0.63
I20	14 May 2025	32	10.77	97.29	3.9	33.80	7.7	25.9	0.62
I20	14 May 2025	33	10.77	97.19	3.9	33.81	7.7	25.9	0.70
I20	14 May 2025	34	10.76	97.27	3.8	33.81	7.7	25.9	0.62
I20	14 May 2025	35	10.75	97.35	3.8	33.81	7.7	25.9	0.70
I20	14 May 2025	36	10.75	97.35	3.8	33.81	7.7	25.9	0.66
I20	14 May 2025	37	10.75	97.34	3.8	33.81	7.7	25.9	0.64
I20	14 May 2025	38	10.73	97.35	3.8	33.82	7.7	25.9	0.60
I20	14 May 2025	39	10.72	97.13	3.7	33.84	7.7	25.9	0.52
I20	14 May 2025	40	10.70	97.21	3.6	33.84	7.7	25.9	0.48
I20	14 May 2025	41	10.71	97.30	3.6	33.84	7.7	25.9	0.44
I20	14 May 2025	42	10.69	97.27	3.6	33.85	7.7	25.9	0.43
I20	14 May 2025	43	10.68	97.28	3.5	33.86	7.7	25.9	0.44
I20	14 May 2025	44	10.68	97.29	3.5	33.87	7.7	26.0	0.39
I20	14 May 2025	45	10.68	97.31	3.4	33.87	7.7	26.0	0.45
I20	14 May 2025	46	10.68	97.33	3.4	33.87	7.7	26.0	0.39
I20	14 May 2025	47	10.68	97.39	3.4	33.87	7.7	26.0	0.42
I20	14 May 2025	48	10.68	97.13	3.4	33.87	7.7	26.0	0.37
I20	14 May 2025	49	10.68	97.02	3.4	33.87	7.7	26.0	0.38
I20	14 May 2025	50	10.68	96.92	3.4	33.87	7.7	26.0	0.41
I20	14 May 2025	51	10.68	96.90	3.3	33.87	7.7	26.0	0.41
I20	14 May 2025	52	10.68	96.98	3.3	33.87	7.7	26.0	0.38
I20	14 May 2025	53	10.68	96.97	3.3	33.87	7.7	26.0	0.41
I20	14 May 2025	54	10.68	96.89	3.3	33.87	7.7	26.0	0.40
I20	14 May 2025	55	10.68	96.87	3.3	33.87	7.7	26.0	0.41
I21	14 May 2025	1	15.56	88.18	9.2	33.59	8.2	24.8	0.94
I21	14 May 2025	2	15.56	88.12	9.2	33.59	8.2	24.8	0.98
I21	14 May 2025	3	15.51	88.49	9.2	33.59	8.2	24.8	1.04
I21	14 May 2025	4	15.46	89.03	9.2	33.59	8.2	24.8	1.45
I21	14 May 2025	5	15.46	88.81	9.1	33.59	8.2	24.8	1.72
I21	14 May 2025	6	15.38	88.11	9.0	33.58	8.2	24.8	1.87
I21	14 May 2025	7	14.64	87.65	9.1	33.61	8.2	25.0	3.59
I21	14 May 2025	8	14.66	87.51	8.5	33.56	8.2	24.9	4.36
I21	14 May 2025	9	12.84	83.59	7.7	33.60	8.1	25.3	5.69
I21	14 May 2025	10	12.26	84.27	6.7	33.60	8.0	25.5	5.78
I21	14 May 2025	11	11.90	89.66	6.2	33.61	7.9	25.5	4.56
I21	14 May 2025	12	11.74	92.39	5.9	33.61	7.9	25.6	3.24
I21	14 May 2025	13	11.57	93.48	5.7	33.62	7.9	25.6	2.34
I21	14 May 2025	14	11.49	94.51	5.5	33.62	7.8	25.6	1.99
I21	14 May 2025	15	11.40	94.90	5.4	33.62	7.8	25.6	1.82
I21	14 May 2025	16	11.26	94.71	5.3	33.62	7.8	25.7	1.81
I21	14 May 2025	17	11.16	94.84	5.2	33.63	7.8	25.7	1.65

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I21	14 May 2025	18	11.08	95.38	5.1	33.62	7.8	25.7	1.59
I21	14 May 2025	19	10.97	95.82	5.0	33.64	7.8	25.7	1.41
I21	14 May 2025	20	10.92	96.18	5.0	33.64	7.8	25.7	1.87
I21	14 May 2025	21	10.88	96.59	4.9	33.65	7.8	25.7	1.16
I21	14 May 2025	22	10.89	96.63	4.7	33.70	7.8	25.8	1.17
I21	14 May 2025	23	10.90	96.95	4.6	33.68	7.8	25.8	1.06
I21	14 May 2025	24	10.85	96.85	4.5	33.71	7.8	25.8	1.25
I21	14 May 2025	25	10.84	96.62	4.5	33.72	7.8	25.8	1.04
I21	14 May 2025	26	10.82	96.67	4.4	33.72	7.8	25.8	1.00
I21	14 May 2025	27	10.81	96.59	4.4	33.72	7.8	25.8	1.05
I21	14 May 2025	28	10.80	96.47	4.4	33.72	7.8	25.8	1.11
I21	14 May 2025	29	10.80	96.47	4.3	33.73	7.8	25.8	1.02
I21	14 May 2025	30	10.81	96.66	4.3	33.74	7.8	25.8	1.01
I21	14 May 2025	31	10.81	96.72	4.3	33.73	7.8	25.8	1.06
I21	14 May 2025	32	10.81	96.52	4.2	33.75	7.8	25.8	1.03
I21	14 May 2025	33	10.84	96.42	4.1	33.77	7.7	25.8	0.91
I21	14 May 2025	34	10.85	96.38	4.0	33.77	7.7	25.8	0.81
I21	14 May 2025	35	10.85	96.49	4.0	33.77	7.7	25.8	0.80
I21	14 May 2025	36	10.85	96.26	3.9	33.78	7.7	25.9	0.82
I21	14 May 2025	37	10.84	96.41	3.8	33.78	7.7	25.9	0.66
I21	14 May 2025	38	10.83	96.27	3.8	33.78	7.7	25.9	0.63
I21	14 May 2025	39	10.81	96.20	3.8	33.79	7.7	25.9	0.64
I21	14 May 2025	40	10.81	95.93	3.8	33.79	7.7	25.9	0.75
I21	14 May 2025	41	10.81	95.23	3.8	33.79	7.7	25.9	0.73
I27	14 May 2025	1	16.27	91.96	10.8	33.58	8.3	24.6	0.31
I27	14 May 2025	2	16.21	91.79	10.6	33.60	8.3	24.6	0.33
I27	14 May 2025	3	15.48	91.54	10.1	33.56	8.3	24.8	0.52
I27	14 May 2025	4	14.52	88.20	10.1	33.62	8.2	25.0	1.71
I27	14 May 2025	5	14.15	84.07	10.0	33.59	8.2	25.1	9.89
I27	14 May 2025	6	13.61	54.62	8.7	33.60	8.1	25.2	29.58
I27	14 May 2025	7	13.27	48.91	7.1	33.59	8.0	25.2	30.53
I27	14 May 2025	8	12.78	63.66	5.5	33.57	7.8	25.3	11.09
I27	14 May 2025	9	12.69	80.05	4.6	33.59	7.7	25.4	7.80
I27	14 May 2025	10	12.48	84.32	4.3	33.60	7.7	25.4	6.42
I27	14 May 2025	11	12.30	87.37	4.1	33.64	7.7	25.5	3.49
I27	14 May 2025	12	12.19	91.38	4.2	33.65	7.7	25.5	1.90
I27	14 May 2025	13	12.13	89.78	4.3	33.62	7.7	25.5	1.91
I27	14 May 2025	14	11.79	92.52	4.5	33.64	7.8	25.6	1.50
I27	14 May 2025	15	11.76	94.52	4.6	33.68	7.8	25.6	1.08
I27	14 May 2025	16	11.71	94.77	4.6	33.72	7.8	25.6	1.19
I27	14 May 2025	17	11.78	94.93	4.6	33.75	7.8	25.7	0.71
I27	14 May 2025	18	11.80	94.70	4.5	33.76	7.8	25.7	0.59
I27	14 May 2025	19	11.81	94.47	4.5	33.76	7.8	25.7	0.63
I27	14 May 2025	20	11.78	94.53	4.5	33.76	7.8	25.7	0.63
I27	14 May 2025	21	11.73	94.68	4.4	33.76	7.8	25.7	0.61
I27	14 May 2025	22	11.68	94.78	4.4	33.75	7.8	25.7	0.58
I27	14 May 2025	23	11.60	94.68	4.4	33.74	7.8	25.7	0.60
I27	14 May 2025	24	11.59	95.19	4.4	33.75	7.8	25.7	0.63
I27	14 May 2025	25	11.62	95.40	4.4	33.75	7.8	25.7	0.72
I27	14 May 2025	26	11.62	95.11	4.4	33.76	7.8	25.7	0.64
I27	14 May 2025	27	11.61	95.01	4.3	33.76	7.8	25.7	0.56
I27	14 May 2025	28	11.60	93.64	4.3	33.76	7.8	25.7	0.63
I28	15 May 2025	1	15.88	87.53	9.3	33.60	8.2	24.7	1.75
I28	15 May 2025	2	15.88	87.02	9.3	33.60	8.2	24.7	1.81
I28	15 May 2025	3	15.61	88.00	9.4	33.60	8.2	24.8	1.88
I28	15 May 2025	4	14.59	87.47	9.9	33.63	8.2	25.0	3.88
I28	15 May 2025	5	14.28	80.71	9.4	33.61	8.2	25.1	5.98
I28	15 May 2025	6	13.22	78.97	8.6	33.57	8.1	25.2	7.10
I28	15 May 2025	7	12.38	78.04	7.6	33.59	8.0	25.4	9.72

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I28	15 May 2025	8	12.68	78.90	7.3	33.55	8.0	25.3	9.10
I28	15 May 2025	9	12.01	80.49	6.9	33.58	8.0	25.5	9.70
I28	15 May 2025	10	11.86	81.55	6.3	33.58	7.9	25.5	6.92
I28	15 May 2025	11	11.65	87.32	5.9	33.60	7.9	25.6	3.58
I28	15 May 2025	12	11.46	89.93	5.6	33.60	7.9	25.6	3.00
I28	15 May 2025	13	11.29	94.13	5.3	33.61	7.8	25.6	1.82
I28	15 May 2025	14	11.18	96.17	5.2	33.61	7.8	25.7	1.30
I28	15 May 2025	15	11.13	96.35	5.1	33.62	7.8	25.7	1.34
I28	15 May 2025	16	11.09	96.65	5.0	33.63	7.8	25.7	1.29
I28	15 May 2025	17	11.07	96.92	5.0	33.64	7.8	25.7	1.16
I28	15 May 2025	18	11.10	96.94	4.9	33.64	7.8	25.7	1.21
I28	15 May 2025	19	11.03	97.06	4.8	33.66	7.8	25.7	1.12
I28	15 May 2025	20	10.90	97.30	4.6	33.68	7.8	25.8	0.91
I28	15 May 2025	21	10.86	97.52	4.5	33.69	7.8	25.8	0.74
I28	15 May 2025	22	10.77	97.86	4.4	33.71	7.8	25.8	0.83
I28	15 May 2025	23	10.73	97.98	4.3	33.73	7.8	25.8	0.70
I28	15 May 2025	24	10.71	98.24	4.3	33.73	7.8	25.8	0.67
I28	15 May 2025	25	10.69	98.32	4.2	33.75	7.8	25.9	0.71
I28	15 May 2025	26	10.67	98.24	4.1	33.76	7.8	25.9	0.67
I28	15 May 2025	27	10.67	98.23	4.1	33.76	7.8	25.9	0.78
I28	15 May 2025	28	10.66	98.08	4.1	33.76	7.8	25.9	0.72
I28	15 May 2025	29	10.63	98.25	4.0	33.78	7.7	25.9	0.71
I28	15 May 2025	30	10.62	98.32	3.9	33.80	7.7	25.9	0.61
I28	15 May 2025	31	10.66	98.27	3.8	33.82	7.7	25.9	0.55
I28	15 May 2025	32	10.67	98.12	3.7	33.83	7.7	25.9	0.50
I28	15 May 2025	33	10.66	97.89	3.6	33.83	7.7	25.9	0.40
I28	15 May 2025	34	10.66	97.66	3.6	33.83	7.7	25.9	0.39
I28	15 May 2025	35	10.66	97.68	3.6	33.84	7.7	25.9	0.39
I28	15 May 2025	36	10.66	97.59	3.6	33.84	7.7	25.9	0.36
I28	15 May 2025	37	10.66	97.57	3.5	33.84	7.7	25.9	0.37
I28	15 May 2025	38	10.67	97.59	3.5	33.84	7.7	25.9	0.38
I28	15 May 2025	39	10.67	97.18	3.5	33.84	7.7	25.9	0.40
I28	15 May 2025	40	10.66	97.52	3.5	33.84	7.7	25.9	0.36
I28	15 May 2025	41	10.67	97.56	3.5	33.84	7.7	25.9	0.38
I28	15 May 2025	42	10.67	97.59	3.5	33.84	7.7	25.9	0.38
I28	15 May 2025	43	10.67	97.52	3.5	33.84	7.7	25.9	0.35
I28	15 May 2025	44	10.68	97.53	3.5	33.85	7.7	25.9	0.46
I28	15 May 2025	45	10.69	97.50	3.5	33.85	7.7	25.9	0.39
I28	15 May 2025	46	10.69	97.33	3.4	33.85	7.7	25.9	0.42
I28	15 May 2025	47	10.69	97.41	3.4	33.86	7.7	25.9	0.44
I28	15 May 2025	48	10.69	97.31	3.4	33.86	7.7	25.9	0.41
I28	15 May 2025	49	10.69	97.24	3.4	33.86	7.7	25.9	0.39
I28	15 May 2025	50	10.69	97.08	3.4	33.86	7.7	25.9	0.37
I28	15 May 2025	51	10.69	97.01	3.3	33.87	7.7	25.9	0.36
I28	15 May 2025	52	10.69	97.10	3.3	33.87	7.7	25.9	0.40
I28	15 May 2025	53	10.65	96.90	3.3	33.88	7.7	26.0	0.40
I28	15 May 2025	54	10.63	96.54	3.2	33.90	7.7	26.0	0.37
I28	15 May 2025	55	10.61	96.35	3.1	33.91	7.7	26.0	0.36
I29	15 May 2025	1	15.90	88.38	9.4	33.58	8.2	24.7	1.60
I29	15 May 2025	2	15.88	88.24	9.4	33.58	8.2	24.7	1.66
I29	15 May 2025	3	15.64	87.88	9.6	33.59	8.2	24.7	2.00
I29	15 May 2025	4	15.39	87.12	9.5	33.59	8.2	24.8	3.12
I29	15 May 2025	5	14.33	85.87	9.4	33.62	8.2	25.1	4.10
I29	15 May 2025	6	13.77	82.96	9.5	33.63	8.2	25.2	6.30
I29	15 May 2025	7	13.78	77.35	8.9	33.61	8.1	25.2	8.13
I29	15 May 2025	8	12.58	72.35	7.9	33.63	8.0	25.4	12.53
I29	15 May 2025	9	12.40	73.58	7.1	33.61	8.0	25.4	13.35
I29	15 May 2025	10	12.25	76.38	6.6	33.61	7.9	25.5	10.83
I29	15 May 2025	11	12.22	79.81	6.4	33.60	7.9	25.5	9.94
I29	15 May 2025	12	12.13	81.72	6.3	33.59	7.9	25.5	10.72

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I29	15 May 2025	13	11.81	83.16	6.0	33.61	7.9	25.5	7.01
I29	15 May 2025	14	11.73	89.70	5.7	33.62	7.9	25.6	3.47
I29	15 May 2025	15	11.70	91.15	5.5	33.62	7.9	25.6	2.78
I29	15 May 2025	16	11.57	90.36	5.4	33.62	7.9	25.6	2.65
I29	15 May 2025	17	11.57	94.47	5.4	33.63	7.8	25.6	2.15
I29	15 May 2025	18	11.58	94.89	5.4	33.63	7.8	25.6	2.45
I29	15 May 2025	19	11.57	95.01	5.3	33.64	7.8	25.6	2.34
I29	15 May 2025	20	11.51	95.15	5.2	33.66	7.8	25.6	1.80
I29	15 May 2025	21	11.43	95.42	5.0	33.69	7.8	25.7	1.18
I29	15 May 2025	22	11.37	96.18	4.8	33.69	7.8	25.7	1.07
I29	15 May 2025	23	11.33	96.78	4.7	33.70	7.8	25.7	0.97
I29	15 May 2025	24	11.29	97.13	4.6	33.71	7.8	25.7	0.89
I29	15 May 2025	25	11.24	97.18	4.5	33.73	7.8	25.7	0.79
I29	15 May 2025	26	11.16	96.80	4.4	33.74	7.8	25.8	0.69
I29	15 May 2025	27	11.15	96.71	4.3	33.74	7.8	25.8	0.78
I29	15 May 2025	28	11.07	96.89	4.2	33.75	7.8	25.8	0.73
I29	15 May 2025	29	11.02	96.56	4.1	33.76	7.8	25.8	0.67
I29	15 May 2025	30	10.97	96.69	4.0	33.76	7.7	25.8	0.64
I29	15 May 2025	31	10.91	96.59	3.9	33.77	7.7	25.8	0.60
I29	15 May 2025	32	10.87	95.80	3.9	33.77	7.7	25.8	0.66
I29	15 May 2025	33	10.86	95.51	3.9	33.77	7.7	25.8	0.73
I29	15 May 2025	34	10.85	95.34	3.8	33.77	7.7	25.8	0.70
I29	15 May 2025	35	10.85	95.08	3.8	33.77	7.7	25.8	0.73
I29	15 May 2025	36	10.86	95.02	3.8	33.77	7.7	25.8	0.70
I29	15 May 2025	37	10.85	95.08	3.8	33.77	7.7	25.8	0.65
I30	15 May 2025	1	16.35	89.22	11.5	33.61	8.4	24.6	0.90
I30	15 May 2025	2	16.35	88.90	11.2	33.61	8.4	24.6	0.92
I30	15 May 2025	3	15.95	89.48	10.4	33.59	8.3	24.7	1.20
I30	15 May 2025	4	14.74	88.71	10.3	33.60	8.2	25.0	2.86
I30	15 May 2025	5	14.17	85.74	10.2	33.60	8.2	25.1	4.42
I30	15 May 2025	6	13.72	82.80	9.4	33.61	8.2	25.2	11.05
I30	15 May 2025	7	13.38	76.65	8.6	33.61	8.1	25.2	10.08
I30	15 May 2025	8	13.02	78.49	8.0	33.63	8.1	25.3	11.04
I30	15 May 2025	9	12.85	80.93	7.6	33.63	8.0	25.4	6.69
I30	15 May 2025	10	12.92	84.17	7.3	33.62	8.0	25.3	6.15
I30	15 May 2025	11	12.50	86.46	6.4	33.63	8.0	25.4	5.81
I30	15 May 2025	12	12.13	88.51	5.5	33.64	7.8	25.5	3.94
I30	15 May 2025	13	11.92	90.46	5.0	33.67	7.8	25.6	2.61
I30	15 May 2025	14	11.76	93.33	4.8	33.68	7.8	25.6	2.00
I30	15 May 2025	15	11.70	95.34	4.7	33.68	7.8	25.6	1.47
I30	15 May 2025	16	11.73	95.47	4.6	33.73	7.8	25.7	1.23
I30	15 May 2025	17	11.75	95.02	4.6	33.73	7.8	25.6	0.85
I30	15 May 2025	18	11.76	94.82	4.5	33.75	7.8	25.7	0.82
I30	15 May 2025	19	11.72	94.22	4.4	33.75	7.8	25.7	0.67
I30	15 May 2025	20	11.74	94.18	4.4	33.75	7.8	25.7	0.70
I30	15 May 2025	21	11.63	94.32	4.4	33.75	7.8	25.7	0.77
I30	15 May 2025	22	11.59	94.49	4.3	33.75	7.8	25.7	0.68
I30	15 May 2025	23	11.57	93.90	4.3	33.75	7.8	25.7	0.71
I30	15 May 2025	24	11.55	93.68	4.2	33.75	7.8	25.7	0.77
I30	15 May 2025	25	11.53	93.13	4.2	33.75	7.8	25.7	0.88
I30	15 May 2025	26	11.51	92.53	4.2	33.75	7.8	25.7	0.77
I30	15 May 2025	27	11.49	90.56	4.1	33.75	7.8	25.7	0.94
I30	15 May 2025	28	11.50	88.59	4.1	33.75	7.8	25.7	1.06
I31	15 May 2025	1	16.64	90.69	10.5	33.59	8.3	24.5	0.85
I31	15 May 2025	2	16.62	90.63	10.5	33.59	8.3	24.5	0.85
I31	15 May 2025	3	16.53	90.60	10.7	33.59	8.3	24.5	0.97
I31	15 May 2025	4	16.27	91.40	11.4	33.60	8.4	24.6	1.12
I31	15 May 2025	5	15.72	90.99	12.0	33.60	8.4	24.7	1.40
I31	15 May 2025	6	14.64	89.36	11.9	33.63	8.3	25.0	4.45

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I31	15 May 2025	7	14.04	81.73	10.9	33.62	8.3	25.1	13.85
I31	15 May 2025	8	13.50	75.46	8.9	33.61	8.2	25.2	12.52
I31	15 May 2025	9	13.05	76.35	6.8	33.65	8.0	25.3	14.52
I31	15 May 2025	10	12.88	71.87	5.6	33.72	7.8	25.4	20.05
I31	15 May 2025	11	12.67	68.72	4.9	33.72	7.8	25.5	21.90
I31	15 May 2025	12	12.57	67.10	4.3	33.73	7.7	25.5	22.72
I31	15 May 2025	13	12.52	69.89	4.1	33.73	7.7	25.5	20.44
I31	15 May 2025	14	12.40	73.62	4.0	33.74	7.7	25.5	18.20
I31	15 May 2025	15	12.29	74.93	3.8	33.75	7.7	25.6	15.89
I31	15 May 2025	16	12.28	74.03	3.7	33.75	7.7	25.6	14.61
I31	15 May 2025	17	12.28	74.51	3.6	33.75	7.7	25.6	13.07
I31	15 May 2025	18	12.29	76.00	3.6	33.76	7.7	25.6	9.92
I31	15 May 2025	19	12.28	76.86	3.6	33.76	7.7	25.6	10.33
I33	15 May 2025	1	15.58	88.76	9.9	33.60	8.2	24.8	1.00
I33	15 May 2025	2	15.19	89.36	9.8	33.60	8.2	24.9	1.10
I33	15 May 2025	3	14.79	88.70	9.4	33.60	8.2	24.9	1.70
I33	15 May 2025	4	14.21	86.66	8.7	33.60	8.1	25.1	3.84
I33	15 May 2025	5	13.46	83.08	8.2	33.61	8.1	25.2	7.68
I33	15 May 2025	6	12.96	79.31	7.9	33.60	8.1	25.3	10.65
I33	15 May 2025	7	12.68	77.61	7.5	33.60	8.0	25.4	10.10
I33	15 May 2025	8	12.46	80.50	7.2	33.60	8.0	25.4	8.77
I33	15 May 2025	9	12.43	82.38	6.9	33.60	8.0	25.4	7.17
I33	15 May 2025	10	12.31	81.70	6.8	33.59	8.0	25.4	7.35
I33	15 May 2025	11	12.18	85.26	6.6	33.61	8.0	25.5	6.23
I33	15 May 2025	12	12.15	86.91	6.5	33.63	7.9	25.5	6.17
I33	15 May 2025	13	12.15	86.50	6.3	33.63	7.9	25.5	6.83
I33	15 May 2025	14	12.08	87.13	6.1	33.64	7.9	25.5	6.17
I33	15 May 2025	15	12.05	88.13	5.9	33.64	7.9	25.5	4.84
I33	15 May 2025	16	12.03	89.88	5.5	33.67	7.9	25.6	4.87
I33	15 May 2025	17	12.03	91.90	5.0	33.75	7.8	25.6	2.99
I33	15 May 2025	18	12.01	92.06	4.6	33.76	7.8	25.6	0.88
I33	15 May 2025	19	11.96	90.22	4.5	33.76	7.8	25.6	0.88
I33	15 May 2025	20	11.98	91.10	4.5	33.74	7.8	25.6	1.13
I33	15 May 2025	21	11.79	90.70	4.5	33.75	7.8	25.7	1.20
I33	15 May 2025	22	11.68	90.79	4.4	33.75	7.8	25.7	0.88
I33	15 May 2025	23	11.66	91.23	4.3	33.74	7.8	25.7	0.95
I33	15 May 2025	24	11.49	91.77	4.3	33.73	7.8	25.7	0.82
I33	15 May 2025	25	11.32	92.81	4.3	33.73	7.8	25.7	0.67
I33	15 May 2025	26	11.44	93.20	4.2	33.73	7.8	25.7	0.77
I33	15 May 2025	27	11.27	93.80	4.2	33.74	7.8	25.7	0.68
I33	15 May 2025	28	11.25	93.94	4.2	33.74	7.8	25.7	0.64
I33	15 May 2025	29	11.23	94.09	4.2	33.74	7.8	25.8	0.61
I33	15 May 2025	30	11.22	93.96	4.1	33.74	7.8	25.8	0.61
I34	15 May 2025	1	15.04	88.38	9.3	33.59	8.2	24.9	1.32
I34	15 May 2025	2	14.83	88.43	9.1	33.59	8.2	24.9	1.43
I34	15 May 2025	3	14.17	87.18	8.5	33.60	8.1	25.1	2.86
I34	15 May 2025	4	13.87	83.52	8.1	33.60	8.1	25.1	5.60
I34	15 May 2025	5	13.77	78.65	7.9	33.60	8.0	25.1	8.30
I34	15 May 2025	6	13.71	78.63	7.7	33.60	8.0	25.2	6.46
I34	15 May 2025	7	13.67	81.80	7.4	33.60	8.0	25.2	5.14
I34	15 May 2025	8	13.36	82.29	7.0	33.62	8.0	25.3	5.74
I34	15 May 2025	9	12.94	82.23	6.6	33.66	7.9	25.4	5.58
I34	15 May 2025	10	13.17	82.47	6.5	33.64	7.9	25.3	5.56
I34	15 May 2025	11	12.84	83.18	6.3	33.66	7.9	25.4	5.79
I34	15 May 2025	12	12.29	83.03	5.6	33.69	7.9	25.5	6.46
I34	15 May 2025	13	12.15	85.21	4.7	33.72	7.8	25.6	2.95
I34	15 May 2025	14	12.07	89.59	4.6	33.74	7.7	25.6	2.26
I34	15 May 2025	15	12.08	91.24	4.4	33.75	7.7	25.6	1.26
I34	15 May 2025	16	12.09	90.18	4.4	33.74	7.8	25.6	1.42

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I34	15 May 2025	17	12.01	90.89	4.3	33.75	7.7	25.6	1.41
I34	15 May 2025	18	11.99	89.62	4.3	33.75	7.8	25.6	1.23
I34	15 May 2025	19	11.99	87.38	4.3	33.75	7.8	25.6	1.38
I35	15 May 2025	1	16.36	90.99	11.3	33.61	8.4	24.6	0.57
I35	15 May 2025	2	16.27	90.96	11.3	33.61	8.4	24.6	0.59
I35	15 May 2025	3	16.09	90.76	11.4	33.61	8.4	24.7	0.74
I35	15 May 2025	4	15.84	90.46	11.9	33.60	8.4	24.7	0.95
I35	15 May 2025	5	15.09	90.02	12.1	33.61	8.4	24.9	1.26
I35	15 May 2025	6	14.35	88.46	11.4	33.63	8.3	25.1	1.75
I35	15 May 2025	7	13.83	85.81	11.3	33.63	8.3	25.2	3.72
I35	15 May 2025	8	13.48	83.25	10.8	33.62	8.2	25.2	7.21
I35	15 May 2025	9	13.05	80.30	9.9	33.61	8.2	25.3	9.64
I35	15 May 2025	10	12.81	80.01	9.2	33.61	8.1	25.4	12.95
I35	15 May 2025	11	12.54	74.56	7.8	33.62	8.0	25.4	20.68
I35	15 May 2025	12	12.31	71.60	5.9	33.63	7.8	25.5	20.03
I35	15 May 2025	13	12.16	74.29	5.0	33.65	7.8	25.5	17.39
I35	15 May 2025	14	11.99	78.28	4.8	33.63	7.8	25.5	15.58
I35	15 May 2025	15	11.84	82.27	4.8	33.62	7.8	25.5	11.42
I35	15 May 2025	16	11.90	86.01	4.8	33.62	7.8	25.5	10.36
I35	15 May 2025	17	11.76	87.13	4.7	33.62	7.8	25.6	4.77
I35	15 May 2025	18	11.74	78.79	4.6	33.62	7.8	25.6	1.73
I35	15 May 2025	19	11.72	71.95	4.5	33.62	7.8	25.6	1.62
I36	15 May 2025	1	16.95	83.67	9.2	33.60	8.2	24.5	0.75
I36	15 May 2025	2	16.87	83.60	9.2	33.60	8.2	24.5	0.73
I36	15 May 2025	3	16.67	82.56	9.2	33.60	8.2	24.5	0.96
I36	15 May 2025	4	16.25	81.25	9.1	33.59	8.2	24.6	1.25
I36	15 May 2025	5	16.04	77.81	9.0	33.59	8.2	24.7	1.62
I36	15 May 2025	6	14.71	74.26	10.6	33.55	8.3	24.9	2.38
I36	15 May 2025	7	12.93	72.60	11.9	33.55	8.3	25.3	7.51
I36	15 May 2025	8	12.28	66.63	9.9	33.53	8.2	25.4	16.91
I36	15 May 2025	9	12.25	67.19	7.9	33.53	8.0	25.4	12.79
I36	15 May 2025	10	12.00	73.71	6.9	33.51	7.9	25.4	10.26
I36	15 May 2025	11	11.92	59.11	5.4	33.51	7.8	25.4	9.66
I37	15 May 2025	1	15.16	87.59	9.4	33.59	8.2	24.9	1.28
I37	15 May 2025	2	15.07	87.38	9.4	33.59	8.2	24.9	1.66
I37	15 May 2025	3	15.01	87.07	9.4	33.59	8.2	24.9	2.02
I37	15 May 2025	4	14.93	86.92	9.4	33.59	8.2	24.9	2.23
I37	15 May 2025	5	14.34	86.80	8.9	33.59	8.2	25.0	2.81
I37	15 May 2025	6	13.25	80.85	7.7	33.61	8.0	25.3	12.33
I37	15 May 2025	7	12.88	70.36	6.8	33.61	7.9	25.3	15.78
I37	15 May 2025	8	12.77	71.31	6.4	33.62	7.9	25.4	12.66
I37	15 May 2025	9	12.73	72.69	6.0	33.63	7.9	25.4	15.57
I37	15 May 2025	10	12.60	74.05	5.8	33.64	7.8	25.4	11.62
I37	15 May 2025	11	12.13	83.11	5.2	33.70	7.8	25.6	4.52
I37	15 May 2025	12	11.95	83.22	4.8	33.71	7.8	25.6	3.20
I38	15 May 2025	1	16.74	87.11	9.6	33.60	8.3	24.5	0.53
I38	15 May 2025	2	16.70	87.00	9.6	33.60	8.3	24.5	0.55
I38	15 May 2025	3	16.67	86.94	9.6	33.60	8.3	24.5	0.61
I38	15 May 2025	4	16.65	86.87	9.6	33.60	8.3	24.5	0.68
I38	15 May 2025	5	16.62	86.79	9.6	33.59	8.3	24.5	0.77
I38	15 May 2025	6	16.53	86.68	9.3	33.58	8.3	24.5	0.88
I38	15 May 2025	7	14.12	86.77	10.0	33.51	8.2	25.0	0.88
I38	15 May 2025	8	12.76	86.88	10.7	33.54	8.2	25.3	0.99
I38	15 May 2025	9	12.52	83.20	11.0	33.51	8.2	25.3	3.80
I38	15 May 2025	10	12.17	66.58	10.1	33.51	8.2	25.4	9.37
I38	15 May 2025	11	12.04	76.08	7.3	33.52	8.0	25.4	7.87

NA = not available

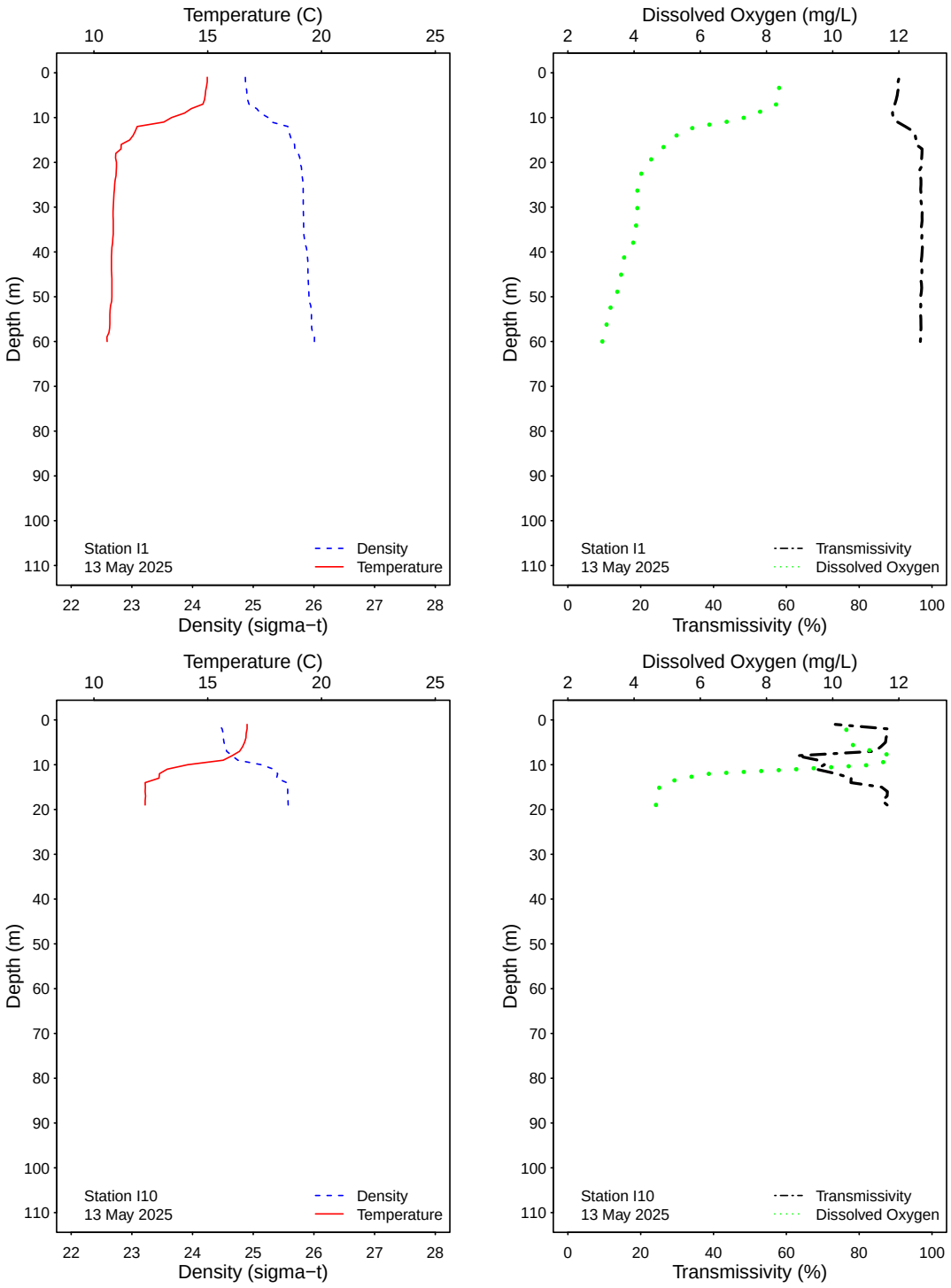

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

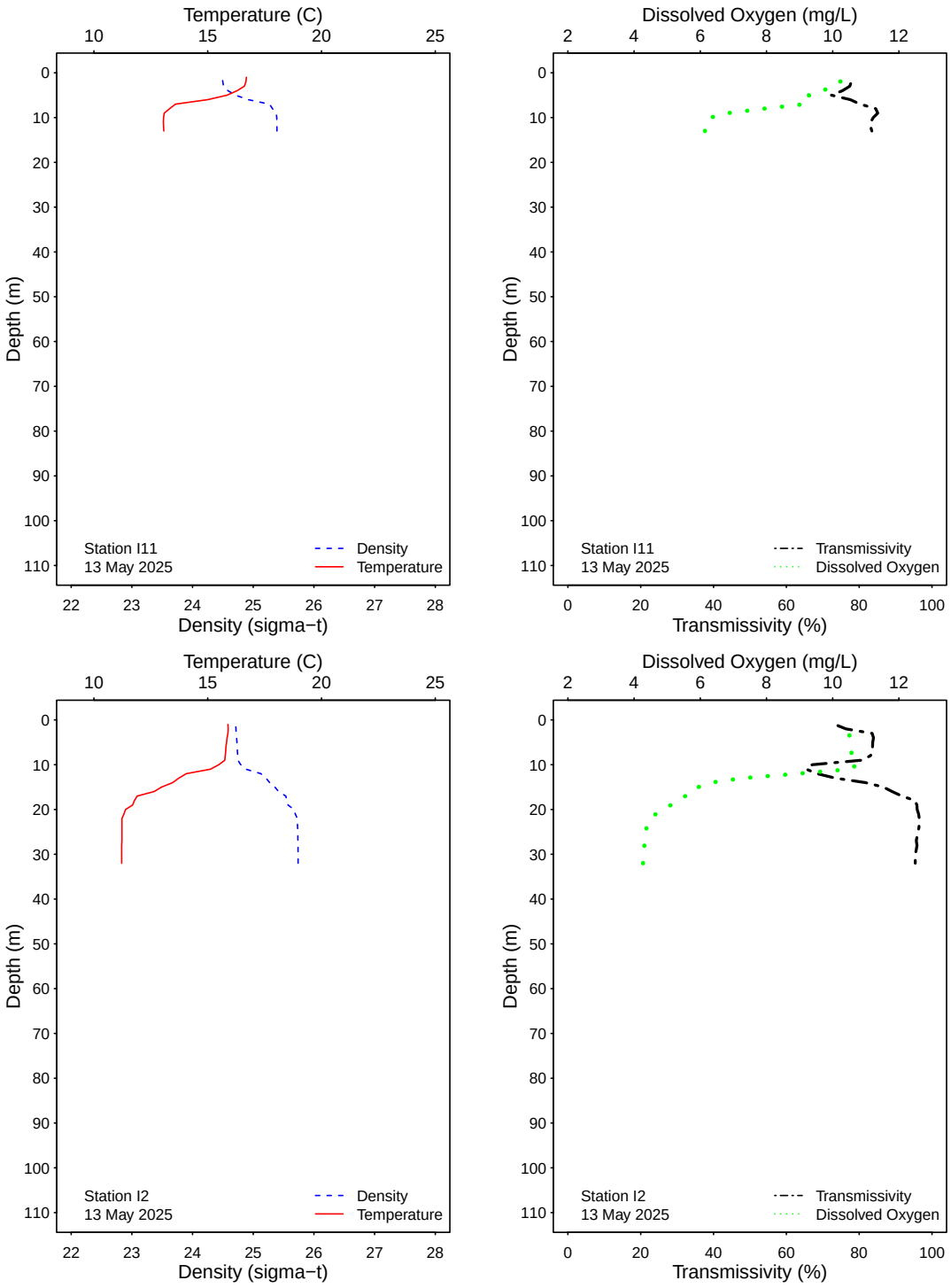

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

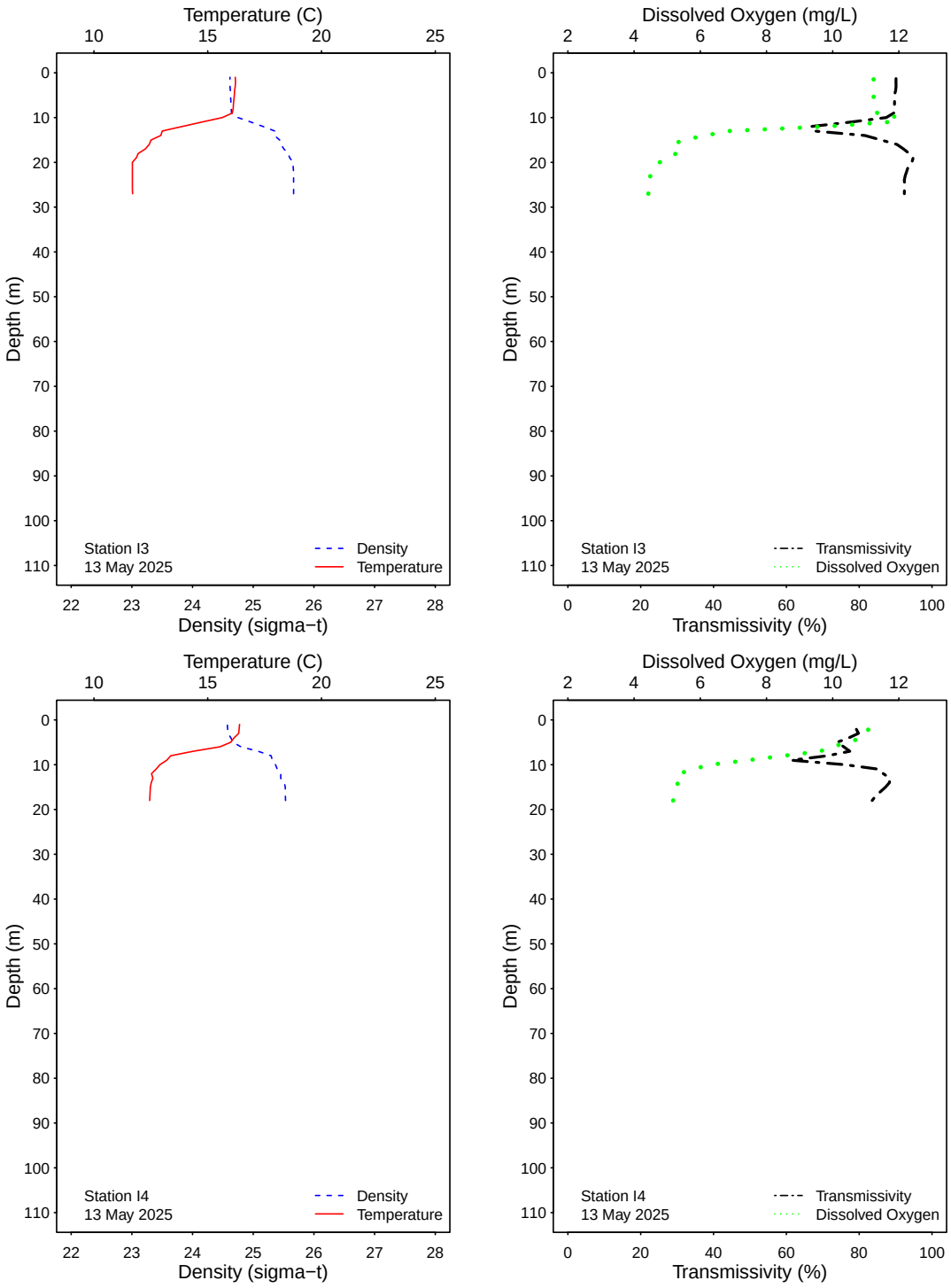

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

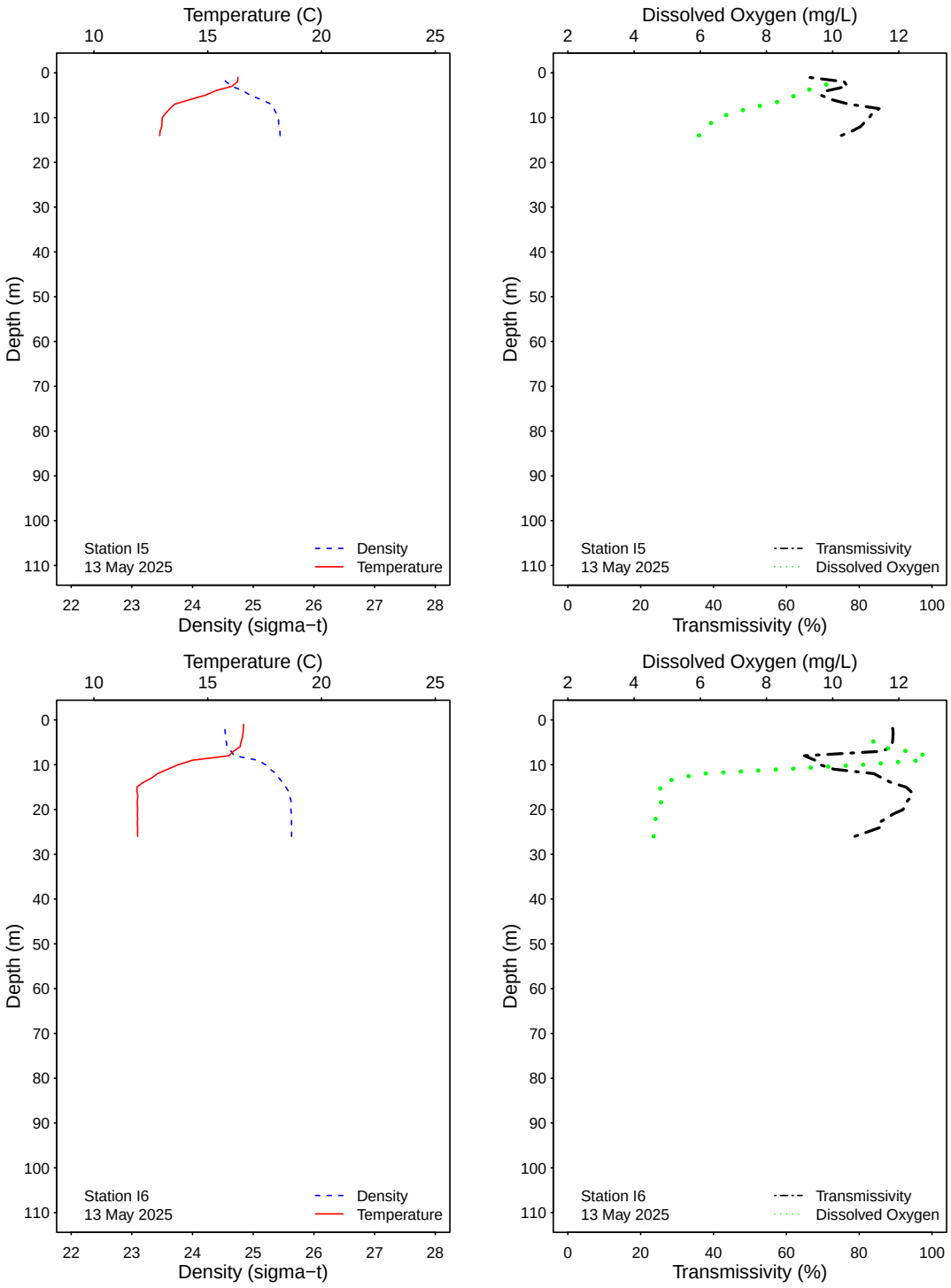

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

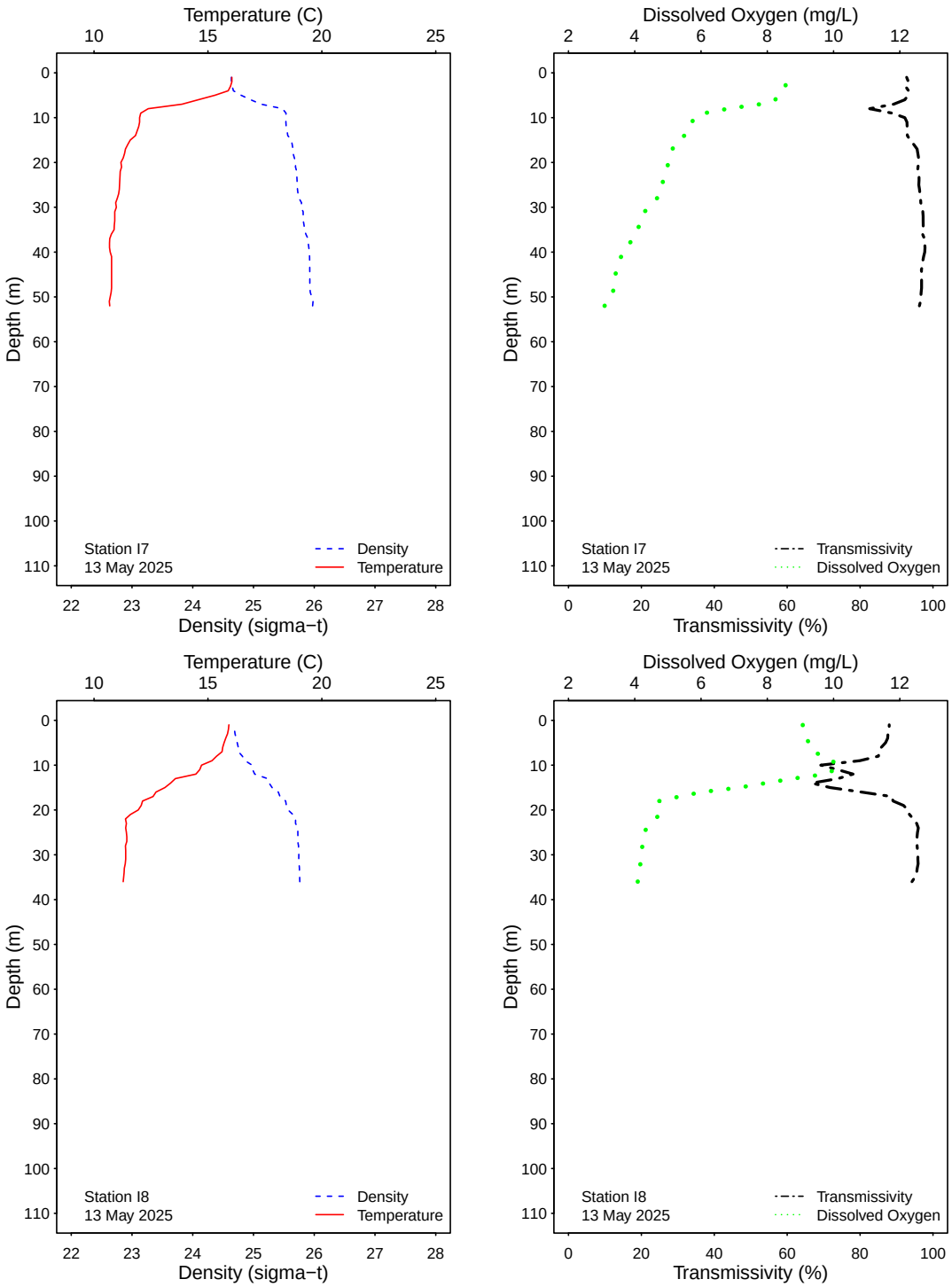

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

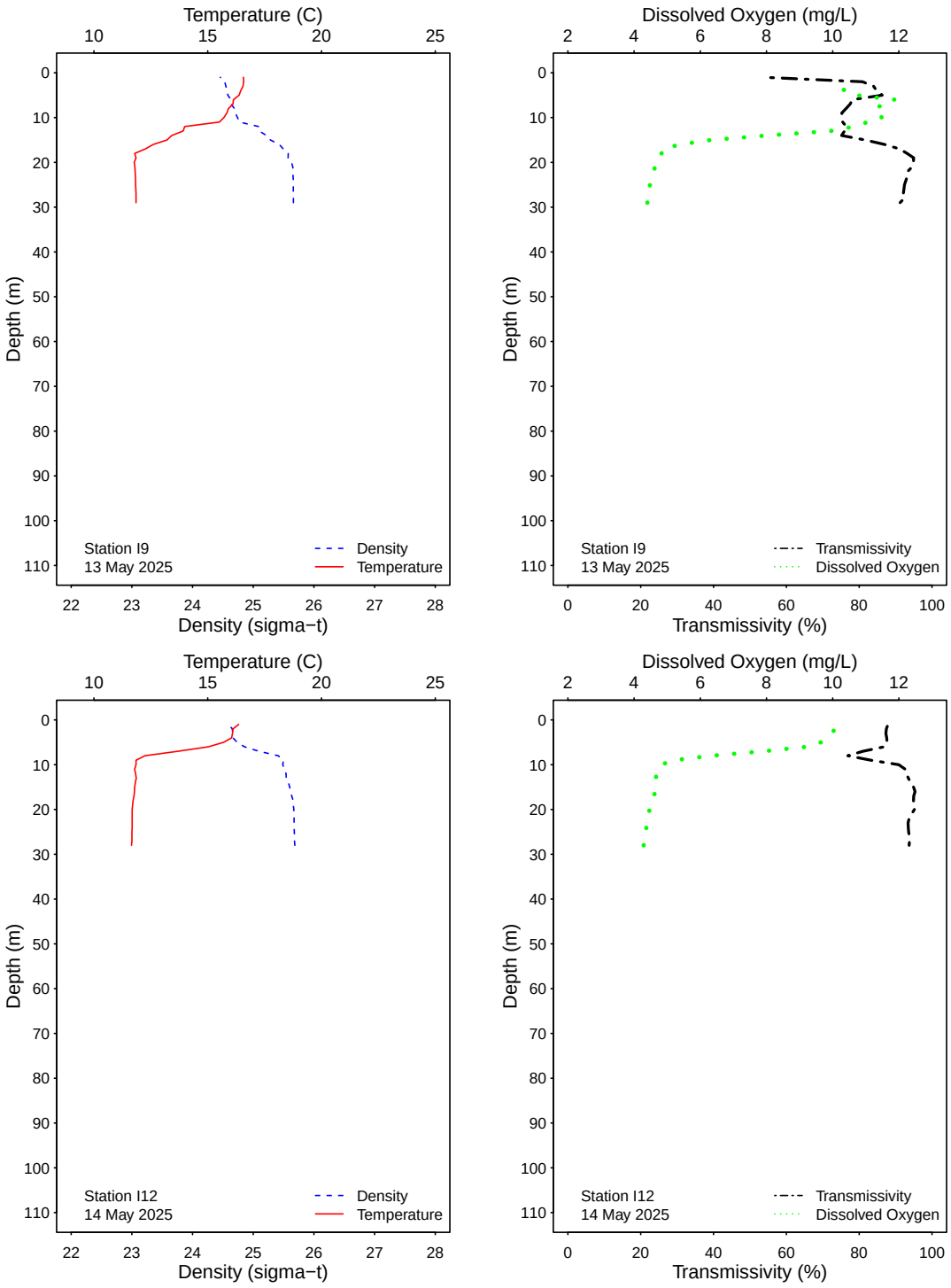

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

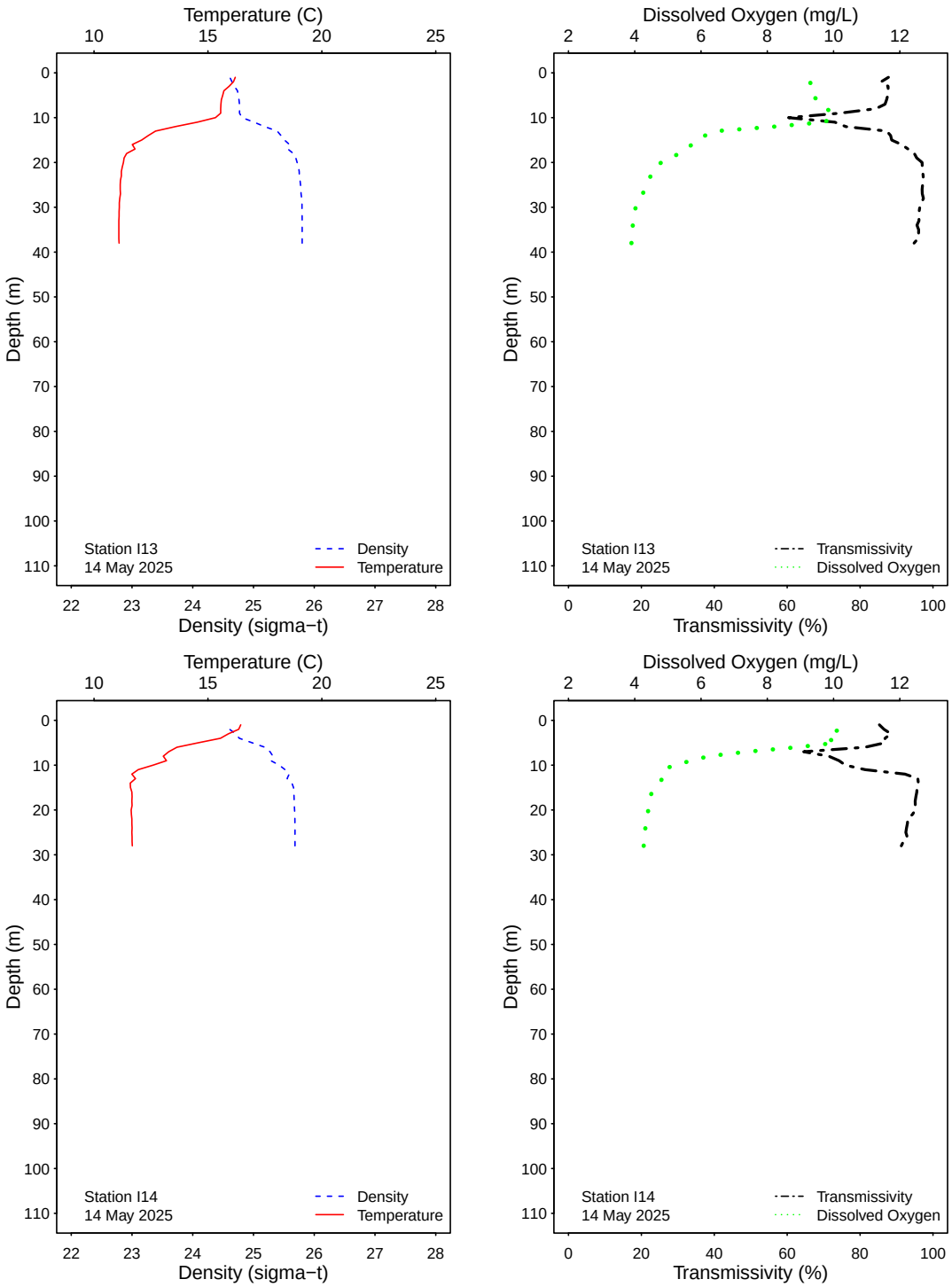

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

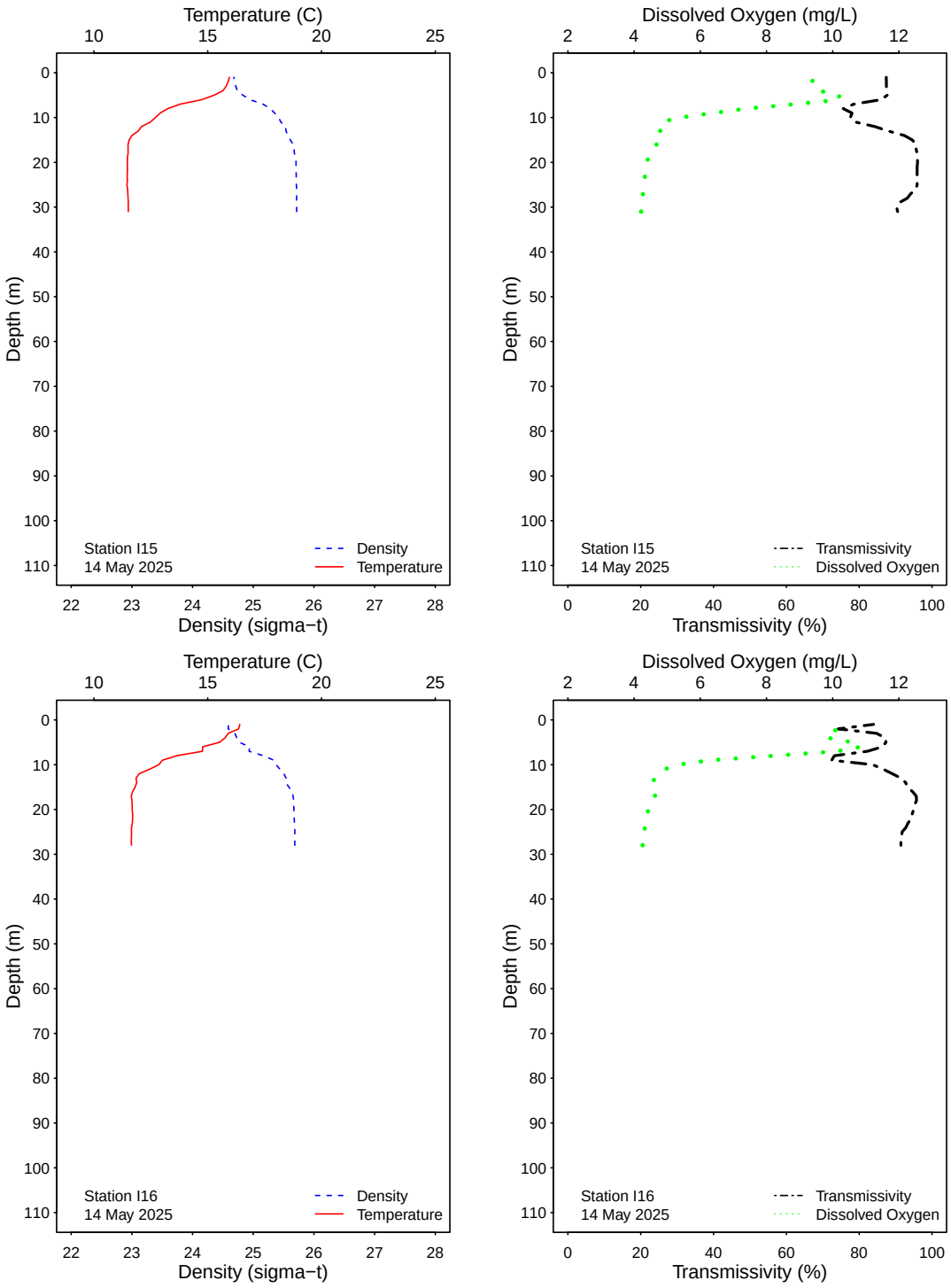

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

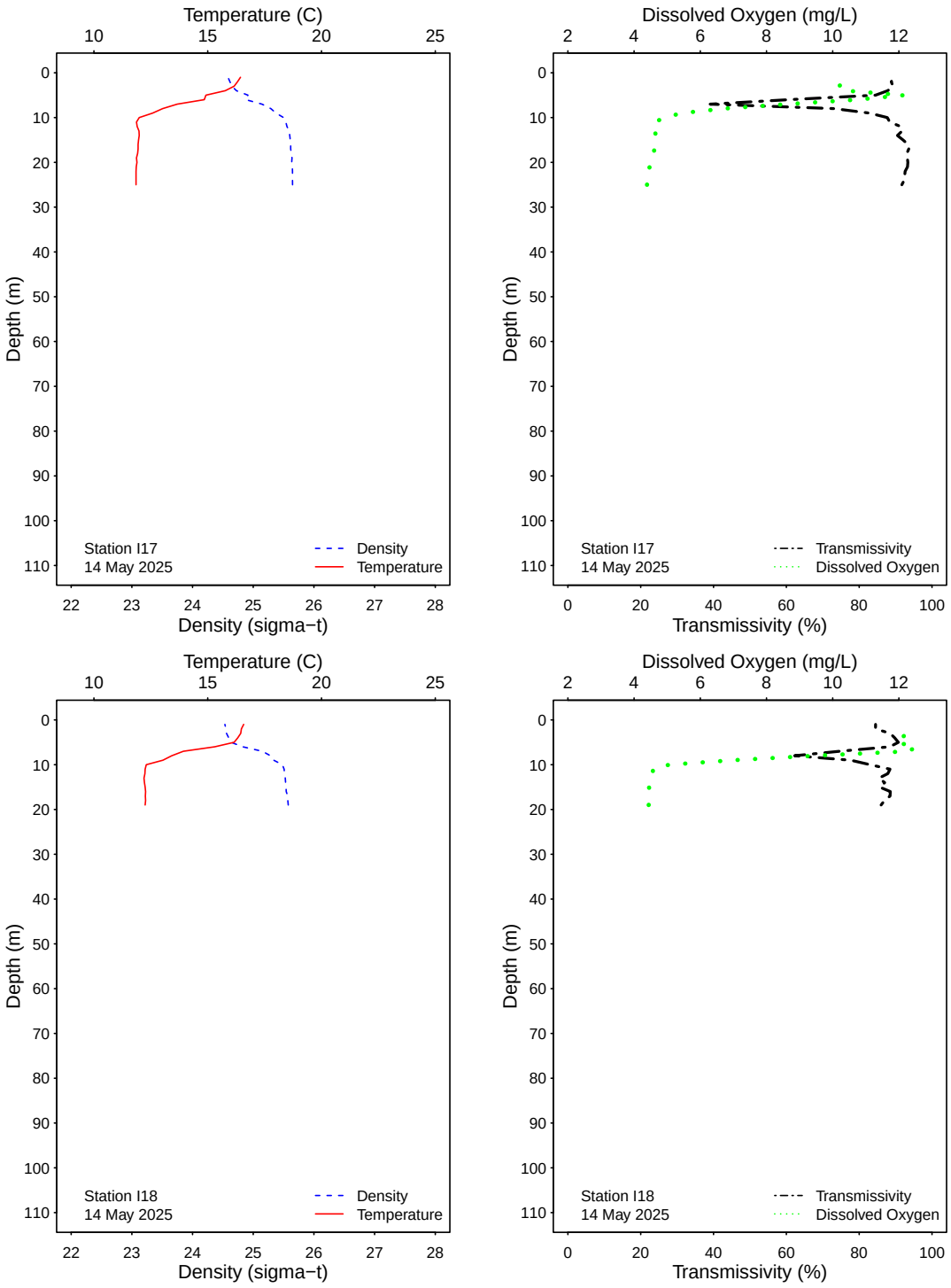

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

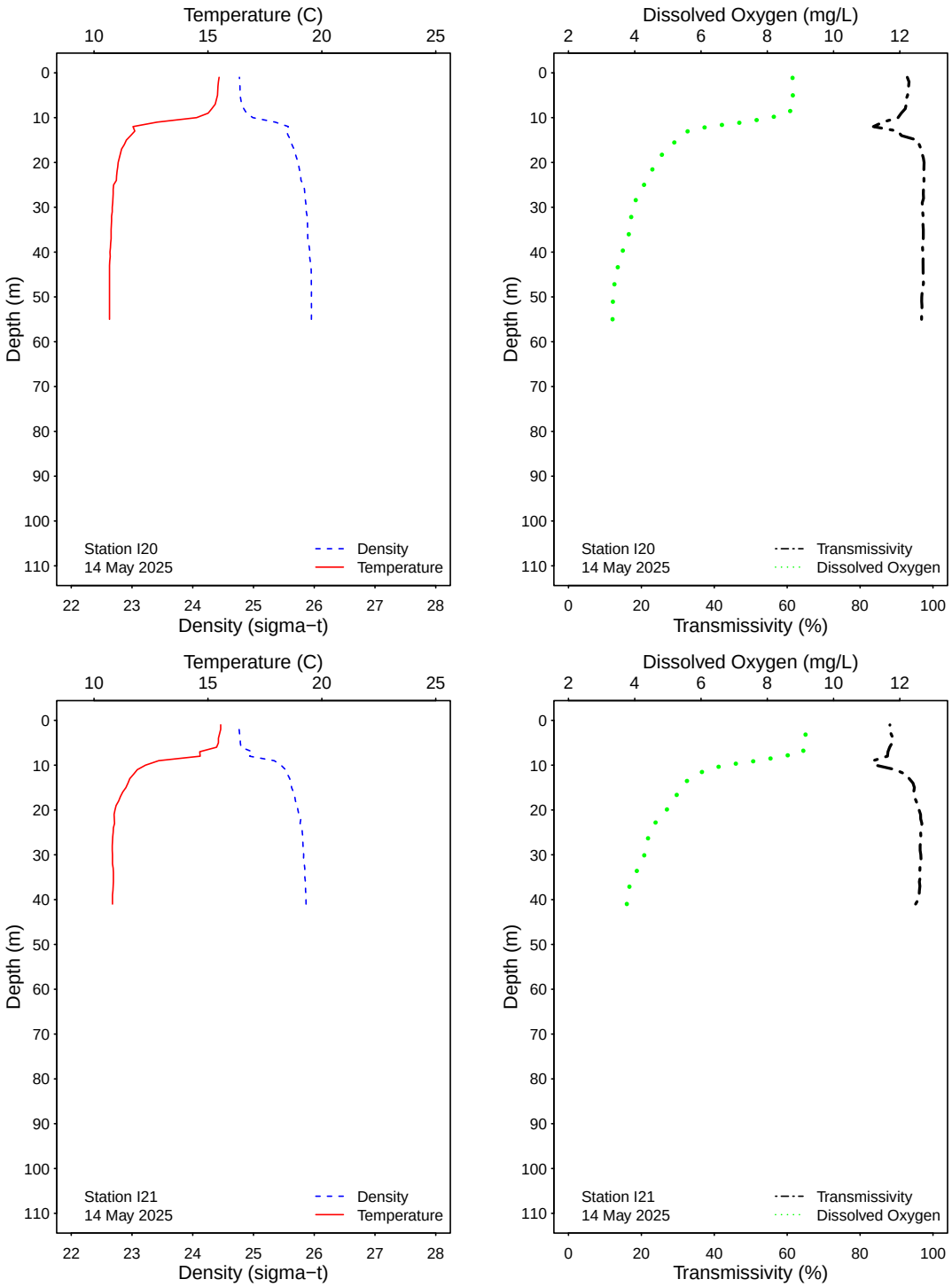

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

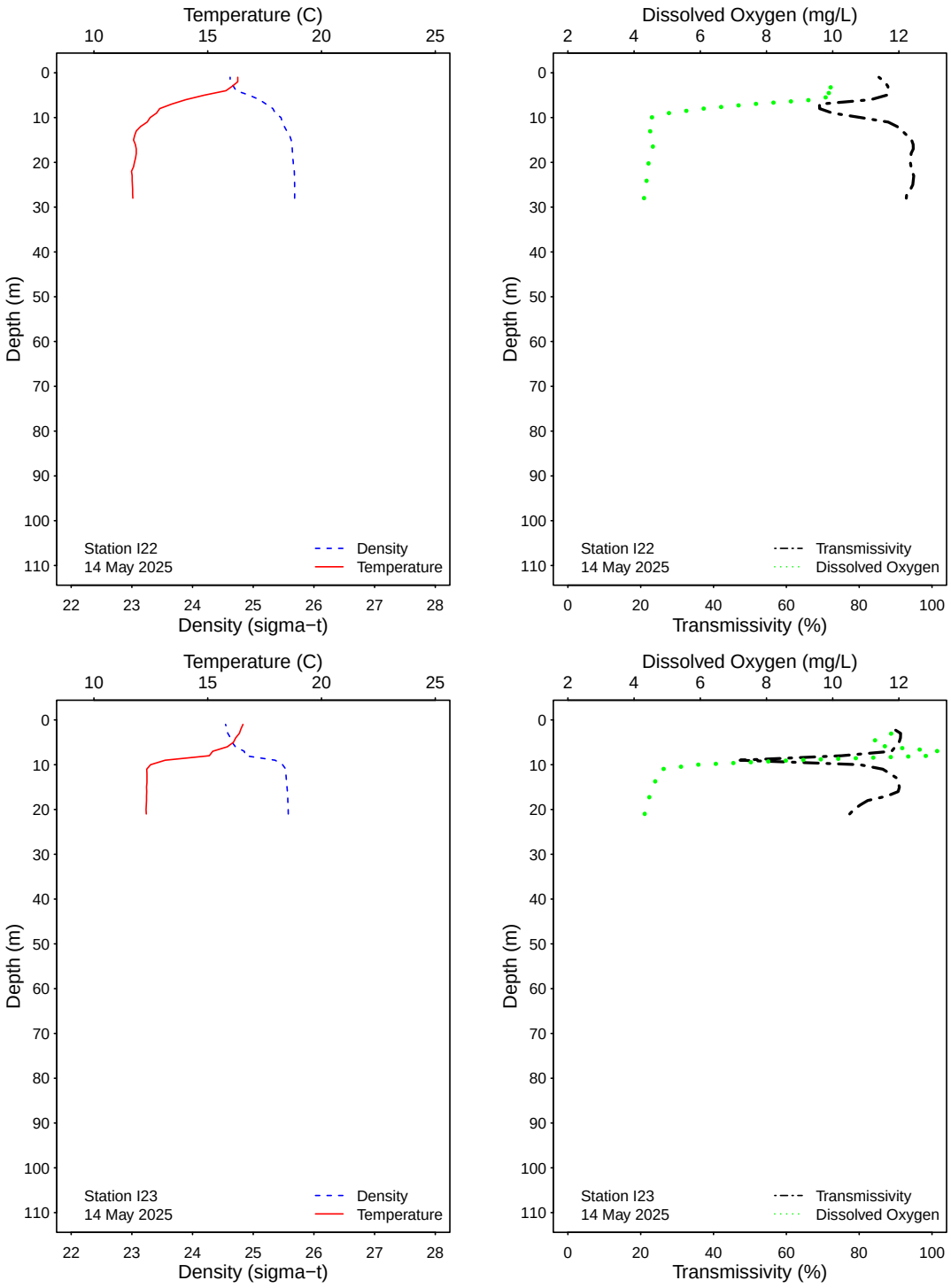

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

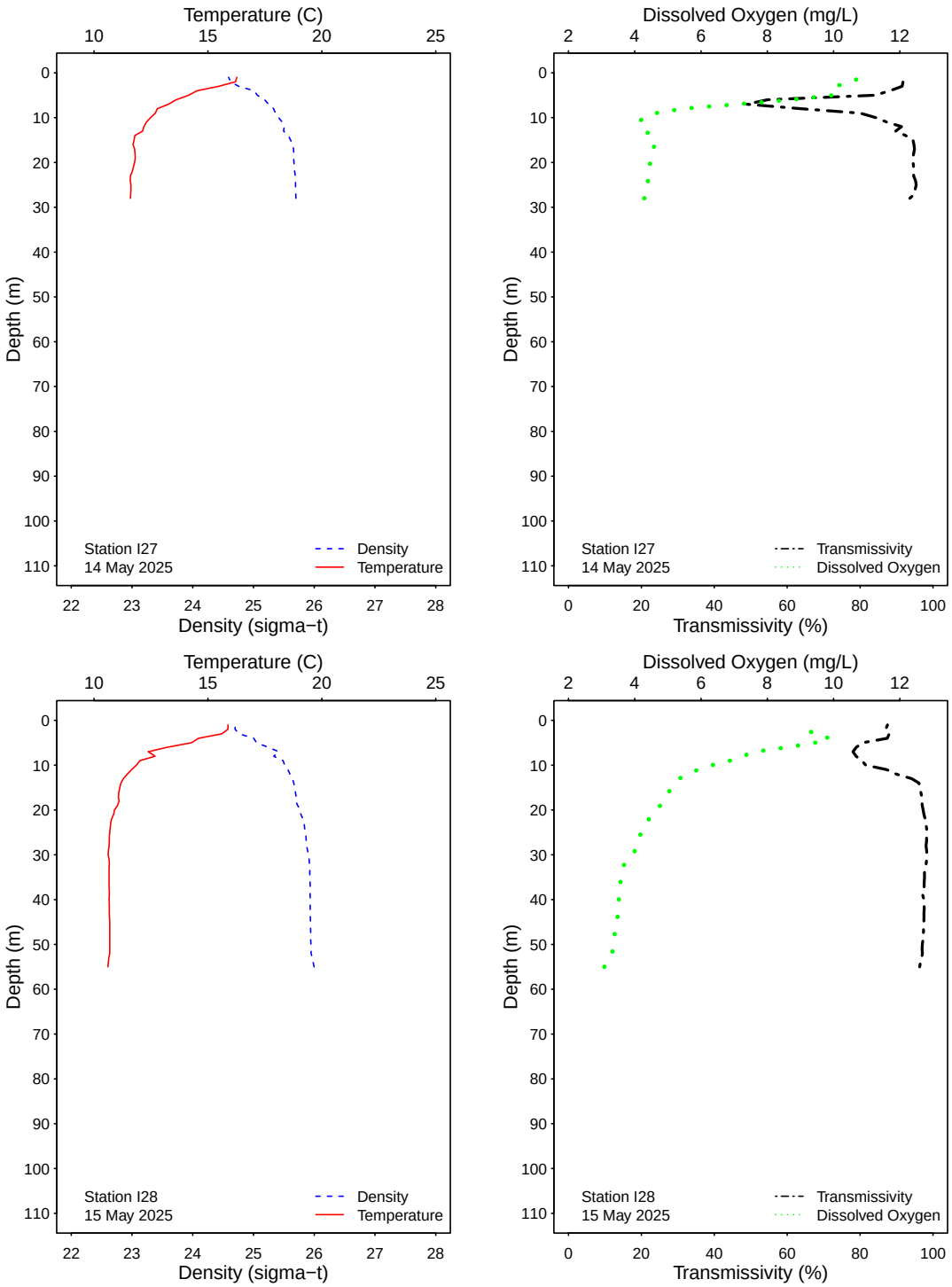

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

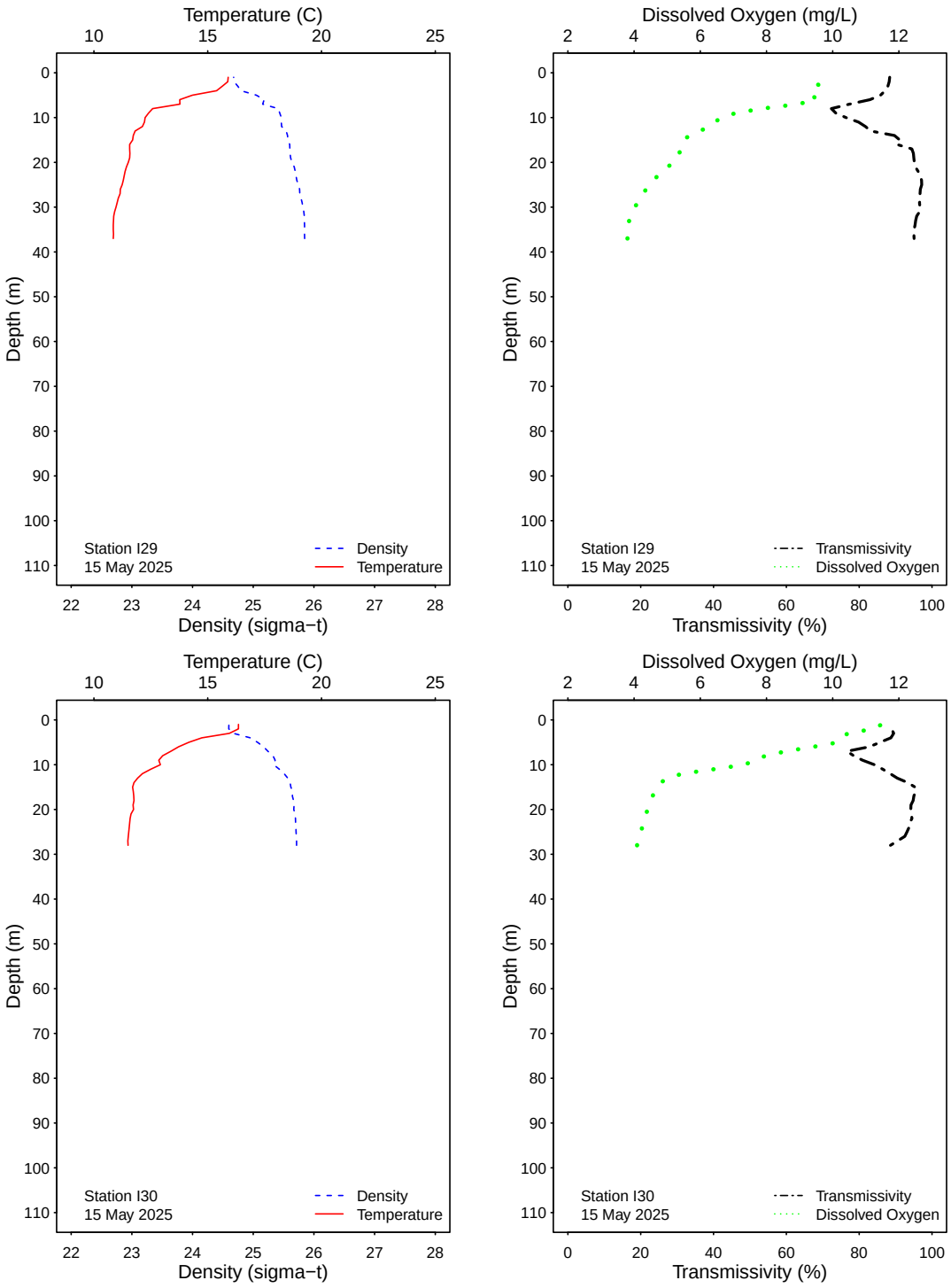

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

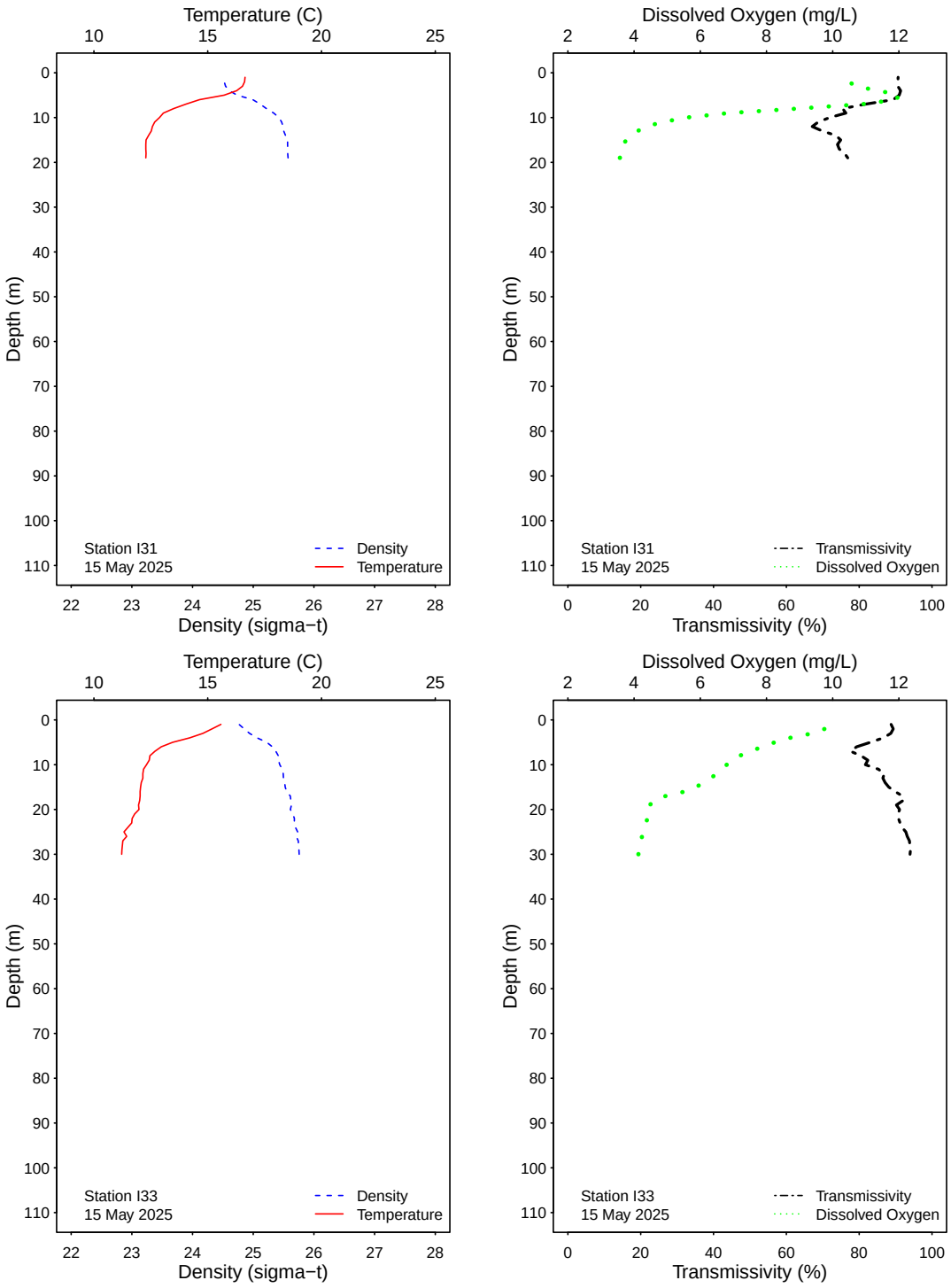

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

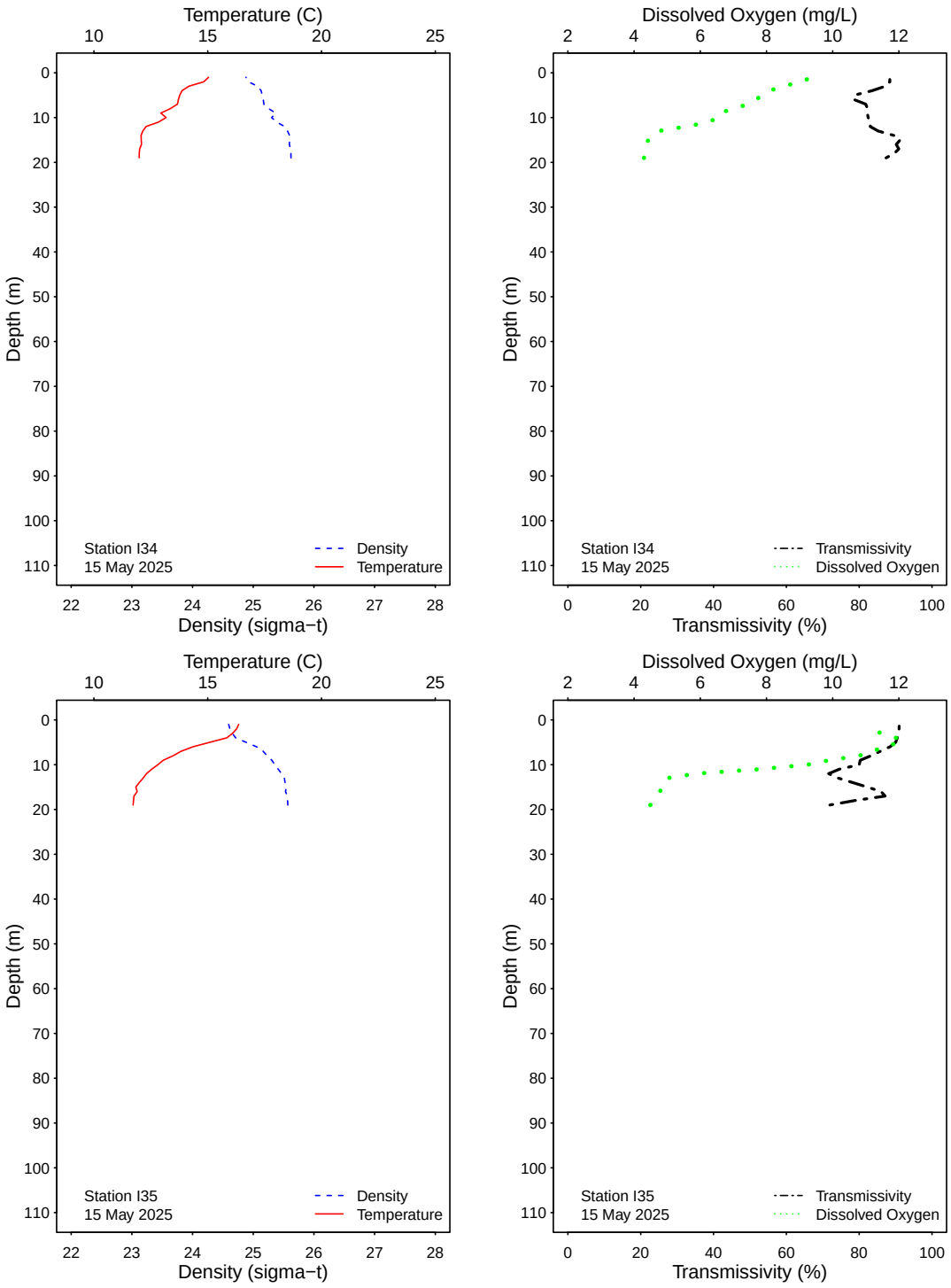

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

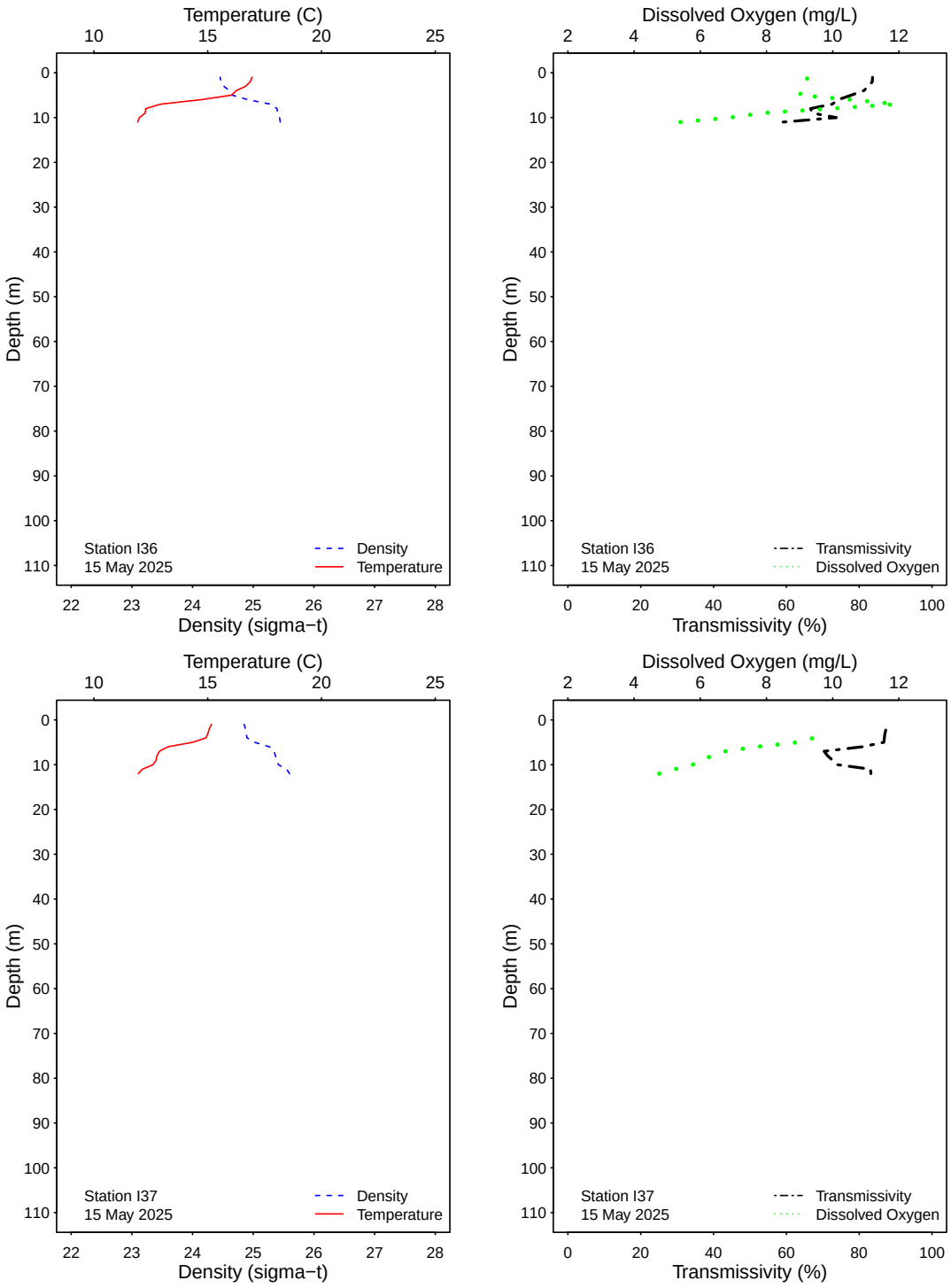

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

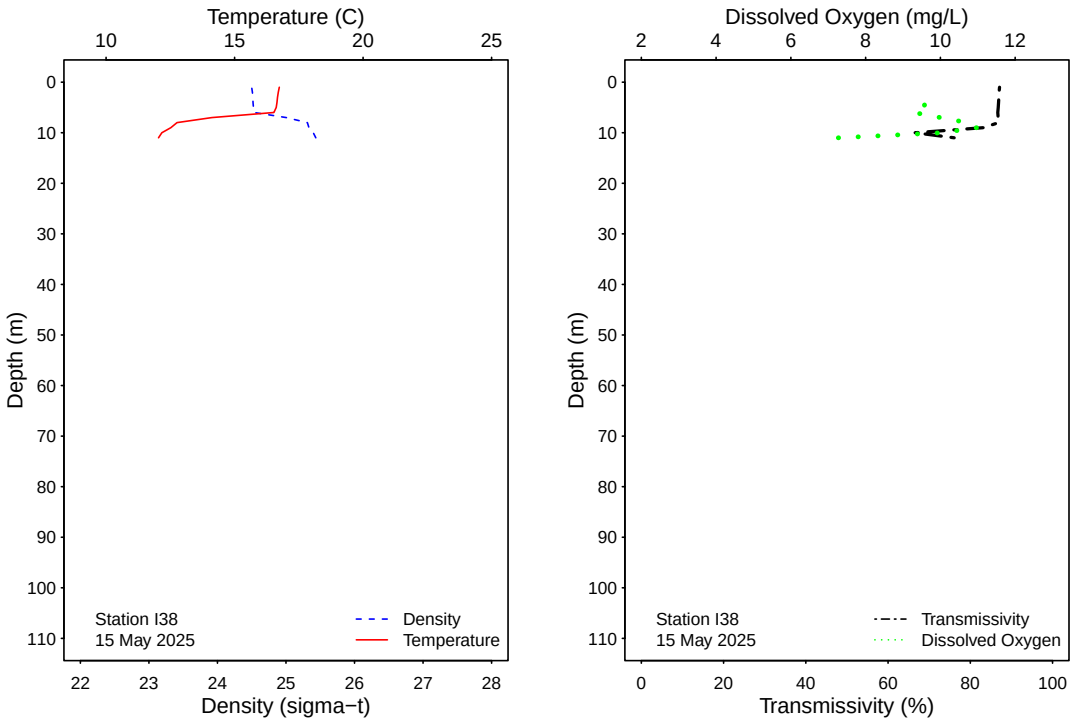

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

APPENDIX A

Quality Assurance

Table A.1

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

Station	Date	Depth	Analyst	Procedure	Total	Fecal	Entero
I3	13 May 2025	18	NCD	LAB DUPLICATE	2	2	2
I9	13 May 2025	27	NCD	LAB DUPLICATE	2	2	2
I8	13 May 2025	37	NCD	LAB DUPLICATE	2	2	2
I12	14 May 2025	18	KT	LAB DUPLICATE	20	6	2
I19	06 May 2025	6	JF	LAB DUPLICATE	440	48	22
I19	12 May 2025	6	ADG	LAB DUPLICATE	2	2	2
I19	19 May 2025	6	ADG	LAB DUPLICATE	20	2	2
I19	27 May 2025	6	WT	LAB DUPLICATE	200	14	18
I13	14 May 2025	18	KT	LAB DUPLICATE	2	2	2
I16	14 May 2025	18	KT	LAB DUPLICATE	6	2	2
I40	06 May 2025	6	JF	LAB DUPLICATE	200	16	18
I40	12 May 2025	6	ADG	LAB DUPLICATE	2	2	2
I40	19 May 2025	6	ADG	LAB DUPLICATE	80	16	26
I40	27 May 2025	6	WT	LAB DUPLICATE	120	4	28
S12	06 May 2025		JF	LAB DUPLICATE	620	60	74
S12	06 May 2025		JF	FIELD DUPLICATE	500	62	68
S12	13 May 2025		KT	FIELD DUPLICATE	20	2	2
S12	13 May 2025		KT	LAB DUPLICATE	20	2	2
S12	20 May 2025		KT	FIELD DUPLICATE	130	2	520
S12	20 May 2025		KT	LAB DUPLICATE	24	2	600
S12	27 May 2025		ADG	LAB DUPLICATE	40	2	22
S12	27 May 2025		ADG	FIELD DUPLICATE	60	8	30
S12	29 May 2025		KT	FIELD DUPLICATE	ns	10	ns
S12	29 May 2025		KT	LAB DUPLICATE	ns	6	ns
I30	15 May 2025	27	AGD	LAB DUPLICATE	2	2	2
I36	15 May 2025	11	AGD	LAB DUPLICATE	20	2	2
I36	15 May 2025	11	AGD	FIELD DUPLICATE	20	2	2

ns = not sampled
ND = no data

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