

SOUTH BAY OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

SOUTH BAY WATER RECLAMATION PLANT

NPDES Permit No. CA0109045
SDRWQCB Order No. R9-2026-0006

JULY 2026

Environmental Monitoring and Technical Services
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August 31, 2026

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 July 2026 Monthly Receiving Waters Monitoring Report for the South Bay Ocean Outfall, South Bay Water Reclamation Plant as required per Order No. R9-2021-0011 as amended by Order No. R9-2026-0006, 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. R9-2026-0006, 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:

Water-Contact Objectives

Fecal coliform:

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

Enterococci:

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

Shellfish Harvesting Standards

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, 1987²) is used to statistically compare both the results from the laboratory duplicates, as well as the results from the field duplicates. These data will be further analyzed in the City's 2026 Quality Assurance Report, which will be completed in March 2027.

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 July, seven 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, S6, 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 S5, S6, S11, and S12.
 - The statistical threshold value (STV) standard for *Enterococcus* was exceeded at stations S5, S6, 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 S4, S5, S6, S9, 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 detected at SBOO shore stations S5, S6, S11, and S12 on one or more days in July.
- 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 July 6, 16, 20, and 30.
 - During July, two of the seven kelp bed stations were out of compliance with the 2019 Ocean Plan water contact standards on one or more days as follows:
 - The 30-day running median standard for total coliforms was exceeded at station I19.
 - The STV standard for total coliforms was exceeded at stations I19 and I40.
 - Water column temperatures ranged from 13.48 to 23.28°C. The difference between surface and bottom waters ranged from 0.23 to 7.80°C.
 - Concentrations of chlorophyll *a* ranged from 0.14 to 10.49 µg/L at the kelp bed stations.
 - Nothing of sewage origin was detected at SBOO kelp stations in July.
- **Offshore Water Quality Sampling**
 - Quarterly sampling was not conducted during June at the offshore stations. The next quarterly sampling is scheduled for August 2026.



TABLES AND FIGURES

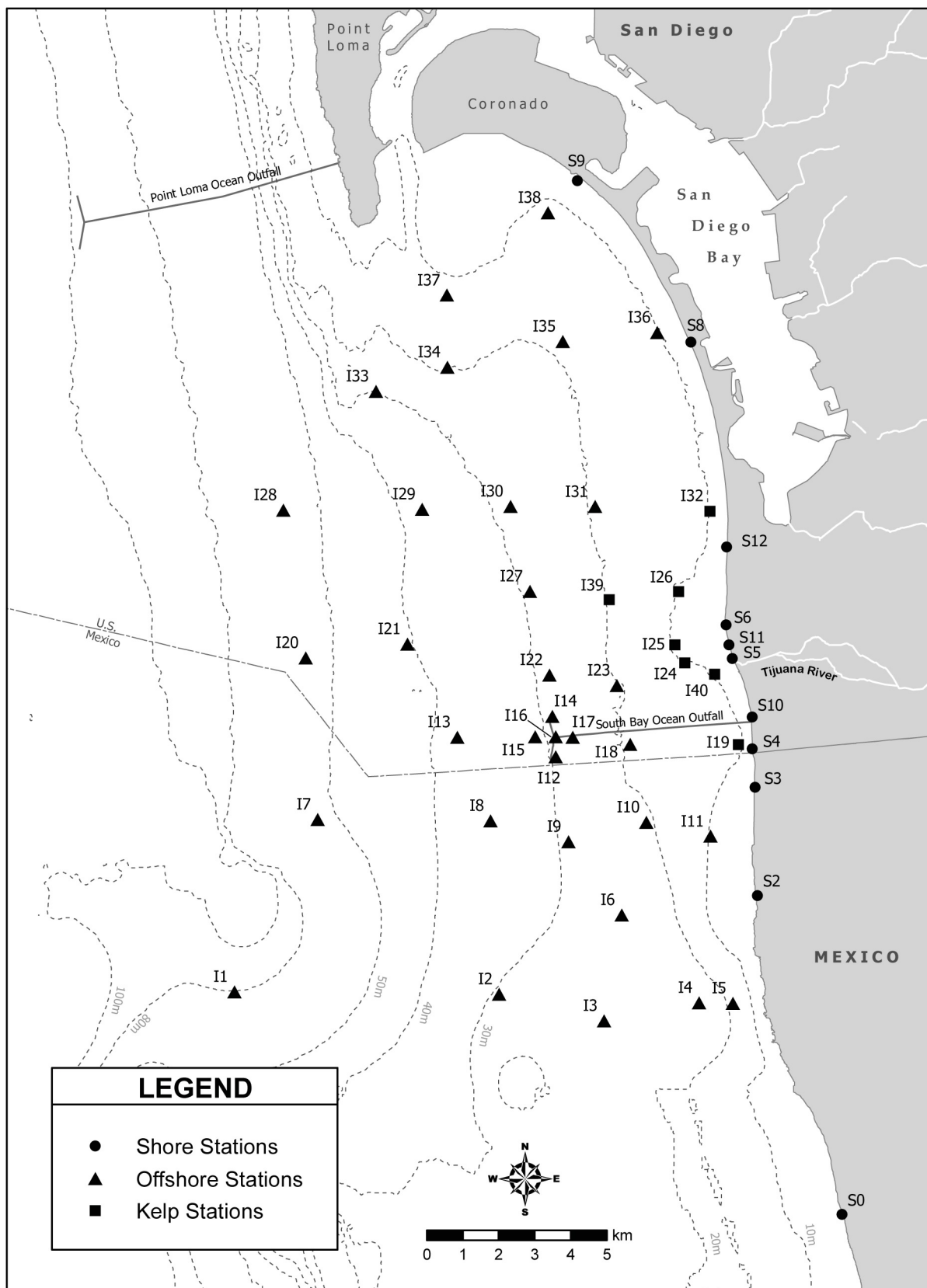


Figure 1.1 Station Map

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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 Jul 2026	12	1748	379	7	7	6	1402	72
02 Jul 2026	*9	*1080	*160	*4	*8	*4	*820	*20
03 Jul 2026	*9	*1080	*160	*4	*8	*4	*820	*20
04 Jul 2026	*9	*1080	*160	*4	*8	*4	*820	*20
05 Jul 2026	*9	*1080	*160	*4	*8	*4	*820	*20
06 Jul 2026	*9	*1080	*160	*4	*8	*4	*820	*20
07 Jul 2026	8	1168	167	3	7	4	618	19
08 Jul 2026	8	1168	167	3	7	4	618	19
09 Jul 2026	*9	*701	*134	*4	*9	*4	*659	*33
10 Jul 2026	*9	*701	*134	*4	*9	*4	*659	*33
11 Jul 2026	*9	*701	*134	*4	*9	*4	*659	*33
12 Jul 2026	*9	*701	*134	*4	*9	*4	*659	*33
13 Jul 2026	*9	*701	*134	*4	*9	*4	*659	*33
14 Jul 2026	18	522	221	5	7	5	618	33
15 Jul 2026	18	522	221	5	7	5	618	33
16 Jul 2026	*24	*238	*94	*7	*5	*6	*310	*19
17 Jul 2026	*24	*238	*94	*7	*5	*6	*310	*19
18 Jul 2026	*24	*238	*94	*7	*5	*6	*310	*19
19 Jul 2026	*24	*238	*94	*7	*5	*6	*310	*19
20 Jul 2026	*24	*238	*94	*7	*5	*6	*310	*19
21 Jul 2026	31	114	50	7	5	7	130	12
22 Jul 2026	31	114	50	7	5	7	130	12
23 Jul 2026	31	114	50	7	5	7	130	12
24 Jul 2026	*37	*159	*53	*5	*4	*6	*157	*10
25 Jul 2026	*37	*159	*53	*5	*4	*6	*157	*10
26 Jul 2026	*37	*159	*53	*5	*4	*6	*157	*10
27 Jul 2026	*37	*159	*53	*5	*4	*6	*157	*10
28 Jul 2026	30	83	43	6	5	6	66	9
29 Jul 2026	30	83	43	6	5	6	66	9
30 Jul 2026	*33	*55	*71	*8	*6	*8	*30	*9
31 Jul 2026	*33	*55	*71	*8	*6	*8	*30	*9

* Geometric mean calculated using n<5

Table 2.2

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
07 Jul 2026	IC	E	IC	IC	IC	IC	IC	IC
14 Jul 2026	IC	IC	E	IC	IC	IC	E	IC
21 Jul 2026	IC	IC	IC	IC	IC	IC	IC	IC
28 Jul 2026	IC	IC	IC	IC	IC	IC	IC	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 Jul 2026	9	1310	376	9	10	9	692	276
02 Jul 2026	9	1310	376	9	10	9	692	276
03 Jul 2026	9	1310	376	9	10	9	692	276
04 Jul 2026	9	1310	376	9	10	9	692	276
05 Jul 2026	9	1310	376	9	10	9	692	276
06 Jul 2026	9	1310	376	9	10	9	692	276
07 Jul 2026	10	2668	722	9	9	9	1554	173
08 Jul 2026	10	2668	722	9	9	9	1554	173
09 Jul 2026	10	2668	722	9	9	9	1554	173
10 Jul 2026	10	2668	722	9	9	9	1554	173
11 Jul 2026	10	2668	722	9	9	9	1554	173
12 Jul 2026	10	2668	722	9	9	9	1554	173
13 Jul 2026	10	2668	722	9	9	9	1554	173
14 Jul 2026	11	919	536	7	13	9	953	41
15 Jul 2026	11	919	536	7	13	9	953	41
16 Jul 2026	11	919	536	7	13	9	953	41
17 Jul 2026	11	919	536	7	13	9	953	41
18 Jul 2026	11	919	536	7	13	9	953	41
19 Jul 2026	11	919	536	7	13	9	953	41
20 Jul 2026	11	919	536	7	13	9	953	41
21 Jul 2026	11	382	238	6	10	9	437	21
22 Jul 2026	11	382	238	6	10	9	437	21
23 Jul 2026	11	382	238	6	10	9	437	21
24 Jul 2026	11	382	238	6	10	9	437	21
25 Jul 2026	11	382	238	6	10	9	437	21
26 Jul 2026	11	382	238	6	10	9	437	21
27 Jul 2026	11	382	238	6	10	9	437	21
28 Jul 2026	9	176	102	5	10	8	228	15
29 Jul 2026	9	176	102	5	10	8	228	15
30 Jul 2026	9	176	102	5	10	8	228	15
31 Jul 2026	9	176	102	5	10	8	228	15

* 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
July	IC	E	E	IC	IC	IC	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 Jul 2026	20	16000	4000	40	20	80	16000	1200
02 Jul 2026	*20	* 16000	* 2130	*30	*20	*70	* 11800	* 660
03 Jul 2026	*20	* 16000	* 2130	*30	*20	*70	* 11800	* 660
04 Jul 2026	*20	* 16000	* 2130	*30	*20	*70	* 11800	* 660
05 Jul 2026	*20	* 16000	* 2130	*30	*20	*70	* 11800	* 660
06 Jul 2026	*20	* 16000	* 2130	*30	*20	*70	* 11800	* 660
07 Jul 2026	20	16000	4000	20	20	60	16000	280
08 Jul 2026	20	16000	4000	20	20	60	16000	280
09 Jul 2026	*20	* 16000	* 8130	*30	*20	*70	* 16000	* 740
10 Jul 2026	*20	* 16000	* 8130	*30	*20	*70	* 16000	* 740
11 Jul 2026	*20	* 16000	* 8130	*30	*20	*70	* 16000	* 740
12 Jul 2026	*20	* 16000	* 8130	*30	*20	*70	* 16000	* 740
13 Jul 2026	*20	* 16000	* 8130	*30	*20	*70	* 16000	* 740
14 Jul 2026	20	16000	16000	20	20	60	16000	280
15 Jul 2026	20	16000	16000	20	20	60	16000	280
16 Jul 2026	* 160	* 8600	* 8130	*20	*20	*50	* 11800	* 170
17 Jul 2026	* 160	* 8600	* 8130	*20	*20	*50	* 11800	* 170
18 Jul 2026	* 160	* 8600	* 8130	*20	*20	*50	* 11800	* 170
19 Jul 2026	* 160	* 8600	* 8130	*20	*20	*50	* 11800	* 170
20 Jul 2026	* 160	* 8600	* 8130	*20	*20	*50	* 11800	* 170
21 Jul 2026	240	1200	260	20	20	20	7600	60
22 Jul 2026	240	1200	260	20	20	20	7600	60
23 Jul 2026	240	1200	260	20	20	20	7600	60
24 Jul 2026	* 130	* 8600	* 8100	*20	*30	*20	* 11800	*40
25 Jul 2026	* 130	* 8600	* 8100	*20	*30	*20	* 11800	*40
26 Jul 2026	* 130	* 8600	* 8100	*20	*30	*20	* 11800	*40
27 Jul 2026	* 130	* 8600	* 8100	*20	*30	*20	* 11800	*40
28 Jul 2026	20	1200	200	20	40	20	7600	60
29 Jul 2026	20	1200	200	20	40	20	7600	60
30 Jul 2026	* 130	* 670	* 8020	*20	* 120	*20	* 3830	* 170
31 Jul 2026	* 130	* 670	* 8020	*20	* 120	*20	* 3830	* 170

* 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
July	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 total coliform (Total), fecal coliform (Fecal) and *Enterococcus* (Entero) are reported as CFU/100 mL. Comments follow the data summary.

Station	Date	Time	Total	Fecal	Entero
S0	07 Jul 2026	900	2600e	1200e	300e
S0	14 Jul 2026	840	140e	16e	56
S0	21 Jul 2026	945	60e	14e	28e
S0	28 Jul 2026	920	520	38e	92
S10	07 Jul 2026	902	<20	<2	<2
S10	14 Jul 2026	838	20e	12e	14e
S10	21 Jul 2026	941	<20	<20	<2
S10	28 Jul 2026	923	40e	10e	14e
S11	07 Jul 2026	931	>16000	200e	1800e
S11	14 Jul 2026	851	7600	480	640
S11	21 Jul 2026	801	60e	4e	24e
S11	28 Jul 2026	755	20e	2e	32e
S12	07 Jul 2026	822	280e	16e	16e
S12	14 Jul 2026	923	60e	30e	2e
S12	21 Jul 2026	838	20e	2e	2e
S12	28 Jul 2026	841	600e	8e	120e
S2	07 Jul 2026	1010	<2	<2	<2
S2	14 Jul 2026	950	10e	<2	4e
S2	21 Jul 2026	1045	<20	<2	2e
S2	28 Jul 2026	1020	380e	24e	68
S3	07 Jul 2026	940	2e	<2	2e
S3	14 Jul 2026	920	20e	2e	8e
S3	21 Jul 2026	1030	<20	6e	2e
S3	28 Jul 2026	955	20e	<2	2e
S4	07 Jul 2026	923	20e	4e	4e
S4	14 Jul 2026	901	400	300e	30e
S4	21 Jul 2026	1006	240e	80e	2e
S4	28 Jul 2026	942	20e	12e	8e
S5	07 Jul 2026	913	>16000	1600e	10000
S5	14 Jul 2026	832	1200e	160e	20e
S5	21 Jul 2026	741	140e	6e	62
S5	28 Jul 2026	730	20e	6e	34e
S6	07 Jul 2026	841	>16000	200e	2600e
S6	14 Jul 2026	903	>16000	1600e	2000e
S6	21 Jul 2026	814	40e	4e	14e
S6	28 Jul 2026	812	20e	20e	12e
S8	07 Jul 2026	812	<2	<2	<2
S8	14 Jul 2026	749	<20	20e	8e
S8	21 Jul 2026	831	<20	6e	6e
S8	28 Jul 2026	823	40e	<20	<2
S9	07 Jul 2026	750	<20	6e	<2
S9	14 Jul 2026	725	<200	4e	26e
S9	21 Jul 2026	806	40e	4e	<2

Station	Date	Time	Total	Fecal	Entero
S9	28 Jul 2026	801	<200	10e	30e

ns = not sampled

ND = no data

Table 2.8

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

Station	Date	Parameter	Value
S0	07 Jul 2026	Arrive Time	900
S0	07 Jul 2026	Wind Speed (kts)	1
S0	07 Jul 2026	Wind Dir	NE
S0	07 Jul 2026	Animal Life	Bird-10; Dog-2;
S0	07 Jul 2026	Floatables	
S0	07 Jul 2026	Current Direction	N
S0	07 Jul 2026	Water Temp (C)	14
S0	07 Jul 2026	High Tide Time	211
S0	07 Jul 2026	Low Tide Time	833
S0	07 Jul 2026	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-2; 0.5 L/s water flowing from storm drain
S0	14 Jul 2026	Arrive Time	840
S0	14 Jul 2026	Wind Speed (kts)	1
S0	14 Jul 2026	Wind Dir	NE
S0	14 Jul 2026	Animal Life	Bird-10; Dog-2;
S0	14 Jul 2026	Floatables	
S0	14 Jul 2026	Current Direction	N
S0	14 Jul 2026	Water Temp (C)	15
S0	14 Jul 2026	High Tide Time	1031
S0	14 Jul 2026	Low Tide Time	415
S0	14 Jul 2026	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-4; 0.5 L/s water flowing from storm drain
S0	21 Jul 2026	Arrive Time	945
S0	21 Jul 2026	Wind Speed (kts)	1
S0	21 Jul 2026	Wind Dir	NE
S0	21 Jul 2026	Animal Life	Bird-10; Dog-2;
S0	21 Jul 2026	Floatables	
S0	21 Jul 2026	Current Direction	N
S0	21 Jul 2026	Water Temp (C)	16
S0	21 Jul 2026	High Tide Time	314
S0	21 Jul 2026	Low Tide Time	842
S0	21 Jul 2026	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-10; 0.5 L/S water flowing from storm drain
S0	28 Jul 2026	Arrive Time	920
S0	28 Jul 2026	Wind Speed (kts)	1.1
S0	28 Jul 2026	Wind Dir	NE
S0	28 Jul 2026	Animal Life	Bird-10; Dog-1;
S0	28 Jul 2026	Floatables	
S0	28 Jul 2026	Current Direction	NE
S0	28 Jul 2026	Water Temp (C)	14
S0	28 Jul 2026	High Tide Time	1004
S0	28 Jul 2026	Low Tide Time	350
S0	28 Jul 2026	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-4; 0.5 L/s water flowing from storm drain
S2	07 Jul 2026	Arrive Time	1010
S2	07 Jul 2026	Wind Speed (kts)	1.1
S2	07 Jul 2026	Wind Dir	NE
S2	07 Jul 2026	Animal Life	Bird-10; Dog-3;
S2	07 Jul 2026	Floatables	
S2	07 Jul 2026	Current Direction	N
S2	07 Jul 2026	Water Temp (C)	14
S2	07 Jul 2026	High Tide Time	211

Station	Date	Parameter	Value
S2	07 Jul 2026	Low Tide Time	833
S2	07 Jul 2026	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-10; No flow from storm drain
S2	14 Jul 2026	Arrive Time	950
S2	14 Jul 2026	Wind Speed (kts)	1.3
S2	14 Jul 2026	Wind Dir	NE
S2	14 Jul 2026	Animal Life	Bird-10; Dog-6;
S2	14 Jul 2026	Floatables	
S2	14 Jul 2026	Current Direction	N
S2	14 Jul 2026	Water Temp (C)	15
S2	14 Jul 2026	High Tide Time	1031
S2	14 Jul 2026	Low Tide Time	415
S2	14 Jul 2026	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-10; No flow from storm drain
S2	21 Jul 2026	Arrive Time	1045
S2	21 Jul 2026	Wind Speed (kts)	1.3
S2	21 Jul 2026	Wind Dir	NE
S2	21 Jul 2026	Animal Life	Bird-10; Dog-3;
S2	21 Jul 2026	Floatables	
S2	21 Jul 2026	Current Direction	N
S2	21 Jul 2026	Water Temp (C)	16
S2	21 Jul 2026	High Tide Time	314
S2	21 Jul 2026	Low Tide Time	842
S2	21 Jul 2026	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-10; No flow from storm drain
S2	28 Jul 2026	Arrive Time	1020
S2	28 Jul 2026	Wind Speed (kts)	1
S2	28 Jul 2026	Wind Dir	NE
S2	28 Jul 2026	Animal Life	Bird-10; Dog-2;
S2	28 Jul 2026	Floatables	
S2	28 Jul 2026	Current Direction	N
S2	28 Jul 2026	Water Temp (C)	14
S2	28 Jul 2026	High Tide Time	1004
S2	28 Jul 2026	Low Tide Time	350
S2	28 Jul 2026	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-10; No flow from storm drain
S3	07 Jul 2026	Arrive Time	940
S3	07 Jul 2026	Wind Speed (kts)	1
S3	07 Jul 2026	Wind Dir	NE
S3	07 Jul 2026	Animal Life	Bird-10; Dog-4;
S3	07 Jul 2026	Floatables	
S3	07 Jul 2026	Current Direction	N
S3	07 Jul 2026	Water Temp (C)	14
S3	07 Jul 2026	High Tide Time	211
S3	07 Jul 2026	Low Tide Time	833
S3	07 Jul 2026	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-10; No flow from storm drain
S3	14 Jul 2026	Arrive Time	920
S3	14 Jul 2026	Wind Speed (kts)	1.1
S3	14 Jul 2026	Wind Dir	NE
S3	14 Jul 2026	Animal Life	Bird-10; Dog-4;
S3	14 Jul 2026	Floatables	
S3	14 Jul 2026	Current Direction	N
S3	14 Jul 2026	Water Temp (C)	15
S3	14 Jul 2026	High Tide Time	1031
S3	14 Jul 2026	Low Tide Time	415

Station	Date	Parameter	Value
S3	14 Jul 2026	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-10; No flow from storm drain
S3	21 Jul 2026	Arrive Time	1020
S3	21 Jul 2026	Wind Speed (kts)	1.1
S3	21 Jul 2026	Wind Dir	NE
S3	21 Jul 2026	Animal Life	Bird-10; Dog-4;
S3	21 Jul 2026	Floatables	
S3	21 Jul 2026	Current Direction	N
S3	21 Jul 2026	Water Temp (C)	16
S3	21 Jul 2026	High Tide Time	314
S3	21 Jul 2026	Low Tide Time	842
S3	21 Jul 2026	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-10; No flow from storm drain
S3	28 Jul 2026	Arrive Time	955
S3	28 Jul 2026	Wind Speed (kts)	1.3
S3	28 Jul 2026	Wind Dir	NE
S3	28 Jul 2026	Animal Life	Bird-10; Dog-4;
S3	28 Jul 2026	Floatables	
S3	28 Jul 2026	Current Direction	N
S3	28 Jul 2026	Water Temp (C)	14
S3	28 Jul 2026	High Tide Time	1004
S3	28 Jul 2026	Low Tide Time	350
S3	28 Jul 2026	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-10; No flow from storm drain
S4	07 Jul 2026	Arrive Time	923
S4	07 Jul 2026	Wind Speed (kts)	2.9
S4	07 Jul 2026	Wind Dir	SW
S4	07 Jul 2026	Animal Life	Bird-25;
S4	07 Jul 2026	Floatables	
S4	07 Jul 2026	Current Direction	S
S4	07 Jul 2026	Water Temp (C)	14
S4	07 Jul 2026	High Tide Time	211
S4	07 Jul 2026	Low Tide Time	833
S4	07 Jul 2026	Comments	Water clear; Trash-5; Kelp;Seagrass
S4	14 Jul 2026	Arrive Time	901
S4	14 Jul 2026	Wind Speed (kts)	4.3
S4	14 Jul 2026	Wind Dir	N
S4	14 Jul 2026	Animal Life	Bird-40;
S4	14 Jul 2026	Floatables	
S4	14 Jul 2026	Current Direction	S
S4	14 Jul 2026	Water Temp (C)	19
S4	14 Jul 2026	High Tide Time	1031
S4	14 Jul 2026	Low Tide Time	415
S4	14 Jul 2026	Comments	Water clear; Trash-5; Kelp;Seagrass
S4	21 Jul 2026	Arrive Time	1006
S4	21 Jul 2026	Wind Speed (kts)	6.7
S4	21 Jul 2026	Wind Dir	S
S4	21 Jul 2026	Animal Life	
S4	21 Jul 2026	Floatables	
S4	21 Jul 2026	Current Direction	N
S4	21 Jul 2026	Water Temp (C)	19
S4	21 Jul 2026	High Tide Time	314
S4	21 Jul 2026	Low Tide Time	842
S4	21 Jul 2026	Comments	Water clear; Trash-5; Kelp;Seagrass;Debris;Algae
S4	28 Jul 2026	Arrive Time	942

Station	Date	Parameter	Value
S4	28 Jul 2026	Wind Speed (kts)	10.1
S4	28 Jul 2026	Wind Dir	SW
S4	28 Jul 2026	Animal Life	Bird-9;
S4	28 Jul 2026	Floatables	
S4	28 Jul 2026	Current Direction	S
S4	28 Jul 2026	Water Temp (C)	18
S4	28 Jul 2026	High Tide Time	1004
S4	28 Jul 2026	Low Tide Time	350
S4	28 Jul 2026	Comments	Water clear; Trash-4; Kelp;Seagrass; Person/Walker/Jogger-1
S10	07 Jul 2026	Arrive Time	902
S10	07 Jul 2026	Wind Speed (kts)	2.2
S10	07 Jul 2026	Wind Dir	SW
S10	07 Jul 2026	Animal Life	
S10	07 Jul 2026	Floatables	Foam
S10	07 Jul 2026	Current Direction	S
S10	07 Jul 2026	Water Temp (C)	13
S10	07 Jul 2026	High Tide Time	211
S10	07 Jul 2026	Low Tide Time	833
S10	07 Jul 2026	Comments	Water clear; Trash-4; Kelp;Seagrass
S10	14 Jul 2026	Arrive Time	838
S10	14 Jul 2026	Wind Speed (kts)	4.9
S10	14 Jul 2026	Wind Dir	N
S10	14 Jul 2026	Animal Life	
S10	14 Jul 2026	Floatables	
S10	14 Jul 2026	Current Direction	S
S10	14 Jul 2026	Water Temp (C)	19
S10	14 Jul 2026	High Tide Time	1031
S10	14 Jul 2026	Low Tide Time	415
S10	14 Jul 2026	Comments	Water clear; Trash-5; Kelp;Seagrass
S10	21 Jul 2026	Arrive Time	941
S10	21 Jul 2026	Wind Speed (kts)	7.1
S10	21 Jul 2026	Wind Dir	SE
S10	21 Jul 2026	Animal Life	
S10	21 Jul 2026	Floatables	
S10	21 Jul 2026	Current Direction	N
S10	21 Jul 2026	Water Temp (C)	20
S10	21 Jul 2026	High Tide Time	314
S10	21 Jul 2026	Low Tide Time	842
S10	21 Jul 2026	Comments	Water clear; Trash-5; Kelp;Seagrass;Algae;Debris
S10	28 Jul 2026	Arrive Time	923
S10	28 Jul 2026	Wind Speed (kts)	9.8
S10	28 Jul 2026	Wind Dir	SW
S10	28 Jul 2026	Animal Life	
S10	28 Jul 2026	Floatables	
S10	28 Jul 2026	Current Direction	S
S10	28 Jul 2026	Water Temp (C)	18
S10	28 Jul 2026	High Tide Time	1004
S10	28 Jul 2026	Low Tide Time	350
S10	28 Jul 2026	Comments	Water clear; Trash-4; Kelp;Seagrass; Person/Walker/Jogger-1
S5	07 Jul 2026	Arrive Time	913
S5	07 Jul 2026	Wind Speed (kts)	5
S5	07 Jul 2026	Wind Dir	SW
S5	07 Jul 2026	Animal Life	
S5	07 Jul 2026	Floatables	

Station	Date	Parameter	Value
S5	07 Jul 2026	Current Direction	N
S5	07 Jul 2026	Water Temp (C)	11.9
S5	07 Jul 2026	High Tide Time	211
S5	07 Jul 2026	Low Tide Time	833
S5	07 Jul 2026	Comments	Water clear; Trash-4; Seagrass;Kelp;Algae;Debris; Sewage-like odor
S5	14 Jul 2026	Arrive Time	832
S5	14 Jul 2026	Wind Speed (kts)	6.1
S5	14 Jul 2026	Wind Dir	NW
S5	14 Jul 2026	Animal Life	Pelican-50;
S5	14 Jul 2026	Floatables	
S5	14 Jul 2026	Current Direction	S
S5	14 Jul 2026	Water Temp (C)	19.8
S5	14 Jul 2026	High Tide Time	1031
S5	14 Jul 2026	Low Tide Time	415
S5	14 Jul 2026	Comments	Water clear; Trash-3; Kelp;Seagrass;Debris
S5	21 Jul 2026	Arrive Time	741
S5	21 Jul 2026	Wind Speed (kts)	0.6
S5	21 Jul 2026	Wind Dir	NW
S5	21 Jul 2026	Animal Life	
S5	21 Jul 2026	Floatables	Foam
S5	21 Jul 2026	Current Direction	S
S5	21 Jul 2026	Water Temp (C)	18.8
S5	21 Jul 2026	High Tide Time	314
S5	21 Jul 2026	Low Tide Time	842
S5	21 Jul 2026	Comments	Water clear; Trash-3; Kelp;Seagrass; Person/Walker/Jogger-2; Sewage-like odor
S5	28 Jul 2026	Arrive Time	730
S5	28 Jul 2026	Wind Speed (kts)	3
S5	28 Jul 2026	Wind Dir	SW
S5	28 Jul 2026	Animal Life	Bird-20;
S5	28 Jul 2026	Floatables	
S5	28 Jul 2026	Current Direction	S
S5	28 Jul 2026	Water Temp (C)	19.6
S5	28 Jul 2026	High Tide Time	1004
S5	28 Jul 2026	Low Tide Time	350
S5	28 Jul 2026	Comments	Water clear; Trash-4; Kelp;Seagrass; Person/Walker/Jogger-2
S11	07 Jul 2026	Arrive Time	931
S11	07 Jul 2026	Wind Speed (kts)	3.7
S11	07 Jul 2026	Wind Dir	SW
S11	07 Jul 2026	Animal Life	
S11	07 Jul 2026	Floatables	
S11	07 Jul 2026	Current Direction	N
S11	07 Jul 2026	Water Temp (C)	15.1
S11	07 Jul 2026	High Tide Time	211
S11	07 Jul 2026	Low Tide Time	833
S11	07 Jul 2026	Comments	Water clear; Trash-4; Seagrass;Kelp;Algae;Debris; Sewage-like odor
S11	14 Jul 2026	Arrive Time	851
S11	14 Jul 2026	Wind Speed (kts)	7
S11	14 Jul 2026	Wind Dir	NW
S11	14 Jul 2026	Animal Life	Bird-5;
S11	14 Jul 2026	Floatables	
S11	14 Jul 2026	Current Direction	S
S11	14 Jul 2026	Water Temp (C)	19.8

Station	Date	Parameter	Value
S11	14 Jul 2026	High Tide Time	1031
S11	14 Jul 2026	Low Tide Time	415
S11	14 Jul 2026	Comments	Water clear; Trash-3; Kelp;Seagrass; Person/Walker/Jogger-1
S11	21 Jul 2026	Arrive Time	801
S11	21 Jul 2026	Wind Speed (kts)	0.4
S11	21 Jul 2026	Wind Dir	NW
S11	21 Jul 2026	Animal Life	Bird-8;
S11	21 Jul 2026	Floatables	Foam
S11	21 Jul 2026	Current Direction	S
S11	21 Jul 2026	Water Temp (C)	20.2
S11	21 Jul 2026	High Tide Time	314
S11	21 Jul 2026	Low Tide Time	842
S11	21 Jul 2026	Comments	Water clear; Trash-3; Kelp;Seagrass; Person/Walker/Jogger-4; Sewage-like odor
S11	28 Jul 2026	Arrive Time	755
S11	28 Jul 2026	Wind Speed (kts)	3
S11	28 Jul 2026	Wind Dir	W
S11	28 Jul 2026	Animal Life	Bird-15;
S11	28 Jul 2026	Floatables	Foam
S11	28 Jul 2026	Current Direction	S
S11	28 Jul 2026	Water Temp (C)	19.8
S11	28 Jul 2026	High Tide Time	1004
S11	28 Jul 2026	Low Tide Time	350
S11	28 Jul 2026	Comments	Water clear; Trash-3; Kelp;Seagrass; Person/Walker/Jogger-2
S6	07 Jul 2026	Arrive Time	841
S6	07 Jul 2026	Wind Speed (kts)	4
S6	07 Jul 2026	Wind Dir	W
S6	07 Jul 2026	Animal Life	
S6	07 Jul 2026	Floatables	
S6	07 Jul 2026	Current Direction	N
S6	07 Jul 2026	Water Temp (C)	15.7
S6	07 Jul 2026	High Tide Time	211
S6	07 Jul 2026	Low Tide Time	833
S6	07 Jul 2026	Comments	Water clear; Trash-3; Kelp;Seagrass;Algae;Debris; Person/Walker/Jogger-5; Sewage-like odor
S6	14 Jul 2026	Arrive Time	903
S6	14 Jul 2026	Wind Speed (kts)	5.7
S6	14 Jul 2026	Wind Dir	NW
S6	14 Jul 2026	Animal Life	Dog-2;
S6	14 Jul 2026	Floatables	Foam
S6	14 Jul 2026	Current Direction	S
S6	14 Jul 2026	Water Temp (C)	19.8
S6	14 Jul 2026	High Tide Time	1031
S6	14 Jul 2026	Low Tide Time	415
S6	14 Jul 2026	Comments	Water clear; Trash-3; Kelp;Seagrass; Person/Walker/Jogger-3
S6	21 Jul 2026	Arrive Time	814
S6	21 Jul 2026	Wind Speed (kts)	2.4
S6	21 Jul 2026	Wind Dir	NW
S6	21 Jul 2026	Animal Life	Bird-12;
S6	21 Jul 2026	Floatables	Foam
S6	21 Jul 2026	Current Direction	S
S6	21 Jul 2026	Water Temp (C)	19.7
S6	21 Jul 2026	High Tide Time	314

Station	Date	Parameter	Value
S6	21 Jul 2026	Low Tide Time	842
S6	21 Jul 2026	Comments	Water clear; Surfer/Paddle boarder-2; Trash-2; Kelp;Sea-grass; Person/Walker/Jogger-3
S6	28 Jul 2026	Arrive Time	812
S6	28 Jul 2026	Wind Speed (kts)	2.6
S6	28 Jul 2026	Wind Dir	SW
S6	28 Jul 2026	Animal Life	Bird-2;
S6	28 Jul 2026	Floatables	
S6	28 Jul 2026	Current Direction	S
S6	28 Jul 2026	Water Temp (C)	19.2
S6	28 Jul 2026	High Tide Time	1004
S6	28 Jul 2026	Low Tide Time	350
S6	28 Jul 2026	Comments	Water clear; Surfer/Paddle boarder-5; Trash-2; Kelp;Sea-grass;Algae
S12	07 Jul 2026	Arrive Time	822
S12	07 Jul 2026	Wind Speed (kts)	2
S12	07 Jul 2026	Wind Dir	W
S12	07 Jul 2026	Animal Life	Bird-9;
S12	07 Jul 2026	Floatables	
S12	07 Jul 2026	Current Direction	N
S12	07 Jul 2026	Water Temp (C)	14.9
S12	07 Jul 2026	High Tide Time	211
S12	07 Jul 2026	Low Tide Time	833
S12	07 Jul 2026	Comments	Water clear; Trash-3; Kelp;Seagrass;Algae;Debris; Per-son/Walker/Jogger-2; Sewage-like odor
S12	14 Jul 2026	Arrive Time	923
S12	14 Jul 2026	Wind Speed (kts)	8.3
S12	14 Jul 2026	Wind Dir	NW
S12	14 Jul 2026	Animal Life	Bird-9; Dog-18;
S12	14 Jul 2026	Floatables	
S12	14 Jul 2026	Current Direction	S
S12	14 Jul 2026	Water Temp (C)	20.1
S12	14 Jul 2026	High Tide Time	1031
S12	14 Jul 2026	Low Tide Time	415
S12	14 Jul 2026	Comments	Water clear; Trash-3; Kelp;Seagrass; Person/Walker/Jogger-8
S12	21 Jul 2026	Arrive Time	838
S12	21 Jul 2026	Wind Speed (kts)	2.6
S12	21 Jul 2026	Wind Dir	NW
S12	21 Jul 2026	Animal Life	Bird-6;
S12	21 Jul 2026	Floatables	Foam
S12	21 Jul 2026	Current Direction	S
S12	21 Jul 2026	Water Temp (C)	20.8
S12	21 Jul 2026	High Tide Time	314
S12	21 Jul 2026	Low Tide Time	842
S12	21 Jul 2026	Comments	Water clear; Trash-3; Kelp;Seagrass; Person/Walker/Jogger-4
S12	28 Jul 2026	Arrive Time	841
S12	28 Jul 2026	Wind Speed (kts)	6.4
S12	28 Jul 2026	Wind Dir	SW
S12	28 Jul 2026	Animal Life	Bird-14;
S12	28 Jul 2026	Floatables	
S12	28 Jul 2026	Current Direction	S
S12	28 Jul 2026	Water Temp (C)	20.1
S12	28 Jul 2026	High Tide Time	1004
S12	28 Jul 2026	Low Tide Time	350

Station	Date	Parameter	Value
S12	28 Jul 2026	Comments	Water clear; Trash-2; Kelp;Seagrass; Person/Walker/Jogger-3
S8	07 Jul 2026	Arrive Time	812
S8	07 Jul 2026	Wind Speed (kts)	0.7
S8	07 Jul 2026	Wind Dir	SW
S8	07 Jul 2026	Animal Life	
S8	07 Jul 2026	Floatables	Foam
S8	07 Jul 2026	Current Direction	S
S8	07 Jul 2026	Water Temp (C)	12
S8	07 Jul 2026	High Tide Time	211
S8	07 Jul 2026	Low Tide Time	833
S8	07 Jul 2026	Comments	Water clear; Trash-2; Kelp;Seagrass; Person/Walker/Jogger-4
S8	14 Jul 2026	Arrive Time	749
S8	14 Jul 2026	Wind Speed (kts)	1.9
S8	14 Jul 2026	Wind Dir	N
S8	14 Jul 2026	Animal Life	
S8	14 Jul 2026	Floatables	
S8	14 Jul 2026	Current Direction	S
S8	14 Jul 2026	Water Temp (C)	12
S8	14 Jul 2026	High Tide Time	1031
S8	14 Jul 2026	Low Tide Time	415
S8	14 Jul 2026	Comments	Water clear; Trash-2; Kelp;Seagrass; Person/Walker/Jogger-1; -1
S8	21 Jul 2026	Arrive Time	831
S8	21 Jul 2026	Wind Speed (kts)	3
S8	21 Jul 2026	Wind Dir	W
S8	21 Jul 2026	Animal Life	
S8	21 Jul 2026	Floatables	
S8	21 Jul 2026	Current Direction	N
S8	21 Jul 2026	Water Temp (C)	16
S8	21 Jul 2026	High Tide Time	314
S8	21 Jul 2026	Low Tide Time	842
S8	21 Jul 2026	Comments	Water clear; Trash-4; Kelp;Seagrass;Algae;Debris
S8	28 Jul 2026	Arrive Time	823
S8	28 Jul 2026	Wind Speed (kts)	5.1
S8	28 Jul 2026	Wind Dir	SW
S8	28 Jul 2026	Animal Life	Bird-8;
S8	28 Jul 2026	Floatables	
S8	28 Jul 2026	Current Direction	S
S8	28 Jul 2026	Water Temp (C)	20
S8	28 Jul 2026	High Tide Time	1004
S8	28 Jul 2026	Low Tide Time	350
S8	28 Jul 2026	Comments	Water clear; Trash-2; Kelp;Seagrass; Person/Walker/Jogger-2
S9	07 Jul 2026	Arrive Time	750
S9	07 Jul 2026	Wind Speed (kts)	0.2
S9	07 Jul 2026	Wind Dir	SW
S9	07 Jul 2026	Animal Life	Bird-6;
S9	07 Jul 2026	Floatables	Foam
S9	07 Jul 2026	Current Direction	S
S9	07 Jul 2026	Water Temp (C)	15
S9	07 Jul 2026	High Tide Time	211
S9	07 Jul 2026	Low Tide Time	833
S9	07 Jul 2026	Comments	Water clear; Trash-3; Kelp;Seagrass; Person/Walker/Jogger-6

Station	Date	Parameter	Value
S9	14 Jul 2026	Arrive Time	725
S9	14 Jul 2026	Wind Speed (kts)	0.1
S9	14 Jul 2026	Wind Dir	N
S9	14 Jul 2026	Animal Life	
S9	14 Jul 2026	Floatables	
S9	14 Jul 2026	Current Direction	S
S9	14 Jul 2026	Water Temp (C)	15
S9	14 Jul 2026	High Tide Time	1031
S9	14 Jul 2026	Low Tide Time	415
S9	14 Jul 2026	Comments	Water turbid; Trash-2; Kelp;Seagrass; Person/Walker/Jogger-11
S9	21 Jul 2026	Arrive Time	806
S9	21 Jul 2026	Wind Speed (kts)	2.2
S9	21 Jul 2026	Wind Dir	SW
S9	21 Jul 2026	Animal Life	Bird-6;
S9	21 Jul 2026	Floatables	
S9	21 Jul 2026	Current Direction	N
S9	21 Jul 2026	Water Temp (C)	11
S9	21 Jul 2026	High Tide Time	314
S9	21 Jul 2026	Low Tide Time	842
S9	21 Jul 2026	Comments	Water clear; Trash-3; Kelp;Seagrass;Debris; Person/Walker/Jogger-5
S9	28 Jul 2026	Arrive Time	801
S9	28 Jul 2026	Wind Speed (kts)	3.7
S9	28 Jul 2026	Wind Dir	SW
S9	28 Jul 2026	Animal Life	Bird-12; Dog-1;
S9	28 Jul 2026	Floatables	
S9	28 Jul 2026	Current Direction	S
S9	28 Jul 2026	Water Temp (C)	20
S9	28 Jul 2026	High Tide Time	1004
S9	28 Jul 2026	Low Tide Time	350
S9	28 Jul 2026	Comments	Water clear; Trash-2; Kelp;Seagrass; Person/Walker/Jogger-13

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Kelp Stations

Table 3.1

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

Date	I19	I24	I25	I26	I32	I39	I40
01 Jul 2026	7	5	6	6	10	3	5
02 Jul 2026	*7	*6	*4	*4	*2	*3	*4
03 Jul 2026	*7	*6	*4	*4	*2	*3	*4
04 Jul 2026	*7	*6	*4	*4	*2	*3	*4
05 Jul 2026	*7	*6	*4	*4	*2	*3	*4
06 Jul 2026	5	5	4	4	2	3	3
07 Jul 2026	5	5	4	4	2	3	3
08 Jul 2026	5	5	4	4	2	3	3
09 Jul 2026	*7	*5	*4	*4	*2	*2	*4
10 Jul 2026	*7	*5	*4	*4	*2	*2	*4
11 Jul 2026	*7	*5	*4	*4	*2	*2	*4
12 Jul 2026	*7	*5	*4	*4	*2	*2	*4
13 Jul 2026	*7	*5	*4	*4	*2	*2	*4
14 Jul 2026	*7	*5	*4	*4	*2	*2	*4
15 Jul 2026	*7	*5	*4	*4	*2	*2	*4
16 Jul 2026	*6	*5	*4	*4	*2	*2	*4
17 Jul 2026	*6	*5	*4	*4	*2	*2	*4
18 Jul 2026	*6	*5	*4	*4	*2	*2	*4
19 Jul 2026	*6	*5	*4	*4	*2	*2	*4
20 Jul 2026	5	4	4	4	2	2	3
21 Jul 2026	5	4	4	4	2	2	3
22 Jul 2026	5	4	4	4	2	2	3
23 Jul 2026	5	4	4	4	2	2	3
24 Jul 2026	*3	*2	*2	*2	*2	*2	*2
25 Jul 2026	*3	*2	*2	*2	*2	*2	*2
26 Jul 2026	*3	*2	*2	*2	*2	*2	*2
27 Jul 2026	*3	*2	*2	*2	*2	*2	*2
28 Jul 2026	*3	*2	*2	*2	*2	*2	*2
29 Jul 2026	*2	*2	*2	*2	*2	*2	*2
30 Jul 2026	*5	*2	*2	*2	*2	*2	*4
31 Jul 2026	*5	*2	*2	*2	*2	*2	*4

* 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 Jul 2026	IC	IC	IC	IC	IC	IC	IC
16 Jul 2026	IC	IC	IC	IC	IC	IC	IC
20 Jul 2026	IC	IC	IC	IC	IC	IC	IC
30 Jul 2026	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 Jul 2026	8	5	4	5	16	4	7
02 Jul 2026	8	5	4	5	16	4	7
03 Jul 2026	8	5	4	5	16	4	7
04 Jul 2026	8	5	4	5	16	4	7
05 Jul 2026	8	5	4	5	16	4	7
06 Jul 2026	6	5	4	4	12	6	6
07 Jul 2026	8	5	4	5	16	5	6
08 Jul 2026	8	5	4	5	16	5	6
09 Jul 2026	8	5	4	5	16	5	6
10 Jul 2026	8	5	4	5	16	5	6
11 Jul 2026	8	5	4	5	16	5	6
12 Jul 2026	8	5	4	5	16	5	6
13 Jul 2026	8	5	4	5	16	5	6
14 Jul 2026	10	6	4	4	6	6	6
15 Jul 2026	10	6	4	4	6	6	6
16 Jul 2026	8	5	3	4	5	5	5
17 Jul 2026	8	5	3	4	5	5	5
18 Jul 2026	8	5	3	4	5	5	5
19 Jul 2026	8	5	3	4	5	5	5
20 Jul 2026	6	4	3	3	5	4	5
21 Jul 2026	7	4	3	4	4	4	5
22 Jul 2026	7	4	3	4	4	4	5
23 Jul 2026	7	4	3	4	4	4	5
24 Jul 2026	7	4	3	4	4	4	5
25 Jul 2026	7	4	3	4	4	4	5
26 Jul 2026	7	4	3	4	4	4	5
27 Jul 2026	7	4	3	4	4	4	5
28 Jul 2026	6	4	4	4	4	4	4
29 Jul 2026	6	4	4	4	4	4	4
30 Jul 2026	9	3	3	4	4	4	6
31 Jul 2026	9	3	3	4	4	4	6

* 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
July	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.

Date	I19			I24			I25			I26			I32			I39			I40		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
01 Jul 2026	10	80	60	20	20	20	2	20	*11	2	2	20	46	20	12	2	2	2	4	60	20
02 Jul 2026	*35	*70	*250	*11	*2	*20	*2	*11	*11	*2	*2	*14	*33	*14	*8	*2	*2	*4	*3	*40	*20
03 Jul 2026	*35	*70	*250	*11	*2	*20	*2	*11	*11	*2	*2	*14	*33	*14	*8	*2	*2	*4	*3	*40	*20
04 Jul 2026	*35	*70	*250	*11	*2	*20	*2	*11	*11	*2	*2	*14	*33	*14	*8	*2	*2	*4	*3	*40	*20
05 Jul 2026	*35	*70	*250	*11	*2	*20	*2	*11	*11	*2	*2	*14	*33	*14	*8	*2	*2	*4	*3	*40	*20
06 Jul 2026	10	60	20	2	2	20	2	2	2	2	2	8	20	8	4	2	2	6	4	20	20
07 Jul 2026	10	60	20	2	2	20	2	2	2	2	2	8	20	8	4	2	2	6	4	20	20
08 Jul 2026	10	60	20	2	2	20	2	2	2	2	2	8	20	8	4	2	2	6	4	20	20
09 Jul 2026	*31	*70	*242	*11	*2	*13	*2	*2	*11	*2	*2	*5	*24	*5	*3	*2	*3	*4	*3	*13	*20
10 Jul 2026	*31	*70	*242	*11	*2	*13	*2	*2	*11	*2	*2	*5	*24	*5	*3	*2	*3	*4	*3	*13	*20
11 Jul 2026	*31	*70	*242	*11	*2	*13	*2	*2	*11	*2	*2	*5	*24	*5	*3	*2	*3	*4	*3	*13	*20
12 Jul 2026	*31	*70	*242	*11	*2	*13	*2	*2	*11	*2	*2	*5	*24	*5	*3	*2	*3	*4	*3	*13	*20
13 Jul 2026	*31	*70	*242	*11	*2	*13	*2	*2	*11	*2	*2	*5	*24	*5	*3	*2	*3	*4	*3	*13	*20
14 Jul 2026	*31	*70	*242	*11	*2	*13	*2	*2	*11	*2	*2	*5	*24	*5	*3	*2	*3	*4	*3	*13	*20
15 Jul 2026	*31	*70	*242	*11	*2	*13	*2	*2	*11	*2	*2	*5	*24	*5	*3	*2	*3	*4	*3	*13	*20
16 Jul 2026	*2	*31	*245	*2	*2	*4	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*14	*11	*2	*4	*11
17 Jul 2026	*2	*31	*245	*2	*2	*4	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*14	*11	*2	*4	*11
18 Jul 2026	*2	*31	*245	*2	*2	*4	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*14	*11	*2	*4	*11
19 Jul 2026	*2	*31	*245	*2	*2	*4	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*14	*11	*2	*4	*11
20 Jul 2026	2	2	10	2	2	2	2	2	2	2	2	2	2	2	2	2	4	6	2	2	2
21 Jul 2026	2	2	10	2	2	2	2	2	2	2	2	2	2	2	2	2	4	6	2	2	2
22 Jul 2026	2	2	10	2	2	2	2	2	2	2	2	2	2	2	2	2	4	6	2	2	2
23 Jul 2026	2	2	10	2	2	2	2	2	2	2	2	2	2	2	2	2	4	6	2	2	2
24 Jul 2026	*2	*2	*7	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*3	*11	*2	*2	*2
25 Jul 2026	*2	*2	*7	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*3	*11	*2	*2	*2
26 Jul 2026	*2	*2	*7	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*3	*11	*2	*2	*2
27 Jul 2026	*2	*2	*7	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*3	*11	*2	*2	*2
28 Jul 2026	*2	*2	*7	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*3	*11	*2	*2	*2
29 Jul 2026	*2	*2	*4	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*4	*16	*2	*2	*2
30 Jul 2026	*2	*2	*7	*2	*2	*2	*2	*2	*2	*2	*2	*2	*11	*2	*2	*2	*5	*9	*11	*2	*2
31 Jul 2026	*2	*2	*7	*2	*2	*2	*2	*2	*3	*2	*2	*2	*11	*2	*2	*2	*5	*9	*11	*2	*2

* 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
July	IC	E	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	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. Comments follow the data summary.

Station	Date	Time	Depth	Total	Fecal	Entero
I19	06 Jul 2026	1101	2	<2	<2	<2
I19	06 Jul 2026	1101	6	<2	<2	<2
I19	06 Jul 2026	1101	11	<2	<2	2e
I19	16 Jul 2026	1112	2	<2	2e	<2
I19	16 Jul 2026	1112	6	2e	<2	<2
I19	16 Jul 2026	1112	11	10e	2e	2e
I19	20 Jul 2026	1133	2	2e	<2	<2
I19	20 Jul 2026	1133	6	<2	<2	<2
I19	20 Jul 2026	1133	11	4e	<2	<2
I19	30 Jul 2026	1048	2	<20	2e	10e
I19	30 Jul 2026	1048	6	1200e	200e	180e
I19	30 Jul 2026	1048	11	<200	38e	24e
I24	06 Jul 2026	1122	2	<2	<2	<2
I24	06 Jul 2026	1122	6	2e	<2	<2
I24	06 Jul 2026	1122	11	<2	<2	<2
I24	16 Jul 2026	1136	2	<2	<2	<2
I24	16 Jul 2026	1136	6	<2	<2	<2
I24	16 Jul 2026	1136	11	<2	<2	<2
I24	20 Jul 2026	1153	2	<2	<2	<2
I24	20 Jul 2026	1153	6	<2	<2	<2
I24	20 Jul 2026	1153	11	<2	<2	<2
I24	30 Jul 2026	1111	2	<2	<2	<2
I24	30 Jul 2026	1111	6	120e	2e	2e
I24	30 Jul 2026	1111	11	40e	2e	<2
I25	06 Jul 2026	1130	2	<2	<2	<2
I25	06 Jul 2026	1130	6	<2	<2	<2
I25	06 Jul 2026	1130	9	<2	<2	<2
I25	16 Jul 2026	1144	2	<2	<2	<2
I25	16 Jul 2026	1144	6	<2	<2	<2
I25	16 Jul 2026	1144	9	<2	<2	2e
I25	20 Jul 2026	1201	2	<2	<2	<2
I25	20 Jul 2026	1201	6	2e	<2	<2
I25	20 Jul 2026	1201	9	4e	<2	<2
I25	30 Jul 2026	1118	2	20e	<2	<2
I25	30 Jul 2026	1118	6	20e	4e	<2
I25	30 Jul 2026	1118	9	40e	4e	2e
I26	06 Jul 2026	1140	2	<2	<2	<2
I26	06 Jul 2026	1140	6	<2	<2	<2
I26	06 Jul 2026	1140	9	<2	<2	<2
I26	16 Jul 2026	1154	2	<2	<2	<2
I26	16 Jul 2026	1154	6	<2	<2	<2

Station	Date	Time	Depth	Total	Fecal	Entero
I26	16 Jul 2026	1154	9	4e	<2	<2
I26	20 Jul 2026	1210	2	2e	<2	<2
I26	20 Jul 2026	1210	6	<2	<2	<2
I26	20 Jul 2026	1210	9	<2	2e	<2
I26	30 Jul 2026	1129	2	<20	<2	<2
I26	30 Jul 2026	1129	6	<20	4e	<2
I26	30 Jul 2026	1129	9	140e	8e	2e
I32	06 Jul 2026	1153	2	<2	<2	<2
I32	06 Jul 2026	1153	6	<2	<2	<2
I32	06 Jul 2026	1153	9	<2	<2	2e
I32	16 Jul 2026	1206	2	2e	<2	<2
I32	16 Jul 2026	1206	6	2e	<2	<2
I32	16 Jul 2026	1206	9	<2	<2	<2
I32	20 Jul 2026	1224	2	<20	<2	<2
I32	20 Jul 2026	1224	6	2e	<2	<2
I32	20 Jul 2026	1224	9	<2	<2	<2
I32	30 Jul 2026	1142	2	<200	<2	2e
I32	30 Jul 2026	1142	6	<200	4e	8e
I32	30 Jul 2026	1142	9	<20	2e	2e
I39	06 Jul 2026	1039	2	<2	<2	<2
I39	06 Jul 2026	1039	12	4e	<2	94
I39	06 Jul 2026	1039	18	<20	<2	12e
I39	16 Jul 2026	1044	2	<2	<2	<2
I39	16 Jul 2026	1044	12	24e	4e	2e
I39	16 Jul 2026	1044	18	16e	2e	<2
I39	20 Jul 2026	1041	2	<2	<2	<2
I39	20 Jul 2026	1041	12	<2	<2	<2
I39	20 Jul 2026	1041	18	<2	<2	<2
I39	30 Jul 2026	1026	2	<2	<2	<2
I39	30 Jul 2026	1026	12	6e	2e	2e
I39	30 Jul 2026	1026	18	<2	<2	<2
I40	06 Jul 2026	1113	2	<20	2e	6e
I40	06 Jul 2026	1113	6	<2	<2	2e
I40	06 Jul 2026	1113	9	2e	<2	<2
I40	16 Jul 2026	1127	2	<2	<2	<2
I40	16 Jul 2026	1127	6	<2	<2	<2
I40	16 Jul 2026	1127	9	<2	<2	2e
I40	20 Jul 2026	1145	2	<2	<2	<2
I40	20 Jul 2026	1145	6	<2	<2	<2
I40	20 Jul 2026	1145	9	<2	<2	<2
I40	30 Jul 2026	1101	2	40e	2e	2e
I40	30 Jul 2026	1101	6	<20	<20	<20
I40	30 Jul 2026	1101	9	800e	80e	68

ns = not sampled

ND = no data

Table 3.8

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

Station	Date	Parameter	Value
I19	06 Jul 2026	Arrive Time	1101
I19	06 Jul 2026	Depart Time	1105
I19	06 Jul 2026	Air Temp (C)	21.2
I19	06 Jul 2026	Visibility (mi)	10
I19	06 Jul 2026	Wind Speed (kts)	4.8
I19	06 Jul 2026	Wind Dir	NW
I19	06 Jul 2026	Sea State	Light Chop
I19	06 Jul 2026	High Tide Time	1448
I19	06 Jul 2026	Low Tide Time	748
I19	06 Jul 2026	Comments	
I19	16 Jul 2026	Arrive Time	1112
I19	16 Jul 2026	Depart Time	1118
I19	16 Jul 2026	Air Temp (C)	21.7
I19	16 Jul 2026	Visibility (mi)	9
I19	16 Jul 2026	Wind Speed (kts)	7.1
I19	16 Jul 2026	Wind Dir	SW
I19	16 Jul 2026	Sea State	Rough
I19	16 Jul 2026	High Tide Time	2312
I19	16 Jul 2026	Low Tide Time	530
I19	16 Jul 2026	Comments	
I19	20 Jul 2026	Arrive Time	1133
I19	20 Jul 2026	Depart Time	1138
I19	20 Jul 2026	Air Temp (C)	25
I19	20 Jul 2026	Visibility (mi)	10
I19	20 Jul 2026	Wind Speed (kts)	2.6
I19	20 Jul 2026	Wind Dir	W
I19	20 Jul 2026	Sea State	Regular Swell
I19	20 Jul 2026	High Tide Time	1454
I19	20 Jul 2026	Low Tide Time	754
I19	20 Jul 2026	Comments	
I19	30 Jul 2026	Arrive Time	1048
I19	30 Jul 2026	Depart Time	1054
I19	30 Jul 2026	Air Temp (C)	20.9
I19	30 Jul 2026	Visibility (mi)	10
I19	30 Jul 2026	Wind Speed (kts)	1.5
I19	30 Jul 2026	Wind Dir	S
I19	30 Jul 2026	Sea State	Calm
I19	30 Jul 2026	High Tide Time	2200
I19	30 Jul 2026	Low Tide Time	436
I19	30 Jul 2026	Comments	
I40	06 Jul 2026	Arrive Time	1113
I40	06 Jul 2026	Depart Time	1117
I40	06 Jul 2026	Air Temp (C)	20.6
I40	06 Jul 2026	Visibility (mi)	10
I40	06 Jul 2026	Wind Speed (kts)	6.4
I40	06 Jul 2026	Wind Dir	NW
I40	06 Jul 2026	Sea State	Light Chop
I40	06 Jul 2026	High Tide Time	1448
I40	06 Jul 2026	Low Tide Time	748
I40	06 Jul 2026	Comments	
I40	16 Jul 2026	Arrive Time	1127

Station	Date	Parameter	Value
I40	16 Jul 2026	Depart Time	1132
I40	16 Jul 2026	Air Temp (C)	21.9
I40	16 Jul 2026	Visibility (mi)	9
I40	16 Jul 2026	Wind Speed (kts)	8.3
I40	16 Jul 2026	Wind Dir	SW
I40	16 Jul 2026	Sea State	Rough
I40	16 Jul 2026	High Tide Time	2312
I40	16 Jul 2026	Low Tide Time	530
I40	16 Jul 2026	Comments	
I40	20 Jul 2026	Arrive Time	1145
I40	20 Jul 2026	Depart Time	1150
I40	20 Jul 2026	Air Temp (C)	24
I40	20 Jul 2026	Visibility (mi)	10
I40	20 Jul 2026	Wind Speed (kts)	2.7
I40	20 Jul 2026	Wind Dir	W
I40	20 Jul 2026	Sea State	Regular Swell
I40	20 Jul 2026	High Tide Time	1454
I40	20 Jul 2026	Low Tide Time	754
I40	20 Jul 2026	Comments	
I40	30 Jul 2026	Arrive Time	1101
I40	30 Jul 2026	Depart Time	1105
I40	30 Jul 2026	Air Temp (C)	20.9
I40	30 Jul 2026	Visibility (mi)	10
I40	30 Jul 2026	Wind Speed (kts)	6.1
I40	30 Jul 2026	Wind Dir	S
I40	30 Jul 2026	Sea State	Calm
I40	30 Jul 2026	High Tide Time	2200
I40	30 Jul 2026	Low Tide Time	436
I40	30 Jul 2026	Comments	
I24	06 Jul 2026	Arrive Time	1122
I24	06 Jul 2026	Depart Time	1127
I24	06 Jul 2026	Air Temp (C)	20.8
I24	06 Jul 2026	Visibility (mi)	10
I24	06 Jul 2026	Wind Speed (kts)	6.4
I24	06 Jul 2026	Wind Dir	NW
I24	06 Jul 2026	Sea State	Light Chop
I24	06 Jul 2026	High Tide Time	1448
I24	06 Jul 2026	Low Tide Time	748
I24	06 Jul 2026	Comments	
I24	16 Jul 2026	Arrive Time	1136
I24	16 Jul 2026	Depart Time	1140
I24	16 Jul 2026	Air Temp (C)	21.8
I24	16 Jul 2026	Visibility (mi)	9
I24	16 Jul 2026	Wind Speed (kts)	8
I24	16 Jul 2026	Wind Dir	SW
I24	16 Jul 2026	Sea State	Rough
I24	16 Jul 2026	High Tide Time	2312
I24	16 Jul 2026	Low Tide Time	530
I24	16 Jul 2026	Comments	
I24	20 Jul 2026	Arrive Time	1153
I24	20 Jul 2026	Depart Time	1158
I24	20 Jul 2026	Air Temp (C)	25
I24	20 Jul 2026	Visibility (mi)	10
I24	20 Jul 2026	Wind Speed (kts)	1.4
I24	20 Jul 2026	Wind Dir	NW
I24	20 Jul 2026	Sea State	Regular Swell

Station	Date	Parameter	Value
I24	20 Jul 2026	High Tide Time	1454
I24	20 Jul 2026	Low Tide Time	754
I24	20 Jul 2026	Comments	
I24	30 Jul 2026	Arrive Time	1111
I24	30 Jul 2026	Depart Time	1116
I24	30 Jul 2026	Air Temp (C)	21
I24	30 Jul 2026	Visibility (mi)	10
I24	30 Jul 2026	Wind Speed (kts)	4.9
I24	30 Jul 2026	Wind Dir	SW
I24	30 Jul 2026	Sea State	Calm
I24	30 Jul 2026	High Tide Time	2200
I24	30 Jul 2026	Low Tide Time	436
I24	30 Jul 2026	Comments	
I25	06 Jul 2026	Arrive Time	1130
I25	06 Jul 2026	Depart Time	1133
I25	06 Jul 2026	Air Temp (C)	20.8
I25	06 Jul 2026	Visibility (mi)	10
I25	06 Jul 2026	Wind Speed (kts)	6.4
I25	06 Jul 2026	Wind Dir	NW
I25	06 Jul 2026	Sea State	Light Chop
I25	06 Jul 2026	High Tide Time	1448
I25	06 Jul 2026	Low Tide Time	748
I25	06 Jul 2026	Comments	
I25	16 Jul 2026	Arrive Time	1144
I25	16 Jul 2026	Depart Time	1148
I25	16 Jul 2026	Air Temp (C)	22
I25	16 Jul 2026	Visibility (mi)	9
I25	16 Jul 2026	Wind Speed (kts)	8.3
I25	16 Jul 2026	Wind Dir	SW
I25	16 Jul 2026	Sea State	Rough
I25	16 Jul 2026	High Tide Time	2312
I25	16 Jul 2026	Low Tide Time	530
I25	16 Jul 2026	Comments	
I25	20 Jul 2026	Arrive Time	1201
I25	20 Jul 2026	Depart Time	1206
I25	20 Jul 2026	Air Temp (C)	25.8
I25	20 Jul 2026	Visibility (mi)	10
I25	20 Jul 2026	Wind Speed (kts)	1.7
I25	20 Jul 2026	Wind Dir	W
I25	20 Jul 2026	Sea State	Regular Swell
I25	20 Jul 2026	High Tide Time	1454
I25	20 Jul 2026	Low Tide Time	754
I25	20 Jul 2026	Comments	
I25	30 Jul 2026	Arrive Time	1118
I25	30 Jul 2026	Depart Time	1124
I25	30 Jul 2026	Air Temp (C)	20.9
I25	30 Jul 2026	Visibility (mi)	10
I25	30 Jul 2026	Wind Speed (kts)	14.4
I25	30 Jul 2026	Wind Dir	S
I25	30 Jul 2026	Sea State	Calm
I25	30 Jul 2026	High Tide Time	2200
I25	30 Jul 2026	Low Tide Time	436
I25	30 Jul 2026	Comments	
I39	06 Jul 2026	Arrive Time	1039
I39	06 Jul 2026	Depart Time	1044

Station	Date	Parameter	Value
I39	06 Jul 2026	Air Temp (C)	21.8
I39	06 Jul 2026	Visibility (mi)	10
I39	06 Jul 2026	Wind Speed (kts)	4.4
I39	06 Jul 2026	Wind Dir	NW
I39	06 Jul 2026	Sea State	Light Chop
I39	06 Jul 2026	High Tide Time	1448
I39	06 Jul 2026	Low Tide Time	748
I39	06 Jul 2026	Comments	
I39	16 Jul 2026	Arrive Time	1044
I39	16 Jul 2026	Depart Time	1111
I39	16 Jul 2026	Air Temp (C)	21.6
I39	16 Jul 2026	Visibility (mi)	6
I39	16 Jul 2026	Wind Speed (kts)	8.5
I39	16 Jul 2026	Wind Dir	SW
I39	16 Jul 2026	Sea State	Rough
I39	16 Jul 2026	High Tide Time	2312
I39	16 Jul 2026	Low Tide Time	530
I39	16 Jul 2026	Comments	
I39	20 Jul 2026	Arrive Time	1041
I39	20 Jul 2026	Depart Time	1051
I39	20 Jul 2026	Air Temp (C)	24
I39	20 Jul 2026	Visibility (mi)	10
I39	20 Jul 2026	Wind Speed (kts)	4.2
I39	20 Jul 2026	Wind Dir	NW
I39	20 Jul 2026	Sea State	Regular Swell
I39	20 Jul 2026	High Tide Time	1454
I39	20 Jul 2026	Low Tide Time	754
I39	20 Jul 2026	Comments	
I39	30 Jul 2026	Arrive Time	1026
I39	30 Jul 2026	Depart Time	1033
I39	30 Jul 2026	Air Temp (C)	20.7
I39	30 Jul 2026	Visibility (mi)	10
I39	30 Jul 2026	Wind Speed (kts)	4.6
I39	30 Jul 2026	Wind Dir	SW
I39	30 Jul 2026	Sea State	Calm
I39	30 Jul 2026	High Tide Time	2200
I39	30 Jul 2026	Low Tide Time	436
I39	30 Jul 2026	Comments	Kelp Debris
I26	06 Jul 2026	Arrive Time	1140
I26	06 Jul 2026	Depart Time	1144
I26	06 Jul 2026	Air Temp (C)	20.8
I26	06 Jul 2026	Visibility (mi)	10
I26	06 Jul 2026	Wind Speed (kts)	5.2
I26	06 Jul 2026	Wind Dir	NW
I26	06 Jul 2026	Sea State	Light Chop
I26	06 Jul 2026	High Tide Time	1448
I26	06 Jul 2026	Low Tide Time	748
I26	06 Jul 2026	Comments	
I26	16 Jul 2026	Arrive Time	1154
I26	16 Jul 2026	Depart Time	1158
I26	16 Jul 2026	Air Temp (C)	22.1
I26	16 Jul 2026	Visibility (mi)	9
I26	16 Jul 2026	Wind Speed (kts)	7.8
I26	16 Jul 2026	Wind Dir	S
I26	16 Jul 2026	Sea State	Rough
I26	16 Jul 2026	High Tide Time	2312

Station	Date	Parameter	Value
I26	16 Jul 2026	Low Tide Time	530
I26	16 Jul 2026	Comments	
I26	20 Jul 2026	Arrive Time	1210
I26	20 Jul 2026	Depart Time	1215
I26	20 Jul 2026	Air Temp (C)	27.1
I26	20 Jul 2026	Visibility (mi)	10
I26	20 Jul 2026	Wind Speed (kts)	2
I26	20 Jul 2026	Wind Dir	W
I26	20 Jul 2026	Sea State	Regular Swell
I26	20 Jul 2026	High Tide Time	1454
I26	20 Jul 2026	Low Tide Time	754
I26	20 Jul 2026	Comments	
I26	30 Jul 2026	Arrive Time	1129
I26	30 Jul 2026	Depart Time	1137
I26	30 Jul 2026	Air Temp (C)	21
I26	30 Jul 2026	Visibility (mi)	10
I26	30 Jul 2026	Wind Speed (kts)	7.1
I26	30 Jul 2026	Wind Dir	S
I26	30 Jul 2026	Sea State	Calm
I26	30 Jul 2026	High Tide Time	2200
I26	30 Jul 2026	Low Tide Time	436
I26	30 Jul 2026	Comments	
I32	06 Jul 2026	Arrive Time	1153
I32	06 Jul 2026	Depart Time	1159
I32	06 Jul 2026	Air Temp (C)	20.8
I32	06 Jul 2026	Visibility (mi)	10
I32	06 Jul 2026	Wind Speed (kts)	6.5
I32	06 Jul 2026	Wind Dir	NW
I32	06 Jul 2026	Sea State	Light Chop
I32	06 Jul 2026	High Tide Time	1448
I32	06 Jul 2026	Low Tide Time	748
I32	06 Jul 2026	Comments	
I32	16 Jul 2026	Arrive Time	1206
I32	16 Jul 2026	Depart Time	1211
I32	16 Jul 2026	Air Temp (C)	22.4
I32	16 Jul 2026	Visibility (mi)	9
I32	16 Jul 2026	Wind Speed (kts)	7.6
I32	16 Jul 2026	Wind Dir	SW
I32	16 Jul 2026	Sea State	Rough
I32	16 Jul 2026	High Tide Time	2312
I32	16 Jul 2026	Low Tide Time	530
I32	16 Jul 2026	Comments	
I32	20 Jul 2026	Arrive Time	1224
I32	20 Jul 2026	Depart Time	1229
I32	20 Jul 2026	Air Temp (C)	26.4
I32	20 Jul 2026	Visibility (mi)	10
I32	20 Jul 2026	Wind Speed (kts)	1.9
I32	20 Jul 2026	Wind Dir	W
I32	20 Jul 2026	Sea State	Regular Swell
I32	20 Jul 2026	High Tide Time	1454
I32	20 Jul 2026	Low Tide Time	754
I32	20 Jul 2026	Comments	
I32	30 Jul 2026	Arrive Time	1142
I32	30 Jul 2026	Depart Time	1149
I32	30 Jul 2026	Air Temp (C)	20.9

Station	Date	Parameter	Value
I32	30 Jul 2026	Visibility (mi)	10
I32	30 Jul 2026	Wind Speed (kts)	5.9
I32	30 Jul 2026	Wind Dir	S
I32	30 Jul 2026	Sea State	Calm
I32	30 Jul 2026	High Tide Time	2200
I32	30 Jul 2026	Low Tide Time	436
I32	30 Jul 2026	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 (σ-t)	Chlor (µg/L)
I19	06 Jul 2026	1	16.56	85.37	8.4	33.33	8.1	24.3	0.69
I19	06 Jul 2026	2	16.42	85.66	8.5	33.33	8.1	24.4	0.71
I19	06 Jul 2026	3	16.16	85.82	8.5	33.33	8.1	24.4	0.71
I19	06 Jul 2026	4	15.98	85.83	8.6	33.33	8.1	24.5	0.80
I19	06 Jul 2026	5	15.79	85.69	8.5	33.32	8.1	24.5	0.96
I19	06 Jul 2026	6	15.59	84.05	8.2	33.32	8.1	24.5	1.27
I19	06 Jul 2026	7	15.45	80.83	8.1	33.32	8.1	24.6	1.57
I19	06 Jul 2026	8	15.18	77.69	8.0	33.33	8.1	24.6	2.08
I19	06 Jul 2026	9	14.50	73.13	7.9	33.34	8.1	24.8	3.35
I19	06 Jul 2026	10	14.16	65.25	7.9	33.34	8.1	24.9	5.53
I19	16 Jul 2026	1	19.69	69.56	8.6	33.33	8.3	23.6	0.38
I19	16 Jul 2026	2	19.69	71.60	8.7	33.35	8.3	23.6	0.42
I19	16 Jul 2026	3	19.68	87.19	8.6	33.40	8.3	23.6	0.45
I19	16 Jul 2026	4	19.66	89.55	8.6	33.40	8.3	23.6	0.48
I19	16 Jul 2026	5	19.63	89.53	8.7	33.40	8.3	23.6	0.60
I19	16 Jul 2026	6	19.60	89.66	8.7	33.40	8.3	23.6	0.65
I19	16 Jul 2026	7	19.58	89.37	8.7	33.40	8.3	23.7	0.75
I19	16 Jul 2026	8	19.57	88.89	8.7	33.40	8.3	23.7	0.85
I19	16 Jul 2026	9	19.52	88.71	8.7	33.40	8.3	23.7	0.93
I19	16 Jul 2026	10	19.46	88.25	8.7	33.40	8.3	23.7	1.15
I19	20 Jul 2026	1	22.43	81.20	7.6	33.43	8.2	22.9	1.05
I19	20 Jul 2026	2	22.02	80.94	7.6	33.44	8.2	23.0	1.04
I19	20 Jul 2026	3	21.34	80.65	7.7	33.45	8.2	23.2	1.07
I19	20 Jul 2026	4	20.58	80.89	7.7	33.43	8.2	23.4	1.24
I19	20 Jul 2026	5	20.37	80.67	7.8	33.41	8.2	23.5	1.46
I19	20 Jul 2026	6	20.04	81.06	7.9	33.41	8.2	23.5	1.51
I19	20 Jul 2026	7	19.82	82.45	7.9	33.40	8.2	23.6	1.67
I19	20 Jul 2026	8	19.42	81.06	7.8	33.39	8.2	23.7	2.52
I19	20 Jul 2026	9	18.97	76.83	7.8	33.39	8.2	23.8	3.86
I19	20 Jul 2026	10	18.51	77.03	8.1	33.38	8.2	23.9	2.71
I19	30 Jul 2026	1	22.92	92.35	7.3	33.51	8.1	22.8	0.53
I19	30 Jul 2026	2	22.76	92.06	7.3	33.50	8.1	22.9	0.61
I19	30 Jul 2026	3	22.44	90.57	7.4	33.47	8.1	22.9	0.87
I19	30 Jul 2026	4	22.10	85.76	7.6	33.42	8.1	23.0	1.55
I19	30 Jul 2026	5	21.89	77.11	7.6	33.40	8.1	23.0	2.45
I19	30 Jul 2026	6	21.28	73.28	7.6	33.40	8.1	23.2	3.35
I19	30 Jul 2026	7	20.54	69.62	7.5	33.40	8.1	23.4	3.93
I19	30 Jul 2026	8	18.97	67.27	7.9	33.39	8.1	23.8	4.12
I19	30 Jul 2026	9	18.19	71.54	8.1	33.35	8.1	24.0	3.83
I19	30 Jul 2026	10	18.09	75.56	8.0	33.34	8.1	24.0	3.40
I40	06 Jul 2026	1	16.68	78.43	8.1	33.17	8.1	24.2	0.85
I40	06 Jul 2026	2	16.57	77.79	8.1	33.19	8.1	24.2	0.86
I40	06 Jul 2026	3	16.04	79.13	8.4	33.28	8.1	24.4	1.10
I40	06 Jul 2026	4	15.72	81.57	8.5	33.31	8.1	24.5	1.21
I40	06 Jul 2026	5	15.44	82.05	8.6	33.30	8.1	24.6	1.37
I40	06 Jul 2026	6	15.35	80.37	8.5	33.30	8.1	24.6	1.66
I40	06 Jul 2026	7	14.76	80.00	8.5	33.33	8.1	24.7	1.76
I40	06 Jul 2026	8	14.53	76.34	8.6	33.32	8.1	24.8	3.31
I40	06 Jul 2026	9	14.27	66.19	8.4	33.33	8.1	24.8	10.49
I40	06 Jul 2026	10	14.19	70.61	8.0	33.32	8.1	24.9	9.58
I40	16 Jul 2026	1	19.86	85.65	8.7	33.41	8.3	23.6	0.38
I40	16 Jul 2026	2	19.85	84.48	8.7	33.40	8.3	23.6	0.42
I40	16 Jul 2026	3	19.82	89.31	8.7	33.40	8.3	23.6	0.43
I40	16 Jul 2026	4	19.80	89.94	8.8	33.40	8.3	23.6	0.46
I40	16 Jul 2026	5	19.80	89.98	8.7	33.40	8.3	23.6	0.48
I40	16 Jul 2026	6	19.78	90.01	8.7	33.40	8.3	23.6	0.50
I40	16 Jul 2026	7	19.75	90.03	8.8	33.40	8.3	23.6	0.57
I40	16 Jul 2026	8	19.67	89.71	8.8	33.40	8.3	23.6	0.64
I40	16 Jul 2026	9	19.65	89.62	8.9	33.40	8.3	23.6	0.75
I40	16 Jul 2026	10	19.56	89.32	8.8	33.40	8.3	23.7	0.82
I40	20 Jul 2026	1	23.16	75.56	7.6	33.44	8.2	22.7	1.41
I40	20 Jul 2026	2	22.99	73.61	7.5	33.44	8.2	22.8	1.55

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I40	20 Jul 2026	3	22.48	74.73	7.6	33.45	8.2	22.9	1.66
I40	20 Jul 2026	4	21.65	77.58	7.8	33.45	8.2	23.1	1.44
I40	20 Jul 2026	5	21.30	83.87	8.0	33.44	8.2	23.2	1.16
I40	20 Jul 2026	6	21.05	86.68	8.0	33.42	8.2	23.3	1.20
I40	20 Jul 2026	7	20.68	87.81	8.0	33.42	8.2	23.4	1.19
I40	20 Jul 2026	8	20.53	87.74	7.9	33.41	8.2	23.4	1.41
I40	20 Jul 2026	9	19.73	82.79	7.8	33.40	8.2	23.6	1.88
I40	20 Jul 2026	10	18.94	78.06	7.9	33.38	8.2	23.8	2.08
I40	30 Jul 2026	1	22.72	77.47	7.8	33.43	8.1	22.8	1.52
I40	30 Jul 2026	2	22.52	77.49	7.7	33.44	8.1	22.9	1.50
I40	30 Jul 2026	3	21.95	74.01	7.6	33.42	8.1	23.0	1.99
I40	30 Jul 2026	4	21.83	69.64	7.6	33.40	8.1	23.1	2.73
I40	30 Jul 2026	5	21.71	67.63	7.6	33.40	8.1	23.1	3.44
I40	30 Jul 2026	6	21.62	67.06	7.7	33.39	8.1	23.1	3.69
I40	30 Jul 2026	7	21.47	66.67	7.7	33.39	8.1	23.1	3.81
I40	30 Jul 2026	8	20.39	67.44	7.7	33.41	8.1	23.4	3.88
I40	30 Jul 2026	9	18.45	69.78	7.9	33.42	8.1	24.0	4.41
I40	30 Jul 2026	10	17.60	64.11	8.0	33.35	8.0	24.1	4.15
I24	06 Jul 2026	1	17.69	85.39	8.1	33.30	8.1	24.0	0.55
I24	06 Jul 2026	2	17.55	85.79	8.2	33.37	8.1	24.1	0.56
I24	06 Jul 2026	3	16.78	85.42	8.2	33.38	8.1	24.3	0.60
I24	06 Jul 2026	4	16.55	83.71	8.1	33.35	8.1	24.4	0.71
I24	06 Jul 2026	5	15.70	83.24	8.2	33.36	8.1	24.6	0.76
I24	06 Jul 2026	6	15.16	83.27	8.4	33.33	8.1	24.6	1.03
I24	06 Jul 2026	7	15.10	83.14	8.3	33.32	8.1	24.7	1.32
I24	06 Jul 2026	8	14.82	82.64	7.9	33.33	8.1	24.7	1.62
I24	06 Jul 2026	9	14.29	81.12	7.8	33.34	8.1	24.8	2.15
I24	06 Jul 2026	10	14.25	80.97	7.9	33.33	8.1	24.8	1.49
I24	16 Jul 2026	1	20.87	91.99	8.1	33.43	8.3	23.3	0.27
I24	16 Jul 2026	2	20.84	92.23	8.1	33.44	8.3	23.3	0.27
I24	16 Jul 2026	3	20.56	92.35	8.3	33.43	8.3	23.4	0.30
I24	16 Jul 2026	4	20.38	92.12	8.4	33.43	8.3	23.5	0.34
I24	16 Jul 2026	5	20.18	91.70	8.6	33.42	8.3	23.5	0.39
I24	16 Jul 2026	6	20.15	91.46	8.6	33.41	8.3	23.5	0.46
I24	16 Jul 2026	7	20.06	91.17	8.5	33.41	8.3	23.5	0.52
I24	16 Jul 2026	8	19.98	90.74	8.6	33.41	8.3	23.6	0.58
I24	16 Jul 2026	9	19.87	90.42	8.7	33.41	8.3	23.6	0.67
I24	16 Jul 2026	10	19.77	89.72	8.7	33.40	8.3	23.6	0.77
I24	16 Jul 2026	11	18.72	88.52	8.9	33.40	8.3	23.9	1.04
I24	20 Jul 2026	1	23.28	75.48	7.6	33.43	8.3	22.7	1.33
I24	20 Jul 2026	2	22.93	75.41	7.6	33.45	8.3	22.8	1.40
I24	20 Jul 2026	3	22.61	75.79	7.6	33.44	8.2	22.9	1.54
I24	20 Jul 2026	4	22.48	77.12	7.6	33.45	8.2	22.9	1.74
I24	20 Jul 2026	5	21.82	78.93	7.7	33.46	8.2	23.1	1.50
I24	20 Jul 2026	6	21.65	84.25	7.9	33.44	8.2	23.1	1.26
I24	20 Jul 2026	7	21.52	86.03	7.8	33.44	8.2	23.2	1.31
I24	20 Jul 2026	8	21.03	86.67	7.7	33.44	8.2	23.3	1.43
I24	20 Jul 2026	9	19.48	85.85	8.1	33.46	8.2	23.7	2.02
I24	20 Jul 2026	10	18.99	83.86	8.5	33.41	8.2	23.8	1.60
I24	30 Jul 2026	1	22.94	88.75	7.5	33.48	8.1	22.8	0.74
I24	30 Jul 2026	2	22.97	89.05	7.5	33.48	8.1	22.8	0.76
I24	30 Jul 2026	3	22.39	89.27	7.6	33.45	8.1	22.9	0.83
I24	30 Jul 2026	4	21.50	85.60	8.0	33.41	8.1	23.1	1.96
I24	30 Jul 2026	5	20.85	77.62	8.1	33.39	8.1	23.3	2.65
I24	30 Jul 2026	6	20.09	73.90	8.0	33.40	8.1	23.5	3.50
I24	30 Jul 2026	7	18.42	71.98	8.1	33.37	8.1	23.9	4.24
I24	30 Jul 2026	8	17.12	78.93	8.6	33.35	8.1	24.2	2.08
I24	30 Jul 2026	9	16.80	87.81	8.4	33.32	8.1	24.3	2.29
I24	30 Jul 2026	10	16.53	79.96	8.2	33.31	8.0	24.3	4.11
I25	06 Jul 2026	1	18.04	87.31	8.1	33.37	8.2	24.0	0.46
I25	06 Jul 2026	2	17.62	87.31	8.1	33.38	8.2	24.1	0.46
I25	06 Jul 2026	3	16.41	87.21	8.5	33.34	8.1	24.4	0.53
I25	06 Jul 2026	4	16.02	86.64	8.6	33.34	8.1	24.5	0.69
I25	06 Jul 2026	5	15.94	86.11	8.7	33.32	8.1	24.5	0.90
I25	06 Jul 2026	6	15.75	85.58	8.5	33.32	8.1	24.5	1.08
I25	06 Jul 2026	7	15.12	80.40	8.2	33.33	8.1	24.7	2.59
I25	06 Jul 2026	8	14.73	76.33	8.0	33.33	8.1	24.7	4.13
I25	06 Jul 2026	9	14.51	83.89	8.0	33.30	8.1	24.8	2.29

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I25	16 Jul 2026	1	20.89	82.59	8.2	33.41	8.3	23.3	0.14
I25	16 Jul 2026	2	20.88	89.58	8.2	33.44	8.3	23.3	0.19
I25	16 Jul 2026	3	20.86	90.43	8.2	33.44	8.3	23.3	0.27
I25	16 Jul 2026	4	20.76	91.57	8.2	33.44	8.3	23.4	0.29
I25	16 Jul 2026	5	20.59	92.44	8.3	33.43	8.3	23.4	0.32
I25	16 Jul 2026	6	20.23	92.18	8.4	33.42	8.3	23.5	0.38
I25	16 Jul 2026	7	19.87	91.82	8.5	33.41	8.3	23.6	0.46
I25	16 Jul 2026	8	19.31	91.01	8.8	33.40	8.3	23.7	0.57
I25	16 Jul 2026	9	18.97	88.88	9.0	33.40	8.3	23.8	0.86
I25	20 Jul 2026	1	22.92	83.24	7.6	33.44	8.3	22.8	0.81
I25	20 Jul 2026	2	22.95	83.24	7.6	33.45	8.3	22.8	0.83
I25	20 Jul 2026	3	22.88	83.30	7.6	33.45	8.3	22.8	0.88
I25	20 Jul 2026	4	22.86	83.34	7.6	33.45	8.3	22.8	1.03
I25	20 Jul 2026	5	22.50	82.95	7.6	33.45	8.3	22.9	1.20
I25	20 Jul 2026	6	21.92	82.26	7.7	33.46	8.2	23.1	1.17
I25	20 Jul 2026	7	21.68	83.59	7.7	33.44	8.2	23.1	1.01
I25	20 Jul 2026	8	20.62	84.79	7.8	33.45	8.2	23.4	1.11
I25	20 Jul 2026	9	17.87	85.10	8.6	33.42	8.2	24.1	1.48
I25	30 Jul 2026	1	23.02	87.06	7.6	33.48	8.1	22.8	0.77
I25	30 Jul 2026	2	22.89	86.79	7.7	33.48	8.1	22.8	0.85
I25	30 Jul 2026	3	22.04	86.96	8.0	33.42	8.1	23.0	1.58
I25	30 Jul 2026	4	21.45	81.40	8.2	33.42	8.1	23.2	2.25
I25	30 Jul 2026	5	20.95	75.71	8.3	33.41	8.1	23.3	2.23
I25	30 Jul 2026	6	20.67	79.22	8.2	33.39	8.1	23.4	2.27
I25	30 Jul 2026	7	20.03	79.39	8.1	33.40	8.1	23.5	3.33
I25	30 Jul 2026	8	18.35	74.85	8.1	33.39	8.1	24.0	4.20
I25	30 Jul 2026	9	16.88	71.83	8.3	33.34	8.0	24.3	3.21
I39	06 Jul 2026	1	19.08	82.82	8.0	33.43	8.2	23.8	0.47
I39	06 Jul 2026	2	19.08	84.41	8.0	33.43	8.2	23.8	0.46
I39	06 Jul 2026	3	18.88	87.12	8.0	33.44	8.2	23.9	0.50
I39	06 Jul 2026	4	18.36	87.25	8.1	33.44	8.2	24.0	0.65
I39	06 Jul 2026	5	17.99	86.80	8.2	33.43	8.2	24.1	0.94
I39	06 Jul 2026	6	17.49	86.79	8.1	33.40	8.2	24.2	1.27
I39	06 Jul 2026	7	16.93	86.89	8.2	33.38	8.2	24.3	1.57
I39	06 Jul 2026	8	16.57	87.19	8.1	33.38	8.1	24.4	1.75
I39	06 Jul 2026	9	14.92	88.26	8.2	33.35	8.1	24.7	1.81
I39	06 Jul 2026	10	14.62	90.16	8.3	33.28	8.1	24.7	2.03
I39	06 Jul 2026	11	14.29	90.15	8.3	33.28	8.1	24.8	2.35
I39	06 Jul 2026	12	14.18	89.27	8.2	33.28	8.1	24.8	3.91
I39	06 Jul 2026	13	14.10	85.74	8.1	33.30	8.1	24.9	6.12
I39	06 Jul 2026	14	13.96	87.85	7.8	33.33	8.1	24.9	5.29
I39	06 Jul 2026	15	13.55	91.14	7.2	33.37	8.0	25.0	3.40
I39	06 Jul 2026	16	13.53	93.48	6.9	33.37	8.0	25.0	1.41
I39	06 Jul 2026	17	13.50	93.98	6.8	33.37	8.0	25.0	1.26
I39	06 Jul 2026	18	13.48	94.08	6.8	33.37	8.0	25.0	1.13
I39	16 Jul 2026	1	21.26	91.22	8.2	33.45	8.3	23.2	0.30
I39	16 Jul 2026	2	21.26	90.97	8.2	33.45	8.3	23.2	0.31
I39	16 Jul 2026	3	21.23	91.04	8.2	33.45	8.3	23.3	0.31
I39	16 Jul 2026	4	21.06	91.43	8.1	33.45	8.3	23.3	0.34
I39	16 Jul 2026	5	20.08	92.17	8.3	33.42	8.3	23.5	0.37
I39	16 Jul 2026	6	19.69	93.32	8.6	33.42	8.3	23.6	0.36
I39	16 Jul 2026	7	19.55	93.45	8.8	33.41	8.3	23.7	0.39
I39	16 Jul 2026	8	19.48	93.10	8.8	33.40	8.3	23.7	0.45
I39	16 Jul 2026	9	19.38	92.70	8.7	33.41	8.3	23.7	0.53
I39	16 Jul 2026	10	19.18	92.15	8.8	33.41	8.3	23.8	0.80
I39	16 Jul 2026	11	18.94	90.50	8.9	33.40	8.3	23.8	1.06
I39	16 Jul 2026	12	18.30	89.66	9.0	33.39	8.3	24.0	1.33
I39	16 Jul 2026	13	17.91	89.27	9.1	33.38	8.3	24.1	1.70
I39	16 Jul 2026	14	17.89	89.94	9.1	33.37	8.2	24.1	1.82
I39	16 Jul 2026	15	17.25	90.54	8.9	33.36	8.2	24.2	1.89
I39	16 Jul 2026	16	16.35	89.80	8.8	33.36	8.2	24.4	2.51
I39	16 Jul 2026	17	16.11	89.18	8.8	33.34	8.2	24.4	3.14
I39	16 Jul 2026	18	15.96	89.85	8.6	33.33	8.2	24.5	3.08
I39	20 Jul 2026	1	23.27	80.72	8.2	33.46	8.3	22.7	0.84
I39	20 Jul 2026	2	23.14	80.67	8.1	33.46	8.3	22.7	0.90
I39	20 Jul 2026	3	22.80	81.14	8.0	33.47	8.3	22.8	1.05
I39	20 Jul 2026	4	22.65	84.01	7.9	33.46	8.3	22.9	0.77
I39	20 Jul 2026	5	22.61	86.65	7.8	33.46	8.3	22.9	0.78

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I39	20 Jul 2026	6	22.55	87.18	7.8	33.46	8.3	22.9	0.81
I39	20 Jul 2026	7	22.52	87.67	7.7	33.45	8.3	22.9	0.84
I39	20 Jul 2026	8	22.45	88.28	7.6	33.45	8.3	22.9	0.78
I39	20 Jul 2026	9	22.41	89.39	7.6	33.45	8.2	22.9	0.71
I39	20 Jul 2026	10	22.40	89.77	7.6	33.45	8.2	22.9	0.70
I39	20 Jul 2026	11	22.35	90.34	7.6	33.45	8.2	22.9	0.72
I39	20 Jul 2026	12	22.31	90.31	7.6	33.45	8.2	23.0	0.74
I39	20 Jul 2026	13	22.29	89.77	7.7	33.45	8.2	23.0	0.76
I39	20 Jul 2026	14	22.05	89.73	7.7	33.44	8.2	23.0	0.81
I39	20 Jul 2026	15	21.50	90.30	7.9	33.44	8.2	23.2	0.76
I39	20 Jul 2026	16	21.17	91.33	8.0	33.44	8.2	23.3	0.71
I39	20 Jul 2026	17	20.83	91.86	7.9	33.42	8.2	23.3	0.74
I39	20 Jul 2026	18	17.89	92.21	8.5	33.39	8.2	24.1	0.95
I39	30 Jul 2026	1	22.92	95.60	7.2	33.52	8.1	22.8	0.27
I39	30 Jul 2026	2	22.84	95.59	7.2	33.52	8.1	22.9	0.28
I39	30 Jul 2026	3	22.78	95.48	7.2	33.51	8.1	22.9	0.31
I39	30 Jul 2026	4	22.74	95.25	7.2	33.51	8.1	22.9	0.34
I39	30 Jul 2026	5	22.55	95.28	7.2	33.52	8.1	22.9	0.36
I39	30 Jul 2026	6	21.12	95.24	7.8	33.48	8.1	23.3	0.45
I39	30 Jul 2026	7	20.15	91.33	8.1	33.41	8.1	23.5	1.28
I39	30 Jul 2026	8	19.52	83.88	8.3	33.39	8.1	23.7	2.55
I39	30 Jul 2026	9	18.79	80.53	8.2	33.40	8.1	23.9	2.19
I39	30 Jul 2026	10	17.20	83.72	8.5	33.40	8.1	24.2	1.39
I39	30 Jul 2026	11	16.61	88.35	8.5	33.34	8.1	24.3	0.79
I39	30 Jul 2026	12	16.27	90.14	8.5	33.31	8.0	24.4	1.11
I39	30 Jul 2026	13	16.17	87.96	8.6	33.31	8.1	24.4	1.18
I39	30 Jul 2026	14	15.89	88.52	8.5	33.31	8.1	24.5	1.22
I39	30 Jul 2026	15	15.27	89.47	8.4	33.31	8.0	24.6	1.47
I39	30 Jul 2026	16	15.15	88.85	8.1	33.29	8.0	24.6	1.82
I39	30 Jul 2026	17	15.14	87.08	8.1	33.29	8.0	24.6	1.14
I39	30 Jul 2026	18	15.12	86.99	8.1	33.29	8.0	24.6	0.94
I26	06 Jul 2026	1	18.19	85.60	8.1	33.37	8.2	24.0	0.57
I26	06 Jul 2026	2	17.89	85.27	8.1	33.38	8.2	24.1	0.58
I26	06 Jul 2026	3	16.93	86.59	8.2	33.36	8.1	24.3	0.65
I26	06 Jul 2026	4	15.60	86.56	8.4	33.35	8.1	24.6	0.83
I26	06 Jul 2026	5	14.69	85.56	8.6	33.32	8.1	24.7	1.14
I26	06 Jul 2026	6	14.61	81.98	8.6	33.31	8.1	24.8	2.15
I26	06 Jul 2026	7	14.52	70.60	8.4	33.31	8.1	24.8	6.06
I26	06 Jul 2026	8	14.47	69.13	8.2	33.31	8.1	24.8	8.69
I26	06 Jul 2026	9	14.45	78.30	8.0	33.31	8.1	24.8	5.20
I26	16 Jul 2026	1	20.99	92.09	8.1	33.44	8.3	23.3	0.27
I26	16 Jul 2026	2	20.99	91.78	8.2	33.44	8.3	23.3	0.26
I26	16 Jul 2026	3	20.99	91.96	8.2	33.44	8.3	23.3	0.26
I26	16 Jul 2026	4	20.99	92.43	8.1	33.44	8.3	23.3	0.27
I26	16 Jul 2026	5	20.91	92.61	8.1	33.44	8.3	23.3	0.27
I26	16 Jul 2026	6	20.87	92.47	8.2	33.44	8.3	23.3	0.34
I26	16 Jul 2026	7	20.71	92.16	8.2	33.43	8.3	23.4	0.37
I26	16 Jul 2026	8	20.07	91.97	8.5	33.41	8.3	23.5	0.50
I26	16 Jul 2026	9	19.82	89.79	8.8	33.40	8.3	23.6	0.69
I26	20 Jul 2026	1	22.50	83.83	7.6	33.44	8.2	22.9	0.60
I26	20 Jul 2026	2	21.98	83.45	7.7	33.45	8.2	23.0	0.62
I26	20 Jul 2026	3	21.41	83.08	7.8	33.44	8.2	23.2	0.61
I26	20 Jul 2026	4	20.58	83.90	8.0	33.42	8.2	23.4	0.56
I26	20 Jul 2026	5	20.29	86.20	8.2	33.41	8.2	23.5	0.49
I26	20 Jul 2026	6	20.22	88.15	8.2	33.41	8.2	23.5	0.45
I26	20 Jul 2026	7	20.00	89.87	8.2	33.41	8.2	23.5	0.48
I26	20 Jul 2026	8	18.64	91.22	8.5	33.41	8.2	23.9	0.59
I26	20 Jul 2026	9	17.54	91.69	8.9	33.37	8.2	24.1	1.01
I26	30 Jul 2026	1	22.91	81.60	7.9	33.45	8.1	22.8	1.21
I26	30 Jul 2026	2	22.81	81.34	7.9	33.45	8.1	22.8	1.25
I26	30 Jul 2026	3	22.56	80.49	7.9	33.44	8.1	22.9	1.69
I26	30 Jul 2026	4	22.52	78.35	7.9	33.43	8.1	22.9	2.33
I26	30 Jul 2026	5	22.49	76.06	7.8	33.43	8.1	22.9	3.01
I26	30 Jul 2026	6	22.47	74.34	7.8	33.43	8.1	22.9	3.44
I26	30 Jul 2026	7	22.42	73.71	7.7	33.43	8.1	22.9	3.54
I26	30 Jul 2026	8	22.09	71.02	7.3	33.44	8.1	23.0	4.39
I26	30 Jul 2026	9	19.44	66.96	7.2	33.44	8.1	23.7	5.53
I32	06 Jul 2026	1	17.04	84.83	8.2	33.33	8.1	24.2	0.63

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I32	06 Jul 2026	2	17.07	84.81	8.2	33.33	8.1	24.2	0.61
I32	06 Jul 2026	3	16.89	84.70	8.1	33.34	8.1	24.3	0.62
I32	06 Jul 2026	4	16.71	84.53	8.1	33.34	8.1	24.3	0.68
I32	06 Jul 2026	5	16.00	83.72	8.0	33.36	8.1	24.5	0.77
I32	06 Jul 2026	6	14.94	82.02	8.1	33.36	8.1	24.7	0.92
I32	06 Jul 2026	7	14.81	80.84	8.2	33.34	8.1	24.7	1.24
I32	06 Jul 2026	8	14.49	80.82	8.1	33.33	8.1	24.8	1.62
I32	06 Jul 2026	9	14.30	78.50	8.1	33.30	8.1	24.8	3.44
I32	06 Jul 2026	10	14.25	76.65	8.2	33.31	8.1	24.8	5.93
I32	16 Jul 2026	1	20.31	87.68	8.6	33.41	8.3	23.5	0.54
I32	16 Jul 2026	2	20.32	87.83	8.6	33.41	8.3	23.5	0.52
I32	16 Jul 2026	3	20.31	87.85	8.5	33.41	8.3	23.5	0.53
I32	16 Jul 2026	4	20.31	87.91	8.6	33.41	8.3	23.5	0.54
I32	16 Jul 2026	5	20.30	87.76	8.6	33.41	8.3	23.5	0.59
I32	16 Jul 2026	6	20.29	87.95	8.6	33.41	8.3	23.5	0.70
I32	16 Jul 2026	7	20.25	87.74	8.6	33.41	8.3	23.5	0.80
I32	16 Jul 2026	8	20.13	87.67	8.7	33.41	8.3	23.5	0.98
I32	16 Jul 2026	9	20.06	86.07	8.7	33.41	8.3	23.5	1.52
I32	16 Jul 2026	10	19.97	84.11	8.8	33.41	8.3	23.6	1.96
I32	20 Jul 2026	1	22.83	69.15	7.3	33.41	8.2	22.8	1.48
I32	20 Jul 2026	2	20.57	69.80	7.8	33.45	8.2	23.4	1.45
I32	20 Jul 2026	3	19.45	73.04	8.4	33.40	8.2	23.7	1.20
I32	20 Jul 2026	4	19.16	77.13	8.5	33.39	8.2	23.7	1.06
I32	20 Jul 2026	5	18.89	83.17	8.4	33.38	8.2	23.8	1.50
I32	20 Jul 2026	6	18.70	82.50	8.3	33.37	8.2	23.8	1.96
I32	20 Jul 2026	7	18.62	80.61	8.3	33.37	8.2	23.9	1.83
I32	20 Jul 2026	8	18.59	81.21	8.3	33.37	8.2	23.9	1.83
I32	20 Jul 2026	9	18.58	82.11	8.3	33.37	8.2	23.9	2.17
I32	20 Jul 2026	10	18.58	82.39	8.3	33.37	8.2	23.9	2.09
I32	30 Jul 2026	1	22.86	80.16	7.4	33.45	8.1	22.8	0.97
I32	30 Jul 2026	2	22.75	79.69	7.4	33.45	8.1	22.8	0.99
I32	30 Jul 2026	3	22.67	78.61	7.4	33.45	8.1	22.9	1.23
I32	30 Jul 2026	4	22.55	76.87	7.4	33.44	8.1	22.9	1.64
I32	30 Jul 2026	5	22.41	73.23	7.4	33.44	8.1	22.9	2.49
I32	30 Jul 2026	6	22.09	71.25	7.6	33.44	8.1	23.0	2.90
I32	30 Jul 2026	7	21.44	77.48	7.7	33.43	8.1	23.2	2.68
I32	30 Jul 2026	8	20.75	70.03	7.7	33.41	8.1	23.4	3.68
I32	30 Jul 2026	9	19.24	65.50	7.7	33.40	8.1	23.7	4.28
I32	30 Jul 2026	10	17.63	57.79	7.7	33.35	8.0	24.1	4.50

NA = not available

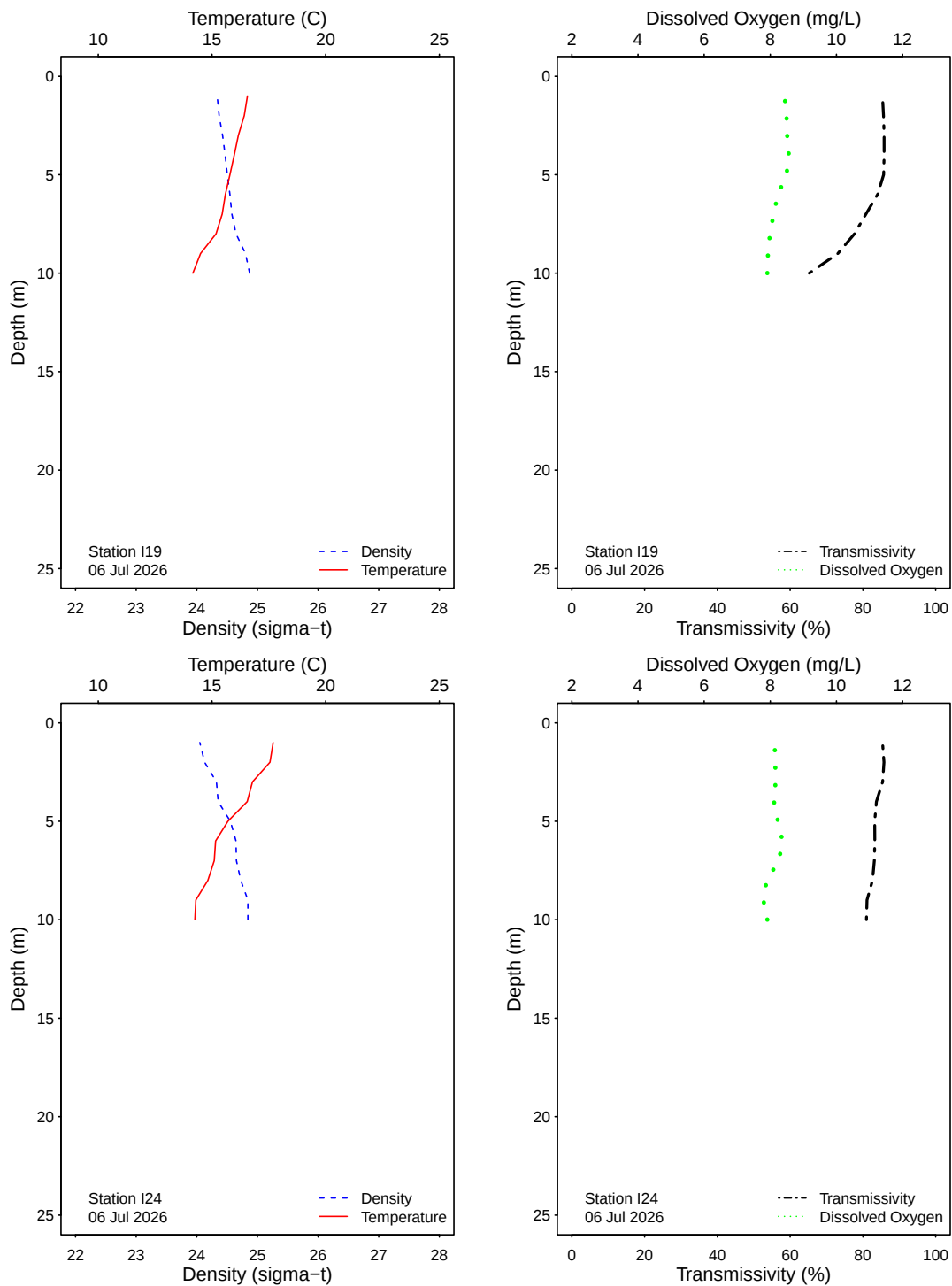


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

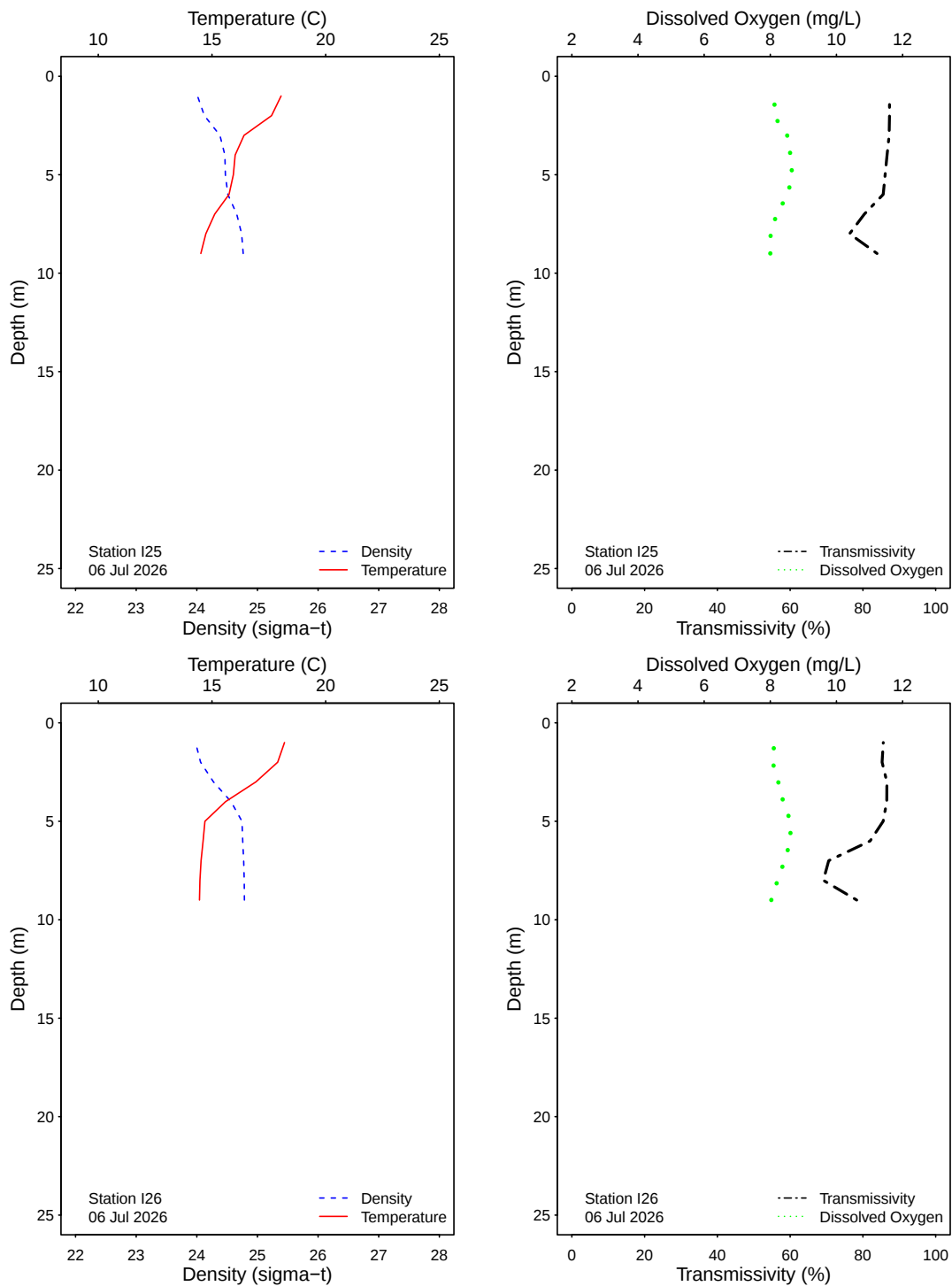


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

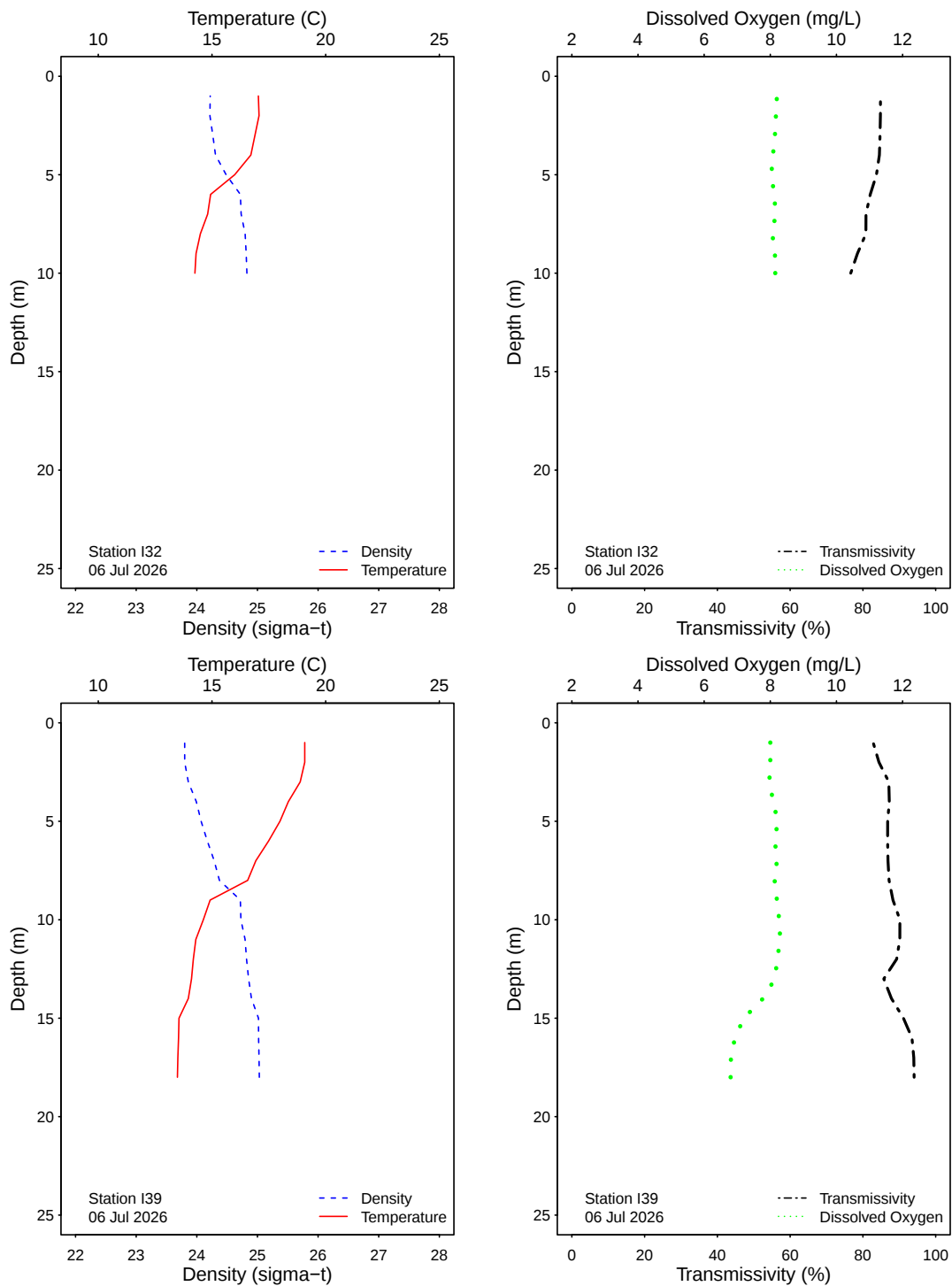


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

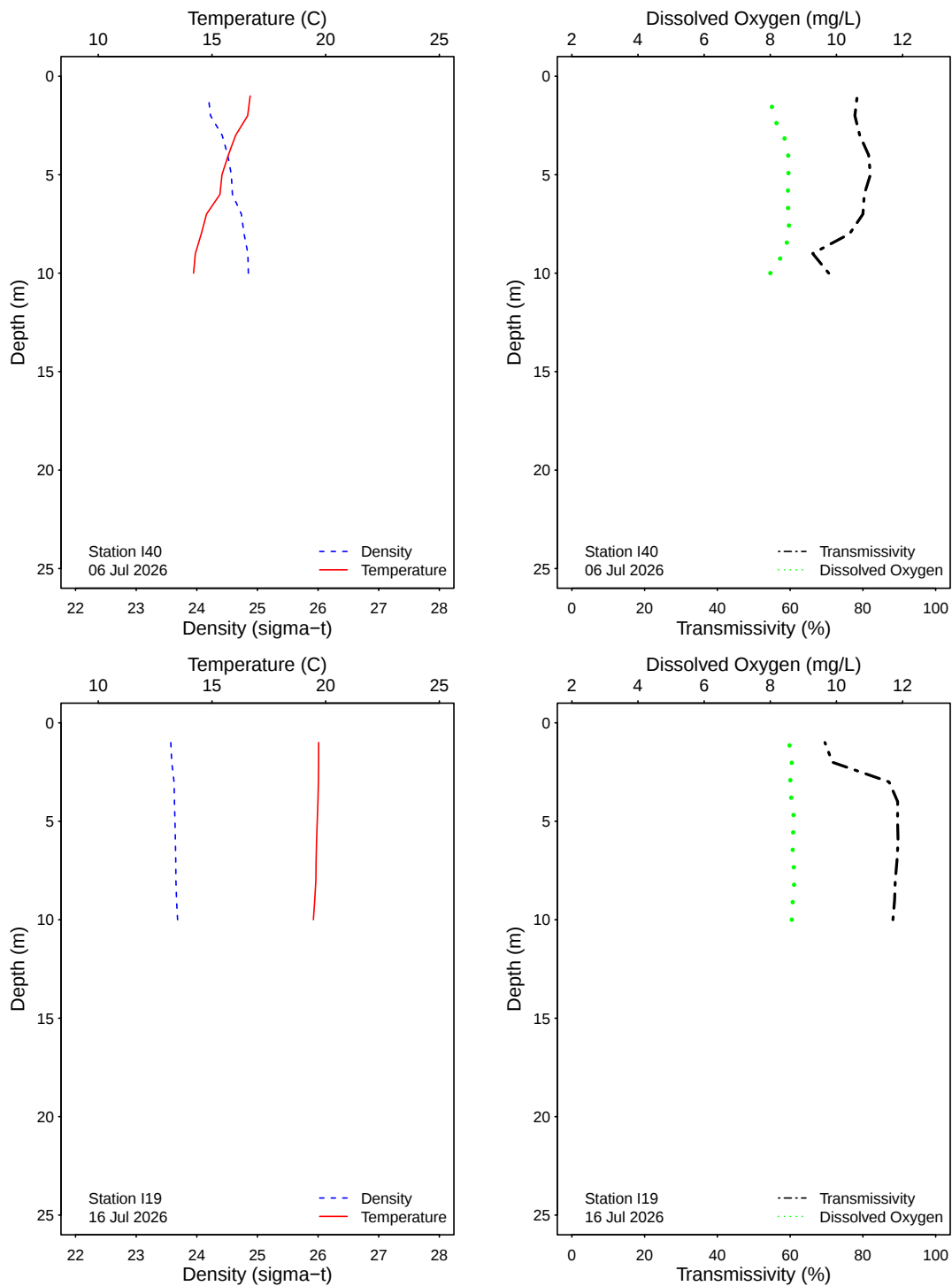


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

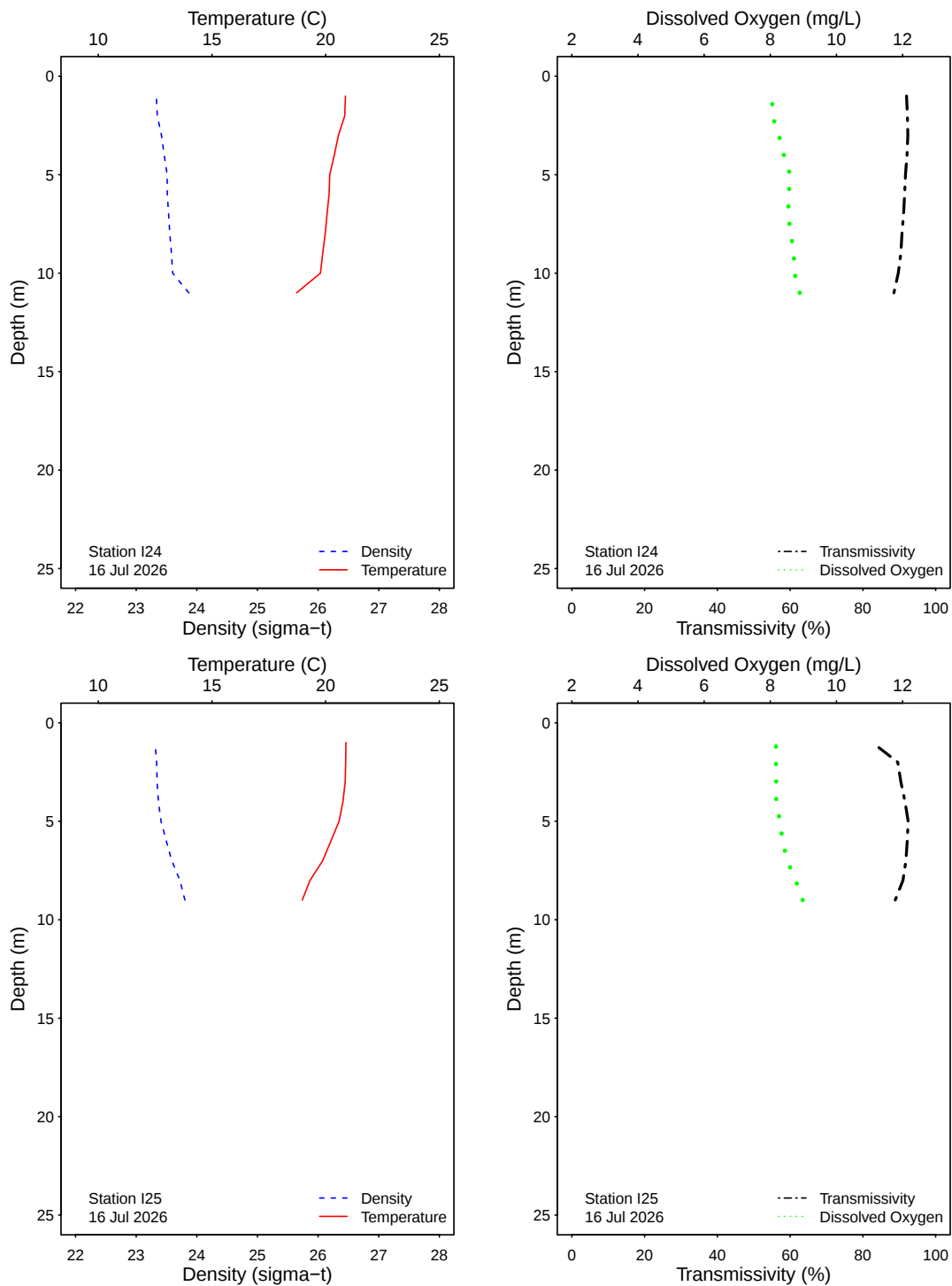


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

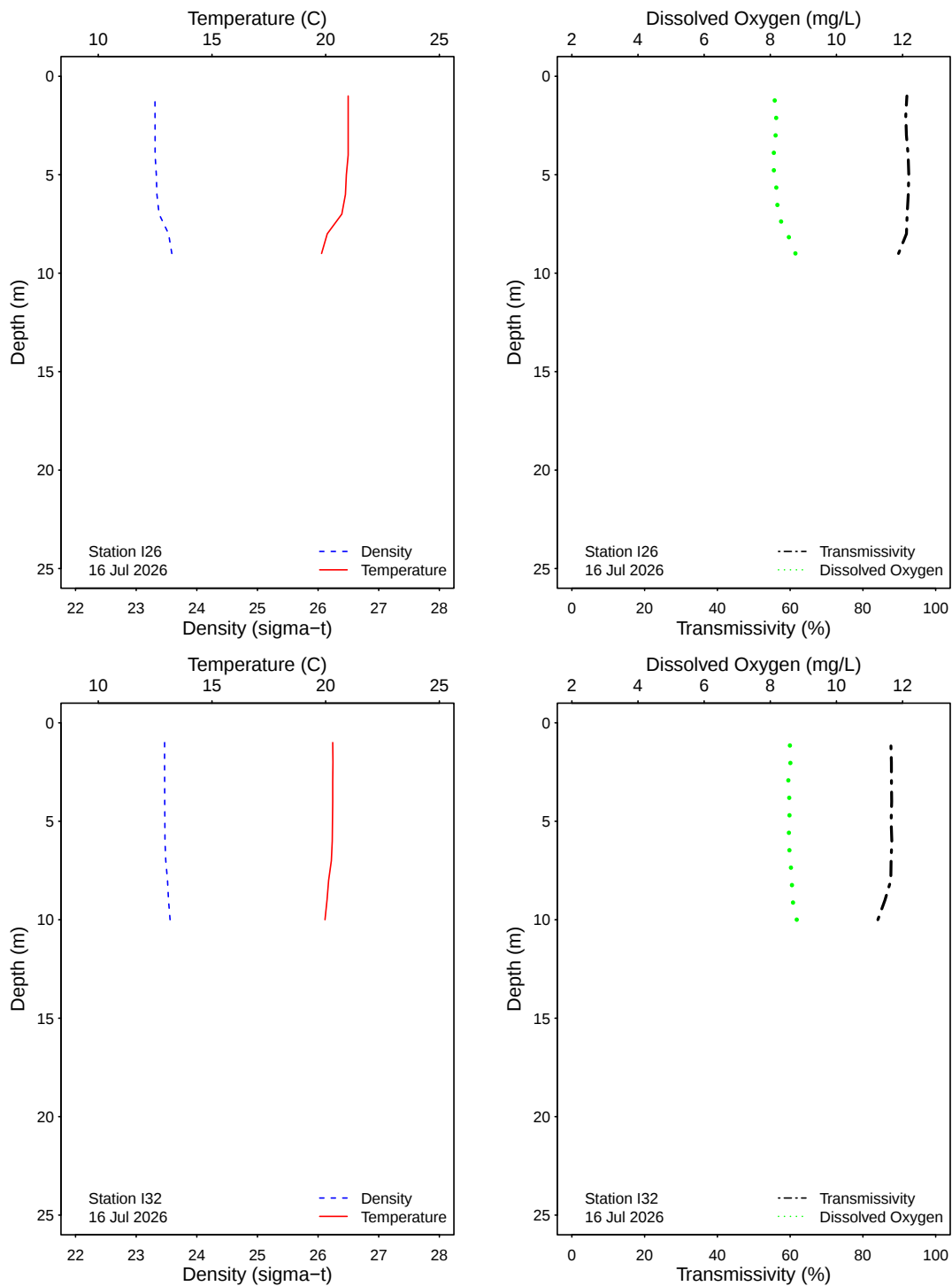


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

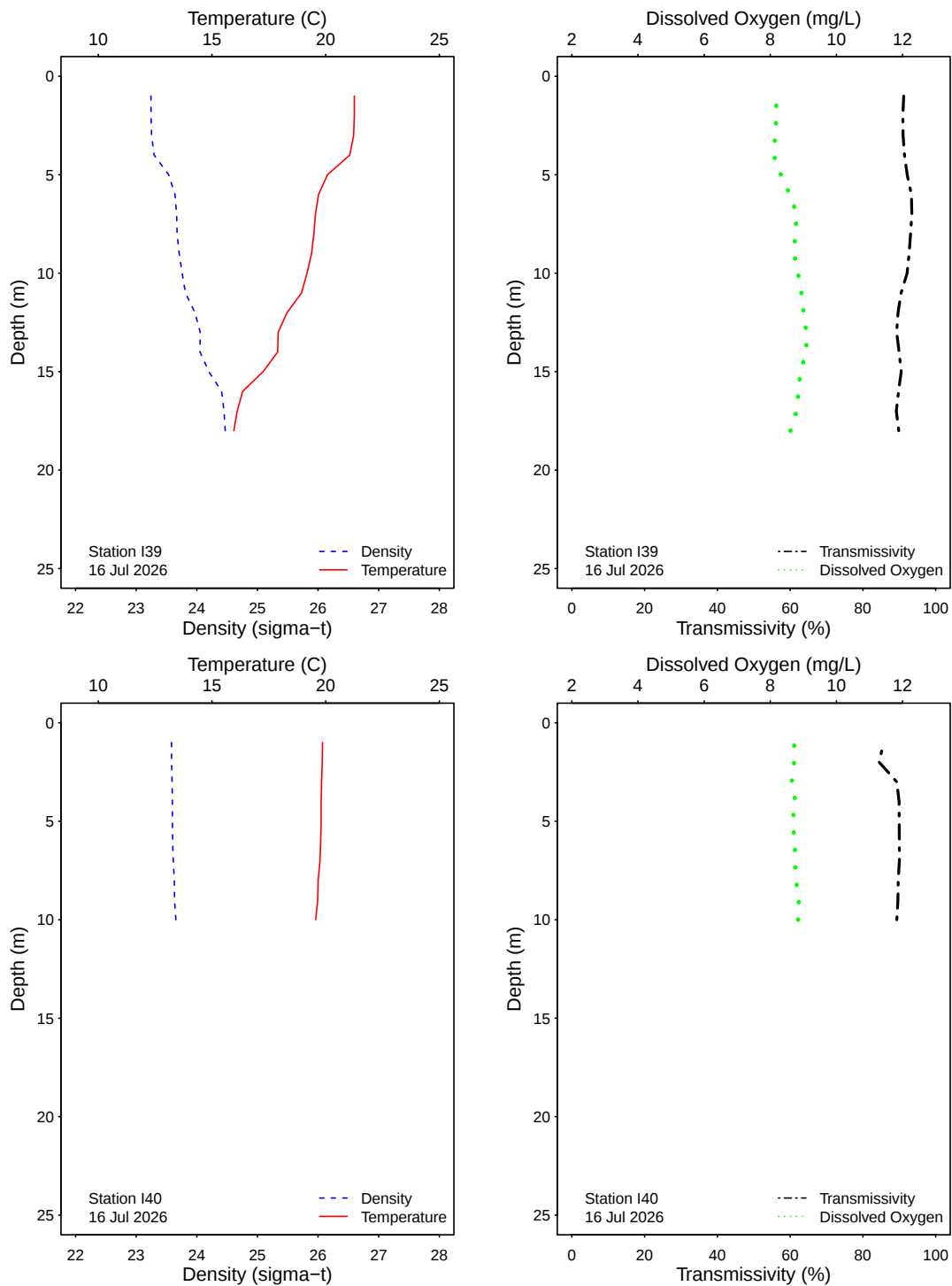


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

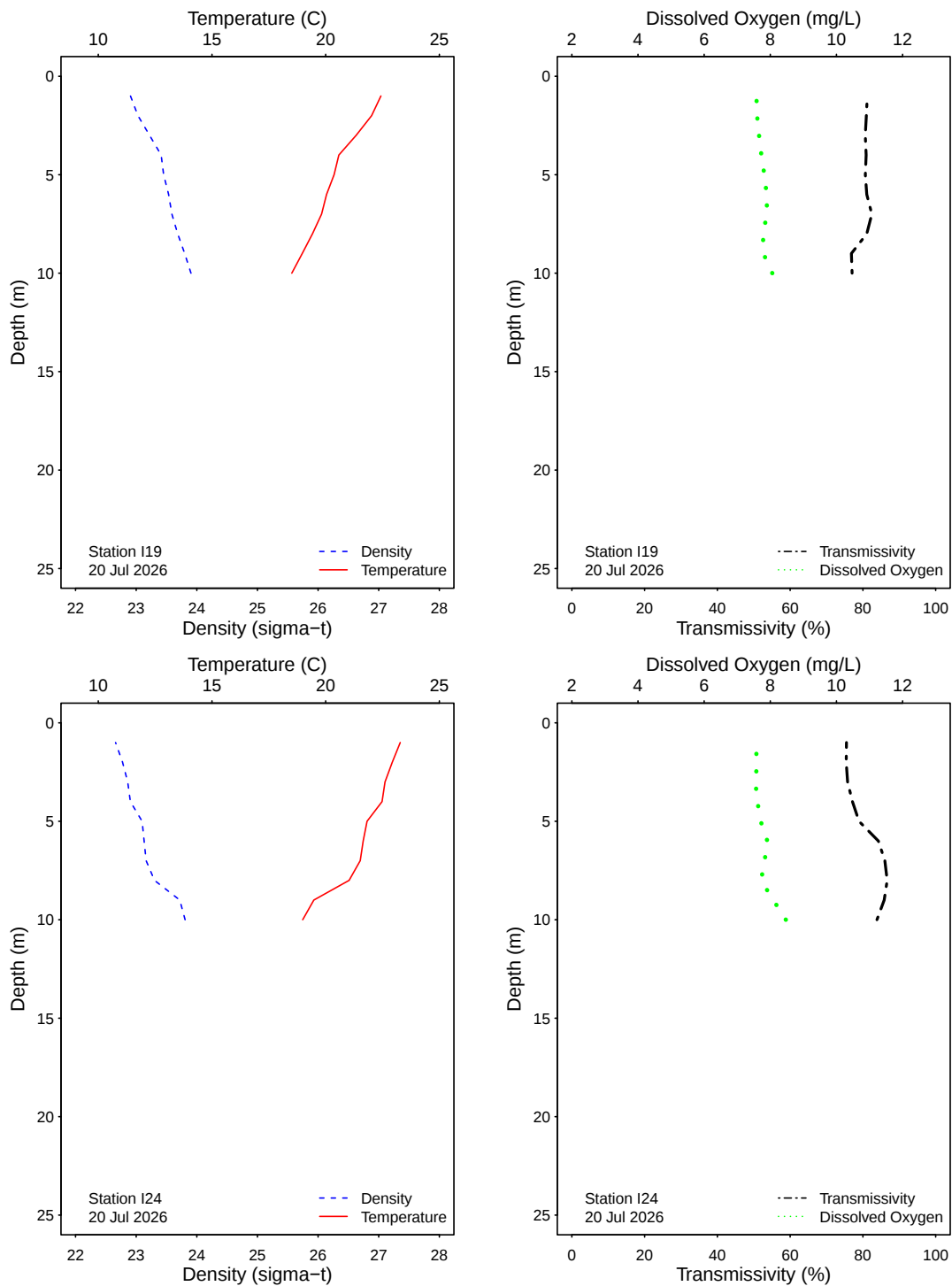


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

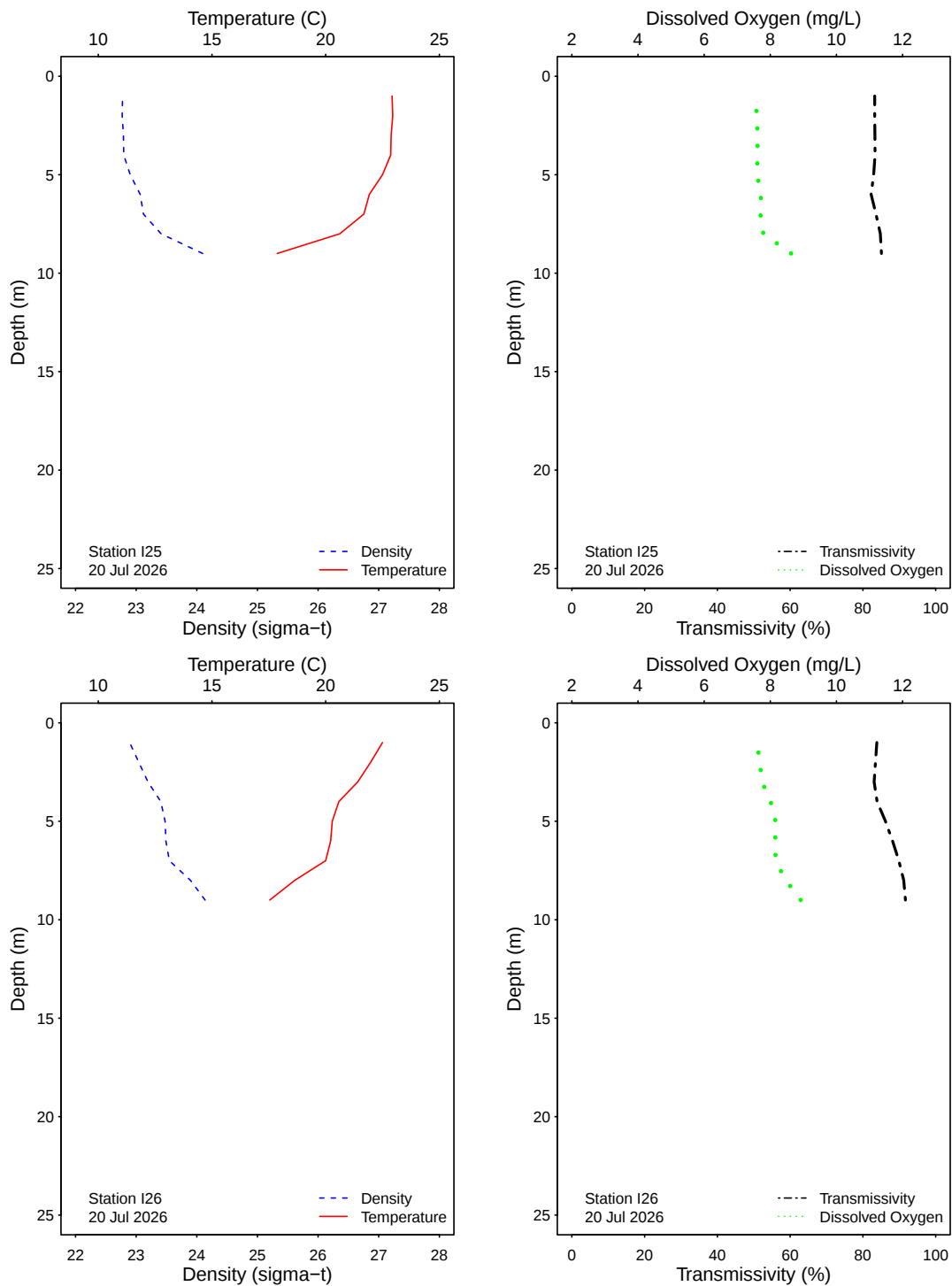


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

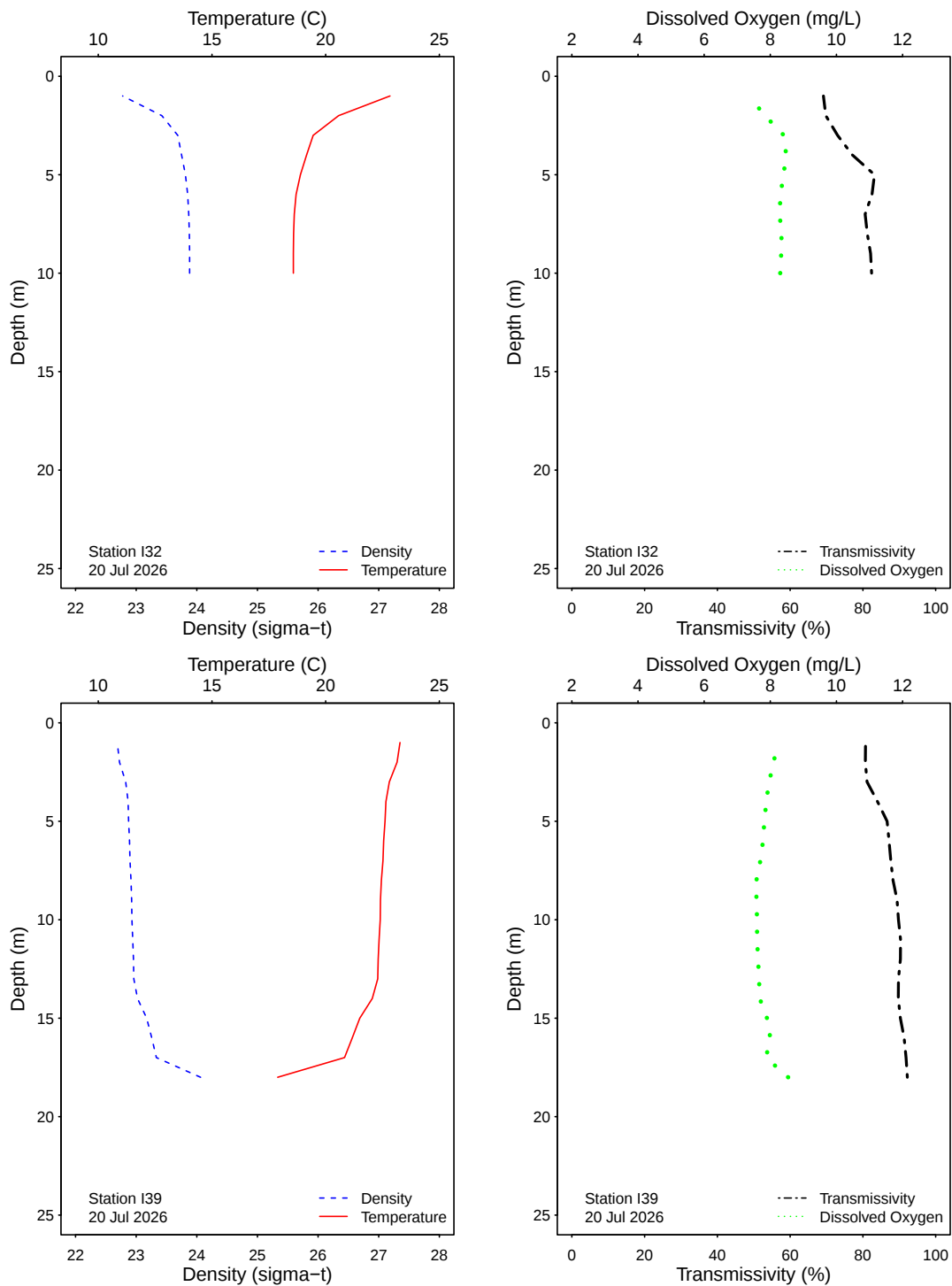


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

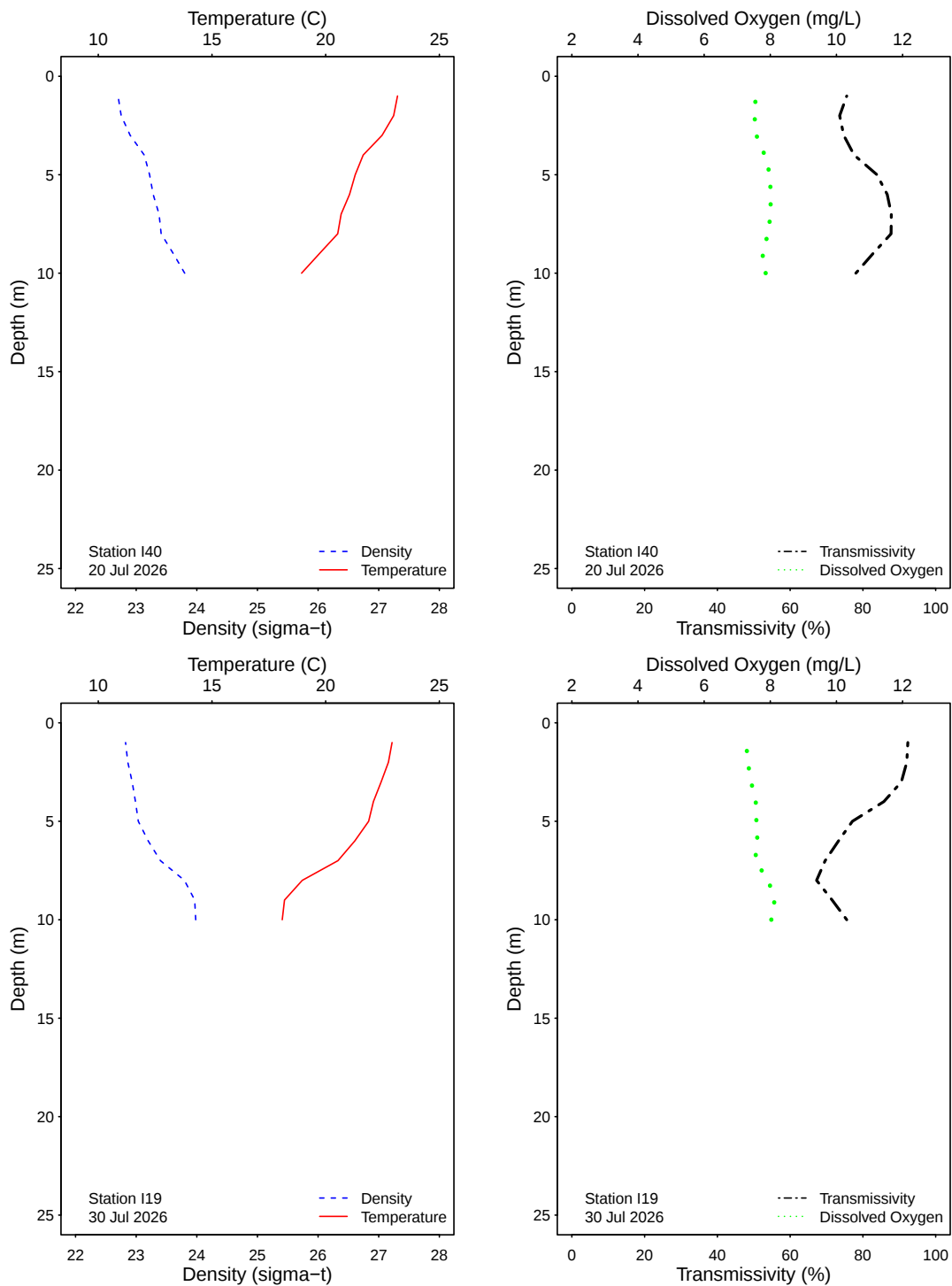


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

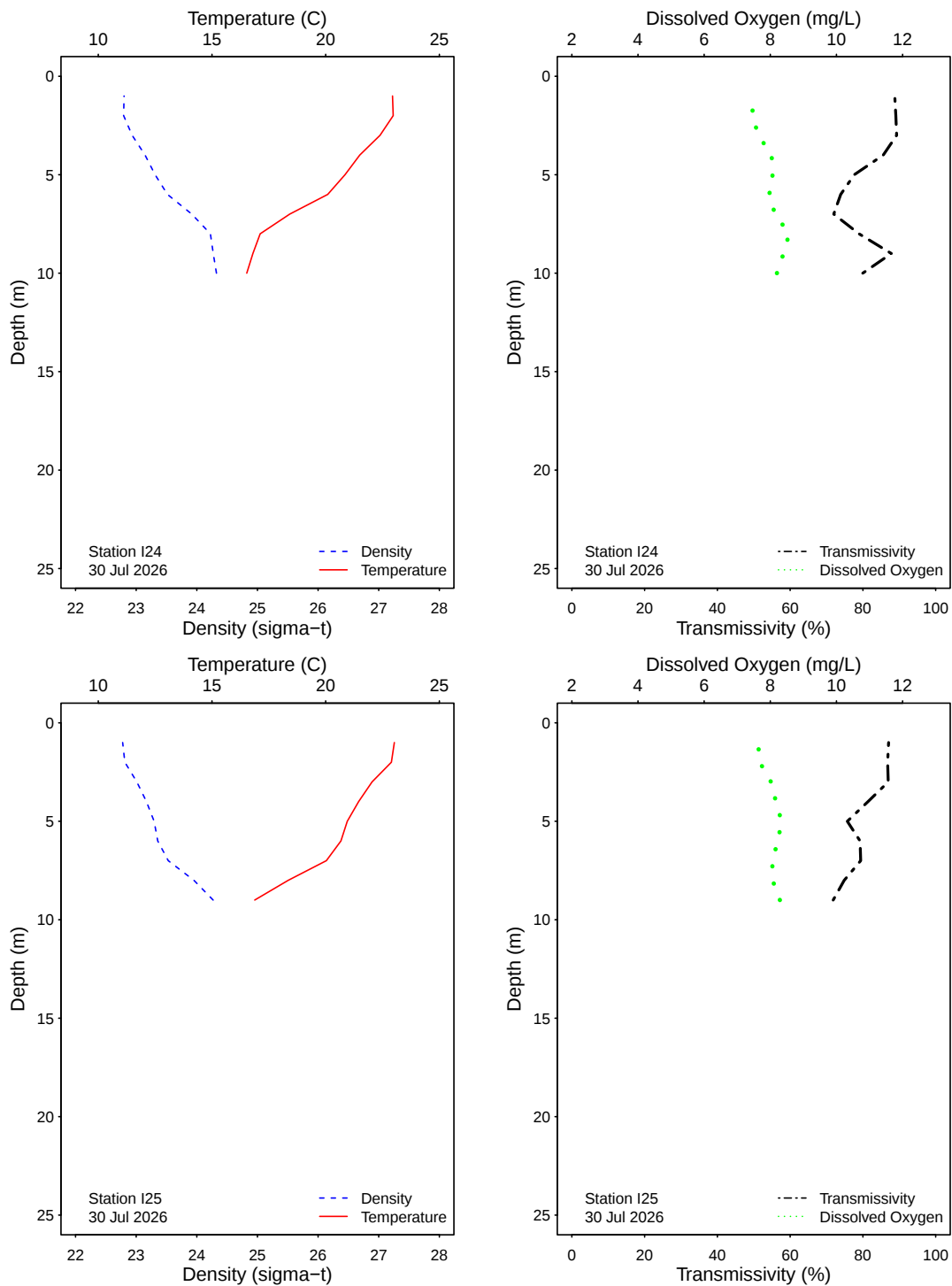


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

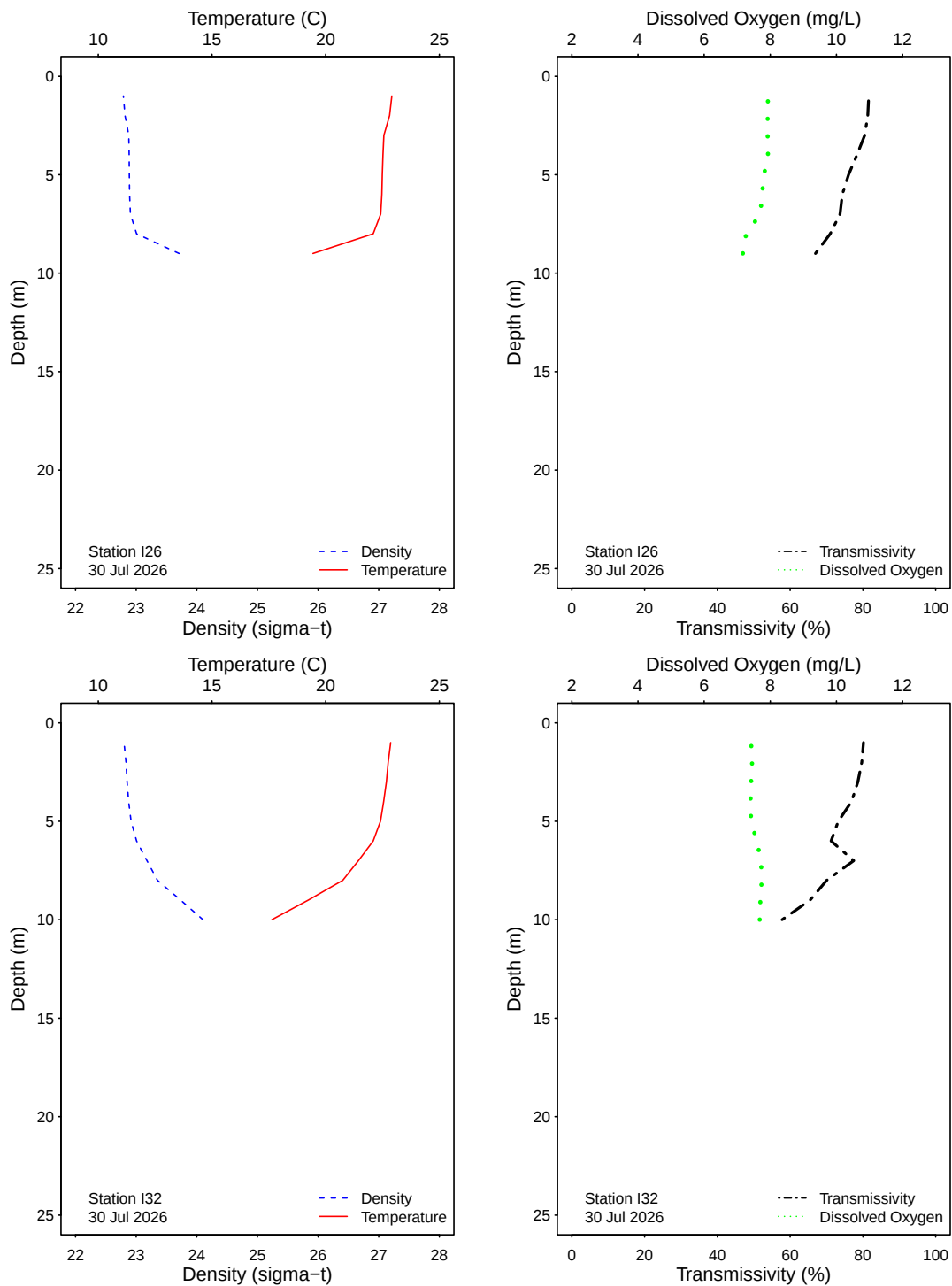


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

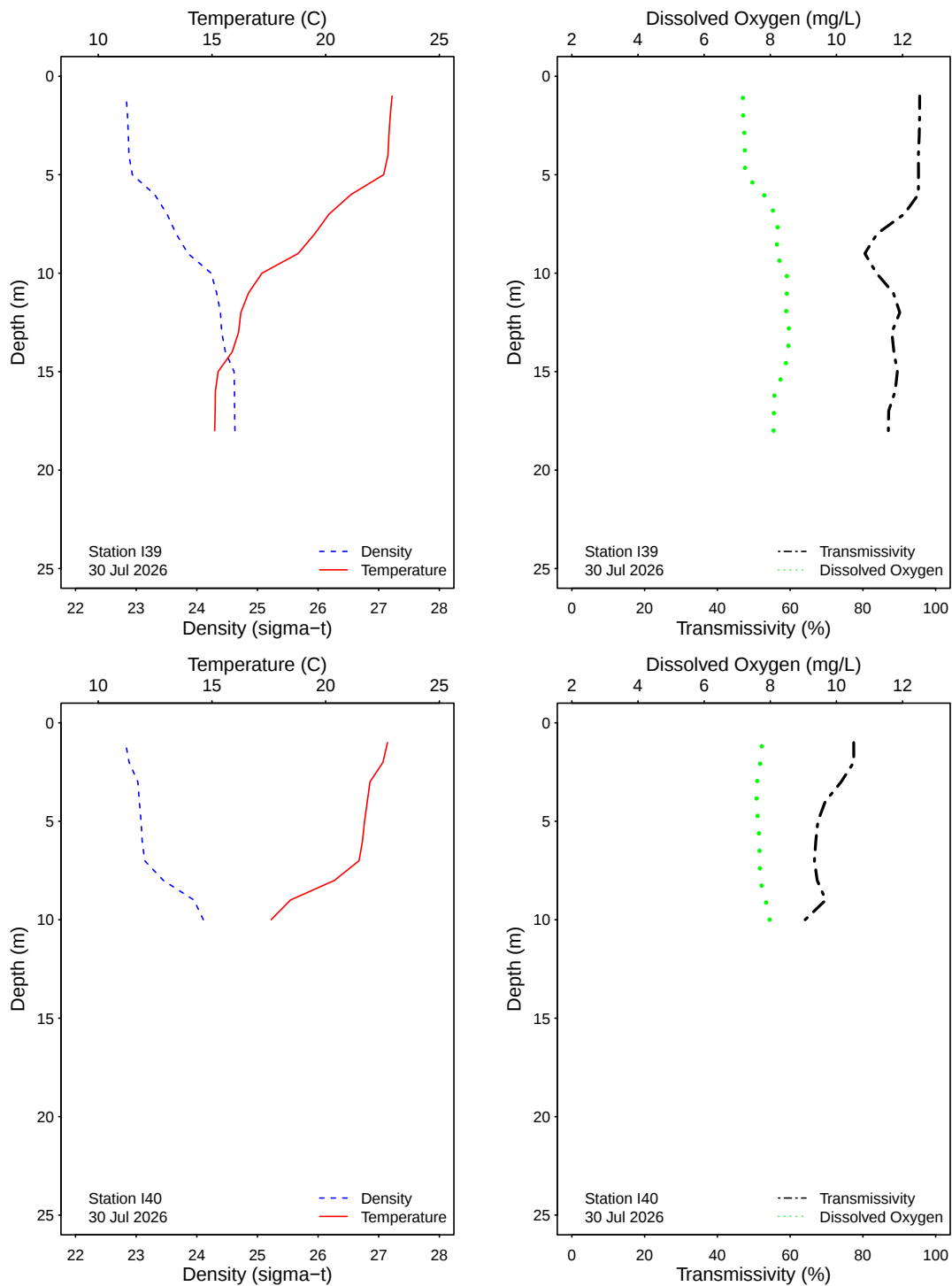


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

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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
S0	07 Jul 2026		KT	LAB DUPLICATE	2800	800	540
S2	07 Jul 2026		KT	LAB DUPLICATE	2	2	2
S2	14 Jul 2026		NCD	LAB DUPLICATE	6	2	2
S2	21 Jul 2026		KT	LAB DUPLICATE	20	2	2
S2	28 Jul 2026		ADG	LAB DUPLICATE	380	18	62
S3	07 Jul 2026		KT	LAB DUPLICATE	2	2	2
S3	14 Jul 2026		NCD	LAB DUPLICATE	40	12	2
S3	21 Jul 2026		KT	LAB DUPLICATE	20	2	2
S3	28 Jul 2026		ADG	LAB DUPLICATE	60	2	4
I19	06 Jul 2026	6	ADG	LAB DUPLICATE	2	2	2
I19	16 Jul 2026	6	JF	LAB DUPLICATE	2	2	2
I19	20 Jul 2026	6	KT	LAB DUPLICATE	2	2	2
I19	30 Jul 2026	6	NCD	LAB DUPLICATE	3200	340	160
I40	06 Jul 2026	6	ADG	LAB DUPLICATE	2	2	2
I40	16 Jul 2026	6	JF	LAB DUPLICATE	2	2	2
I40	20 Jul 2026	6	KT	LAB DUPLICATE	2	2	2
I40	30 Jul 2026	6	NCD	LAB DUPLICATE	20	20	20
S12	07 Jul 2026		NCD	FIELD DUPLICATE	180	18	22
S12	07 Jul 2026		NCD	LAB DUPLICATE	80	14	24
S12	14 Jul 2026		JF	FIELD DUPLICATE	20	22	4
S12	14 Jul 2026		JF	LAB DUPLICATE	40	18	6
S12	21 Jul 2026		SS	LAB DUPLICATE	20	12	2
S12	21 Jul 2026		SS	FIELD DUPLICATE	20	4	2
S12	28 Jul 2026		JF	LAB DUPLICATE	200	4	80
S12	28 Jul 2026		JF	FIELD DUPLICATE	200	14	80

ns = not sampled

ND = no data

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