

POINT LOMA OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

POINT LOMA WASTEWATER TREATMENT PLANT

NPDES Permit No. CA0107409
SDRWQCB Order No. R9-2026-0002

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 Point Loma Ocean Outfall, Point Loma Wastewater Treatment Plant as required per Order No. R9-2026-0002, NPDES Permit No. CA0107409.

This report includes raw ocean monitoring data and summaries of water quality parameters and ocean conditions measured during the month for the Point Loma outfall region. Also included are summaries of compliance with the bacterial water-contact standards specified in the California Ocean Plan.

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 for the San Diego coastal region surrounding the Point Loma Ocean Outfall are submitted to the San Diego Regional Water Quality Control Board and U.S. EPA Region 9 in accordance with Order No. R9-2026-0002, NPDES Permit No. CA0107409 for the Point Loma Wastewater Treatment Plant (PLWTP), Point Loma Ocean Outfall (PLOO). 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 PLWTP are presented in separate reports.

MATERIALS AND METHODS

Shore Stations

Water quality conditions are required to be monitored at eight shoreline stations, including D4, D5, D7, D8, D9, D10, D11 and D12, which range from the tip of the Point Loma Peninsula to west of Mission Bay (see station locations map). Over the past several years, due to increasing instability in several cliffside areas of Point Loma, City staff have been unable to safely access and sample several stations at various times.

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

Kelp Bed Stations

The eight kelp stations are sampled weekly according to permit specifications to monitor water quality conditions within the Point Loma kelp forest. These stations include three sites located along the inshore edge of the kelp bed paralleling the 9-m depth contour (i.e., stations C4, C5 and C6), and five sites located near the offshore edge of the kelp bed along the 18-m depth contour (i.e., stations A1, A6, A7, C7 and C8).

Routine weekly monitoring at each of the kelp bed sites consists primarily of collecting seawater samples at discrete depths to determine concentrations of fecal indicator bacteria (i.e., total coliforms, fecal coliforms, and *Enterococcus*). Water column profiles of various physical/chemical parameters are also generated during each sampling event, and visual observations of weather and water conditions are recorded at each station.

Seawater samples at the kelp bed stations are collected using a CTD-integrated rosette sampler with Niskin bottles. Aliquots for bacteriological analyses are drawn from these bottles into sterile sample bottles for processing at the City's Marine Microbiology Laboratory. Water column profiles of temperature, transmissivity, dissolved oxygen, pH, salinity, density, chlorophyll *a* are generated using a Sea-Bird conductivity, temperature and depth instrument (CTD), which collects these data at a rate of ≥ 4 scans per second. These scans are then internally averaged to create water

column profiles with data readings at a rate of one per meter. Additionally, CTD profile data for each water sample depth are presented with the bacteriological data.

Offshore Stations

Offshore water quality sampling is conducted quarterly typically during the months of February, May, August, and November. A total of 36 offshore stations (F01–F36) are sampled during each survey usually over a 3-day period. Three of the stations (F01–F03) are located along the 18 m depth contour, while 11 stations are located along each of the following contours: 60 m (stations F04–F14), 80 m (stations F15–F25), and 98 m (stations F26–F36). Of these 36 stations, 15 (F01–F03, F06–F14, F18–F20) are located within State jurisdictional waters (i.e., within 3 nautical miles of shore) and are subject to the California Ocean Plan’s compliance standards. Monitoring at all offshore sites includes measurements of *Enterococcus* bacteria, water temperature, salinity, density, dissolved oxygen, pH, chlorophyll *a*, transmissivity, chromomorphic dissolved organic matter (CDOM), and visual observations of weather and water conditions.

Seawater samples for bacteriological analyses at the offshore stations are collected using a CTD-integrated rosette sampler with Niskin bottles. Profiles of the various physical/chemical parameters (listed above) are taken using a Sea-Bird CTD. Additionally, data for depths closest to those at which bacteriological samples were collected are extracted from the CTD profiles and 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 geometric mean and single sample maximum water-contact standards specified in the California Ocean Plan. The seven standards are defined as follows:

30-day Geometric Mean: The following standards are based on the geometric mean of the five most recent samples from each site.

- (1) Total coliform density shall not exceed 1000 CFU/100 mL;
- (2) Fecal coliform density shall not exceed 200 CFU/100 mL;
- (3) *Enterococcus* density shall not exceed 35 CFU/100 mL

Single Sample Maximums:

- (1) Total coliform density shall not exceed 10,000 CFU/100 mL;
- (2) Fecal coliform density shall not exceed 400 CFU/100 mL;

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.

- (3) *Enterococcus* density shall not exceed 104 CFU/100 mL;
- (4) Total coliform density shall not exceed 1,000 CFU/100 mL when the fecal coliform/total coliform ratio exceeds 0.1.

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 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

Shore Stations

- The eight shore stations (D4, D5, D7, D8, D9, D10, D11, D12) were sampled on July 1, 8, 15, 22, and 29.
- During the July reporting period, one of the eight shore stations was out of compliance with the various 2019 California Ocean Plan (Ocean Plan) water contact standards on one or more days as follows:
 - o The 30-day running median standard for total coliforms was exceeded at station D11.
- A sewage-like odor was detected at stations D4 and D5 on one or more days in July.
- Over the years, elevated bacteria levels at shore and kelp bed stations have tended to be associated with rainfall events, heavy recreational use, or the presence of seabirds or decaying kelp and surf grass. 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 Stations

- The eight kelp bed water quality stations (A1, A6, A7, C4, C5, C6, C7, C8) were sampled on July 6, 16, 20, and 30.
- During the July reporting period, each of the eight kelp stations was in compliance with the various 2019 California Ocean Plan (Ocean Plan) water contact standards.
- Water column temperatures ranged from 13.47 to 23.27°C. The difference between surface and bottom waters ranged from 1.06 to 9.15°C.
- Chlorophyll *a* concentrations ranged from 0.26 to 6.48µg/L.
- Nothing of sewage origin was observed at PLOO kelp stations in July.

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

Offshore Stations

- Quarterly water quality sampling was not conducted during July at the offshore stations. The next quarterly sampling is scheduled for August 2026.



TABLES AND FIGURES

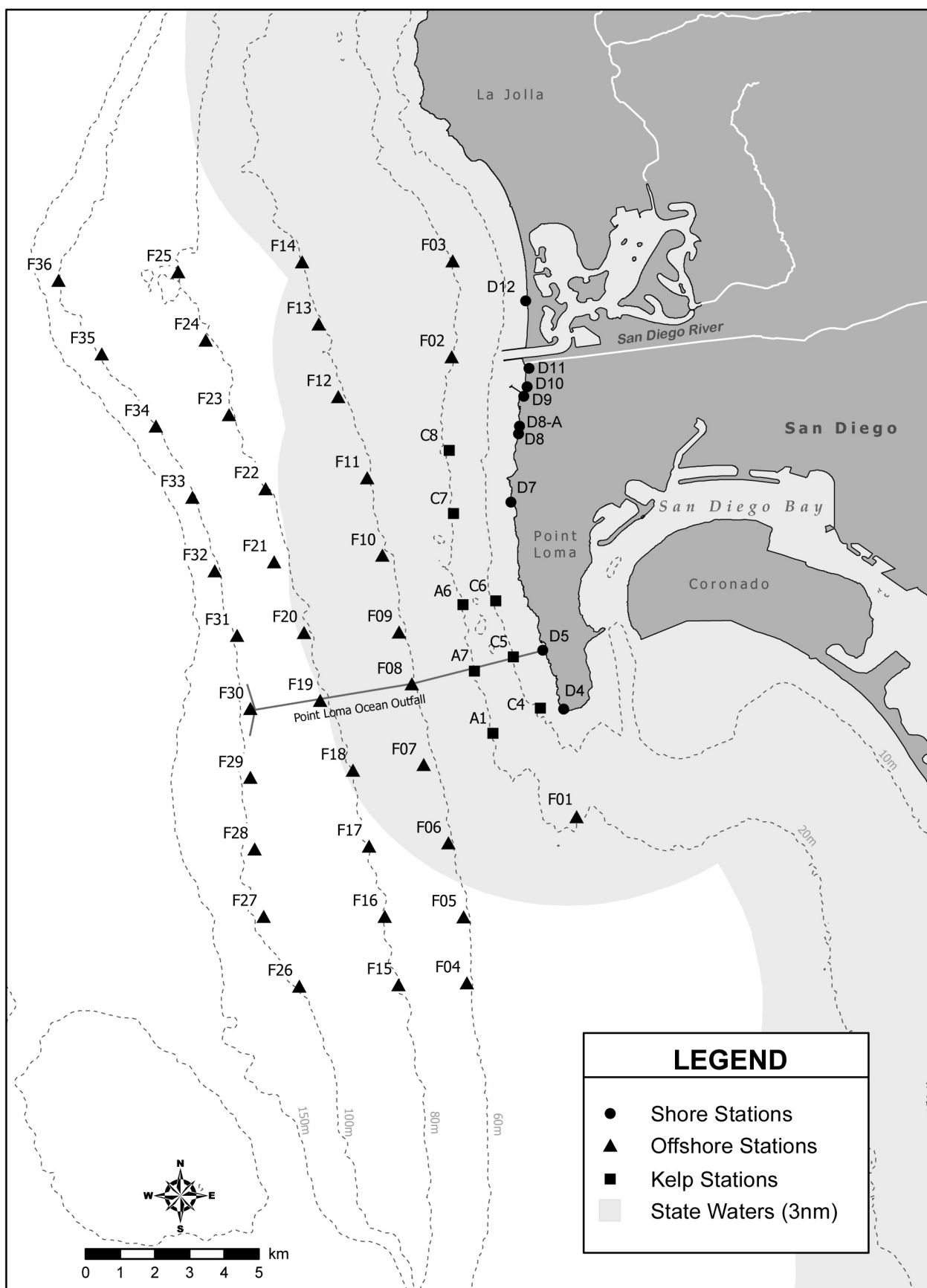


Figure 1.1 Station Map

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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 PLOO 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	D4	D5	D7	D8	D9	D10	D11	D12
01 Jul 2026	2	2	2	6	3	10	9	2
02 Jul 2026	2	2	2	6	3	10	9	2
03 Jul 2026	*2	*2	*2	*5	*3	*10	*11	*2
04 Jul 2026	*2	*2	*2	*5	*3	*10	*11	*2
05 Jul 2026	*2	*2	*2	*5	*3	*10	*11	*2
06 Jul 2026	*2	*2	*2	*5	*3	*10	*11	*2
07 Jul 2026	*2	*2	*2	*5	*3	*10	*11	*2
08 Jul 2026	2	2	2	4	3	10	9	2
09 Jul 2026	2	2	2	4	3	10	9	2
10 Jul 2026	*2	*2	*2	*5	*3	*16	*13	*2
11 Jul 2026	*2	*2	*2	*5	*3	*16	*13	*2
12 Jul 2026	*2	*2	*2	*5	*3	*16	*13	*2
13 Jul 2026	*2	*2	*2	*5	*3	*16	*13	*2
14 Jul 2026	*2	*2	*2	*5	*3	*16	*13	*2
15 Jul 2026	2	2	2	5	3	16	10	2
16 Jul 2026	2	2	2	5	3	16	10	2
17 Jul 2026	*2	*2	*2	*4	*3	*16	*9	*2
18 Jul 2026	*2	*2	*2	*4	*3	*16	*9	*2
19 Jul 2026	*2	*2	*2	*4	*3	*16	*9	*2
20 Jul 2026	*2	*2	*2	*4	*3	*16	*9	*2
21 Jul 2026	*2	*2	*2	*4	*3	*16	*9	*2
22 Jul 2026	2	2	2	3	3	11	8	2
23 Jul 2026	2	2	2	3	3	11	8	2
24 Jul 2026	2	2	2	3	3	11	8	2
25 Jul 2026	*2	*2	*2	*3	*3	*10	*9	*2
26 Jul 2026	*2	*2	*2	*3	*3	*10	*9	*2
27 Jul 2026	*2	*2	*2	*3	*3	*10	*9	*2
28 Jul 2026	*2	*2	*2	*3	*3	*10	*9	*2
29 Jul 2026	2	2	2	3	4	10	10	2
30 Jul 2026	2	2	2	3	4	10	10	2
31 Jul 2026	*2	*2	*2	*4	*4	*8	*7	*2

* Geometric mean calculated using n<5

Table 2.2

Summary of compliance at the PLOO 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	D4	D5	D7	D8	D9	D10	D11	D12
01 Jul 2026	IC	IC	IC	IC	IC	IC	IC	IC
08 Jul 2026	IC	IC	IC	IC	IC	IC	IC	IC
15 Jul 2026	IC	IC	IC	IC	IC	IC	IC	IC
22 Jul 2026	IC	IC	IC	IC	IC	IC	IC	IC
29 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 PLOO 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	D4	D5	D7	D8	D9	D10	D11	D12
01 Jul 2026	2	2	2	3	2	5	9	2
02 Jul 2026	2	2	2	3	2	5	9	2
03 Jul 2026	2	2	2	3	2	5	9	2
04 Jul 2026	2	2	2	3	2	5	9	2
05 Jul 2026	2	2	2	3	2	5	9	2
06 Jul 2026	2	2	2	3	2	5	9	2
07 Jul 2026	2	2	2	3	2	5	9	2
08 Jul 2026	1	1	1	2	1	3	4	1
09 Jul 2026	1	1	1	2	1	3	4	1
10 Jul 2026	1	1	1	2	1	3	4	1
11 Jul 2026	1	1	1	2	1	3	4	1
12 Jul 2026	1	1	1	2	1	3	4	1
13 Jul 2026	1	1	1	2	1	3	4	1
14 Jul 2026	1	1	1	2	1	3	4	1
15 Jul 2026	1	1	1	2	1	4	5	1
16 Jul 2026	1	1	1	2	1	4	5	1
17 Jul 2026	1	1	1	2	1	4	5	1
18 Jul 2026	1	1	1	2	1	4	5	1
19 Jul 2026	1	1	1	2	1	4	5	1
20 Jul 2026	1	1	1	2	1	4	5	1
21 Jul 2026	1	1	1	2	1	4	5	1
22 Jul 2026	1	2	2	2	1	4	5	1
23 Jul 2026	1	2	2	2	1	4	5	1
24 Jul 2026	1	2	2	2	1	4	5	1
25 Jul 2026	1	2	2	2	1	4	5	1
26 Jul 2026	1	2	2	2	1	4	5	1
27 Jul 2026	1	2	2	2	1	4	5	1
28 Jul 2026	1	2	2	2	1	4	5	1
29 Jul 2026	1	3	2	3	1	4	5	2
30 Jul 2026	1	3	2	3	1	4	5	2
31 Jul 2026	1	3	2	3	1	4	5	2

* Geometric mean calculated using $n < 5$

Table 2.4

Summary of compliance at the PLOO 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	D4	D5	D7	D8	D9	D10	D11	D12
July	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the PLOO 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	D4	D5	D7	D8	D9	D10	D11	D12
01 Jul 2026	20	20	20	40	20	60	80	20
02 Jul 2026	20	20	20	40	20	60	80	20
03 Jul 2026	*20	*20	*20	*40	*30	*60	*80	*20
04 Jul 2026	*20	*20	*20	*40	*30	*60	*80	*20
05 Jul 2026	*20	*20	*20	*40	*30	*60	*80	*20
06 Jul 2026	*20	*20	*20	*40	*30	*60	*80	*20
07 Jul 2026	*20	*20	*20	*40	*30	*60	*80	*20
08 Jul 2026	20	20	20	40	40	60	80	20
09 Jul 2026	20	20	20	40	40	60	80	20
10 Jul 2026	*20	*20	*20	*40	*40	*60	*100	*20
11 Jul 2026	*20	*20	*20	*40	*40	*60	*100	*20
12 Jul 2026	*20	*20	*20	*40	*40	*60	*100	*20
13 Jul 2026	*20	*20	*20	*40	*40	*60	*100	*20
14 Jul 2026	*20	*20	*20	*40	*40	*60	*100	*20
15 Jul 2026	20	20	20	40	40	60	80	20
16 Jul 2026	20	20	20	40	40	60	80	20
17 Jul 2026	*20	*20	*20	*40	*40	*40	*100	*20
18 Jul 2026	*20	*20	*20	*40	*40	*40	*100	*20
19 Jul 2026	*20	*20	*20	*40	*40	*40	*100	*20
20 Jul 2026	*20	*20	*20	*40	*40	*40	*100	*20
21 Jul 2026	*20	*20	*20	*40	*40	*40	*100	*20
22 Jul 2026	20	20	20	40	40	60	80	20
23 Jul 2026	20	20	20	40	40	60	80	20
24 Jul 2026	20	20	20	40	40	60	80	20
25 Jul 2026	*20	*20	*20	*40	*30	*60	*90	*15
26 Jul 2026	*20	*20	*20	*40	*30	*60	*90	*15
27 Jul 2026	*20	*20	*20	*40	*30	*60	*90	*15
28 Jul 2026	*20	*20	*20	*40	*30	*60	*90	*15
29 Jul 2026	20	20	20	40	40	60	60	20
30 Jul 2026	20	20	20	40	40	60	60	20
31 Jul 2026	*20	*20	*20	*30	*30	*60	*60	*15

* Median calculated using n<5

Table 2.6

Summary of compliance at the PLOO 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	D4	D5	D7	D8	D9	D10	D11	D12
July	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.7

Summary of water quality parameters at the PLOO 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
D10	01 Jul 2026	952	60e	<20	7
D10	08 Jul 2026	833	60e	12e	<1
D10	15 Jul 2026	934	<20	<20	29
D10	22 Jul 2026	748	60e	<2	<1
D10	29 Jul 2026	1015	100e	10e	<20
D11	01 Jul 2026	939	220e	60e	8
D11	08 Jul 2026	821	120e	4e	<1
D11	15 Jul 2026	1026	<20	4e	10
D11	22 Jul 2026	737	60e	6e	3
D11	29 Jul 2026	1029	60e	20e	<20
D12	01 Jul 2026	916	<20	2e	3
D12	08 Jul 2026	803	2e	<2	<1
D12	15 Jul 2026	1052	<20	<2	1
D12	22 Jul 2026	720	10e	<2	1
D12	29 Jul 2026	750	<20	<2	7
D4	01 Jul 2026	839	20e	2e	<1
D4	08 Jul 2026	1022	<20	<2	<1
D4	15 Jul 2026	813	<20	<2	2
D4	22 Jul 2026	923	<20	2e	<1
D4	29 Jul 2026	848	40e	<2	1
D5	01 Jul 2026	827	<20	<2	<1
D5	08 Jul 2026	1010	<20	<2	<1
D5	15 Jul 2026	754	<20	<2	<1
D5	22 Jul 2026	910	<20	2e	<20
D5	29 Jul 2026	857	40e	<2	<20
D7	01 Jul 2026	1021	<20	<2	1
D7	08 Jul 2026	919	20e	<2	<1
D7	15 Jul 2026	835	20e	<2	1
D7	22 Jul 2026	844	20e	<2	4
D7	29 Jul 2026	921	20e	4e	<20
D8	01 Jul 2026	1007	40e	<2	2
D8	08 Jul 2026	907	20e	<2	<1
D8	15 Jul 2026	850	120e	8e	7
D8	22 Jul 2026	832	40e	<2	<1
D8	29 Jul 2026	936	<20	8e	<20
D9	01 Jul 2026	749	60e	4e	<1
D9	08 Jul 2026	850	40e	<2	1
D9	15 Jul 2026	913	20e	6e	<1
D9	22 Jul 2026	814	20e	<2	<1
D9	29 Jul 2026	817	60e	10e	1

ns = not sampled

ND = no data

Table 2.8

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

Station	Date	Parameter	Value
D4	01 Jul 2026	Arrive Time	839
D4	01 Jul 2026	Wind Speed (kts)	2
D4	01 Jul 2026	Wind Dir	SW
D4	01 Jul 2026	Animal Life	Bird-5; Seal/Sea Lion-1;
D4	01 Jul 2026	Floatables	
D4	01 Jul 2026	Current Direction	S
D4	01 Jul 2026	Water Temp (C)	17.8
D4	01 Jul 2026	High Tide Time	1137
D4	01 Jul 2026	Low Tide Time	515
D4	01 Jul 2026	Comments	Water clear; Trash-2; Kelp;Seagrass;Algae; Sewage-like odor
D4	08 Jul 2026	Arrive Time	1022
D4	08 Jul 2026	Wind Speed (kts)	7
D4	08 Jul 2026	Wind Dir	SW
D4	08 Jul 2026	Animal Life	Bird-1;
D4	08 Jul 2026	Floatables	
D4	08 Jul 2026	Current Direction	N
D4	08 Jul 2026	Water Temp (C)	19.4
D4	08 Jul 2026	High Tide Time	358
D4	08 Jul 2026	Low Tide Time	922
D4	08 Jul 2026	Comments	Water clear; Surfer/Paddle boarder-1; Trash-4; Seagrass;Algae;Debris
D4	15 Jul 2026	Arrive Time	813
D4	15 Jul 2026	Wind Speed (kts)	0.3
D4	15 Jul 2026	Wind Dir	W
D4	15 Jul 2026	Animal Life	
D4	15 Jul 2026	Floatables	
D4	15 Jul 2026	Current Direction	S
D4	15 Jul 2026	Water Temp (C)	17.7
D4	15 Jul 2026	High Tide Time	1112
D4	15 Jul 2026	Low Tide Time	457
D4	15 Jul 2026	Comments	Water clear; Trash-2; Algae;Seagrass
D4	22 Jul 2026	Arrive Time	923
D4	22 Jul 2026	Wind Speed (kts)	4.1
D4	22 Jul 2026	Wind Dir	NW
D4	22 Jul 2026	Animal Life	
D4	22 Jul 2026	Floatables	
D4	22 Jul 2026	Current Direction	S
D4	22 Jul 2026	Water Temp (C)	21.4
D4	22 Jul 2026	High Tide Time	516
D4	22 Jul 2026	Low Tide Time	933
D4	22 Jul 2026	Comments	Water clear; Trash-2; Kelp;Seagrass
D4	29 Jul 2026	Arrive Time	857
D4	29 Jul 2026	Wind Speed (kts)	2.9
D4	29 Jul 2026	Wind Dir	W
D4	29 Jul 2026	Animal Life	
D4	29 Jul 2026	Floatables	
D4	29 Jul 2026	Current Direction	S
D4	29 Jul 2026	Water Temp (C)	20.8
D4	29 Jul 2026	High Tide Time	1029
D4	29 Jul 2026	Low Tide Time	418
D4	29 Jul 2026	Comments	Water clear; Surfer/Paddle boarder-1; Trash-1; Seagrass;Algae

Station	Date	Parameter	Value
D5	01 Jul 2026	Arrive Time	827
D5	01 Jul 2026	Wind Speed (kts)	0.1
D5	01 Jul 2026	Wind Dir	SW
D5	01 Jul 2026	Animal Life	
D5	01 Jul 2026	Floatables	
D5	01 Jul 2026	Current Direction	S
D5	01 Jul 2026	Water Temp (C)	18.6
D5	01 Jul 2026	High Tide Time	1137
D5	01 Jul 2026	Low Tide Time	515
D5	01 Jul 2026	Comments	Water clear; Trash-2; Algae;Kelp;Seagrass; Sewage-like odor
D5	08 Jul 2026	Arrive Time	1010
D5	08 Jul 2026	Wind Speed (kts)	1.5
D5	08 Jul 2026	Wind Dir	W
D5	08 Jul 2026	Animal Life	
D5	08 Jul 2026	Floatables	
D5	08 Jul 2026	Current Direction	N
D5	08 Jul 2026	Water Temp (C)	19.1
D5	08 Jul 2026	High Tide Time	358
D5	08 Jul 2026	Low Tide Time	922
D5	08 Jul 2026	Comments	Water clear; Trash-1; Kelp;Algae
D5	15 Jul 2026	Arrive Time	754
D5	15 Jul 2026	Wind Speed (kts)	1.2
D5	15 Jul 2026	Wind Dir	W
D5	15 Jul 2026	Animal Life	
D5	15 Jul 2026	Floatables	
D5	15 Jul 2026	Current Direction	S
D5	15 Jul 2026	Water Temp (C)	19.7
D5	15 Jul 2026	High Tide Time	1112
D5	15 Jul 2026	Low Tide Time	457
D5	15 Jul 2026	Comments	Water clear; Trash-1; Algae
D5	22 Jul 2026	Arrive Time	910
D5	22 Jul 2026	Wind Speed (kts)	6.2
D5	22 Jul 2026	Wind Dir	NW
D5	22 Jul 2026	Animal Life	
D5	22 Jul 2026	Floatables	
D5	22 Jul 2026	Current Direction	S
D5	22 Jul 2026	Water Temp (C)	22.1
D5	22 Jul 2026	High Tide Time	516
D5	22 Jul 2026	Low Tide Time	933
D5	22 Jul 2026	Comments	Water clear; Trash-2; Kelp;Seagrass
D5	29 Jul 2026	Arrive Time	848
D5	29 Jul 2026	Wind Speed (kts)	1.3
D5	29 Jul 2026	Wind Dir	SW
D5	29 Jul 2026	Animal Life	
D5	29 Jul 2026	Floatables	
D5	29 Jul 2026	Current Direction	S
D5	29 Jul 2026	Water Temp (C)	21.8
D5	29 Jul 2026	High Tide Time	1029
D5	29 Jul 2026	Low Tide Time	418
D5	29 Jul 2026	Comments	Water clear; Trash-1; Seagrass;Algae
D7	01 Jul 2026	Arrive Time	1021
D7	01 Jul 2026	Wind Speed (kts)	1.4
D7	01 Jul 2026	Wind Dir	W
D7	01 Jul 2026	Animal Life	
D7	01 Jul 2026	Floatables	

Station	Date	Parameter	Value
D7	01 Jul 2026	Current Direction	S
D7	01 Jul 2026	Water Temp (C)	19.2
D7	01 Jul 2026	High Tide Time	1137
D7	01 Jul 2026	Low Tide Time	515
D7	01 Jul 2026	Comments	Water clear; Surfer/Paddle boarder-8; Trash-2; Algae;Seagrass;Kelp
D7	08 Jul 2026	Arrive Time	919
D7	08 Jul 2026	Wind Speed (kts)	2.3
D7	08 Jul 2026	Wind Dir	SW
D7	08 Jul 2026	Animal Life	Dog-1;
D7	08 Jul 2026	Floatables	
D7	08 Jul 2026	Current Direction	N
D7	08 Jul 2026	Water Temp (C)	18.6
D7	08 Jul 2026	High Tide Time	358
D7	08 Jul 2026	Low Tide Time	922
D7	08 Jul 2026	Comments	Water clear; Trash-1; Algae;Kelp;Seagrass; Person/Walker/Jogger-5
D7	15 Jul 2026	Arrive Time	835
D7	15 Jul 2026	Wind Speed (kts)	0.9
D7	15 Jul 2026	Wind Dir	W
D7	15 Jul 2026	Animal Life	
D7	15 Jul 2026	Floatables	
D7	15 Jul 2026	Current Direction	S
D7	15 Jul 2026	Water Temp (C)	19.8
D7	15 Jul 2026	High Tide Time	1112
D7	15 Jul 2026	Low Tide Time	457
D7	15 Jul 2026	Comments	Water clear; Surfer/Paddle boarder-6; Trash-1; Seagrass;Algae
D7	22 Jul 2026	Arrive Time	844
D7	22 Jul 2026	Wind Speed (kts)	1
D7	22 Jul 2026	Wind Dir	NW
D7	22 Jul 2026	Animal Life	
D7	22 Jul 2026	Floatables	
D7	22 Jul 2026	Current Direction	S
D7	22 Jul 2026	Water Temp (C)	21.7
D7	22 Jul 2026	High Tide Time	516
D7	22 Jul 2026	Low Tide Time	933
D7	22 Jul 2026	Comments	Water clear; Trash-2; Kelp;Seagrass
D7	29 Jul 2026	Arrive Time	921
D7	29 Jul 2026	Wind Speed (kts)	1.1
D7	29 Jul 2026	Wind Dir	W
D7	29 Jul 2026	Animal Life	
D7	29 Jul 2026	Floatables	
D7	29 Jul 2026	Current Direction	S
D7	29 Jul 2026	Water Temp (C)	19.9
D7	29 Jul 2026	High Tide Time	1029
D7	29 Jul 2026	Low Tide Time	418
D7	29 Jul 2026	Comments	Water clear; Surfer/Paddle boarder-12; Trash-1; Kelp;Algae;Seagrass
D8	01 Jul 2026	Arrive Time	1007
D8	01 Jul 2026	Wind Speed (kts)	1.2
D8	01 Jul 2026	Wind Dir	SW
D8	01 Jul 2026	Animal Life	Dog-1;
D8	01 Jul 2026	Floatables	
D8	01 Jul 2026	Current Direction	S
D8	01 Jul 2026	Water Temp (C)	19.7

Station	Date	Parameter	Value
D8	01 Jul 2026	High Tide Time	1137
D8	01 Jul 2026	Low Tide Time	515
D8	01 Jul 2026	Comments	Water clear; Trash-2; Kelp;Seagrass; Person/Walker/Jogger-1
D8	08 Jul 2026	Arrive Time	907
D8	08 Jul 2026	Wind Speed (kts)	2
D8	08 Jul 2026	Wind Dir	SW
D8	08 Jul 2026	Animal Life	Dog-1;
D8	08 Jul 2026	Floatables	
D8	08 Jul 2026	Current Direction	N
D8	08 Jul 2026	Water Temp (C)	19.2
D8	08 Jul 2026	High Tide Time	358
D8	08 Jul 2026	Low Tide Time	922
D8	08 Jul 2026	Comments	Water clear; Trash-3; Kelp;Seagrass;Algae;Debris; Person/Walker/Jogger-1
D8	15 Jul 2026	Arrive Time	850
D8	15 Jul 2026	Wind Speed (kts)	0
D8	15 Jul 2026	Wind Dir	XX
D8	15 Jul 2026	Animal Life	Dog-2;
D8	15 Jul 2026	Floatables	
D8	15 Jul 2026	Current Direction	S
D8	15 Jul 2026	Water Temp (C)	20.6
D8	15 Jul 2026	High Tide Time	1112
D8	15 Jul 2026	Low Tide Time	457
D8	15 Jul 2026	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae; Person/Walker/Jogger-3
D8	22 Jul 2026	Arrive Time	832
D8	22 Jul 2026	Wind Speed (kts)	2.5
D8	22 Jul 2026	Wind Dir	NW
D8	22 Jul 2026	Animal Life	Dog-2;
D8	22 Jul 2026	Floatables	
D8	22 Jul 2026	Current Direction	S
D8	22 Jul 2026	Water Temp (C)	21.9
D8	22 Jul 2026	High Tide Time	516
D8	22 Jul 2026	Low Tide Time	933
D8	22 Jul 2026	Comments	Water clear; Trash-2; Kelp;Seagrass; Person/Walker/Jogger-6
D8	29 Jul 2026	Arrive Time	936
D8	29 Jul 2026	Wind Speed (kts)	3
D8	29 Jul 2026	Wind Dir	SW
D8	29 Jul 2026	Animal Life	Dog-2;
D8	29 Jul 2026	Floatables	
D8	29 Jul 2026	Current Direction	S
D8	29 Jul 2026	Water Temp (C)	22.4
D8	29 Jul 2026	High Tide Time	1029
D8	29 Jul 2026	Low Tide Time	418
D8	29 Jul 2026	Comments	Water clear; Surfer/Paddle boarder-1; Trash-1; Kelp;Seagrass;Algae; Person/Walker/Jogger-1
D9	01 Jul 2026	Arrive Time	749
D9	01 Jul 2026	Wind Speed (kts)	0.4
D9	01 Jul 2026	Wind Dir	SW
D9	01 Jul 2026	Animal Life	
D9	01 Jul 2026	Floatables	
D9	01 Jul 2026	Current Direction	S
D9	01 Jul 2026	Water Temp (C)	19.7
D9	01 Jul 2026	High Tide Time	1137

Station	Date	Parameter	Value
D9	01 Jul 2026	Low Tide Time	515
D9	01 Jul 2026	Comments	Water clear; Trash-2; Kelp;Seagrass;Algae; Person/Walker/Jogger-11
D9	08 Jul 2026	Arrive Time	850
D9	08 Jul 2026	Wind Speed (kts)	1.4
D9	08 Jul 2026	Wind Dir	SW
D9	08 Jul 2026	Animal Life	
D9	08 Jul 2026	Floatables	
D9	08 Jul 2026	Current Direction	N
D9	08 Jul 2026	Water Temp (C)	19.2
D9	08 Jul 2026	High Tide Time	358
D9	08 Jul 2026	Low Tide Time	922
D9	08 Jul 2026	Comments	Water clear; Trash-1; Algae;Kelp; Person/Walker/Jogger-5
D9	15 Jul 2026	Arrive Time	913
D9	15 Jul 2026	Wind Speed (kts)	1.7
D9	15 Jul 2026	Wind Dir	W
D9	15 Jul 2026	Animal Life	
D9	15 Jul 2026	Floatables	
D9	15 Jul 2026	Current Direction	S
D9	15 Jul 2026	Water Temp (C)	20.7
D9	15 Jul 2026	High Tide Time	1112
D9	15 Jul 2026	Low Tide Time	457
D9	15 Jul 2026	Comments	Water clear; Trash-2; Algae; Person/Walker/Jogger-2
D9	22 Jul 2026	Arrive Time	814
D9	22 Jul 2026	Wind Speed (kts)	3.6
D9	22 Jul 2026	Wind Dir	NW
D9	22 Jul 2026	Animal Life	
D9	22 Jul 2026	Floatables	
D9	22 Jul 2026	Current Direction	S
D9	22 Jul 2026	Water Temp (C)	21.4
D9	22 Jul 2026	High Tide Time	516
D9	22 Jul 2026	Low Tide Time	933
D9	22 Jul 2026	Comments	Water clear; Trash-3; Seagrass; Person/Walker/Jogger-4; Active construction
D9	29 Jul 2026	Arrive Time	817
D9	29 Jul 2026	Wind Speed (kts)	0.6
D9	29 Jul 2026	Wind Dir	W
D9	29 Jul 2026	Animal Life	
D9	29 Jul 2026	Floatables	
D9	29 Jul 2026	Current Direction	S
D9	29 Jul 2026	Water Temp (C)	20.2
D9	29 Jul 2026	High Tide Time	1029
D9	29 Jul 2026	Low Tide Time	418
D9	29 Jul 2026	Comments	Water clear; Surfer/Paddle boarder-3; Trash-1; Kelp;Algae;Seagrass; Person/Walker/Jogger-2
D10	01 Jul 2026	Arrive Time	952
D10	01 Jul 2026	Wind Speed (kts)	5.2
D10	01 Jul 2026	Wind Dir	SW
D10	01 Jul 2026	Animal Life	Bird-5;
D10	01 Jul 2026	Floatables	
D10	01 Jul 2026	Current Direction	S
D10	01 Jul 2026	Water Temp (C)	19.4
D10	01 Jul 2026	High Tide Time	1137
D10	01 Jul 2026	Low Tide Time	515
D10	01 Jul 2026	Comments	Water clear; Surfer/Paddle boarder-30; Trash-2; Kelp;Seagrass; Person/Walker/Jogger-13

Station	Date	Parameter	Value
D10	08 Jul 2026	Arrive Time	833
D10	08 Jul 2026	Wind Speed (kts)	3.3
D10	08 Jul 2026	Wind Dir	N
D10	08 Jul 2026	Animal Life	Bird-1;
D10	08 Jul 2026	Floatables	
D10	08 Jul 2026	Current Direction	N
D10	08 Jul 2026	Water Temp (C)	19.7
D10	08 Jul 2026	High Tide Time	358
D10	08 Jul 2026	Low Tide Time	922
D10	08 Jul 2026	Comments	Water clear; Boogie boarder/Swimmer-1; Trash-3; Kelp;Sea-grass;Algae;Debris; Person/Walker/Jogger-4
D10	15 Jul 2026	Arrive Time	934
D10	15 Jul 2026	Wind Speed (kts)	2.5
D10	15 Jul 2026	Wind Dir	NW
D10	15 Jul 2026	Animal Life	
D10	15 Jul 2026	Floatables	
D10	15 Jul 2026	Current Direction	S
D10	15 Jul 2026	Water Temp (C)	21.7
D10	15 Jul 2026	High Tide Time	1112
D10	15 Jul 2026	Low Tide Time	457
D10	15 Jul 2026	Comments	Water clear; Surfer/Paddle boarder-25; Trash-1; Seagrass; Person/Walker/Jogger-38
D10	22 Jul 2026	Arrive Time	748
D10	22 Jul 2026	Wind Speed (kts)	6.2
D10	22 Jul 2026	Wind Dir	NW
D10	22 Jul 2026	Animal Life	Bird-4;
D10	22 Jul 2026	Floatables	
D10	22 Jul 2026	Current Direction	S
D10	22 Jul 2026	Water Temp (C)	21.5
D10	22 Jul 2026	High Tide Time	516
D10	22 Jul 2026	Low Tide Time	933
D10	22 Jul 2026	Comments	Water clear; Surfer/Paddle boarder-16; Trash-3; Kelp;Sea-grass; Person/Walker/Jogger-12
D10	29 Jul 2026	Arrive Time	1015
D10	29 Jul 2026	Wind Speed (kts)	4.3
D10	29 Jul 2026	Wind Dir	SW
D10	29 Jul 2026	Animal Life	
D10	29 Jul 2026	Floatables	
D10	29 Jul 2026	Current Direction	S
D10	29 Jul 2026	Water Temp (C)	20.6
D10	29 Jul 2026	High Tide Time	1029
D10	29 Jul 2026	Low Tide Time	418
D10	29 Jul 2026	Comments	Water clear; Surfer/Paddle boarder-14; Trash-1; Kelp;Sea-grass; Person/Walker/Jogger-15
D11	01 Jul 2026	Arrive Time	939
D11	01 Jul 2026	Wind Speed (kts)	5.2
D11	01 Jul 2026	Wind Dir	SW
D11	01 Jul 2026	Animal Life	Bird-5; Dog-3;
D11	01 Jul 2026	Floatables	
D11	01 Jul 2026	Current Direction	S
D11	01 Jul 2026	Water Temp (C)	19.2
D11	01 Jul 2026	High Tide Time	1137
D11	01 Jul 2026	Low Tide Time	515
D11	01 Jul 2026	Comments	Water clear; Surfer/Paddle boarder-15; Trash-2; Kelp;Sea-grass; Person/Walker/Jogger-10

Station	Date	Parameter	Value
D11	08 Jul 2026	Arrive Time	821
D11	08 Jul 2026	Wind Speed (kts)	4.1
D11	08 Jul 2026	Wind Dir	SW
D11	08 Jul 2026	Animal Life	Bird-2;
D11	08 Jul 2026	Floatables	
D11	08 Jul 2026	Current Direction	N
D11	08 Jul 2026	Water Temp (C)	19.6
D11	08 Jul 2026	High Tide Time	358
D11	08 Jul 2026	Low Tide Time	922
D11	08 Jul 2026	Comments	Water clear; Trash-3; Seagrass;Kelp;Algae;Debris
D11	15 Jul 2026	Arrive Time	1026
D11	15 Jul 2026	Wind Speed (kts)	4.9
D11	15 Jul 2026	Wind Dir	W
D11	15 Jul 2026	Animal Life	
D11	15 Jul 2026	Floatables	
D11	15 Jul 2026	Current Direction	S
D11	15 Jul 2026	Water Temp (C)	20.2
D11	15 Jul 2026	High Tide Time	1112
D11	15 Jul 2026	Low Tide Time	457
D11	15 Jul 2026	Comments	Water clear; Boogie boarder/Swimmer-10; Surfer/Paddle boarder-24; Trash-1; Seagrass;Algae; Person/Walker/Jogger-25
D11	22 Jul 2026	Arrive Time	737
D11	22 Jul 2026	Wind Speed (kts)	2.8
D11	22 Jul 2026	Wind Dir	NW
D11	22 Jul 2026	Animal Life	Bird-2; Dog-4;
D11	22 Jul 2026	Floatables	
D11	22 Jul 2026	Current Direction	S
D11	22 Jul 2026	Water Temp (C)	21.6
D11	22 Jul 2026	High Tide Time	516
D11	22 Jul 2026	Low Tide Time	933
D11	22 Jul 2026	Comments	Water clear; Boogie boarder/Swimmer-2; Surfer/Paddle boarder-8; Trash-2; Kelp;Seagrass; Person/Walker/Jogger-5
D11	29 Jul 2026	Arrive Time	1029
D11	29 Jul 2026	Wind Speed (kts)	4.9
D11	29 Jul 2026	Wind Dir	W
D11	29 Jul 2026	Animal Life	
D11	29 Jul 2026	Floatables	
D11	29 Jul 2026	Current Direction	S
D11	29 Jul 2026	Water Temp (C)	22.8
D11	29 Jul 2026	High Tide Time	1029
D11	29 Jul 2026	Low Tide Time	418
D11	29 Jul 2026	Comments	Water clear; Surfer/Paddle boarder-7; Trash-1; Kelp;Seagrass;Algae; Person/Walker/Jogger-12
D12	01 Jul 2026	Arrive Time	916
D12	01 Jul 2026	Wind Speed (kts)	3.4
D12	01 Jul 2026	Wind Dir	SW
D12	01 Jul 2026	Animal Life	Bird-5;
D12	01 Jul 2026	Floatables	
D12	01 Jul 2026	Current Direction	S
D12	01 Jul 2026	Water Temp (C)	18.4
D12	01 Jul 2026	High Tide Time	1137
D12	01 Jul 2026	Low Tide Time	515
D12	01 Jul 2026	Comments	Water clear; Surfer/Paddle boarder-1; Fisherpersion-1; Trash-2; Kelp;Seagrass; Person/Walker/Jogger-11
D12	08 Jul 2026	Arrive Time	803

Station	Date	Parameter	Value
D12	08 Jul 2026	Wind Speed (kts)	3.6
D12	08 Jul 2026	Wind Dir	SW
D12	08 Jul 2026	Animal Life	Bird-20; Dog-1;
D12	08 Jul 2026	Floatables	
D12	08 Jul 2026	Current Direction	N
D12	08 Jul 2026	Water Temp (C)	19.6
D12	08 Jul 2026	High Tide Time	358
D12	08 Jul 2026	Low Tide Time	922
D12	08 Jul 2026	Comments	Water clear; Trash-4; Kelp;Seagrass;Algae;Debris; Person/Walker/Jogger-7
D12	15 Jul 2026	Arrive Time	1052
D12	15 Jul 2026	Wind Speed (kts)	3
D12	15 Jul 2026	Wind Dir	NW
D12	15 Jul 2026	Animal Life	
D12	15 Jul 2026	Floatables	
D12	15 Jul 2026	Current Direction	S
D12	15 Jul 2026	Water Temp (C)	18.7
D12	15 Jul 2026	High Tide Time	1112
D12	15 Jul 2026	Low Tide Time	457
D12	15 Jul 2026	Comments	Water clear; Boogie boarder/Swimmer-30; Surfer/Paddle boarder-5; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-55
D12	22 Jul 2026	Arrive Time	720
D12	22 Jul 2026	Wind Speed (kts)	6.4
D12	22 Jul 2026	Wind Dir	NW
D12	22 Jul 2026	Animal Life	Bird-5; Dog-3;
D12	22 Jul 2026	Floatables	
D12	22 Jul 2026	Current Direction	S
D12	22 Jul 2026	Water Temp (C)	21
D12	22 Jul 2026	High Tide Time	516
D12	22 Jul 2026	Low Tide Time	933
D12	22 Jul 2026	Comments	Water clear; Boogie boarder/Swimmer-5; Fisherpersion-3; Trash-2; Kelp;Seagrass; Person/Walker/Jogger-12
D12	29 Jul 2026	Arrive Time	750
D12	29 Jul 2026	Wind Speed (kts)	3.5
D12	29 Jul 2026	Wind Dir	S
D12	29 Jul 2026	Animal Life	
D12	29 Jul 2026	Floatables	
D12	29 Jul 2026	Current Direction	S
D12	29 Jul 2026	Water Temp (C)	21.1
D12	29 Jul 2026	High Tide Time	1029
D12	29 Jul 2026	Low Tide Time	418
D12	29 Jul 2026	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-12

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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 PLOO 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	A1	A6	A7	C4	C5	C6	C7	C8
01 Jul 2026	3	3	3	2	3	2	2	3
02 Jul 2026	*4	*3	*4	*2	*3	*2	*2	*3
03 Jul 2026	*4	*3	*4	*2	*3	*2	*2	*3
04 Jul 2026	*4	*3	*4	*2	*3	*2	*2	*3
05 Jul 2026	*4	*3	*4	*2	*3	*2	*2	*3
06 Jul 2026	3	3	3	2	3	2	2	3
07 Jul 2026	3	3	3	2	3	2	2	3
08 Jul 2026	3	3	3	2	3	2	2	3
09 Jul 2026	*4	*3	*4	*2	*3	*2	*2	*3
10 Jul 2026	*4	*3	*4	*2	*3	*2	*2	*3
11 Jul 2026	*4	*3	*4	*2	*3	*2	*2	*3
12 Jul 2026	*4	*3	*4	*2	*3	*2	*2	*3
13 Jul 2026	*4	*3	*4	*2	*3	*2	*2	*3
14 Jul 2026	*4	*3	*4	*2	*3	*2	*2	*3
15 Jul 2026	*4	*3	*4	*2	*3	*2	*2	*3
16 Jul 2026	*2	*2	*3	*2	*3	*2	*2	*2
17 Jul 2026	*2	*2	*3	*2	*3	*2	*2	*2
18 Jul 2026	*2	*2	*3	*2	*3	*2	*2	*2
19 Jul 2026	*2	*2	*3	*2	*3	*2	*2	*2
20 Jul 2026	2	2	3	2	3	2	2	2
21 Jul 2026	2	2	3	2	3	2	2	2
22 Jul 2026	2	2	3	2	3	2	2	2
23 Jul 2026	2	2	3	2	3	2	2	2
24 Jul 2026	*2	*2	*2	*2	*3	*2	*2	*2
25 Jul 2026	*2	*2	*2	*2	*3	*2	*2	*2
26 Jul 2026	*2	*2	*2	*2	*3	*2	*2	*2
27 Jul 2026	*2	*2	*2	*2	*3	*2	*2	*2
28 Jul 2026	*2	*2	*2	*2	*3	*2	*2	*2
29 Jul 2026	*2	*2	*2	*2	*2	*2	*2	*2
30 Jul 2026	*2	*2	*2	*2	*2	*2	*2	*2
31 Jul 2026	*2	*2	*2	*2	*2	*2	*2	*2

* Geometric mean calculated using n<5

Table 3.2

Summary of compliance at the PLOO 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	A1	A6	A7	C4	C5	C6	C7	C8
06 Jul 2026	IC	IC	IC	IC	IC	IC	IC	IC
16 Jul 2026	IC	IC	IC	IC	IC	IC	IC	IC
20 Jul 2026	IC	IC	IC	IC	IC	IC	IC	IC
30 Jul 2026	IC	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 PLOO 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	A1	A6	A7	C4	C5	C6	C7	C8
01 Jul 2026	2	2	2	1	1	1	1	2
02 Jul 2026	2	2	2	1	1	1	1	2
03 Jul 2026	2	2	2	1	1	1	1	2
04 Jul 2026	2	2	2	1	1	1	1	2
05 Jul 2026	2	2	2	1	1	1	1	2
06 Jul 2026	2	2	2	1	1	1	1	2
07 Jul 2026	2	2	2	1	1	1	1	2
08 Jul 2026	2	2	2	1	1	1	1	2
09 Jul 2026	2	2	2	1	1	1	1	2
10 Jul 2026	2	2	2	1	1	1	1	2
11 Jul 2026	2	2	2	1	1	1	1	2
12 Jul 2026	2	2	2	1	1	1	1	2
13 Jul 2026	2	2	2	1	1	1	1	2
14 Jul 2026	2	2	2	1	1	1	1	2
15 Jul 2026	2	2	2	1	1	1	1	2
16 Jul 2026	2	2	2	1	1	1	2	2
17 Jul 2026	2	2	2	1	1	1	2	2
18 Jul 2026	2	2	2	1	1	1	2	2
19 Jul 2026	2	2	2	1	1	1	2	2
20 Jul 2026	2	2	2	1	1	1	2	2
21 Jul 2026	2	2	2	1	1	1	2	2
22 Jul 2026	2	2	2	1	1	1	2	2
23 Jul 2026	2	2	2	1	1	1	2	2
24 Jul 2026	2	2	2	1	1	1	2	2
25 Jul 2026	2	2	2	1	1	1	2	2
26 Jul 2026	2	2	2	1	1	1	2	2
27 Jul 2026	2	2	2	1	1	1	2	2
28 Jul 2026	1	2	2	1	1	1	2	2
29 Jul 2026	1	2	2	1	1	1	2	2
30 Jul 2026	1	2	1	1	1	1	2	2
31 Jul 2026	1	2	1	1	1	1	2	2

* Geometric mean calculated using $n < 5$

Table 3.4

Summary of compliance at the PLOO 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	A1	A6	A7	C4	C5	C6	C7	C8
July	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.5

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

Station	Date	Time	Depth	Fecal	Entero
A1	06 Jul 2026	800	1	<2	<1
A1	06 Jul 2026	800	12	<2	<1
A1	06 Jul 2026	800	18	<2	<1
A1	16 Jul 2026	754	1	<2	<1
A1	16 Jul 2026	754	12	<2	<1
A1	16 Jul 2026	754	18	<2	1
A1	20 Jul 2026	818	1	<2	<1
A1	20 Jul 2026	818	12	<2	<1
A1	20 Jul 2026	818	18	<2	<1
A1	30 Jul 2026	806	1	<2	<1
A1	30 Jul 2026	806	12	<2	<1
A1	30 Jul 2026	806	18	<2	<1
A6	06 Jul 2026	843	1	<2	<1
A6	06 Jul 2026	843	12	<2	<1
A6	06 Jul 2026	843	18	<2	<1
A6	16 Jul 2026	832	1	<2	<1
A6	16 Jul 2026	832	12	<2	<1
A6	16 Jul 2026	832	18	<2	6
A6	20 Jul 2026	844	1	<2	<1
A6	20 Jul 2026	844	12	<2	<1
A6	20 Jul 2026	844	18	<2	1
A6	30 Jul 2026	832	1	<2	<1
A6	30 Jul 2026	832	12	4e	<1
A6	30 Jul 2026	832	18	6e	2
A7	06 Jul 2026	832	1	<2	<1
A7	06 Jul 2026	832	12	<2	<1
A7	06 Jul 2026	832	18	<2	<1
A7	16 Jul 2026	808	1	<2	<1
A7	16 Jul 2026	808	12	<2	6
A7	16 Jul 2026	808	18	2e	3
A7	20 Jul 2026	831	1	<2	<1
A7	20 Jul 2026	831	12	<2	<1
A7	20 Jul 2026	831	18	<2	<1
A7	30 Jul 2026	819	1	<2	<1
A7	30 Jul 2026	819	12	<2	<1
A7	30 Jul 2026	819	18	4e	<1
C4	06 Jul 2026	953	1	<2	<1
C4	06 Jul 2026	953	3	<2	<1
C4	06 Jul 2026	953	9	<2	<1
C4	16 Jul 2026	955	1	<2	<1
C4	16 Jul 2026	955	3	<2	<1
C4	16 Jul 2026	955	9	<2	<1

Station	Date	Time	Depth	Fecal	Entero
C4	20 Jul 2026	952	1	<2	<1
C4	20 Jul 2026	952	3	<2	<1
C4	20 Jul 2026	952	9	<2	<1
C4	30 Jul 2026	947	1	<2	<1
C4	30 Jul 2026	947	3	2e	<1
C4	30 Jul 2026	947	9	<2	<1
C5	06 Jul 2026	943	1	4e	<1
C5	06 Jul 2026	943	3	<2	<1
C5	06 Jul 2026	943	9	<2	<1
C5	16 Jul 2026	943	1	<2	<1
C5	16 Jul 2026	943	3	<2	<1
C5	16 Jul 2026	943	9	<2	<1
C5	20 Jul 2026	942	1	<2	<1
C5	20 Jul 2026	942	3	2e	1
C5	20 Jul 2026	942	9	<2	<1
C5	30 Jul 2026	937	1	<2	<1
C5	30 Jul 2026	937	3	<2	<1
C5	30 Jul 2026	937	9	<2	<1
C6	06 Jul 2026	933	1	<2	<1
C6	06 Jul 2026	933	3	<2	<1
C6	06 Jul 2026	933	9	<2	<1
C6	16 Jul 2026	924	1	<2	<1
C6	16 Jul 2026	924	3	<2	<1
C6	16 Jul 2026	924	9	<2	<1
C6	20 Jul 2026	931	1	4e	<1
C6	20 Jul 2026	931	3	2e	<1
C6	20 Jul 2026	931	9	4e	<1
C6	30 Jul 2026	924	1	<2	<1
C6	30 Jul 2026	924	3	<2	<1
C6	30 Jul 2026	924	9	<2	<1
C7	06 Jul 2026	903	1	<2	<1
C7	06 Jul 2026	903	12	<2	<1
C7	06 Jul 2026	903	18	<2	<1
C7	16 Jul 2026	850	1	<2	<1
C7	16 Jul 2026	850	12	<2	<1
C7	16 Jul 2026	850	18	<2	<20
C7	20 Jul 2026	858	1	<2	<1
C7	20 Jul 2026	858	12	<2	<1
C7	20 Jul 2026	858	18	<2	<1
C7	30 Jul 2026	855	1	<2	<1
C7	30 Jul 2026	855	12	<2	<1
C7	30 Jul 2026	855	18	2e	<1
C8	06 Jul 2026	914	1	<2	<1
C8	06 Jul 2026	914	12	<2	<1
C8	06 Jul 2026	914	18	<2	<1

Station	Date	Time	Depth	Fecal	Entero
C8	16 Jul 2026	901	1	<2	<1
C8	16 Jul 2026	901	12	<2	6
C8	16 Jul 2026	901	18	<2	1
C8	20 Jul 2026	910	1	2e	<1
C8	20 Jul 2026	910	12	<2	<1
C8	20 Jul 2026	910	18	<2	<1
C8	30 Jul 2026	906	1	<2	1
C8	30 Jul 2026	906	12	<2	<1
C8	30 Jul 2026	906	18	<2	<1

ns = not sampled

ND = no data

Table 3.6

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

Station	Date	Parameter	Value
A1	06 Jul 2026	Arrive Time	800
A1	06 Jul 2026	Depart Time	825
A1	06 Jul 2026	Air Temp (C)	20.8
A1	06 Jul 2026	Visibility (mi)	10
A1	06 Jul 2026	Wind Speed (kts)	2.4
A1	06 Jul 2026	Wind Dir	N
A1	06 Jul 2026	Sea State	Light Chop
A1	06 Jul 2026	High Tide Time	1448
A1	06 Jul 2026	Low Tide Time	748
A1	06 Jul 2026	Comments	25+ needed new battery; Kelp
A1	16 Jul 2026	Arrive Time	754
A1	16 Jul 2026	Depart Time	801
A1	16 Jul 2026	Air Temp (C)	20.4
A1	16 Jul 2026	Visibility (mi)	6
A1	16 Jul 2026	Wind Speed (kts)	5.8
A1	16 Jul 2026	Wind Dir	SE
A1	16 Jul 2026	Sea State	Rough
A1	16 Jul 2026	High Tide Time	2312
A1	16 Jul 2026	Low Tide Time	530
A1	16 Jul 2026	Comments	Kelp; Kelp debris
A1	20 Jul 2026	Arrive Time	818
A1	20 Jul 2026	Depart Time	827
A1	20 Jul 2026	Air Temp (C)	22
A1	20 Jul 2026	Visibility (mi)	10
A1	20 Jul 2026	Wind Speed (kts)	2.3
A1	20 Jul 2026	Wind Dir	NW
A1	20 Jul 2026	Sea State	Regular Swell
A1	20 Jul 2026	High Tide Time	1454
A1	20 Jul 2026	Low Tide Time	754
A1	20 Jul 2026	Comments	
A1	30 Jul 2026	Arrive Time	806
A1	30 Jul 2026	Depart Time	816
A1	30 Jul 2026	Air Temp (C)	20.3
A1	30 Jul 2026	Visibility (mi)	10
A1	30 Jul 2026	Wind Speed (kts)	0.7
A1	30 Jul 2026	Wind Dir	SE
A1	30 Jul 2026	Sea State	Calm
A1	30 Jul 2026	High Tide Time	2200
A1	30 Jul 2026	Low Tide Time	436
A1	30 Jul 2026	Comments	kelp on CTD at recovery; Kelp; Kelp Debris
C4	06 Jul 2026	Arrive Time	953
C4	06 Jul 2026	Depart Time	958
C4	06 Jul 2026	Air Temp (C)	21.1
C4	06 Jul 2026	Visibility (mi)	10
C4	06 Jul 2026	Wind Speed (kts)	5.2
C4	06 Jul 2026	Wind Dir	NW
C4	06 Jul 2026	Sea State	Light Chop
C4	06 Jul 2026	High Tide Time	1448
C4	06 Jul 2026	Low Tide Time	748
C4	06 Jul 2026	Comments	
C4	16 Jul 2026	Arrive Time	955

Station	Date	Parameter	Value
C4	16 Jul 2026	Depart Time	1003
C4	16 Jul 2026	Air Temp (C)	21
C4	16 Jul 2026	Visibility (mi)	6
C4	16 Jul 2026	Wind Speed (kts)	6.7
C4	16 Jul 2026	Wind Dir	S
C4	16 Jul 2026	Sea State	Rough
C4	16 Jul 2026	High Tide Time	2312
C4	16 Jul 2026	Low Tide Time	530
C4	16 Jul 2026	Comments	
C4	20 Jul 2026	Arrive Time	952
C4	20 Jul 2026	Depart Time	957
C4	20 Jul 2026	Air Temp (C)	23.5
C4	20 Jul 2026	Visibility (mi)	10
C4	20 Jul 2026	Wind Speed (kts)	3.5
C4	20 Jul 2026	Wind Dir	NW
C4	20 Jul 2026	Sea State	Regular Swell
C4	20 Jul 2026	High Tide Time	1454
C4	20 Jul 2026	Low Tide Time	754
C4	20 Jul 2026	Comments	
C4	30 Jul 2026	Arrive Time	947
C4	30 Jul 2026	Depart Time	955
C4	30 Jul 2026	Air Temp (C)	20.6
C4	30 Jul 2026	Visibility (mi)	10
C4	30 Jul 2026	Wind Speed (kts)	0
C4	30 Jul 2026	Wind Dir	SW
C4	30 Jul 2026	Sea State	Calm
C4	30 Jul 2026	High Tide Time	2200
C4	30 Jul 2026	Low Tide Time	436
C4	30 Jul 2026	Comments	Kelp Debris; Surfers
A7	06 Jul 2026	Arrive Time	832
A7	06 Jul 2026	Depart Time	838
A7	06 Jul 2026	Air Temp (C)	20.3
A7	06 Jul 2026	Visibility (mi)	10
A7	06 Jul 2026	Wind Speed (kts)	4.3
A7	06 Jul 2026	Wind Dir	N
A7	06 Jul 2026	Sea State	Light Chop
A7	06 Jul 2026	High Tide Time	1448
A7	06 Jul 2026	Low Tide Time	748
A7	06 Jul 2026	Comments	Kelp Debris
A7	16 Jul 2026	Arrive Time	808
A7	16 Jul 2026	Depart Time	822
A7	16 Jul 2026	Air Temp (C)	20.7
A7	16 Jul 2026	Visibility (mi)	6
A7	16 Jul 2026	Wind Speed (kts)	5.9
A7	16 Jul 2026	Wind Dir	S
A7	16 Jul 2026	Sea State	Rough
A7	16 Jul 2026	High Tide Time	2312
A7	16 Jul 2026	Low Tide Time	530
A7	16 Jul 2026	Comments	Kelp; Kelp debris
A7	20 Jul 2026	Arrive Time	831
A7	20 Jul 2026	Depart Time	836
A7	20 Jul 2026	Air Temp (C)	22.1
A7	20 Jul 2026	Visibility (mi)	10
A7	20 Jul 2026	Wind Speed (kts)	2.3
A7	20 Jul 2026	Wind Dir	NW
A7	20 Jul 2026	Sea State	Regular Swell

Station	Date	Parameter	Value
A7	20 Jul 2026	High Tide Time	1454
A7	20 Jul 2026	Low Tide Time	754
A7	20 Jul 2026	Comments	Kelp Debris
A7	30 Jul 2026	Arrive Time	819
A7	30 Jul 2026	Depart Time	826
A7	30 Jul 2026	Air Temp (C)	20.2
A7	30 Jul 2026	Visibility (mi)	10
A7	30 Jul 2026	Wind Speed (kts)	2.3
A7	30 Jul 2026	Wind Dir	SW
A7	30 Jul 2026	Sea State	Calm
A7	30 Jul 2026	High Tide Time	2200
A7	30 Jul 2026	Low Tide Time	436
A7	30 Jul 2026	Comments	kelp on CTD at recovery; Kelp; Kelp Debris
C5	06 Jul 2026	Arrive Time	943
C5	06 Jul 2026	Depart Time	947
C5	06 Jul 2026	Air Temp (C)	21
C5	06 Jul 2026	Visibility (mi)	10
C5	06 Jul 2026	Wind Speed (kts)	4.5
C5	06 Jul 2026	Wind Dir	NW
C5	06 Jul 2026	Sea State	Light Chop
C5	06 Jul 2026	High Tide Time	1448
C5	06 Jul 2026	Low Tide Time	748
C5	06 Jul 2026	Comments	
C5	16 Jul 2026	Arrive Time	943
C5	16 Jul 2026	Depart Time	946
C5	16 Jul 2026	Air Temp (C)	21
C5	16 Jul 2026	Visibility (mi)	6
C5	16 Jul 2026	Wind Speed (kts)	6.2
C5	16 Jul 2026	Wind Dir	S
C5	16 Jul 2026	Sea State	Rough
C5	16 Jul 2026	High Tide Time	2312
C5	16 Jul 2026	Low Tide Time	530
C5	16 Jul 2026	Comments	
C5	20 Jul 2026	Arrive Time	942
C5	20 Jul 2026	Depart Time	947
C5	20 Jul 2026	Air Temp (C)	24.4
C5	20 Jul 2026	Visibility (mi)	10
C5	20 Jul 2026	Wind Speed (kts)	2.8
C5	20 Jul 2026	Wind Dir	NW
C5	20 Jul 2026	Sea State	Regular Swell
C5	20 Jul 2026	High Tide Time	1454
C5	20 Jul 2026	Low Tide Time	754
C5	20 Jul 2026	Comments	
C5	30 Jul 2026	Arrive Time	937
C5	30 Jul 2026	Depart Time	942
C5	30 Jul 2026	Air Temp (C)	20.6
C5	30 Jul 2026	Visibility (mi)	10
C5	30 Jul 2026	Wind Speed (kts)	2.3
C5	30 Jul 2026	Wind Dir	W
C5	30 Jul 2026	Sea State	Calm
C5	30 Jul 2026	High Tide Time	2200
C5	30 Jul 2026	Low Tide Time	436
C5	30 Jul 2026	Comments	
A6	06 Jul 2026	Arrive Time	843
A6	06 Jul 2026	Depart Time	854

Station	Date	Parameter	Value
A6	06 Jul 2026	Air Temp (C)	20
A6	06 Jul 2026	Visibility (mi)	10
A6	06 Jul 2026	Wind Speed (kts)	4.9
A6	06 Jul 2026	Wind Dir	SW
A6	06 Jul 2026	Sea State	Light Chop
A6	06 Jul 2026	High Tide Time	1448
A6	06 Jul 2026	Low Tide Time	748
A6	06 Jul 2026	Comments	
A6	16 Jul 2026	Arrive Time	832
A6	16 Jul 2026	Depart Time	838
A6	16 Jul 2026	Air Temp (C)	21.1
A6	16 Jul 2026	Visibility (mi)	6
A6	16 Jul 2026	Wind Speed (kts)	7.3
A6	16 Jul 2026	Wind Dir	S
A6	16 Jul 2026	Sea State	Rough
A6	16 Jul 2026	High Tide Time	2312
A6	16 Jul 2026	Low Tide Time	530
A6	16 Jul 2026	Comments	
A6	20 Jul 2026	Arrive Time	844
A6	20 Jul 2026	Depart Time	848
A6	20 Jul 2026	Air Temp (C)	23.8
A6	20 Jul 2026	Visibility (mi)	10
A6	20 Jul 2026	Wind Speed (kts)	3
A6	20 Jul 2026	Wind Dir	NW
A6	20 Jul 2026	Sea State	Regular Swell
A6	20 Jul 2026	High Tide Time	1454
A6	20 Jul 2026	Low Tide Time	754
A6	20 Jul 2026	Comments	Kelp; Kelp Debris
A6	30 Jul 2026	Arrive Time	832
A6	30 Jul 2026	Depart Time	845
A6	30 Jul 2026	Air Temp (C)	20.1
A6	30 Jul 2026	Visibility (mi)	10
A6	30 Jul 2026	Wind Speed (kts)	5.9
A6	30 Jul 2026	Wind Dir	SW
A6	30 Jul 2026	Sea State	Calm
A6	30 Jul 2026	High Tide Time	2200
A6	30 Jul 2026	Low Tide Time	436
A6	30 Jul 2026	Comments	1st cast did not make depth; recast
C6	06 Jul 2026	Arrive Time	933
C6	06 Jul 2026	Depart Time	939
C6	06 Jul 2026	Air Temp (C)	21.2
C6	06 Jul 2026	Visibility (mi)	10
C6	06 Jul 2026	Wind Speed (kts)	3.9
C6	06 Jul 2026	Wind Dir	N
C6	06 Jul 2026	Sea State	Light Chop
C6	06 Jul 2026	High Tide Time	1448
C6	06 Jul 2026	Low Tide Time	748
C6	06 Jul 2026	Comments	
C6	16 Jul 2026	Arrive Time	924
C6	16 Jul 2026	Depart Time	927
C6	16 Jul 2026	Air Temp (C)	21.8
C6	16 Jul 2026	Visibility (mi)	6
C6	16 Jul 2026	Wind Speed (kts)	7.3
C6	16 Jul 2026	Wind Dir	S
C6	16 Jul 2026	Sea State	Rough
C6	16 Jul 2026	High Tide Time	2312

Station	Date	Parameter	Value
C6	16 Jul 2026	Low Tide Time	530
C6	16 Jul 2026	Comments	
C6	20 Jul 2026	Arrive Time	931
C6	20 Jul 2026	Depart Time	936
C6	20 Jul 2026	Air Temp (C)	24.3
C6	20 Jul 2026	Visibility (mi)	10
C6	20 Jul 2026	Wind Speed (kts)	2.7
C6	20 Jul 2026	Wind Dir	NW
C6	20 Jul 2026	Sea State	Regular Swell
C6	20 Jul 2026	High Tide Time	1454
C6	20 Jul 2026	Low Tide Time	754
C6	20 Jul 2026	Comments	
C6	30 Jul 2026	Arrive Time	924
C6	30 Jul 2026	Depart Time	930
C6	30 Jul 2026	Air Temp (C)	20.8
C6	30 Jul 2026	Visibility (mi)	10
C6	30 Jul 2026	Wind Speed (kts)	1.7
C6	30 Jul 2026	Wind Dir	SE
C6	30 Jul 2026	Sea State	Calm
C6	30 Jul 2026	High Tide Time	2200
C6	30 Jul 2026	Low Tide Time	436
C6	30 Jul 2026	Comments	
C7	06 Jul 2026	Arrive Time	903
C7	06 Jul 2026	Depart Time	908
C7	06 Jul 2026	Air Temp (C)	20.3
C7	06 Jul 2026	Visibility (mi)	10
C7	06 Jul 2026	Wind Speed (kts)	5
C7	06 Jul 2026	Wind Dir	N
C7	06 Jul 2026	Sea State	Light Chop
C7	06 Jul 2026	High Tide Time	1448
C7	06 Jul 2026	Low Tide Time	748
C7	06 Jul 2026	Comments	
C7	16 Jul 2026	Arrive Time	850
C7	16 Jul 2026	Depart Time	854
C7	16 Jul 2026	Air Temp (C)	21.5
C7	16 Jul 2026	Visibility (mi)	6
C7	16 Jul 2026	Wind Speed (kts)	7.9
C7	16 Jul 2026	Wind Dir	S
C7	16 Jul 2026	Sea State	Rough
C7	16 Jul 2026	High Tide Time	2312
C7	16 Jul 2026	Low Tide Time	530
C7	16 Jul 2026	Comments	
C7	20 Jul 2026	Arrive Time	858
C7	20 Jul 2026	Depart Time	902
C7	20 Jul 2026	Air Temp (C)	22.5
C7	20 Jul 2026	Visibility (mi)	10
C7	20 Jul 2026	Wind Speed (kts)	2.1
C7	20 Jul 2026	Wind Dir	NW
C7	20 Jul 2026	Sea State	Regular Swell
C7	20 Jul 2026	High Tide Time	1454
C7	20 Jul 2026	Low Tide Time	754
C7	20 Jul 2026	Comments	
C7	30 Jul 2026	Arrive Time	855
C7	30 Jul 2026	Depart Time	900
C7	30 Jul 2026	Air Temp (C)	20.5

Station	Date	Parameter	Value
C7	30 Jul 2026	Visibility (mi)	10
C7	30 Jul 2026	Wind Speed (kts)	0
C7	30 Jul 2026	Wind Dir	W
C7	30 Jul 2026	Sea State	Calm
C7	30 Jul 2026	High Tide Time	2200
C7	30 Jul 2026	Low Tide Time	436
C7	30 Jul 2026	Comments	Kelp; Kelp Debris; Seagrass
C8	06 Jul 2026	Arrive Time	914
C8	06 Jul 2026	Depart Time	920
C8	06 Jul 2026	Air Temp (C)	20.3
C8	06 Jul 2026	Visibility (mi)	10
C8	06 Jul 2026	Wind Speed (kts)	4.1
C8	06 Jul 2026	Wind Dir	NE
C8	06 Jul 2026	Sea State	Light Chop
C8	06 Jul 2026	High Tide Time	1448
C8	06 Jul 2026	Low Tide Time	748
C8	06 Jul 2026	Comments	
C8	16 Jul 2026	Arrive Time	901
C8	16 Jul 2026	Depart Time	906
C8	16 Jul 2026	Air Temp (C)	21.2
C8	16 Jul 2026	Visibility (mi)	6
C8	16 Jul 2026	Wind Speed (kts)	8.4
C8	16 Jul 2026	Wind Dir	S
C8	16 Jul 2026	Sea State	Rough
C8	16 Jul 2026	High Tide Time	2312
C8	16 Jul 2026	Low Tide Time	530
C8	16 Jul 2026	Comments	
C8	20 Jul 2026	Arrive Time	910
C8	20 Jul 2026	Depart Time	914
C8	20 Jul 2026	Air Temp (C)	23.6
C8	20 Jul 2026	Visibility (mi)	10
C8	20 Jul 2026	Wind Speed (kts)	2
C8	20 Jul 2026	Wind Dir	NW
C8	20 Jul 2026	Sea State	Regular Swell
C8	20 Jul 2026	High Tide Time	1454
C8	20 Jul 2026	Low Tide Time	754
C8	20 Jul 2026	Comments	
C8	30 Jul 2026	Arrive Time	906
C8	30 Jul 2026	Depart Time	912
C8	30 Jul 2026	Air Temp (C)	20.4
C8	30 Jul 2026	Visibility (mi)	10
C8	30 Jul 2026	Wind Speed (kts)	5.5
C8	30 Jul 2026	Wind Dir	W
C8	30 Jul 2026	Sea State	Calm
C8	30 Jul 2026	High Tide Time	2200
C8	30 Jul 2026	Low Tide Time	436
C8	30 Jul 2026	Comments	

Table 3.7

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

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)	CDOM (ppb)
A1	06 Jul 2026	1	20.03	91.64	7.9	33.46	8.2	23.6	0.87	0.74
A1	06 Jul 2026	2	19.48	91.66	8.0	33.45	8.2	23.7	0.93	0.72
A1	06 Jul 2026	3	19.38	91.60	8.0	33.44	8.2	23.7	1.04	0.73
A1	06 Jul 2026	4	19.32	91.62	8.0	33.43	8.2	23.7	1.13	0.74
A1	06 Jul 2026	5	18.40	91.59	7.8	33.47	8.1	24.0	1.16	0.74
A1	06 Jul 2026	6	17.70	92.07	7.8	33.42	8.1	24.1	1.23	0.78
A1	06 Jul 2026	7	17.08	92.63	7.6	33.43	8.1	24.3	1.23	0.80
A1	06 Jul 2026	8	15.65	92.48	7.4	33.41	8.1	24.6	1.32	0.81
A1	06 Jul 2026	9	15.36	93.79	7.3	33.38	8.0	24.6	1.44	0.84
A1	06 Jul 2026	10	15.54	94.06	7.2	33.38	8.0	24.6	1.50	0.84
A1	06 Jul 2026	11	15.47	94.08	7.0	33.39	8.0	24.6	1.58	0.85
A1	06 Jul 2026	12	15.05	94.10	7.0	33.41	8.0	24.7	1.53	0.89
A1	06 Jul 2026	13	14.61	93.93	6.7	33.41	8.0	24.8	1.33	0.90
A1	06 Jul 2026	14	14.38	93.70	6.5	33.41	8.0	24.9	1.32	0.94
A1	06 Jul 2026	15	14.17	94.06	6.2	33.43	8.0	24.9	1.23	0.95
A1	06 Jul 2026	16	13.71	94.44	6.0	33.43	7.9	25.0	1.01	0.99
A1	06 Jul 2026	17	13.63	94.47	5.8	33.41	7.9	25.0	0.99	0.97
A1	06 Jul 2026	18	13.47	94.35	5.6	33.43	7.9	25.1	0.88	1.00
A1	16 Jul 2026	1	21.00	87.86	8.3	33.46	8.2	23.3	1.39	0.81
A1	16 Jul 2026	2	20.82	87.87	8.3	33.47	8.2	23.4	1.35	0.81
A1	16 Jul 2026	3	20.10	87.77	8.7	33.48	8.2	23.6	1.43	0.85
A1	16 Jul 2026	4	19.86	87.86	8.8	33.45	8.2	23.6	1.51	0.89
A1	16 Jul 2026	5	19.85	87.43	8.8	33.44	8.2	23.6	1.62	0.89
A1	16 Jul 2026	6	19.75	87.35	8.8	33.44	8.2	23.6	1.63	0.92
A1	16 Jul 2026	7	19.68	87.76	8.9	33.44	8.2	23.7	1.76	0.90
A1	16 Jul 2026	8	19.64	87.99	8.8	33.43	8.2	23.7	1.90	0.92
A1	16 Jul 2026	9	19.62	88.04	8.8	33.43	8.2	23.7	2.20	0.94
A1	16 Jul 2026	10	19.53	87.87	8.8	33.44	8.2	23.7	2.19	0.92
A1	16 Jul 2026	11	19.37	87.74	8.8	33.44	8.2	23.7	2.43	0.92
A1	16 Jul 2026	12	19.20	87.40	8.7	33.44	8.2	23.8	2.93	0.95
A1	16 Jul 2026	13	18.99	86.73	8.7	33.43	8.2	23.8	3.81	0.98
A1	16 Jul 2026	14	18.54	85.28	8.4	33.44	8.2	23.9	4.99	0.97
A1	16 Jul 2026	15	17.23	83.65	8.1	33.47	8.2	24.3	6.48	1.01
A1	16 Jul 2026	16	16.48	84.81	7.8	33.42	8.1	24.4	4.80	1.07
A1	16 Jul 2026	17	16.14	88.21	7.4	33.40	8.1	24.5	2.76	1.09
A1	16 Jul 2026	18	15.89	91.92	7.2	33.39	8.1	24.5	1.85	1.09
A1	20 Jul 2026	1	21.52	88.67	7.6	33.45	8.2	23.2	1.37	0.88
A1	20 Jul 2026	2	21.53	88.59	7.6	33.45	8.2	23.2	1.36	0.88
A1	20 Jul 2026	3	21.52	88.82	7.5	33.45	8.2	23.2	1.42	0.88
A1	20 Jul 2026	4	21.44	88.87	7.5	33.45	8.2	23.2	1.46	0.88
A1	20 Jul 2026	5	21.32	88.57	7.5	33.45	8.2	23.2	1.46	0.90
A1	20 Jul 2026	6	21.27	88.70	7.5	33.44	8.2	23.2	1.52	0.89
A1	20 Jul 2026	7	21.22	88.92	7.5	33.44	8.2	23.2	1.53	0.89
A1	20 Jul 2026	8	21.11	89.15	7.5	33.44	8.2	23.3	1.59	0.88
A1	20 Jul 2026	9	21.05	89.47	7.5	33.44	8.2	23.3	1.62	0.88
A1	20 Jul 2026	10	21.02	89.35	7.4	33.44	8.2	23.3	1.70	0.92
A1	20 Jul 2026	11	20.98	89.18	7.4	33.44	8.2	23.3	1.73	0.90
A1	20 Jul 2026	12	20.93	86.96	7.4	33.44	8.2	23.3	1.79	0.91
A1	20 Jul 2026	13	20.53	87.41	7.5	33.43	8.2	23.4	2.06	0.88
A1	20 Jul 2026	14	19.90	87.14	7.4	33.42	8.2	23.6	2.35	0.89
A1	20 Jul 2026	15	19.24	88.35	7.2	33.41	8.2	23.7	1.99	0.92
A1	20 Jul 2026	16	18.69	90.02	6.9	33.40	8.1	23.9	1.56	0.97
A1	20 Jul 2026	17	17.66	90.96	6.9	33.41	8.1	24.1	1.21	0.99
A1	20 Jul 2026	18	16.53	91.26	7.3	33.40	8.1	24.4	1.20	1.01
A1	30 Jul 2026	1	22.33	93.01	7.2	33.48	8.0	23.0	0.58	0.76
A1	30 Jul 2026	2	22.29	92.89	7.2	33.48	8.0	23.0	0.59	0.75
A1	30 Jul 2026	3	21.95	92.70	7.2	33.48	8.0	23.1	0.71	0.77
A1	30 Jul 2026	4	20.75	91.79	7.3	33.47	8.0	23.4	0.92	0.79
A1	30 Jul 2026	5	19.11	90.22	7.6	33.43	8.0	23.8	1.40	0.85
A1	30 Jul 2026	6	18.13	88.77	7.8	33.39	8.0	24.0	1.81	0.86
A1	30 Jul 2026	7	17.13	88.47	8.0	33.36	8.0	24.2	2.21	0.86
A1	30 Jul 2026	8	16.72	88.22	8.0	33.33	8.0	24.3	2.68	0.87
A1	30 Jul 2026	9	15.48	87.28	8.0	33.31	8.0	24.6	3.72	0.87
A1	30 Jul 2026	10	15.35	86.28	8.0	33.29	8.0	24.6	3.30	0.86
A1	30 Jul 2026	11	15.40	86.76	7.8	33.33	8.0	24.6	2.34	0.88

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)	CDOM (ppb)
A1	30 Jul 2026	12	14.44	87.13	7.8	33.33	7.9	24.8	1.54	0.87
A1	30 Jul 2026	13	14.24	89.56	7.6	33.33	7.9	24.8	1.25	0.87
A1	30 Jul 2026	14	14.17	90.60	7.4	33.32	7.9	24.9	1.11	0.86
A1	30 Jul 2026	15	14.01	90.93	7.3	33.33	7.9	24.9	1.07	0.86
A1	30 Jul 2026	16	13.80	91.04	7.1	33.33	7.9	24.9	1.03	0.85
A1	30 Jul 2026	17	13.77	90.68	6.9	33.34	7.9	25.0	1.08	0.85
A1	30 Jul 2026	18	13.76	90.76	6.9	33.35	7.9	25.0	0.99	0.86
A1	30 Jul 2026	19	13.71	91.17	6.8	33.35	7.9	25.0	0.97	0.84
C4	06 Jul 2026	1	20.08	90.92	8.0	33.45	8.2	23.6	0.59	0.80
C4	06 Jul 2026	2	20.09	90.71	8.0	33.46	8.2	23.6	0.60	0.82
C4	06 Jul 2026	3	20.06	90.52	8.0	33.46	8.2	23.6	0.64	0.81
C4	06 Jul 2026	4	20.03	90.69	7.9	33.46	8.2	23.6	0.73	0.82
C4	06 Jul 2026	5	19.94	90.62	7.8	33.46	8.2	23.6	0.84	0.81
C4	06 Jul 2026	6	19.48	90.51	7.6	33.48	8.2	23.7	0.83	0.79
C4	06 Jul 2026	7	16.75	90.90	6.8	33.53	8.1	24.4	0.75	0.86
C4	06 Jul 2026	8	14.78	91.52	5.9	33.48	8.0	24.8	0.46	0.99
C4	06 Jul 2026	9	14.48	89.32	5.5	33.41	7.9	24.9	0.34	1.12
C4	06 Jul 2026	10	14.35	86.59	5.5	33.40	7.9	24.9	0.36	1.22
C4	16 Jul 2026	1	19.78	80.99	8.7	33.48	8.2	23.7	1.63	1.01
C4	16 Jul 2026	2	19.73	80.77	8.6	33.48	8.2	23.7	1.56	0.98
C4	16 Jul 2026	3	19.66	81.18	8.7	33.47	8.2	23.7	1.94	0.97
C4	16 Jul 2026	4	19.67	81.75	8.6	33.47	8.2	23.7	2.28	0.98
C4	16 Jul 2026	5	19.56	81.35	8.7	33.46	8.2	23.7	2.48	0.98
C4	16 Jul 2026	6	19.52	82.16	8.8	33.46	8.2	23.7	2.71	0.95
C4	16 Jul 2026	7	19.41	82.26	8.8	33.45	8.2	23.7	2.70	0.96
C4	16 Jul 2026	8	19.18	83.03	8.8	33.44	8.2	23.8	3.08	0.95
C4	16 Jul 2026	9	18.91	83.77	8.6	33.44	8.2	23.8	3.73	0.93
C4	16 Jul 2026	10	17.92	86.21	8.1	33.43	8.2	24.1	2.70	1.02
C4	16 Jul 2026	11	17.89	89.03	7.9	33.37	8.1	24.1	1.47	1.09
C4	20 Jul 2026	1	22.18	86.75	7.4	33.47	8.2	23.0	1.12	0.96
C4	20 Jul 2026	2	22.11	86.80	7.3	33.46	8.2	23.0	1.08	0.96
C4	20 Jul 2026	3	21.94	86.51	7.3	33.46	8.2	23.1	1.34	0.99
C4	20 Jul 2026	4	21.75	85.48	7.2	33.45	8.2	23.1	1.64	0.97
C4	20 Jul 2026	5	21.54	84.54	7.2	33.45	8.2	23.2	1.86	0.96
C4	20 Jul 2026	6	21.31	84.20	7.1	33.45	8.2	23.2	1.98	0.95
C4	20 Jul 2026	7	21.19	84.39	7.1	33.44	8.2	23.3	1.92	0.94
C4	20 Jul 2026	8	20.94	85.10	7.0	33.44	8.2	23.3	1.75	0.92
C4	20 Jul 2026	9	20.60	85.98	6.8	33.44	8.2	23.4	1.39	0.97
C4	20 Jul 2026	10	20.05	86.61	6.4	33.43	8.1	23.6	1.04	1.00
C4	20 Jul 2026	11	19.43	83.55	6.2	33.42	8.1	23.7	0.65	1.14
C4	30 Jul 2026	1	22.68	82.14	6.8	33.48	8.0	22.9	0.67	0.90
C4	30 Jul 2026	2	22.62	81.63	6.7	33.49	8.0	22.9	0.71	0.92
C4	30 Jul 2026	3	21.98	80.41	6.6	33.50	8.0	23.1	0.88	0.97
C4	30 Jul 2026	4	21.90	78.08	6.7	33.48	8.0	23.1	1.22	1.01
C4	30 Jul 2026	5	21.80	76.46	6.7	33.48	8.0	23.1	1.46	1.01
C4	30 Jul 2026	6	20.27	76.58	6.7	33.54	8.0	23.6	1.48	1.01
C4	30 Jul 2026	7	18.55	80.08	6.6	33.45	8.0	23.9	1.23	0.99
C4	30 Jul 2026	8	18.05	78.97	6.2	33.41	7.9	24.0	0.76	1.06
C4	30 Jul 2026	9	17.37	78.10	6.1	33.39	7.9	24.2	0.63	1.13
C4	30 Jul 2026	10	17.36	69.67	6.0	33.37	7.9	24.2	0.61	1.19
A7	06 Jul 2026	1	20.04	91.18	8.0	33.46	8.2	23.6	0.85	0.72
A7	06 Jul 2026	2	20.00	90.81	8.0	33.46	8.2	23.6	0.91	0.71
A7	06 Jul 2026	3	19.88	91.25	7.9	33.46	8.2	23.6	0.96	0.71
A7	06 Jul 2026	4	19.82	91.58	8.0	33.46	8.2	23.6	1.07	0.73
A7	06 Jul 2026	5	19.73	91.83	8.0	33.46	8.2	23.7	1.05	0.72
A7	06 Jul 2026	6	19.62	91.91	8.1	33.46	8.2	23.7	1.03	0.73
A7	06 Jul 2026	7	19.46	92.12	8.0	33.45	8.2	23.7	1.07	0.71
A7	06 Jul 2026	8	19.35	92.45	8.0	33.44	8.2	23.7	0.99	0.71
A7	06 Jul 2026	9	18.75	92.80	7.9	33.48	8.2	23.9	1.03	0.71
A7	06 Jul 2026	10	18.05	93.03	7.9	33.44	8.1	24.1	1.14	0.76
A7	06 Jul 2026	11	17.93	92.81	7.8	33.44	8.1	24.1	1.26	0.77
A7	06 Jul 2026	12	17.63	92.95	7.8	33.42	8.1	24.2	1.22	0.79
A7	06 Jul 2026	13	16.99	93.17	7.5	33.45	8.1	24.3	1.19	0.80
A7	06 Jul 2026	14	15.86	93.82	7.3	33.43	8.1	24.6	0.81	0.83
A7	06 Jul 2026	15	15.04	94.72	7.1	33.42	8.0	24.7	0.53	0.90
A7	06 Jul 2026	16	14.62	94.68	6.8	33.44	8.0	24.8	0.54	0.90
A7	06 Jul 2026	17	14.11	94.90	6.6	33.41	8.0	24.9	0.60	0.89
A7	06 Jul 2026	18	14.10	95.10	6.4	33.41	8.0	24.9	0.64	0.89

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)	CDOM (ppb)
A7	16 Jul 2026	1	21.31	89.07	8.1	33.46	8.2	23.2	1.16	0.76
A7	16 Jul 2026	2	21.14	88.94	8.2	33.47	8.2	23.3	1.18	0.75
A7	16 Jul 2026	3	21.05	88.79	8.2	33.46	8.2	23.3	1.24	0.78
A7	16 Jul 2026	4	20.95	88.61	8.3	33.46	8.2	23.3	1.36	0.79
A7	16 Jul 2026	5	20.88	88.38	8.4	33.46	8.2	23.4	1.42	0.81
A7	16 Jul 2026	6	20.69	88.34	8.4	33.46	8.2	23.4	1.49	0.81
A7	16 Jul 2026	7	20.14	88.27	8.5	33.48	8.2	23.6	1.69	0.82
A7	16 Jul 2026	8	18.87	88.08	8.8	33.50	8.2	23.9	1.74	0.88
A7	16 Jul 2026	9	18.45	87.71	8.9	33.47	8.2	24.0	2.17	0.96
A7	16 Jul 2026	10	17.56	87.67	8.8	33.46	8.2	24.2	2.56	0.99
A7	16 Jul 2026	11	17.15	87.57	8.7	33.43	8.2	24.3	2.98	1.00
A7	16 Jul 2026	12	16.91	88.40	8.6	33.41	8.2	24.3	2.85	1.02
A7	16 Jul 2026	13	16.78	90.47	8.3	33.41	8.1	24.3	2.43	1.01
A7	16 Jul 2026	14	16.76	91.88	8.0	33.40	8.1	24.3	1.77	1.04
A7	16 Jul 2026	15	16.73	91.83	7.8	33.39	8.1	24.3	1.62	1.03
A7	16 Jul 2026	16	16.59	92.14	7.6	33.40	8.1	24.4	1.47	1.04
A7	16 Jul 2026	17	16.14	92.90	7.4	33.43	8.1	24.5	1.26	1.05
A7	16 Jul 2026	18	15.39	93.78	7.4	33.43	8.1	24.7	1.27	1.02
A7	16 Jul 2026	19	15.16	94.59	7.3	33.37	8.1	24.7	1.19	1.01
A7	20 Jul 2026	1	21.84	89.88	7.8	33.45	8.2	23.1	1.06	0.76
A7	20 Jul 2026	2	21.78	89.78	7.8	33.45	8.2	23.1	0.99	0.76
A7	20 Jul 2026	3	21.69	89.85	7.7	33.45	8.2	23.1	1.01	0.77
A7	20 Jul 2026	4	21.68	90.44	7.7	33.45	8.2	23.1	1.04	0.78
A7	20 Jul 2026	5	21.68	90.63	7.8	33.45	8.2	23.1	1.00	0.77
A7	20 Jul 2026	6	21.66	90.65	7.7	33.45	8.2	23.1	1.04	0.76
A7	20 Jul 2026	7	21.61	90.66	7.7	33.45	8.2	23.1	0.96	0.77
A7	20 Jul 2026	8	21.55	91.37	7.7	33.45	8.2	23.2	0.88	0.77
A7	20 Jul 2026	9	21.40	91.59	7.5	33.44	8.2	23.2	0.93	0.75
A7	20 Jul 2026	10	20.95	92.62	7.5	33.44	8.2	23.3	0.95	0.76
A7	20 Jul 2026	11	20.75	92.81	7.5	33.43	8.2	23.4	0.88	0.82
A7	20 Jul 2026	12	20.25	93.24	7.5	33.42	8.2	23.5	0.95	0.84
A7	20 Jul 2026	13	19.64	93.09	7.7	33.41	8.2	23.6	1.27	0.85
A7	20 Jul 2026	14	19.52	92.91	7.8	33.40	8.2	23.7	1.85	0.85
A7	20 Jul 2026	15	19.22	92.27	7.7	33.40	8.2	23.7	1.92	0.86
A7	20 Jul 2026	16	19.02	91.85	7.7	33.40	8.2	23.8	1.86	0.86
A7	20 Jul 2026	17	19.11	91.97	7.7	33.40	8.2	23.8	1.64	0.86
A7	20 Jul 2026	18	18.39	92.26	7.6	33.39	8.2	23.9	1.71	0.87
A7	20 Jul 2026	19	17.52	92.61	7.8	33.37	8.1	24.1	1.15	0.84
A7	30 Jul 2026	1	22.64	95.32	7.0	33.52	8.0	22.9	0.40	0.68
A7	30 Jul 2026	2	22.53	94.66	7.0	33.51	8.0	22.9	0.44	0.70
A7	30 Jul 2026	3	22.42	93.92	7.0	33.51	8.0	23.0	0.50	0.74
A7	30 Jul 2026	4	22.08	92.53	7.1	33.51	8.0	23.1	0.64	0.78
A7	30 Jul 2026	5	21.45	90.96	7.2	33.50	8.0	23.2	0.72	0.79
A7	30 Jul 2026	6	20.94	90.71	7.2	33.48	8.0	23.4	0.75	0.80
A7	30 Jul 2026	7	20.80	90.79	7.3	33.46	8.0	23.4	0.83	0.80
A7	30 Jul 2026	8	20.79	91.04	7.3	33.45	8.0	23.4	0.86	0.81
A7	30 Jul 2026	9	20.72	91.00	7.2	33.46	8.0	23.4	0.87	0.81
A7	30 Jul 2026	10	18.55	90.59	7.3	33.57	8.0	24.0	1.07	0.83
A7	30 Jul 2026	11	16.23	90.20	7.8	33.47	8.0	24.5	2.07	0.85
A7	30 Jul 2026	12	14.86	88.72	8.0	33.39	8.0	24.8	3.50	0.85
A7	30 Jul 2026	13	14.67	88.25	7.9	33.34	8.0	24.8	3.21	0.83
A7	30 Jul 2026	14	14.46	89.97	7.9	33.33	8.0	24.8	2.09	0.81
A7	30 Jul 2026	15	14.49	91.15	7.9	33.33	8.0	24.8	1.61	0.81
A7	30 Jul 2026	16	14.37	92.17	7.8	33.33	8.0	24.8	1.52	0.81
A7	30 Jul 2026	17	14.32	93.00	7.8	33.34	8.0	24.8	1.29	0.81
A7	30 Jul 2026	18	14.06	93.27	7.6	33.35	8.0	24.9	1.08	0.81
A7	30 Jul 2026	19	13.85	93.34	7.4	33.36	7.9	24.9	1.05	0.82
C5	06 Jul 2026	1	20.18	90.95	7.7	33.46	8.2	23.5	0.56	0.78
C5	06 Jul 2026	2	20.15	91.04	7.7	33.47	8.2	23.6	0.57	0.78
C5	06 Jul 2026	3	20.05	91.13	7.7	33.47	8.2	23.6	0.63	0.78
C5	06 Jul 2026	4	19.43	90.90	7.8	33.49	8.2	23.8	0.70	0.79
C5	06 Jul 2026	5	18.75	91.23	8.0	33.46	8.2	23.9	0.90	0.79
C5	06 Jul 2026	6	17.99	91.87	8.1	33.44	8.2	24.1	1.20	0.77
C5	06 Jul 2026	7	17.35	92.25	8.2	33.44	8.2	24.2	1.18	0.80
C5	06 Jul 2026	8	17.10	92.83	8.2	33.41	8.2	24.3	0.90	0.85
C5	06 Jul 2026	9	16.63	92.55	8.2	33.43	8.1	24.4	0.65	0.92
C5	06 Jul 2026	10	15.76	92.12	7.9	33.41	8.1	24.6	0.54	0.97
C5	06 Jul 2026	11	15.56	92.22	7.8	33.38	8.1	24.6	0.46	1.00
C5	16 Jul 2026	1	20.10	86.92	8.3	33.44	8.2	23.5	1.46	0.92
C5	16 Jul 2026	2	20.07	87.00	8.3	33.45	8.2	23.6	1.49	0.92

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)	CDOM (ppb)
C5	16 Jul 2026	3	19.76	86.99	8.2	33.44	8.2	23.6	1.56	0.93
C5	16 Jul 2026	4	19.43	86.86	8.3	33.45	8.2	23.7	1.95	0.96
C5	16 Jul 2026	5	19.36	87.74	8.4	33.44	8.2	23.7	2.06	0.97
C5	16 Jul 2026	6	19.26	88.04	8.3	33.43	8.2	23.8	2.03	0.99
C5	16 Jul 2026	7	19.24	87.93	8.3	33.43	8.2	23.8	1.95	1.00
C5	16 Jul 2026	8	19.25	88.18	8.3	33.43	8.2	23.8	1.85	1.01
C5	16 Jul 2026	9	19.13	88.13	8.3	33.43	8.2	23.8	1.87	1.02
C5	16 Jul 2026	10	19.04	88.77	8.3	33.43	8.2	23.8	1.64	1.01
C5	20 Jul 2026	1	22.54	85.41	7.3	33.47	8.2	22.9	0.69	0.99
C5	20 Jul 2026	2	22.33	85.73	7.4	33.48	8.2	23.0	0.70	0.99
C5	20 Jul 2026	3	22.07	87.18	7.6	33.47	8.2	23.0	0.83	0.95
C5	20 Jul 2026	4	21.80	88.76	7.7	33.46	8.2	23.1	0.98	0.89
C5	20 Jul 2026	5	21.74	89.16	7.7	33.45	8.2	23.1	1.07	0.86
C5	20 Jul 2026	6	21.62	89.68	7.6	33.45	8.2	23.1	1.12	0.87
C5	20 Jul 2026	7	21.53	89.85	7.6	33.45	8.2	23.2	1.11	0.85
C5	20 Jul 2026	8	21.44	90.45	7.4	33.44	8.2	23.2	1.04	0.84
C5	20 Jul 2026	9	21.37	91.35	7.3	33.45	8.2	23.2	0.87	0.89
C5	30 Jul 2026	1	22.96	91.73	6.9	33.53	8.0	22.8	0.26	0.69
C5	30 Jul 2026	2	22.80	91.83	6.8	33.53	8.0	22.9	0.26	0.71
C5	30 Jul 2026	3	22.59	91.12	6.8	33.52	8.0	22.9	0.30	0.75
C5	30 Jul 2026	4	22.52	89.61	6.8	33.52	8.0	22.9	0.36	0.78
C5	30 Jul 2026	5	22.33	88.61	6.8	33.51	8.0	23.0	0.40	0.82
C5	30 Jul 2026	6	21.94	88.03	6.6	33.52	8.0	23.1	0.44	0.81
C5	30 Jul 2026	7	20.61	87.02	6.6	33.51	8.0	23.5	0.43	0.87
C5	30 Jul 2026	8	18.41	86.29	6.8	33.47	8.0	24.0	0.46	0.93
C5	30 Jul 2026	9	17.90	86.32	6.9	33.42	8.0	24.1	0.48	0.97
C5	30 Jul 2026	10	16.91	85.03	7.2	33.41	8.0	24.3	0.56	1.00
C5	30 Jul 2026	11	16.58	81.31	7.4	33.38	8.0	24.4	0.66	0.95
A6	06 Jul 2026	1	19.75	92.71	8.2	33.45	8.2	23.6	0.74	0.69
A6	06 Jul 2026	2	19.73	92.68	8.2	33.45	8.2	23.6	0.78	0.70
A6	06 Jul 2026	3	19.54	92.75	8.2	33.45	8.2	23.7	0.78	0.70
A6	06 Jul 2026	4	19.43	92.96	8.2	33.44	8.2	23.7	0.80	0.70
A6	06 Jul 2026	5	19.31	93.12	8.2	33.44	8.2	23.8	0.89	0.69
A6	06 Jul 2026	6	19.13	93.37	8.2	33.43	8.2	23.8	0.96	0.70
A6	06 Jul 2026	7	19.07	93.47	8.2	33.43	8.2	23.8	1.00	0.71
A6	06 Jul 2026	8	18.97	93.23	8.2	33.43	8.2	23.8	1.06	0.71
A6	06 Jul 2026	9	18.58	93.55	8.1	33.43	8.2	23.9	1.05	0.71
A6	06 Jul 2026	10	18.05	93.56	8.2	33.41	8.2	24.0	1.15	0.74
A6	06 Jul 2026	11	17.52	93.61	8.1	33.44	8.2	24.2	1.24	0.75
A6	06 Jul 2026	12	16.86	93.68	7.9	33.41	8.1	24.3	1.36	0.77
A6	06 Jul 2026	13	16.82	94.15	7.9	33.39	8.1	24.3	1.20	0.79
A6	06 Jul 2026	14	16.64	94.44	7.7	33.40	8.1	24.4	1.14	0.79
A6	06 Jul 2026	15	16.51	94.59	7.7	33.39	8.1	24.4	0.97	0.80
A6	06 Jul 2026	16	16.09	94.82	7.5	33.41	8.1	24.5	0.94	0.81
A6	06 Jul 2026	17	15.52	95.20	7.3	33.39	8.0	24.6	0.73	0.84
A6	06 Jul 2026	18	16.03	94.94	7.2	33.33	8.1	24.5	0.78	0.84
A6	16 Jul 2026	1	21.49	88.23	8.3	33.47	8.3	23.2	1.24	0.75
A6	16 Jul 2026	2	21.50	88.19	8.2	33.47	8.3	23.2	1.25	0.77
A6	16 Jul 2026	3	21.51	88.19	8.3	33.47	8.3	23.2	1.32	0.75
A6	16 Jul 2026	4	21.50	88.36	8.2	33.48	8.3	23.2	1.38	0.78
A6	16 Jul 2026	5	21.50	88.21	8.2	33.48	8.3	23.2	1.39	0.78
A6	16 Jul 2026	6	21.44	88.11	8.2	33.47	8.3	23.2	1.47	0.77
A6	16 Jul 2026	7	20.40	87.77	8.3	33.48	8.3	23.5	1.51	0.78
A6	16 Jul 2026	8	19.43	88.34	8.7	33.47	8.2	23.7	1.55	0.87
A6	16 Jul 2026	9	19.09	88.99	8.9	33.46	8.2	23.8	1.63	0.95
A6	16 Jul 2026	10	18.83	88.61	8.8	33.44	8.2	23.9	1.82	0.95
A6	16 Jul 2026	11	18.42	88.88	8.9	33.44	8.2	24.0	2.08	0.93
A6	16 Jul 2026	12	18.08	89.19	8.8	33.44	8.2	24.1	2.33	0.94
A6	16 Jul 2026	13	17.52	89.70	8.6	33.43	8.2	24.2	2.55	0.97
A6	16 Jul 2026	14	17.17	91.15	8.2	33.41	8.2	24.3	2.23	0.98
A6	16 Jul 2026	15	16.16	92.48	8.1	33.43	8.2	24.5	1.85	0.99
A6	16 Jul 2026	16	16.08	93.40	7.8	33.38	8.1	24.5	1.71	0.98
A6	16 Jul 2026	17	14.94	93.98	7.6	33.43	8.1	24.8	1.65	0.98
A6	16 Jul 2026	18	14.70	94.65	7.4	33.38	8.1	24.8	1.38	0.99
A6	20 Jul 2026	1	21.79	94.66	7.7	33.45	8.2	23.1	0.38	0.71
A6	20 Jul 2026	2	21.78	94.99	7.8	33.45	8.2	23.1	0.36	0.70
A6	20 Jul 2026	3	21.73	94.83	7.8	33.45	8.2	23.1	0.50	0.72
A6	20 Jul 2026	4	21.72	94.45	7.8	33.45	8.2	23.1	0.52	0.71
A6	20 Jul 2026	5	21.69	94.58	7.8	33.45	8.2	23.1	0.49	0.71

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)	CDOM (ppb)
A6	20 Jul 2026	6	21.63	94.75	7.7	33.45	8.2	23.1	0.55	0.72
A6	20 Jul 2026	7	21.56	94.36	7.8	33.45	8.2	23.2	0.63	0.72
A6	20 Jul 2026	8	21.49	93.69	7.8	33.45	8.2	23.2	0.73	0.75
A6	20 Jul 2026	9	21.32	93.06	7.7	33.44	8.2	23.2	0.88	0.74
A6	20 Jul 2026	10	20.78	93.11	7.8	33.44	8.2	23.4	1.04	0.77
A6	20 Jul 2026	11	20.31	93.07	7.9	33.42	8.2	23.5	1.33	0.80
A6	20 Jul 2026	12	19.86	91.44	7.9	33.42	8.2	23.6	1.80	0.84
A6	20 Jul 2026	13	19.72	90.76	7.7	33.41	8.2	23.6	1.45	0.86
A6	20 Jul 2026	14	19.13	91.49	7.6	33.39	8.2	23.8	1.25	0.88
A6	20 Jul 2026	15	18.18	92.70	7.7	33.39	8.2	24.0	1.07	0.90
A6	20 Jul 2026	16	17.87	93.09	7.8	33.37	8.2	24.1	0.89	0.92
A6	20 Jul 2026	17	16.82	93.58	7.8	33.37	8.2	24.3	0.87	0.92
A6	20 Jul 2026	18	15.96	94.15	7.9	33.36	8.1	24.5	0.88	0.93
A6	20 Jul 2026	19	15.82	94.29	8.0	33.36	8.1	24.5	1.02	0.95
A6	30 Jul 2026	1	22.92	90.34	7.0	33.50	8.0	22.8	0.55	0.78
A6	30 Jul 2026	2	22.86	90.38	6.9	33.52	8.0	22.9	0.57	0.80
A6	30 Jul 2026	3	21.23	90.31	7.1	33.60	8.0	23.4	0.62	0.77
A6	30 Jul 2026	4	19.52	90.45	7.4	33.55	8.0	23.8	0.70	0.78
A6	30 Jul 2026	5	19.17	91.48	7.4	33.47	8.0	23.8	0.95	0.81
A6	30 Jul 2026	6	18.62	89.86	7.3	33.51	8.0	24.0	1.12	0.84
A6	30 Jul 2026	7	16.91	87.97	7.8	33.53	8.0	24.4	1.71	0.84
A6	30 Jul 2026	8	16.02	86.17	8.0	33.41	8.0	24.5	3.35	0.84
A6	30 Jul 2026	9	15.80	86.54	7.8	33.38	8.0	24.5	3.56	0.85
A6	30 Jul 2026	10	15.83	88.04	7.8	33.38	8.0	24.5	3.14	0.86
A6	30 Jul 2026	11	15.64	87.42	7.8	33.34	8.0	24.6	2.87	0.84
A6	30 Jul 2026	12	15.61	88.20	7.9	33.35	8.0	24.6	2.48	0.86
A6	30 Jul 2026	13	14.92	89.74	8.0	33.37	8.0	24.7	2.27	0.83
A6	30 Jul 2026	14	14.61	91.02	8.0	33.34	8.0	24.8	1.88	0.84
A6	30 Jul 2026	15	14.36	91.86	7.9	33.34	8.0	24.8	1.43	0.84
A6	30 Jul 2026	16	14.26	92.57	7.7	33.34	8.0	24.8	1.30	0.84
A6	30 Jul 2026	17	14.09	92.82	7.5	33.34	8.0	24.9	1.27	0.84
A6	30 Jul 2026	18	13.87	92.54	7.2	33.35	7.9	24.9	1.30	0.84
A6	30 Jul 2026	19	13.82	91.96	7.1	33.35	7.9	25.0	1.37	0.84
A6	30 Jul 2026	20	13.77	91.38	7.0	33.36	7.9	25.0	1.39	0.85
C6	06 Jul 2026	1	20.23	90.53	8.0	33.46	8.2	23.5	0.82	0.78
C6	06 Jul 2026	2	20.22	90.40	8.0	33.47	8.2	23.5	0.92	0.78
C6	06 Jul 2026	3	20.15	90.66	8.0	33.47	8.2	23.6	0.99	0.79
C6	06 Jul 2026	4	19.99	90.56	7.8	33.47	8.2	23.6	1.05	0.78
C6	06 Jul 2026	5	19.55	90.71	7.8	33.49	8.2	23.7	1.02	0.81
C6	06 Jul 2026	6	18.93	91.21	8.1	33.45	8.2	23.9	1.20	0.78
C6	06 Jul 2026	7	18.89	91.92	8.0	33.44	8.2	23.9	1.45	0.76
C6	06 Jul 2026	8	17.52	92.03	7.7	33.44	8.2	24.2	1.55	0.77
C6	06 Jul 2026	9	16.03	92.39	7.6	33.48	8.1	24.6	1.07	0.83
C6	16 Jul 2026	1	20.96	86.91	8.4	33.47	8.3	23.3	0.89	0.88
C6	16 Jul 2026	2	20.95	87.02	8.4	33.47	8.3	23.3	0.89	0.88
C6	16 Jul 2026	3	20.95	87.34	8.4	33.47	8.3	23.3	0.99	0.88
C6	16 Jul 2026	4	20.91	87.40	8.3	33.47	8.3	23.4	1.16	0.86
C6	16 Jul 2026	5	20.49	87.80	8.2	33.47	8.3	23.5	1.34	0.86
C6	16 Jul 2026	6	20.17	89.31	8.0	33.48	8.2	23.6	1.21	0.96
C6	16 Jul 2026	7	18.95	91.42	7.8	33.49	8.2	23.9	0.89	1.04
C6	16 Jul 2026	8	18.34	92.31	7.7	33.47	8.2	24.0	0.61	1.07
C6	16 Jul 2026	9	17.52	91.77	7.8	33.45	8.1	24.2	0.55	1.07
C6	20 Jul 2026	1	22.13	89.04	7.8	33.47	8.2	23.0	0.75	0.89
C6	20 Jul 2026	2	21.99	88.85	7.7	33.47	8.2	23.1	0.69	0.80
C6	20 Jul 2026	3	21.79	91.36	7.7	33.46	8.2	23.1	0.63	0.77
C6	20 Jul 2026	4	21.75	92.46	7.7	33.45	8.2	23.1	0.62	0.74
C6	20 Jul 2026	5	21.70	93.60	7.7	33.45	8.2	23.1	0.62	0.74
C6	20 Jul 2026	6	21.65	93.38	7.6	33.45	8.2	23.1	0.63	0.74
C6	20 Jul 2026	7	21.58	93.49	7.6	33.45	8.2	23.2	0.74	0.75
C6	20 Jul 2026	8	21.44	93.25	7.5	33.45	8.2	23.2	0.84	0.79
C6	20 Jul 2026	9	20.80	92.51	7.4	33.46	8.2	23.4	0.68	0.88
C6	30 Jul 2026	1	22.97	76.74	6.3	33.51	8.0	22.8	0.60	1.00
C6	30 Jul 2026	2	22.96	76.26	6.3	33.51	8.0	22.8	0.63	1.02
C6	30 Jul 2026	3	22.87	75.64	6.3	33.52	8.0	22.8	0.71	1.04
C6	30 Jul 2026	4	22.39	74.93	6.2	33.55	8.0	23.0	0.78	1.06
C6	30 Jul 2026	5	19.27	73.60	7.0	33.57	8.0	23.9	0.72	1.04
C6	30 Jul 2026	6	18.86	77.27	7.4	33.43	8.0	23.9	0.69	0.98
C6	30 Jul 2026	7	18.22	82.73	7.3	33.42	8.0	24.0	0.88	0.95
C6	30 Jul 2026	8	17.84	84.89	7.5	33.40	8.0	24.1	1.04	0.91

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)	CDOM (ppb)
C6	30 Jul 2026	9	17.65	85.42	7.4	33.39	8.0	24.1	0.94	0.90
C6	30 Jul 2026	10	16.93	87.12	7.4	33.41	8.0	24.3	0.80	0.91
C7	06 Jul 2026	1	20.32	91.04	8.1	33.47	8.2	23.5	0.80	0.69
C7	06 Jul 2026	2	20.22	90.75	8.2	33.48	8.2	23.5	0.88	0.69
C7	06 Jul 2026	3	19.91	90.89	8.3	33.48	8.2	23.6	0.88	0.68
C7	06 Jul 2026	4	19.73	91.63	8.3	33.46	8.2	23.7	0.92	0.68
C7	06 Jul 2026	5	19.53	92.29	8.4	33.45	8.2	23.7	0.94	0.69
C7	06 Jul 2026	6	19.49	92.72	8.3	33.44	8.2	23.7	0.99	0.68
C7	06 Jul 2026	7	19.38	92.90	8.4	33.44	8.2	23.7	0.99	0.68
C7	06 Jul 2026	8	19.35	93.09	8.4	33.43	8.2	23.7	0.99	0.68
C7	06 Jul 2026	9	19.30	93.16	8.4	33.43	8.2	23.7	1.01	0.67
C7	06 Jul 2026	10	19.15	93.35	8.3	33.43	8.2	23.8	0.96	0.68
C7	06 Jul 2026	11	18.72	93.71	8.4	33.42	8.2	23.9	0.91	0.68
C7	06 Jul 2026	12	18.04	94.18	8.6	33.43	8.2	24.1	0.96	0.70
C7	06 Jul 2026	13	17.76	93.90	8.7	33.39	8.2	24.1	1.13	0.72
C7	06 Jul 2026	14	17.65	93.73	8.6	33.38	8.2	24.1	1.20	0.73
C7	06 Jul 2026	15	17.51	93.48	8.6	33.38	8.2	24.2	1.25	0.74
C7	06 Jul 2026	16	17.28	92.94	8.5	33.41	8.2	24.2	1.42	0.76
C7	06 Jul 2026	17	16.14	93.41	8.2	33.41	8.1	24.5	1.18	0.79
C7	06 Jul 2026	18	15.93	94.92	7.9	33.33	8.1	24.5	0.67	0.84
C7	16 Jul 2026	1	21.57	87.73	8.2	33.46	8.2	23.2	0.93	0.75
C7	16 Jul 2026	2	21.63	88.06	8.2	33.46	8.2	23.2	0.95	0.76
C7	16 Jul 2026	3	21.63	88.14	8.1	33.47	8.2	23.2	1.01	0.75
C7	16 Jul 2026	4	21.31	88.39	8.1	33.48	8.2	23.3	1.17	0.75
C7	16 Jul 2026	5	19.95	88.96	8.3	33.47	8.2	23.6	1.29	0.77
C7	16 Jul 2026	6	19.11	91.98	8.5	33.45	8.2	23.8	1.05	0.76
C7	16 Jul 2026	7	18.79	93.43	8.7	33.42	8.2	23.9	1.04	0.76
C7	16 Jul 2026	8	18.00	93.48	8.8	33.42	8.2	24.1	1.20	0.81
C7	16 Jul 2026	9	17.47	92.42	8.9	33.42	8.2	24.2	1.65	0.87
C7	16 Jul 2026	10	16.98	92.46	8.8	33.43	8.2	24.3	2.13	0.88
C7	16 Jul 2026	11	16.23	91.81	8.4	33.43	8.2	24.5	2.60	0.91
C7	16 Jul 2026	12	15.49	91.94	8.1	33.41	8.1	24.6	3.05	0.95
C7	16 Jul 2026	13	15.32	92.96	7.8	33.39	8.1	24.7	2.46	0.97
C7	16 Jul 2026	14	15.04	93.35	7.3	33.39	8.1	24.7	2.14	0.99
C7	16 Jul 2026	15	14.56	94.64	7.0	33.39	8.0	24.8	1.28	1.00
C7	16 Jul 2026	16	14.47	95.52	6.8	33.39	8.0	24.8	0.64	0.99
C7	16 Jul 2026	17	14.41	95.44	6.8	33.38	8.0	24.9	0.60	0.98
C7	16 Jul 2026	18	14.40	95.54	6.8	33.38	8.0	24.9	0.57	0.98
C7	20 Jul 2026	1	22.44	88.28	7.9	33.48	8.2	22.9	0.94	0.81
C7	20 Jul 2026	2	22.26	88.21	7.9	33.48	8.2	23.0	0.98	0.82
C7	20 Jul 2026	3	21.81	88.13	8.0	33.47	8.2	23.1	1.02	0.82
C7	20 Jul 2026	4	21.43	89.14	8.0	33.45	8.2	23.2	1.03	0.80
C7	20 Jul 2026	5	21.29	91.08	8.0	33.44	8.2	23.2	1.01	0.81
C7	20 Jul 2026	6	21.22	91.79	8.0	33.44	8.2	23.2	1.07	0.80
C7	20 Jul 2026	7	21.00	91.80	8.0	33.44	8.2	23.3	1.13	0.80
C7	20 Jul 2026	8	20.59	91.65	8.1	33.44	8.2	23.4	1.31	0.81
C7	20 Jul 2026	9	20.25	91.07	8.0	33.44	8.2	23.5	1.57	0.85
C7	20 Jul 2026	10	19.55	90.97	7.8	33.42	8.2	23.7	1.71	0.86
C7	20 Jul 2026	11	19.04	90.78	7.8	33.41	8.2	23.8	1.55	0.89
C7	20 Jul 2026	12	18.42	91.10	7.7	33.40	8.2	23.9	1.47	0.93
C7	20 Jul 2026	13	17.91	91.43	7.7	33.39	8.2	24.1	1.32	0.94
C7	20 Jul 2026	14	17.78	92.35	7.6	33.38	8.2	24.1	1.33	0.95
C7	20 Jul 2026	15	17.52	92.66	7.6	33.37	8.2	24.1	1.41	0.95
C7	20 Jul 2026	16	17.03	92.58	7.6	33.37	8.1	24.3	1.39	0.96
C7	20 Jul 2026	17	16.97	92.78	7.5	33.37	8.1	24.3	0.90	0.96
C7	20 Jul 2026	18	16.90	92.90	7.4	33.37	8.1	24.3	0.80	0.98
C7	30 Jul 2026	1	22.89	91.08	6.9	33.52	8.0	22.8	0.52	0.74
C7	30 Jul 2026	2	22.05	91.40	7.0	33.54	8.0	23.1	0.51	0.75
C7	30 Jul 2026	3	20.81	92.83	7.3	33.50	8.0	23.4	0.40	0.68
C7	30 Jul 2026	4	20.48	94.03	7.4	33.47	8.0	23.5	0.38	0.65
C7	30 Jul 2026	5	20.36	94.97	7.4	33.46	8.0	23.5	0.37	0.63
C7	30 Jul 2026	6	20.01	95.34	7.4	33.46	8.0	23.6	0.35	0.61
C7	30 Jul 2026	7	19.49	95.59	7.4	33.46	8.0	23.7	0.40	0.62
C7	30 Jul 2026	8	18.40	94.69	7.6	33.42	8.0	24.0	0.61	0.71
C7	30 Jul 2026	9	17.98	92.56	7.6	33.41	8.0	24.1	0.82	0.81
C7	30 Jul 2026	10	16.28	90.62	7.8	33.43	8.0	24.5	0.87	0.79
C7	30 Jul 2026	11	15.64	90.84	7.9	33.35	8.0	24.6	1.18	0.77
C7	30 Jul 2026	12	15.62	91.28	7.8	33.33	8.0	24.5	1.47	0.76
C7	30 Jul 2026	13	15.58	91.35	7.8	33.33	8.0	24.6	1.52	0.79
C7	30 Jul 2026	14	15.48	91.30	7.7	33.34	8.0	24.6	1.65	0.80

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)	CDOM (ppb)
C7	30 Jul 2026	15	15.13	91.18	7.5	33.34	8.0	24.7	1.65	0.82
C7	30 Jul 2026	16	14.45	91.19	7.4	33.34	8.0	24.8	1.49	0.80
C7	30 Jul 2026	17	14.40	91.52	7.4	33.34	8.0	24.8	1.21	0.81
C7	30 Jul 2026	18	14.40	91.54	7.4	33.34	8.0	24.8	1.09	0.82
C8	06 Jul 2026	1	20.69	81.78	7.6	33.49	8.2	23.4	1.80	0.90
C8	06 Jul 2026	2	20.41	81.59	7.7	33.49	8.2	23.5	1.90	0.86
C8	06 Jul 2026	3	20.17	83.78	7.9	33.48	8.2	23.6	2.05	0.81
C8	06 Jul 2026	4	19.77	85.84	8.1	33.47	8.2	23.7	1.88	0.79
C8	06 Jul 2026	5	19.38	87.31	8.2	33.46	8.2	23.8	1.75	0.77
C8	06 Jul 2026	6	18.93	89.84	8.5	33.44	8.2	23.8	1.57	0.73
C8	06 Jul 2026	7	18.75	91.63	8.6	33.42	8.2	23.9	1.53	0.72
C8	06 Jul 2026	8	18.57	92.14	8.7	33.42	8.2	23.9	1.47	0.72
C8	06 Jul 2026	9	18.45	92.65	8.8	33.41	8.2	23.9	1.32	0.71
C8	06 Jul 2026	10	18.35	92.77	8.8	33.40	8.2	24.0	1.31	0.73
C8	06 Jul 2026	11	18.32	92.79	8.7	33.40	8.2	24.0	1.30	0.72
C8	06 Jul 2026	12	18.30	92.80	8.8	33.40	8.2	24.0	1.26	0.73
C8	06 Jul 2026	13	18.22	92.71	8.7	33.40	8.2	24.0	1.33	0.73
C8	06 Jul 2026	14	18.09	92.78	8.8	33.40	8.2	24.0	1.25	0.74
C8	06 Jul 2026	15	18.03	92.59	8.8	33.40	8.2	24.0	1.33	0.74
C8	06 Jul 2026	16	17.39	91.99	8.6	33.40	8.2	24.2	1.59	0.77
C8	06 Jul 2026	17	16.35	91.00	8.3	33.42	8.2	24.4	1.98	0.78
C8	06 Jul 2026	18	15.61	92.29	8.1	33.39	8.1	24.6	1.56	0.83
C8	06 Jul 2026	19	15.30	93.01	8.1	33.39	8.1	24.7	1.41	0.86
C8	16 Jul 2026	1	22.08	77.66	7.9	33.49	8.3	23.0	0.97	0.71
C8	16 Jul 2026	2	22.00	84.37	7.9	33.49	8.3	23.1	1.00	0.76
C8	16 Jul 2026	3	21.90	88.29	8.0	33.49	8.3	23.1	1.16	0.71
C8	16 Jul 2026	4	21.24	88.72	8.0	33.49	8.2	23.3	1.31	0.69
C8	16 Jul 2026	5	19.59	90.25	8.2	33.47	8.2	23.7	1.11	0.71
C8	16 Jul 2026	6	18.74	92.94	8.3	33.44	8.2	23.9	0.83	0.72
C8	16 Jul 2026	7	18.54	94.50	8.4	33.41	8.2	23.9	0.71	0.74
C8	16 Jul 2026	8	18.34	95.05	8.4	33.42	8.2	24.0	0.75	0.74
C8	16 Jul 2026	9	17.49	94.99	8.4	33.43	8.2	24.2	0.80	0.76
C8	16 Jul 2026	10	16.30	94.84	8.3	33.41	8.2	24.5	1.19	0.82
C8	16 Jul 2026	11	15.72	94.28	8.2	33.42	8.1	24.6	1.88	0.85
C8	16 Jul 2026	12	15.31	93.94	7.9	33.39	8.1	24.7	2.12	0.91
C8	16 Jul 2026	13	15.02	94.01	7.6	33.39	8.1	24.7	1.78	0.93
C8	16 Jul 2026	14	14.89	95.09	7.3	33.39	8.1	24.8	1.02	0.96
C8	16 Jul 2026	15	14.77	95.28	7.0	33.38	8.0	24.8	0.66	0.99
C8	16 Jul 2026	16	14.76	94.88	6.9	33.38	8.0	24.8	0.62	1.01
C8	16 Jul 2026	17	14.76	94.60	6.8	33.37	8.0	24.8	0.58	1.02
C8	16 Jul 2026	18	14.75	94.35	6.7	33.37	8.0	24.8	0.58	1.01
C8	16 Jul 2026	19	14.77	94.59	6.8	33.38	8.0	24.8	0.58	1.00
C8	20 Jul 2026	1	22.39	89.24	7.8	33.48	8.2	23.0	0.71	0.75
C8	20 Jul 2026	2	22.22	89.27	7.8	33.49	8.2	23.0	0.72	0.76
C8	20 Jul 2026	3	21.82	89.74	7.9	33.48	8.2	23.1	0.75	0.77
C8	20 Jul 2026	4	21.40	90.71	8.1	33.47	8.2	23.2	0.82	0.71
C8	20 Jul 2026	5	21.17	91.28	8.3	33.45	8.2	23.3	1.07	0.71
C8	20 Jul 2026	6	20.77	90.52	8.5	33.45	8.2	23.4	2.44	0.76
C8	20 Jul 2026	7	20.52	88.66	8.7	33.44	8.3	23.4	3.23	0.81
C8	20 Jul 2026	8	20.12	88.31	8.7	33.43	8.3	23.5	2.51	0.82
C8	20 Jul 2026	9	19.73	89.49	8.7	33.43	8.2	23.6	2.34	0.84
C8	20 Jul 2026	10	19.62	90.07	8.4	33.42	8.2	23.7	2.05	0.87
C8	20 Jul 2026	11	18.78	90.43	8.0	33.40	8.2	23.9	1.82	0.87
C8	20 Jul 2026	12	17.52	91.88	7.9	33.40	8.2	24.2	1.51	0.93
C8	20 Jul 2026	13	17.38	92.21	7.9	33.37	8.2	24.2	2.11	0.96
C8	20 Jul 2026	14	17.06	92.05	7.9	33.36	8.2	24.2	2.18	0.96
C8	20 Jul 2026	15	16.94	92.58	7.8	33.36	8.1	24.3	1.35	0.95
C8	20 Jul 2026	16	16.87	92.86	7.6	33.36	8.1	24.3	1.08	0.96
C8	20 Jul 2026	17	16.58	93.04	7.2	33.36	8.1	24.4	0.89	0.97
C8	20 Jul 2026	18	16.34	93.71	7.0	33.36	8.1	24.4	0.60	0.98
C8	20 Jul 2026	19	16.29	93.89	6.9	33.36	8.1	24.4	0.55	0.99
C8	30 Jul 2026	1	23.27	95.92	7.1	33.54	8.1	22.8	0.32	0.66
C8	30 Jul 2026	2	23.25	95.84	7.0	33.54	8.1	22.8	0.32	0.65
C8	30 Jul 2026	3	23.01	95.79	7.0	33.55	8.1	22.8	0.34	0.62
C8	30 Jul 2026	4	22.56	95.33	7.0	33.55	8.1	23.0	0.40	0.65
C8	30 Jul 2026	5	21.82	94.88	7.2	33.52	8.1	23.1	0.41	0.64
C8	30 Jul 2026	6	20.20	94.95	7.3	33.53	8.0	23.6	0.39	0.61
C8	30 Jul 2026	7	19.39	94.67	7.5	33.46	8.0	23.7	0.29	0.58
C8	30 Jul 2026	8	18.78	95.10	7.5	33.43	8.0	23.9	0.36	0.61
C8	30 Jul 2026	9	18.04	94.78	7.7	33.39	8.0	24.0	0.44	0.62

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)	CDOM (ppb)
C8	30 Jul 2026	10	17.36	94.97	7.8	33.37	8.0	24.2	0.43	0.64
C8	30 Jul 2026	11	16.84	95.61	7.9	33.34	8.0	24.3	0.61	0.66
C8	30 Jul 2026	12	16.60	94.89	7.9	33.34	8.0	24.3	0.79	0.66
C8	30 Jul 2026	13	16.34	94.11	7.8	33.34	8.0	24.4	1.10	0.67
C8	30 Jul 2026	14	16.12	93.39	7.8	33.34	8.0	24.4	1.48	0.70
C8	30 Jul 2026	15	15.81	92.59	7.7	33.35	8.0	24.5	1.12	0.74
C8	30 Jul 2026	16	15.72	92.12	7.6	33.34	8.0	24.5	0.80	0.78
C8	30 Jul 2026	17	15.60	90.56	7.4	33.35	8.0	24.6	0.75	0.79
C8	30 Jul 2026	18	15.51	89.42	7.4	33.35	8.0	24.6	0.71	0.80
C8	30 Jul 2026	19	15.30	89.15	7.4	33.36	8.0	24.6	0.72	0.80
C8	30 Jul 2026	20	15.06	89.15	7.3	33.36	8.0	24.7	0.73	0.81

NA = not available

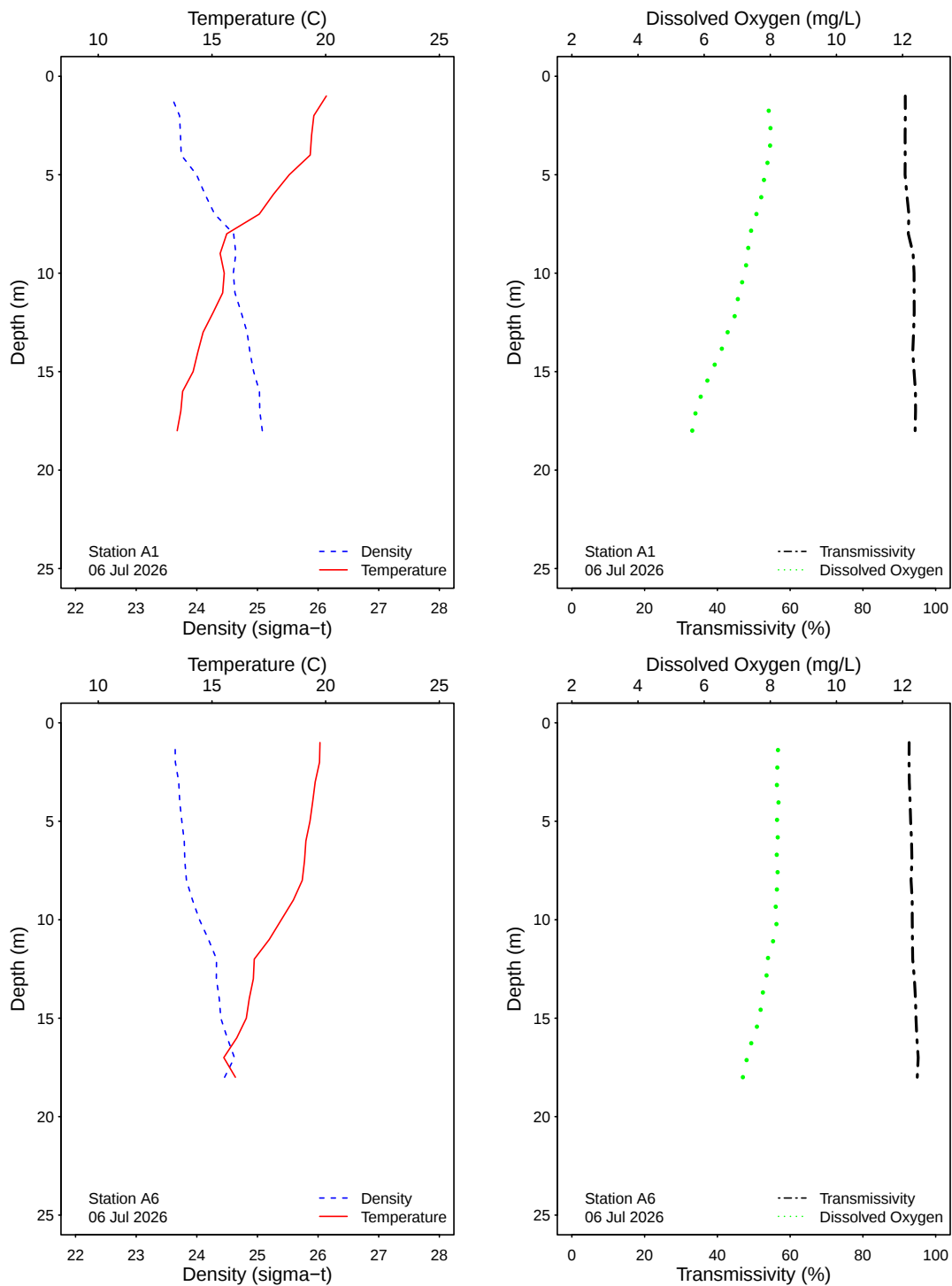


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

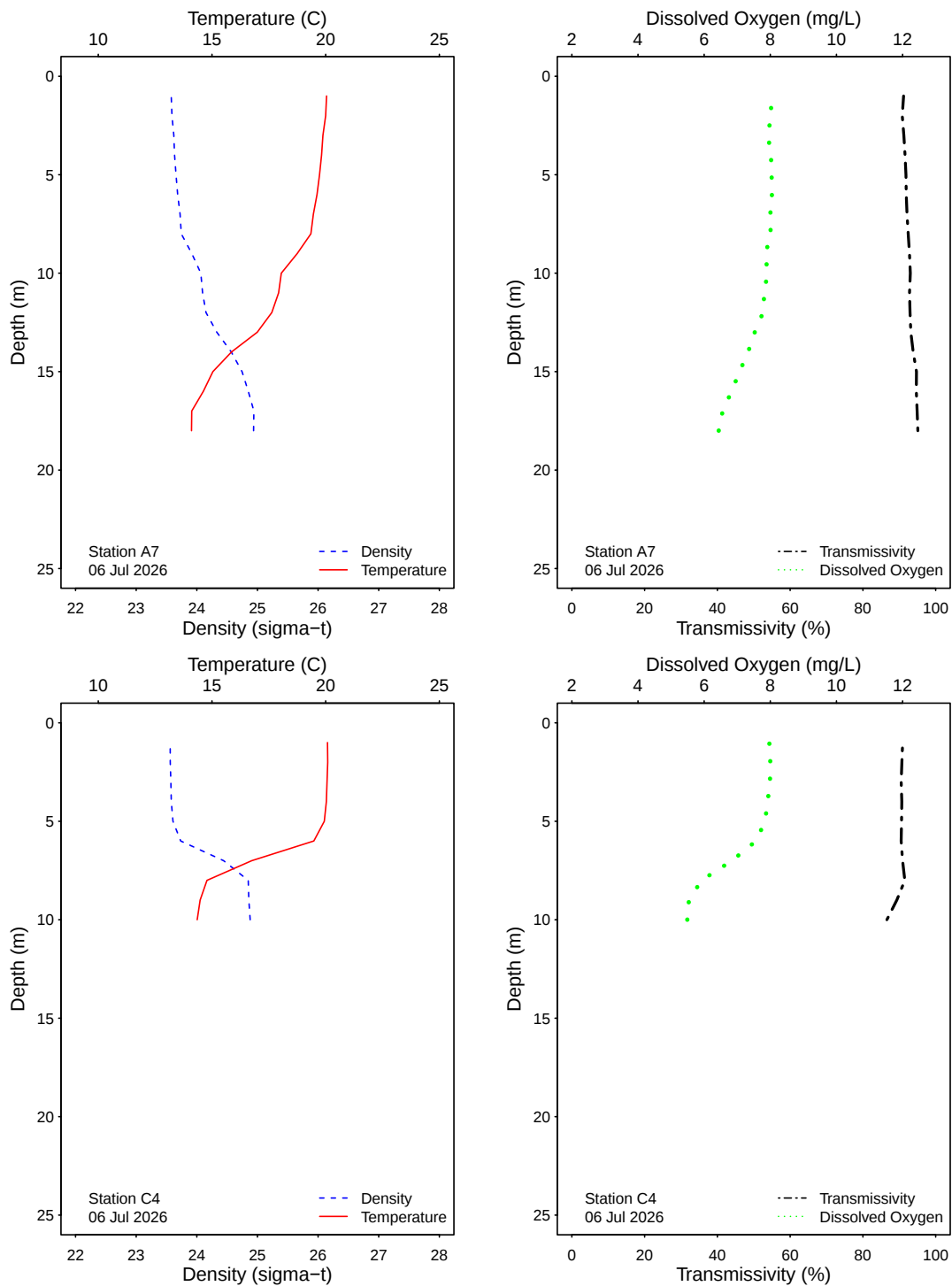


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

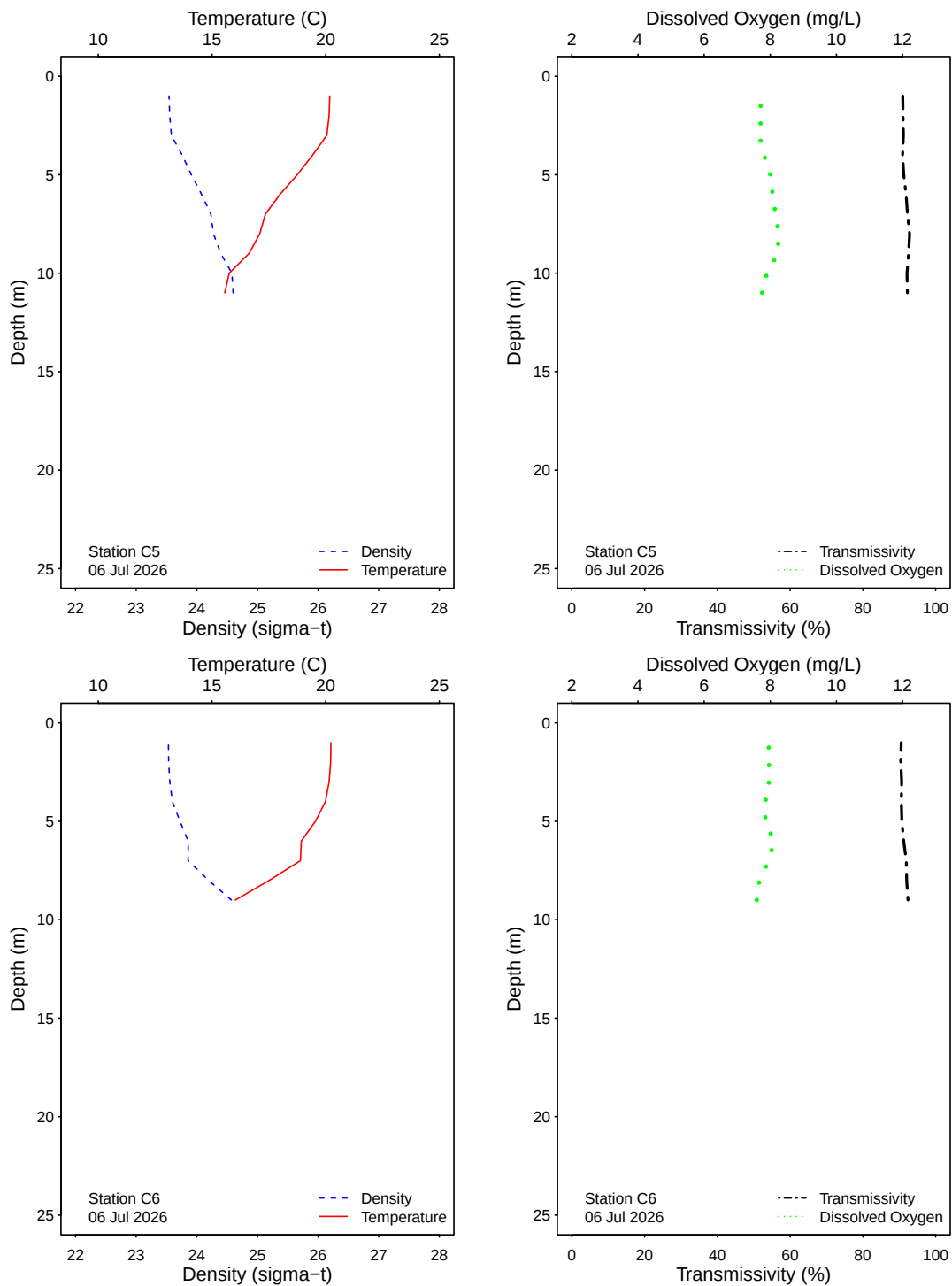


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

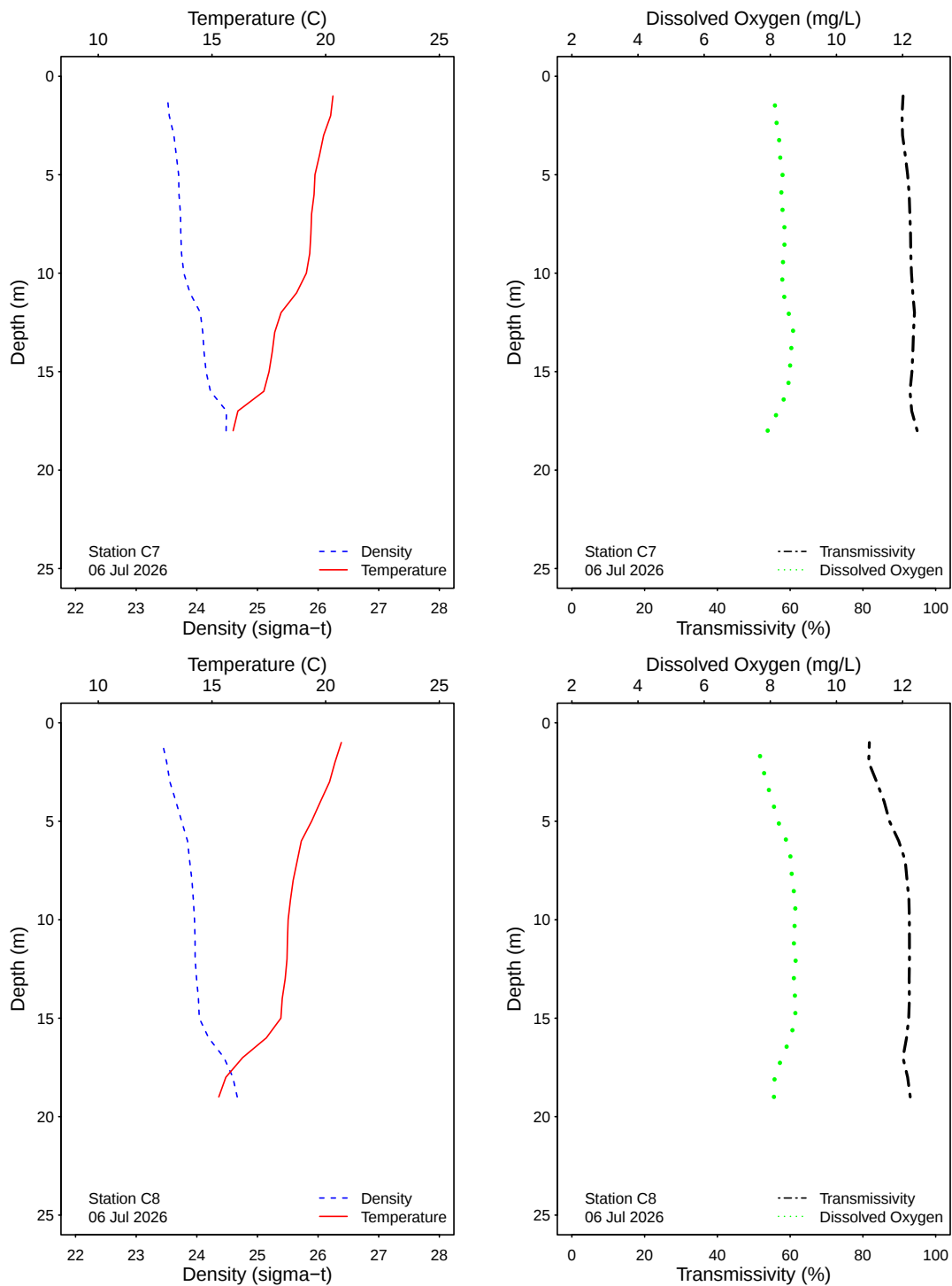


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

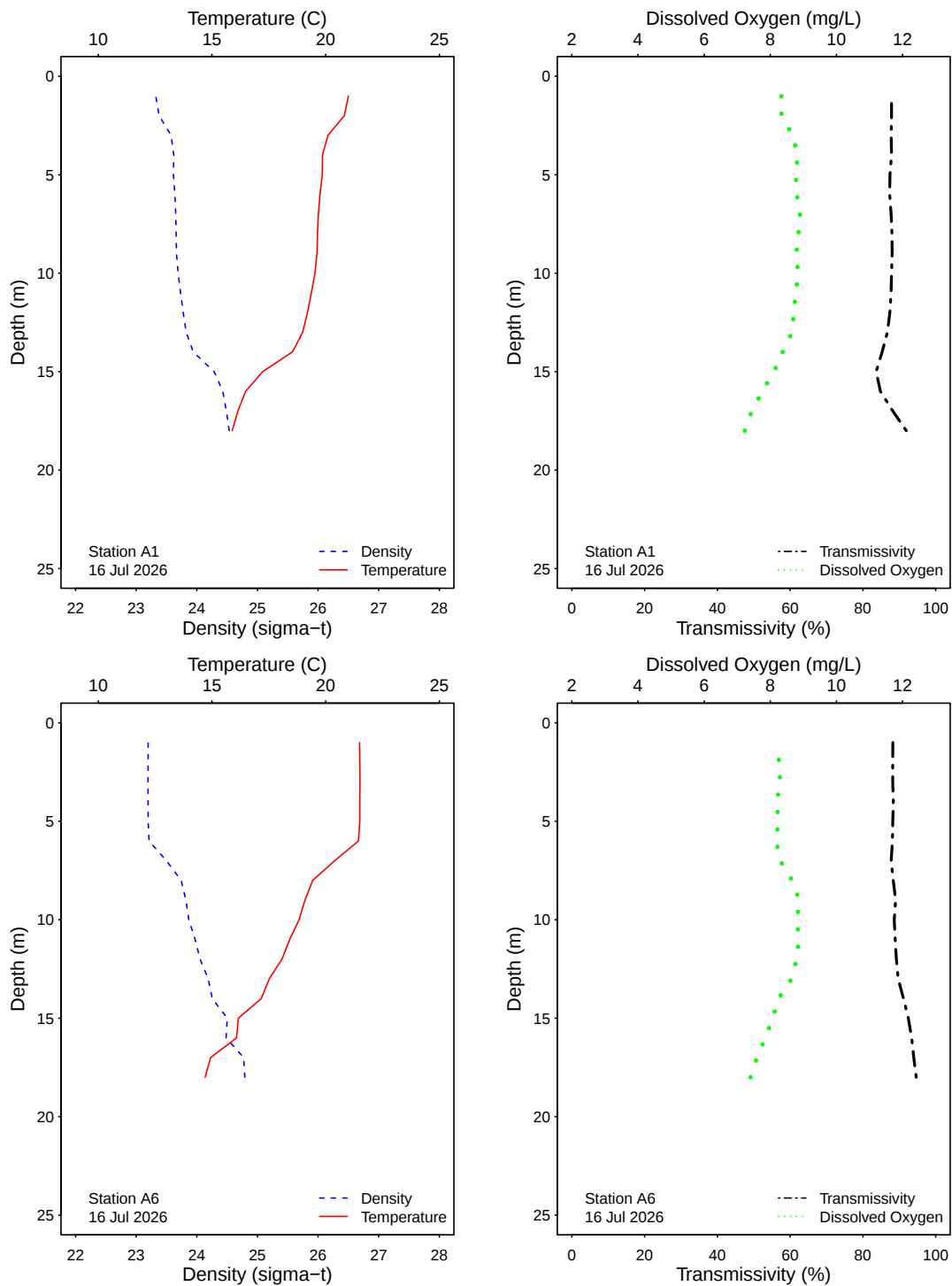


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

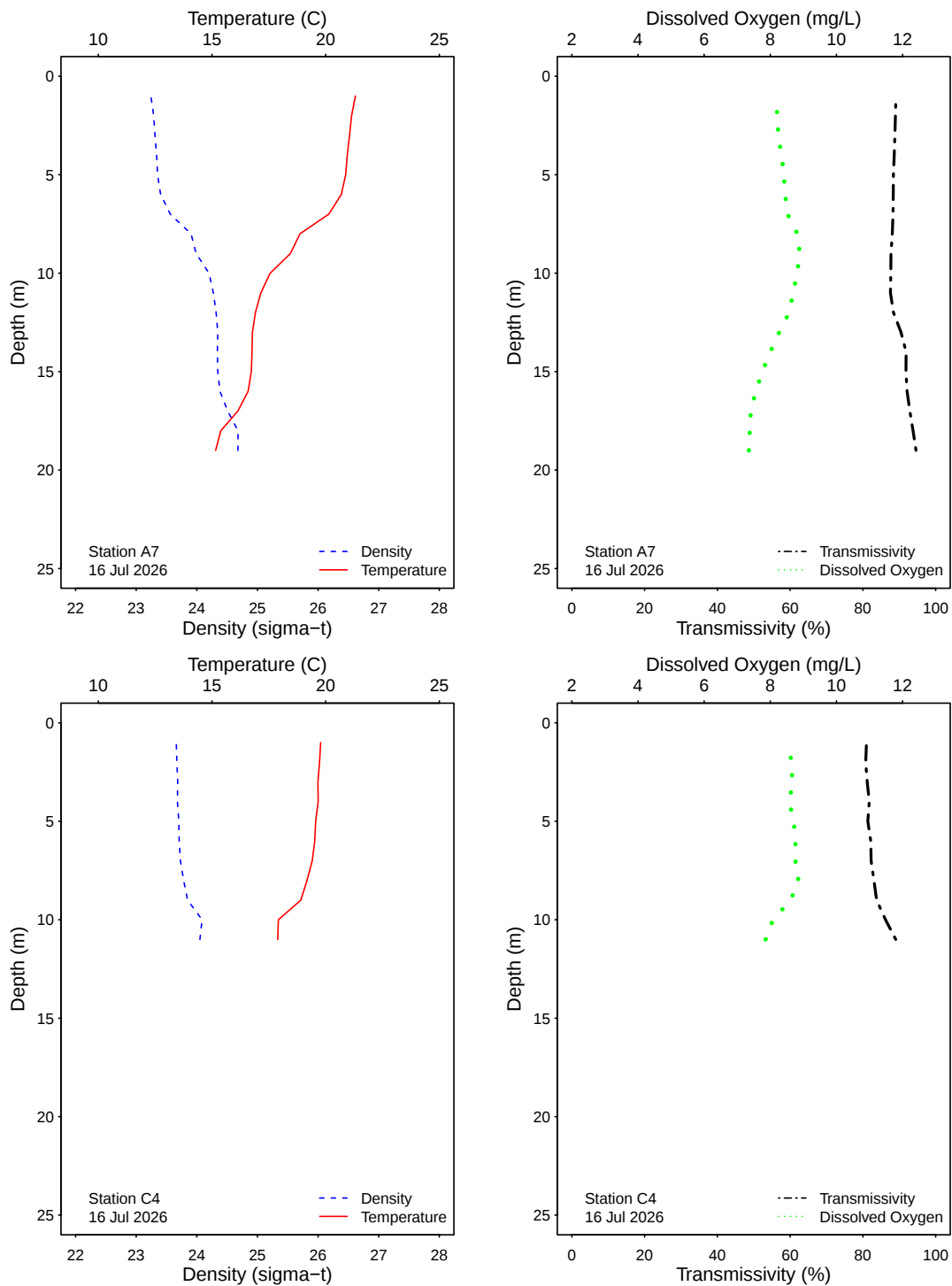


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

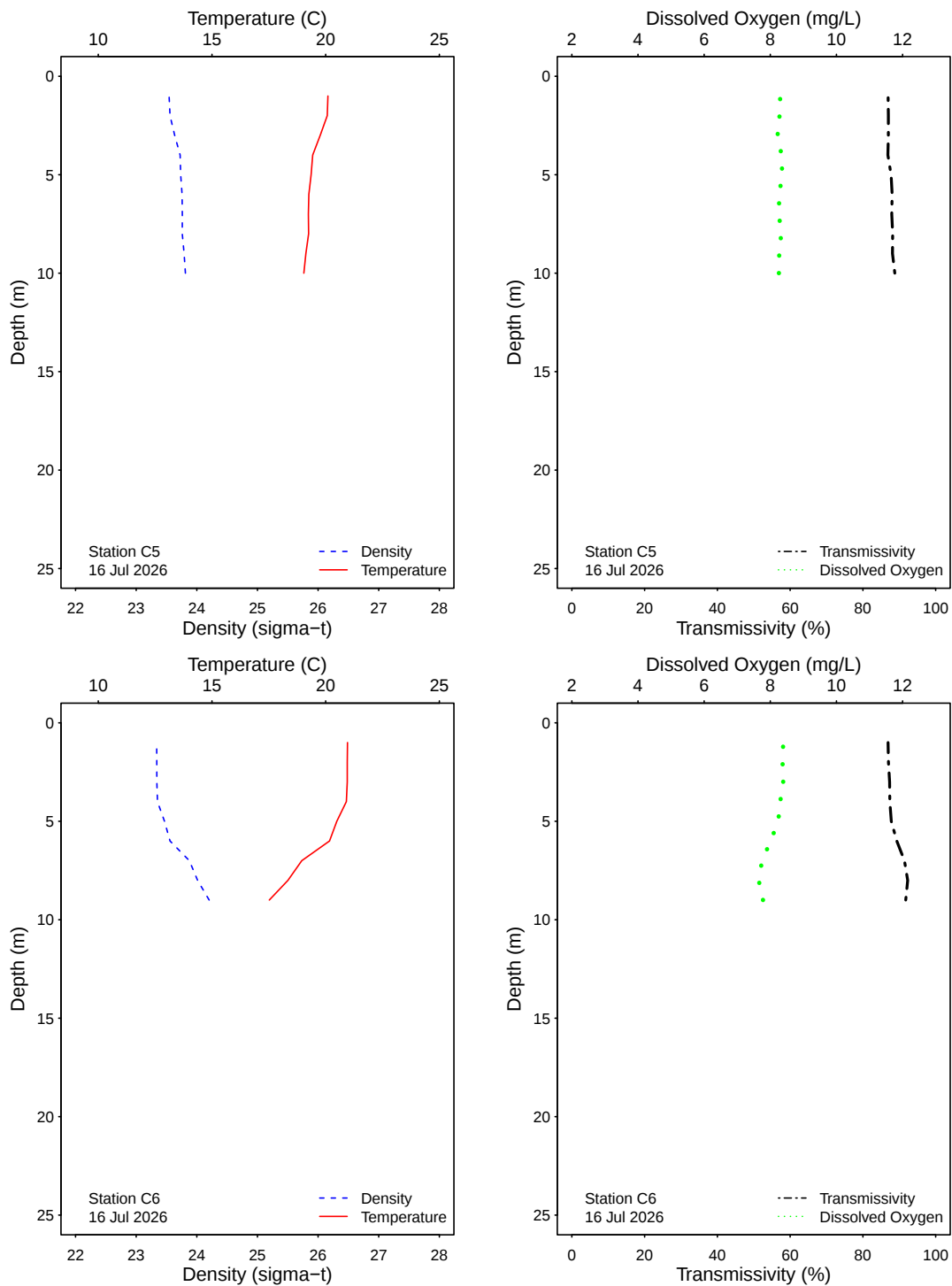


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

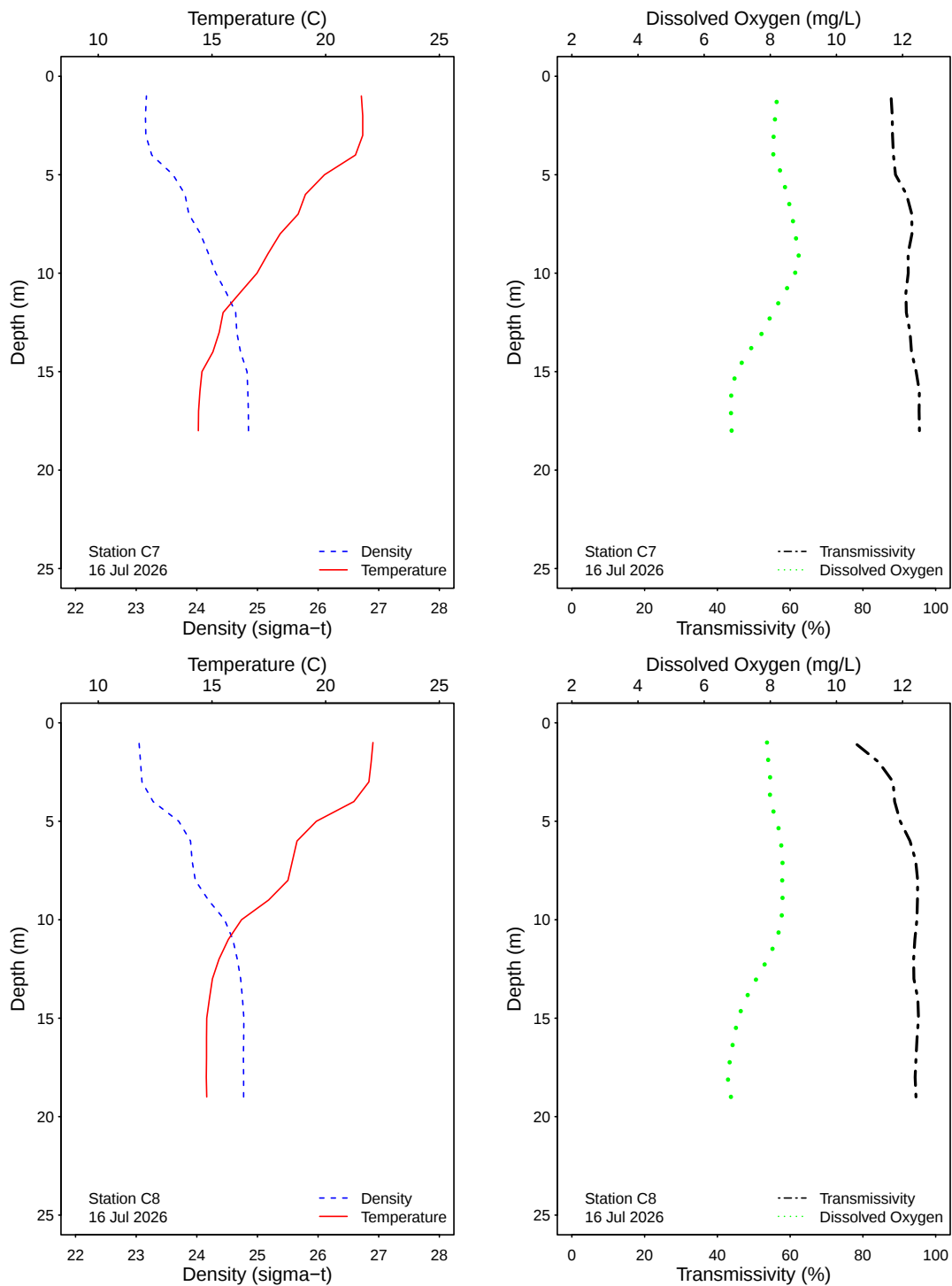


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

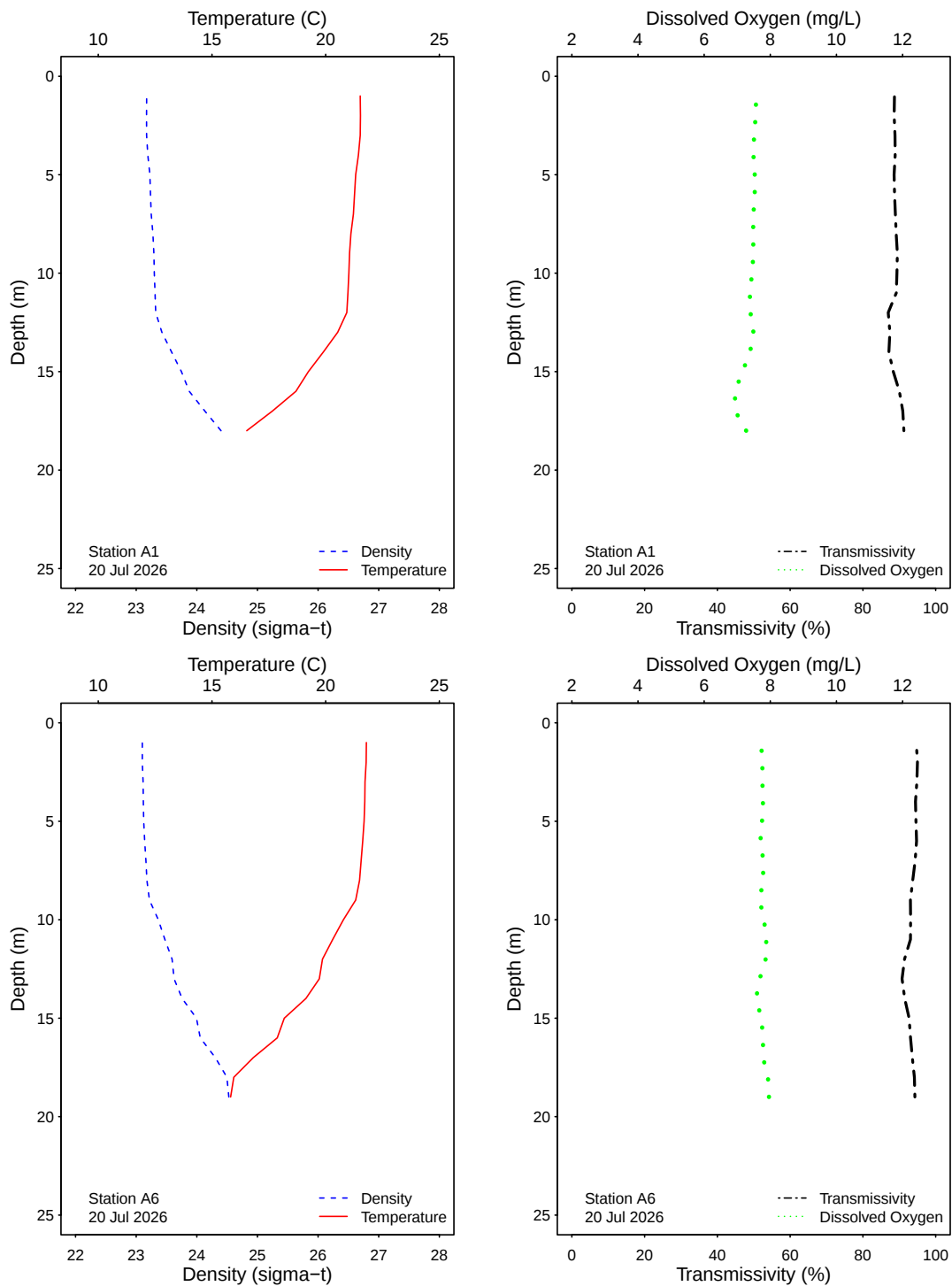


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

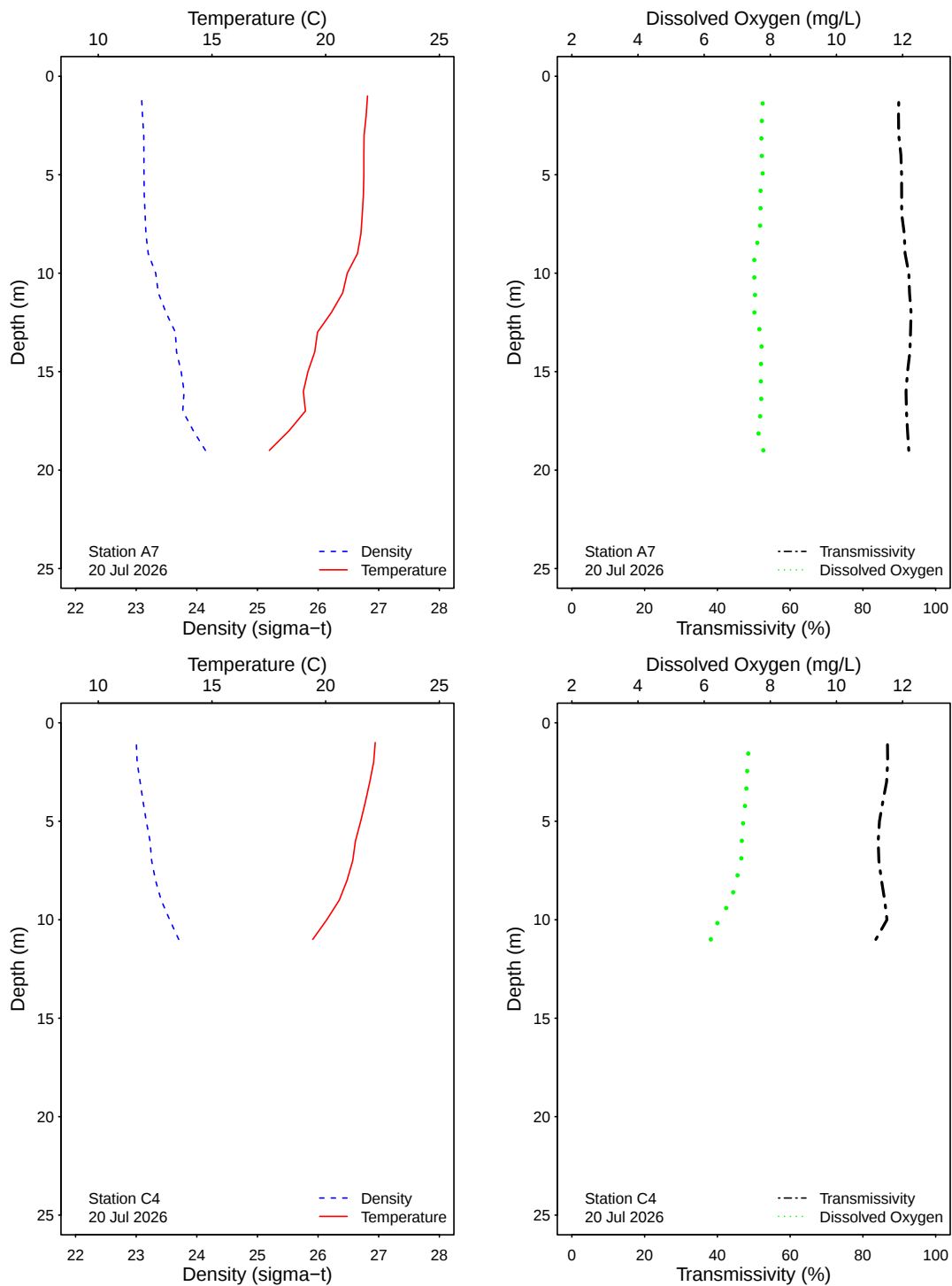


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

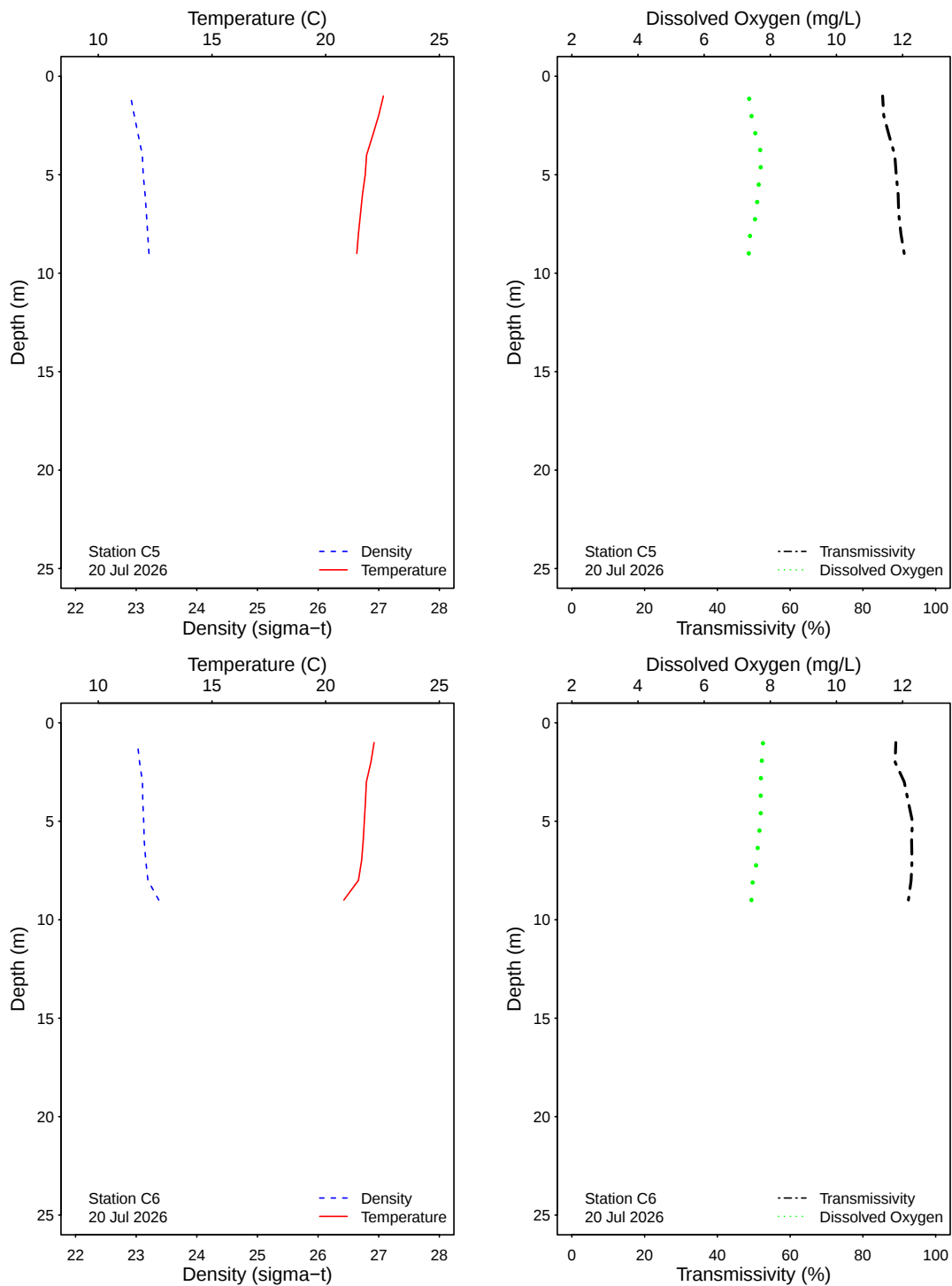


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

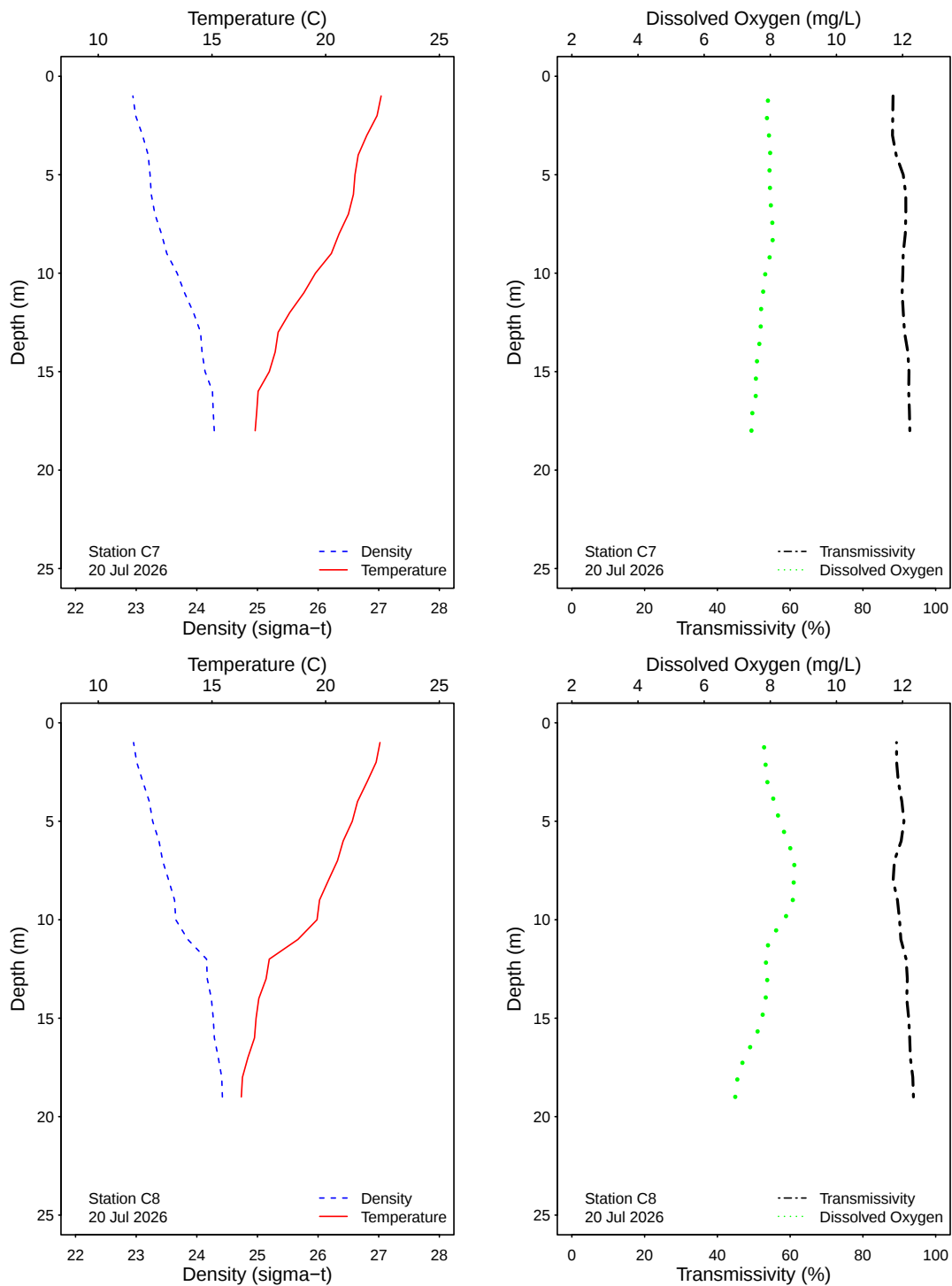


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

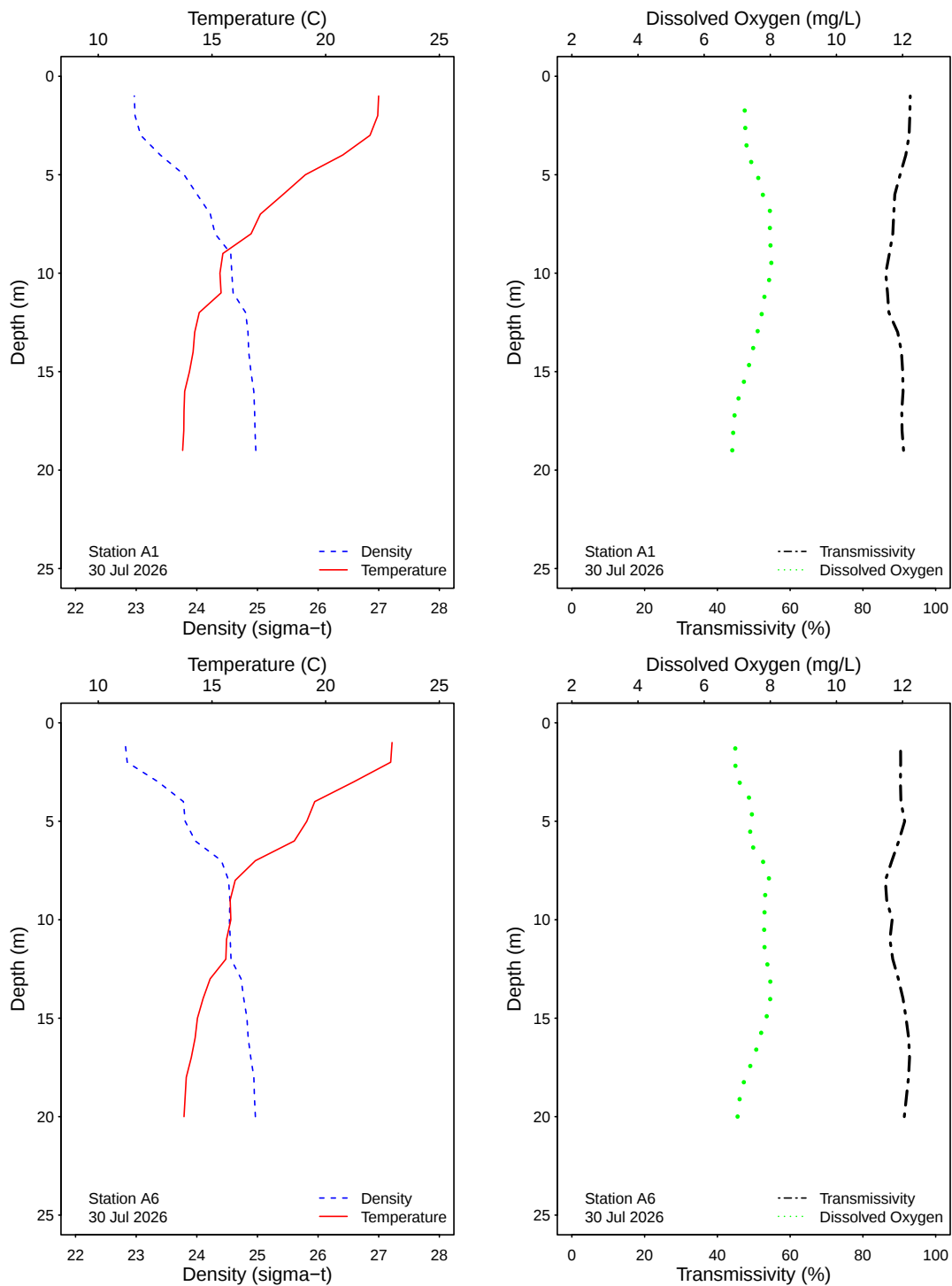


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

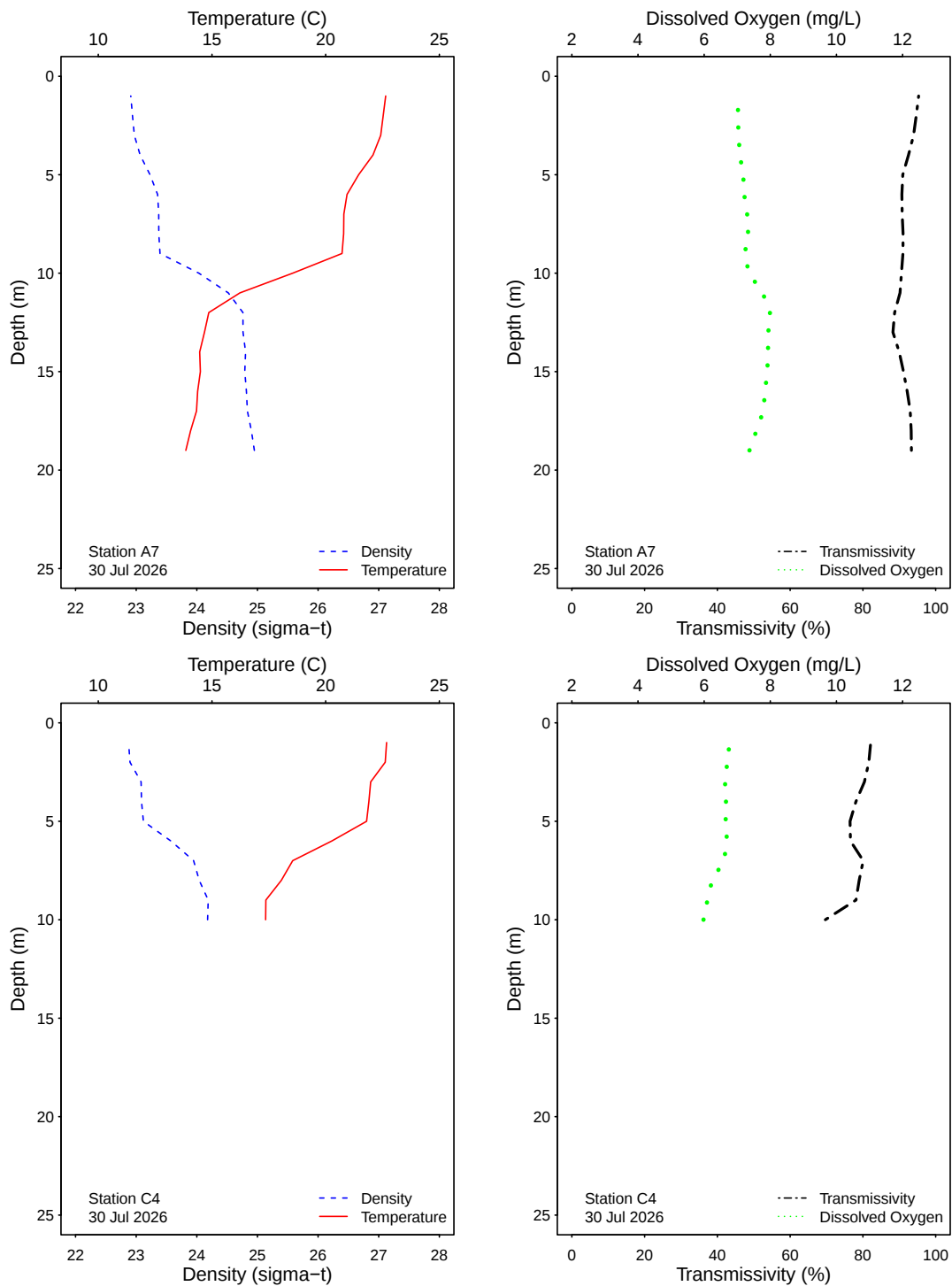


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

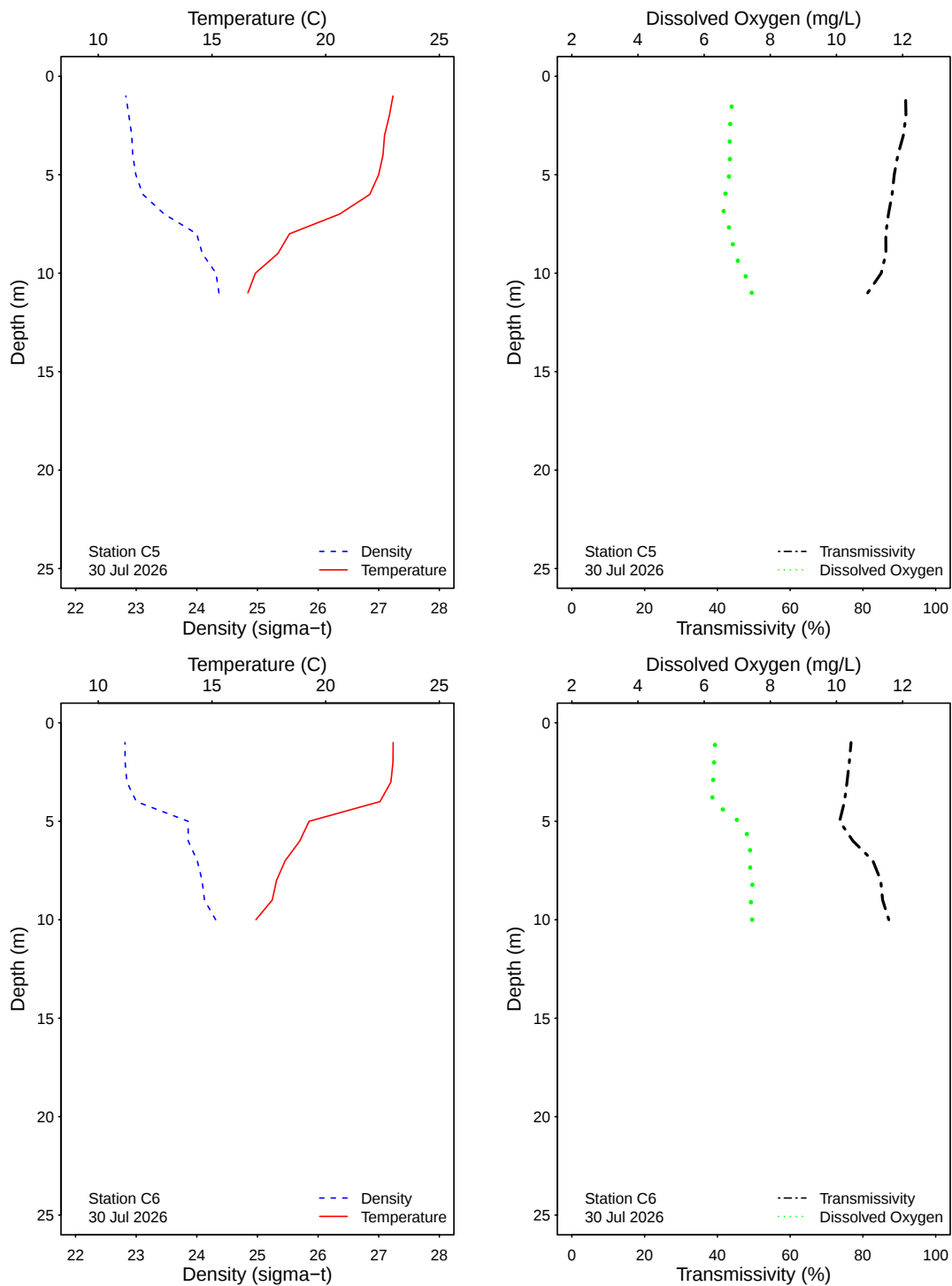


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

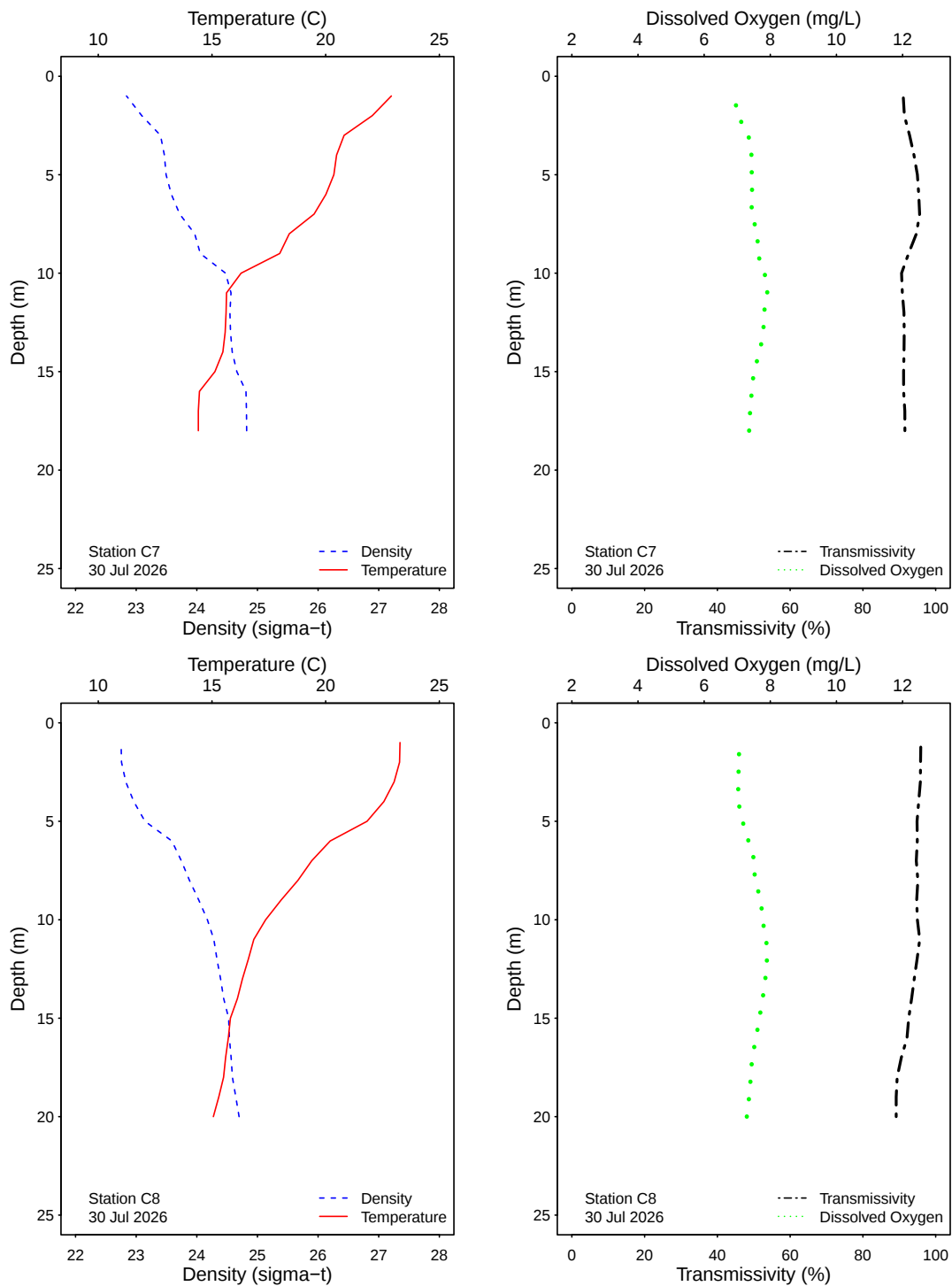


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

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APPENDIX A

Quality Assurance

Table A.1

Summary of bacteriological quality assurance field and lab duplicate sample analyses at selected PLOO 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
D4	08 Jul 2026		JF	LAB DUPLICATE	20	2	1
A7	06 Jul 2026	18	SS	LAB DUPLICATE	ns	2	1
A7	16 Jul 2026	18	ADG	LAB DUPLICATE	ns	2	1
A7	20 Jul 2026	18	NCD	LAB DUPLICATE	ns	2	1
A7	30 Jul 2026	18	NCD	LAB DUPLICATE	ns	2	1
C7	06 Jul 2026	18	SS	LAB DUPLICATE	ns	2	1
C7	16 Jul 2026	18	ADG	LAB DUPLICATE	ns	2	20
C7	20 Jul 2026	18	NCD	LAB DUPLICATE	ns	2	1
C7	30 Jul 2026	18	NCD	LAB DUPLICATE	ns	2	1
C8	06 Jul 2026	12	SS	LAB DUPLICATE	ns	2	1
C8	16 Jul 2026	12	ADG	LAB DUPLICATE	ns	2	4
C8	20 Jul 2026	12	NCD	LAB DUPLICATE	ns	2	1
C8	30 Jul 2026	12	NCD	LAB DUPLICATE	ns	2	1
D12	01 Jul 2026		NCD	FIELD DUPLICATE	20	2	2
D12	01 Jul 2026		NCD	LAB DUPLICATE	20	2	3
D12	08 Jul 2026		NCD	FIELD DUPLICATE	4	2	1
D12	08 Jul 2026		NCD	LAB DUPLICATE	2	2	1
D12	15 Jul 2026		NCD	FIELD DUPLICATE	20	2	2
D12	15 Jul 2026		NCD	LAB DUPLICATE	20	2	1
D12	22 Jul 2026		ADG	FIELD DUPLICATE	10	6	1
D12	22 Jul 2026		ADG	LAB DUPLICATE	4	2	2
D12	29 Jul 2026		SS	FIELD DUPLICATE	20	2	5
D12	29 Jul 2026		SS	LAB DUPLICATE	20	2	5

ns = not sampled

ND = no data

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