

RESULTADOS

MEDIDAS DE SONDA OCEÁNICA (CTD-IMIDA)

COORDINADAS POR EL IMIDA EN EL MM



Región de Murcia

Fecha: Miércoles 13/10/2021

El presente informe muestra un resumen inicial de los resultados de los muestreos coordinados por el IMIDA y realizados por el IMIDA en el Mar Menor (MM) en la fecha indicada mediante SONDA multiparamétrica (CTD), que mide un total de 7 variables: temperatura, conductividad, turbidez, pH, oxígeno, salinidad y clorofila.

Cada punto de muestreo puede llegar a proporcionar en torno a 10.000 datos, que son tratados de forma automatizada por los técnicos del IMIDA. Tal cantidad de información requiere, además de su descarga, un complejo proceso de análisis, procesado y de transformación de datos.

Para controlar rápidamente la situación de la laguna con respecto a los niveles de oxígeno y llevar un seguimiento diario de la misma, se ha decidido identificar y alertar únicamente de los valores que representan situaciones de posible anoxia/hipoxia en base a la siguiente clasificación. Se considerarán no preocupantes los valores de oxígeno superiores a 4 miligramos por litro (mg/L):

0-2 mg/L: ANOXIA

2-4 mg/L: HIPOXIA

>4 mg/L: NO PREOCUPANTE

Las tablas siguientes incluyen los datos necesarios para tener una visión global de todo el proceso:

OBSERVACIONES GENERALES

Se realiza **UNA SALIDA** en barco para muestreo por la mañana, en horario de 08:00 a 11:00 horas.

Salida desde el puerto de Lo Pagán, con los técnicos y un patrón del IMIDA.

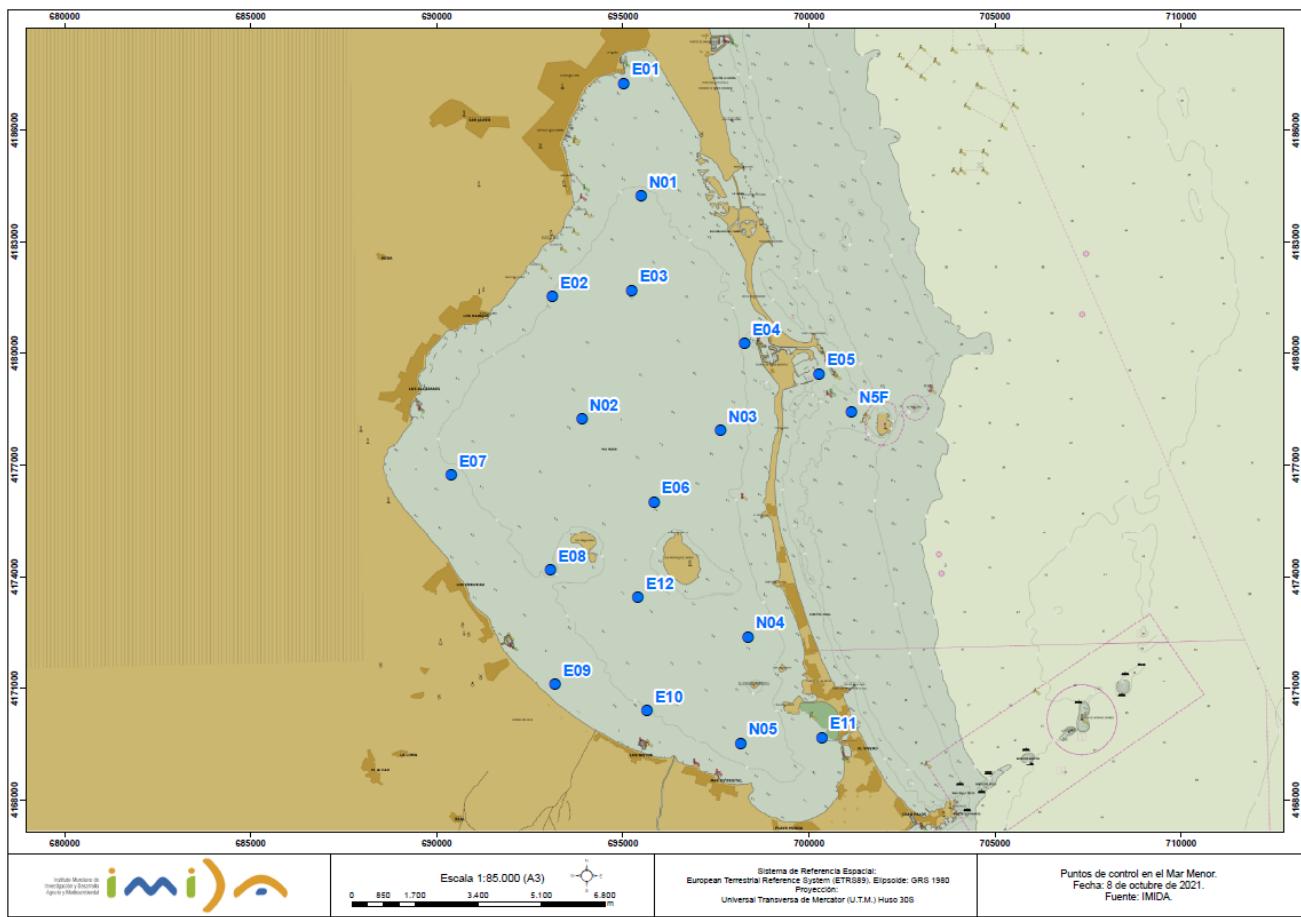
ORDEN	Punto	D. Secchi	Hora	Fondo	Viento (km/h)	Dirección	Sonda
1	E01	2.60	07:59	NO	0	NO	2.60
2	N01	2.80	08:06	NO	4	NO	5.60
3	E03	2.80	08:16	NO	2-4	NO	6.30
4	E02	2.90	08:26	NO	2-4	NO	5.60
5	N02	2.30	08:32	NO	2-4	NO	6.30
6	E07	1.00	08:44	NO	6-8	NO	4.60
7	E08	1.20	09:20	NO	6-8	NO	5.00
8	E09	1.10	09:26	NO	6-8	NO	1.40
9	E10	1.20	09:34	NO	6-8	NO	5.00
10	N05	1.20	09:42	NO	6-8	NO	5.80
11	E11	1.30	09:49	NO	6-8	NO	3.80
12	N04	1.60	09:56	NO	6-8	NO	5.90
13	E12	1.50	10:06	NO	6-8	NO	5.90
14	E06	1.90	10:15	NO	6-8	NO	6.60
15	N03	2.10	10:23	NO	6-8	NO	6.30
16	E04	2.10	10:31	NO	6-8	NO	5.30
17	E05	4.40	10:38	NO	6-8	NO	5.30
18	N5F	8.50	10:49	NO	6-8	NO	9.60

UBICACIÓN DE LOS TRABAJOS

Estación de Acuicultura Marina de San Pedro del Pinatar: Coordinación para la organización de las salidas al mar, manejo y mantenimiento de sondas.

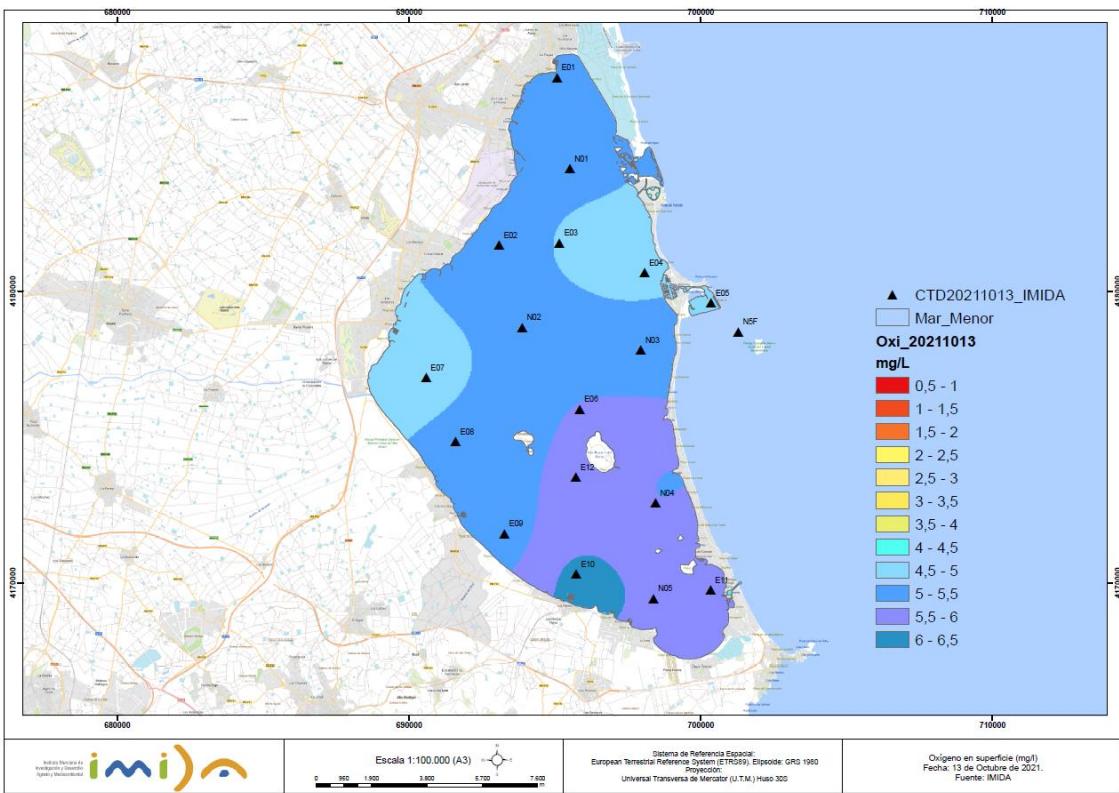
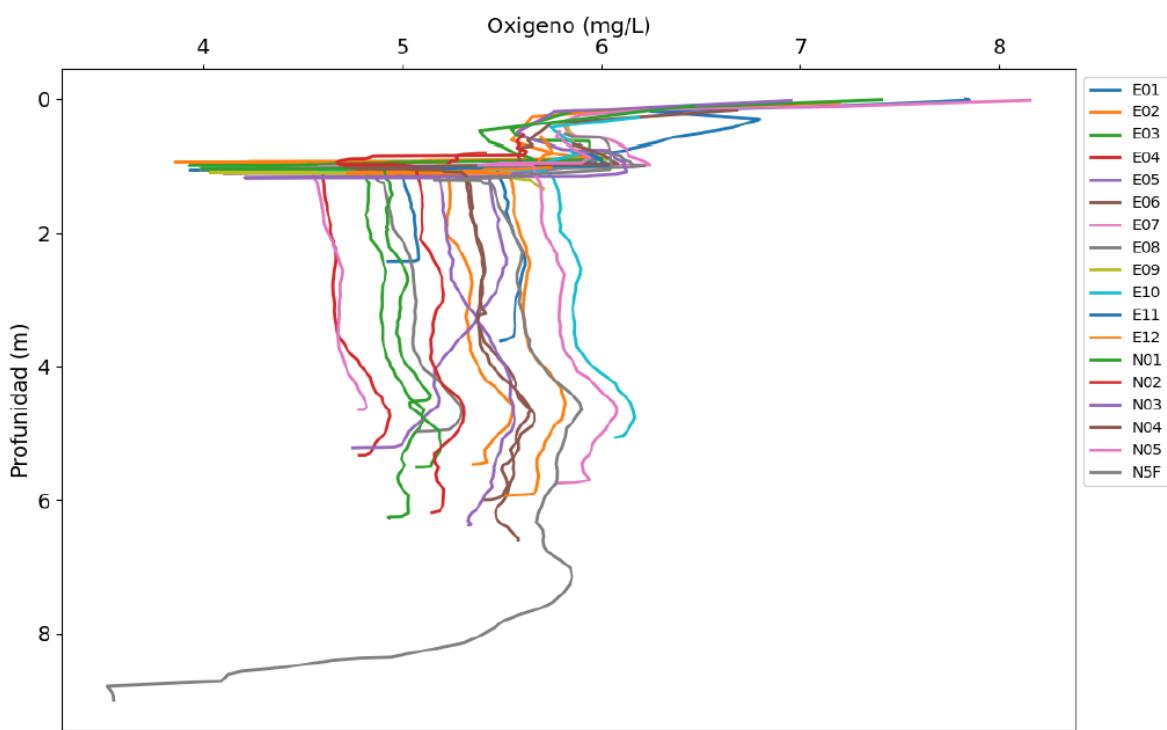
Instalaciones del IMIDA de La Alberca: Diseño y puesta en marcha de la encuesta para la toma de datos, procesamiento, tratamiento, análisis de datos, cartografía y maquetación.

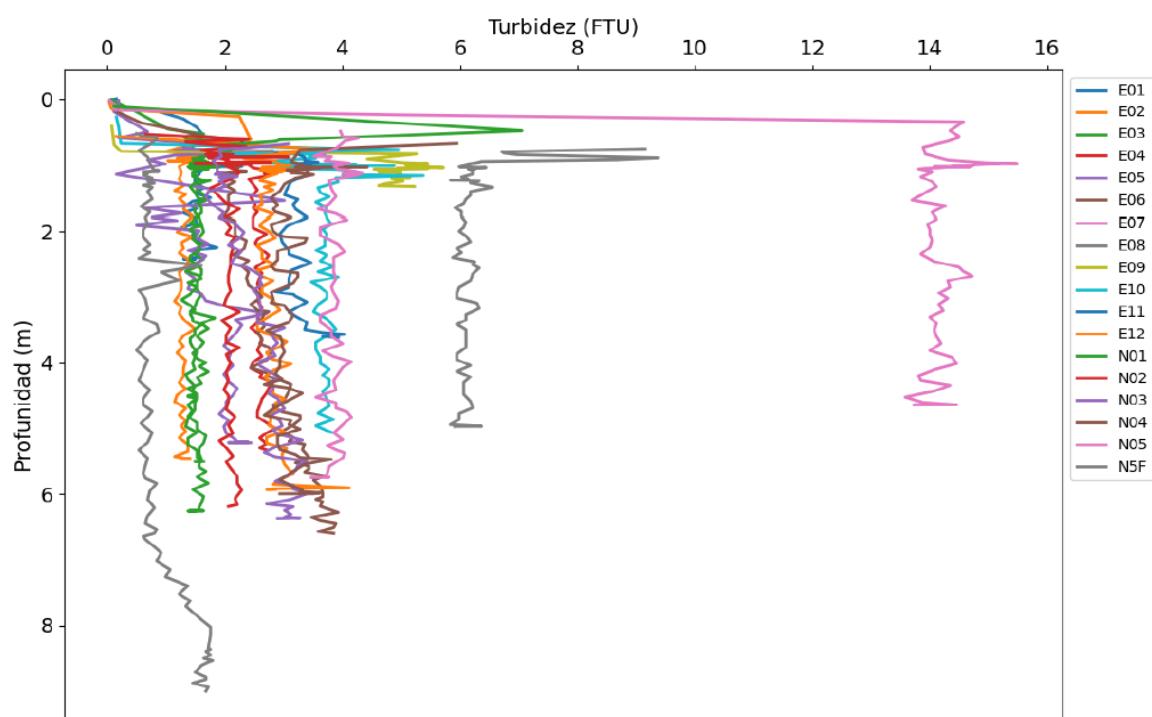
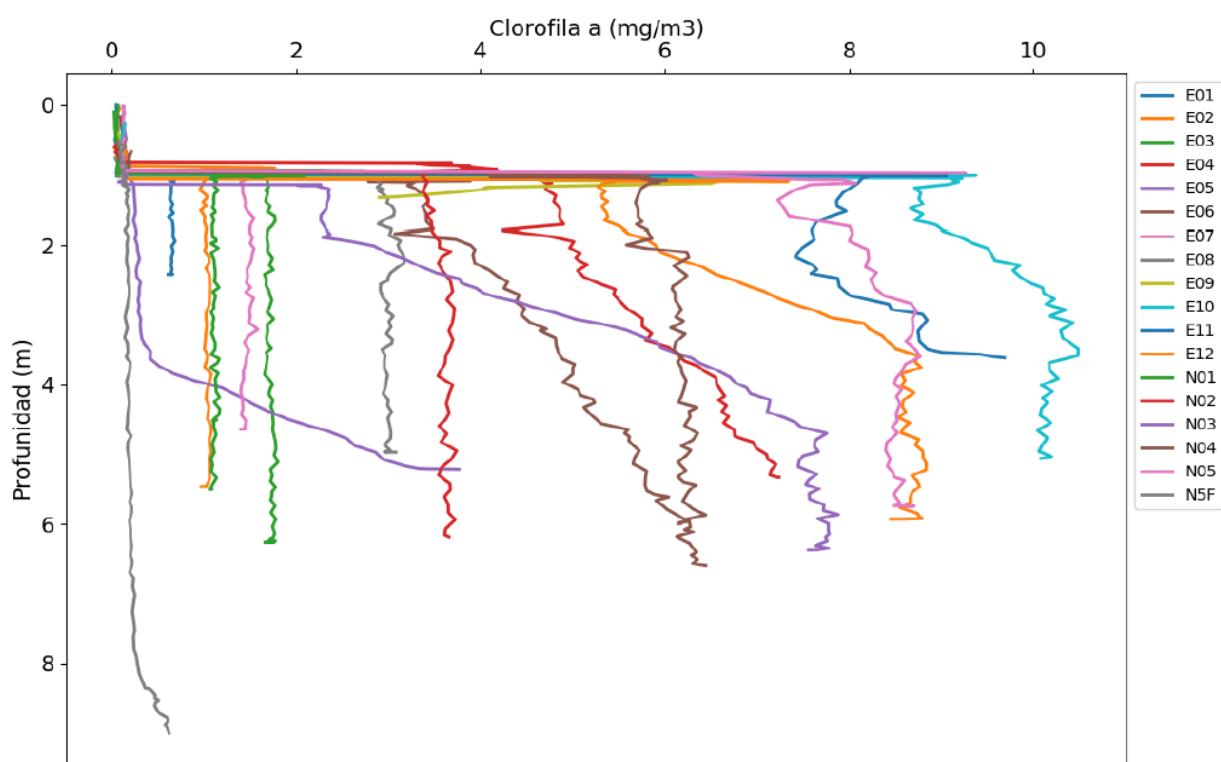
Mar Menor: El IMIDA ha muestreado un total de 18 puntos con el CTD, previamente establecidos por el grupo de monitorización.

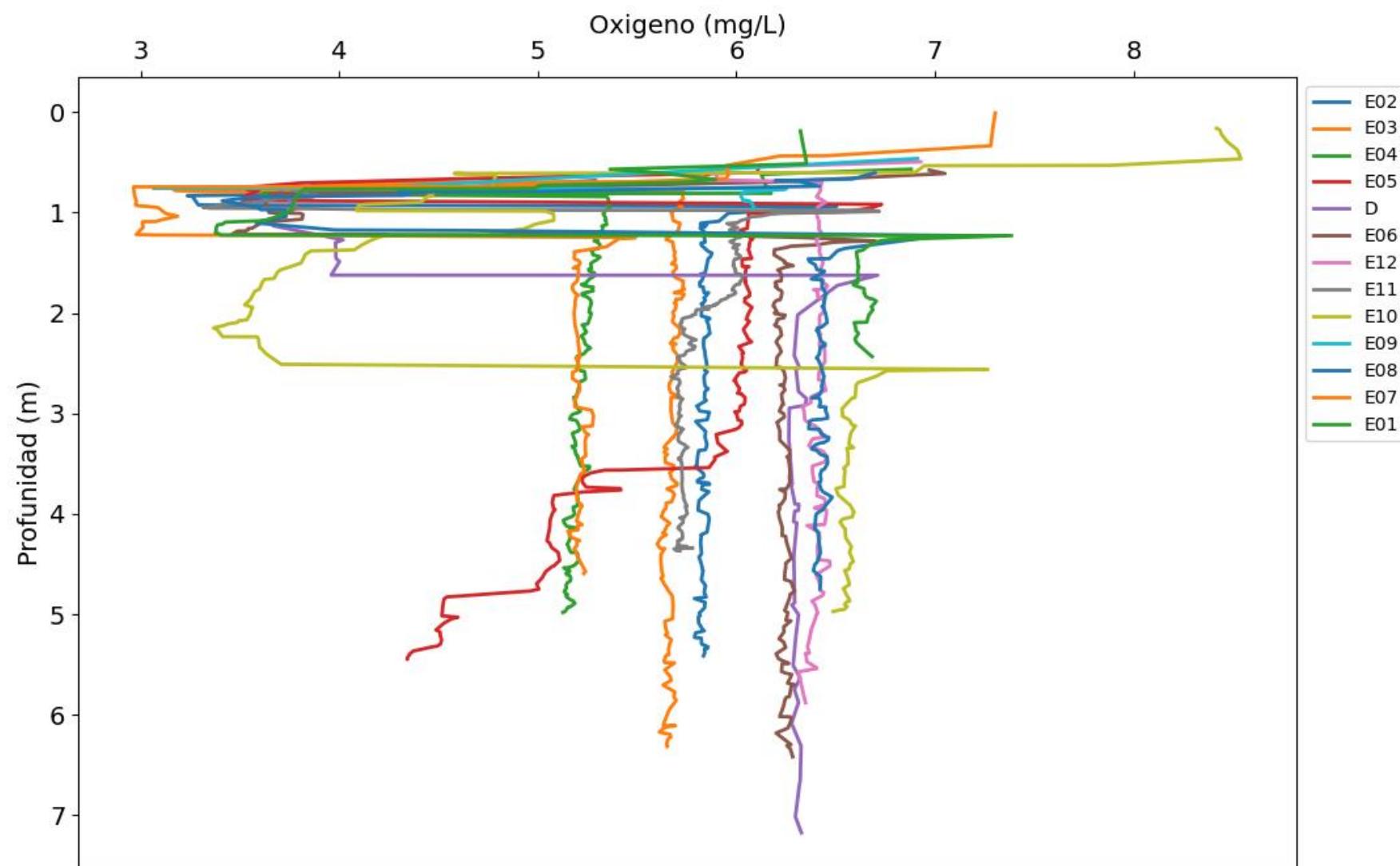


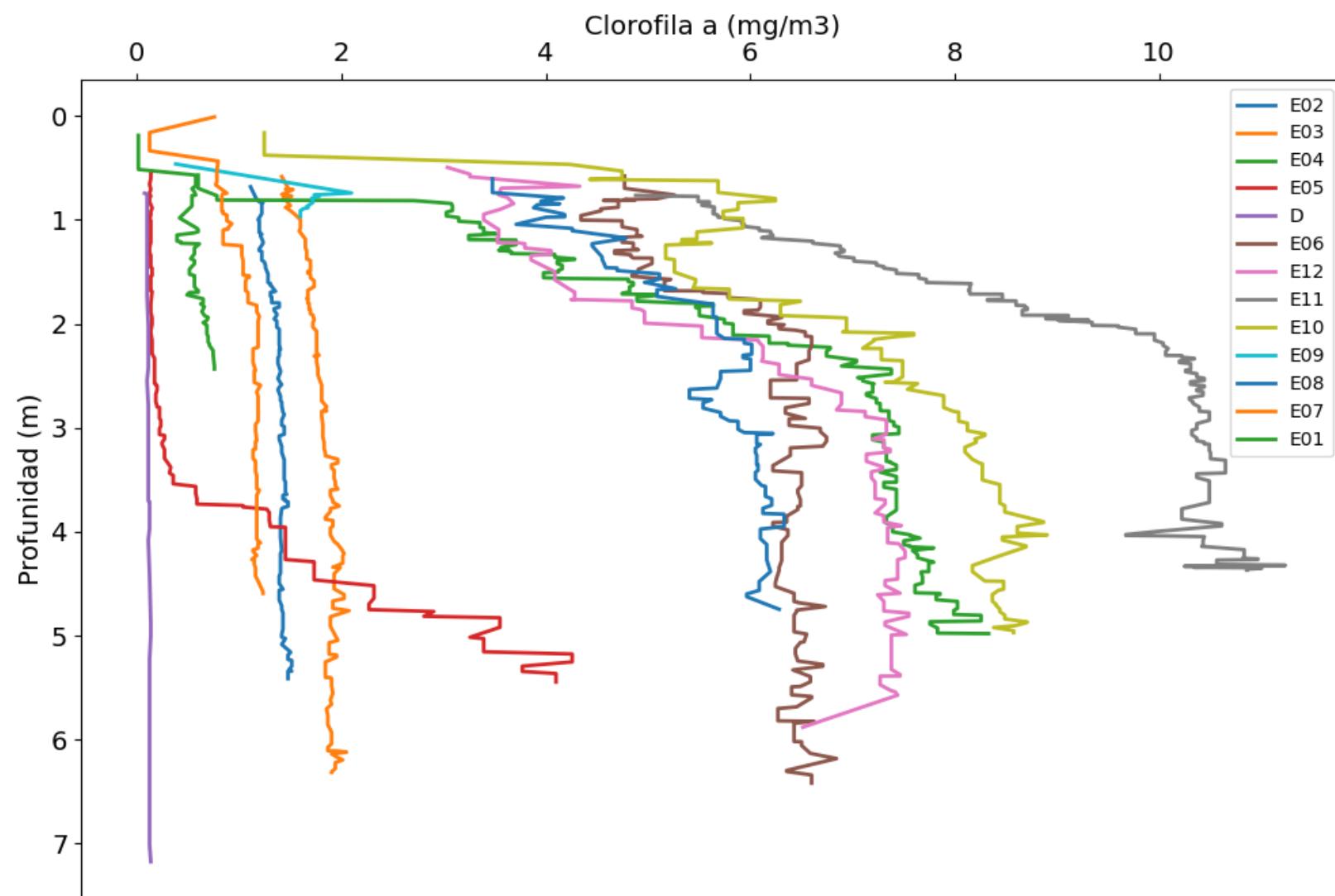
SITUACIÓN GENERAL

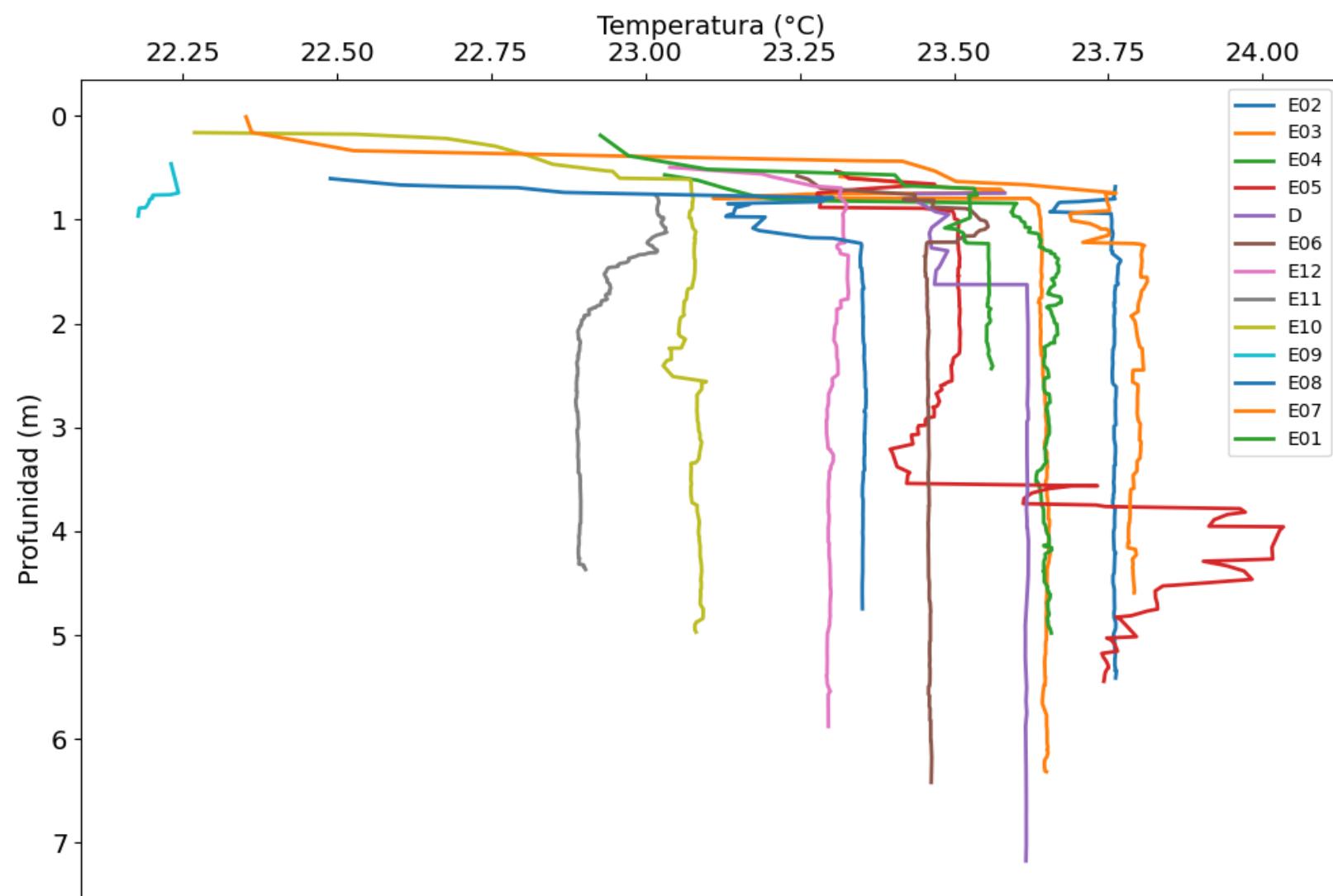
El día 13 de octubre una reducción de la superficie con posible hipoxia respecto al lunes día 11 de octubre. Los niveles medios de oxígeno en fondo han subido en casi todos los puntos y ya no queda ninguno en el Mar Menor por debajo de 4 mg/L, aunque todavía quedan algunos puntos con valores ligeramente inferiores. Los valores más bajos corresponden al fondo en el punto N5F situado en el mediterráneo probablemente debido a la corriente de salida por el canal del Estacio. Los valores de clorofila se mantienen en valores altos (superiores a 2 mg/m³) en 12 estaciones.

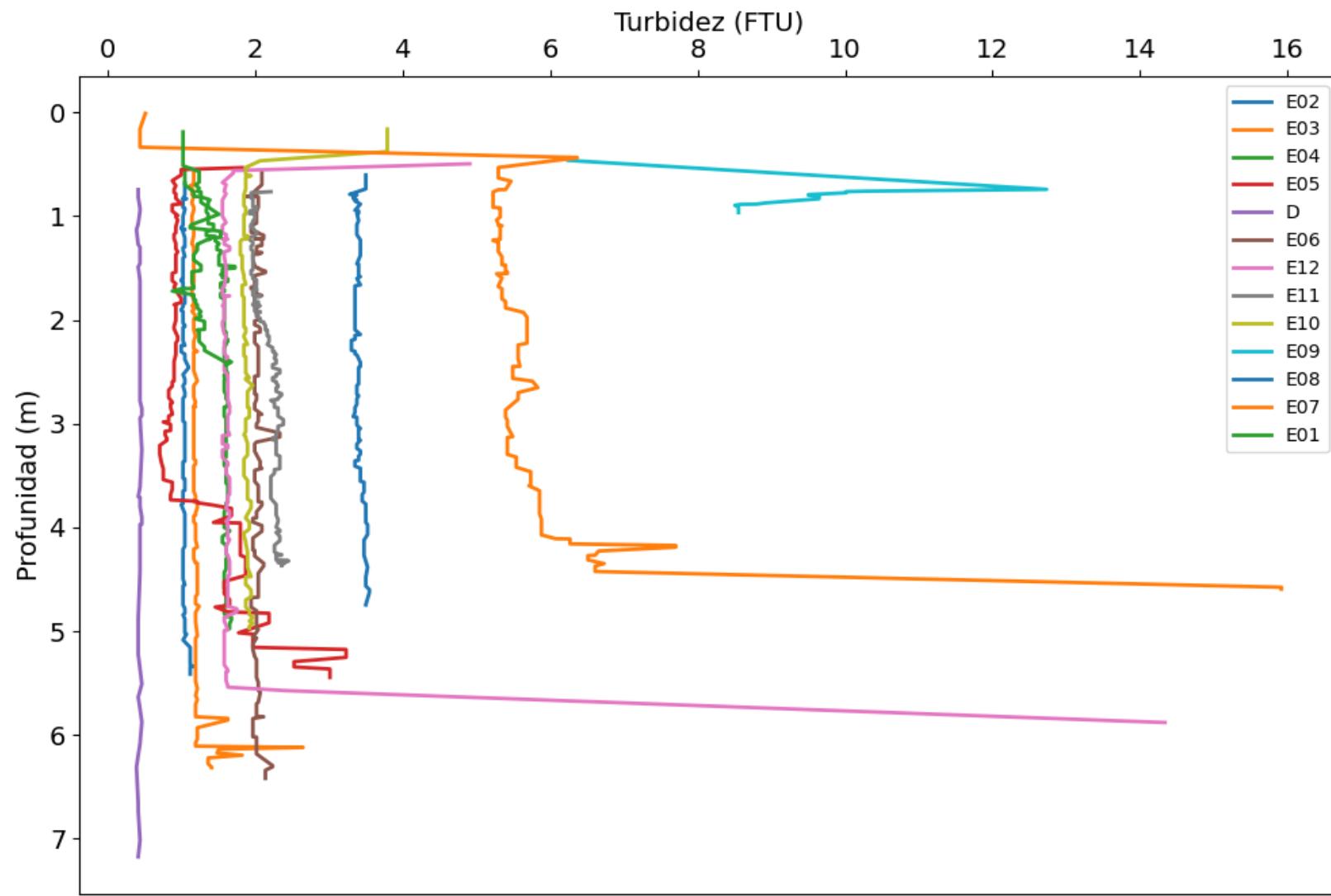


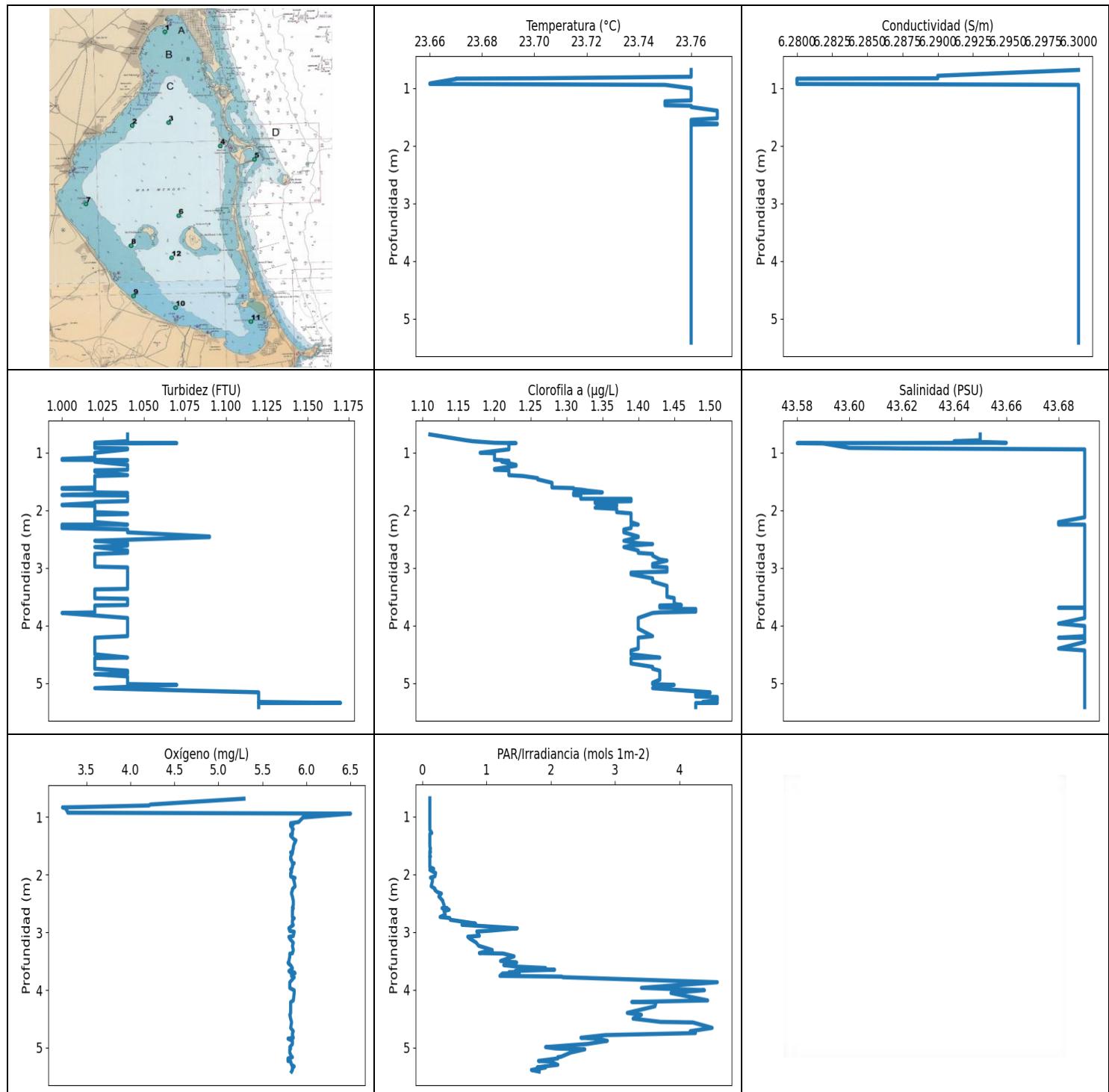












VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE

	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/l)	PAR/Irradiancia (mols 1m ⁻²)	Clorofila (mg/m ³)	Salinidad (PSU)
MÍNIMO	23.66	6.28	1.0	3.23	0.12	1.11	43.58
PROF (metros)	0.916	0.833	1.107	0.833	0.682	0.682	0.833
MÁXIMO	23.77	23.77	1.17	6.51	4.59	1.51	43.69
PROF (metros)	1.389	0.682	5.342	0.941	3.867	5.238	0.941

DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNAS DE AGUA

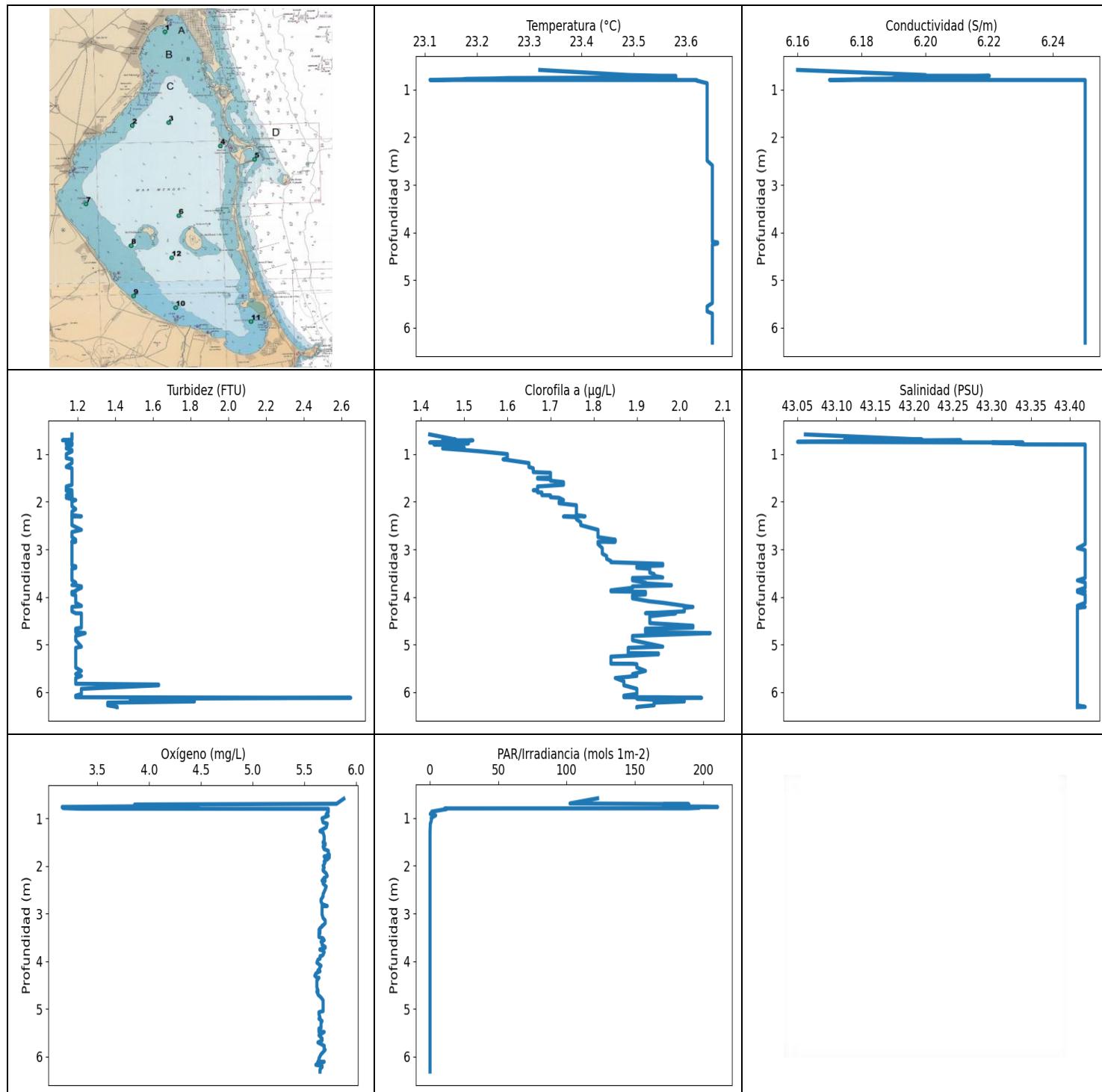
CTD E02 - Punto 001	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/L)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m3)	Salinidad (PSU)
0 - 1m	23.71	6.29	1.04	4.08	0.12	1.19	43.63
1 - 2m	23.76	6.3	1.02	5.85	0.13	1.28	43.69
2 - 3m	23.76	6.3	1.03	5.84	0.42	1.4	43.69
3 - 4m	23.76	6.3	1.03	5.83	1.52	1.44	43.69
4 - 5m	23.76	6.3	1.03	5.83	3.47	1.41	43.69
5 - 6m	23.76	6.3	1.11	5.83	2.02	1.48	43.69

OBSERVACIONES GENERALES

DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNAS DE AGUA							
Profundidad (m)	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/L)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m3)	Salinidad (PSU)
0.682	23.76	6.3	1.04	5.29	0.12	1.11	43.65
0.783	23.76	6.29	1.04	4.23	0.12	1.16	43.65
0.8	23.76	6.29	1.04	4.21	0.12	1.17	43.64
0.827	23.7	6.29	1.02	3.46	0.12	1.2	43.66
0.833	23.67	6.28	1.07	3.23	0.12	1.23	43.58
0.839	23.67	6.28	1.02	3.26	0.12	1.22	43.59
0.916	23.66	6.28	1.02	3.29	0.12	1.22	43.6
0.925	23.66	6.28	1.04	3.29	0.12	1.22	43.62
0.941	23.75	6.3	1.04	6.5	0.12	1.22	43.69
1.0	23.76	6.3	1.02	6.03	0.12	1.18	43.69
1.008	23.76	6.3	1.02	5.96	0.12	1.2	43.69
1.087	23.76	6.3	1.02	5.91	0.12	1.2	43.69
1.107	23.76	6.3	1.0	5.82	0.12	1.2	43.69
1.123	23.76	6.3	1.0	5.82	0.12	1.2	43.69
1.126	23.76	6.3	1.04	5.85	0.12	1.21	43.69
1.132	23.76	6.3	1.04	5.83	0.12	1.21	43.69
1.139	23.76	6.3	1.02	5.84	0.12	1.22	43.69
1.154	23.76	6.3	1.02	5.82	0.12	1.21	43.69
1.21	23.76	6.3	1.04	5.85	0.12	1.23	43.69
1.226	23.75	6.3	1.04	5.84	0.12	1.23	43.69
1.281	23.75	6.3	1.04	5.84	0.15	1.2	43.69
1.296	23.75	6.3	1.04	5.84	0.12	1.2	43.69
1.304	23.76	6.3	1.02	5.82	0.12	1.22	43.69
1.326	23.76	6.3	1.02	5.82	0.12	1.22	43.69
1.389	23.77	6.3	1.04	5.86	0.12	1.22	43.69
1.404	23.77	6.3	1.02	5.88	0.12	1.24	43.69
1.44	23.77	6.3	1.02	5.87	0.12	1.26	43.69
1.461	23.77	6.3	1.02	5.86	0.12	1.26	43.69
1.521	23.77	6.3	1.02	5.85	0.12	1.28	43.69
1.548	23.76	6.3	1.02	5.85	0.13	1.28	43.69
1.603	23.76	6.3	1.02	5.84	0.12	1.28	43.69
1.613	23.77	6.3	1.0	5.82	0.13	1.31	43.69
1.625	23.77	6.3	1.0	5.83	0.12	1.31	43.69
1.631	23.76	6.3	1.02	5.84	0.12	1.31	43.69
1.639	23.76	6.3	1.02	5.83	0.12	1.32	43.69
1.658	23.76	6.3	1.02	5.83	0.12	1.33	43.69

1.686	23.76	6.3	1.02	5.82	0.12	1.35	43.69
1.688	23.76	6.3	1.02	5.82	0.13	1.35	43.69
1.697	23.76	6.3	1.04	5.82	0.12	1.31	43.69
1.734	23.76	6.3	1.0	5.82	0.12	1.31	43.69
1.742	23.76	6.3	1.04	5.83	0.12	1.32	43.69
1.759	23.76	6.3	1.04	5.83	0.12	1.32	43.69
1.798	23.76	6.3	1.04	5.84	0.12	1.32	43.69
1.799	23.76	6.3	1.04	5.86	0.12	1.39	43.69
1.84	23.76	6.3	1.04	5.84	0.12	1.39	43.69
1.853	23.76	6.3	1.02	5.84	0.12	1.34	43.69
1.873	23.76	6.3	1.02	5.84	0.12	1.34	43.69
1.903	23.76	6.3	1.0	5.83	0.18	1.37	43.69
1.909	23.76	6.3	1.0	5.82	0.13	1.37	43.69
1.92	23.76	6.3	1.02	5.83	0.12	1.37	43.69
1.953	23.76	6.3	1.02	5.83	0.17	1.34	43.69
1.974	23.76	6.3	1.02	5.82	0.21	1.37	43.69
2.031	23.76	6.3	1.02	5.82	0.2	1.37	43.69
2.052	23.76	6.3	1.04	5.86	0.14	1.39	43.69
2.056	23.76	6.3	1.04	5.87	0.13	1.39	43.69
2.064	23.76	6.3	1.04	5.86	0.16	1.39	43.69
2.073	23.76	6.3	1.02	5.85	0.16	1.39	43.69
2.12	23.76	6.3	1.02	5.86	0.16	1.39	43.69
2.203	23.76	6.3	1.02	5.87	0.14	1.39	43.68
2.246	23.76	6.3	1.04	5.84	0.2	1.4	43.68
2.247	23.76	6.3	1.0	5.84	0.2	1.39	43.69
2.273	23.76	6.3	1.0	5.84	0.2	1.39	43.69
2.307	23.76	6.3	1.0	5.83	0.24	1.39	43.69
2.331	23.76	6.3	1.04	5.83	0.3	1.38	43.69
2.381	23.76	6.3	1.04	5.84	0.26	1.38	43.69
2.453	23.76	6.3	1.09	5.85	0.32	1.4	43.69
2.464	23.76	6.3	1.09	5.85	0.32	1.4	43.69
2.527	23.76	6.3	1.02	5.85	0.34	1.38	43.69
2.57	23.76	6.3	1.04	5.84	0.34	1.4	43.69
2.583	23.76	6.3	1.04	5.85	0.39	1.42	43.69
2.584	23.76	6.3	1.04	5.85	0.31	1.42	43.69
2.61	23.76	6.3	1.04	5.84	0.42	1.39	43.69
2.636	23.76	6.3	1.02	5.84	0.34	1.38	43.69
2.697	23.76	6.3	1.04	5.84	0.36	1.4	43.69
2.737	23.76	6.3	1.04	5.84	0.28	1.4	43.69
2.755	23.76	6.3	1.02	5.86	0.43	1.42	43.69
2.786	23.76	6.3	1.02	5.84	0.44	1.42	43.69
2.851	23.76	6.3	1.02	5.84	0.83	1.43	43.69
2.872	23.76	6.3	1.02	5.85	0.62	1.44	43.69
2.928	23.76	6.3	1.02	5.8	1.4	1.42	43.69
2.932	23.76	6.3	1.02	5.8	1.48	1.42	43.69
2.976	23.76	6.3	1.02	5.81	1.03	1.42	43.69
2.989	23.76	6.3	1.04	5.86	0.85	1.44	43.69
3.063	23.76	6.3	1.04	5.85	0.89	1.44	43.69
3.079	23.76	6.3	1.04	5.8	0.71	1.39	43.69
3.11	23.76	6.3	1.04	5.81	0.74	1.39	43.69
3.18	23.76	6.3	1.04	5.85	0.84	1.42	43.69
3.236	23.76	6.3	1.04	5.84	0.88	1.42	43.69
3.309	23.76	6.3	1.04	5.85	1.09	1.44	43.69
3.362	23.76	6.3	1.04	5.84	0.89	1.44	43.69
3.37	23.76	6.3	1.02	5.81	1.26	1.44	43.69
3.419	23.76	6.3	1.02	5.81	1.43	1.44	43.69
3.499	23.76	6.3	1.02	5.8	1.22	1.44	43.69
3.521	23.76	6.3	1.02	5.8	1.42	1.45	43.69

3.526	23.76	6.3	1.02	5.79	1.47	1.45	43.69
3.534	23.76	6.3	1.04	5.8	1.32	1.45	43.69
3.55	23.76	6.3	1.04	5.8	1.33	1.45	43.69
3.57	23.76	6.3	1.04	5.82	1.27	1.45	43.69
3.596	23.76	6.3	1.04	5.83	1.46	1.45	43.69
3.621	23.76	6.3	1.04	5.84	1.92	1.45	43.69
3.642	23.76	6.3	1.04	5.83	1.63	1.46	43.69
3.65	23.76	6.3	1.02	5.82	2.06	1.43	43.69
3.671	23.76	6.3	1.02	5.8	1.45	1.43	43.69
3.687	23.76	6.3	1.02	5.81	1.45	1.43	43.69
3.69	23.76	6.3	1.02	5.85	1.43	1.45	43.68
3.693	23.76	6.3	1.02	5.86	1.35	1.45	43.69
3.708	23.76	6.3	1.02	5.87	1.38	1.45	43.69
3.711	23.76	6.3	1.02	5.83	1.51	1.48	43.69
3.716	23.76	6.3	1.02	5.83	1.25	1.48	43.69
3.757	23.76	6.3	1.02	5.83	1.21	1.48	43.69
3.77	23.76	6.3	1.02	5.85	2.17	1.43	43.69
3.78	23.76	6.3	1.0	5.86	2.19	1.42	43.69
3.867	23.76	6.3	1.04	5.81	4.59	1.4	43.69
3.964	23.76	6.3	1.04	5.81	3.41	1.4	43.68
4.005	23.76	6.3	1.04	5.86	4.39	1.4	43.69
4.053	23.76	6.3	1.04	5.86	3.87	1.4	43.69
4.182	23.76	6.3	1.04	5.85	4.44	1.42	43.69
4.209	23.76	6.3	1.02	5.82	3.26	1.4	43.68
4.211	23.76	6.3	1.02	5.82	3.64	1.4	43.69
4.284	23.76	6.3	1.02	5.82	3.62	1.4	43.69
4.398	23.76	6.3	1.02	5.82	3.19	1.4	43.68
4.43	23.76	6.3	1.02	5.81	3.41	1.39	43.69
4.497	23.76	6.3	1.02	5.82	3.28	1.39	43.69
4.554	23.76	6.3	1.04	5.83	3.71	1.43	43.69
4.563	23.76	6.3	1.02	5.83	4.21	1.39	43.69
4.657	23.76	6.3	1.02	5.82	4.51	1.39	43.69
4.715	23.76	6.3	1.02	5.85	4.17	1.42	43.69
4.747	23.76	6.3	1.02	5.84	4.25	1.42	43.69
4.782	23.76	6.3	1.04	5.84	2.85	1.43	43.69
4.828	23.76	6.3	1.04	5.85	2.47	1.43	43.69
4.843	23.76	6.3	1.02	5.79	2.72	1.43	43.69
4.881	23.76	6.3	1.04	5.84	2.88	1.43	43.69
4.936	23.76	6.3	1.04	5.84	2.57	1.43	43.69
4.99	23.76	6.3	1.04	5.81	1.92	1.42	43.69
5.014	23.76	6.3	1.04	5.82	2.08	1.42	43.69
5.028	23.76	6.3	1.07	5.81	2.53	1.45	43.69
5.085	23.76	6.3	1.02	5.81	2.31	1.42	43.69
5.157	23.76	6.3	1.12	5.83	2.16	1.5	43.69
5.164	23.76	6.3	1.12	5.84	2.11	1.5	43.69
5.186	23.76	6.3	1.12	5.79	2.11	1.48	43.69
5.23	23.76	6.3	1.12	5.79	1.81	1.48	43.69
5.238	23.76	6.3	1.12	5.82	1.98	1.51	43.69
5.296	23.76	6.3	1.12	5.83	2.11	1.51	43.69
5.324	23.76	6.3	1.12	5.86	1.9	1.49	43.69
5.342	23.76	6.3	1.17	5.85	1.79	1.51	43.69
5.343	23.76	6.3	1.12	5.84	1.92	1.48	43.69
5.386	23.76	6.3	1.12	5.84	1.7	1.48	43.69
5.414	23.76	6.3	1.12	5.83	1.82	1.48	43.69



VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE

	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/l)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m³)	Salinidad (PSU)
MÍNIMO	23.11	6.16	1.12	3.16	0.12	1.42	43.05
PROF (metros)	0.794	0.584	0.707	0.758	1.26	0.584	0.74
MÁXIMO	23.66	23.66	2.65	5.88	210.52	2.07	43.42
PROF (metros)	4.209	0.796	6.121	0.584	0.765	4.76	0.796

DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNAS DE AGUA

CTD E03 - Punto 002	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/L)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m3)	Salinidad (PSU)
0 - 1m	23.45	6.21	1.15	4.64	108.27	1.47	43.31
1 - 2m	23.64	6.25	1.16	5.7	0.19	1.68	43.42
2 - 3m	23.64	6.25	1.17	5.69	0.12	1.78	43.42
3 - 4m	23.65	6.25	1.18	5.67	0.12	1.9	43.42
4 - 5m	23.65	6.25	1.2	5.64	0.12	1.97	43.41
5 - 6m	23.65	6.25	1.23	5.66	0.12	1.89	43.41
6 - 7m	23.65	6.25	1.48	5.65	0.12	1.93	43.41

OBSERVACIONES GENERALES

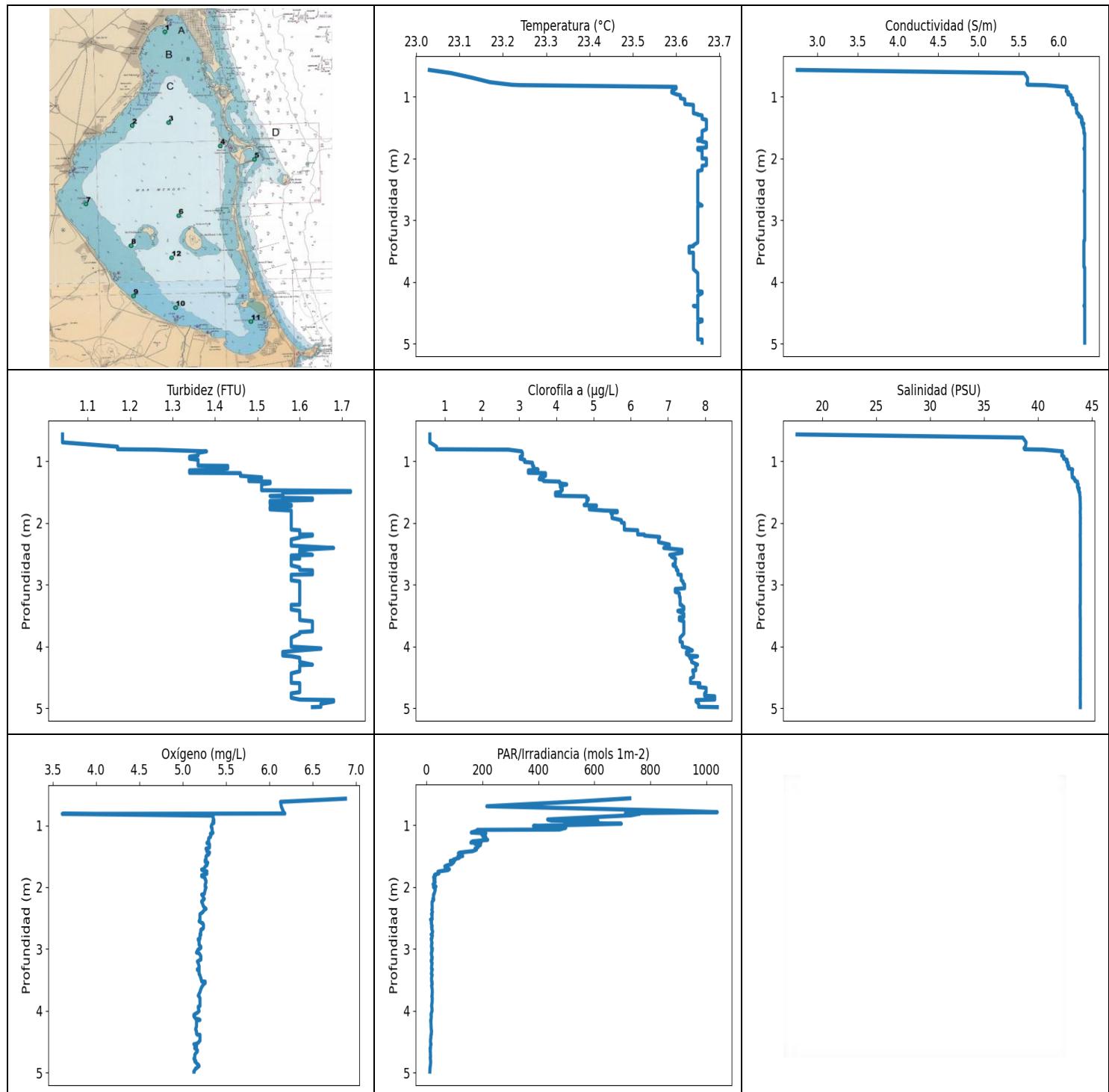
DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNAS DE AGUA

Profundidad (m)	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/L)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m3)	Salinidad (PSU)
0.584	23.32	6.16	1.17	5.88	122.72	1.42	43.06
0.691	23.49	6.2	1.17	5.81	102.56	1.48	43.21
0.707	23.55	6.2	1.12	3.86	189.48	1.45	43.11
0.708	23.58	6.22	1.14	4.48	171.1	1.52	43.26
0.74	23.58	6.2	1.14	4.17	170.99	1.46	43.05
0.755	23.26	6.19	1.14	3.24	182.04	1.42	43.34
0.758	23.25	6.19	1.17	3.16	203.63	1.44	43.3
0.765	23.23	6.19	1.17	3.16	210.52	1.44	43.32
0.772	23.18	6.18	1.14	3.17	177.63	1.51	43.34
0.782	23.17	6.18	1.14	3.17	197.14	1.49	43.33
0.794	23.11	6.17	1.14	3.33	189.44	1.43	43.34
0.796	23.62	6.25	1.17	5.73	10.93	1.45	43.42
0.809	23.62	6.25	1.17	5.73	12.2	1.45	43.42
0.863	23.64	6.25	1.14	5.73	1.37	1.5	43.42
0.879	23.64	6.25	1.14	5.72	1.64	1.45	43.42
0.912	23.64	6.25	1.17	5.71	0.29	1.5	43.42
0.942	23.64	6.25	1.17	5.73	4.25	1.54	43.42
0.997	23.64	6.25	1.14	5.67	0.92	1.6	43.42
1.004	23.64	6.25	1.14	5.67	1.31	1.6	43.42
1.082	23.64	6.25	1.14	5.68	0.83	1.6	43.42
1.107	23.64	6.25	1.17	5.72	0.36	1.59	43.42
1.186	23.64	6.25	1.17	5.71	0.25	1.65	43.42
1.26	23.64	6.25	1.14	5.65	0.12	1.65	43.42
1.268	23.64	6.25	1.14	5.65	0.12	1.65	43.42
1.296	23.64	6.25	1.17	5.68	0.12	1.66	43.42
1.376	23.64	6.25	1.17	5.69	0.12	1.66	43.42
1.391	23.64	6.25	1.17	5.69	0.12	1.7	43.42
1.428	23.64	6.25	1.17	5.69	0.12	1.7	43.42
1.469	23.64	6.25	1.17	5.69	0.12	1.7	43.42
1.492	23.64	6.25	1.17	5.69	0.12	1.7	43.42
1.495	23.64	6.25	1.17	5.68	0.12	1.67	43.42
1.513	23.64	6.25	1.17	5.68	0.12	1.67	43.42
1.524	23.64	6.25	1.17	5.7	0.12	1.7	43.42
1.557	23.64	6.25	1.17	5.7	0.12	1.7	43.42
1.587	23.64	6.25	1.17	5.68	0.12	1.73	43.42

1.594	23.64	6.25	1.17	5.68	0.12	1.73	43.42
1.643	23.64	6.25	1.17	5.69	0.12	1.73	43.42
1.678	23.64	6.25	1.14	5.73	0.12	1.67	43.42
1.682	23.64	6.25	1.14	5.73	0.12	1.67	43.42
1.754	23.64	6.25	1.14	5.73	0.12	1.67	43.42
1.757	23.64	6.25	1.17	5.74	0.12	1.66	43.42
1.768	23.64	6.25	1.14	5.74	0.12	1.67	43.42
1.798	23.64	6.25	1.17	5.69	0.12	1.67	43.42
1.801	23.64	6.25	1.17	5.69	0.12	1.67	43.42
1.804	23.64	6.25	1.17	5.73	0.12	1.68	43.42
1.818	23.64	6.25	1.17	5.74	0.12	1.68	43.42
1.861	23.64	6.25	1.17	5.72	0.12	1.68	43.42
1.864	23.64	6.25	1.14	5.7	0.13	1.7	43.42
1.875	23.64	6.25	1.17	5.7	0.12	1.7	43.42
1.904	23.64	6.25	1.17	5.69	0.12	1.7	43.42
1.916	23.64	6.25	1.14	5.7	0.12	1.72	43.42
1.963	23.64	6.25	1.19	5.69	0.12	1.73	43.42
1.992	23.64	6.25	1.17	5.68	0.12	1.72	43.42
2.032	23.64	6.25	1.17	5.69	0.12	1.72	43.42
2.072	23.64	6.25	1.17	5.68	0.12	1.76	43.42
2.094	23.64	6.25	1.17	5.68	0.12	1.76	43.42
2.153	23.64	6.25	1.19	5.71	0.12	1.76	43.42
2.205	23.64	6.25	1.17	5.72	0.12	1.76	43.42
2.243	23.64	6.25	1.17	5.7	0.12	1.76	43.42
2.247	23.64	6.25	1.17	5.69	0.12	1.76	43.42
2.279	23.64	6.25	1.17	5.68	0.12	1.76	43.42
2.304	23.64	6.25	1.22	5.67	0.12	1.78	43.42
2.31	23.64	6.25	1.17	5.7	0.12	1.73	43.42
2.324	23.64	6.25	1.17	5.68	0.12	1.76	43.42
2.367	23.64	6.25	1.17	5.68	0.12	1.76	43.42
2.43	23.64	6.25	1.17	5.71	0.12	1.77	43.42
2.491	23.64	6.25	1.17	5.7	0.12	1.77	43.42
2.589	23.65	6.25	1.22	5.68	0.12	1.81	43.42
2.635	23.65	6.25	1.17	5.68	0.12	1.81	43.42
2.702	23.65	6.25	1.17	5.66	0.12	1.81	43.42
2.742	23.65	6.25	1.17	5.66	0.12	1.81	43.42
2.797	23.65	6.25	1.19	5.67	0.12	1.85	43.42
2.832	23.65	6.25	1.17	5.71	0.12	1.83	43.42
2.838	23.65	6.25	1.19	5.72	0.12	1.85	43.42
2.842	23.65	6.25	1.17	5.67	0.12	1.81	43.42
2.888	23.65	6.25	1.17	5.67	0.12	1.81	43.42
2.974	23.65	6.25	1.17	5.67	0.12	1.82	43.41
3.015	23.65	6.25	1.17	5.67	0.12	1.82	43.42
3.09	23.65	6.25	1.17	5.68	0.12	1.82	43.42
3.14	23.65	6.25	1.17	5.7	0.12	1.83	43.42
3.149	23.65	6.25	1.17	5.7	0.12	1.83	43.42
3.199	23.65	6.25	1.17	5.7	0.12	1.83	43.42
3.244	23.65	6.25	1.17	5.68	0.12	1.84	43.42
3.245	23.65	6.25	1.17	5.68	0.12	1.84	43.42
3.252	23.65	6.25	1.17	5.67	0.14	1.84	43.42
3.27	23.65	6.25	1.17	5.67	0.12	1.84	43.42
3.304	23.65	6.25	1.17	5.65	0.12	1.96	43.42
3.339	23.65	6.25	1.17	5.64	0.12	1.96	43.42
3.355	23.65	6.25	1.19	5.65	0.12	1.9	43.42
3.361	23.65	6.25	1.19	5.65	0.12	1.9	43.42
3.388	23.65	6.25	1.19	5.64	0.12	1.9	43.42
3.407	23.65	6.25	1.17	5.65	0.12	1.93	43.42
3.431	23.65	6.25	1.17	5.64	0.12	1.93	43.42

3.489	23.65	6.25	1.17	5.64	0.12	1.93	43.42
3.518	23.65	6.25	1.17	5.68	0.12	1.94	43.42
3.556	23.65	6.25	1.17	5.69	0.12	1.94	43.42
3.591	23.65	6.25	1.17	5.66	0.12	1.96	43.42
3.601	23.65	6.25	1.17	5.67	0.12	1.89	43.42
3.651	23.65	6.25	1.17	5.67	0.12	1.89	43.41
3.697	23.65	6.25	1.19	5.7	0.12	1.92	43.42
3.716	23.65	6.25	1.19	5.7	0.12	1.92	43.42
3.749	23.65	6.25	1.17	5.65	0.12	1.98	43.42
3.75	23.65	6.25	1.17	5.66	0.12	1.98	43.42
3.756	23.65	6.25	1.19	5.65	0.12	1.98	43.42
3.777	23.65	6.25	1.22	5.68	0.12	1.89	43.42
3.807	23.65	6.25	1.22	5.69	0.12	1.89	43.42
3.861	23.65	6.25	1.19	5.68	0.12	1.84	43.41
3.881	23.65	6.25	1.19	5.67	0.12	1.84	43.42
3.892	23.65	6.25	1.17	5.65	0.12	1.92	43.41
3.947	23.65	6.25	1.17	5.65	0.12	1.92	43.42
3.966	23.65	6.25	1.19	5.63	0.12	1.89	43.42
4.03	23.65	6.25	1.19	5.62	0.13	1.89	43.42
4.093	23.65	6.25	1.19	5.66	0.12	1.93	43.42
4.122	23.65	6.25	1.19	5.65	0.12	1.96	43.42
4.186	23.65	6.25	1.22	5.64	0.12	2.01	43.41
4.191	23.65	6.25	1.22	5.63	0.12	2.01	43.41
4.209	23.66	6.25	1.17	5.65	0.12	2.03	43.42
4.232	23.66	6.25	1.17	5.63	0.12	2.01	43.41
4.256	23.65	6.25	1.17	5.61	0.12	2.01	43.41
4.303	23.65	6.25	1.17	5.6	0.12	2.01	43.41
4.343	23.65	6.25	1.19	5.62	0.12	1.92	43.41
4.345	23.65	6.25	1.22	5.64	0.12	1.99	43.41
4.405	23.65	6.25	1.22	5.62	0.12	1.93	43.41
4.467	23.65	6.25	1.22	5.62	0.12	1.93	43.41
4.55	23.65	6.25	1.22	5.62	0.12	1.93	43.41
4.605	23.65	6.25	1.22	5.63	0.12	2.03	43.41
4.623	23.65	6.25	1.22	5.63	0.12	2.03	43.41
4.63	23.65	6.25	1.22	5.62	0.12	2.03	43.41
4.644	23.65	6.25	1.22	5.62	0.12	2.03	43.41
4.667	23.65	6.25	1.19	5.63	0.12	1.92	43.41
4.681	23.65	6.25	1.19	5.63	0.12	1.92	43.41
4.695	23.65	6.25	1.19	5.63	0.12	1.92	43.41
4.72	23.65	6.25	1.19	5.64	0.12	1.92	43.41
4.737	23.65	6.25	1.19	5.65	0.12	1.92	43.41
4.76	23.65	6.25	1.24	5.66	0.12	2.07	43.41
4.819	23.65	6.25	1.19	5.68	0.12	1.89	43.41
4.91	23.65	6.25	1.19	5.68	0.12	1.89	43.41
5.045	23.65	6.25	1.22	5.68	0.12	1.96	43.41
5.069	23.65	6.25	1.19	5.64	0.12	1.88	43.41
5.108	23.65	6.25	1.19	5.64	0.12	1.88	43.41
5.179	23.65	6.25	1.19	5.65	0.12	1.88	43.41
5.186	23.65	6.25	1.19	5.65	0.12	1.95	43.41
5.206	23.65	6.25	1.19	5.64	0.12	1.95	43.41
5.254	23.65	6.25	1.19	5.67	0.12	1.84	43.41
5.296	23.65	6.25	1.19	5.66	0.12	1.84	43.41
5.353	23.65	6.25	1.19	5.66	0.12	1.84	43.41
5.402	23.65	6.25	1.19	5.66	0.13	1.84	43.41
5.404	23.65	6.25	1.19	5.65	0.12	1.89	43.41
5.413	23.65	6.25	1.19	5.64	0.12	1.9	43.41
5.433	23.65	6.25	1.19	5.64	0.13	1.9	43.41
5.459	23.65	6.25	1.19	5.64	0.12	1.9	43.41

5.481	23.65	6.25	1.19	5.64	0.12	1.9	43.41
5.484	23.65	6.25	1.19	5.69	0.12	1.9	43.41
5.554	23.64	6.25	1.22	5.64	0.12	1.92	43.41
5.621	23.64	6.25	1.19	5.67	0.12	1.89	43.41
5.66	23.64	6.25	1.22	5.67	0.12	1.9	43.41
5.704	23.65	6.25	1.19	5.63	0.12	1.85	43.41
5.773	23.65	6.25	1.19	5.69	0.12	1.87	43.41
5.825	23.65	6.25	1.19	5.69	0.12	1.87	43.41
5.841	23.65	6.25	1.63	5.69	0.12	1.87	43.41
5.857	23.65	6.25	1.63	5.7	0.12	1.87	43.41
5.931	23.65	6.25	1.22	5.67	0.13	1.9	43.41
5.951	23.65	6.25	1.22	5.66	0.12	1.9	43.41
6.04	23.65	6.25	1.22	5.64	0.12	1.9	43.41
6.075	23.65	6.25	1.19	5.64	0.12	1.87	43.41
6.108	23.65	6.25	1.19	5.63	0.13	1.87	43.41
6.109	23.65	6.25	1.24	5.69	0.12	1.95	43.41
6.121	23.65	6.25	2.65	5.65	0.12	2.05	43.41
6.138	23.65	6.25	1.51	5.63	0.12	1.9	43.41
6.174	23.65	6.25	1.48	5.61	0.12	1.96	43.41
6.196	23.65	6.25	1.82	5.67	0.12	2.01	43.41
6.222	23.65	6.25	1.36	5.67	0.12	1.94	43.41
6.239	23.65	6.25	1.36	5.66	0.12	1.94	43.41
6.278	23.65	6.25	1.36	5.65	0.12	1.94	43.41
6.311	23.65	6.25	1.41	5.65	0.12	1.9	43.42
6.316	23.65	6.25	1.41	5.65	0.12	1.9	43.41



VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE

	Temp. ($^{\circ}\text{C}$)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/l)	PAR/Irradiancia (mols 1m^{-2})	Clorofila (mg/ m^3)	Salinidad (PSU)
MÍNIMO	23.03	2.75	1.05	3.61	11.87	0.6	17.63
PROF (metros)	0.569	0.569	0.569	0.815	4.976	0.569	0.569
MÁXIMO	23.67	23.67	1.73	6.88	1039.1	8.33	43.94
PROF (metros)	1.376	1.594	1.485	0.569	0.792	4.981	1.754

DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNAS DE AGUA

CTD E04 - Punto 003	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/L)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m3)	Salinidad (PSU)
0 - 1m	23.38	5.67	1.24	5.62	636.09	2.02	39.18
1 - 2m	23.65	6.28	1.52	5.28	132.77	4.38	43.63
2 - 3m	23.65	6.32	1.6	5.22	20.3	6.98	43.93
3 - 4m	23.64	6.32	1.6	5.2	19.02	7.36	43.93
4 - 5m	23.65	6.32	1.6	5.16	14.87	7.79	43.93

OBSERVACIONES GENERALES

CLOROFILA elevada en la(s) columna(s) de agua 0 - 1m, 1 - 2m, 2 - 3m, 3 - 4m, 4 - 5m con los valores 2.02, 4.38, 6.98, 7.36, 7.79 respectivamente

DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNAS DE AGUA

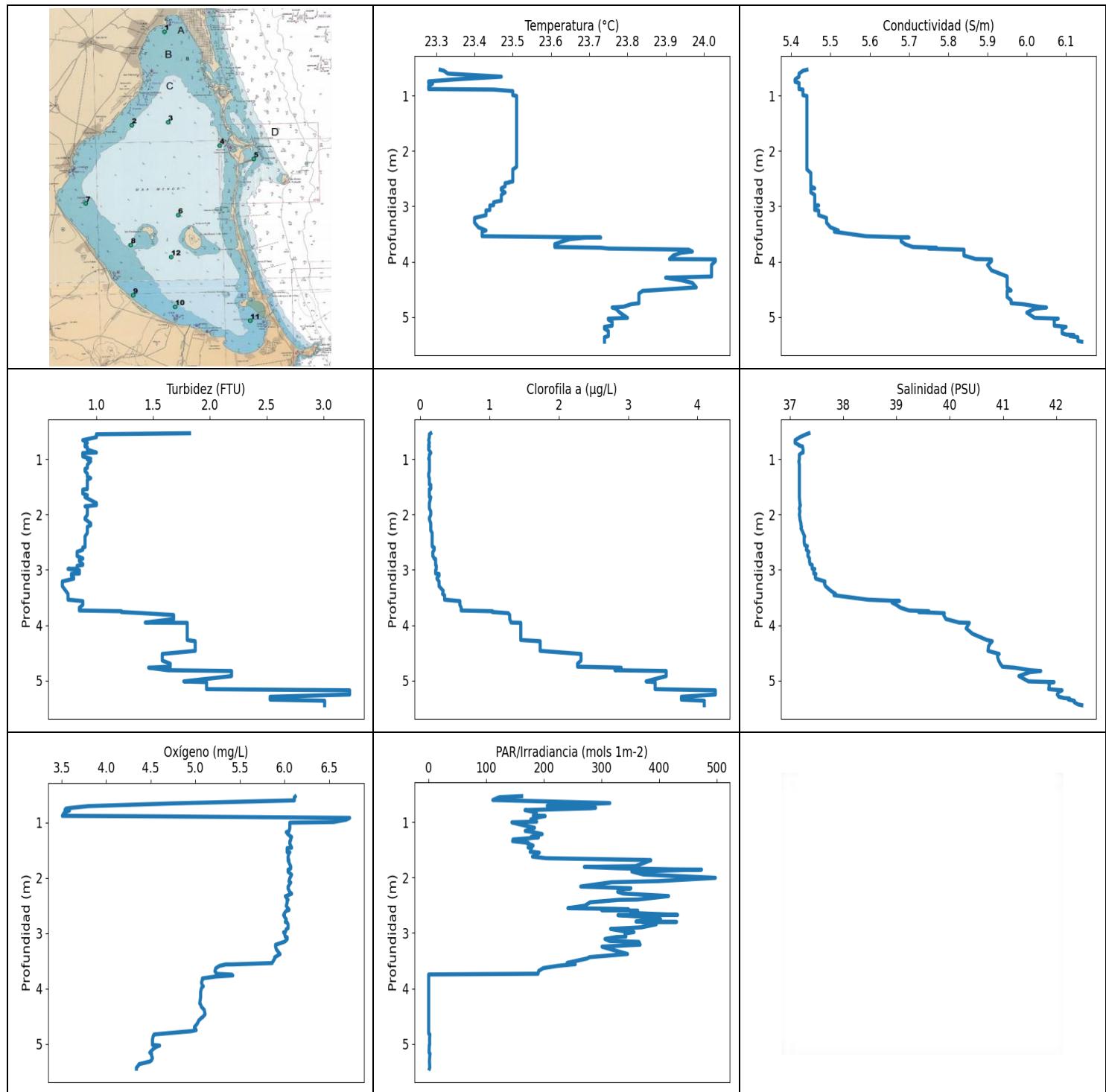
Profundidad (m)	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/L)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m3)	Salinidad (PSU)
0.569	23.03	2.75	1.04	6.88	726.48	0.6	17.63
0.62	23.08	5.57	1.04	6.13	542.49	0.6	38.59
0.697	23.13	5.61	1.04	6.14	215.46	0.6	38.9
0.767	23.17	5.61	1.17	6.16	872.77	0.78	38.83
0.792	23.2	5.6	1.17	6.17	1039.1	0.78	38.7
0.809	23.22	5.61	1.17	6.18	710.91	0.78	38.76
0.815	23.24	5.83	1.26	3.61	762.66	2.71	40.52
0.843	23.6	6.1	1.38	5.35	731.75	3.07	42.28
0.868	23.6	6.1	1.36	5.35	621.49	3.09	42.27
0.91	23.59	6.09	1.36	5.36	432.79	3.09	42.2
0.928	23.59	6.12	1.34	5.35	445.77	3.03	42.42
0.934	23.59	6.11	1.34	5.36	612.45	3.03	42.38
0.962	23.6	6.11	1.34	5.36	495.06	3.03	42.38
0.979	23.61	6.15	1.36	5.34	696.12	3.15	42.7
1.014	23.61	6.15	1.36	5.33	382.27	3.15	42.63
1.027	23.61	6.17	1.36	5.33	412.89	3.36	42.79
1.044	23.62	6.16	1.36	5.34	497.77	3.36	42.75
1.073	23.62	6.16	1.36	5.34	475.09	3.36	42.73
1.078	23.62	6.18	1.43	5.34	181.6	3.39	42.87
1.091	23.62	6.17	1.43	5.34	181.64	3.39	42.82
1.121	23.62	6.17	1.43	5.35	159.87	3.39	42.82
1.135	23.64	6.22	1.41	5.32	212.09	3.51	43.22
1.15	23.64	6.22	1.34	5.33	197.78	3.25	43.21
1.19	23.64	6.21	1.34	5.32	202.74	3.25	43.14
1.195	23.64	6.22	1.46	5.31	212.09	3.71	43.19
1.212	23.64	6.22	1.46	5.3	204.39	3.71	43.16
1.239	23.64	6.22	1.46	5.3	218.5	3.71	43.18
1.263	23.64	6.22	1.51	5.3	166.3	3.56	43.18
1.269	23.64	6.24	1.51	5.3	178.41	3.56	43.35
1.27	23.64	6.24	1.51	5.29	161.74	3.56	43.35
1.284	23.65	6.24	1.48	5.28	158.55	3.64	43.33
1.285	23.65	6.24	1.48	5.3	194.78	3.64	43.37
1.293	23.65	6.24	1.48	5.29	184.08	3.54	43.36
1.304	23.66	6.26	1.48	5.31	173.48	3.66	43.46
1.324	23.66	6.25	1.48	5.31	192.74	3.66	43.44

1.332	23.66	6.28	1.53	5.31	187.74	4.09	43.67
1.359	23.66	6.28	1.53	5.31	183.96	4.09	43.64
1.376	23.67	6.29	1.51	5.27	174.81	4.28	43.74
1.381	23.67	6.29	1.51	5.27	173.21	4.28	43.69
1.396	23.67	6.28	1.51	5.28	178.52	4.11	43.66
1.421	23.67	6.28	1.51	5.28	165.65	4.11	43.66
1.439	23.67	6.31	1.51	5.31	131.8	4.16	43.83
1.445	23.67	6.3	1.51	5.31	119.02	4.16	43.76
1.457	23.67	6.29	1.51	5.3	113.7	4.16	43.73
1.472	23.67	6.3	1.51	5.3	119.57	4.16	43.78
1.485	23.67	6.3	1.72	5.28	127.63	4.12	43.82
1.501	23.67	6.3	1.72	5.27	129.23	4.12	43.81
1.51	23.67	6.31	1.56	5.27	111.77	3.98	43.88
1.529	23.67	6.31	1.56	5.27	117.39	3.98	43.88
1.557	23.66	6.31	1.56	5.27	96.44	3.98	43.88
1.564	23.66	6.31	1.53	5.26	98.72	4.21	43.89
1.57	23.66	6.31	1.56	5.26	100.84	4.81	43.9
1.579	23.66	6.31	1.56	5.26	84.72	4.81	43.91
1.588	23.66	6.31	1.56	5.26	98.79	4.81	43.9
1.592	23.66	6.31	1.56	5.27	90.9	4.81	43.9
1.594	23.66	6.32	1.56	5.28	86.48	4.81	43.91
1.604	23.66	6.32	1.63	5.29	96.27	4.86	43.92
1.629	23.66	6.32	1.63	5.28	90.33	4.86	43.91
1.645	23.66	6.32	1.53	5.28	78.55	4.82	43.92
1.65	23.66	6.32	1.53	5.27	73.75	4.82	43.92
1.667	23.66	6.32	1.53	5.26	65.42	4.82	43.92
1.692	23.65	6.32	1.53	5.25	74.61	4.82	43.93
1.708	23.65	6.32	1.58	5.24	66.44	4.75	43.92
1.714	23.65	6.32	1.58	5.22	81.53	4.75	43.93
1.718	23.66	6.32	1.58	5.22	73.05	5.08	43.93
1.728	23.66	6.32	1.58	5.23	76.9	5.08	43.93
1.744	23.67	6.32	1.53	5.28	51.04	4.89	43.93
1.754	23.67	6.32	1.53	5.27	40.82	4.89	43.94
1.782	23.67	6.32	1.53	5.28	44.19	4.89	43.93
1.8	23.67	6.32	1.58	5.24	30.25	5.29	43.92
1.807	23.67	6.32	1.58	5.22	28.38	5.64	43.92
1.823	23.67	6.32	1.58	5.22	31.49	5.64	43.92
1.829	23.66	6.32	1.58	5.23	28.29	5.64	43.92
1.831	23.65	6.32	1.58	5.24	28.31	5.47	43.92
1.843	23.65	6.31	1.58	5.25	25.36	5.47	43.92
1.857	23.65	6.32	1.58	5.26	26.06	5.5	43.93
1.872	23.66	6.32	1.58	5.26	30.4	5.5	43.93
1.897	23.66	6.32	1.58	5.27	26.71	5.5	43.93
1.922	23.66	6.32	1.58	5.27	30.93	5.5	43.94
1.956	23.66	6.32	1.58	5.26	23.44	5.75	43.93
1.994	23.66	6.32	1.58	5.26	33.67	5.75	43.93
2.002	23.66	6.32	1.58	5.27	24.84	5.83	43.94
2.004	23.67	6.32	1.58	5.27	25.64	5.83	43.93
2.043	23.67	6.32	1.58	5.26	31.41	5.83	43.93
2.109	23.67	6.32	1.58	5.25	27.41	5.83	43.93
2.119	23.66	6.32	1.6	5.22	25.25	6.19	43.93
2.139	23.66	6.32	1.6	5.23	24.94	6.19	43.93
2.166	23.66	6.32	1.6	5.24	24.94	6.19	43.93
2.187	23.66	6.32	1.6	5.24	24.53	6.19	43.93
2.188	23.66	6.32	1.63	5.25	22.57	6.37	43.92
2.206	23.65	6.32	1.63	5.24	25.8	6.37	43.92
2.227	23.65	6.32	1.6	5.22	22.68	6.78	43.93
2.238	23.65	6.32	1.6	5.22	20.0	6.78	43.93

2.267	23.65	6.32	1.58	5.23	19.75	6.75	43.93
2.311	23.65	6.32	1.58	5.24	20.19	6.75	43.93
2.35	23.65	6.32	1.58	5.27	20.4	7.04	43.93
2.368	23.65	6.32	1.58	5.25	18.94	7.04	43.93
2.406	23.65	6.32	1.68	5.23	21.32	6.89	43.93
2.436	23.65	6.32	1.6	5.2	17.79	7.38	43.93
2.451	23.65	6.32	1.6	5.2	19.86	7.38	43.93
2.483	23.65	6.32	1.6	5.2	19.6	7.38	43.93
2.518	23.65	6.32	1.63	5.2	20.2	7.05	43.93
2.527	23.65	6.31	1.58	5.2	14.44	7.1	43.92
2.55	23.65	6.32	1.58	5.19	17.68	7.1	43.93
2.578	23.65	6.32	1.6	5.22	17.51	7.21	43.93
2.579	23.65	6.32	1.58	5.23	18.07	7.2	43.93
2.604	23.65	6.32	1.58	5.24	17.6	7.2	43.93
2.628	23.65	6.32	1.58	5.24	20.25	7.2	43.93
2.645	23.65	6.32	1.58	5.24	17.86	7.2	43.93
2.66	23.65	6.32	1.58	5.24	18.45	7.2	43.93
2.67	23.65	6.32	1.58	5.23	18.75	7.14	43.94
2.677	23.65	6.32	1.58	5.23	19.53	7.14	43.94
2.678	23.65	6.32	1.58	5.22	20.1	7.14	43.93
2.688	23.65	6.32	1.58	5.21	19.3	7.14	43.93
2.72	23.65	6.32	1.6	5.21	21.96	7.23	43.93
2.762	23.66	6.32	1.6	5.2	19.89	7.23	43.93
2.767	23.65	6.32	1.63	5.21	16.52	7.27	43.93
2.786	23.65	6.32	1.63	5.2	21.08	7.27	43.93
2.817	23.65	6.32	1.63	5.2	19.24	7.27	43.93
2.833	23.65	6.32	1.63	5.2	18.84	7.27	43.93
2.837	23.65	6.32	1.6	5.19	16.7	7.28	43.93
2.838	23.65	6.32	1.6	5.18	18.49	7.28	43.93
2.839	23.65	6.32	1.58	5.18	17.74	7.36	43.93
2.851	23.65	6.32	1.58	5.18	17.6	7.36	43.93
2.875	23.65	6.32	1.58	5.19	18.14	7.36	43.93
2.904	23.65	6.32	1.58	5.19	19.73	7.36	43.93
2.929	23.65	6.32	1.58	5.19	17.93	7.36	43.93
2.946	23.65	6.32	1.6	5.2	18.53	7.41	43.93
2.952	23.65	6.32	1.6	5.2	18.44	7.41	43.93
2.962	23.65	6.32	1.6	5.21	17.42	7.41	43.93
2.98	23.65	6.32	1.6	5.21	18.25	7.41	43.93
2.994	23.65	6.32	1.6	5.2	21.09	7.45	43.93
3.005	23.65	6.32	1.6	5.18	18.53	7.45	43.93
3.028	23.65	6.32	1.6	5.17	20.52	7.45	43.93
3.057	23.65	6.32	1.6	5.16	17.51	7.45	43.93
3.069	23.65	6.32	1.6	5.19	18.4	7.2	43.92
3.088	23.65	6.32	1.6	5.2	17.38	7.2	43.93
3.116	23.65	6.32	1.6	5.21	18.71	7.2	43.93
3.138	23.65	6.32	1.6	5.21	20.51	7.31	43.93
3.154	23.65	6.32	1.6	5.21	19.46	7.31	43.93
3.171	23.65	6.32	1.6	5.21	19.76	7.31	43.93
3.184	23.65	6.32	1.6	5.19	16.7	7.31	43.92
3.193	23.65	6.32	1.6	5.18	17.65	7.31	43.93
3.201	23.65	6.32	1.6	5.17	16.88	7.33	43.93
3.228	23.65	6.32	1.6	5.18	20.07	7.33	43.93
3.277	23.65	6.32	1.6	5.19	18.3	7.33	43.93
3.324	23.65	6.32	1.6	5.19	17.84	7.33	43.93
3.326	23.65	6.32	1.58	5.17	20.39	7.37	43.93
3.334	23.65	6.31	1.58	5.17	20.76	7.37	43.91
3.36	23.65	6.31	1.58	5.19	18.92	7.43	43.91
3.403	23.64	6.31	1.58	5.19	17.21	7.43	43.92

3.422	23.64	6.31	1.6	5.2	20.51	7.27	43.92
3.427	23.63	6.31	1.6	5.2	19.67	7.27	43.92
3.469	23.63	6.31	1.6	5.21	17.92	7.43	43.92
3.524	23.63	6.31	1.6	5.22	18.23	7.43	43.92
3.526	23.64	6.31	1.6	5.26	18.48	7.31	43.92
3.531	23.64	6.31	1.6	5.26	19.74	7.31	43.93
3.55	23.64	6.31	1.6	5.26	19.84	7.31	43.93
3.572	23.64	6.31	1.6	5.24	20.14	7.31	43.93
3.593	23.64	6.31	1.63	5.23	17.95	7.43	43.93
3.616	23.64	6.31	1.63	5.22	18.97	7.43	43.93
3.648	23.64	6.31	1.63	5.21	20.2	7.43	43.93
3.696	23.64	6.31	1.63	5.2	20.65	7.43	43.93
3.754	23.64	6.31	1.63	5.18	19.7	7.43	43.93
3.767	23.64	6.32	1.6	5.19	18.95	7.43	43.93
3.793	23.64	6.32	1.6	5.2	20.39	7.43	43.93
3.857	23.65	6.32	1.58	5.2	20.1	7.33	43.93
3.92	23.65	6.32	1.58	5.2	18.16	7.33	43.93
3.933	23.65	6.32	1.58	5.18	18.54	7.39	43.93
3.952	23.65	6.32	1.58	5.18	19.27	7.39	43.93
4.002	23.65	6.32	1.58	5.19	19.98	7.39	43.93
4.03	23.65	6.32	1.65	5.17	17.49	7.56	43.94
4.036	23.65	6.32	1.65	5.16	17.56	7.56	43.93
4.063	23.65	6.32	1.6	5.13	15.84	7.66	43.93
4.088	23.65	6.32	1.56	5.13	17.14	7.5	43.93
4.124	23.65	6.32	1.56	5.15	16.56	7.5	43.93
4.137	23.65	6.32	1.56	5.19	15.86	7.56	43.93
4.146	23.65	6.32	1.56	5.2	16.3	7.56	43.94
4.157	23.66	6.32	1.58	5.16	15.0	7.8	43.93
4.182	23.66	6.32	1.6	5.16	15.54	7.59	43.92
4.22	23.65	6.32	1.6	5.16	16.18	7.64	43.93
4.251	23.65	6.32	1.6	5.16	16.15	7.64	43.93
4.294	23.65	6.32	1.63	5.15	16.84	7.8	43.93
4.302	23.65	6.32	1.6	5.15	16.98	7.75	43.93
4.331	23.65	6.32	1.6	5.16	17.84	7.75	43.93
4.367	23.65	6.32	1.6	5.16	17.05	7.75	43.93
4.385	23.65	6.31	1.6	5.17	17.35	7.75	43.92
4.386	23.64	6.32	1.6	5.2	16.51	7.67	43.93
4.401	23.65	6.32	1.6	5.2	15.29	7.67	43.93
4.434	23.65	6.32	1.58	5.2	15.77	7.69	43.93
4.464	23.65	6.32	1.58	5.2	14.27	7.69	43.93
4.482	23.65	6.32	1.58	5.2	14.31	7.69	43.93
4.494	23.65	6.32	1.58	5.19	14.31	7.69	43.93
4.515	23.65	6.32	1.58	5.18	14.26	7.61	43.94
4.536	23.65	6.32	1.58	5.15	16.21	7.61	43.92
4.538	23.65	6.32	1.58	5.13	15.55	7.61	43.93
4.563	23.65	6.32	1.58	5.16	14.48	7.61	43.93
4.57	23.65	6.32	1.58	5.16	14.5	7.61	43.93
4.579	23.65	6.32	1.58	5.16	14.54	7.61	43.93
4.583	23.65	6.32	1.58	5.15	14.26	7.61	43.93
4.588	23.65	6.32	1.58	5.14	13.86	7.61	43.93
4.594	23.65	6.32	1.6	5.14	13.64	7.86	43.93
4.605	23.65	6.32	1.6	5.14	14.46	7.86	43.93
4.607	23.66	6.32	1.6	5.15	13.15	7.82	43.93
4.619	23.66	6.32	1.6	5.16	13.38	7.82	43.93
4.635	23.66	6.32	1.6	5.17	13.3	7.82	43.93
4.655	23.65	6.32	1.6	5.17	13.17	7.82	43.93
4.671	23.65	6.32	1.6	5.16	13.96	8.03	43.93
4.685	23.65	6.32	1.6	5.15	13.81	8.03	43.93

4.71	23.65	6.32	1.6	5.14	14.0	8.03	43.93
4.739	23.65	6.32	1.6	5.14	14.52	8.03	43.93
4.758	23.65	6.32	1.58	5.14	13.15	7.99	43.93
4.773	23.65	6.32	1.58	5.13	13.73	7.99	43.93
4.789	23.65	6.32	1.58	5.14	14.44	7.99	43.93
4.797	23.65	6.32	1.58	5.14	14.62	7.99	43.93
4.805	23.65	6.32	1.58	5.15	14.36	8.26	43.93
4.815	23.65	6.32	1.58	5.14	14.3	8.26	43.92
4.83	23.65	6.32	1.58	5.15	14.93	8.26	43.92
4.859	23.65	6.32	1.6	5.17	14.28	8.26	43.93
4.866	23.65	6.32	1.68	5.18	14.01	7.76	43.93
4.891	23.65	6.32	1.68	5.19	13.43	7.76	43.93
4.927	23.65	6.32	1.65	5.16	12.18	7.83	43.93
4.93	23.66	6.32	1.65	5.15	12.47	7.83	43.94
4.958	23.66	6.32	1.65	5.14	12.1	7.83	43.93
4.976	23.66	6.32	1.65	5.13	11.86	7.83	43.93
4.981	23.66	6.32	1.63	5.13	11.91	8.33	43.93



VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE

	Temp. ($^{\circ}\text{C}$)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/l)	PAR/Irradiancia (mols-1m^{-2})	Clorofila (mg/m^3)	Salinidad (PSU)
MÍNIMO	23.28	5.41	0.71	3.51	0.12	0.12	37.1
PROF (metros)	0.743	0.707	3.21	0.882	3.748	0.658	0.658
MÁXIMO	24.03	24.03	3.23	6.73	497.45	4.26	42.48
PROF (metros)	3.958	5.446	5.177	0.919	2.006	5.177	5.446

DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNAS DE AGUA

CTD E05 - Punto 004	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/L)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m3)	Salinidad (PSU)
0 - 1m	23.36	5.42	0.98	4.85	199.17	0.13	37.21
1 - 2m	23.51	5.44	0.92	6.06	233.98	0.13	37.18
2 - 3m	23.48	5.45	0.88	6.03	350.84	0.18	37.31
3 - 4m	23.63	5.65	1.04	5.56	193.9	0.66	38.7
4 - 5m	23.88	5.97	1.79	4.94	0.43	2.3	40.96
5 - 6m	23.75	6.1	2.59	4.47	1.57	3.82	42.09

OBSERVACIONES GENERALES

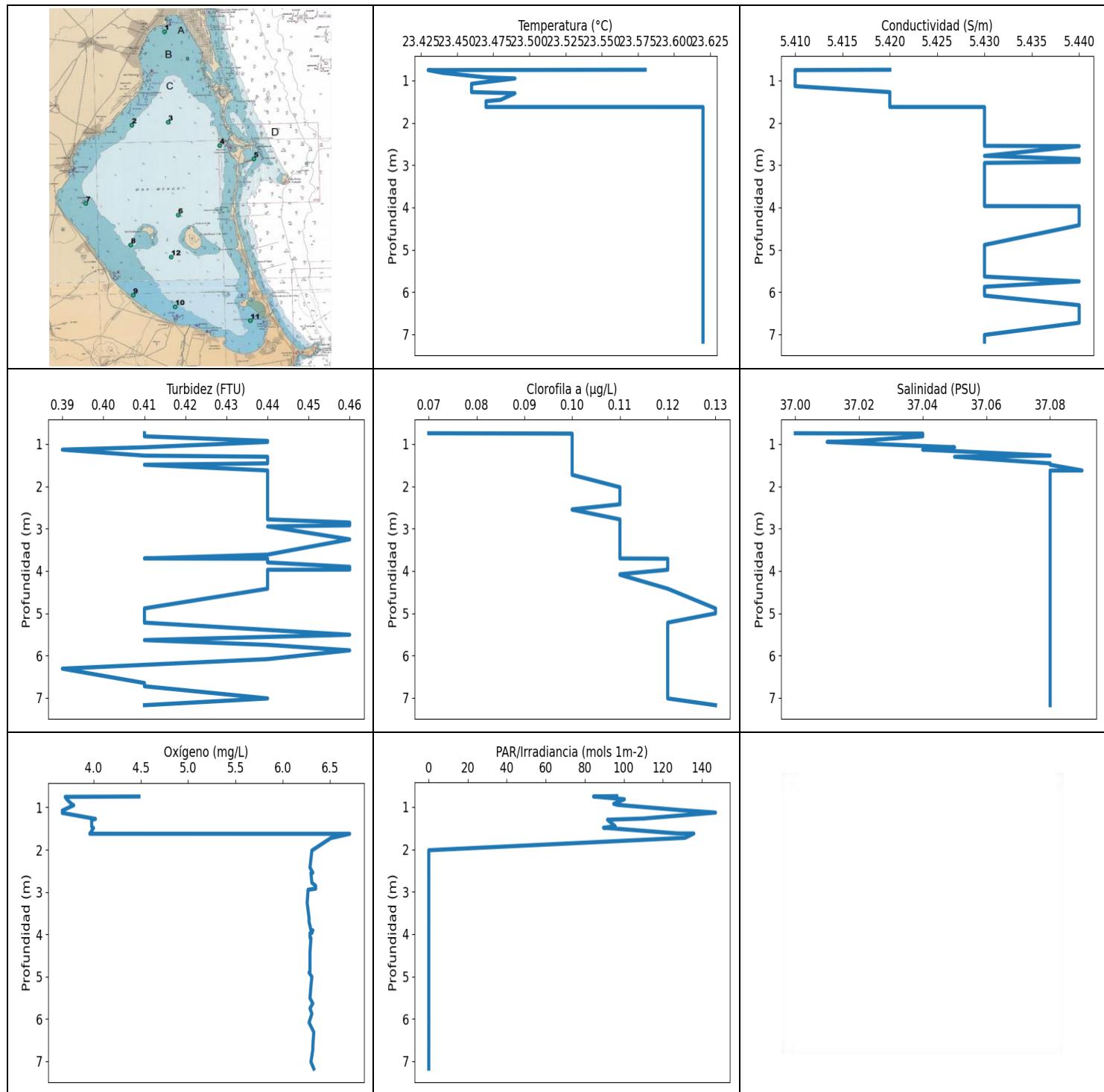
CLOROFILA elevada en la(s) columna(s) de agua 4 - 5m, 5 - 6m con los valores 2.3, 3.82 respectivamente

DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNAS DE AGUA

Profundidad (m)	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/L)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m3)	Salinidad (PSU)
0.533	23.31	5.44	1.82	6.12	161.42	0.15	37.36
0.551	23.32	5.43	1.0	6.11	123.02	0.13	37.31
0.603	23.33	5.42	1.0	6.11	111.38	0.13	37.19
0.658	23.47	5.42	0.88	4.74	314.32	0.12	37.1
0.707	23.35	5.41	0.92	3.8	205.82	0.13	37.1
0.743	23.28	5.41	0.9	3.58	289.67	0.12	37.17
0.752	23.28	5.41	0.9	3.55	281.24	0.12	37.17
0.772	23.28	5.42	0.9	3.54	209.14	0.13	37.24
0.785	23.29	5.42	0.92	3.59	167.21	0.12	37.24
0.828	23.28	5.42	0.92	3.53	186.96	0.12	37.25
0.882	23.28	5.42	1.0	3.51	181.6	0.15	37.25
0.891	23.45	5.43	0.88	4.55	202.21	0.15	37.22
0.919	23.5	5.43	0.88	6.73	188.77	0.13	37.18
0.952	23.5	5.43	0.88	6.69	177.24	0.13	37.18
0.993	23.5	5.43	0.95	6.55	187.5	0.12	37.18
1.005	23.51	5.44	0.92	6.06	144.46	0.13	37.18
1.038	23.51	5.44	0.95	6.06	156.69	0.13	37.17
1.103	23.51	5.44	0.92	6.06	183.76	0.13	37.18
1.16	23.51	5.44	0.92	6.05	167.58	0.13	37.18
1.176	23.51	5.44	0.9	6.02	178.41	0.13	37.18
1.217	23.51	5.44	0.9	6.04	197.05	0.13	37.18
1.264	23.51	5.44	0.92	6.08	178.13	0.12	37.18
1.276	23.51	5.44	0.92	6.07	190.56	0.12	37.18
1.291	23.51	5.44	0.92	6.07	176.04	0.12	37.18
1.314	23.51	5.44	0.92	6.07	146.47	0.12	37.18
1.344	23.51	5.44	0.95	6.06	145.73	0.13	37.18
1.373	23.51	5.44	0.92	6.06	172.95	0.13	37.18
1.383	23.51	5.44	0.92	6.06	171.06	0.13	37.18
1.424	23.51	5.44	0.92	6.07	181.4	0.13	37.18
1.458	23.51	5.44	0.92	6.08	172.57	0.13	37.18
1.465	23.51	5.44	0.92	6.03	178.64	0.15	37.18
1.537	23.51	5.44	0.92	6.03	176.16	0.15	37.18
1.54	23.51	5.44	0.92	6.06	184.28	0.13	37.18
1.551	23.51	5.44	0.88	6.05	191.94	0.13	37.18
1.623	23.51	5.44	0.88	6.04	180.13	0.13	37.18

1.652	23.51	5.44	0.92	6.04	203.9	0.13	37.18
1.683	23.51	5.44	0.9	6.05	375.06	0.13	37.18
1.688	23.51	5.44	0.9	6.04	385.46	0.15	37.18
1.795	23.51	5.44	1.0	6.07	358.91	0.13	37.19
1.808	23.51	5.44	1.0	6.07	270.19	0.13	37.19
1.832	23.51	5.44	1.0	6.07	327.31	0.13	37.2
1.854	23.51	5.44	0.9	6.04	426.4	0.13	37.19
1.857	23.51	5.44	0.92	6.05	473.43	0.13	37.19
1.89	23.51	5.44	0.92	6.04	352.53	0.13	37.18
1.944	23.51	5.44	0.92	6.08	372.2	0.15	37.19
2.006	23.51	5.44	0.92	6.06	497.45	0.15	37.18
2.064	23.51	5.44	0.9	6.05	399.29	0.13	37.19
2.085	23.51	5.44	0.9	6.07	317.43	0.13	37.19
2.162	23.51	5.44	0.95	6.04	263.94	0.15	37.21
2.194	23.51	5.44	0.95	6.04	350.91	0.15	37.21
2.225	23.51	5.44	0.92	6.05	329.18	0.15	37.22
2.256	23.51	5.44	0.92	6.06	328.1	0.15	37.21
2.288	23.51	5.44	0.92	6.08	337.5	0.15	37.23
2.334	23.5	5.44	0.92	6.01	416.25	0.17	37.25
2.397	23.5	5.45	0.9	6.04	363.1	0.17	37.28
2.402	23.5	5.45	0.9	6.03	330.26	0.17	37.27
2.447	23.5	5.45	0.9	6.03	280.13	0.17	37.27
2.508	23.5	5.45	0.9	6.02	270.96	0.17	37.27
2.553	23.5	5.45	0.9	6.04	241.7	0.17	37.28
2.564	23.49	5.45	0.9	6.04	318.48	0.17	37.31
2.572	23.49	5.45	0.9	6.05	346.56	0.17	37.33
2.581	23.48	5.45	0.9	6.05	333.17	0.18	37.31
2.588	23.48	5.45	0.9	6.04	300.26	0.18	37.31
2.597	23.48	5.45	0.88	6.02	362.7	0.2	37.32
2.638	23.48	5.45	0.88	6.0	350.91	0.2	37.31
2.675	23.47	5.46	0.83	5.99	431.94	0.18	37.36
2.677	23.47	5.45	0.83	6.0	328.46	0.18	37.35
2.705	23.47	5.45	0.83	6.0	365.49	0.18	37.34
2.75	23.48	5.45	0.83	6.02	402.36	0.18	37.34
2.793	23.47	5.46	0.88	6.01	359.86	0.2	37.37
2.8	23.47	5.46	0.88	6.01	430.15	0.2	37.37
2.805	23.47	5.46	0.85	6.03	370.24	0.22	37.37
2.81	23.47	5.46	0.85	6.03	373.58	0.22	37.37
2.843	23.47	5.46	0.85	6.04	394.86	0.22	37.37
2.898	23.47	5.46	0.88	6.04	369.52	0.22	37.38
2.911	23.46	5.46	0.88	6.04	347.09	0.22	37.42
2.927	23.45	5.46	0.83	6.02	315.77	0.23	37.42
2.98	23.45	5.46	0.83	6.01	344.67	0.23	37.42
2.984	23.44	5.47	0.75	5.99	356.25	0.23	37.47
3.008	23.44	5.46	0.85	6.0	340.69	0.22	37.45
3.067	23.44	5.46	0.85	6.01	342.26	0.22	37.45
3.074	23.43	5.47	0.78	6.03	325.74	0.27	37.49
3.108	23.43	5.47	0.78	6.03	305.97	0.27	37.48
3.144	23.43	5.47	0.8	6.01	314.11	0.24	37.48
3.161	23.43	5.47	0.8	5.99	364.85	0.24	37.49
3.21	23.4	5.49	0.7	5.9	367.02	0.27	37.66
3.247	23.4	5.49	0.7	5.9	300.86	0.27	37.65
3.295	23.4	5.49	0.7	5.91	316.25	0.27	37.67
3.379	23.41	5.5	0.73	5.95	345.12	0.33	37.77
3.436	23.43	5.52	0.75	5.89	279.15	0.32	37.86
3.459	23.42	5.51	0.75	5.89	275.33	0.35	37.83
3.54	23.42	5.59	0.75	5.86	240.28	0.35	38.47
3.564	23.73	5.7	0.88	5.42	254.35	0.57	39.06

3.565	23.69	5.68	0.88	5.34	251.47	0.57	38.94
3.592	23.65	5.68	0.88	5.27	224.76	0.57	38.92
3.633	23.63	5.68	0.88	5.23	199.09	0.57	39.0
3.685	23.61	5.69	0.85	5.22	190.94	0.59	39.08
3.735	23.61	5.71	0.85	5.24	189.73	0.59	39.24
3.748	23.73	5.77	1.22	5.41	0.12	1.04	39.61
3.763	23.75	5.75	1.22	5.42	0.12	1.04	39.42
3.783	23.96	5.84	1.41	5.23	0.12	1.27	39.9
3.817	23.97	5.84	1.68	5.08	0.12	1.29	39.89
3.839	23.94	5.84	1.68	5.08	0.12	1.29	39.9
3.889	23.92	5.84	1.68	5.07	0.12	1.29	39.93
3.953	23.91	5.87	1.43	5.08	0.12	1.31	40.18
3.958	24.03	5.91	1.8	5.09	0.12	1.45	40.37
3.991	24.03	5.91	1.8	5.07	0.12	1.45	40.35
4.058	24.02	5.9	1.8	5.06	0.12	1.45	40.31
4.156	24.02	5.91	1.8	5.06	0.13	1.45	40.43
4.268	24.02	5.95	1.8	5.05	0.12	1.45	40.7
4.29	23.9	5.95	1.87	5.06	0.12	1.73	40.8
4.333	23.94	5.95	1.87	5.07	0.13	1.73	40.76
4.384	23.97	5.95	1.87	5.1	0.12	1.73	40.73
4.464	23.98	5.95	1.87	5.11	0.12	1.73	40.72
4.52	23.86	5.96	1.58	5.08	0.12	2.32	40.93
4.527	23.84	5.95	1.58	5.07	0.13	2.32	40.9
4.576	23.83	5.95	1.58	5.04	0.12	2.32	40.9
4.639	23.83	5.95	1.58	5.02	0.12	2.32	40.92
4.696	23.83	5.96	1.65	4.99	0.12	2.27	40.95
4.75	23.83	5.96	1.65	5.01	0.12	2.27	40.99
4.768	23.81	5.99	1.46	4.96	0.12	2.9	41.22
4.814	23.79	6.03	1.63	4.64	0.12	2.81	41.51
4.828	23.76	6.05	2.19	4.54	2.2	3.55	41.71
4.85	23.77	6.02	2.19	4.53	1.96	3.55	41.5
4.92	23.78	6.0	2.19	4.52	1.69	3.55	41.3
5.016	23.8	6.02	1.77	4.52	1.8	3.26	41.48
5.029	23.75	6.08	1.97	4.6	1.0	3.39	41.96
5.046	23.75	6.07	1.97	4.57	1.22	3.39	41.86
5.088	23.76	6.07	1.97	4.53	0.95	3.39	41.87
5.156	23.76	6.07	1.97	4.49	0.81	3.39	41.86
5.177	23.74	6.1	3.23	4.51	2.52	4.26	42.11
5.212	23.74	6.09	3.23	4.51	2.04	4.26	42.04
5.253	23.75	6.09	3.23	4.52	1.78	4.26	42.02
5.294	23.75	6.09	2.53	4.51	1.52	3.77	42.05
5.317	23.75	6.1	2.53	4.49	1.38	3.77	42.15
5.325	23.75	6.12	2.53	4.47	1.48	3.77	42.25
5.345	23.75	6.11	2.53	4.42	1.63	3.77	42.23
5.365	23.74	6.13	3.01	4.37	1.69	4.1	42.34
5.393	23.74	6.13	3.01	4.36	1.93	4.1	42.34
5.431	23.74	6.13	3.01	4.34	1.89	4.1	42.41
5.446	23.74	6.14	3.01	4.34	1.39	4.1	42.48



VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE

	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/l)	PAR/Irradiancia (mols 1m^{-2})	Clorofila (mg/ m^3)	Salinidad (PSU)
MÍNIMO	23.43	5.41	0.39	3.67	0.12	0.07	37.0
PROF (metros)	0.752	0.752	1.132	1.076	2.02	0.744	0.744
MÁXIMO	23.62	23.62	0.46	6.71	146.98	0.13	37.09
PROF (metros)	1.625	2.551	2.855	1.625	1.132	4.886	1.624

DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNAS DE AGUA

CTD D - Punto 005	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/L)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m3)	Salinidad (PSU)
0 - 1m	23.48	5.41	0.42	3.89	94.61	0.09	37.02
1 - 2m	23.5	5.42	0.42	4.5	117.55	0.1	37.07
2 - 3m	23.62	5.43	0.44	6.31	0.12	0.11	37.08
3 - 4m	23.62	5.43	0.45	6.29	0.12	0.12	37.08
4 - 5m	23.62	5.44	0.43	6.29	0.12	0.12	37.08
5 - 6m	23.62	5.43	0.43	6.3	0.12	0.12	37.08
6 - 7m	23.62	5.43	0.41	6.31	0.13	0.12	37.08
7 - 8m	23.62	5.43	0.42	6.31	0.12	0.13	37.08

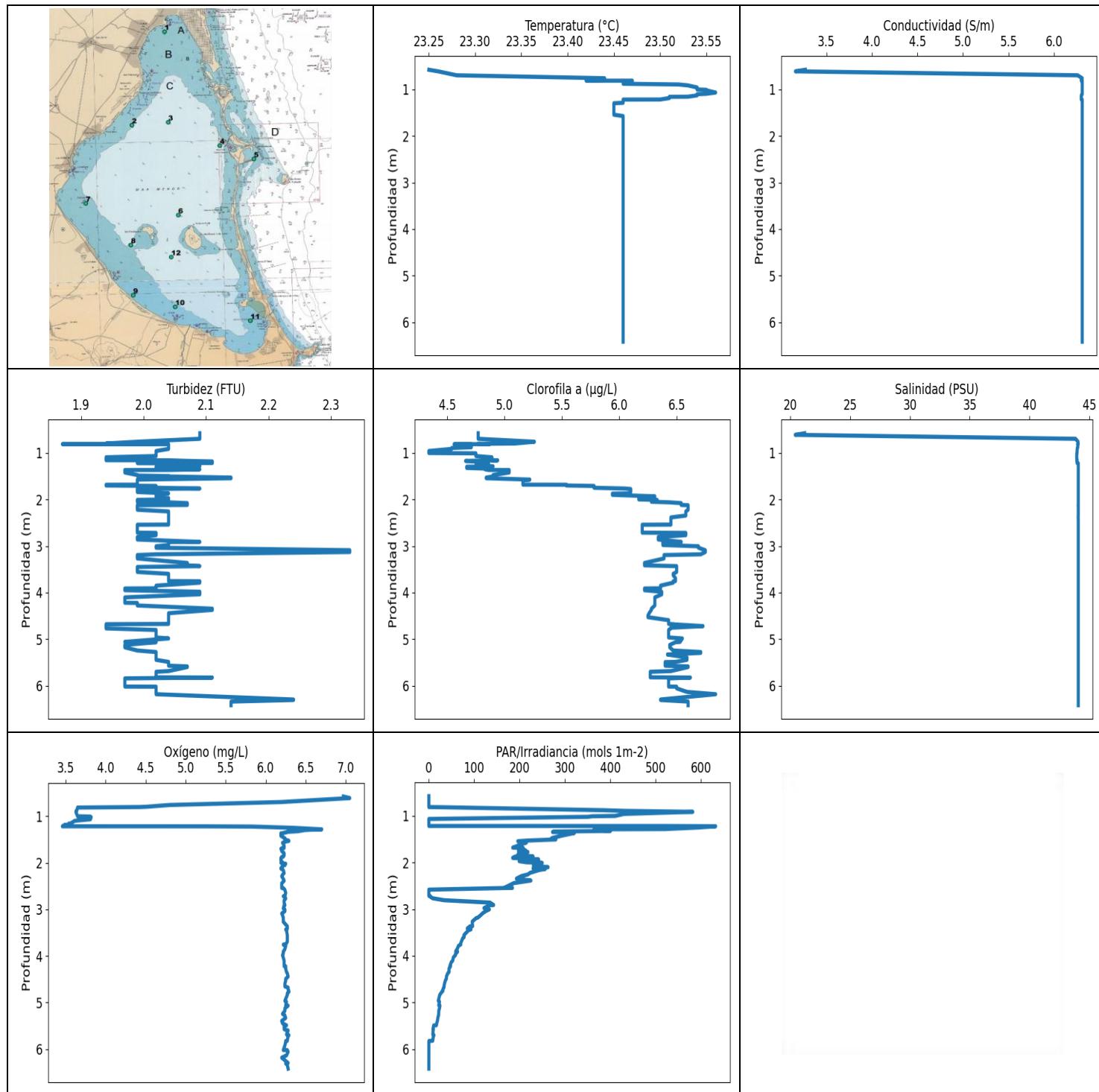
OBSERVACIONES GENERALES

HIPOXIA en la(s) columna(s) de agua 0 - 1m con los valores 3.89 respectivamente.

DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNAS DE AGUA

Profundidad (m)	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/L)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m3)	Salinidad (PSU)
0.744	23.58	5.42	0.41	4.48	96.4	0.07	37.0
0.752	23.43	5.41	0.41	3.7	84.53	0.1	37.04
0.817	23.44	5.41	0.41	3.72	100.31	0.1	37.04
0.925	23.47	5.41	0.44	3.77	94.87	0.1	37.02
0.95	23.49	5.41	0.44	3.79	96.92	0.1	37.01
1.076	23.46	5.41	0.41	3.67	129.57	0.1	37.05
1.132	23.46	5.41	0.39	3.67	146.98	0.1	37.04
1.273	23.46	5.42	0.41	4.02	109.78	0.1	37.08
1.3	23.49	5.42	0.44	3.98	91.68	0.1	37.05
1.456	23.48	5.42	0.44	3.98	95.6	0.1	37.08
1.489	23.47	5.42	0.41	4.0	89.62	0.1	37.08
1.624	23.47	5.42	0.44	3.96	127.43	0.1	37.09
1.625	23.62	5.43	0.44	6.71	135.87	0.1	37.08
1.727	23.62	5.43	0.44	6.51	131.43	0.1	37.08
2.02	23.62	5.43	0.44	6.31	0.12	0.11	37.08
2.424	23.62	5.43	0.44	6.29	0.12	0.11	37.08
2.544	23.62	5.43	0.44	6.32	0.12	0.1	37.08
2.551	23.62	5.44	0.44	6.3	0.12	0.1	37.08
2.781	23.62	5.43	0.44	6.31	0.13	0.11	37.08
2.855	23.62	5.44	0.46	6.35	0.12	0.11	37.08
2.921	23.62	5.44	0.46	6.35	0.12	0.11	37.08
2.947	23.62	5.43	0.44	6.27	0.12	0.11	37.08
3.253	23.62	5.43	0.46	6.26	0.12	0.11	37.08
3.614	23.62	5.43	0.44	6.28	0.12	0.11	37.08
3.705	23.62	5.43	0.41	6.28	0.14	0.11	37.08
3.71	23.62	5.43	0.44	6.28	0.12	0.12	37.08
3.799	23.62	5.43	0.44	6.29	0.12	0.12	37.08
3.903	23.62	5.43	0.46	6.3	0.12	0.12	37.08
3.906	23.62	5.43	0.46	6.32	0.12	0.12	37.08
3.968	23.62	5.43	0.46	6.31	0.13	0.12	37.08
3.972	23.62	5.44	0.44	6.29	0.12	0.12	37.08
4.078	23.62	5.44	0.44	6.29	0.12	0.11	37.08

4.09	23.62	5.44	0.44	6.3	0.12	0.11	37.08
4.42	23.62	5.44	0.44	6.29	0.12	0.12	37.08
4.886	23.62	5.43	0.41	6.29	0.12	0.13	37.08
4.906	23.62	5.43	0.41	6.28	0.12	0.13	37.08
5.003	23.62	5.43	0.41	6.31	0.12	0.13	37.08
5.222	23.62	5.43	0.41	6.3	0.12	0.12	37.08
5.509	23.62	5.43	0.46	6.29	0.12	0.12	37.08
5.635	23.62	5.43	0.41	6.32	0.12	0.12	37.08
5.748	23.62	5.44	0.44	6.29	0.12	0.12	37.08
5.877	23.62	5.43	0.46	6.31	0.12	0.12	37.08
6.085	23.62	5.43	0.44	6.28	0.13	0.12	37.08
6.311	23.62	5.44	0.39	6.33	0.12	0.12	37.08
6.651	23.62	5.44	0.41	6.32	0.13	0.12	37.08
6.727	23.62	5.44	0.41	6.32	0.12	0.12	37.08
7.015	23.62	5.43	0.44	6.3	0.12	0.12	37.08
7.175	23.62	5.43	0.41	6.33	0.12	0.13	37.08



VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE

	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/l)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m³)	Salinidad (PSU)
MÍNIMO	23.25	3.16	1.87	3.46	0.12	4.34	20.41
PROF (metros)	0.578	0.612	0.812	1.217	0.578	0.959	0.612
MÁXIMO	23.56	23.56	2.33	7.05	632.34	6.84	44.08
PROF (metros)	1.067	0.76	3.09	0.612	1.223	6.183	1.223

DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNAS DE AGUA

CTD E06 - Punto 006	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/L)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m3)	Salinidad (PSU)
0 - 1m	23.42	5.83	2.02	4.58	143.37	4.75	40.44
1 - 2m	23.47	6.31	2.02	5.61	228.28	5.25	44.05
2 - 3m	23.46	6.31	2.02	6.22	164.67	6.45	44.08
3 - 4m	23.46	6.31	2.07	6.24	87.32	6.47	44.08
4 - 5m	23.46	6.31	2.01	6.26	36.97	6.39	44.08
5 - 6m	23.46	6.31	2.02	6.25	14.03	6.48	44.08
6 - 7m	23.46	6.31	2.09	6.26	0.14	6.53	44.08

OBSERVACIONES GENERALES

CLOROFILA elevada en la(s) columna(s) de agua 0 - 1m, 1 - 2m, 2 - 3m, 3 - 4m, 4 - 5m, 5 - 6m, 6 - 7m con los valores 4.75, 5.25, 6.45, 6.47, 6.39, 6.48, 6.53 respectivamente

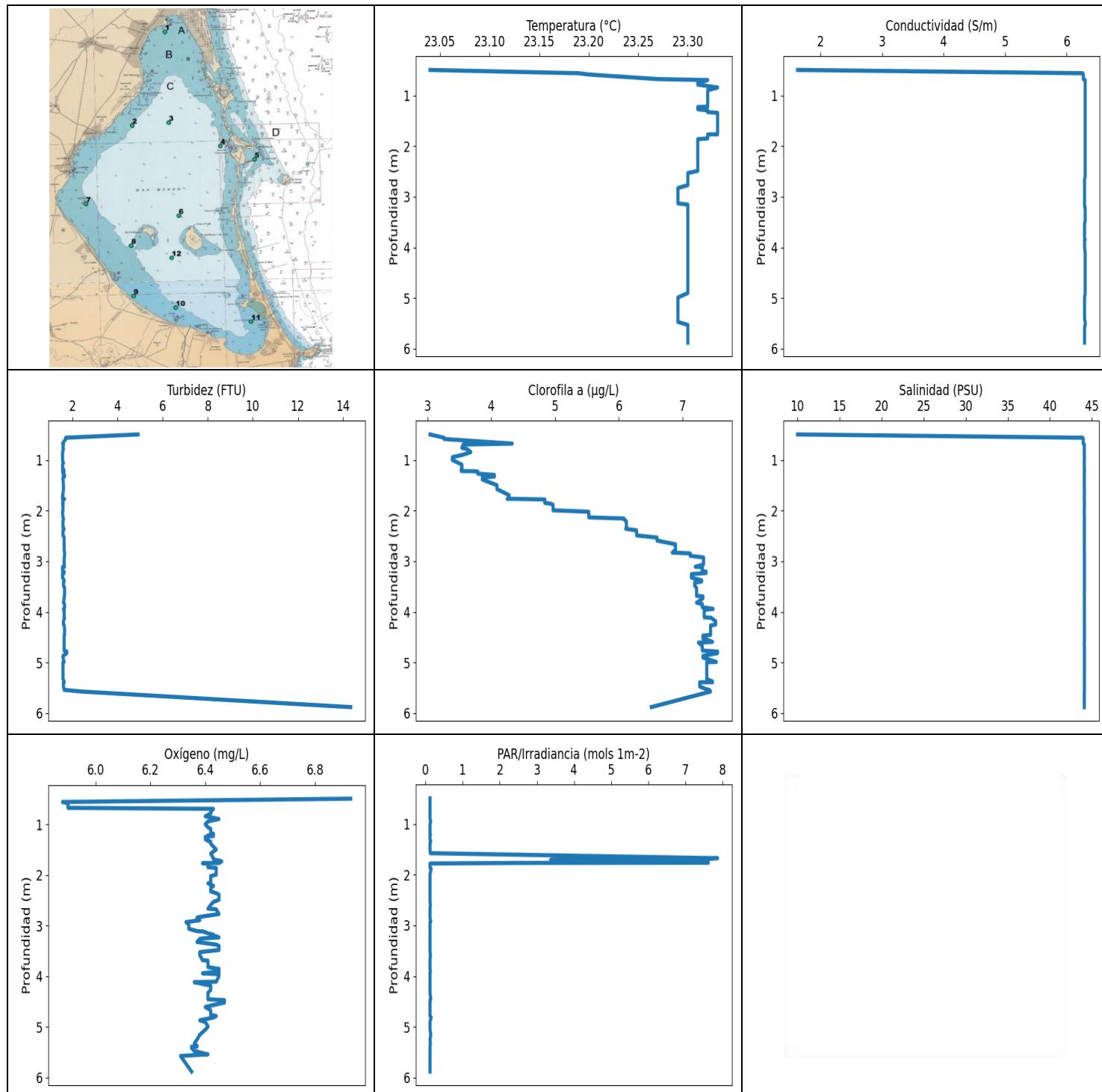
DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNAS DE AGUA

Profundidad (m)	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/L)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m3)	Salinidad (PSU)
0.578	23.25	3.27	2.09	6.97	0.12	4.77	21.2
0.612	23.26	3.16	2.09	7.05	0.12	4.77	20.41
0.697	23.28	6.26	2.09	6.19	0.12	4.77	43.85
0.76	23.44	6.31	1.99	4.8	0.12	5.26	44.06
0.798	23.44	6.3	1.94	4.51	0.12	5.09	44.06
0.804	23.42	6.3	2.02	4.42	0.12	4.77	44.04
0.812	23.42	6.3	1.87	3.77	0.13	4.87	44.06
0.813	23.47	6.31	2.04	3.67	8.11	4.56	44.03
0.815	23.47	6.31	2.04	3.65	26.5	4.71	44.04
0.879	23.46	6.31	2.04	3.64	383.7	4.71	44.04
0.894	23.52	6.31	2.04	3.63	432.51	4.54	44.0
0.914	23.53	6.31	2.04	3.63	581.99	4.54	43.99
0.959	23.54	6.31	2.02	3.64	430.15	4.34	43.98
1.002	23.54	6.31	2.02	3.65	410.91	4.34	43.97
1.009	23.55	6.31	2.02	3.81	359.54	4.75	43.96
1.021	23.55	6.31	2.02	3.82	351.68	4.75	43.96
1.067	23.56	6.31	2.02	3.81	0.13	4.75	43.95
1.094	23.55	6.31	1.94	3.64	0.13	4.89	43.95
1.103	23.54	6.31	1.94	3.61	0.12	4.89	43.95
1.128	23.54	6.3	1.94	3.59	0.12	4.89	43.96
1.157	23.53	6.3	1.94	3.56	0.12	4.89	43.96
1.159	23.51	6.3	2.04	3.54	0.12	4.94	43.97
1.172	23.51	6.3	2.07	3.54	0.12	4.66	43.97
1.184	23.51	6.3	2.11	3.53	0.12	4.75	43.97
1.186	23.51	6.3	2.11	3.49	0.14	4.75	43.97
1.217	23.5	6.3	2.11	3.46	0.17	4.75	43.98
1.218	23.46	6.31	1.99	5.22	521.65	4.78	44.07
1.223	23.46	6.31	2.09	5.83	632.34	4.86	44.08
1.25	23.46	6.31	2.09	6.34	594.22	4.86	44.08
1.283	23.46	6.31	2.09	6.7	520.85	4.86	44.08
1.288	23.46	6.31	2.04	6.59	383.44	4.9	44.08
1.297	23.45	6.31	2.02	6.49	363.82	4.67	44.08
1.323	23.45	6.31	2.02	6.4	400.43	4.67	44.08

1.336	23.45	6.31	2.02	6.27	281.18	4.83	44.08
1.346	23.45	6.31	2.02	6.26	272.81	4.83	44.08
1.352	23.45	6.31	2.09	6.24	289.61	4.83	44.08
1.367	23.45	6.31	2.04	6.21	291.9	4.86	44.08
1.368	23.45	6.31	1.97	6.19	320.79	5.04	44.08
1.421	23.45	6.31	1.97	6.19	294.86	5.04	44.08
1.476	23.45	6.31	1.99	6.24	271.68	4.9	44.08
1.487	23.45	6.31	1.99	6.24	271.08	4.9	44.08
1.499	23.45	6.31	2.04	6.24	268.43	4.9	44.08
1.506	23.45	6.31	2.04	6.25	280.01	4.9	44.08
1.53	23.45	6.31	2.14	6.29	217.12	4.84	44.08
1.544	23.45	6.31	2.14	6.25	196.23	4.84	44.08
1.573	23.46	6.31	1.99	6.21	215.22	5.22	44.08
1.591	23.46	6.31	1.99	6.22	209.05	5.16	44.08
1.638	23.46	6.31	1.99	6.23	196.88	5.16	44.08
1.682	23.46	6.31	1.99	6.23	184.97	5.16	44.08
1.684	23.46	6.31	1.94	6.21	207.63	5.54	44.08
1.689	23.46	6.31	1.94	6.2	204.07	5.54	44.08
1.7	23.46	6.31	1.94	6.19	208.77	5.54	44.08
1.71	23.46	6.31	2.02	6.2	196.96	5.78	44.08
1.721	23.46	6.31	2.02	6.2	202.03	5.78	44.08
1.734	23.46	6.31	2.02	6.2	210.1	5.78	44.08
1.741	23.46	6.31	2.02	6.2	213.63	5.78	44.08
1.749	23.46	6.31	2.02	6.2	211.35	5.78	44.08
1.765	23.46	6.31	2.09	6.21	197.74	6.05	44.08
1.776	23.46	6.31	1.99	6.22	218.45	6.1	44.08
1.796	23.46	6.31	1.99	6.23	200.75	6.1	44.08
1.84	23.46	6.31	1.99	6.23	195.55	6.1	44.08
1.869	23.46	6.31	2.04	6.22	229.78	6.08	44.08
1.874	23.46	6.31	2.02	6.2	189.93	5.94	44.08
1.901	23.46	6.31	2.02	6.19	184.81	5.94	44.08
1.933	23.46	6.31	2.02	6.19	241.97	6.31	44.08
1.94	23.46	6.31	2.02	6.19	206.37	6.31	44.08
1.971	23.46	6.31	2.04	6.2	199.18	6.17	44.08
1.996	23.46	6.31	2.04	6.21	216.12	6.17	44.08
1.999	23.46	6.31	2.04	6.19	246.24	6.17	44.08
2.009	23.46	6.31	1.99	6.2	250.1	6.33	44.08
2.021	23.46	6.31	1.99	6.25	241.86	6.28	44.08
2.049	23.46	6.31	1.99	6.24	240.28	6.28	44.08
2.062	23.46	6.31	2.04	6.21	230.49	6.44	44.08
2.079	23.46	6.31	2.07	6.21	239.02	6.54	44.08
2.1	23.46	6.31	2.07	6.2	262.9	6.54	44.08
2.112	23.46	6.31	2.07	6.2	251.36	6.54	44.08
2.118	23.46	6.31	2.07	6.19	234.97	6.54	44.08
2.124	23.46	6.31	1.99	6.19	229.83	6.6	44.08
2.136	23.46	6.31	1.99	6.2	239.75	6.6	44.08
2.139	23.46	6.31	1.99	6.21	256.59	6.6	44.07
2.161	23.46	6.31	1.99	6.22	243.4	6.6	44.08
2.221	23.46	6.31	1.99	6.23	223.39	6.6	44.08
2.257	23.46	6.31	2.04	6.21	218.21	6.58	44.08
2.29	23.46	6.31	2.04	6.2	204.25	6.58	44.08
2.346	23.46	6.31	2.04	6.22	193.16	6.58	44.08
2.386	23.46	6.31	2.04	6.23	225.15	6.45	44.07
2.441	23.46	6.31	2.04	6.2	187.54	6.45	44.08
2.54	23.46	6.31	2.04	6.2	167.07	6.45	44.08
2.543	23.46	6.31	1.99	6.22	184.44	6.2	44.08
2.582	23.46	6.31	1.99	6.24	0.14	6.2	44.08
2.647	23.46	6.31	1.99	6.25	0.14	6.2	44.08

2.713	23.46	6.31	1.99	6.24	0.13	6.2	44.08
2.718	23.46	6.31	2.02	6.22	3.17	6.58	44.08
2.724	23.46	6.31	2.02	6.23	1.84	6.58	44.08
2.766	23.46	6.31	2.02	6.25	8.24	6.58	44.08
2.808	23.46	6.31	1.99	6.23	33.32	6.34	44.08
2.86	23.46	6.31	1.99	6.23	135.1	6.34	44.08
2.911	23.46	6.31	2.09	6.24	142.92	6.54	44.08
2.914	23.46	6.31	2.04	6.23	134.48	6.38	44.08
2.978	23.46	6.31	2.04	6.22	121.63	6.38	44.08
3.005	23.46	6.31	2.02	6.24	133.49	6.69	44.08
3.037	23.46	6.31	2.02	6.24	126.46	6.69	44.08
3.09	23.46	6.31	2.33	6.2	118.32	6.75	44.08
3.099	23.46	6.31	2.33	6.21	117.67	6.75	44.08
3.129	23.46	6.31	2.33	6.21	114.37	6.75	44.08
3.178	23.46	6.31	2.02	6.22	108.56	6.71	44.08
3.194	23.46	6.31	1.99	6.22	104.21	6.39	44.08
3.267	23.46	6.31	1.99	6.22	95.72	6.39	44.08
3.364	23.46	6.31	2.07	6.27	96.63	6.22	44.08
3.368	23.46	6.31	2.07	6.27	90.62	6.22	44.08
3.415	23.46	6.31	2.07	6.27	84.85	6.22	44.08
3.432	23.46	6.31	2.09	6.25	93.14	6.5	44.08
3.45	23.46	6.31	1.99	6.26	87.79	6.5	44.08
3.557	23.46	6.31	1.99	6.27	77.41	6.5	44.08
3.597	23.46	6.31	2.04	6.27	77.94	6.47	44.08
3.626	23.46	6.31	2.04	6.27	74.66	6.47	44.08
3.692	23.46	6.31	2.04	6.27	71.9	6.49	44.08
3.753	23.46	6.31	2.04	6.25	69.6	6.49	44.08
3.757	23.46	6.31	2.09	6.22	70.52	6.47	44.08
3.787	23.46	6.31	2.09	6.25	65.44	6.47	44.08
3.851	23.46	6.31	2.02	6.24	62.74	6.36	44.08
3.908	23.46	6.31	2.02	6.22	59.23	6.36	44.08
3.912	23.46	6.31	1.97	6.22	63.39	6.22	44.08
3.949	23.46	6.31	1.97	6.22	59.3	6.22	44.08
3.982	23.46	6.31	2.09	6.21	58.93	6.37	44.08
4.037	23.46	6.31	2.09	6.22	53.98	6.37	44.08
4.103	23.46	6.31	1.97	6.23	52.74	6.31	44.08
4.138	23.46	6.31	1.97	6.23	49.53	6.31	44.08
4.218	23.46	6.31	1.97	6.23	46.48	6.31	44.08
4.223	23.46	6.31	1.99	6.25	47.97	6.31	44.08
4.277	23.46	6.31	1.99	6.25	44.47	6.31	44.08
4.346	23.46	6.31	2.11	6.26	44.68	6.28	44.08
4.372	23.46	6.31	2.11	6.27	41.92	6.28	44.08
4.443	23.46	6.31	2.04	6.28	38.93	6.26	44.08
4.492	23.46	6.31	2.04	6.25	38.7	6.25	44.08
4.528	23.46	6.31	2.04	6.25	36.58	6.25	44.08
4.593	23.46	6.31	2.04	6.24	34.71	6.43	44.08
4.654	23.46	6.31	2.04	6.24	33.59	6.43	44.08
4.673	23.46	6.31	2.04	6.27	33.64	6.43	44.08
4.679	23.46	6.31	1.94	6.28	33.14	6.47	44.08
4.682	23.46	6.31	1.94	6.28	33.03	6.47	44.08
4.72	23.46	6.31	1.94	6.28	31.07	6.73	44.08
4.755	23.46	6.31	1.94	6.29	30.98	6.45	44.08
4.769	23.46	6.31	1.94	6.29	28.94	6.45	44.08
4.803	23.46	6.31	2.02	6.27	26.65	6.43	44.08
4.836	23.46	6.31	2.02	6.27	24.21	6.43	44.08
4.964	23.46	6.31	2.02	6.24	20.88	6.43	44.08
4.985	23.46	6.31	2.04	6.26	23.58	6.55	44.08
5.059	23.46	6.31	1.97	6.25	21.84	6.53	44.08

5.066	23.46	6.31	2.02	6.28	24.5	6.49	44.08
5.124	23.46	6.31	1.97	6.24	23.57	6.44	44.08
5.176	23.46	6.31	1.97	6.24	22.02	6.44	44.08
5.244	23.46	6.31	1.99	6.21	21.66	6.47	44.08
5.277	23.46	6.31	2.02	6.24	21.59	6.71	44.08
5.295	23.46	6.31	2.02	6.24	20.85	6.71	44.08
5.33	23.46	6.31	2.02	6.25	20.06	6.42	44.08
5.394	23.46	6.31	2.02	6.2	18.99	6.59	44.08
5.445	23.46	6.31	2.02	6.21	17.5	6.59	44.08
5.489	23.46	6.31	2.04	6.26	16.69	6.49	44.08
5.493	23.46	6.31	2.04	6.23	10.74	6.4	44.08
5.57	23.46	6.31	2.04	6.23	9.31	6.4	44.08
5.586	23.46	6.31	2.07	6.25	9.97	6.6	44.08
5.599	23.46	6.31	2.07	6.28	9.51	6.6	44.08
5.686	23.46	6.31	2.04	6.26	8.87	6.45	44.08
5.701	23.46	6.31	2.02	6.29	11.36	6.27	44.08
5.715	23.46	6.31	2.02	6.28	10.28	6.27	44.08
5.82	23.46	6.31	2.02	6.27	8.65	6.27	44.08
5.825	23.46	6.31	2.11	6.25	0.35	6.62	44.08
5.843	23.46	6.31	1.97	6.25	0.16	6.43	44.08
5.918	23.46	6.31	1.97	6.24	0.22	6.43	44.08
6.019	23.46	6.31	1.97	6.22	0.17	6.43	44.08
6.021	23.46	6.31	2.02	6.27	0.15	6.5	44.08
6.057	23.46	6.31	2.02	6.28	0.15	6.5	44.08
6.133	23.46	6.31	2.02	6.26	0.17	6.59	44.08
6.183	23.46	6.31	2.02	6.2	0.15	6.84	44.08
6.297	23.46	6.31	2.24	6.28	0.13	6.36	44.08
6.307	23.46	6.31	2.24	6.25	0.12	6.36	44.08
6.341	23.46	6.31	2.14	6.27	0.12	6.6	44.08
6.419	23.46	6.31	2.14	6.28	0.12	6.6	44.08



VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE

	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/l)	PAR/Irradiancia (mols 1m^{-2})	Clorofila (mg/ m^3)	Salinidad (PSU)
MÍNIMO	23.04	1.63	1.56	5.88	0.12	3.04	9.98
PROF (metros)	0.496	0.496	0.677	0.561	0.496	0.496	0.496
MÁXIMO	23.33	23.33	14.34	6.93	7.87	7.55	44.12
PROF (metros)	0.844	0.696	5.881	0.496	1.676	4.784	0.696

DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA

CTD E12 - Punto 007	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/L)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m3)	Salinidad (PSU)
0 - 1m	23.26	5.82	1.93	6.32	0.12	3.52	40.66
1 - 2m	23.32	6.3	1.59	6.42	1.6	4.07	44.11
2 - 3m	23.3	6.3	1.61	6.41	0.12	6.49	44.12
3 - 4m	23.3	6.3	1.61	6.42	0.12	7.29	44.12
4 - 5m	23.3	6.3	1.63	6.42	0.13	7.4	44.12
5 - 6m	23.3	6.29	2.65	6.37	0.12	7.31	44.12

OBSERVACIONES GENERALES

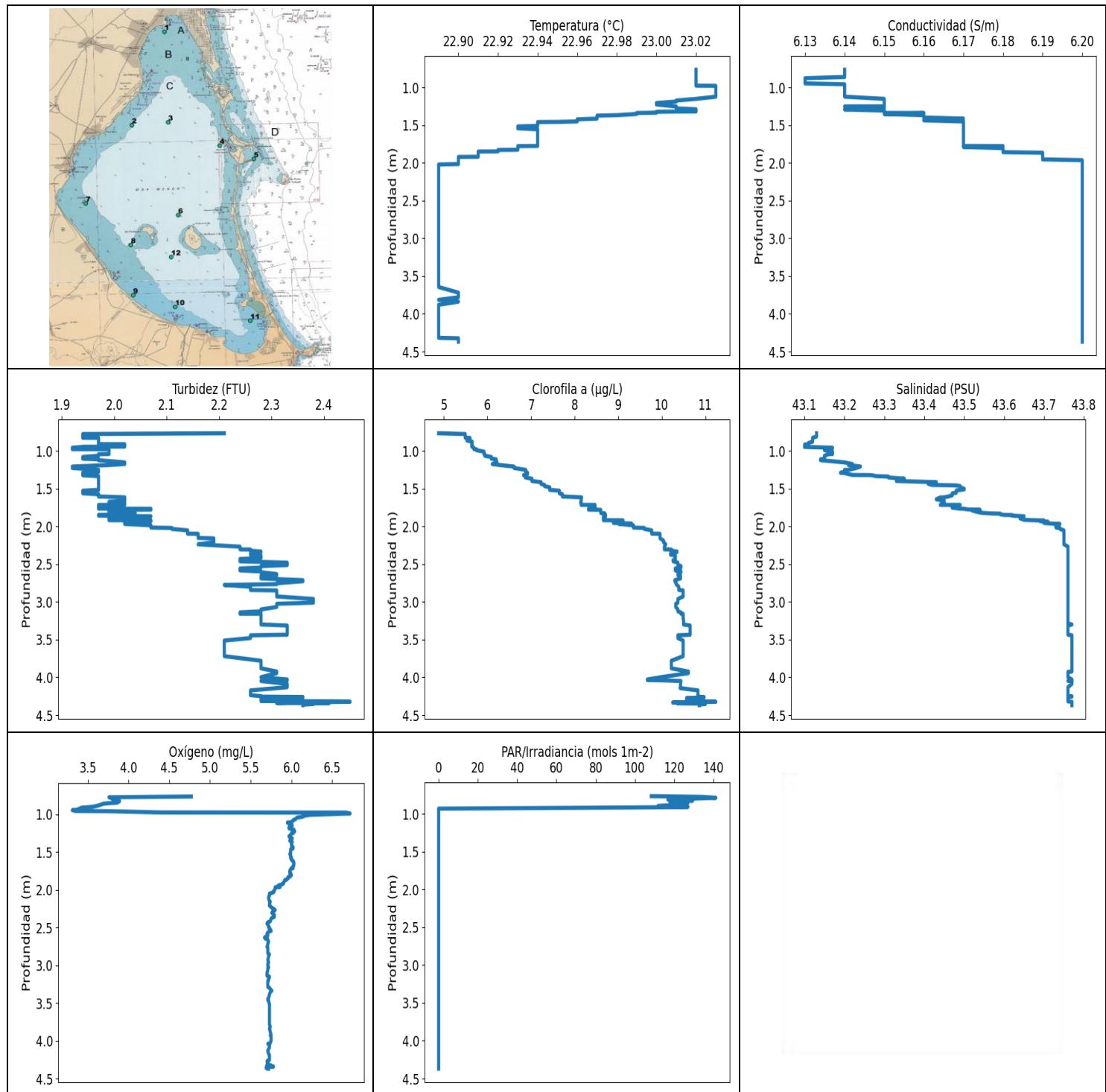
CLOROFILA elevada en la(s) columna(s) de agua 0 - 1m, 1 - 2m, 2 - 3m, 3 - 4m, 4 - 5m, 5 - 6m con los valores 3.52, 4.07, 6.49, 7.29, 7.4, 7.31 respectivamente

DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA

Profundidad (m)	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/L)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m3)	Salinidad (PSU)
0.496	23.04	1.63	4.91	6.93	0.12	3.04	9.98
0.561	23.19	6.26	1.7	5.88	0.12	3.26	43.93
0.586	23.2	6.27	1.7	5.9	0.12	3.26	43.99
0.677	23.27	6.27	1.56	5.9	0.12	4.33	43.97
0.696	23.32	6.3	1.6	6.43	0.12	3.56	44.12
0.76	23.31	6.3	1.58	6.42	0.12	3.54	44.11
0.785	23.31	6.3	1.6	6.42	0.12	3.62	44.11
0.844	23.33	6.3	1.56	6.4	0.12	3.68	44.11
0.896	23.32	6.3	1.56	6.45	0.12	3.56	44.11
0.946	23.32	6.3	1.56	6.41	0.14	3.39	44.12
1.0	23.32	6.3	1.56	6.4	0.12	3.39	44.11
1.062	23.32	6.3	1.6	6.41	0.12	3.49	44.11
1.093	23.32	6.3	1.56	6.42	0.12	3.54	44.11
1.164	23.32	6.3	1.56	6.42	0.12	3.54	44.11
1.175	23.32	6.3	1.6	6.42	0.12	3.53	44.12
1.19	23.32	6.3	1.6	6.43	0.12	3.53	44.12
1.219	23.32	6.3	1.6	6.43	0.13	3.53	44.11
1.22	23.32	6.3	1.56	6.41	0.12	3.6	44.12
1.222	23.32	6.3	1.63	6.41	0.12	3.73	44.11
1.229	23.31	6.3	1.58	6.43	0.12	3.79	44.11
1.25	23.31	6.3	1.58	6.4	0.12	3.79	44.11
1.271	23.31	6.3	1.58	6.41	0.12	3.79	44.11
1.296	23.32	6.3	1.65	6.4	0.12	4.05	44.12
1.328	23.32	6.3	1.65	6.41	0.13	4.05	44.11
1.344	23.33	6.3	1.58	6.42	0.14	3.86	44.11
1.386	23.33	6.3	1.58	6.42	0.12	3.86	44.11
1.499	23.33	6.3	1.6	6.44	0.12	4.09	44.11
1.577	23.33	6.3	1.6	6.42	0.13	4.09	44.12
1.676	23.33	6.3	1.58	6.43	7.87	4.25	44.12
1.694	23.33	6.3	1.56	6.43	7.59	4.28	44.12
1.708	23.33	6.3	1.56	6.44	3.37	4.28	44.11
1.717	23.33	6.3	1.56	6.45	7.23	4.28	44.11
1.732	23.33	6.3	1.56	6.46	5.55	4.28	44.11
1.765	23.33	6.3	1.56	6.45	7.62	4.28	44.11

1.767	23.33	6.3	1.58	6.4	4.85	4.25	44.11
1.769	23.32	6.3	1.65	6.39	2.55	4.4	44.11
1.78	23.32	6.3	1.58	6.41	0.12	4.84	44.12
1.848	23.32	6.3	1.58	6.41	0.12	4.84	44.12
1.863	23.31	6.3	1.56	6.44	0.12	4.93	44.11
1.884	23.31	6.3	1.58	6.44	0.15	4.97	44.12
1.994	23.31	6.3	1.58	6.44	0.12	4.97	44.11
2.022	23.31	6.3	1.56	6.42	0.12	5.53	44.11
2.052	23.31	6.3	1.56	6.42	0.12	5.53	44.11
2.134	23.31	6.3	1.58	6.42	0.12	5.53	44.12
2.156	23.31	6.3	1.6	6.42	0.12	6.08	44.12
2.166	23.31	6.3	1.6	6.41	0.12	6.08	44.12
2.217	23.31	6.3	1.58	6.43	0.12	6.12	44.12
2.257	23.31	6.3	1.58	6.42	0.12	6.12	44.11
2.326	23.31	6.3	1.58	6.42	0.12	6.12	44.12
2.36	23.31	6.3	1.63	6.44	0.12	6.11	44.12
2.39	23.31	6.3	1.58	6.45	0.12	6.28	44.12
2.49	23.31	6.3	1.58	6.45	0.12	6.28	44.11
2.532	23.3	6.3	1.63	6.43	0.12	6.6	44.12
2.592	23.3	6.3	1.63	6.42	0.13	6.6	44.12
2.665	23.3	6.29	1.63	6.41	0.12	6.89	44.11
2.679	23.3	6.29	1.63	6.44	0.12	6.89	44.12
2.771	23.3	6.29	1.63	6.45	0.12	6.89	44.11
2.829	23.29	6.29	1.65	6.38	0.12	6.84	44.12
2.844	23.29	6.29	1.65	6.37	0.12	7.12	44.12
2.893	23.29	6.29	1.65	6.38	0.13	7.12	44.12
2.925	23.29	6.29	1.63	6.34	0.14	7.33	44.11
2.93	23.29	6.29	1.63	6.33	0.12	7.33	44.12
2.983	23.29	6.29	1.63	6.34	0.12	7.33	44.12
3.063	23.29	6.29	1.63	6.34	0.12	7.33	44.12
3.11	23.29	6.29	1.65	6.37	0.12	7.2	44.12
3.115	23.29	6.29	1.56	6.39	0.12	7.31	44.12
3.131	23.29	6.29	1.56	6.4	0.12	7.31	44.12
3.155	23.3	6.29	1.56	6.41	0.12	7.31	44.12
3.18	23.3	6.29	1.56	6.43	0.12	7.31	44.12
3.196	23.3	6.29	1.56	6.43	0.12	7.31	44.12
3.206	23.3	6.3	1.63	6.43	0.12	7.37	44.12
3.212	23.3	6.3	1.63	6.44	0.12	7.37	44.12
3.215	23.3	6.3	1.63	6.44	0.12	7.37	44.12
3.233	23.3	6.3	1.63	6.45	0.12	7.37	44.12
3.254	23.3	6.3	1.56	6.39	0.12	7.14	44.12
3.263	23.3	6.3	1.56	6.38	0.12	7.14	44.12
3.324	23.3	6.3	1.56	6.37	0.12	7.14	44.12
3.376	23.3	6.3	1.63	6.44	0.12	7.3	44.12
3.4	23.3	6.3	1.63	6.45	0.12	7.3	44.12
3.424	23.3	6.3	1.6	6.45	0.12	7.19	44.12
3.482	23.3	6.3	1.6	6.45	0.12	7.19	44.12
3.524	23.3	6.29	1.65	6.38	0.12	7.22	44.12
3.582	23.3	6.29	1.65	6.38	0.13	7.22	44.12
3.682	23.3	6.29	1.65	6.39	0.12	7.22	44.11
3.694	23.3	6.29	1.63	6.41	0.12	7.32	44.12
3.733	23.3	6.29	1.63	6.41	0.12	7.32	44.12
3.82	23.3	6.29	1.6	6.41	0.12	7.22	44.12
3.846	23.3	6.3	1.65	6.44	0.12	7.31	44.12
3.853	23.3	6.29	1.65	6.45	0.12	7.31	44.11
3.908	23.3	6.29	1.65	6.45	0.13	7.31	44.12
3.924	23.3	6.29	1.63	6.42	0.12	7.39	44.12
3.941	23.3	6.29	1.6	6.39	0.12	7.48	44.12

3.96	23.3	6.29	1.63	6.45	0.12	7.34	44.12
3.997	23.3	6.29	1.63	6.45	0.12	7.34	44.12
4.107	23.3	6.3	1.63	6.44	0.12	7.34	44.12
4.116	23.3	6.3	1.65	6.36	0.12	7.45	44.12
4.187	23.3	6.3	1.6	6.42	0.12	7.52	44.12
4.25	23.3	6.3	1.6	6.42	0.12	7.52	44.12
4.269	23.3	6.3	1.63	6.42	0.12	7.44	44.12
4.326	23.3	6.3	1.65	6.41	0.12	7.44	44.12
4.455	23.3	6.3	1.65	6.41	0.14	7.44	44.12
4.47	23.3	6.3	1.63	6.47	0.12	7.32	44.12
4.519	23.3	6.3	1.63	6.47	0.12	7.32	44.12
4.592	23.3	6.3	1.63	6.41	0.12	7.47	44.12
4.607	23.3	6.3	1.63	6.4	0.12	7.25	44.11
4.671	23.3	6.3	1.63	6.42	0.12	7.31	44.12
4.691	23.3	6.3	1.63	6.42	0.12	7.31	44.12
4.763	23.3	6.3	1.63	6.42	0.12	7.31	44.12
4.784	23.3	6.3	1.75	6.44	0.12	7.55	44.12
4.814	23.3	6.3	1.75	6.43	0.15	7.55	44.12
4.869	23.3	6.3	1.58	6.38	0.13	7.32	44.12
4.902	23.3	6.3	1.58	6.4	0.12	7.32	44.12
4.989	23.29	6.29	1.63	6.41	0.12	7.53	44.12
4.994	23.29	6.29	1.58	6.41	0.12	7.38	44.12
5.055	23.29	6.29	1.58	6.4	0.12	7.38	44.12
5.155	23.29	6.29	1.58	6.38	0.14	7.38	44.12
5.25	23.29	6.29	1.58	6.37	0.12	7.38	44.12
5.325	23.29	6.29	1.58	6.36	0.13	7.38	44.12
5.375	23.29	6.29	1.63	6.37	0.12	7.47	44.12
5.389	23.29	6.29	1.63	6.37	0.12	7.47	44.12
5.39	23.29	6.29	1.6	6.35	0.12	7.27	44.12
5.415	23.29	6.29	1.6	6.35	0.12	7.27	44.12
5.473	23.29	6.3	1.6	6.36	0.12	7.27	44.12
5.531	23.3	6.3	1.63	6.4	0.12	7.38	44.12
5.54	23.3	6.3	1.63	6.41	0.12	7.42	44.12
5.573	23.3	6.29	2.41	6.31	0.12	7.44	44.11
5.881	23.3	6.29	14.34	6.35	0.12	6.51	44.11



VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE

	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/l)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m³)	Salinidad (PSU)
MÍNIMO	22.89	6.13	1.92	3.31	0.12	4.88	43.1
PROF (metros)	2.02	0.877	0.957	0.946	0.93	0.765	0.915
MÁXIMO	23.03	23.03	2.45	6.72	141.09	11.24	43.77
PROF (metros)	0.978	1.963	4.324	0.99	0.787	4.324	3.299

DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNAS DE AGUA

CTD E11 - Punto 008	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/L)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m3)	Salinidad (PSU)
0 - 1m	23.02	6.14	1.98	3.92	79.32	5.59	43.12
1 - 2m	22.96	6.17	1.99	5.98	0.12	7.7	43.44
2 - 3m	22.89	6.2	2.25	5.73	0.12	10.22	43.76
3 - 4m	22.89	6.2	2.28	5.72	0.12	10.45	43.76
4 - 5m	22.89	6.2	2.33	5.72	0.12	10.65	43.77

OBSERVACIONES GENERALES

HIPOXIA en la(s) columna(s) de agua 0 - 1m con los valores 3.92 respectivamente.

CLOROFILA elevada en la(s) columna(s) de agua 0 - 1m, 1 - 2m, 2 - 3m, 3 - 4m, 4 - 5m con los valores 5.59, 7.7, 10.22, 10.45, 10.65 respectivamente

DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNAS DE AGUA

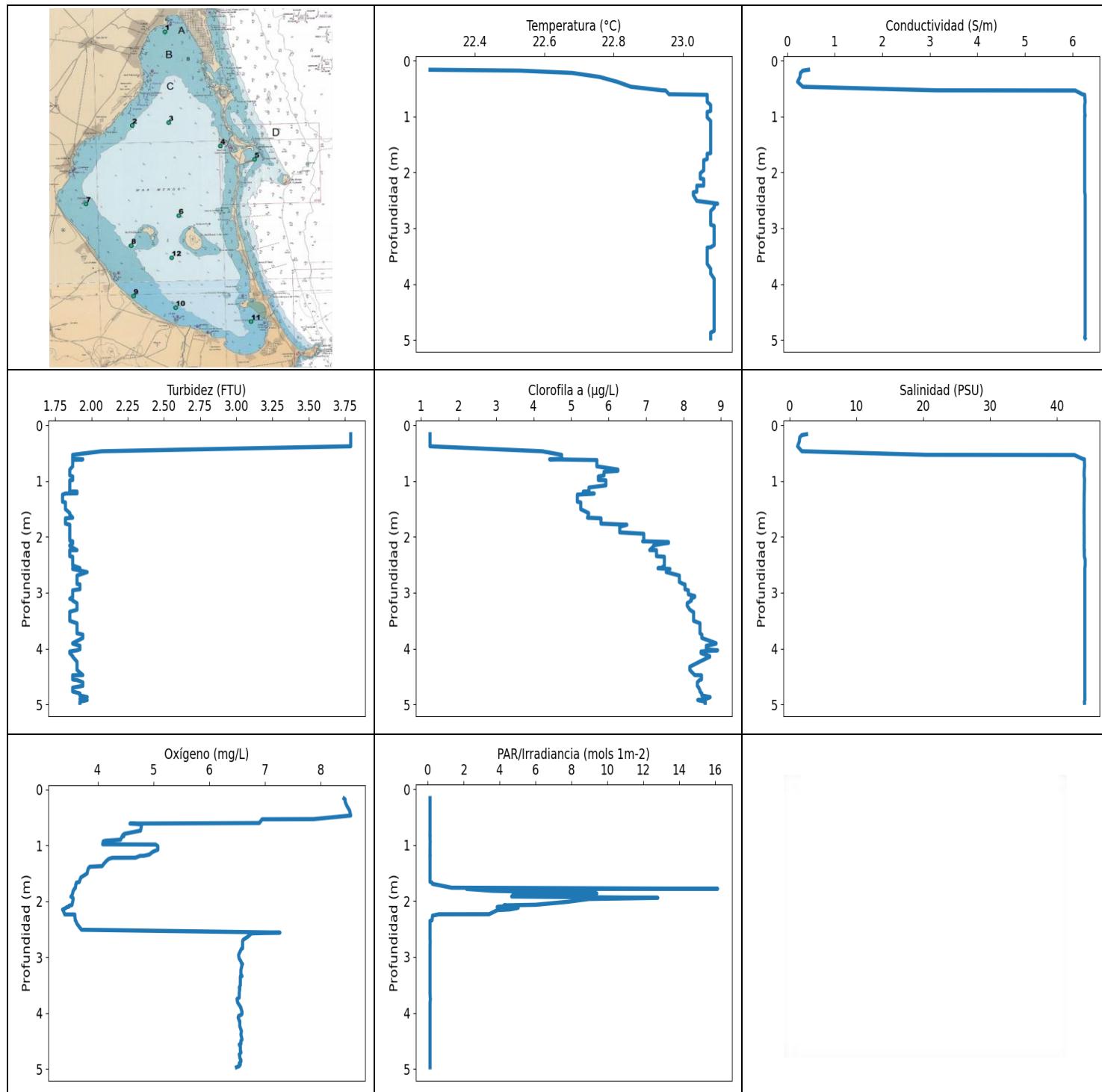
Profundidad (m)	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/L)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m3)	Salinidad (PSU)
0.765	23.02	6.14	2.21	4.77	108.26	4.88	43.13
0.775	23.02	6.14	1.94	3.76	134.84	5.49	43.13
0.787	23.02	6.14	1.94	3.79	141.09	5.49	43.13
0.809	23.02	6.14	1.94	3.82	116.72	5.49	43.13
0.825	23.02	6.14	1.94	3.85	129.29	5.49	43.12
0.826	23.02	6.14	1.97	3.89	123.07	5.6	43.12
0.833	23.02	6.14	1.97	3.88	121.95	5.6	43.12
0.847	23.02	6.14	1.97	3.86	122.51	5.6	43.12
0.855	23.02	6.14	1.97	3.74	126.9	5.53	43.12
0.861	23.02	6.14	1.97	3.69	117.7	5.53	43.12
0.877	23.02	6.13	1.97	3.65	125.22	5.65	43.12
0.893	23.02	6.13	1.97	3.6	111.87	5.65	43.11
0.901	23.02	6.13	1.97	3.56	111.6	5.65	43.11
0.906	23.02	6.13	1.97	3.51	126.93	5.65	43.11
0.909	23.02	6.13	1.97	3.48	124.24	5.65	43.11
0.91	23.02	6.13	2.02	3.45	121.87	5.64	43.11
0.915	23.02	6.13	2.02	3.42	97.14	5.64	43.1
0.93	23.02	6.13	2.02	3.39	0.12	5.64	43.1
0.942	23.02	6.13	2.02	3.36	0.12	5.64	43.1
0.944	23.02	6.13	1.94	3.34	0.12	5.66	43.1
0.946	23.02	6.13	1.94	3.31	0.12	5.66	43.1
0.957	23.02	6.14	1.92	3.35	0.14	5.69	43.17
0.96	23.02	6.14	1.92	3.77	0.12	5.69	43.17
0.976	23.02	6.14	1.92	4.39	0.15	5.69	43.16
0.978	23.03	6.14	1.99	6.67	0.12	5.75	43.16
0.99	23.03	6.14	1.99	6.72	0.12	5.75	43.15
1.008	23.03	6.14	1.99	6.23	0.12	5.92	43.17
1.016	23.03	6.14	1.99	6.17	0.12	5.92	43.17
1.034	23.03	6.14	1.99	6.13	0.12	5.92	43.17
1.04	23.03	6.14	1.99	6.1	0.12	5.92	43.17
1.043	23.03	6.14	1.97	6.07	0.12	5.94	43.16
1.064	23.03	6.14	1.97	6.05	0.12	5.94	43.15
1.079	23.03	6.14	1.94	6.02	0.13	6.09	43.15

1.102	23.03	6.14	1.94	6.01	0.12	6.09	43.15
1.11	23.03	6.14	1.97	5.95	0.12	6.2	43.14
1.122	23.03	6.14	1.97	5.97	0.12	6.2	43.14
1.151	23.02	6.15	2.02	6.01	0.12	6.22	43.2
1.173	23.01	6.15	2.02	5.97	0.12	6.11	43.22
1.186	23.01	6.15	1.99	5.97	0.12	6.28	43.21
1.206	23.0	6.15	1.92	6.03	0.12	6.61	43.24
1.225	23.0	6.15	1.92	6.04	0.12	6.61	43.23
1.25	23.01	6.15	1.97	6.02	0.12	6.88	43.21
1.251	23.01	6.14	1.97	6.0	0.12	6.88	43.2
1.277	23.01	6.15	1.97	5.99	0.12	6.88	43.2
1.289	23.02	6.14	1.94	5.97	0.12	6.92	43.19
1.292	23.02	6.14	1.94	5.97	0.12	6.92	43.2
1.306	23.02	6.15	1.94	5.98	0.12	6.92	43.21
1.318	23.02	6.15	1.94	5.99	0.12	6.83	43.22
1.319	23.01	6.15	1.94	6.01	0.12	6.83	43.26
1.322	23.0	6.15	1.94	6.01	0.12	6.83	43.27
1.334	23.0	6.15	1.97	6.0	0.12	6.87	43.28
1.337	22.99	6.15	1.97	6.0	0.12	6.87	43.3
1.338	22.99	6.16	1.97	5.99	0.12	6.87	43.31
1.351	22.99	6.15	1.97	5.98	0.12	6.87	43.31
1.367	22.98	6.16	1.97	6.01	0.12	7.02	43.35
1.373	22.97	6.16	1.97	6.0	0.12	7.02	43.34
1.398	22.97	6.16	1.97	6.0	0.12	7.02	43.33
1.413	22.97	6.17	1.97	6.0	0.12	7.23	43.43
1.422	22.96	6.16	1.97	6.01	0.15	7.23	43.42
1.436	22.96	6.16	1.97	6.02	0.12	7.23	43.41
1.45	22.96	6.17	1.97	6.02	0.12	7.31	43.42
1.456	22.95	6.17	1.97	6.01	0.12	7.31	43.48
1.458	22.94	6.17	1.97	6.01	0.12	7.31	43.48
1.465	22.94	6.17	1.97	5.99	0.12	7.31	43.49
1.482	22.94	6.17	1.97	5.99	0.12	7.43	43.49
1.5	22.94	6.17	1.97	5.99	0.12	7.43	43.5
1.509	22.94	6.17	1.97	5.99	0.12	7.43	43.5
1.516	22.93	6.17	1.97	5.99	0.12	7.43	43.49
1.526	22.93	6.17	1.94	5.98	0.12	7.65	43.48
1.541	22.93	6.17	1.94	5.99	0.12	7.65	43.48
1.554	22.94	6.17	1.94	5.99	0.12	7.65	43.48
1.561	22.94	6.17	1.94	5.99	0.12	7.65	43.47
1.573	22.94	6.17	1.97	6.0	0.12	7.72	43.47
1.579	22.94	6.17	1.97	5.99	0.12	7.72	43.47
1.588	22.94	6.17	1.97	6.0	0.12	7.72	43.47
1.603	22.94	6.17	1.97	6.0	0.12	7.72	43.46
1.614	22.94	6.17	2.02	6.01	0.12	8.16	43.45
1.616	22.94	6.17	2.02	6.02	0.12	8.16	43.44
1.64	22.94	6.17	2.02	6.03	0.12	8.15	43.43
1.662	22.94	6.17	2.02	6.03	0.12	8.15	43.45
1.673	22.94	6.17	1.99	6.03	0.12	8.14	43.45
1.683	22.94	6.17	1.99	6.02	0.12	8.14	43.45
1.688	22.94	6.17	2.02	6.02	0.12	8.15	43.45
1.714	22.94	6.17	2.02	6.02	0.14	8.15	43.44
1.715	22.94	6.17	1.97	6.0	0.12	8.47	43.49
1.727	22.94	6.17	1.97	5.99	0.12	8.47	43.47
1.751	22.94	6.17	1.97	5.98	0.12	8.47	43.47
1.764	22.94	6.17	1.97	5.98	0.12	8.47	43.49
1.766	22.94	6.17	2.07	5.98	0.12	8.32	43.5
1.775	22.94	6.17	2.07	5.98	0.12	8.32	43.51
1.777	22.93	6.18	2.07	5.98	0.12	8.32	43.53

1.78	22.93	6.18	1.99	5.99	0.12	8.6	43.54
1.788	22.93	6.17	1.99	5.99	0.12	8.6	43.52
1.804	22.93	6.18	1.99	6.0	0.12	8.6	43.53
1.816	22.93	6.18	1.99	5.99	0.12	8.6	43.54
1.822	22.93	6.18	1.99	5.98	0.13	8.6	43.55
1.825	22.93	6.18	2.04	5.98	0.14	8.69	43.56
1.828	22.92	6.18	2.04	5.97	0.13	8.69	43.57
1.83	22.92	6.18	2.04	5.96	0.12	8.69	43.59
1.838	22.92	6.18	2.04	5.96	0.13	8.69	43.59
1.847	22.92	6.18	1.97	5.96	0.12	8.71	43.6
1.849	22.91	6.18	1.97	5.95	0.12	8.71	43.62
1.857	22.91	6.18	1.97	5.95	0.12	8.71	43.62
1.865	22.91	6.19	2.07	5.94	0.12	8.71	43.65
1.871	22.91	6.19	1.99	5.92	0.12	8.66	43.64
1.893	22.91	6.19	1.99	5.91	0.12	8.66	43.64
1.912	22.91	6.19	1.99	5.9	0.12	8.66	43.65
1.917	22.91	6.19	1.99	5.89	0.12	8.66	43.67
1.918	22.91	6.19	2.07	5.89	0.12	9.11	43.68
1.919	22.9	6.19	2.07	5.9	0.12	9.11	43.69
1.92	22.9	6.19	2.07	5.89	0.12	9.11	43.7
1.921	22.9	6.19	2.07	5.89	0.12	9.11	43.7
1.93	22.9	6.19	2.07	5.88	0.12	9.11	43.69
1.936	22.9	6.19	2.02	5.87	0.12	8.89	43.7
1.937	22.9	6.19	2.02	5.85	0.12	8.89	43.71
1.953	22.9	6.19	2.02	5.83	0.14	8.89	43.7
1.963	22.9	6.2	2.02	5.86	0.12	9.31	43.72
1.967	22.9	6.2	2.02	5.8	0.12	9.02	43.74
1.985	22.9	6.2	2.07	5.8	0.12	9.35	43.73
2.015	22.9	6.2	2.07	5.79	0.13	9.35	43.73
2.02	22.89	6.2	2.11	5.78	0.12	9.6	43.74
2.033	22.89	6.2	2.11	5.78	0.12	9.6	43.74
2.052	22.89	6.2	2.14	5.73	0.12	9.77	43.75
2.063	22.89	6.2	2.14	5.73	0.12	9.77	43.75
2.078	22.89	6.2	2.14	5.73	0.13	9.77	43.75
2.096	22.89	6.2	2.14	5.72	0.12	9.77	43.75
2.097	22.89	6.2	2.16	5.72	0.12	9.96	43.75
2.116	22.89	6.2	2.16	5.72	0.12	9.96	43.75
2.152	22.89	6.2	2.16	5.73	0.12	9.96	43.75
2.158	22.89	6.2	2.19	5.74	0.12	9.96	43.75
2.185	22.89	6.2	2.19	5.73	0.12	10.04	43.75
2.209	22.89	6.2	2.19	5.73	0.12	10.04	43.75
2.237	22.89	6.2	2.16	5.76	0.12	10.09	43.75
2.268	22.89	6.2	2.24	5.8	0.12	10.06	43.76
2.273	22.89	6.2	2.24	5.79	0.12	10.06	43.76
2.285	22.89	6.2	2.24	5.77	0.13	10.06	43.76
2.304	22.89	6.2	2.24	5.76	0.12	10.06	43.76
2.306	22.89	6.2	2.26	5.76	0.12	10.22	43.76
2.322	22.89	6.2	2.26	5.78	0.12	10.22	43.76
2.333	22.89	6.2	2.28	5.79	0.12	10.35	43.76
2.338	22.89	6.2	2.28	5.79	0.12	10.35	43.76
2.359	22.89	6.2	2.26	5.79	0.12	10.2	43.76
2.373	22.89	6.2	2.26	5.76	0.12	10.2	43.76
2.384	22.89	6.2	2.28	5.75	0.12	10.31	43.76
2.418	22.89	6.2	2.28	5.74	0.12	10.31	43.76
2.431	22.89	6.2	2.24	5.71	0.12	10.31	43.76
2.439	22.89	6.2	2.24	5.71	0.14	10.31	43.76
2.446	22.89	6.2	2.24	5.7	0.12	10.26	43.76
2.462	22.89	6.2	2.24	5.71	0.12	10.26	43.76

2.48	22.89	6.2	2.33	5.72	0.12	10.37	43.76
2.497	22.89	6.2	2.33	5.72	0.12	10.37	43.76
2.503	22.89	6.2	2.33	5.73	0.12	10.37	43.76
2.512	22.89	6.2	2.33	5.73	0.13	10.37	43.76
2.525	22.89	6.2	2.28	5.74	0.12	10.44	43.76
2.545	22.89	6.2	2.28	5.75	0.12	10.44	43.76
2.557	22.89	6.2	2.24	5.72	0.12	10.31	43.76
2.565	22.89	6.2	2.24	5.71	0.13	10.31	43.76
2.583	22.89	6.2	2.24	5.7	0.12	10.31	43.76
2.596	22.89	6.2	2.28	5.71	0.12	10.44	43.76
2.607	22.89	6.2	2.28	5.71	0.12	10.44	43.76
2.631	22.89	6.2	2.31	5.67	0.12	10.37	43.76
2.634	22.89	6.2	2.31	5.67	0.12	10.37	43.76
2.646	22.89	6.2	2.31	5.68	0.12	10.37	43.76
2.654	22.89	6.2	2.28	5.7	0.12	10.43	43.76
2.657	22.89	6.2	2.28	5.71	0.12	10.43	43.76
2.668	22.89	6.2	2.28	5.71	0.12	10.43	43.76
2.689	22.89	6.2	2.28	5.72	0.12	10.43	43.76
2.712	22.89	6.2	2.36	5.71	0.12	10.3	43.76
2.719	22.89	6.2	2.36	5.71	0.12	10.3	43.76
2.726	22.89	6.2	2.36	5.71	0.12	10.3	43.76
2.753	22.89	6.2	2.31	5.7	0.13	10.33	43.76
2.765	22.89	6.2	2.31	5.71	0.12	10.33	43.76
2.775	22.89	6.2	2.21	5.71	0.12	10.35	43.76
2.799	22.89	6.2	2.26	5.71	0.14	10.39	43.76
2.817	22.89	6.2	2.26	5.71	0.12	10.39	43.76
2.842	22.89	6.2	2.26	5.71	0.12	10.39	43.76
2.848	22.89	6.2	2.31	5.72	0.12	10.49	43.76
2.855	22.89	6.2	2.31	5.73	0.12	10.49	43.76
2.881	22.89	6.2	2.31	5.72	0.12	10.49	43.76
2.928	22.89	6.2	2.31	5.71	0.12	10.49	43.76
2.961	22.89	6.2	2.38	5.72	0.12	10.37	43.76
2.979	22.89	6.2	2.38	5.71	0.12	10.37	43.76
3.01	22.89	6.2	2.38	5.71	0.12	10.37	43.76
3.025	22.89	6.2	2.31	5.72	0.12	10.32	43.76
3.043	22.89	6.2	2.31	5.71	0.12	10.32	43.76
3.067	22.89	6.2	2.31	5.71	0.12	10.32	43.76
3.1	22.89	6.2	2.28	5.7	0.12	10.37	43.76
3.113	22.89	6.2	2.28	5.7	0.12	10.37	43.76
3.125	22.89	6.2	2.28	5.7	0.12	10.37	43.76
3.138	22.89	6.2	2.24	5.7	0.12	10.44	43.76
3.139	22.89	6.2	2.24	5.71	0.12	10.44	43.76
3.151	22.89	6.2	2.24	5.73	0.12	10.44	43.76
3.157	22.89	6.2	2.24	5.73	0.12	10.44	43.76
3.158	22.89	6.2	2.28	5.73	0.12	10.49	43.76
3.177	22.89	6.2	2.28	5.72	0.12	10.49	43.76
3.195	22.89	6.2	2.28	5.72	0.12	10.49	43.76
3.207	22.89	6.2	2.28	5.71	0.12	10.49	43.76
3.218	22.89	6.2	2.28	5.71	0.12	10.49	43.76
3.24	22.89	6.2	2.28	5.71	0.12	10.5	43.76
3.267	22.89	6.2	2.28	5.71	0.14	10.5	43.76
3.287	22.89	6.2	2.28	5.71	0.12	10.5	43.76
3.299	22.89	6.2	2.28	5.73	0.12	10.5	43.77
3.313	22.89	6.2	2.33	5.74	0.12	10.65	43.76
3.33	22.89	6.2	2.33	5.75	0.12	10.65	43.76
3.336	22.89	6.2	2.33	5.76	0.12	10.65	43.76
3.341	22.89	6.2	2.33	5.75	0.12	10.65	43.76
3.355	22.89	6.2	2.33	5.74	0.12	10.65	43.76

3.387	22.89	6.2	2.33	5.73	0.12	10.65	43.76
3.435	22.89	6.2	2.33	5.72	0.12	10.65	43.76
3.443	22.89	6.2	2.26	5.71	0.12	10.37	43.77
3.449	22.89	6.2	2.26	5.71	0.12	10.37	43.77
3.46	22.89	6.2	2.26	5.71	0.12	10.37	43.77
3.467	22.89	6.2	2.26	5.72	0.15	10.37	43.77
3.479	22.89	6.2	2.26	5.72	0.12	10.37	43.77
3.512	22.89	6.2	2.21	5.73	0.12	10.49	43.77
3.567	22.89	6.2	2.21	5.73	0.12	10.49	43.77
3.644	22.89	6.2	2.21	5.73	0.13	10.49	43.77
3.719	22.9	6.2	2.21	5.73	0.12	10.49	43.77
3.78	22.9	6.2	2.28	5.73	0.12	10.22	43.77
3.814	22.89	6.2	2.28	5.74	0.12	10.22	43.77
3.838	22.9	6.2	2.28	5.73	0.13	10.22	43.77
3.88	22.89	6.2	2.28	5.74	0.12	10.22	43.77
3.923	22.89	6.2	2.31	5.75	0.12	10.61	43.77
3.928	22.89	6.2	2.31	5.74	0.12	10.61	43.76
3.944	22.89	6.2	2.31	5.75	0.12	10.61	43.76
3.998	22.89	6.2	2.28	5.75	0.12	9.98	43.76
4.028	22.89	6.2	2.33	5.74	0.12	9.67	43.77
4.036	22.89	6.2	2.33	5.73	0.12	9.67	43.77
4.04	22.89	6.2	2.33	5.71	0.12	10.05	43.77
4.047	22.89	6.2	2.28	5.73	0.12	10.44	43.76
4.048	22.89	6.2	2.28	5.73	0.12	10.44	43.77
4.087	22.89	6.2	2.33	5.73	0.12	10.43	43.77
4.13	22.89	6.2	2.33	5.71	0.12	10.43	43.76
4.142	22.89	6.2	2.31	5.71	0.12	10.42	43.76
4.173	22.89	6.2	2.26	5.72	0.12	10.83	43.76
4.187	22.89	6.2	2.26	5.73	0.14	10.83	43.76
4.213	22.89	6.2	2.26	5.73	0.12	10.83	43.76
4.236	22.89	6.2	2.26	5.73	0.12	10.83	43.76
4.249	22.89	6.2	2.28	5.73	0.12	10.82	43.76
4.251	22.89	6.2	2.28	5.73	0.12	10.82	43.77
4.256	22.89	6.2	2.28	5.72	0.12	10.82	43.77
4.261	22.89	6.2	2.36	5.71	0.12	10.97	43.76
4.263	22.89	6.2	2.36	5.72	0.12	10.97	43.76
4.265	22.89	6.2	2.36	5.72	0.12	10.97	43.76
4.268	22.89	6.2	2.36	5.71	0.15	10.97	43.76
4.273	22.89	6.2	2.28	5.7	0.12	10.57	43.76
4.287	22.89	6.2	2.28	5.71	0.12	10.57	43.76
4.304	22.89	6.2	2.28	5.71	0.12	10.57	43.76
4.314	22.89	6.2	2.28	5.7	0.12	10.57	43.76
4.318	22.89	6.2	2.43	5.7	0.12	10.89	43.76
4.324	22.9	6.2	2.45	5.75	0.12	11.24	43.77
4.333	22.9	6.2	2.33	5.75	0.12	10.25	43.77
4.34	22.9	6.2	2.31	5.76	0.12	10.81	43.77
4.341	22.9	6.2	2.41	5.78	0.12	10.55	43.77
4.344	22.9	6.2	2.38	5.72	0.12	10.35	43.77
4.348	22.9	6.2	2.38	5.69	0.12	11.0	43.77
4.353	22.9	6.2	2.38	5.69	0.12	11.0	43.77
4.361	22.9	6.2	2.36	5.69	0.12	10.86	43.77
4.367	22.9	6.2	2.36	5.7	0.12	10.86	43.77
4.369	22.9	6.2	2.36	5.72	0.12	10.86	43.77



VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE

	Temp. ($^{\circ}\text{C}$)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/l)	PAR/Irradiancia (mols 1m^{-2})	Clorofila (mg/ m^3)	Salinidad (PSU)
MÍNIMO	22.27	0.22	1.8	3.37	0.12	1.24	1.19
PROF (metros)	0.162	0.378	1.243	2.15	0.162	0.162	0.378
MÁXIMO	23.1	23.1	3.79	8.54	16.14	8.91	44.2
PROF (metros)	2.559	0.737	0.162	0.467	1.782	4.031	2.406

DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNAS DE AGUA

CTD E10 - Punto 009	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/L)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m3)	Salinidad (PSU)
0 - 1m	22.93	4.4	2.33	6.02	0.12	4.46	30.76
1 - 2m	23.07	6.26	1.84	4.07	2.22	5.74	44.05
2 - 3m	23.07	6.27	1.88	4.94	1.74	7.55	44.11
3 - 4m	23.08	6.27	1.89	6.56	0.12	8.38	44.15
4 - 5m	23.09	6.27	1.9	6.56	0.12	8.49	44.14

OBSERVACIONES GENERALES

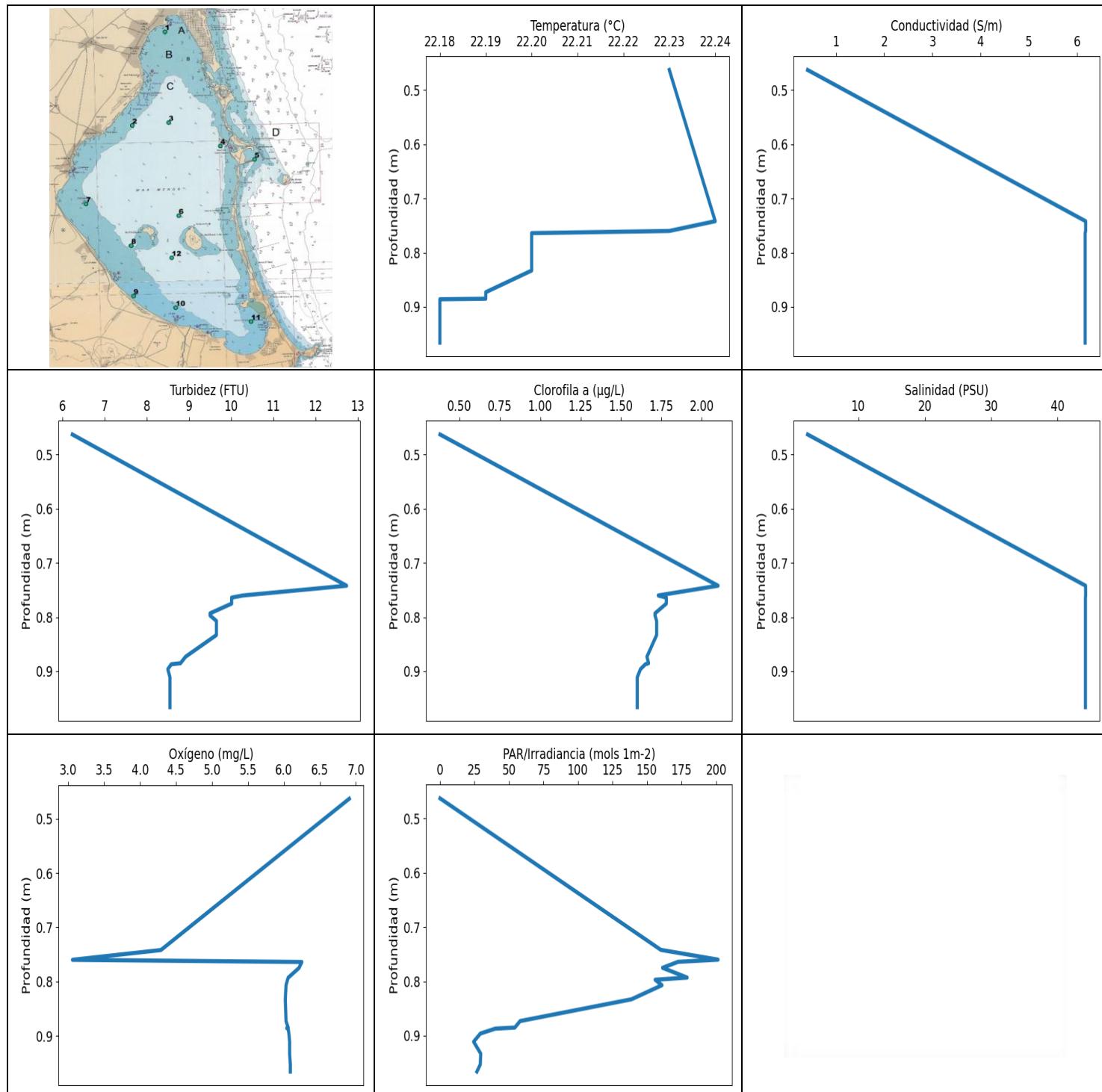
CLOROFILA elevada en la(s) columna(s) de agua 0 - 1m, 1 - 2m, 2 - 3m, 3 - 4m, 4 - 5m con los valores 4.46, 5.74, 7.55, 8.38, 8.49 respectivamente

DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNAS DE AGUA

Profundidad (m)	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/L)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m3)	Salinidad (PSU)
0.162	22.27	0.45	3.79	8.42	0.12	1.24	2.53
0.178	22.53	0.33	3.79	8.44	0.12	1.24	1.81
0.219	22.68	0.28	3.79	8.44	0.12	1.24	1.51
0.292	22.76	0.27	3.79	8.47	0.12	1.24	1.44
0.378	22.81	0.22	3.79	8.52	0.12	1.24	1.19
0.467	22.85	0.33	2.07	8.54	0.12	4.23	1.83
0.531	22.94	3.14	1.87	7.88	0.12	4.75	20.45
0.534	22.95	6.06	1.87	6.95	0.12	4.75	42.58
0.601	22.96	6.21	1.87	6.9	0.12	4.75	43.77
0.611	23.07	6.26	1.94	4.58	0.12	4.43	44.1
0.624	23.07	6.26	1.87	4.79	0.12	5.69	44.08
0.737	23.07	6.27	1.87	4.77	0.12	5.69	44.11
0.795	23.08	6.26	1.85	4.48	0.12	6.25	44.06
0.817	23.08	6.26	1.85	4.45	0.12	6.25	44.06
0.836	23.08	6.26	1.85	4.47	0.13	5.88	44.05
0.842	23.08	6.26	1.85	4.44	0.12	5.88	44.04
0.9	23.08	6.26	1.85	4.41	0.12	5.88	44.04
0.918	23.07	6.26	1.87	4.14	0.12	5.73	44.04
0.93	23.07	6.26	1.87	4.1	0.13	5.73	44.07
0.982	23.07	6.27	1.87	4.09	0.12	5.73	44.11
0.986	23.07	6.26	1.85	5.04	0.12	5.93	44.1
1.016	23.07	6.26	1.85	5.08	0.12	5.93	44.09
1.078	23.08	6.26	1.85	5.08	0.12	5.93	44.08
1.116	23.08	6.26	1.85	4.99	0.12	5.48	44.08
1.138	23.08	6.26	1.85	4.96	0.12	5.48	44.08
1.164	23.08	6.26	1.85	4.93	0.12	5.48	44.08
1.187	23.08	6.26	1.85	4.83	0.13	5.48	44.06
1.189	23.08	6.26	1.9	4.76	0.12	5.33	44.06
1.221	23.08	6.26	1.9	4.68	0.12	5.33	44.06
1.224	23.08	6.26	1.82	4.26	0.12	5.62	44.05
1.243	23.08	6.26	1.8	4.2	0.12	5.17	44.05
1.276	23.08	6.26	1.8	4.16	0.12	5.17	44.05
1.319	23.08	6.26	1.8	4.12	0.12	5.17	44.05
1.372	23.08	6.26	1.8	4.08	0.12	5.17	44.05
1.383	23.08	6.26	1.82	3.86	0.12	5.26	44.04

1.416	23.08	6.26	1.82	3.83	0.12	5.26	44.04
1.504	23.08	6.26	1.82	3.81	0.12	5.26	44.04
1.574	23.08	6.26	1.85	3.7	0.12	5.47	44.03
1.597	23.08	6.26	1.85	3.69	0.12	5.47	44.04
1.657	23.08	6.26	1.87	3.67	0.12	5.44	44.04
1.667	23.07	6.26	1.82	3.62	0.21	5.8	44.04
1.694	23.07	6.26	1.82	3.61	0.26	5.8	44.04
1.763	23.07	6.26	1.82	3.6	1.32	5.8	44.04
1.782	23.06	6.26	1.85	3.58	16.14	6.49	44.05
1.784	23.06	6.26	1.85	3.58	2.16	6.49	44.05
1.818	23.06	6.26	1.85	3.56	3.6	6.3	44.05
1.865	23.06	6.26	1.85	3.55	9.41	6.3	44.05
1.894	23.06	6.26	1.85	3.54	4.74	6.3	44.05
1.92	23.06	6.26	1.85	3.52	4.67	6.3	44.04
1.944	23.06	6.26	1.85	3.56	12.81	6.94	44.05
1.964	23.06	6.26	1.85	3.56	8.97	6.94	44.05
2.015	23.05	6.26	1.85	3.55	7.78	6.94	44.05
2.068	23.05	6.26	1.85	3.54	6.0	6.94	44.05
2.079	23.05	6.26	1.87	3.49	4.24	6.91	44.05
2.092	23.05	6.26	1.87	3.49	4.55	7.6	44.05
2.099	23.05	6.26	1.87	3.48	4.13	7.6	44.06
2.109	23.05	6.26	1.87	3.44	3.86	7.6	44.06
2.121	23.06	6.26	1.87	3.43	5.03	7.45	44.05
2.15	23.06	6.26	1.85	3.37	4.59	7.21	44.04
2.163	23.06	6.26	1.85	3.38	3.87	7.21	44.05
2.237	23.06	6.26	1.9	3.41	3.41	7.1	44.05
2.238	23.04	6.26	1.85	3.59	0.6	7.28	44.08
2.263	23.04	6.26	1.85	3.59	0.26	7.28	44.07
2.346	23.04	6.26	1.85	3.6	0.23	7.28	44.07
2.356	23.03	6.26	1.87	3.61	0.12	7.49	44.09
2.406	23.03	6.27	1.87	3.63	0.12	7.49	44.2
2.511	23.04	6.27	1.87	3.71	0.12	7.49	44.2
2.559	23.1	6.27	1.92	7.0	0.12	7.41	44.15
2.562	23.1	6.27	1.87	7.27	0.12	7.32	44.15
2.575	23.09	6.27	1.87	6.76	0.12	7.64	44.15
2.631	23.09	6.27	1.97	6.7	0.12	7.54	44.15
2.692	23.08	6.27	1.9	6.61	0.12	7.89	44.15
2.715	23.08	6.27	1.9	6.6	0.13	7.89	44.15
2.807	23.08	6.27	1.9	6.6	0.12	7.89	44.15
2.843	23.08	6.27	1.9	6.6	0.12	7.99	44.15
2.85	23.08	6.27	1.92	6.58	0.12	8.04	44.15
2.893	23.08	6.27	1.92	6.56	0.12	8.04	44.15
2.938	23.08	6.27	1.92	6.54	0.12	8.04	44.15
2.956	23.09	6.27	1.87	6.53	0.12	8.13	44.15
2.979	23.09	6.27	1.87	6.53	0.12	8.13	44.15
3.029	23.09	6.27	1.87	6.54	0.12	8.13	44.15
3.059	23.09	6.27	1.87	6.56	0.12	8.3	44.15
3.075	23.09	6.27	1.87	6.57	0.12	8.3	44.15
3.109	23.09	6.27	1.85	6.58	0.12	8.2	44.15
3.125	23.09	6.27	1.87	6.6	0.12	8.21	44.15
3.141	23.09	6.27	1.87	6.59	0.12	8.21	44.15
3.188	23.09	6.27	1.9	6.58	0.12	8.1	44.15
3.233	23.09	6.27	1.9	6.57	0.12	8.1	44.15
3.304	23.09	6.27	1.9	6.57	0.12	8.17	44.15
3.341	23.08	6.27	1.85	6.59	0.12	8.25	44.15
3.347	23.07	6.27	1.85	6.56	0.12	8.27	44.15
3.4	23.07	6.27	1.85	6.56	0.12	8.27	44.15
3.503	23.07	6.27	1.85	6.56	0.12	8.27	44.15

3.547	23.07	6.27	1.9	6.54	0.12	8.44	44.15
3.567	23.07	6.27	1.9	6.55	0.12	8.44	44.15
3.639	23.07	6.27	1.9	6.54	0.12	8.44	44.15
3.726	23.08	6.27	1.9	6.54	0.13	8.44	44.15
3.75	23.08	6.27	1.94	6.5	0.14	8.49	44.15
3.811	23.08	6.27	1.94	6.51	0.12	8.49	44.15
3.904	23.09	6.27	1.87	6.57	0.12	8.87	44.15
3.912	23.09	6.27	1.87	6.57	0.12	8.87	44.15
3.95	23.09	6.27	1.92	6.58	0.12	8.61	44.15
3.98	23.09	6.27	1.92	6.59	0.12	8.61	44.15
3.998	23.09	6.27	1.92	6.59	0.12	8.61	44.15
4.014	23.09	6.27	1.92	6.59	0.12	8.61	44.15
4.031	23.09	6.27	1.9	6.58	0.12	8.91	44.15
4.052	23.09	6.27	1.85	6.53	0.12	8.47	44.15
4.081	23.09	6.27	1.85	6.52	0.12	8.47	44.15
4.137	23.09	6.27	1.87	6.54	0.12	8.7	44.15
4.147	23.09	6.27	1.87	6.55	0.12	8.7	44.15
4.236	23.09	6.27	1.9	6.55	0.12	8.43	44.15
4.326	23.09	6.27	1.9	6.58	0.12	8.17	44.15
4.384	23.09	6.27	1.9	6.57	0.12	8.17	44.15
4.475	23.09	6.27	1.94	6.59	0.12	8.3	44.15
4.478	23.09	6.27	1.87	6.59	0.12	8.48	44.15
4.496	23.09	6.27	1.87	6.57	0.12	8.48	44.15
4.553	23.09	6.27	1.87	6.57	0.12	8.48	44.15
4.564	23.09	6.27	1.9	6.54	0.12	8.43	44.15
4.605	23.09	6.27	1.94	6.56	0.12	8.37	44.15
4.668	23.09	6.27	1.94	6.56	0.12	8.37	44.15
4.7	23.09	6.27	1.87	6.57	0.12	8.41	44.15
4.709	23.09	6.27	1.87	6.57	0.12	8.41	44.15
4.744	23.09	6.27	1.87	6.54	0.12	8.44	44.15
4.746	23.09	6.27	1.87	6.54	0.12	8.44	44.15
4.769	23.09	6.27	1.87	6.55	0.12	8.44	44.15
4.804	23.09	6.27	1.92	6.55	0.12	8.49	44.15
4.84	23.09	6.27	1.92	6.57	0.12	8.49	44.15
4.869	23.08	6.27	1.97	6.57	0.12	8.71	44.14
4.872	23.08	6.27	1.97	6.56	0.12	8.71	44.15
4.903	23.08	6.27	1.92	6.54	0.12	8.6	44.15
4.922	23.08	6.27	1.97	6.56	0.12	8.38	44.15
4.952	23.08	6.26	1.92	6.54	0.12	8.58	44.08
4.958	23.08	6.26	1.92	6.52	0.12	8.58	44.09
4.972	23.08	6.27	1.92	6.49	0.12	8.58	44.1



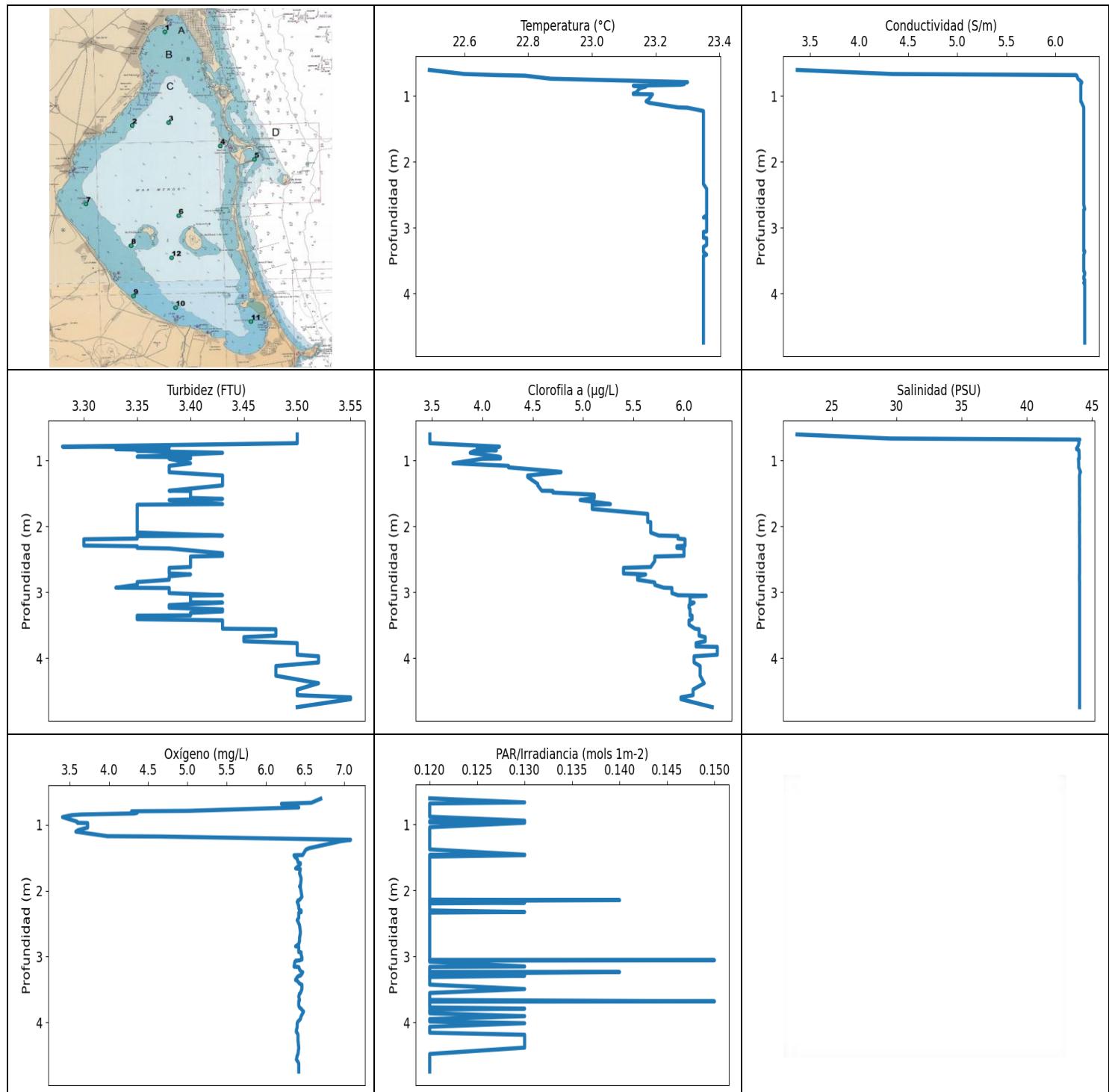
VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE

	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/l)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m³)	Salinidad (PSU)
MÍNIMO	22.18	0.41	6.25	3.06	0.12	0.38	2.33
PROF (metros)	0.886	0.463	0.463	0.76	0.463	0.463	0.463
MÁXIMO	22.24	0.742	12.73	6.91	201.41	2.1	44.25
PROF (metros)	0.742	0.742	0.742	0.463	0.76	0.742	0.76

DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNAS DE AGUA							
CTD E09 - Punto 010	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/L)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m3)	Salinidad (PSU)
0 - 1m	22.2	5.85	9.18	5.86	92.7	1.63	41.89

OBSERVACIONES GENERALES

DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNAS DE AGUA							
Profundidad (m)	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/L)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m3)	Salinidad (PSU)
0.463	22.23	0.41	6.24	6.91	0.12	0.38	2.33
0.742	22.24	6.18	12.73	4.29	160.01	2.1	44.24
0.76	22.23	6.18	10.28	3.06	201.41	1.73	44.25
0.764	22.2	6.17	10.01	6.25	172.42	1.78	44.22
0.775	22.2	6.17	10.01	6.21	161.25	1.78	44.22
0.793	22.2	6.17	9.5	6.06	179.03	1.71	44.22
0.797	22.2	6.17	9.5	6.05	155.87	1.71	44.22
0.807	22.2	6.17	9.65	6.03	160.82	1.72	44.22
0.833	22.2	6.17	9.65	6.02	138.67	1.72	44.22
0.873	22.19	6.17	8.92	6.03	58.14	1.66	44.22
0.885	22.19	6.17	8.8	6.06	54.27	1.67	44.22
0.886	22.18	6.17	8.68	6.04	46.97	1.66	44.22
0.887	22.18	6.17	8.58	6.06	40.08	1.65	44.22
0.896	22.18	6.17	8.5	6.07	29.38	1.62	44.22
0.911	22.18	6.17	8.55	6.08	24.45	1.6	44.22
0.933	22.18	6.17	8.55	6.08	29.6	1.6	44.22
0.953	22.18	6.17	8.55	6.09	29.28	1.6	44.22
0.966	22.18	6.17	8.55	6.09	26.84	1.6	44.22



VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE

	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/l)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m³)	Salinidad (PSU)
MÍNIMO	22.49	3.37	3.28	3.41	0.12	3.48	22.34
PROF (metros)	0.605	0.605	0.79	0.884	0.605	0.605	0.605
MÁXIMO	23.36	23.36	3.55	7.08	0.15	6.33	44.13
PROF (metros)	2.41	2.717	4.599	1.229	3.059	3.832	1.174

DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNAS DE AGUA

CTD E08 - Punto 011	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/L)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m3)	Salinidad (PSU)
0 - 1m	23.05	5.97	3.41	4.64	0.12	3.9	41.85
1 - 2m	23.33	6.29	3.39	5.97	0.12	4.9	44.05
2 - 3m	23.36	6.29	3.36	6.43	0.12	5.79	44.06
3 - 4m	23.35	6.29	3.44	6.43	0.13	6.13	44.06
4 - 5m	23.35	6.3	3.5	6.41	0.12	6.12	44.06

OBSERVACIONES GENERALES

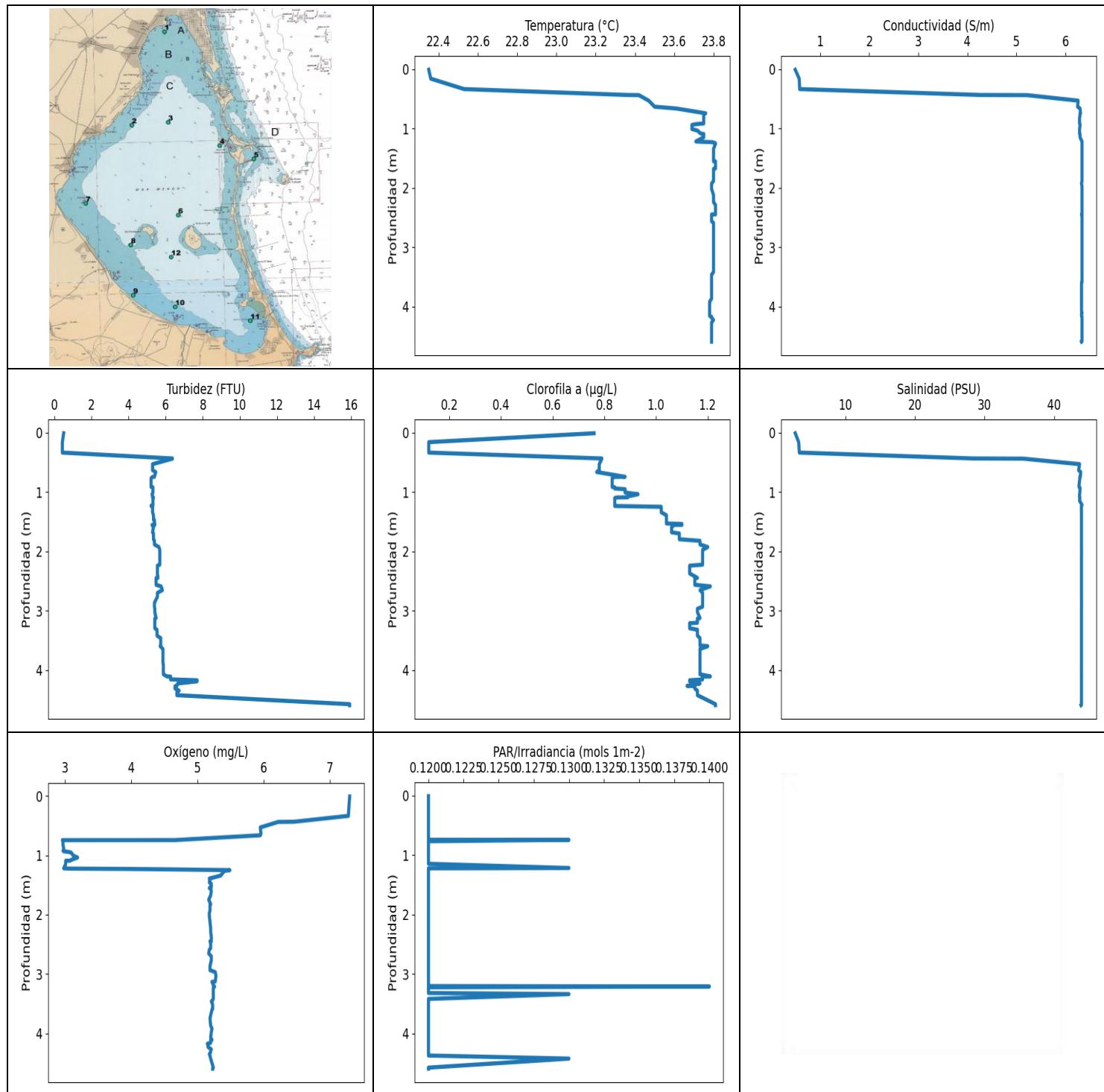
CLOROFILA elevada en la(s) columna(s) de agua 0 - 1m, 1 - 2m, 2 - 3m, 3 - 4m, 4 - 5m con los valores 3.9, 4.9, 5.79, 6.13, 6.12 respectivamente

DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNAS DE AGUA

Profundidad (m)	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/L)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m3)	Salinidad (PSU)
0.605	22.49	3.37	3.5	6.7	0.12	3.48	22.34
0.667	22.6	4.34	3.5	6.58	0.13	3.48	29.49
0.683	22.7	6.21	3.5	6.2	0.12	3.48	44.08
0.692	22.79	6.22	3.5	6.32	0.12	3.48	43.99
0.738	22.87	6.23	3.5	6.42	0.12	3.48	44.01
0.79	23.3	6.27	3.28	5.01	0.12	4.17	43.93
0.796	23.29	6.27	3.38	4.29	0.12	4.11	43.9
0.819	23.29	6.26	3.33	4.36	0.12	3.95	43.82
0.829	23.28	6.26	3.33	4.32	0.12	3.95	43.83
0.845	23.13	6.26	3.38	3.65	0.12	4.14	44.01
0.855	23.17	6.26	3.35	3.53	0.12	3.92	43.99
0.884	23.15	6.26	3.43	3.41	0.12	3.88	44.02
0.944	23.14	6.26	3.35	3.57	0.13	4.17	44.03
0.951	23.14	6.26	3.4	3.59	0.12	4.18	44.03
0.961	23.13	6.26	3.4	3.6	0.12	4.18	44.03
0.971	23.13	6.26	3.4	3.6	0.12	4.18	44.03
0.975	23.19	6.26	3.38	3.73	0.13	4.0	43.97
1.043	23.18	6.26	3.4	3.73	0.12	3.71	43.99
1.082	23.17	6.26	3.38	3.61	0.12	4.26	43.99
1.105	23.18	6.27	3.38	3.58	0.12	4.26	43.99
1.174	23.27	6.29	3.38	3.98	0.12	4.78	44.13
1.179	23.3	6.29	3.38	4.64	0.12	4.78	44.1
1.229	23.35	6.29	3.43	7.08	0.12	4.45	44.05
1.251	23.35	6.29	3.43	6.95	0.12	4.45	44.05
1.357	23.35	6.29	3.43	6.55	0.12	4.55	44.05
1.379	23.35	6.29	3.43	6.51	0.12	4.55	44.05
1.46	23.35	6.29	3.38	6.47	0.13	4.59	44.06
1.463	23.35	6.29	3.4	6.36	0.12	4.7	44.05
1.466	23.35	6.29	3.4	6.36	0.13	4.7	44.05
1.488	23.35	6.29	3.4	6.37	0.12	4.7	44.05
1.52	23.35	6.29	3.4	6.4	0.12	5.11	44.05
1.569	23.35	6.29	3.4	6.41	0.12	5.11	44.05
1.584	23.35	6.29	3.43	6.44	0.12	5.05	44.06
1.601	23.35	6.29	3.38	6.44	0.12	4.97	44.05
1.663	23.35	6.29	3.43	6.38	0.12	5.27	44.05

1.672	23.35	6.29	3.35	6.44	0.12	5.09	44.05
1.737	23.35	6.29	3.35	6.43	0.12	5.09	44.06
1.812	23.35	6.29	3.35	6.45	0.12	5.64	44.05
1.83	23.35	6.29	3.35	6.45	0.12	5.64	44.05
1.934	23.35	6.29	3.35	6.44	0.12	5.64	44.06
1.937	23.35	6.29	3.35	6.43	0.12	5.67	44.05
1.953	23.35	6.29	3.35	6.44	0.12	5.67	44.05
2.015	23.35	6.29	3.35	6.45	0.12	5.67	44.05
2.095	23.35	6.29	3.35	6.46	0.12	5.67	44.05
2.141	23.35	6.29	3.43	6.43	0.12	5.75	44.06
2.148	23.35	6.29	3.35	6.41	0.14	5.94	44.06
2.161	23.35	6.29	3.35	6.41	0.12	5.94	44.06
2.173	23.35	6.29	3.35	6.4	0.12	5.94	44.06
2.187	23.35	6.29	3.35	6.41	0.13	5.94	44.06
2.197	23.35	6.29	3.3	6.41	0.12	6.01	44.06
2.204	23.35	6.29	3.3	6.41	0.12	6.01	44.06
2.231	23.35	6.29	3.3	6.42	0.12	6.01	44.06
2.267	23.35	6.29	3.3	6.42	0.12	6.01	44.06
2.293	23.35	6.29	3.3	6.43	0.12	6.01	44.05
2.303	23.35	6.29	3.35	6.45	0.12	5.93	44.05
2.305	23.35	6.29	3.35	6.45	0.12	5.93	44.05
2.328	23.35	6.29	3.35	6.45	0.13	5.93	44.06
2.337	23.35	6.29	3.38	6.42	0.12	6.0	44.06
2.41	23.36	6.29	3.43	6.42	0.12	6.0	44.06
2.449	23.36	6.29	3.43	6.4	0.12	6.0	44.06
2.459	23.36	6.29	3.4	6.41	0.12	5.71	44.06
2.47	23.36	6.29	3.4	6.41	0.12	5.71	44.06
2.527	23.36	6.29	3.4	6.43	0.12	5.71	44.06
2.618	23.36	6.29	3.4	6.44	0.12	5.67	44.06
2.632	23.36	6.29	3.38	6.44	0.12	5.4	44.06
2.652	23.36	6.29	3.38	6.44	0.12	5.4	44.06
2.717	23.36	6.3	3.38	6.43	0.12	5.4	44.06
2.731	23.36	6.29	3.4	6.43	0.12	5.62	44.05
2.76	23.36	6.29	3.38	6.43	0.12	5.54	44.05
2.812	23.36	6.29	3.38	6.42	0.12	5.54	44.05
2.846	23.35	6.29	3.35	6.38	0.12	5.69	44.06
2.847	23.36	6.29	3.35	6.41	0.12	5.69	44.06
2.854	23.36	6.29	3.35	6.42	0.12	5.71	44.06
2.89	23.36	6.29	3.35	6.42	0.12	5.71	44.06
2.933	23.36	6.29	3.33	6.42	0.12	5.8	44.06
2.938	23.36	6.29	3.38	6.45	0.12	5.88	44.06
2.969	23.36	6.29	3.38	6.45	0.12	5.88	44.06
3.015	23.36	6.29	3.38	6.46	0.12	5.88	44.06
3.047	23.36	6.29	3.43	6.46	0.12	5.94	44.06
3.054	23.36	6.29	3.4	6.44	0.12	6.22	44.06
3.059	23.36	6.29	3.4	6.43	0.15	6.22	44.06
3.065	23.35	6.29	3.4	6.38	0.12	6.06	44.06
3.082	23.35	6.29	3.4	6.37	0.12	6.06	44.06
3.154	23.35	6.29	3.4	6.36	0.13	6.06	44.06
3.16	23.36	6.29	3.43	6.42	0.12	6.1	44.06
3.197	23.36	6.29	3.38	6.43	0.12	6.05	44.06
3.229	23.36	6.29	3.38	6.45	0.12	6.05	44.06
3.236	23.36	6.29	3.38	6.46	0.12	6.05	44.06
3.238	23.36	6.29	3.38	6.47	0.14	6.05	44.06
3.263	23.36	6.29	3.43	6.46	0.12	6.06	44.06
3.292	23.35	6.29	3.43	6.44	0.12	6.06	44.06
3.294	23.35	6.29	3.43	6.42	0.13	6.06	44.06
3.314	23.35	6.29	3.4	6.4	0.12	6.06	44.06

3.353	23.35	6.29	3.4	6.38	0.12	6.06	44.06
3.358	23.35	6.3	3.35	6.38	0.12	6.08	44.06
3.368	23.35	6.3	3.35	6.4	0.12	6.08	44.06
3.411	23.36	6.29	3.35	6.43	0.12	6.08	44.06
3.429	23.35	6.29	3.43	6.46	0.12	6.05	44.06
3.496	23.35	6.29	3.43	6.46	0.13	6.05	44.06
3.556	23.35	6.29	3.43	6.44	0.12	6.11	44.06
3.564	23.35	6.29	3.48	6.43	0.12	6.15	44.06
3.607	23.35	6.29	3.48	6.42	0.12	6.15	44.06
3.661	23.35	6.29	3.48	6.43	0.12	6.15	44.06
3.683	23.35	6.3	3.45	6.42	0.15	6.21	44.06
3.687	23.35	6.3	3.45	6.42	0.12	6.21	44.06
3.714	23.35	6.3	3.45	6.42	0.12	6.21	44.06
3.746	23.35	6.29	3.45	6.42	0.12	6.21	44.06
3.775	23.35	6.29	3.5	6.43	0.12	6.12	44.06
3.793	23.35	6.3	3.5	6.45	0.13	6.12	44.06
3.808	23.35	6.3	3.5	6.46	0.12	6.12	44.06
3.825	23.35	6.3	3.5	6.47	0.12	6.12	44.06
3.832	23.35	6.3	3.5	6.48	0.12	6.33	44.06
3.838	23.35	6.29	3.5	6.48	0.12	6.33	44.06
3.863	23.35	6.3	3.5	6.47	0.12	6.33	44.06
3.907	23.35	6.3	3.5	6.45	0.13	6.33	44.06
3.951	23.35	6.3	3.5	6.44	0.12	6.33	44.06
3.975	23.35	6.3	3.52	6.42	0.12	6.1	44.06
3.988	23.35	6.3	3.52	6.41	0.12	6.1	44.06
4.014	23.35	6.3	3.52	6.4	0.13	6.1	44.06
4.068	23.35	6.3	3.52	6.4	0.12	6.1	44.06
4.123	23.35	6.3	3.48	6.39	0.12	6.16	44.06
4.149	23.35	6.3	3.48	6.39	0.12	6.16	44.06
4.158	23.35	6.3	3.48	6.4	0.12	6.16	44.06
4.189	23.35	6.3	3.48	6.41	0.13	6.16	44.06
4.27	23.35	6.3	3.48	6.41	0.13	6.16	44.06
4.384	23.35	6.3	3.52	6.42	0.13	6.2	44.06
4.48	23.35	6.3	3.5	6.41	0.12	6.09	44.06
4.505	23.35	6.3	3.5	6.4	0.12	6.09	44.06
4.565	23.35	6.3	3.5	6.39	0.12	6.09	44.06
4.599	23.35	6.3	3.55	6.41	0.12	5.97	44.06
4.626	23.35	6.3	3.55	6.42	0.12	5.97	44.06
4.747	23.35	6.3	3.5	6.42	0.12	6.28	44.06



VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE

	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/l)	PAR/Irradiancia (mols- 1m^{-2})	Clorofila (mg/ m^3)	Salinidad (PSU)
MÍNIMO	22.35	0.49	0.44	2.96	0.12	0.12	2.75
PROF (metros)	0.01	0.01	0.16	0.745	0.01	0.16	0.01
MÁXIMO	23.81	23.81	15.92	7.3	0.14	1.23	44.02
PROF (metros)	1.25	1.219	4.577	0.01	3.212	4.577	1.219

DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNAS DE AGUA

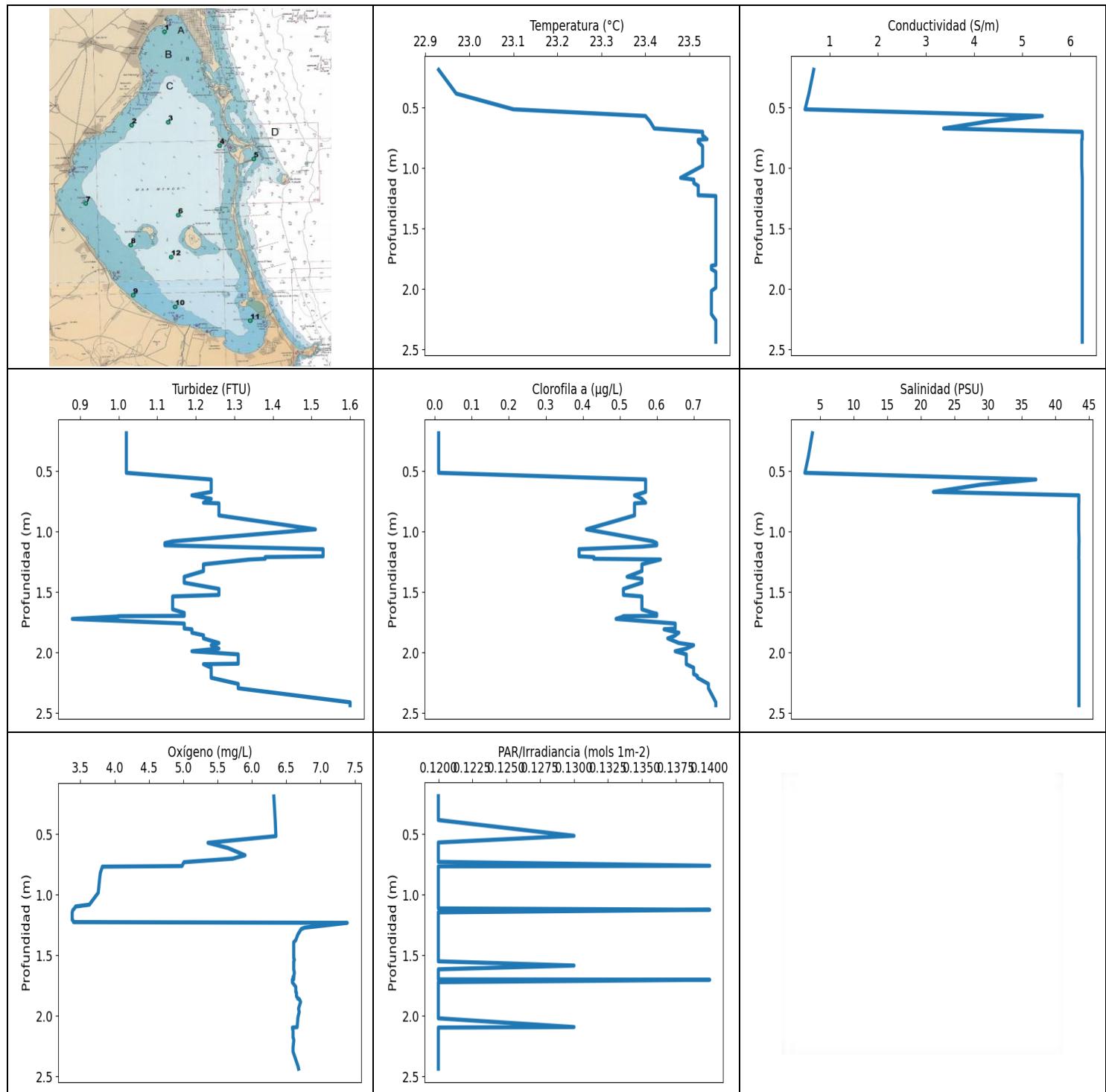
CTD E07 - Punto 012	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/L)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m3)	Salinidad (PSU)
0 - 1m	23.45	5.22	4.65	4.58	0.12	0.75	36.05
1 - 2m	23.79	6.33	5.35	4.67	0.12	1.02	43.9
2 - 3m	23.8	6.34	5.57	5.2	0.12	1.17	43.94
3 - 4m	23.79	6.34	5.61	5.23	0.12	1.16	43.94
4 - 5m	23.79	6.33	8.37	5.2	0.12	1.17	43.94

OBSERVACIONES GENERALES

DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNAS DE AGUA							
Profundidad (m)	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/L)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m3)	Salinidad (PSU)
0.01	22.35	0.49	0.51	7.3	0.12	0.76	2.75
0.16	22.36	0.57	0.44	7.29	0.12	0.12	3.24
0.336	22.53	0.58	0.44	7.28	0.12	0.12	3.33
0.435	23.36	4.26	6.37	6.46	0.12	0.79	28.4
0.438	23.42	5.22	6.37	6.22	0.12	0.79	35.56
0.531	23.47	6.26	5.3	5.95	0.12	0.78	43.67
0.633	23.5	6.25	5.3	5.96	0.12	0.78	43.53
0.663	23.61	6.3	5.47	5.95	0.12	0.77	43.83
0.744	23.76	6.31	5.4	4.66	0.12	0.88	43.78
0.745	23.75	6.3	5.3	2.96	0.13	0.84	43.7
0.768	23.75	6.3	5.22	2.97	0.12	0.83	43.71
0.824	23.75	6.29	5.22	2.97	0.12	0.83	43.65
0.884	23.75	6.29	5.22	2.98	0.12	0.83	43.6
0.915	23.75	6.29	5.22	2.98	0.12	0.83	43.59
0.921	23.73	6.29	5.32	2.97	0.12	0.84	43.64
0.927	23.71	6.3	5.32	2.98	0.12	0.84	43.71
0.933	23.7	6.3	5.32	2.98	0.12	0.84	43.75
0.941	23.69	6.3	5.32	3.04	0.12	0.84	43.75
0.953	23.69	6.3	5.32	3.09	0.12	0.88	43.73
1.009	23.69	6.29	5.32	3.13	0.12	0.88	43.71
1.038	23.72	6.29	5.27	3.19	0.12	0.93	43.67
1.074	23.73	6.29	5.3	3.1	0.12	0.89	43.66
1.09	23.74	6.29	5.3	3.08	0.12	0.89	43.67
1.092	23.75	6.3	5.35	3.01	0.12	0.85	43.71
1.101	23.75	6.3	5.32	3.01	0.12	0.84	43.71
1.148	23.75	6.3	5.32	3.01	0.12	0.84	43.67
1.219	23.71	6.34	5.32	2.98	0.13	0.84	44.02
1.224	23.74	6.34	5.32	3.07	0.12	0.84	44.01
1.23	23.79	6.34	5.22	3.96	0.12	0.84	43.96
1.236	23.8	6.34	5.22	4.49	0.12	0.84	43.95
1.25	23.81	6.34	5.3	5.49	0.12	1.02	43.93
1.26	23.81	6.34	5.3	5.41	0.12	1.02	43.93
1.342	23.8	6.34	5.3	5.35	0.12	1.02	43.94
1.392	23.8	6.34	5.35	5.18	0.12	1.04	43.94
1.421	23.8	6.34	5.35	5.19	0.12	1.04	43.94
1.454	23.8	6.34	5.35	5.18	0.12	1.04	43.94
1.469	23.8	6.34	5.35	5.19	0.12	1.04	43.94

1.472	23.8	6.34	5.4	5.2	0.12	1.04	43.94
1.482	23.8	6.34	5.4	5.21	0.12	1.04	43.94
1.502	23.8	6.34	5.4	5.21	0.12	1.04	43.94
1.52	23.8	6.34	5.4	5.21	0.12	1.04	43.94
1.531	23.8	6.34	5.4	5.21	0.12	1.04	43.94
1.539	23.8	6.34	5.42	5.19	0.12	1.1	43.94
1.554	23.8	6.34	5.42	5.18	0.12	1.1	43.94
1.555	23.81	6.34	5.27	5.2	0.12	1.07	43.94
1.596	23.81	6.34	5.35	5.21	0.12	1.06	43.94
1.674	23.81	6.34	5.3	5.2	0.12	1.06	43.94
1.68	23.8	6.34	5.3	5.2	0.12	1.06	43.94
1.7	23.8	6.34	5.35	5.19	0.12	1.09	43.94
1.725	23.8	6.34	5.35	5.18	0.12	1.09	43.94
1.75	23.8	6.34	5.35	5.17	0.12	1.09	43.94
1.771	23.8	6.34	5.35	5.18	0.12	1.09	43.94
1.797	23.8	6.34	5.35	5.19	0.12	1.09	43.94
1.823	23.8	6.34	5.4	5.2	0.12	1.17	43.94
1.835	23.8	6.34	5.4	5.19	0.12	1.17	43.94
1.885	23.8	6.34	5.4	5.19	0.12	1.17	43.94
1.928	23.79	6.33	5.64	5.19	0.12	1.2	43.94
1.976	23.79	6.34	5.69	5.18	0.12	1.18	43.94
2.019	23.79	6.34	5.69	5.18	0.12	1.18	43.95
2.123	23.8	6.34	5.69	5.19	0.12	1.18	43.94
2.225	23.8	6.34	5.69	5.2	0.12	1.18	43.94
2.242	23.8	6.34	5.56	5.2	0.12	1.13	43.94
2.29	23.81	6.34	5.56	5.2	0.12	1.13	43.94
2.373	23.81	6.34	5.56	5.21	0.12	1.13	43.94
2.448	23.81	6.34	5.59	5.21	0.12	1.16	43.94
2.449	23.79	6.33	5.49	5.19	0.12	1.15	43.94
2.485	23.79	6.34	5.49	5.2	0.12	1.15	43.94
2.564	23.79	6.34	5.49	5.2	0.12	1.15	43.94
2.591	23.8	6.34	5.76	5.18	0.12	1.21	43.94
2.653	23.8	6.34	5.83	5.17	0.12	1.17	43.94
2.701	23.8	6.34	5.56	5.21	0.12	1.18	43.94
2.765	23.8	6.34	5.56	5.21	0.12	1.18	43.94
2.869	23.8	6.34	5.4	5.19	0.12	1.18	43.95
2.934	23.8	6.34	5.4	5.19	0.12	1.18	43.95
2.969	23.8	6.34	5.42	5.27	0.12	1.16	43.94
3.026	23.8	6.34	5.42	5.28	0.12	1.16	43.94
3.125	23.8	6.34	5.49	5.27	0.12	1.17	43.94
3.133	23.8	6.34	5.42	5.22	0.12	1.16	43.94
3.154	23.8	6.34	5.42	5.23	0.12	1.16	43.94
3.185	23.8	6.34	5.42	5.24	0.12	1.16	43.94
3.205	23.8	6.34	5.42	5.25	0.12	1.16	43.94
3.212	23.8	6.34	5.42	5.26	0.14	1.13	43.94
3.226	23.8	6.34	5.42	5.24	0.12	1.13	43.94
3.261	23.8	6.34	5.42	5.24	0.12	1.13	43.94
3.297	23.8	6.34	5.42	5.24	0.12	1.13	43.94
3.322	23.8	6.34	5.54	5.24	0.12	1.16	43.94
3.34	23.8	6.34	5.54	5.24	0.13	1.16	43.94
3.421	23.8	6.34	5.54	5.24	0.12	1.16	43.94
3.463	23.79	6.34	5.74	5.21	0.12	1.17	43.94
3.478	23.79	6.34	5.74	5.22	0.12	1.17	43.94
3.523	23.79	6.34	5.74	5.23	0.12	1.17	43.94
3.587	23.79	6.34	5.74	5.23	0.12	1.17	43.94
3.599	23.79	6.33	5.71	5.22	0.12	1.2	43.94
3.647	23.79	6.33	5.86	5.21	0.12	1.17	43.94
3.746	23.79	6.33	5.86	5.19	0.12	1.17	43.94

3.869	23.79	6.33	5.86	5.2	0.12	1.17	43.94
3.92	23.78	6.33	5.88	5.22	0.12	1.17	43.94
3.921	23.78	6.33	5.88	5.22	0.12	1.17	43.94
3.974	23.78	6.33	5.88	5.21	0.12	1.17	43.94
4.073	23.78	6.33	5.88	5.2	0.12	1.17	43.94
4.109	23.78	6.34	6.08	5.22	0.12	1.21	43.95
4.111	23.78	6.33	6.27	5.2	0.12	1.18	43.94
4.159	23.78	6.33	6.27	5.2	0.12	1.18	43.94
4.174	23.79	6.34	7.7	5.15	0.12	1.13	43.94
4.191	23.79	6.34	7.7	5.16	0.12	1.13	43.94
4.228	23.8	6.34	6.66	5.16	0.12	1.17	43.94
4.268	23.79	6.34	6.61	5.21	0.12	1.12	43.94
4.272	23.79	6.34	6.51	5.2	0.12	1.15	43.94
4.314	23.79	6.34	6.51	5.2	0.12	1.15	43.94
4.349	23.79	6.34	6.73	5.18	0.12	1.16	43.94
4.373	23.79	6.34	6.61	5.19	0.12	1.16	43.94
4.425	23.79	6.34	6.61	5.2	0.13	1.16	43.94
4.577	23.79	6.34	15.92	5.24	0.12	1.23	43.94
4.588	23.79	6.34	15.92	5.23	0.12	1.23	43.94
4.594	23.79	6.33	15.92	5.23	0.12	1.23	43.88



VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE

	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/l)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m³)	Salinidad (PSU)
MÍNIMO	22.93	0.49	0.88	3.38	0.12	0.01	2.75
PROF (metros)	0.188	0.515	1.722	1.146	0.188	0.188	0.515
MÁXIMO	23.56	23.56	1.6	7.39	0.14	0.76	43.54
PROF (metros)	1.231	0.701	2.411	1.231	0.762	2.411	1.081

DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNAS DE AGUA

CTD E01 - Punto 013	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/L)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m3)	Salinidad (PSU)
0 - 1m	23.39	4.63	1.21	5.04	0.12	0.43	31.84
1 - 2m	23.55	6.25	1.21	5.95	0.12	0.57	43.52
2 - 3m	23.56	6.25	1.33	6.63	0.12	0.71	43.52

OBSERVACIONES GENERALES

DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNAS DE AGUA							
Profundidad (m)	Temp. (°C)	Conductividad (S/m)	Turbidez (FTU)	Oxígeno (mg/L)	PAR/Irradiancia (mols-1m-2)	Clorofila (mg/m3)	Salinidad (PSU)
0.188	22.93	0.67	1.02	6.32	0.12	0.01	3.86
0.385	22.97	0.57	1.02	6.34	0.12	0.01	3.25
0.515	23.1	0.49	1.02	6.35	0.13	0.01	2.75
0.57	23.4	5.42	1.24	5.36	0.12	0.57	37.11
0.613	23.41	4.33	1.24	5.65	0.12	0.57	28.91
0.673	23.42	3.37	1.24	5.9	0.12	0.57	21.87
0.701	23.53	6.25	1.19	5.72	0.12	0.54	43.51
0.73	23.53	6.25	1.24	5.01	0.12	0.56	43.51
0.762	23.54	6.25	1.22	4.98	0.14	0.57	43.51
0.767	23.52	6.24	1.26	3.82	0.12	0.54	43.49
0.785	23.52	6.24	1.26	3.81	0.12	0.54	43.49
0.82	23.53	6.24	1.26	3.79	0.12	0.54	43.49
0.867	23.53	6.24	1.26	3.78	0.12	0.54	43.49
0.982	23.53	6.24	1.51	3.76	0.12	0.41	43.49
1.081	23.48	6.25	1.14	3.63	0.12	0.59	43.54
1.096	23.51	6.25	1.12	3.43	0.12	0.6	43.52
1.114	23.51	6.25	1.12	3.41	0.12	0.6	43.52
1.125	23.51	6.25	1.26	3.39	0.14	0.56	43.51
1.146	23.52	6.25	1.53	3.38	0.12	0.39	43.51
1.176	23.52	6.25	1.53	3.38	0.12	0.39	43.51
1.205	23.52	6.25	1.53	3.38	0.12	0.39	43.51
1.211	23.52	6.25	1.38	3.39	0.12	0.43	43.5
1.225	23.52	6.25	1.38	3.4	0.12	0.43	43.5
1.231	23.56	6.25	1.34	7.39	0.12	0.61	43.52
1.271	23.56	6.25	1.22	6.77	0.12	0.56	43.52
1.282	23.56	6.25	1.22	6.72	0.12	0.56	43.52
1.327	23.56	6.25	1.22	6.67	0.12	0.56	43.52
1.374	23.56	6.25	1.17	6.64	0.12	0.52	43.52
1.391	23.56	6.25	1.17	6.61	0.12	0.56	43.52
1.423	23.56	6.25	1.17	6.61	0.12	0.56	43.52
1.474	23.56	6.25	1.26	6.61	0.12	0.51	43.52
1.524	23.56	6.25	1.26	6.61	0.12	0.51	43.52
1.536	23.56	6.25	1.14	6.62	0.12	0.56	43.52
1.55	23.56	6.25	1.14	6.61	0.12	0.56	43.52
1.585	23.56	6.25	1.14	6.61	0.13	0.56	43.52
1.616	23.56	6.25	1.14	6.61	0.12	0.56	43.52
1.643	23.56	6.25	1.14	6.62	0.12	0.56	43.52
1.672	23.56	6.25	1.17	6.61	0.12	0.59	43.52
1.679	23.56	6.25	1.17	6.6	0.12	0.6	43.52

1.68	23.56	6.25	1.17	6.61	0.12	0.6	43.52
1.697	23.56	6.25	1.17	6.61	0.12	0.6	43.52
1.699	23.56	6.25	1.0	6.59	0.12	0.51	43.52
1.702	23.56	6.25	1.0	6.59	0.14	0.51	43.52
1.722	23.56	6.25	0.88	6.59	0.12	0.49	43.52
1.76	23.56	6.25	1.17	6.64	0.12	0.65	43.52
1.801	23.56	6.25	1.17	6.64	0.12	0.65	43.52
1.808	23.55	6.25	1.19	6.65	0.12	0.62	43.52
1.836	23.55	6.25	1.19	6.65	0.12	0.66	43.52
1.857	23.56	6.25	1.22	6.67	0.12	0.65	43.52
1.86	23.56	6.25	1.22	6.69	0.12	0.65	43.52
1.883	23.56	6.25	1.22	6.71	0.12	0.63	43.52
1.921	23.56	6.25	1.26	6.69	0.12	0.66	43.52
1.939	23.56	6.25	1.24	6.68	0.12	0.7	43.52
1.967	23.56	6.25	1.26	6.69	0.12	0.68	43.52
1.989	23.56	6.25	1.19	6.68	0.12	0.65	43.52
2.015	23.55	6.25	1.31	6.67	0.12	0.68	43.52
2.02	23.55	6.25	1.31	6.67	0.12	0.68	43.52
2.092	23.55	6.25	1.31	6.66	0.13	0.68	43.52
2.096	23.55	6.25	1.22	6.59	0.12	0.68	43.52
2.125	23.55	6.25	1.24	6.6	0.12	0.7	43.52
2.178	23.55	6.25	1.24	6.6	0.12	0.7	43.52
2.193	23.55	6.25	1.24	6.61	0.12	0.71	43.52
2.208	23.55	6.25	1.24	6.61	0.12	0.71	43.52
2.259	23.56	6.25	1.31	6.6	0.12	0.74	43.52
2.295	23.56	6.25	1.31	6.6	0.12	0.74	43.52
2.411	23.56	6.25	1.6	6.67	0.12	0.76	43.52
2.435	23.56	6.25	1.6	6.68	0.12	0.76	43.52