INFORME COMPLETO DE RESULTADOS
MEDIDAS DE SONDA OCEÁNICA (CTD-IMIDA)
COORDINADAS POR EL IMIDA EN EL MM

Fecha: Miércoles 20/09/2021

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

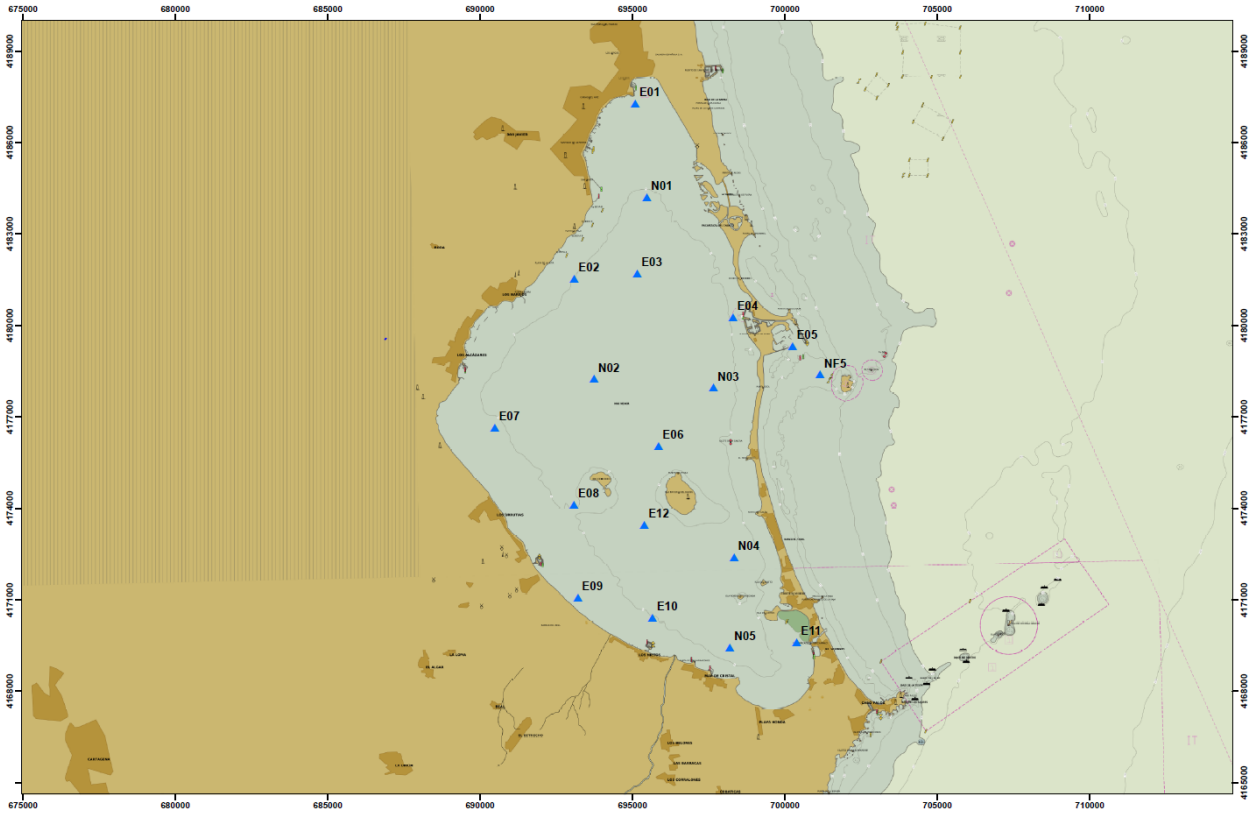
2-4 mg/l: HIPOXIA

>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 11:30 horas. Salida desde el puerto de Lo Pagán, con los técnicos y un patrón de la empresa Taxon.

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.



Escala 1:50.000 (A3)

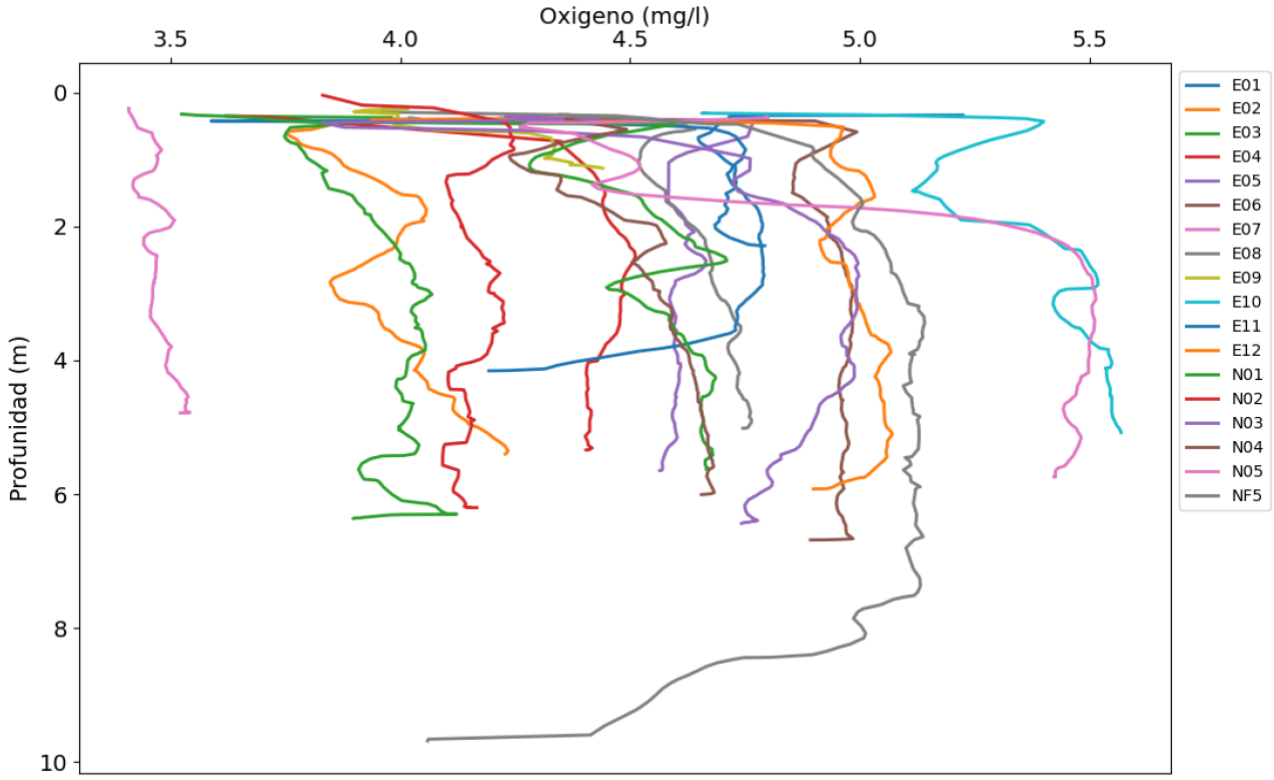
0 1.000 2.000 4.000 6.000 8.000 m

Sistema de Referencia Espacial:
European Terrestrial Reference System (ETRS89). Elipsoide: GRS 1980
Proyección:
Universal Transversa de Mercator (U.T.M.) Huso 30S

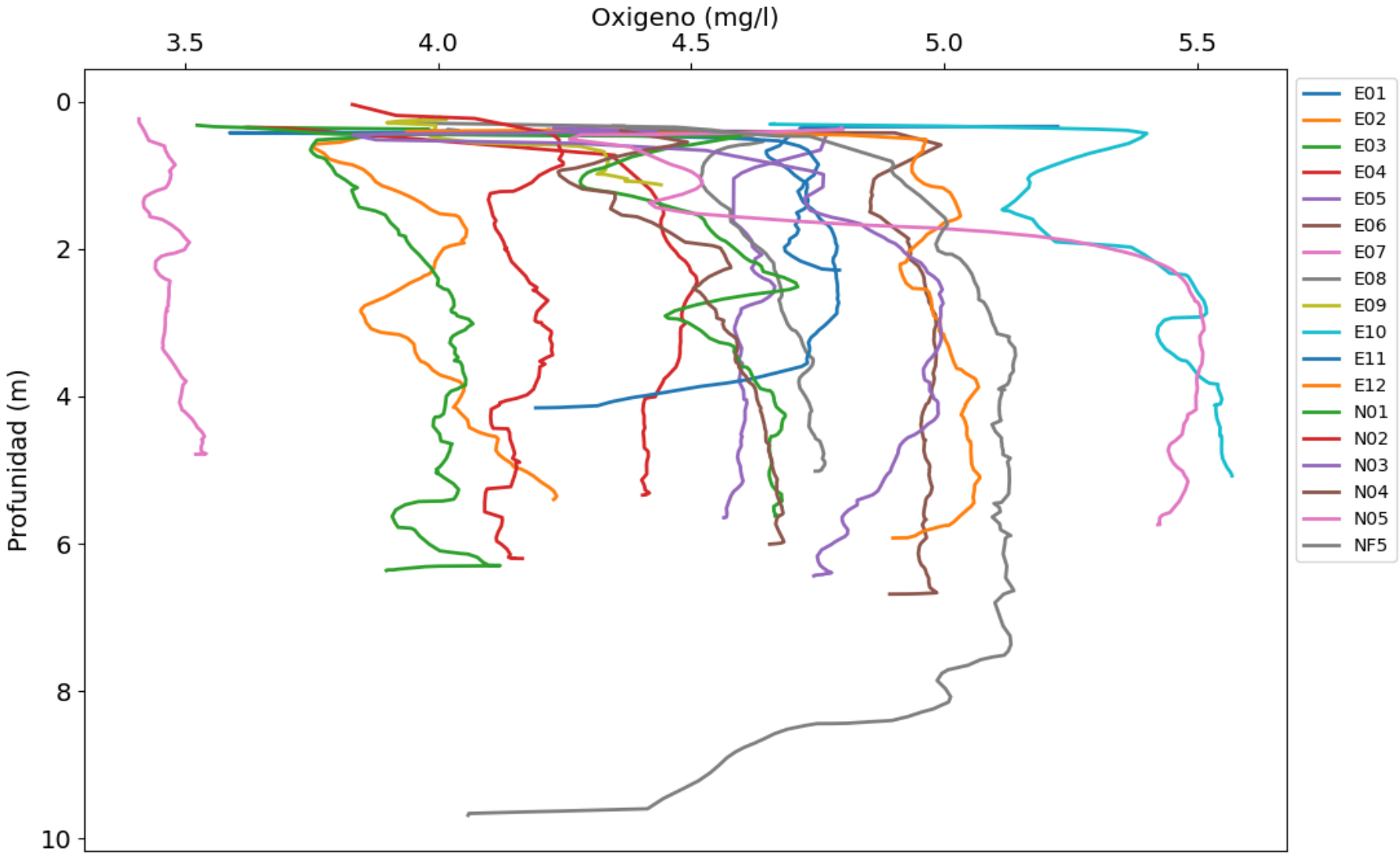
Puntos de control en el Mar Menor.
Fecha: 20 de Septiembre de 2021.
Fuente: IMIDA.

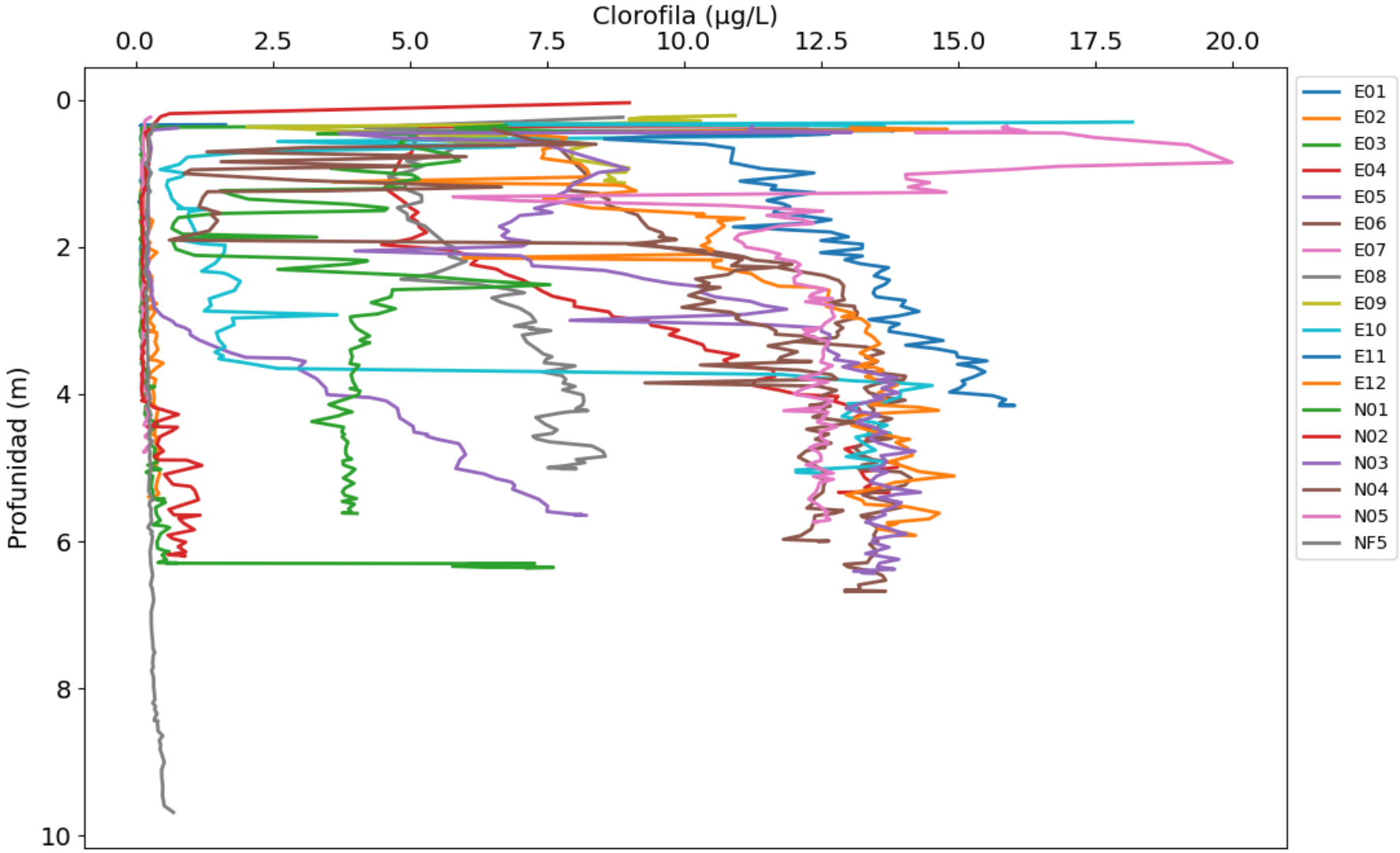
EVOLUCIÓN DE LA SITUACIÓN OXIGENACIÓN

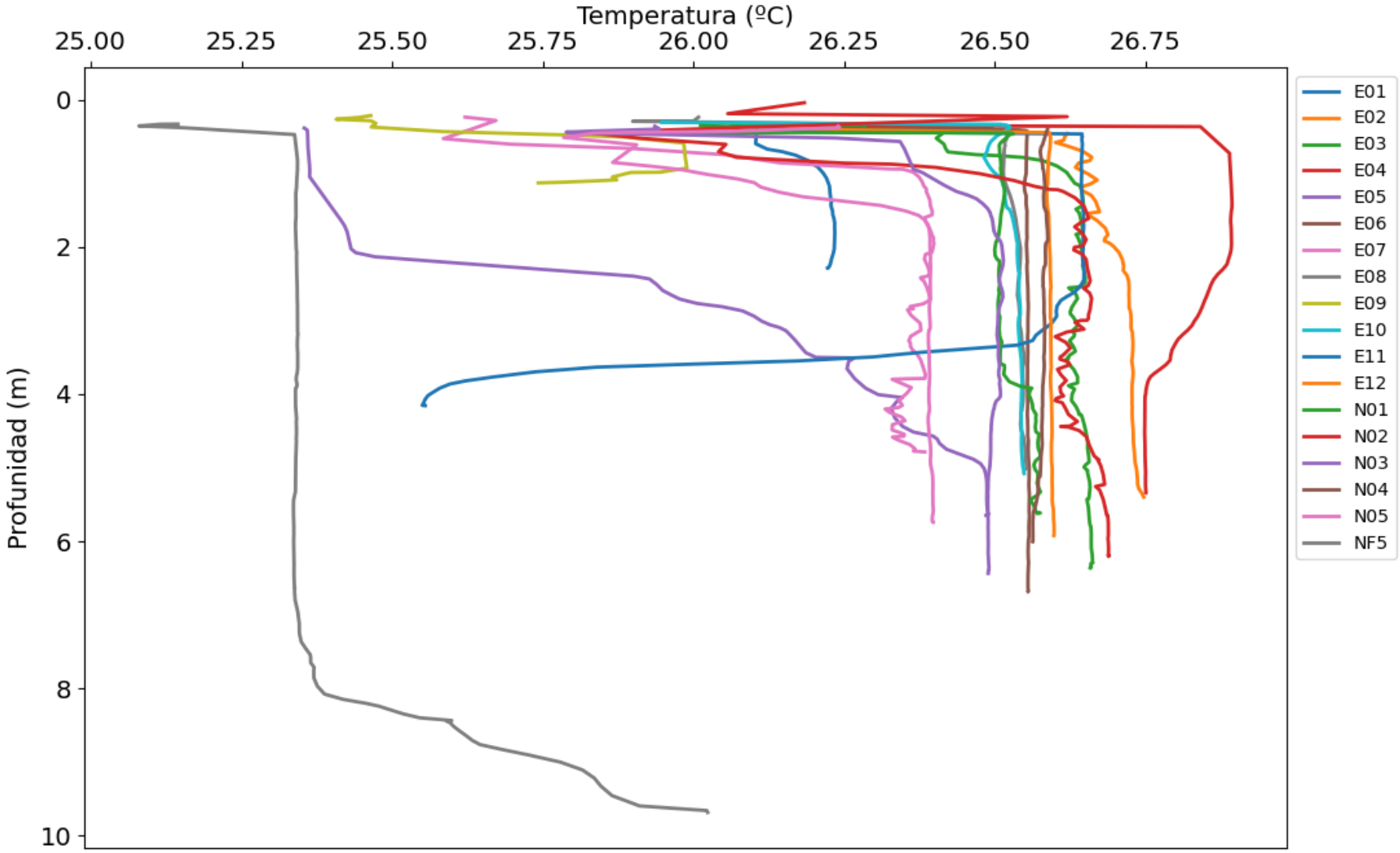
Se aprecia posible hipoxia en algunos de los puntos muestreados como el E01 con hipoxia en todo el perfil y en parte de los perfiles en muchos de puntos muestreados (N01, E03, …).

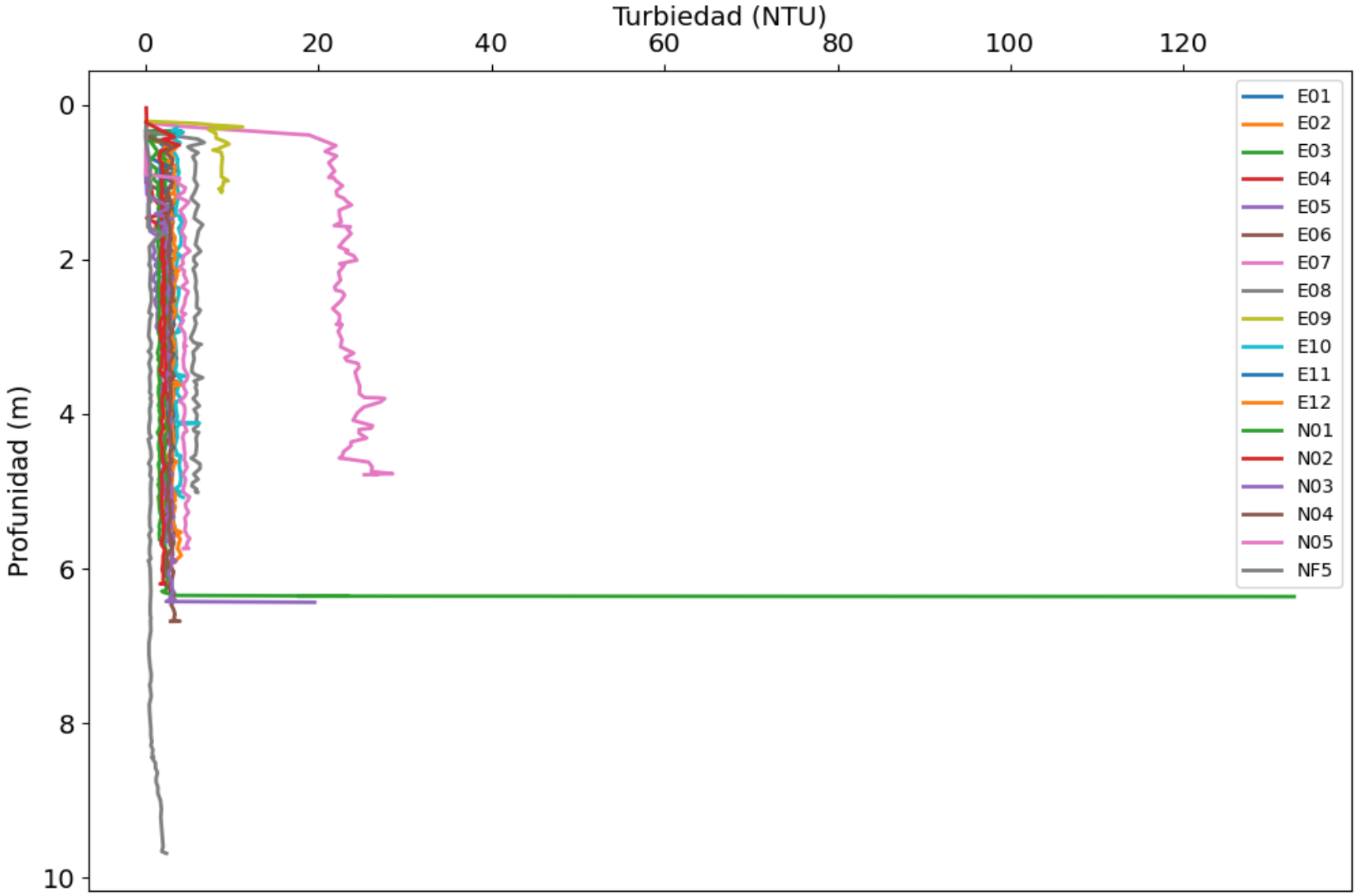


FICHA GENERAL DE MUESTREOS PARA OXÍGENO, TURBIDEZ, CLOROFILA Y TEMPERATURA **FECHA: 20-09-2021**

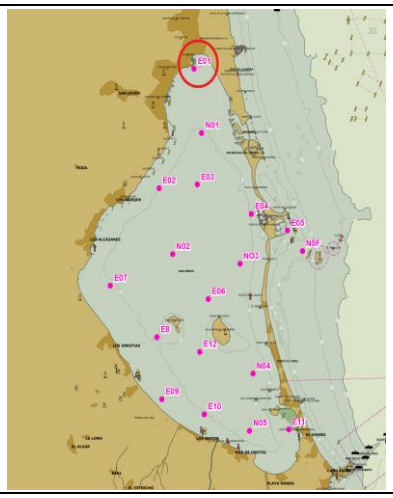


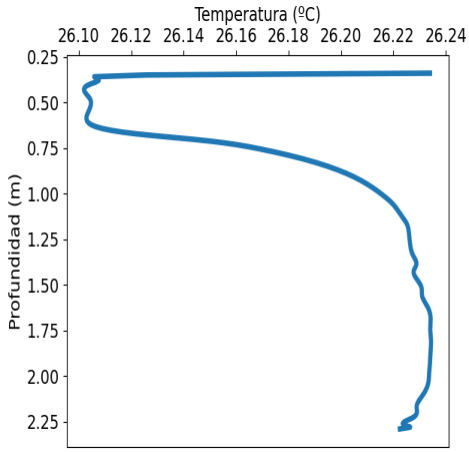

Clorofila (µg/L)
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
Profunidad (m)
0
2
4
6
8
10
E01
E02
E03
E04
E05
E06
E07
E08
E09
E10
E11
E12
N01
N02
N03
N04
N05
NF5

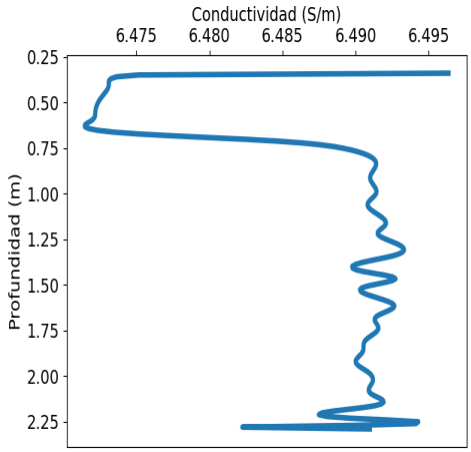

Temperatura (ºC)
25.00
25.25
25.50
25.75
26.00
26.25
26.50
26.75
Profunidad (m)
0
2
4
6
8
10
E01
E02
E03
E04
E05
E06
E07
E08
E09
E10
E11
E12
N01
N02
N03
N04
N05
NF5

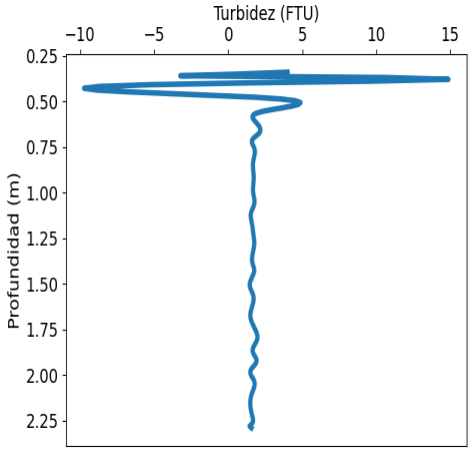

Turbiedad (NTU)
0
20
40
60
80
100
120
Profunidad (m)
0
2
4
6
8
10
E01
E02
E03
E04
E05
E06
E07
E08
E09
E10
E11
E12
N01
N02
N03
N04
N05
NF5

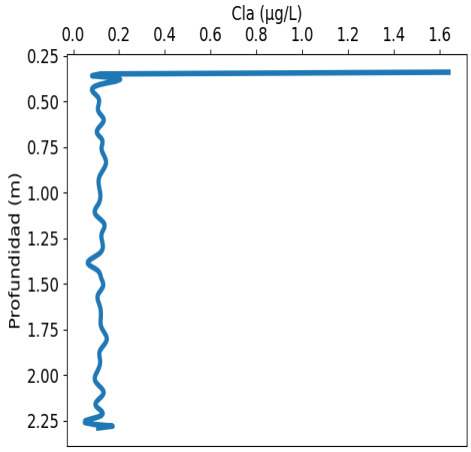
Nombre: CTD E01 - Punto 001 **Fecha: 20/09/2021** **Hora: 07:09:40**

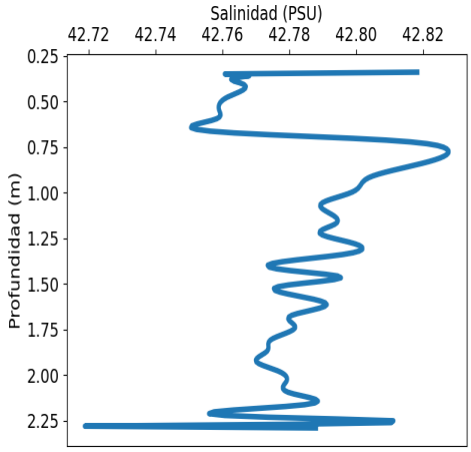


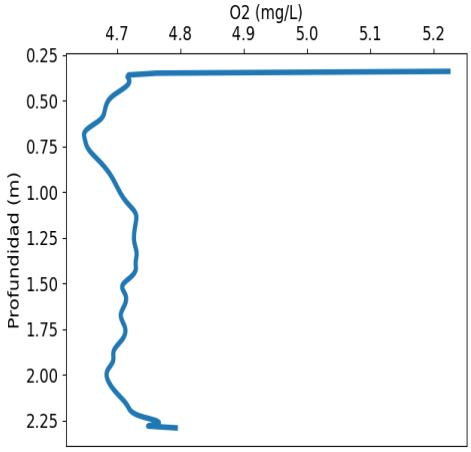


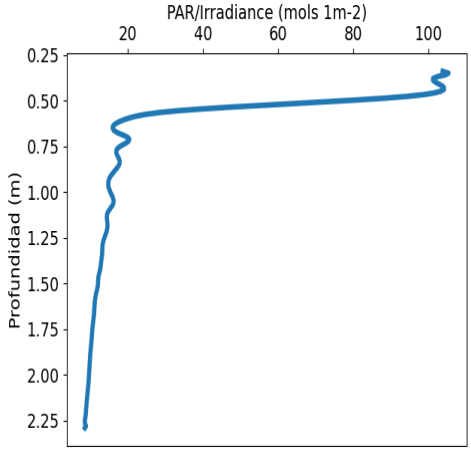












VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE							
	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m^3)	Salinity (PSU)
MÍNIMO	26.1	6.47	0.19	4.65	8.49	0.06	42.76
PROF (metros)	0.4	0.353	0.353	0.673	2.289	1.389	0.344
MÁXIMO	26.23	26.23	4.31	5.22	105.12	1.64	42.83
PROF (metros)	0.34	0.34	0.357	0.34	0.346	0.34	0.756

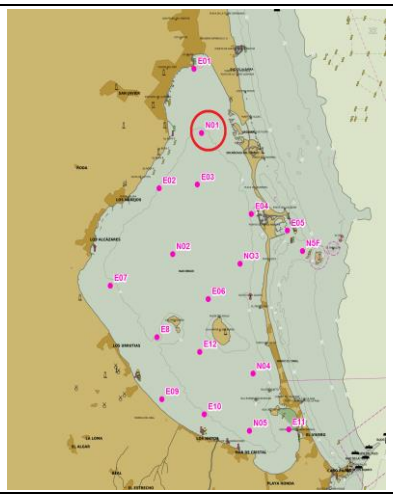
DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
CTD E01 - Punto 001	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0 - 1m	26.14	6.48	1.86	4.73	63.68	0.21	42.78
1 - 2m	26.23	6.49	1.66	4.71	12.15	0.11	42.78
2 - 3m	26.23	6.49	1.59	4.74	8.85	0.11	42.78

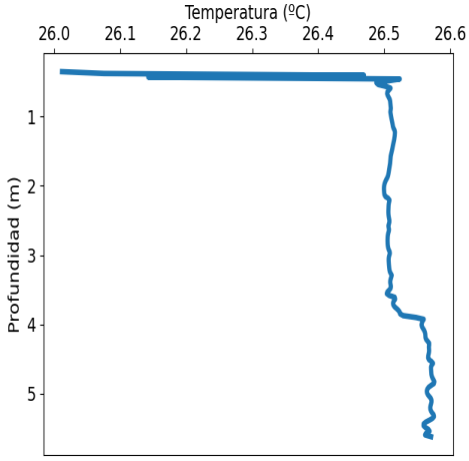
OBSERVACIONES GENERALES

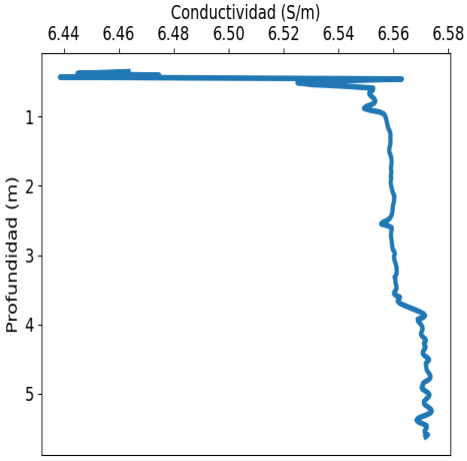
DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
Depth (m)	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0.34	26.23	6.5	4.0	5.22	103.71	1.64	42.82
0.344	26.13	6.48	0.57	4.78	104.92	0.12	42.76
0.346	26.13	6.48	3.74	4.76	105.12	0.13	42.76
0.353	26.12	6.47	0.19	4.75	104.95	0.09	42.76
0.357	26.11	6.47	4.31	4.73	104.24	0.12	42.76
0.358	26.11	6.47	0.38	4.72	104.37	0.1	42.77
0.364	26.11	6.47	2.17	4.71	103.43	0.12	42.77
0.4	26.1	6.47	0.19	4.72	101.9	0.14	42.77
0.476	26.1	6.47	1.53	4.69	94.73	0.11	42.76
0.556	26.1	6.47	2.25	4.68	32.8	0.11	42.76
0.6	26.1	6.47	1.72	4.67	19.52	0.13	42.76
0.673	26.12	6.48	2.1	4.65	16.97	0.1	42.76
0.707	26.15	6.48	1.64	4.65	20.25	0.12	42.8
0.756	26.17	6.49	1.75	4.65	17.46	0.12	42.83
0.831	26.19	6.49	1.68	4.67	17.76	0.14	42.82
0.916	26.21	6.49	1.72	4.69	15.24	0.11	42.8
0.998	26.22	6.49	1.68	4.7	15.22	0.12	42.8
1.061	26.22	6.49	1.75	4.72	16.07	0.11	42.79
1.114	26.22	6.49	1.53	4.73	14.53	0.09	42.79
1.17	26.23	6.49	1.6	4.73	14.49	0.14	42.79
1.222	26.23	6.49	1.68	4.73	14.18	0.12	42.79
1.274	26.23	6.49	1.75	4.73	13.33	0.13	42.8
1.337	26.23	6.49	1.64	4.73	13.09	0.11	42.8
1.389	26.23	6.49	1.64	4.73	12.78	0.06	42.77
1.422	26.23	6.49	1.75	4.73	12.58	0.1	42.78
1.463	26.23	6.49	1.6	4.72	12.1	0.12	42.8
1.511	26.23	6.49	1.45	4.71	11.94	0.13	42.78
1.561	26.23	6.49	1.68	4.71	11.41	0.11	42.78
1.615	26.23	6.49	1.64	4.71	11.07	0.11	42.79
1.674	26.23	6.49	1.49	4.71	10.9	0.12	42.78
1.739	26.23	6.49	1.75	4.71	10.53	0.12	42.78
1.806	26.23	6.49	1.95	4.71	10.28	0.15	42.77
1.868	26.23	6.49	1.64	4.69	10.0	0.12	42.77
1.925	26.23	6.49	1.91	4.69	9.81	0.12	42.77
1.978	26.23	6.49	1.49	4.68	9.65	0.11	42.78
2.033	26.23	6.49	1.75	4.69	9.5	0.1	42.78
2.098	26.23	6.49	1.6	4.7	9.2	0.13	42.78
2.167	26.23	6.49	1.49	4.72	8.9	0.1	42.78
2.23	26.23	6.49	1.64	4.74	8.63	0.11	42.77

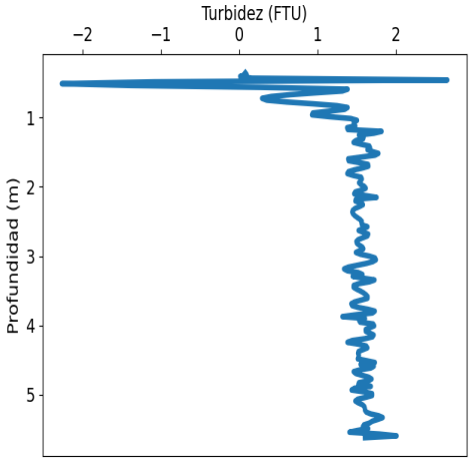
2.272	26.22	6.49	1.53	4.76	8.65	0.11	42.76
2.288	26.22	6.49	1.53	4.78	8.57	0.13	42.77
2.289	26.22	6.49	1.56	4.79	8.49	0.11	42.79

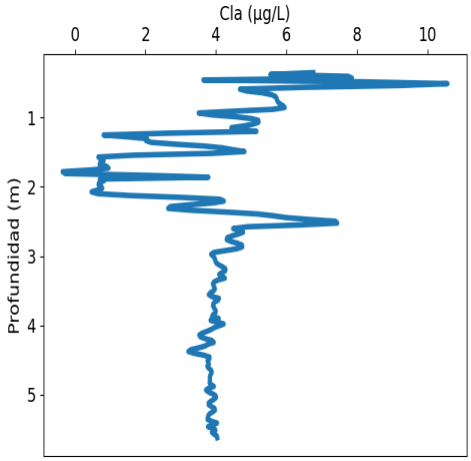
Nombre: CTD N01 - Punto 002 **Fecha: 20/09/2021** **Hora: 07:09:32**

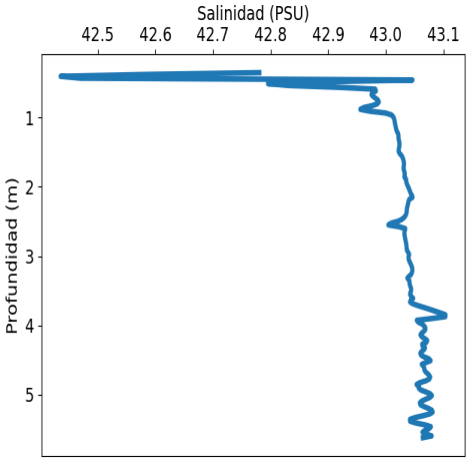


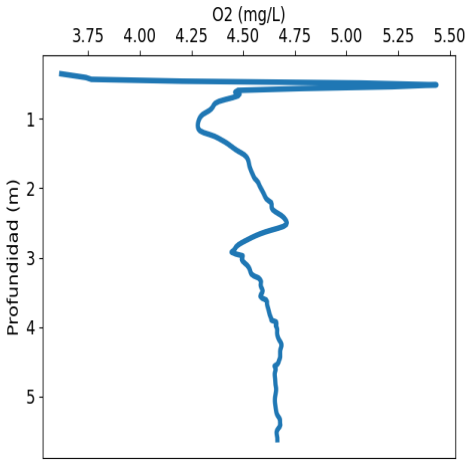


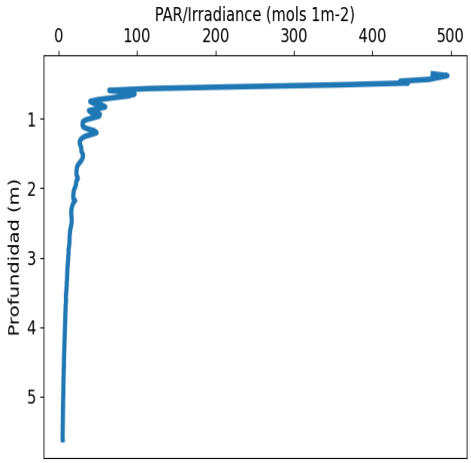












VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE							
	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m^3)	Salinity (PSU)
MÍNIMO	25.95	6.44	0.04	3.62	4.84	0.66	42.47
PROF (metros)	0.443	0.433	0.443	0.354	5.558	1.751	0.433
MÁXIMO	26.58	26.58	2.48	4.71	495.32	7.9	43.1
PROF (metros)	4.855	3.831	0.459	2.461	0.385	0.433	3.831

DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
CTD N01 - Punto 002	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0 - 1m	26.4	6.53	0.87	4.18	274.53	5.19	42.9
1 - 2m	26.51	6.56	1.56	4.45	29.72	2.65	43.03
2 - 3m	26.51	6.56	1.54	4.6	16.02	4.27	43.03
3 - 4m	26.52	6.56	1.56	4.59	9.62	4.04	43.05
4 - 5m	26.57	6.57	1.59	4.67	6.68	3.77	43.07
5 - 6m	26.57	6.57	1.67	4.67	5.18	3.89	43.07

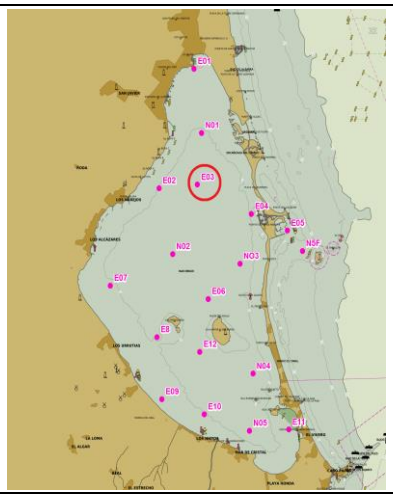
OBSERVACIONES GENERALES
CLOROFILA elevada en la(s) columna(s) de agua 0 - 1m, 1 - 2m, 2 - 3m, 3 - 4m, 4 - 5m, 5 - 6m con los valores 5.19, 2.65, 4.27, 4.04, 3.77, 3.89 respectivamente

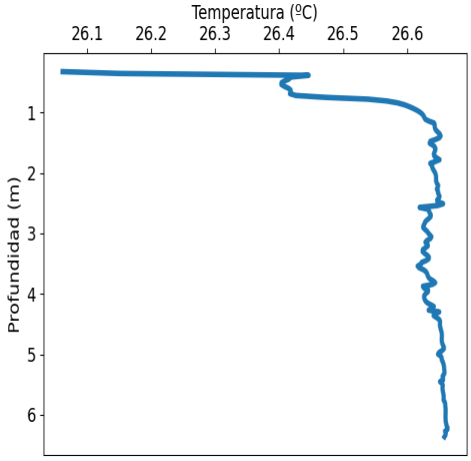
DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
Depth (m)	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0.354	26.01	6.46	0.08	3.62	477.18	6.76	42.78
0.385	26.15	6.45	0.08	3.69	495.32	5.83	42.55
0.433	26.16	6.44	0.15	3.77	473.1	7.9	42.47
0.443	25.95	6.44	0.04	3.81	474.2	6.49	42.63
0.454	26.52	6.56	0.5	4.07	458.53	4.58	43.05
0.459	26.53	6.56	2.48	4.19	436.74	3.78	43.05
0.467	26.53	6.56	1.87	4.3	452.82	3.31	43.05
0.474	26.52	6.56	0.53	4.6	459.49	5.11	42.99
0.588	26.51	6.55	1.3	4.5	66.45	4.81	42.98
0.62	26.51	6.55	1.3	4.46	85.43	4.9	42.98
0.75	26.51	6.55	0.34	4.38	40.16	5.73	42.99
0.832	26.51	6.55	1.26	4.35	59.23	5.91	42.98
0.897	26.51	6.55	1.26	4.33	37.34	5.15	42.96
0.933	26.51	6.55	0.95	4.31	51.73	3.56	43.0
0.968	26.51	6.56	0.95	4.29	50.28	4.02	43.01
1.02	26.51	6.56	1.45	4.29	33.73	5.04	43.01
1.078	26.51	6.56	1.45	4.28	30.4	5.17	43.02
1.134	26.51	6.56	1.45	4.28	33.52	4.64	43.02
1.177	26.51	6.56	1.41	4.29	46.04	4.58	43.02
1.207	26.52	6.56	1.87	4.32	47.62	4.92	43.02
1.237	26.52	6.56	1.6	4.35	38.02	1.54	43.02
1.287	26.52	6.56	1.6	4.38	28.92	1.73	43.02
1.353	26.51	6.56	1.45	4.42	26.66	2.07	43.02
1.422	26.51	6.56	1.68	4.45	28.79	3.9	43.02
1.475	26.51	6.56	1.64	4.48	29.01	4.59	43.02
1.508	26.51	6.56	1.75	4.5	30.68	4.54	43.02
1.548	26.51	6.56	1.72	4.52	30.8	1.45	43.03
1.603	26.51	6.56	1.37	4.52	28.73	0.78	43.03
1.676	26.51	6.56	1.64	4.53	23.94	0.7	43.03
1.751	26.51	6.56	1.49	4.54	22.7	0.66	43.03
1.826	26.51	6.56	1.41	4.55	23.18	0.85	43.03
1.868	26.51	6.56	1.56	4.56	24.14	3.3	43.03
1.882	26.5	6.56	1.56	4.56	23.03	1.07	43.03
1.895	26.5	6.56	1.56	4.57	22.48	0.74	43.03

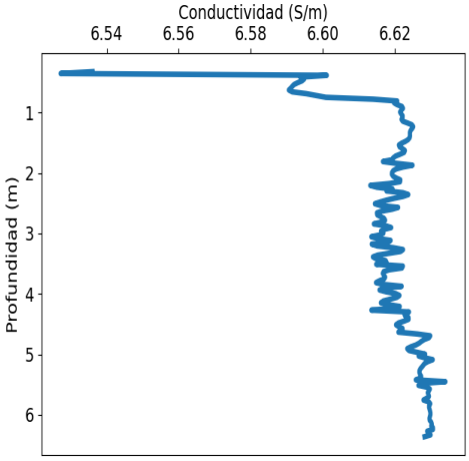
1.943	26.5	6.56	1.53	4.58	22.05	0.69	43.04
2.033	26.5	6.56	1.6	4.59	19.26	0.74	43.04
2.116	26.5	6.56	1.53	4.61	18.53	1.08	43.04
2.166	26.5	6.56	1.68	4.62	19.74	3.63	43.04
2.18	26.51	6.56	1.49	4.62	20.94	4.1	43.04
2.192	26.51	6.56	1.45	4.63	20.02	4.23	43.04
2.233	26.51	6.56	1.56	4.64	17.83	3.92	43.04
2.307	26.51	6.56	1.49	4.64	16.19	2.59	43.04
2.391	26.51	6.56	1.45	4.68	16.09	5.13	43.04
2.461	26.51	6.56	1.53	4.71	16.49	6.32	43.03
2.515	26.51	6.56	1.56	4.71	16.21	7.56	43.01
2.551	26.51	6.56	1.56	4.69	15.47	6.38	43.0
2.583	26.51	6.56	1.64	4.66	14.94	4.68	43.03
2.622	26.51	6.56	1.53	4.62	14.44	4.68	43.03
2.679	26.51	6.56	1.64	4.56	13.89	4.65	43.03
2.758	26.51	6.56	1.53	4.51	13.76	4.3	43.03
2.84	26.51	6.56	1.53	4.47	13.06	4.74	43.04
2.911	26.51	6.56	1.56	4.45	12.5	4.42	43.04
2.943	26.51	6.56	1.49	4.45	12.56	3.99	43.04
2.952	26.51	6.56	1.49	4.47	12.36	3.92	43.04
3.006	26.51	6.56	1.68	4.49	12.01	3.93	43.04
3.111	26.51	6.56	1.6	4.52	11.33	4.04	43.04
3.211	26.51	6.56	1.37	4.54	10.82	4.27	43.05
3.268	26.51	6.56	1.56	4.56	10.59	4.09	43.04
3.29	26.51	6.56	1.45	4.57	10.56	4.16	43.04
3.301	26.51	6.56	1.45	4.58	10.65	4.27	43.04
3.331	26.51	6.56	1.68	4.59	10.38	4.16	43.04
3.398	26.51	6.56	1.53	4.58	10.08	3.91	43.04
3.494	26.51	6.56	1.53	4.59	9.52	3.95	43.04
3.587	26.51	6.56	1.64	4.59	9.19	3.91	43.04
3.607	26.52	6.56	1.64	4.61	9.34	4.08	43.05
3.644	26.52	6.56	1.53	4.62	9.04	4.03	43.04
3.734	26.51	6.56	1.49	4.62	8.68	3.93	43.06
3.831	26.52	6.57	1.64	4.63	8.39	3.96	43.1
3.895	26.54	6.57	1.49	4.64	8.2	4.02	43.09
3.92	26.56	6.57	1.72	4.65	8.2	4.03	43.06
3.924	26.56	6.57	1.6	4.66	8.16	3.91	43.05
3.956	26.56	6.57	1.56	4.66	8.05	4.09	43.06
4.01	26.56	6.57	1.72	4.66	7.83	4.06	43.07
4.072	26.56	6.57	1.6	4.66	7.61	3.82	43.07
4.141	26.56	6.57	1.72	4.67	7.42	3.53	43.06
4.199	26.56	6.57	1.56	4.68	7.31	3.75	43.07
4.242	26.57	6.57	1.37	4.69	7.24	3.95	43.07
4.272	26.57	6.57	1.53	4.69	7.18	3.78	43.06
4.291	26.57	6.57	1.6	4.68	7.19	3.72	43.06
4.317	26.57	6.57	1.64	4.68	7.06	3.57	43.07
4.373	26.57	6.57	1.53	4.68	6.84	3.21	43.06
4.449	26.57	6.57	1.53	4.68	6.64	3.79	43.06
4.512	26.57	6.57	1.64	4.67	6.58	3.76	43.08
4.537	26.57	6.57	1.72	4.66	6.6	3.79	43.07
4.544	26.57	6.57	1.6	4.66	6.56	3.81	43.07
4.58	26.57	6.57	1.68	4.66	6.43	3.76	43.06
4.653	26.57	6.57	1.49	4.65	6.26	3.87	43.07
4.731	26.57	6.57	1.6	4.65	6.12	3.83	43.08
4.802	26.57	6.57	1.64	4.66	5.98	3.83	43.07
4.855	26.58	6.57	1.53	4.66	5.95	3.87	43.05
4.882	26.57	6.57	1.68	4.66	5.9	3.94	43.06
4.909	26.57	6.57	1.45	4.66	5.83	3.78	43.06

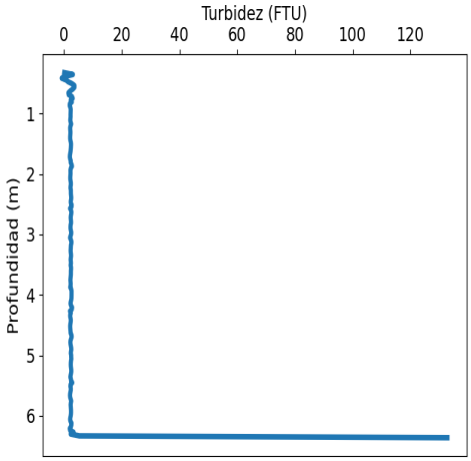
4.961	26.56	6.57	1.6	4.66	5.73	3.79	43.07
5.02	26.57	6.57	1.68	4.65	5.65	4.0	43.08
5.075	26.57	6.57	1.49	4.65	5.57	3.92	43.07
5.141	26.57	6.57	1.56	4.66	5.42	3.79	43.06
5.212	26.57	6.57	1.6	4.66	5.33	3.98	43.08
5.278	26.57	6.57	1.68	4.67	5.28	3.82	43.08
5.328	26.58	6.57	1.83	4.68	5.21	3.77	43.05
5.373	26.57	6.57	1.72	4.68	5.16	3.81	43.04
5.419	26.56	6.57	1.64	4.68	5.1	4.03	43.06
5.457	26.56	6.57	1.56	4.67	5.09	3.77	43.08
5.494	26.56	6.57	1.64	4.66	5.03	3.99	43.07
5.558	26.57	6.57	1.56	4.66	4.84	3.88	43.07
5.604	26.57	6.57	1.64	4.67	5.0	3.94	43.08
5.614	26.58	6.57	1.64	4.67	5.02	3.77	43.07
5.617	26.57	6.57	2.06	4.67	5.03	3.79	43.06
5.62	26.57	6.57	1.87	4.67	5.03	3.99	43.06
5.621	26.57	6.57	1.6	4.67	5.06	4.04	43.06

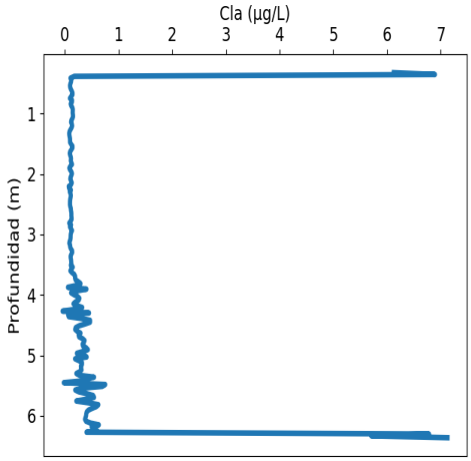
Nombre: CTD E03 - Punto 003 **Fecha: 20/09/2021** **Hora: 07:09:10**

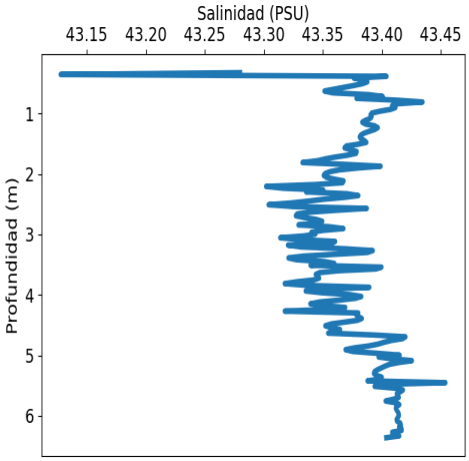


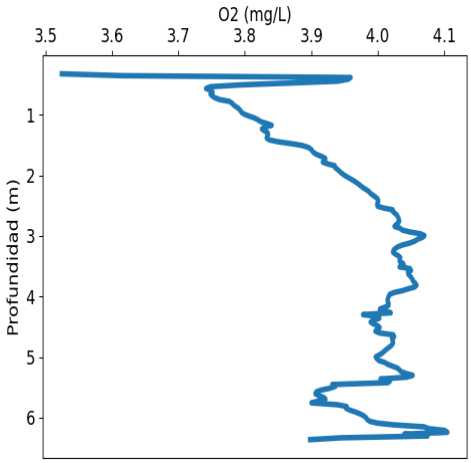


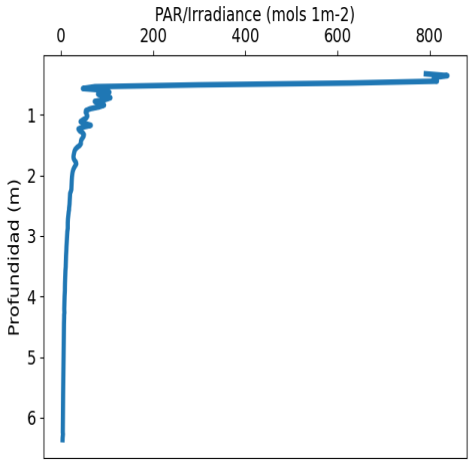












VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE							
	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m^3)	Salinity (PSU)
MÍNIMO	26.06	6.53	0.04	3.52	3.51	0.08	43.13
PROF (metros)	0.324	0.354	0.377	0.324	6.362	1.892	0.354
MÁXIMO	26.66	26.66	132.79	4.12	879.46	7.62	43.43
PROF (metros)	4.846	4.661	6.362	6.293	0.401	6.355	0.786

DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
CTD E03 - Punto 003	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0 - 1m	26.42	6.59	1.57	3.8	434.68	1.12	43.36
1 - 2m	26.64	6.62	2.31	3.89	39.07	0.12	43.37
2 - 3m	26.64	6.62	2.34	4.01	17.92	0.11	43.35
3 - 4m	26.63	6.62	2.35	4.04	10.52	0.14	43.35
4 - 5m	26.65	6.62	2.37	4.01	6.61	0.27	43.37
5 - 6m	26.66	6.63	2.38	3.98	4.97	0.39	43.41
6 - 7m	26.66	6.63	10.73	4.02	3.93	3.43	43.41

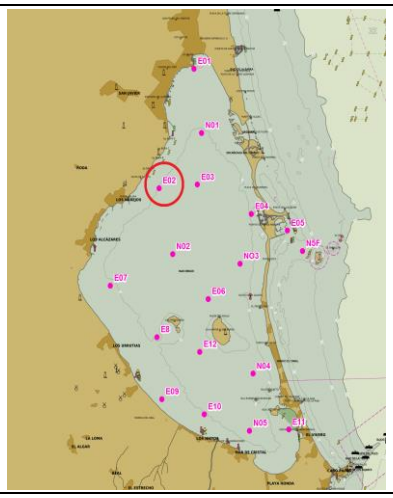
OBSERVACIONES GENERALES
HIPOXIA en la(s) columna(s) de agua 0 - 1m, 1 - 2m, 5 - 6m con los valores 3.8, 3.89, 3.98 respectivamente.
CLOROFILA elevada en la(s) columna(s) de agua 6 - 7m con los valores 3.43 respectivamente

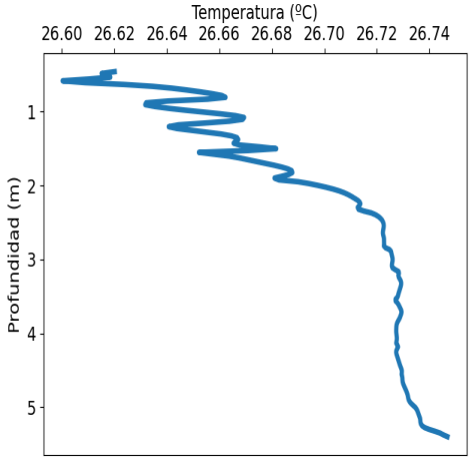
DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
Depth (m)	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0.324	26.06	6.54	0.08	3.52	791.81	6.13	43.28
0.342	26.08	6.54	0.11	3.56	771.16	6.3	43.26
0.354	26.15	6.53	3.05	3.61	837.68	6.94	43.13
0.377	26.5	6.61	0.04	3.98	817.35	0.12	43.4
0.382	26.46	6.6	0.15	3.96	804.76	0.11	43.41
0.401	26.42	6.59	1.14	3.99	879.46	0.11	43.38
0.405	26.42	6.59	0.08	3.97	853.95	0.1	43.38
0.426	26.42	6.59	0.11	3.96	801.41	0.11	43.38
0.447	26.42	6.59	0.72	3.94	814.14	0.12	43.39
0.525	26.4	6.59	3.4	3.76	131.65	0.1	43.38
0.605	26.42	6.59	2.79	3.75	108.03	0.12	43.36
0.66	26.42	6.59	1.49	3.75	79.59	0.14	43.36
0.711	26.42	6.6	2.37	3.75	105.88	0.12	43.4
0.748	26.47	6.6	3.05	3.76	96.66	0.09	43.38
0.764	26.51	6.61	1.95	3.77	84.09	0.11	43.38
0.786	26.55	6.62	2.63	3.78	70.98	0.14	43.43
0.828	26.58	6.62	2.21	3.78	91.7	0.11	43.42
0.902	26.6	6.62	2.21	3.79	62.78	0.14	43.41
0.987	26.62	6.62	2.25	3.8	55.84	0.14	43.39
1.068	26.63	6.62	2.25	3.82	52.02	0.15	43.39
1.138	26.63	6.62	2.25	3.83	48.34	0.11	43.38
1.17	26.64	6.62	2.48	3.84	65.17	0.13	43.39
1.204	26.64	6.62	2.25	3.83	47.33	0.14	43.39
1.297	26.65	6.62	2.21	3.83	47.4	0.09	43.39
1.435	26.65	6.62	2.17	3.84	43.09	0.1	43.38
1.488	26.63	6.62	2.4	3.88	42.82	0.1	43.39
1.54	26.64	6.62	2.4	3.9	34.76	0.14	43.37
1.643	26.64	6.62	2.21	3.91	28.13	0.09	43.38
1.746	26.65	6.62	2.1	3.92	28.94	0.12	43.35
1.808	26.64	6.62	2.33	3.92	33.5	0.12	43.33
1.832	26.63	6.62	2.33	3.94	31.67	0.14	43.34
1.841	26.64	6.62	2.59	3.94	30.92	0.13	43.37
1.892	26.64	6.62	2.48	3.94	27.39	0.08	43.39

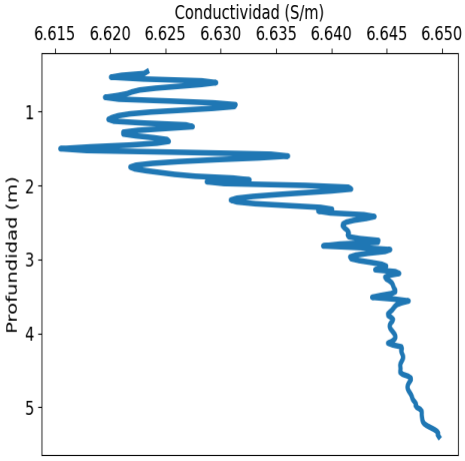
1.979	26.64	6.62	2.25	3.95	24.57	0.13	43.35
2.082	26.64	6.62	2.17	3.96	23.4	0.1	43.36
2.175	26.65	6.62	2.37	3.97	22.92	0.12	43.34
2.239	26.65	6.62	2.25	3.98	22.54	0.09	43.33
2.253	26.65	6.62	2.33	3.99	22.24	0.12	43.36
2.27	26.65	6.62	2.37	3.99	21.03	0.11	43.34
2.324	26.65	6.62	2.37	3.99	19.64	0.1	43.37
2.411	26.65	6.62	2.48	4.0	19.0	0.1	43.35
2.489	26.65	6.62	2.4	4.0	18.41	0.09	43.32
2.543	26.64	6.62	2.52	4.01	17.69	0.1	43.34
2.557	26.62	6.62	2.14	4.02	17.73	0.11	43.38
2.584	26.63	6.62	2.25	4.02	17.14	0.11	43.38
2.636	26.63	6.62	2.56	4.03	16.3	0.12	43.34
2.702	26.64	6.62	2.33	4.03	15.4	0.12	43.33
2.774	26.63	6.62	2.4	4.03	14.8	0.11	43.35
2.83	26.63	6.62	2.37	4.03	14.84	0.09	43.34
2.857	26.63	6.61	2.21	4.03	14.89	0.13	43.33
2.877	26.62	6.62	2.25	4.03	14.68	0.09	43.36
2.91	26.63	6.62	2.25	4.04	14.1	0.12	43.36
2.955	26.63	6.62	2.48	4.06	13.64	0.12	43.34
3.016	26.63	6.62	2.33	4.07	13.24	0.11	43.34
3.061	26.64	6.61	2.1	4.06	12.96	0.11	43.31
3.096	26.63	6.62	2.44	4.05	12.5	0.1	43.34
3.143	26.63	6.62	2.56	4.04	12.09	0.08	43.36
3.182	26.63	6.61	2.37	4.03	11.97	0.1	43.32
3.215	26.63	6.62	2.37	4.03	11.86	0.1	43.34
3.277	26.62	6.62	2.29	4.02	11.36	0.14	43.39
3.352	26.63	6.62	2.44	4.03	10.93	0.11	43.34
3.418	26.63	6.61	2.29	4.03	10.57	0.12	43.33
3.474	26.62	6.62	2.4	4.04	10.41	0.12	43.36
3.507	26.62	6.62	2.29	4.03	10.33	0.11	43.34
3.517	26.62	6.62	2.25	4.03	10.27	0.11	43.34
3.532	26.62	6.62	2.37	4.04	10.08	0.14	43.38
3.583	26.62	6.62	2.4	4.05	9.66	0.1	43.38
3.669	26.63	6.62	2.37	4.05	9.24	0.18	43.34
3.764	26.64	6.62	2.21	4.05	8.84	0.22	43.34
3.848	26.64	6.62	2.25	4.05	8.6	0.19	43.34
3.885	26.62	6.62	2.21	4.04	8.62	0.14	43.39
3.898	26.62	6.62	2.4	4.04	8.56	0.35	43.37
3.931	26.63	6.62	2.59	4.03	8.32	0.24	43.34
4.0	26.63	6.62	2.59	4.02	7.89	0.18	43.38
4.086	26.63	6.62	2.48	4.01	7.62	0.26	43.36
4.167	26.63	6.62	2.33	4.01	7.37	0.19	43.34
4.239	26.64	6.62	2.67	4.01	7.29	0.18	43.35
4.278	26.64	6.62	2.14	4.0	7.33	0.17	43.34
4.281	26.64	6.62	2.21	3.99	7.24	0.28	43.35
4.316	26.64	6.62	2.21	3.99	6.99	0.2	43.38
4.404	26.65	6.62	2.33	3.99	6.68	0.4	43.38
4.51	26.65	6.62	2.14	4.0	6.43	0.27	43.35
4.607	26.65	6.62	2.25	4.01	6.3	0.24	43.36
4.646	26.65	6.62	2.37	4.03	6.34	0.29	43.36
4.661	26.65	6.63	2.56	4.03	6.19	0.26	43.39
4.74	26.65	6.63	2.33	4.02	5.94	0.36	43.41
4.846	26.66	6.63	2.37	4.02	5.77	0.34	43.39
4.921	26.66	6.62	2.48	4.01	5.68	0.4	43.37
4.964	26.65	6.63	2.33	4.0	5.66	0.22	43.39
4.993	26.65	6.63	2.48	4.0	5.63	0.33	43.41
5.022	26.65	6.63	2.44	4.0	5.59	0.46	43.4

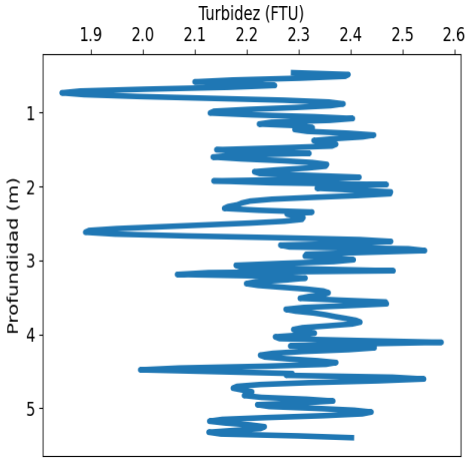
5.038	26.65	6.63	2.56	4.0	5.58	0.25	43.39
5.06	26.65	6.63	2.52	4.0	5.5	0.19	43.41
5.114	26.65	6.63	2.37	4.01	5.36	0.31	43.42
5.186	26.66	6.63	2.37	4.03	5.21	0.3	43.4
5.264	26.66	6.63	2.52	4.04	5.09	0.29	43.39
5.337	26.66	6.63	2.25	4.04	5.06	0.32	43.4
5.395	26.66	6.63	2.44	4.03	5.01	0.3	43.4
5.422	26.66	6.63	2.4	4.01	5.01	0.38	43.39
5.424	26.65	6.63	2.33	3.98	5.0	0.53	43.39
5.428	26.65	6.63	2.48	3.96	4.97	0.37	43.41
5.471	26.65	6.63	2.44	3.94	4.89	0.55	43.41
5.539	26.66	6.63	2.33	3.92	4.8	0.37	43.41
5.628	26.66	6.63	2.14	3.91	4.69	0.38	43.41
5.717	26.66	6.63	2.25	3.92	4.61	0.45	43.41
5.777	26.66	6.63	2.44	3.92	4.58	0.32	43.41
5.79	26.66	6.63	2.33	3.95	4.58	0.51	43.41
5.813	26.66	6.63	2.29	3.95	4.52	0.62	43.42
5.896	26.66	6.63	2.4	3.96	4.41	0.46	43.41
6.007	26.66	6.63	2.29	3.98	4.34	0.39	43.41
6.096	26.66	6.63	2.29	4.0	4.3	0.4	43.41
6.131	26.66	6.63	2.63	4.04	4.3	0.55	43.42
6.14	26.66	6.63	2.59	4.06	4.25	0.61	43.42
6.184	26.66	6.63	2.33	4.08	4.2	0.48	43.41
6.25	26.66	6.63	2.44	4.09	4.07	0.56	43.41
6.29	26.66	6.63	2.21	4.1	4.13	0.41	43.41
6.293	26.66	6.63	1.87	4.12	4.03	0.61	43.41
6.295	26.66	6.63	1.95	4.12	4.01	0.76	43.41
6.297	26.66	6.63	2.1	4.12	3.99	0.57	43.41
6.299	26.66	6.63	2.21	4.11	3.93	3.81	43.41
6.303	26.66	6.63	2.29	4.03	3.9	7.28	43.41
6.304	26.66	6.63	2.25	4.0	3.86	6.97	43.41
6.31	26.66	6.63	2.17	3.98	3.77	6.06	43.41
6.324	26.66	6.63	2.63	3.95	3.66	6.17	43.41
6.338	26.66	6.63	2.98	3.94	3.63	5.78	43.41
6.346	26.66	6.63	3.51	3.92	3.6	6.07	43.41
6.354	26.66	6.63	23.46	3.91	3.58	6.4	43.41
6.355	26.66	6.63	17.59	3.9	3.58	7.62	43.4
6.362	26.66	6.63	132.79	3.9	3.51	7.13	43.4

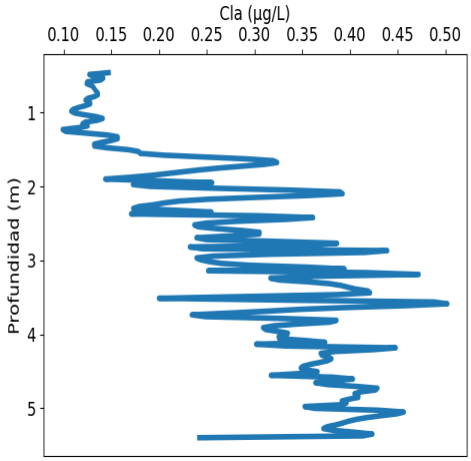
Nombre: CTD E02 - Punto 004 **Fecha: 20/09/2021** **Hora: 07:09:43**

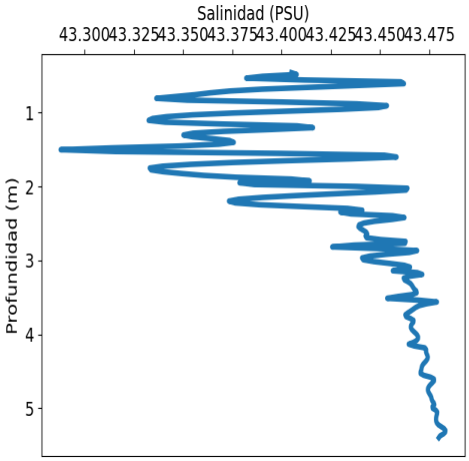


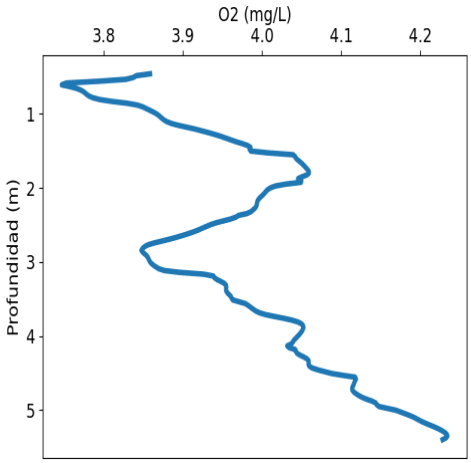


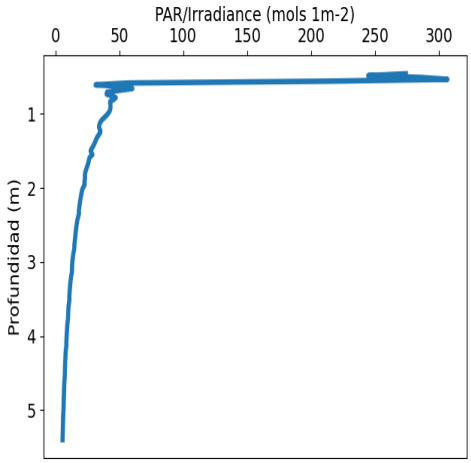












VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE							
	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m^3)	Salinity (PSU)
MÍNIMO	26.6	6.62	1.91	3.75	5.69	0.1	43.31
PROF (metros)	0.583	0.461	0.702	0.583	5.399	1.238	1.525
MÁXIMO	26.75	26.75	2.56	4.23	273.97	0.51	43.48
PROF (metros)	5.385	3.163	2.856	5.284	0.461	3.58	3.58

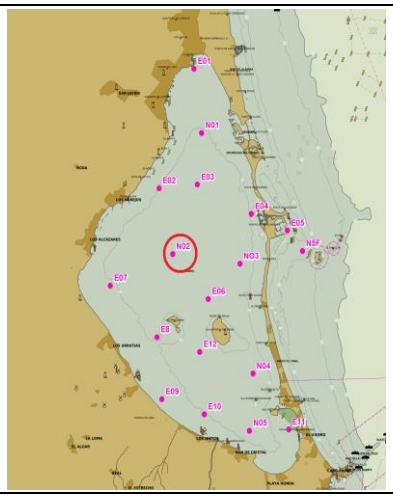
DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
CTD E02 - Punto 004	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0 - 1m	26.63	6.62	2.21	3.81	113.44	0.13	43.4
1 - 2m	26.67	6.63	2.29	3.99	28.72	0.18	43.38
2 - 3m	26.72	6.64	2.29	3.92	16.78	0.27	43.44
3 - 4m	26.73	6.65	2.33	3.97	11.08	0.34	43.46
4 - 5m	26.73	6.65	2.28	4.09	7.44	0.37	43.47
5 - 6m	26.74	6.65	2.29	4.21	5.93	0.38	43.48

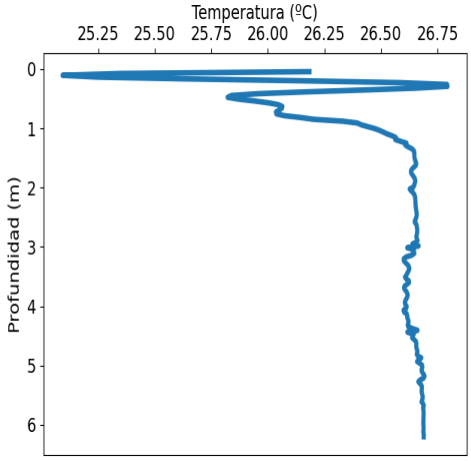
OBSERVACIONES GENERALES
HIPOXIA en la(s) columna(s) de agua 0 - 1m, 1 - 2m, 2 - 3m, 3 - 4m con los valores 3.81, 3.99, 3.92, 3.97 respectivamente.

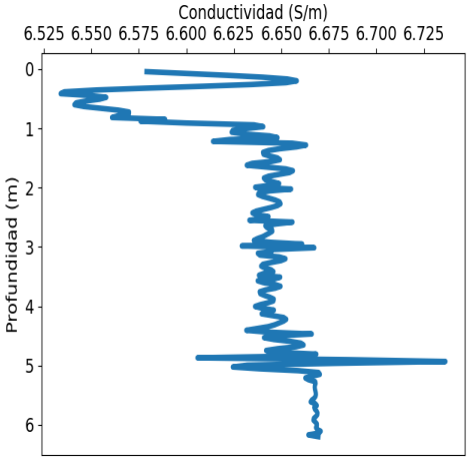
DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
Depth (m)	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0.461	26.62	6.62	2.29	3.86	273.97	0.15	43.41
0.502	26.62	6.62	2.4	3.84	269.5	0.13	43.4
0.553	26.61	6.62	2.21	3.81	257.11	0.14	43.4
0.583	26.6	6.63	2.1	3.75	66.2	0.13	43.46
0.625	26.62	6.63	2.25	3.75	49.13	0.13	43.45
0.702	26.65	6.62	1.91	3.77	42.13	0.13	43.38
0.782	26.66	6.62	1.98	3.79	47.23	0.13	43.35
0.829	26.66	6.62	2.25	3.81	43.2	0.12	43.35
0.861	26.64	6.63	2.37	3.83	42.82	0.13	43.41
0.922	26.63	6.63	2.33	3.85	43.11	0.12	43.45
1.011	26.65	6.62	2.14	3.87	40.59	0.11	43.37
1.092	26.67	6.62	2.4	3.88	36.01	0.14	43.33
1.147	26.66	6.62	2.21	3.89	34.46	0.12	43.36
1.189	26.64	6.63	2.33	3.91	34.25	0.12	43.42
1.238	26.65	6.62	2.29	3.93	35.31	0.1	43.39
1.299	26.66	6.62	2.44	3.95	33.38	0.14	43.35
1.382	26.67	6.63	2.33	3.97	31.13	0.15	43.37
1.466	26.67	6.62	2.33	3.99	28.63	0.14	43.33
1.525	26.67	6.62	2.17	4.0	28.11	0.18	43.31
1.546	26.65	6.62	2.33	4.03	29.16	0.18	43.38
1.57	26.66	6.63	2.21	4.04	27.93	0.2	43.44
1.646	26.67	6.63	2.25	4.05	26.01	0.32	43.41
1.746	26.68	6.62	2.33	4.06	24.19	0.27	43.33
1.835	26.69	6.63	2.25	4.05	23.13	0.2	43.35
1.89	26.68	6.63	2.4	4.05	23.08	0.15	43.39
1.92	26.68	6.63	2.17	4.05	22.74	0.17	43.42
1.942	26.69	6.63	2.14	4.04	22.95	0.27	43.39
1.96	26.69	6.63	2.4	4.02	22.85	0.21	43.37
1.997	26.7	6.64	2.37	4.01	21.7	0.19	43.43
2.075	26.71	6.64	2.48	4.0	20.47	0.39	43.45
2.172	26.71	6.63	2.25	3.99	19.46	0.25	43.38
2.261	26.71	6.63	2.17	3.99	18.8	0.19	43.4

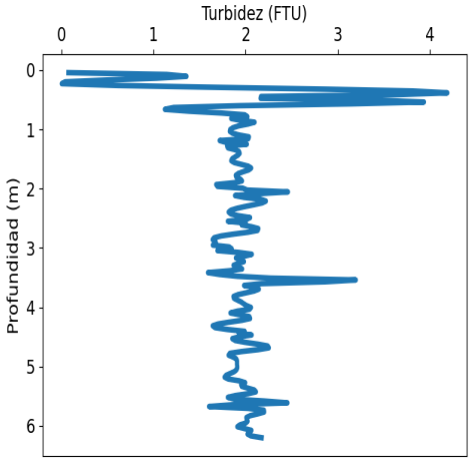
2.32	26.71	6.64	2.21	3.99	18.43	0.21	43.44
2.348	26.72	6.64	2.33	3.98	18.49	0.25	43.43
2.364	26.72	6.64	2.29	3.97	18.27	0.17	43.43
2.395	26.72	6.64	2.29	3.97	17.75	0.3	43.46
2.462	26.72	6.64	2.29	3.94	16.95	0.3	43.45
2.559	26.72	6.64	1.98	3.92	16.18	0.25	43.44
2.653	26.72	6.64	1.98	3.9	15.65	0.3	43.44
2.716	26.72	6.64	2.4	3.87	15.25	0.24	43.45
2.772	26.72	6.64	2.4	3.85	14.92	0.39	43.46
2.814	26.72	6.64	2.25	3.85	14.84	0.26	43.42
2.834	26.72	6.64	2.44	3.85	14.75	0.19	43.44
2.856	26.72	6.64	2.56	3.85	14.44	0.37	43.46
2.913	26.73	6.64	2.33	3.85	13.89	0.33	43.46
3.002	26.73	6.64	2.4	3.86	13.3	0.25	43.44
3.086	26.73	6.64	2.17	3.87	13.07	0.34	43.47
3.133	26.73	6.64	2.44	3.89	13.01	0.32	43.46
3.15	26.73	6.64	2.44	3.91	12.93	0.23	43.46
3.163	26.73	6.65	2.17	3.92	12.71	0.39	43.47
3.209	26.73	6.65	2.21	3.94	12.24	0.39	43.47
3.292	26.73	6.65	2.21	3.95	11.68	0.36	43.46
3.396	26.73	6.65	2.33	3.95	11.23	0.41	43.47
3.483	26.73	6.64	2.33	3.96	10.96	0.32	43.46
3.526	26.73	6.64	2.33	3.97	10.96	0.23	43.46
3.543	26.73	6.65	2.4	3.97	10.8	0.38	43.47
3.58	26.73	6.65	2.48	3.98	10.48	0.51	43.48
3.646	26.73	6.65	2.29	3.99	10.18	0.38	43.47
3.71	26.73	6.65	2.33	4.0	10.01	0.28	43.46
3.754	26.73	6.65	2.37	4.02	9.95	0.23	43.46
3.8	26.73	6.65	2.4	4.04	9.64	0.37	43.47
3.861	26.73	6.65	2.4	4.05	9.34	0.35	43.47
3.929	26.73	6.65	2.29	4.05	9.1	0.31	43.47
3.996	26.73	6.65	2.33	4.05	8.88	0.34	43.47
4.073	26.73	6.65	2.33	4.04	8.65	0.34	43.47
4.128	26.73	6.65	2.48	4.03	8.63	0.33	43.47
4.149	26.73	6.65	2.21	4.03	8.57	0.27	43.46
4.162	26.73	6.65	2.33	4.04	8.41	0.36	43.47
4.216	26.73	6.65	2.37	4.04	8.11	0.41	43.47
4.319	26.73	6.65	2.25	4.06	7.75	0.38	43.47
4.423	26.73	6.65	2.29	4.06	7.59	0.35	43.47
4.49	26.73	6.65	2.02	4.08	7.52	0.36	43.47
4.529	26.73	6.65	2.29	4.1	7.45	0.35	43.47
4.548	26.73	6.65	2.25	4.11	7.38	0.31	43.47
4.58	26.73	6.65	2.48	4.12	7.2	0.38	43.48
4.653	26.73	6.65	2.33	4.12	6.97	0.36	43.48
4.732	26.73	6.65	2.17	4.11	6.86	0.43	43.47
4.79	26.73	6.65	2.21	4.12	6.77	0.41	43.47
4.847	26.73	6.65	2.21	4.13	6.62	0.41	43.48
4.907	26.73	6.65	2.37	4.14	6.52	0.39	43.48
4.958	26.73	6.65	2.21	4.15	6.47	0.38	43.48
4.99	26.73	6.65	2.29	4.16	6.41	0.34	43.48
5.025	26.74	6.65	2.4	4.18	6.29	0.43	43.48
5.085	26.74	6.65	2.4	4.19	6.16	0.44	43.48
5.159	26.74	6.65	2.14	4.2	6.03	0.4	43.48
5.229	26.74	6.65	2.21	4.22	5.95	0.38	43.48
5.284	26.74	6.65	2.21	4.23	5.89	0.37	43.48
5.355	26.74	6.65	2.17	4.23	5.73	0.43	43.48
5.385	26.75	6.65	2.37	4.23	5.7	0.37	43.48
5.399	26.75	6.65	2.4	4.23	5.69	0.24	43.48

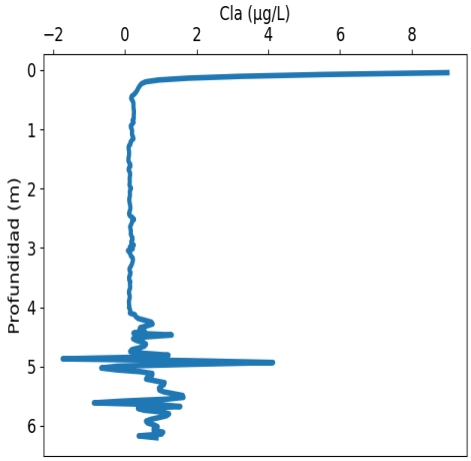
Nombre: CTD N02 - Punto 005 **Fecha: 20/09/2021** **Hora: 07:09:03**

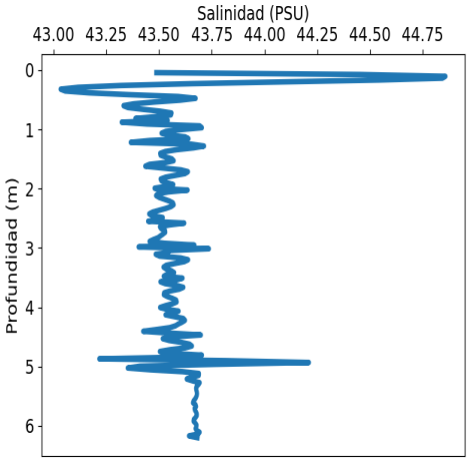


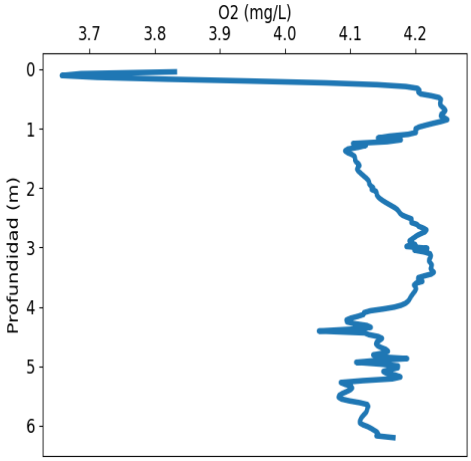


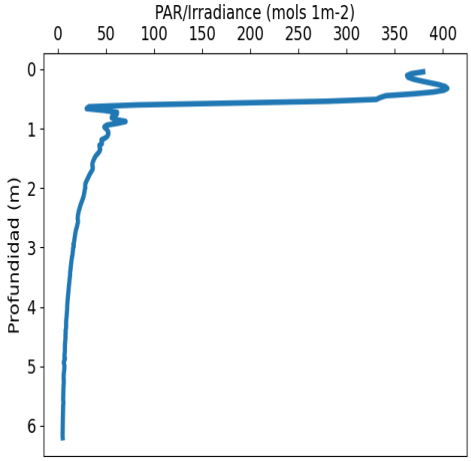












VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE							
	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m^3)	Salinity (PSU)
MÍNIMO	25.83	6.54	0.04	3.83	4.71	0.1	43.33
PROF (metros)	0.451	0.422	0.232	0.043	6.144	1.335	0.608
MÁXIMO	26.69	26.69	3.89	4.25	387.96	9.0	44.21
PROF (metros)	5.641	4.897	0.524	0.708	0.232	0.043	0.191

DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
CTD N02 - Punto 005	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0 - 1m	26.14	6.58	1.74	4.17	198.34	0.95	43.54
1 - 2m	26.61	6.64	1.91	4.13	39.4	0.15	43.53
2 - 3m	26.65	6.64	1.94	4.18	21.1	0.17	43.52
3 - 4m	26.62	6.64	2.05	4.21	12.7	0.14	43.56
4 - 5m	26.64	6.65	1.93	4.14	7.92	0.46	43.59
5 - 6m	26.68	6.67	1.97	4.12	5.45	0.84	43.67
6 - 7m	26.69	6.67	2.06	4.15	4.81	0.84	43.68

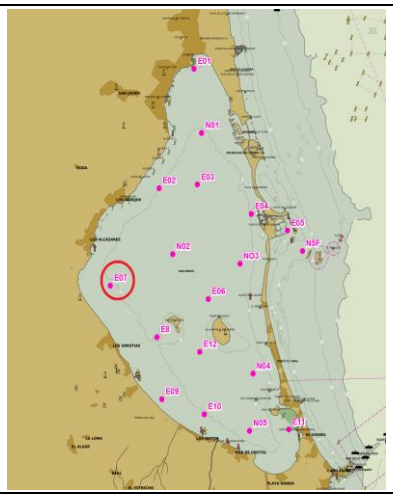
OBSERVACIONES GENERALES

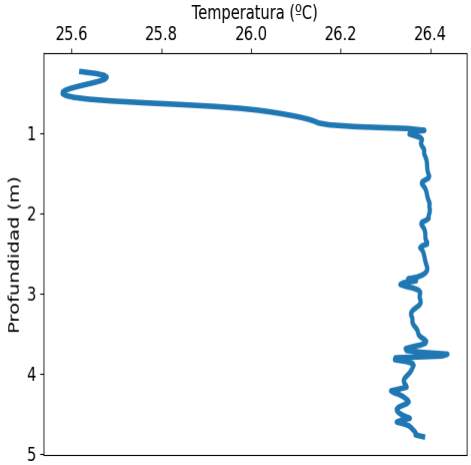
DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
Depth (m)	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0.043	26.18	6.58	0.08	3.83	379.51	9.0	43.49
0.191	26.06	6.66	0.11	3.92	375.66	0.63	44.21
0.232	26.62	6.65	0.04	4.07	387.96	0.46	43.61
0.422	25.92	6.54	3.32	4.21	361.74	0.23	43.42
0.451	25.83	6.55	1.98	4.23	337.05	0.17	43.62
0.524	25.91	6.55	3.89	4.24	311.51	0.22	43.53
0.608	26.05	6.54	1.68	4.24	63.09	0.24	43.33
0.708	26.04	6.57	1.56	4.25	56.74	0.25	43.54
0.785	26.07	6.56	2.02	4.24	56.56	0.24	43.48
0.83	26.17	6.57	1.83	4.25	56.99	0.23	43.42
0.862	26.25	6.59	2.06	4.25	64.91	0.21	43.53
0.878	26.33	6.58	2.1	4.24	70.25	0.24	43.33
0.921	26.4	6.62	1.98	4.22	56.43	0.18	43.57
1.005	26.47	6.63	1.83	4.2	50.06	0.2	43.6
1.1	26.53	6.63	1.95	4.19	52.18	0.2	43.56
1.18	26.57	6.63	1.83	4.16	46.19	0.2	43.53
1.22	26.59	6.62	1.83	4.15	45.83	0.16	43.38
1.224	26.6	6.63	1.98	4.12	47.09	0.17	43.43
1.249	26.61	6.66	2.02	4.1	45.82	0.16	43.65
1.335	26.63	6.65	1.87	4.1	43.82	0.1	43.6
1.445	26.65	6.64	1.91	4.1	39.79	0.11	43.51
1.555	26.65	6.65	1.87	4.11	36.33	0.11	43.54
1.617	26.66	6.63	2.02	4.11	35.57	0.15	43.43
1.659	26.64	6.65	2.06	4.11	36.28	0.1	43.54
1.728	26.63	6.66	1.95	4.11	34.26	0.14	43.64
1.813	26.64	6.64	1.91	4.12	31.6	0.13	43.52
1.901	26.65	6.65	1.87	4.13	29.0	0.13	43.54
1.967	26.65	6.64	1.75	4.13	28.21	0.14	43.51
1.99	26.64	6.63	1.98	4.14	28.38	0.17	43.47
2.006	26.63	6.65	1.83	4.13	28.11	0.16	43.59
2.043	26.63	6.65	2.4	4.14	27.6	0.13	43.58
2.097	26.64	6.64	1.98	4.14	27.1	0.14	43.49
2.172	26.65	6.64	2.14	4.15	25.89	0.12	43.52
2.268	26.65	6.65	2.1	4.16	23.72	0.14	43.57
2.37	26.66	6.64	1.83	4.17	21.84	0.14	43.49

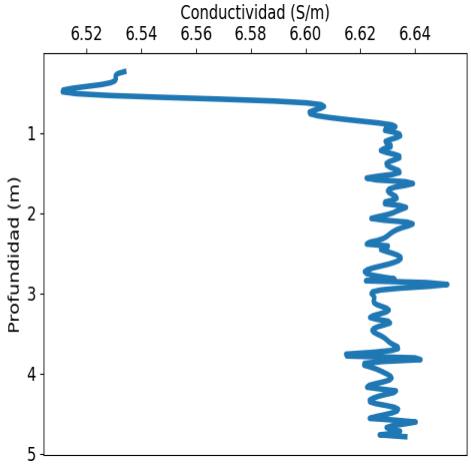
2.462	26.66	6.64	1.95	4.18	20.65	0.15	43.48
2.525	26.65	6.64	1.95	4.2	20.44	0.25	43.48
2.551	26.65	6.64	1.83	4.19	20.74	0.19	43.46
2.559	26.65	6.65	1.98	4.19	20.92	0.19	43.56
2.583	26.65	6.66	1.98	4.2	20.54	0.19	43.61
2.63	26.66	6.64	2.02	4.2	19.9	0.15	43.51
2.701	26.66	6.64	2.14	4.22	18.65	0.16	43.53
2.782	26.66	6.64	1.79	4.21	17.76	0.17	43.51
2.855	26.66	6.64	1.64	4.2	17.08	0.21	43.48
2.921	26.66	6.64	1.68	4.19	16.43	0.18	43.53
2.976	26.66	6.64	1.75	4.19	16.11	0.18	43.51
2.998	26.65	6.64	1.95	4.2	16.26	0.14	43.46
3.0	26.64	6.64	1.95	4.2	16.09	0.17	43.54
3.026	26.63	6.66	1.72	4.21	15.57	0.13	43.63
3.078	26.64	6.64	1.95	4.22	15.22	0.14	43.54
3.119	26.65	6.64	2.06	4.22	15.06	0.15	43.47
3.157	26.62	6.65	1.91	4.22	14.55	0.2	43.57
3.22	26.6	6.65	1.98	4.22	13.96	0.22	43.63
3.297	26.62	6.64	1.87	4.23	13.39	0.17	43.53
3.373	26.63	6.64	1.91	4.22	12.83	0.12	43.55
3.44	26.62	6.64	1.64	4.23	12.54	0.16	43.55
3.473	26.61	6.64	1.95	4.21	12.46	0.12	43.51
3.493	26.61	6.64	1.83	4.21	12.34	0.12	43.57
3.525	26.61	6.65	2.94	4.2	12.03	0.11	43.61
3.563	26.62	6.64	3.01	4.21	11.87	0.15	43.52
3.601	26.62	6.64	2.17	4.2	11.56	0.14	43.53
3.663	26.6	6.65	2.1	4.2	11.21	0.15	43.62
3.737	26.61	6.64	2.06	4.2	10.83	0.11	43.54
3.816	26.62	6.64	1.87	4.19	10.32	0.13	43.54
3.905	26.61	6.65	1.95	4.19	9.83	0.11	43.59
3.98	26.61	6.64	2.02	4.18	9.57	0.12	43.52
4.026	26.61	6.64	2.06	4.16	9.49	0.12	43.52
4.058	26.6	6.65	1.95	4.13	9.34	0.16	43.59
4.088	26.6	6.64	1.83	4.12	9.28	0.11	43.57
4.118	26.61	6.64	1.91	4.12	9.17	0.25	43.53
4.176	26.62	6.65	2.06	4.11	8.77	0.32	43.6
4.277	26.62	6.65	1.72	4.1	8.38	0.78	43.59
4.373	26.64	6.64	1.79	4.11	8.15	0.39	43.49
4.434	26.62	6.64	1.95	4.11	7.97	0.29	43.53
4.44	26.61	6.65	1.91	4.14	8.09	0.22	43.59
4.449	26.62	6.66	1.98	4.14	7.93	0.77	43.67
4.495	26.64	6.65	1.95	4.14	7.75	0.68	43.58
4.579	26.65	6.65	1.95	4.14	7.4	0.45	43.58
4.685	26.66	6.66	2.25	4.15	7.13	0.39	43.62
4.776	26.66	6.65	1.83	4.15	6.93	0.51	43.55
4.843	26.66	6.65	1.87	4.15	6.79	0.34	43.59
4.895	26.67	6.65	1.91	4.16	6.81	0.42	43.59
4.897	26.67	6.67	1.91	4.15	6.7	0.93	43.68
4.969	26.68	6.66	1.91	4.16	6.43	1.21	43.66
5.092	26.68	6.66	1.87	4.15	6.13	0.53	43.63
5.227	26.68	6.66	1.87	4.14	5.9	0.68	43.64
5.255	26.67	6.67	1.98	4.1	6.01	1.01	43.68
5.307	26.67	6.67	1.95	4.09	5.79	1.08	43.69
5.436	26.68	6.67	2.1	4.09	5.55	1.15	43.68
5.567	26.68	6.67	2.02	4.09	5.38	0.61	43.67
5.641	26.69	6.67	1.95	4.13	5.4	0.7	43.67
5.645	26.69	6.67	1.79	4.13	5.34	1.18	43.67
5.689	26.69	6.67	1.83	4.13	5.27	0.79	43.67

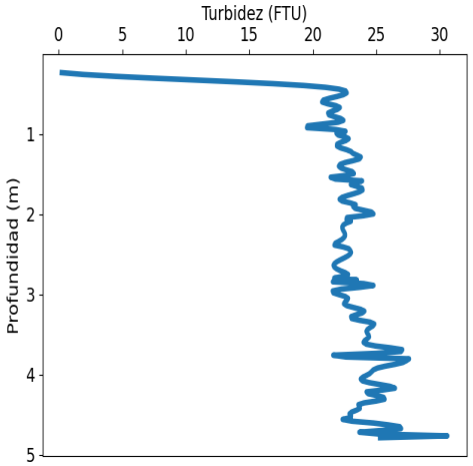
5.755	26.69	6.67	2.21	4.13	5.16	0.88	43.67
5.843	26.69	6.67	2.02	4.12	5.04	1.07	43.68
5.917	26.69	6.67	2.02	4.11	4.97	0.59	43.66
5.963	26.69	6.67	1.98	4.12	4.92	0.68	43.67
6.011	26.69	6.67	1.91	4.13	4.88	0.92	43.68
6.073	26.69	6.67	2.06	4.14	4.79	0.78	43.68
6.144	26.69	6.67	2.02	4.14	4.71	0.92	43.68
6.183	26.69	6.67	2.06	4.14	4.78	0.59	43.66
6.192	26.69	6.67	2.14	4.14	4.8	0.85	43.68
6.195	26.69	6.67	2.29	4.15	4.8	0.83	43.68
6.197	26.69	6.67	2.1	4.15	4.84	0.91	43.68
6.198	26.69	6.67	1.68	4.15	4.83	0.85	43.68
6.199	26.69	6.67	2.17	4.15	4.82	0.88	43.68
6.2	26.69	6.67	2.17	4.17	4.85	0.88	43.68

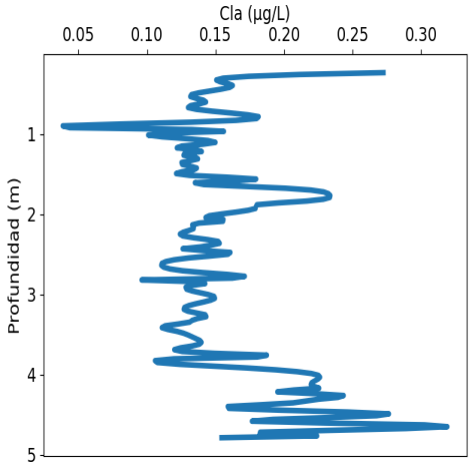
Nombre: CTD E07 - Punto 006 **Fecha: 20/09/2021** **Hora: 08:09:24**

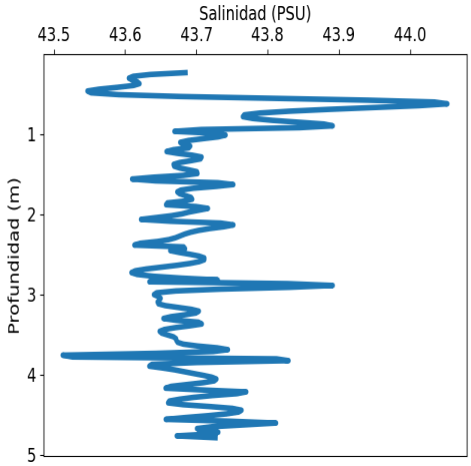


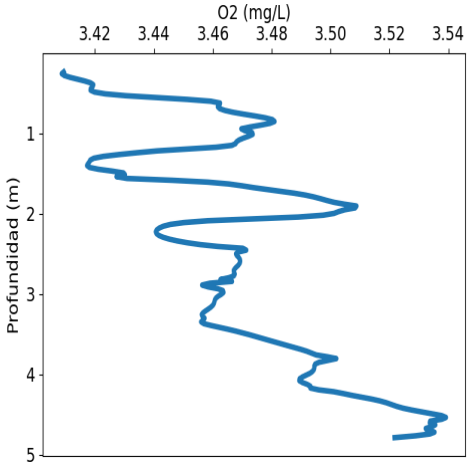


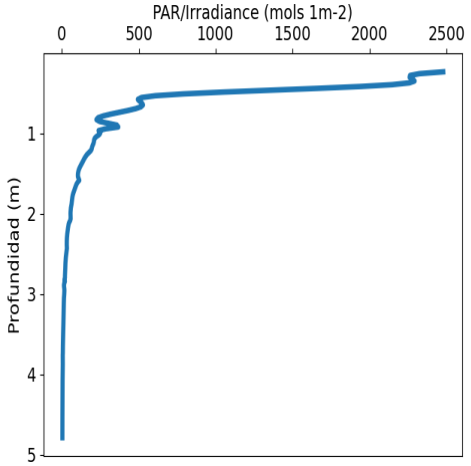












VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE							
	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m^3)	Salinity (PSU)
MÍNIMO	25.58	6.53	0.23	3.41	3.61	0.11	43.61
PROF (metros)	0.531	0.238	0.238	0.238	4.78	0.942	0.284
MÁXIMO	26.4	26.4	28.57	3.54	2480.1	0.3	44.04
PROF (metros)	1.518	1.911	4.773	4.546	0.238	4.623	0.606

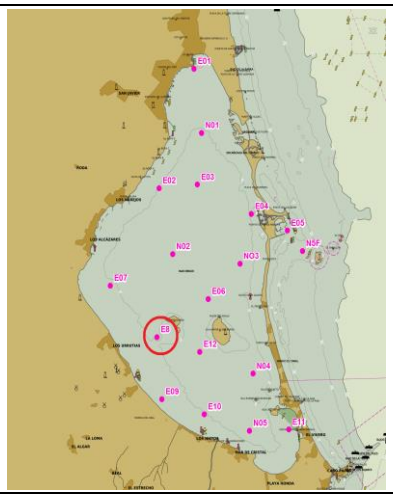
DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
CTD E07 - Punto 006	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0 - 1m	25.94	6.58	17.86	3.45	911.11	0.15	43.76
1 - 2m	26.39	6.63	22.93	3.46	123.9	0.16	43.68
2 - 3m	26.38	6.63	22.55	3.46	32.07	0.14	43.67
3 - 4m	26.36	6.63	24.69	3.48	8.87	0.14	43.67
4 - 5m	26.35	6.63	25.11	3.52	4.25	0.2	43.72

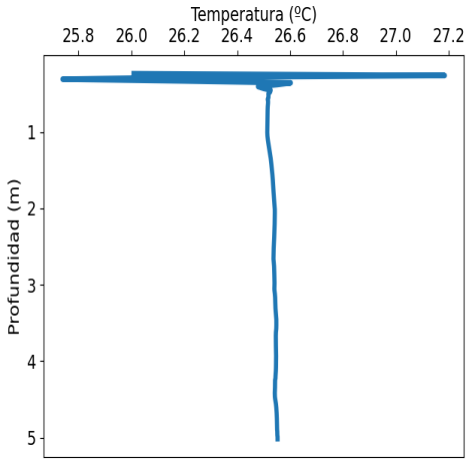
OBSERVACIONES GENERALES
HIPOXIA en la(s) columna(s) de agua 0 - 1m, 1 - 2m, 2 - 3m, 3 - 4m, 4 - 5m con los valores 3.45, 3.46, 3.46, 3.48, 3.52 respectivamente.

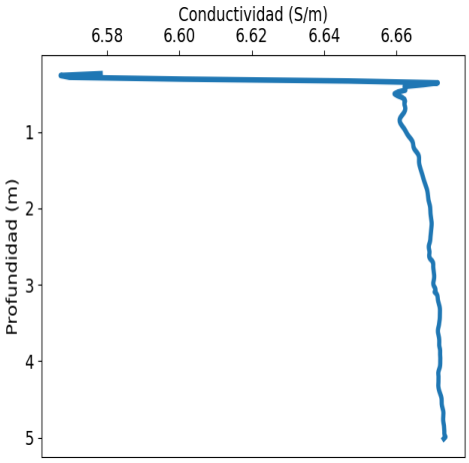
DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
Depth (m)	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0.238	25.62	6.53	0.23	3.41	2480.1	0.27	43.69
0.284	25.67	6.53	4.46	3.41	2263.1	0.17	43.61
0.394	25.63	6.53	18.92	3.42	2173.1	0.16	43.61
0.531	25.58	6.53	22.01	3.43	634.29	0.13	43.66
0.606	25.7	6.59	20.75	3.46	507.05	0.14	44.04
0.664	25.9	6.61	22.09	3.46	522.56	0.13	43.97
0.752	26.06	6.6	21.17	3.47	346.71	0.17	43.78
0.859	26.14	6.62	21.86	3.48	253.8	0.12	43.85
0.942	26.32	6.63	21.17	3.47	307.63	0.11	43.74
0.946	26.35	6.63	21.74	3.47	285.64	0.13	43.71
0.985	26.36	6.63	22.01	3.47	248.27	0.13	43.71
1.05	26.37	6.63	22.77	3.47	219.93	0.12	43.72
1.116	26.38	6.63	22.05	3.47	207.93	0.15	43.68
1.172	26.38	6.63	22.13	3.46	196.82	0.12	43.69
1.213	26.39	6.63	22.93	3.44	190.49	0.14	43.66
1.247	26.39	6.63	23.19	3.43	173.06	0.13	43.68
1.298	26.39	6.63	23.8	3.42	151.96	0.14	43.71
1.365	26.39	6.63	22.39	3.42	133.37	0.12	43.67
1.439	26.39	6.63	22.43	3.42	113.74	0.14	43.68
1.518	26.4	6.63	22.62	3.43	104.54	0.13	43.68
1.564	26.4	6.62	21.82	3.43	109.42	0.18	43.61
1.581	26.39	6.62	23.69	3.44	114.0	0.17	43.63
1.604	26.38	6.63	23.31	3.46	105.93	0.14	43.71
1.669	26.39	6.63	23.77	3.47	88.96	0.19	43.71
1.76	26.39	6.63	22.93	3.49	72.63	0.23	43.68
1.84	26.4	6.63	22.35	3.5	65.99	0.21	43.68
1.884	26.4	6.63	23.38	3.5	63.23	0.18	43.66
1.911	26.4	6.64	23.16	3.51	60.42	0.18	43.71
1.955	26.4	6.63	24.07	3.5	57.75	0.17	43.7
2.012	26.4	6.63	24.41	3.5	56.46	0.15	43.67
2.058	26.4	6.62	22.43	3.48	57.33	0.15	43.63
2.076	26.4	6.62	22.96	3.47	56.52	0.16	43.63
2.101	26.39	6.63	22.81	3.45	50.37	0.15	43.71

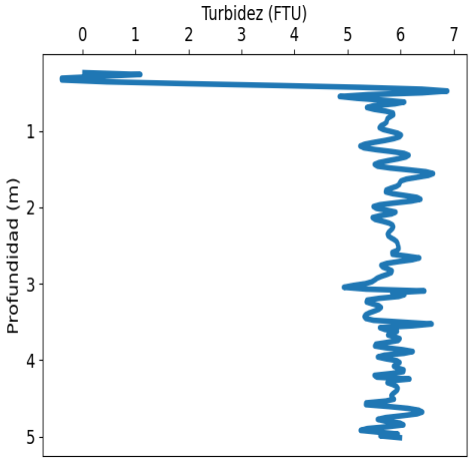
2.168	26.38	6.64	22.32	3.44	41.19	0.13	43.73
2.27	26.39	6.63	22.55	3.44	34.54	0.13	43.68
2.356	26.39	6.62	21.86	3.45	32.23	0.15	43.63
2.399	26.39	6.63	21.97	3.46	32.44	0.14	43.64
2.418	26.38	6.63	22.7	3.46	32.96	0.13	43.71
2.434	26.38	6.63	22.85	3.47	33.01	0.13	43.68
2.466	26.38	6.63	23.0	3.47	30.55	0.15	43.67
2.537	26.39	6.63	22.58	3.47	26.57	0.14	43.71
2.637	26.39	6.63	21.63	3.47	23.2	0.11	43.67
2.722	26.39	6.62	22.43	3.47	21.72	0.14	43.61
2.774	26.38	6.62	22.43	3.47	20.47	0.17	43.64
2.811	26.36	6.63	22.32	3.46	19.13	0.13	43.71
2.839	26.36	6.63	22.66	3.47	18.65	0.11	43.66
2.841	26.36	6.62	22.05	3.47	19.57	0.12	43.65
2.856	26.36	6.63	22.66	3.46	18.41	0.15	43.74
2.934	26.36	6.63	22.28	3.46	16.14	0.13	43.74
3.036	26.38	6.63	22.7	3.46	14.37	0.15	43.65
3.132	26.38	6.63	22.55	3.46	12.76	0.13	43.65
3.214	26.36	6.63	24.07	3.46	11.44	0.13	43.7
3.275	26.36	6.63	23.04	3.46	10.86	0.14	43.67
3.311	26.36	6.62	23.27	3.46	10.76	0.13	43.66
3.348	26.36	6.63	24.57	3.46	10.51	0.13	43.7
3.398	26.36	6.63	24.68	3.46	10.13	0.11	43.69
3.457	26.37	6.62	24.22	3.47	9.31	0.12	43.65
3.536	26.38	6.63	24.41	3.48	8.25	0.13	43.67
3.639	26.38	6.63	24.76	3.49	7.18	0.13	43.7
3.737	26.38	6.62	24.72	3.49	6.65	0.15	43.63
3.788	26.38	6.62	25.29	3.5	6.72	0.15	43.61
3.792	26.36	6.62	27.01	3.5	6.97	0.14	43.67
3.799	26.33	6.64	27.66	3.5	6.86	0.12	43.77
3.845	26.34	6.63	27.16	3.5	6.5	0.11	43.72
3.912	26.36	6.62	25.22	3.49	6.06	0.17	43.65
3.99	26.35	6.63	24.45	3.49	5.52	0.22	43.7
4.083	26.34	6.63	24.0	3.49	5.08	0.22	43.72
4.152	26.35	6.62	26.25	3.49	4.95	0.22	43.66
4.183	26.34	6.62	26.09	3.49	4.96	0.22	43.68
4.203	26.32	6.63	24.68	3.5	4.92	0.19	43.75
4.249	26.33	6.63	24.68	3.51	4.77	0.24	43.74
4.312	26.35	6.62	25.56	3.51	4.63	0.22	43.67
4.361	26.35	6.62	23.77	3.52	4.55	0.2	43.67
4.415	26.33	6.63	23.73	3.52	4.33	0.16	43.74
4.487	26.33	6.63	22.89	3.53	4.17	0.28	43.74
4.546	26.35	6.62	22.74	3.54	4.11	0.21	43.67
4.571	26.35	6.63	22.39	3.54	4.15	0.18	43.69
4.584	26.33	6.64	23.42	3.53	4.11	0.18	43.77
4.623	26.34	6.64	25.79	3.54	4.02	0.3	43.77
4.687	26.36	6.63	26.21	3.53	3.9	0.25	43.7
4.744	26.37	6.63	26.09	3.53	3.83	0.19	43.71
4.773	26.36	6.63	28.57	3.54	3.74	0.17	43.72
4.777	26.37	6.64	26.7	3.54	3.72	0.15	43.75
4.78	26.37	6.64	26.55	3.54	3.61	0.19	43.73
4.784	26.38	6.63	26.82	3.54	3.69	0.17	43.7
4.786	26.38	6.64	25.29	3.52	3.83	0.15	43.73

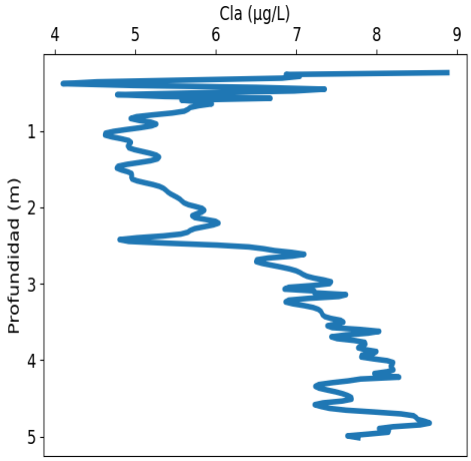
Nombre: CTD E08 - Punto 007 **Fecha: 20/09/2021** **Hora: 08:09:42**

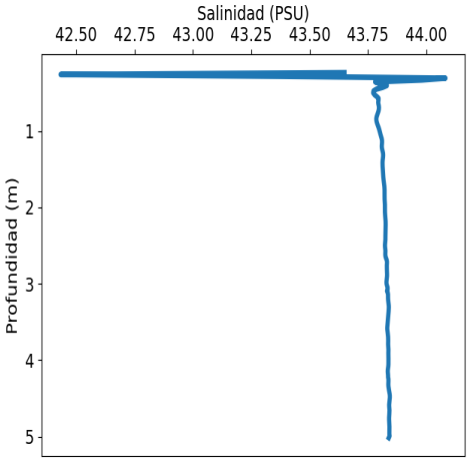


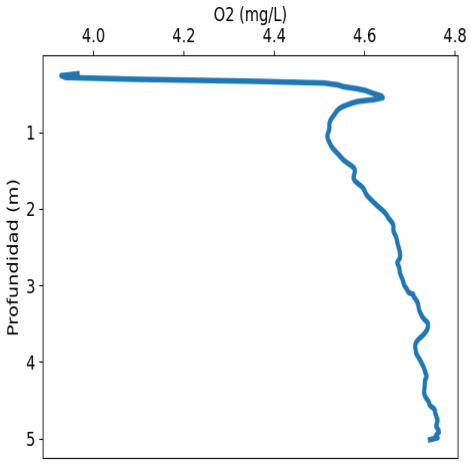


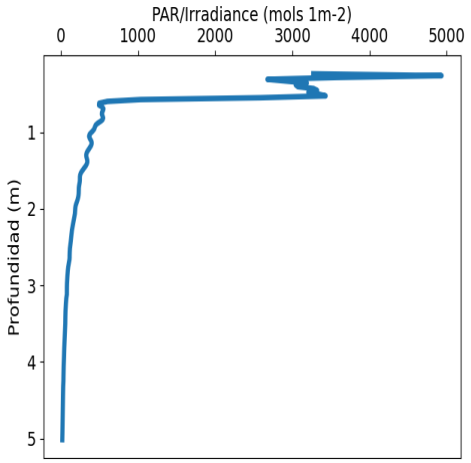












VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE							
	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m^3)	Salinity (PSU)
MÍNIMO	25.9	6.57	0.04	3.96	18.91	4.19	43.62
PROF (metros)	0.295	0.292	0.239	0.239	5.014	0.389	0.292
MÁXIMO	26.55	26.55	6.79	4.76	3340.5	8.88	43.84
PROF (metros)	3.391	0.35	0.49	4.648	0.446	0.239	3.138

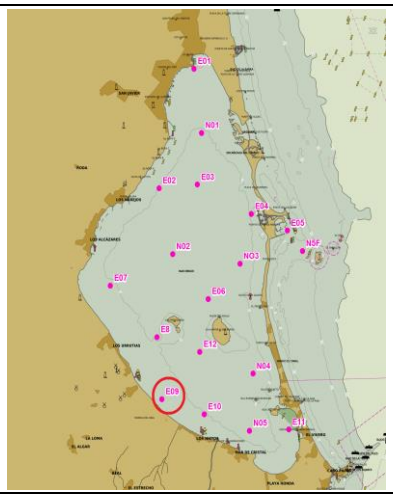
DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
CTD E08 - Punto 007	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0 - 1m	26.41	6.65	4.1	4.45	1863.63	5.98	43.77
1 - 2m	26.53	6.67	5.9	4.57	289.62	5.12	43.82
2 - 3m	26.54	6.67	5.83	4.67	129.21	6.23	43.83
3 - 4m	26.55	6.67	5.78	4.72	58.83	7.5	43.84
4 - 5m	26.55	6.67	5.83	4.75	28.32	7.9	43.84
5 - 6m	26.55	6.67	5.89	4.75	19.1	7.75	43.84

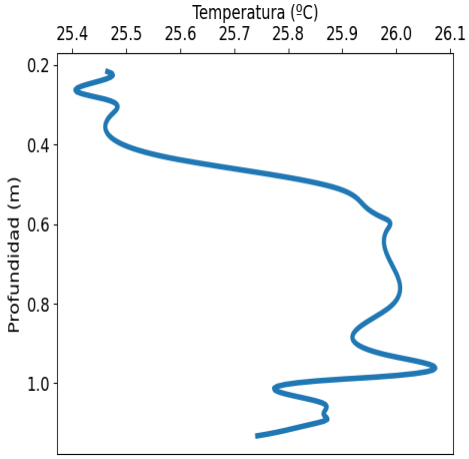
OBSERVACIONES GENERALES
CLOROFILA elevada en la(s) columna(s) de agua 0 - 1m, 1 - 2m, 2 - 3m, 3 - 4m, 4 - 5m, 5 - 6m con los valores 5.98, 5.12, 6.23, 7.5, 7.9, 7.75 respectivamente

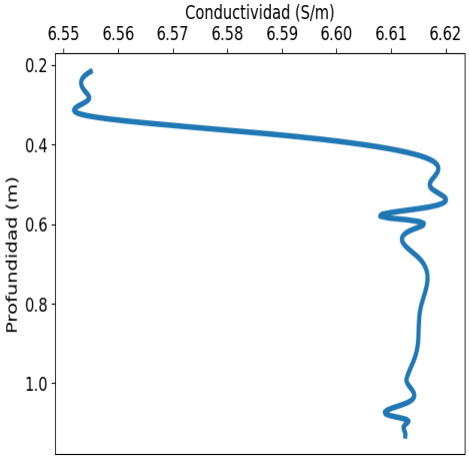
DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
Depth (m)	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0.239	26.01	6.58	0.04	3.96	3270.8	8.88	43.65
0.292	26.0	6.57	0.15	3.96	3249.6	7.1	43.62
0.295	25.9	6.58	0.04	3.97	3087.4	7.11	43.74
0.35	26.52	6.67	0.04	4.47	3158.3	4.92	43.83
0.389	26.52	6.67	2.4	4.54	3018.0	4.19	43.81
0.446	26.52	6.66	6.03	4.6	3340.5	7.19	43.8
0.49	26.52	6.66	6.79	4.62	3219.6	6.49	43.77
0.545	26.52	6.66	4.88	4.64	2933.2	5.0	43.79
0.579	26.52	6.66	5.26	4.62	872.15	6.61	43.8
0.591	26.52	6.66	5.49	4.6	666.7	5.86	43.8
0.622	26.52	6.66	6.07	4.57	498.89	5.82	43.79
0.674	26.52	6.66	5.46	4.55	538.67	5.77	43.8
0.753	26.52	6.66	5.8	4.54	529.88	5.56	43.79
0.834	26.51	6.66	5.76	4.53	544.07	4.94	43.79
0.898	26.51	6.66	5.72	4.52	460.55	5.25	43.79
0.965	26.51	6.66	5.61	4.52	429.72	5.02	43.8
1.043	26.51	6.66	5.99	4.52	366.63	4.61	43.8
1.129	26.52	6.66	5.68	4.52	399.09	4.93	43.81
1.215	26.52	6.66	5.26	4.53	367.4	4.91	43.81
1.301	26.52	6.67	6.1	4.54	328.56	5.21	43.81
1.386	26.53	6.67	5.8	4.56	344.15	5.22	43.81
1.469	26.53	6.67	5.61	4.58	302.82	4.77	43.81
1.552	26.53	6.67	6.6	4.58	252.39	4.95	43.81
1.632	26.53	6.67	6.1	4.58	246.49	4.96	43.82
1.717	26.54	6.67	5.95	4.6	234.18	5.27	43.82
1.81	26.54	6.67	5.76	4.6	230.52	5.42	43.82
1.897	26.54	6.67	6.37	4.62	212.51	5.56	43.82
1.967	26.54	6.67	5.61	4.63	190.75	5.66	43.82
2.019	26.54	6.67	5.57	4.64	185.99	5.84	43.82
2.068	26.54	6.67	5.91	4.65	181.94	5.82	43.82
2.127	26.54	6.67	5.49	4.65	171.22	5.72	43.82
2.194	26.54	6.67	5.72	4.66	159.02	6.03	43.83
2.286	26.54	6.67	5.84	4.66	143.4	5.72	43.83
2.369	26.54	6.67	5.76	4.67	134.92	5.42	43.82

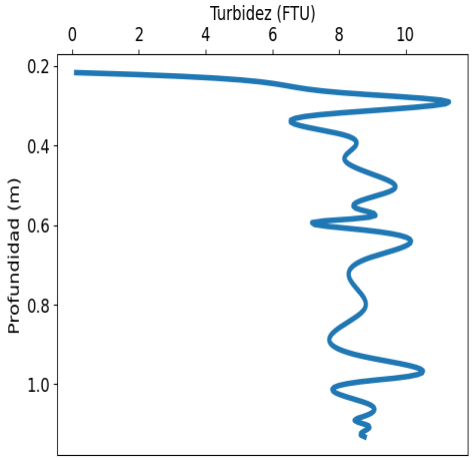
2.44	26.54	6.67	5.91	4.67	126.97	4.84	43.82
2.503	26.54	6.67	5.95	4.68	119.24	6.18	43.82
2.572	26.54	6.67	5.91	4.68	114.82	6.77	43.83
2.624	26.54	6.67	5.91	4.68	113.55	7.09	43.82
2.657	26.54	6.67	6.33	4.68	112.66	6.72	43.83
2.694	26.54	6.67	6.14	4.67	106.44	6.5	43.83
2.752	26.54	6.67	5.65	4.68	96.86	6.66	43.83
2.832	26.54	6.67	5.84	4.68	88.53	7.0	43.83
2.923	26.54	6.67	5.57	4.68	82.62	7.2	43.83
3.016	26.54	6.67	5.19	4.69	78.79	7.3	43.83
3.076	26.54	6.67	5.57	4.7	79.08	6.91	43.83
3.101	26.54	6.67	6.45	4.7	79.3	7.25	43.83
3.112	26.54	6.67	5.99	4.71	78.77	7.18	43.83
3.138	26.54	6.67	6.03	4.71	74.87	7.57	43.84
3.199	26.54	6.67	5.49	4.72	68.61	7.05	43.84
3.293	26.54	6.67	5.61	4.72	62.63	7.13	43.84
3.391	26.55	6.67	5.38	4.73	59.18	7.32	43.84
3.454	26.55	6.67	5.34	4.73	58.47	7.43	43.84
3.492	26.55	6.67	5.72	4.74	57.83	7.59	43.84
3.531	26.55	6.67	6.6	4.74	56.23	7.48	43.83
3.575	26.55	6.67	5.61	4.74	54.07	7.45	43.83
3.617	26.55	6.67	5.91	4.73	51.96	8.01	43.83
3.658	26.55	6.67	5.76	4.73	49.98	7.76	43.84
3.7	26.55	6.67	5.91	4.72	48.31	7.43	43.84
3.75	26.55	6.67	5.91	4.71	46.65	7.78	43.84
3.8	26.55	6.67	5.49	4.71	44.99	7.84	43.84
3.851	26.55	6.67	5.88	4.71	43.79	7.79	43.84
3.896	26.55	6.67	6.22	4.72	42.51	8.01	43.84
3.943	26.55	6.67	5.61	4.72	40.6	7.79	43.84
4.011	26.55	6.67	5.95	4.73	38.11	8.15	43.84
4.086	26.55	6.67	5.88	4.73	36.19	8.17	43.84
4.148	26.55	6.67	6.07	4.74	34.89	8.15	43.84
4.197	26.55	6.67	5.53	4.74	34.07	8.03	43.84
4.226	26.54	6.67	5.65	4.74	34.13	8.24	43.84
4.239	26.54	6.67	6.14	4.73	33.91	7.92	43.84
4.257	26.54	6.67	5.99	4.73	33.02	7.74	43.84
4.316	26.54	6.67	5.84	4.73	30.56	7.3	43.84
4.408	26.54	6.67	5.91	4.73	28.56	7.46	43.84
4.486	26.54	6.67	5.84	4.74	27.56	7.68	43.84
4.532	26.55	6.67	5.76	4.74	27.15	7.6	43.84
4.572	26.55	6.67	5.26	4.75	26.45	7.24	43.84
4.608	26.55	6.67	5.8	4.75	25.91	7.31	43.84
4.648	26.55	6.67	6.29	4.76	25.09	7.54	43.84
4.705	26.55	6.67	6.29	4.76	23.7	8.32	43.84
4.779	26.55	6.67	5.57	4.76	22.77	8.52	43.84
4.845	26.55	6.67	6.07	4.76	22.02	8.56	43.84
4.889	26.55	6.67	5.46	4.76	21.55	8.03	43.84
4.93	26.55	6.67	5.34	4.76	20.72	8.19	43.84
4.973	26.55	6.67	5.91	4.76	19.97	7.83	43.84
5.0	26.55	6.67	5.76	4.76	19.42	7.52	43.84
5.007	26.55	6.67	5.95	4.75	19.03	7.7	43.84
5.014	26.55	6.67	5.88	4.75	18.91	8.03	43.84
5.015	26.55	6.67	5.99	4.75	19.02	7.77	43.84

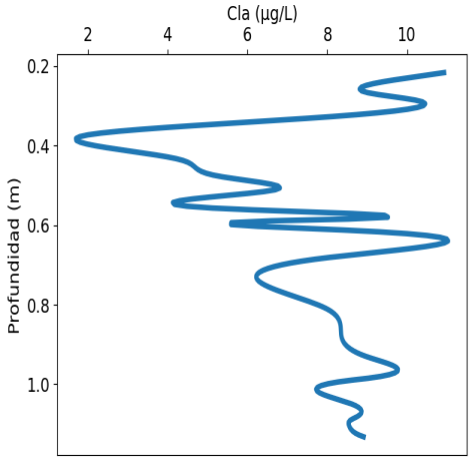
Nombre: CTD E09 - Punto 008 **Fecha: 20/09/2021** **Hora: 08:09:48**

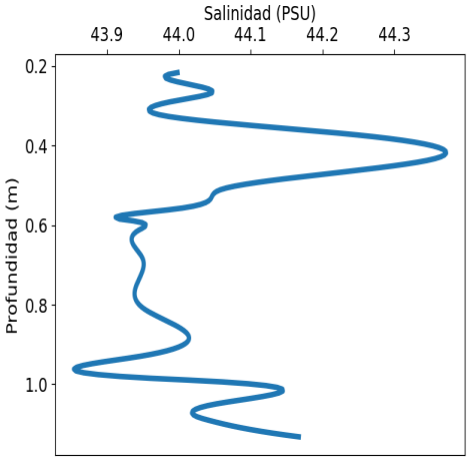


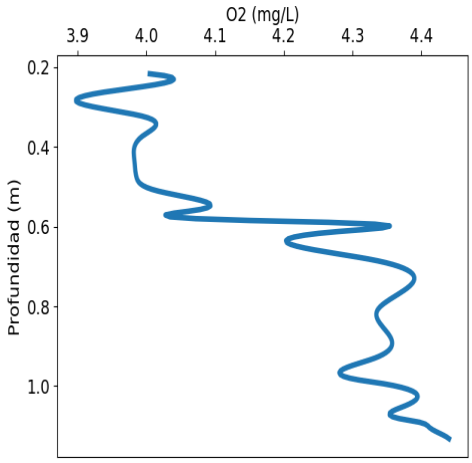


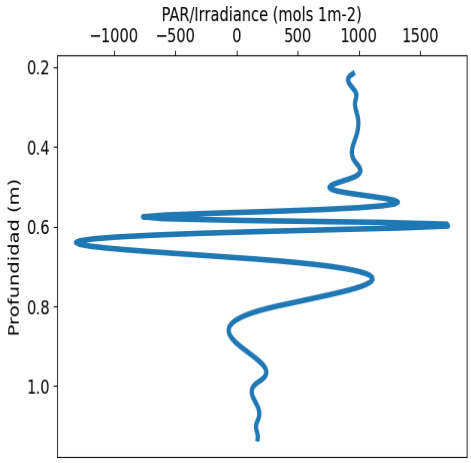


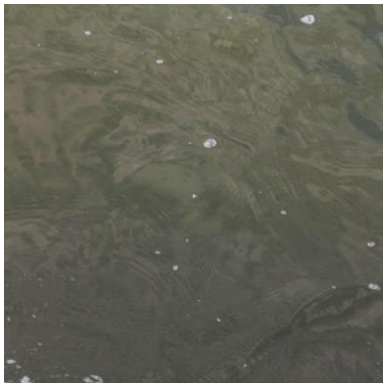












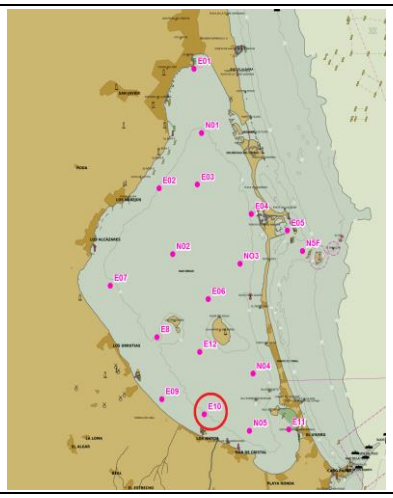
VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE							
	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m^3)	Salinity (PSU)
MÍNIMO	25.41	6.55	0.11	3.9	158.8	2.03	43.92
PROF (metros)	0.267	0.217	0.217	0.288	1.104	0.373	0.586
MÁXIMO	25.99	25.99	11.22	4.44	988.44	10.93	44.35
PROF (metros)	0.81	0.435	0.288	1.132	0.324	0.217	0.435

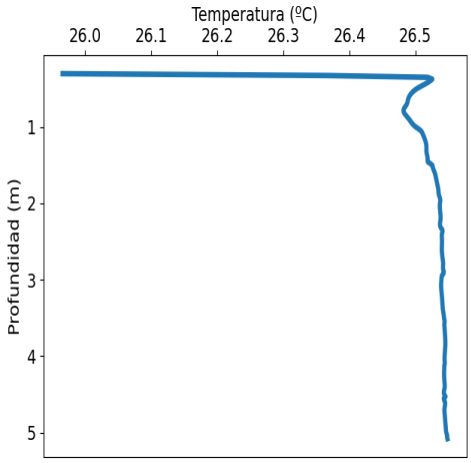
DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
CTD E09 - Punto 008	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0 - 1m	25.76	6.6	8.1	4.12	631.59	7.67	44.03
1 - 2m	25.83	6.61	8.74	4.4	169.85	8.69	44.08

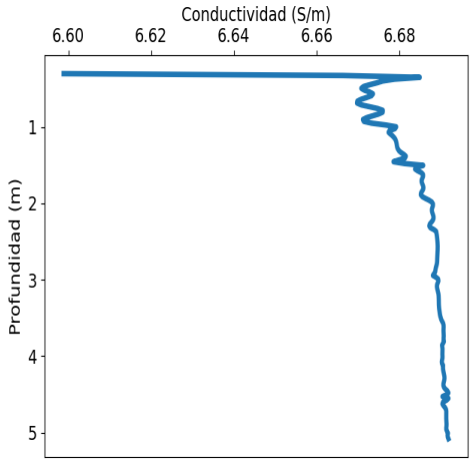
OBSERVACIONES GENERALES
CLOROFILA elevada en la(s) columna(s) de agua 0 - 1m, 1 - 2m con los valores 7.67, 8.69 respectivamente

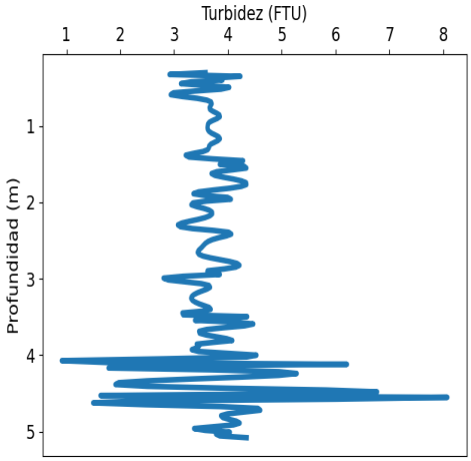
DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
Depth (m)	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0.217	25.46	6.55	0.11	4.0	949.59	10.93	44.0
0.243	25.44	6.55	5.91	4.02	923.54	9.24	44.01
0.267	25.41	6.55	8.01	3.92	977.27	8.99	44.05
0.288	25.46	6.55	11.21	3.9	967.81	10.3	43.99
0.324	25.47	6.55	7.29	4.0	988.44	8.57	43.98
0.373	25.47	6.59	8.12	3.99	976.82	2.03	44.25
0.435	25.59	6.62	8.16	3.98	962.22	4.29	44.35
0.477	25.77	6.62	9.15	3.99	950.69	5.27	44.18
0.51	25.89	6.62	9.65	4.01	806.81	6.75	44.06
0.56	25.95	6.62	8.58	4.07	477.18	5.68	43.99
0.586	25.98	6.61	8.16	4.18	340.58	8.08	43.92
0.588	25.98	6.61	7.78	4.23	852.37	7.16	43.93
0.612	25.98	6.61	8.7	4.28	249.08	8.3	43.95
0.683	25.98	6.61	8.89	4.33	221.1	7.92	43.95
0.81	25.99	6.62	8.77	4.34	194.19	7.98	43.95
0.931	25.99	6.61	8.77	4.33	159.72	9.0	43.94
0.986	25.94	6.61	9.54	4.31	195.68	8.93	43.97
0.99	25.9	6.61	9.04	4.33	175.48	8.58	44.02
1.051	25.87	6.61	8.93	4.37	171.5	8.65	44.05
1.082	25.87	6.61	8.7	4.37	177.86	8.74	44.03
1.09	25.87	6.61	8.47	4.4	166.6	8.58	44.04
1.104	25.84	6.61	8.89	4.41	158.8	8.55	44.07
1.123	25.78	6.61	8.66	4.43	172.42	8.71	44.13
1.132	25.74	6.61	8.77	4.44	171.9	8.91	44.17

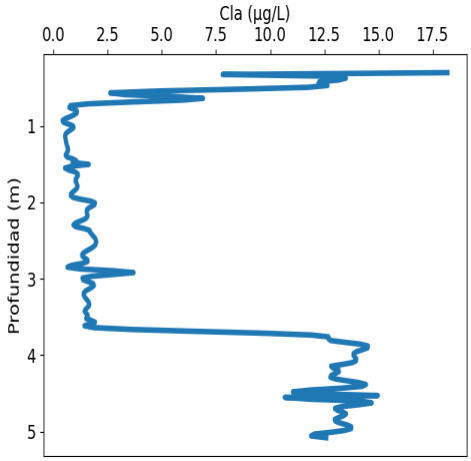
Nombre: CTD E10 - Punto 009 **Fecha: 20/09/2021** **Hora: 08:09:23**

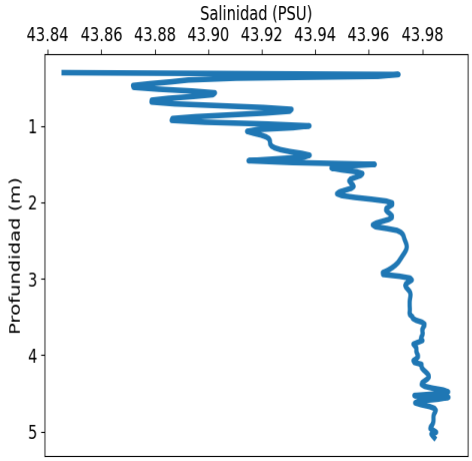


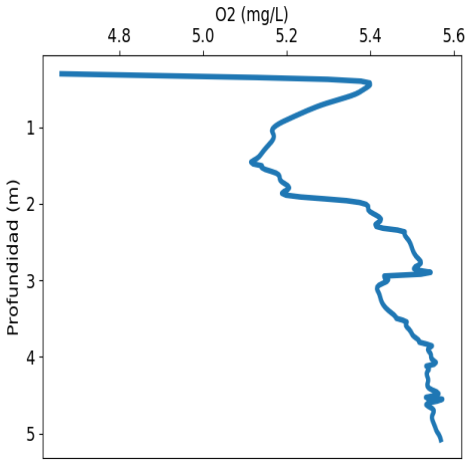


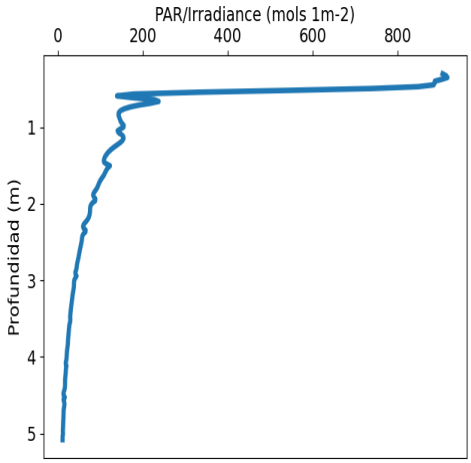


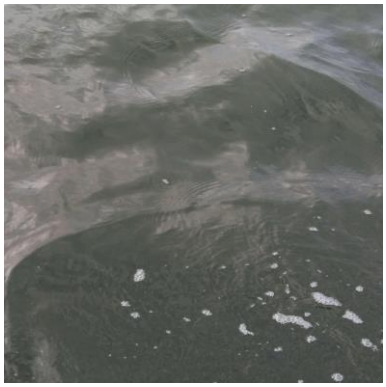












VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE							
	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m^3)	Salinity (PSU)
MÍNIMO	25.95	6.6	2.98	4.66	10.44	0.45	43.85
PROF (metros)	0.311	0.305	0.57	0.305	5.079	0.95	0.305
MÁXIMO	26.55	26.55	6.22	5.57	922.04	18.17	43.99
PROF (metros)	3.794	0.336	4.119	5.064	0.336	0.305	5.01

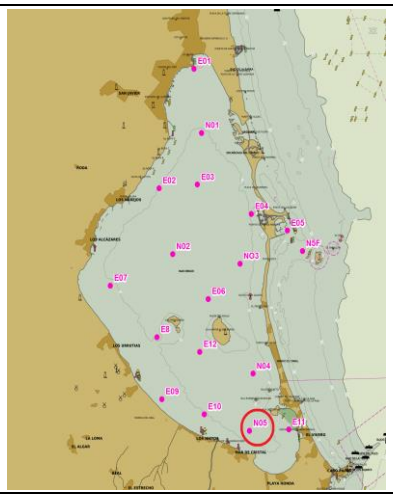
DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
CTD E10 - Punto 009	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0 - 1m	26.43	6.67	3.63	5.18	602.73	8.87	43.9
1 - 2m	26.52	6.68	3.86	5.18	115.77	0.92	43.94
2 - 3m	26.54	6.69	3.63	5.47	53.87	1.83	43.97
3 - 4m	26.54	6.69	3.7	5.48	27.3	6.05	43.98
4 - 5m	26.54	6.69	3.9	5.55	15.31	13.39	43.98
5 - 6m	26.55	6.69	4.04	5.57	10.74	12.35	43.98

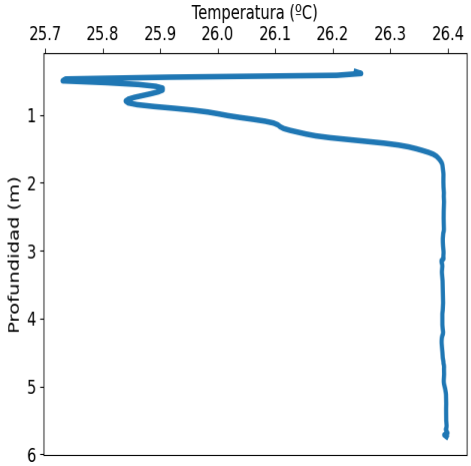
OBSERVACIONES GENERALES
CLOROFILA elevada en la(s) columna(s) de agua 0 - 1m, 3 - 4m, 4 - 5m, 5 - 6m con los valores 8.87, 6.05, 13.39, 12.35 respectivamente

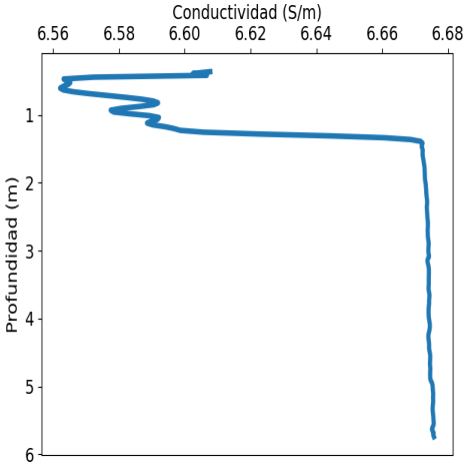
DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
Depth (m)	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0.305	25.97	6.6	3.59	4.66	906.57	18.17	43.85
0.311	25.95	6.6	3.4	4.66	899.04	16.86	43.89
0.336	26.51	6.69	3.09	5.0	922.04	6.73	43.98
0.352	26.52	6.69	4.2	5.12	918.84	12.8	43.96
0.366	26.52	6.68	4.12	5.22	908.89	13.65	43.94
0.378	26.53	6.68	3.7	5.3	903.85	13.49	43.91
0.393	26.52	6.68	3.89	5.36	892.19	13.37	43.89
0.434	26.52	6.67	3.13	5.4	888.48	12.09	43.88
0.494	26.5	6.67	4.0	5.39	757.87	11.98	43.87
0.57	26.49	6.67	2.98	5.36	173.9	2.59	43.9
0.641	26.49	6.67	3.43	5.32	226.34	6.91	43.88
0.704	26.49	6.67	3.7	5.29	199.99	2.19	43.88
0.782	26.48	6.68	3.66	5.25	148.2	0.94	43.93
0.878	26.49	6.67	3.85	5.21	144.34	0.8	43.9
0.95	26.49	6.67	3.66	5.18	150.35	0.45	43.9
1.001	26.5	6.68	3.62	5.17	154.09	0.91	43.94
1.047	26.51	6.68	3.62	5.16	140.31	0.84	43.92
1.098	26.51	6.68	3.7	5.17	149.51	0.59	43.92
1.166	26.51	6.68	3.85	5.17	152.84	0.57	43.92
1.251	26.52	6.68	3.66	5.15	134.24	0.62	43.92
1.341	26.52	6.68	3.51	5.14	116.19	0.66	43.93
1.422	26.52	6.68	3.47	5.13	108.13	0.76	43.93
1.47	26.52	6.68	4.39	5.11	109.83	0.85	43.92
1.478	26.52	6.68	4.27	5.12	112.24	0.77	43.93
1.486	26.52	6.68	3.97	5.13	117.49	1.3	43.94
1.524	26.53	6.68	4.23	5.14	118.83	0.97	43.95
1.598	26.53	6.69	3.81	5.17	110.75	0.96	43.95
1.699	26.53	6.69	4.12	5.19	99.25	1.03	43.95
1.812	26.53	6.69	4.08	5.2	89.87	1.1	43.95
1.905	26.54	6.69	3.47	5.22	83.47	0.8	43.95
1.958	26.54	6.69	4.08	5.34	87.79	1.2	43.96
1.979	26.54	6.69	3.7	5.37	83.2	1.64	43.97
2.079	26.54	6.69	3.55	5.39	75.32	1.61	43.97
2.22	26.54	6.69	3.47	5.42	67.58	1.46	43.97

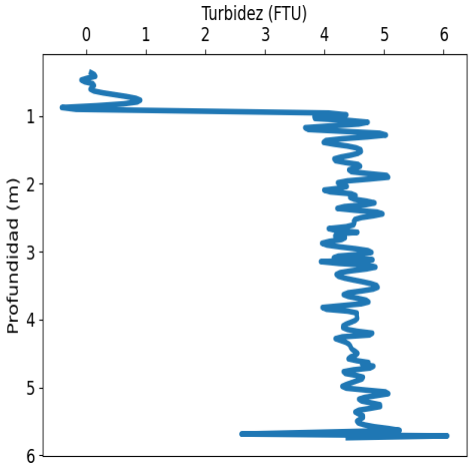
2.332	26.54	6.69	3.2	5.45	62.0	1.2	43.96
2.353	26.54	6.69	3.47	5.48	65.89	1.58	43.97
2.376	26.54	6.69	3.85	5.48	62.55	1.68	43.97
2.466	26.54	6.69	3.81	5.49	56.03	1.91	43.97
2.592	26.54	6.69	3.51	5.5	51.58	1.81	43.97
2.706	26.54	6.69	3.55	5.51	47.8	1.34	43.97
2.797	26.54	6.69	4.16	5.52	44.34	1.38	43.97
2.872	26.54	6.69	3.93	5.52	42.02	1.25	43.97
2.923	26.54	6.69	3.66	5.51	41.37	3.68	43.97
2.937	26.54	6.69	3.89	5.45	43.18	3.12	43.96
2.968	26.54	6.69	3.17	5.43	40.64	1.77	43.97
3.057	26.54	6.69	3.43	5.42	37.43	1.8	43.97
3.162	26.54	6.69	3.51	5.42	34.88	1.48	43.98
3.264	26.54	6.69	3.32	5.43	32.53	1.52	43.98
3.359	26.54	6.69	3.59	5.44	30.27	1.63	43.98
3.431	26.54	6.69	3.43	5.45	28.97	1.45	43.98
3.482	26.54	6.69	3.55	5.46	28.32	1.6	43.98
3.51	26.54	6.69	4.54	5.47	28.61	1.54	43.98
3.521	26.54	6.69	3.78	5.48	28.67	1.52	43.98
3.567	26.54	6.69	4.12	5.48	27.09	1.93	43.98
3.652	26.54	6.69	3.74	5.49	25.25	2.59	43.98
3.734	26.54	6.69	3.59	5.5	23.8	11.78	43.98
3.794	26.55	6.69	4.04	5.52	23.16	12.67	43.98
3.821	26.55	6.69	3.97	5.52	23.01	13.08	43.98
3.838	26.55	6.69	3.59	5.54	22.74	13.67	43.98
3.883	26.54	6.69	3.47	5.54	21.61	14.52	43.98
3.957	26.54	6.69	3.55	5.54	20.49	13.94	43.98
4.037	26.54	6.69	3.66	5.55	19.31	13.94	43.98
4.105	26.54	6.69	3.55	5.54	18.67	13.66	43.98
4.119	26.54	6.69	6.22	5.53	19.57	13.36	43.98
4.132	26.54	6.69	3.85	5.54	19.12	12.98	43.98
4.19	26.54	6.69	3.59	5.54	18.06	13.14	43.98
4.302	26.54	6.69	3.66	5.54	16.3	12.88	43.98
4.423	26.54	6.69	3.36	5.54	15.06	13.7	43.98
4.514	26.54	6.69	3.62	5.54	14.38	13.36	43.98
4.536	26.54	6.69	3.55	5.54	15.03	13.76	43.98
4.537	26.54	6.69	4.04	5.55	14.79	13.43	43.98
4.586	26.54	6.69	3.97	5.55	14.07	13.13	43.98
4.672	26.54	6.69	3.89	5.55	13.37	13.28	43.98
4.762	26.54	6.69	4.04	5.55	12.68	13.49	43.98
4.849	26.55	6.69	4.08	5.55	11.91	12.95	43.98
4.922	26.55	6.69	3.97	5.55	11.5	13.64	43.98
4.973	26.55	6.69	3.4	5.56	11.14	13.6	43.98
5.01	26.55	6.69	4.04	5.56	11.35	12.72	43.99
5.031	26.55	6.69	3.78	5.56	10.55	12.04	43.98
5.064	26.55	6.69	4.0	5.57	10.63	12.04	43.98
5.079	26.55	6.69	4.35	5.57	10.44	12.58	43.98

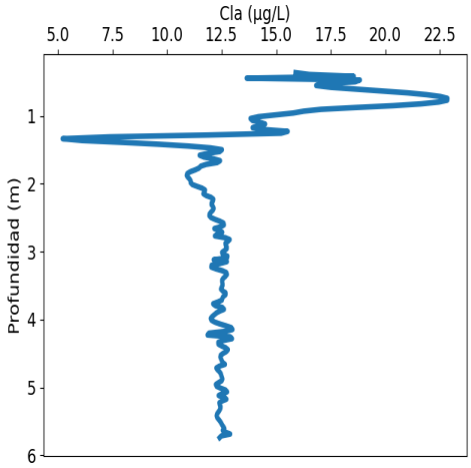
Nombre: CTD N05 - Punto 010 **Fecha: 20/09/2021** **Hora: 08:09:35**

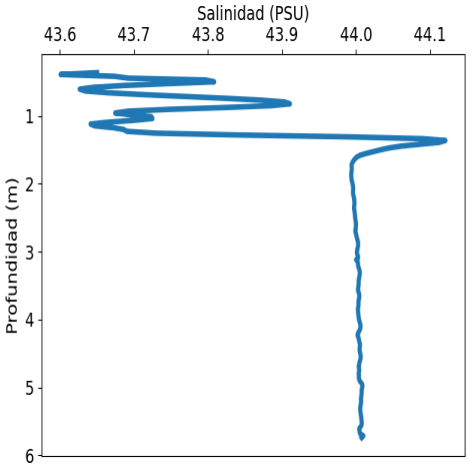


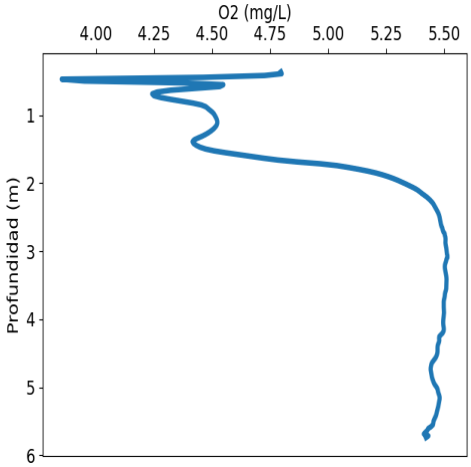


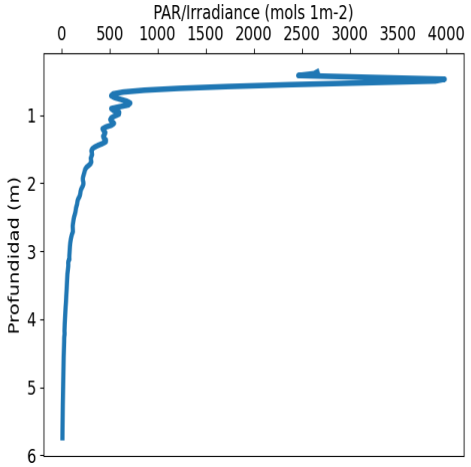












VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE							
	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m^3)	Salinity (PSU)
MÍNIMO	25.78	6.56	0.04	4.26	10.06	5.79	43.59
PROF (metros)	0.515	0.454	0.446	0.515	5.741	1.321	0.381
MÁXIMO	26.4	26.4	5.11	5.51	3359.9	19.98	44.12
PROF (metros)	5.073	4.962	1.892	2.796	0.515	0.854	1.374

DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
CTD N05 - Punto 010	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0 - 1m	25.96	6.58	0.42	4.49	2186.7	16.75	43.7
1 - 2m	26.27	6.65	4.4	4.72	369.06	11.75	43.92
2 - 3m	26.39	6.67	4.4	5.46	144.41	12.19	44.0
3 - 4m	26.39	6.67	4.5	5.5	57.58	12.41	44.0
4 - 5m	26.39	6.67	4.52	5.46	24.36	12.47	44.0
5 - 6m	26.4	6.68	4.75	5.45	12.64	12.5	44.01

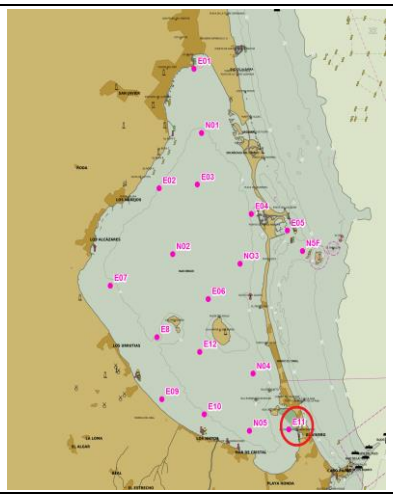
OBSERVACIONES GENERALES
CLOROFILA elevada en la(s) columna(s) de agua 0 - 1m, 1 - 2m, 2 - 3m, 3 - 4m, 4 - 5m, 5 - 6m con los valores 16.75, 11.75, 12.19, 12.41, 12.47, 12.5 respectivamente

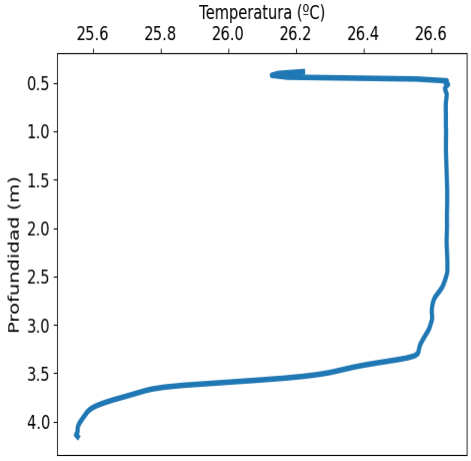
DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
Depth (m)	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0.361	26.24	6.61	0.08	4.8	2661.1	15.88	43.65
0.381	26.24	6.6	0.11	4.8	2697.8	15.8	43.59
0.431	26.06	6.59	0.08	4.58	2803.6	16.23	43.7
0.446	25.89	6.57	0.04	4.45	3195.1	14.21	43.69
0.45	25.87	6.57	0.08	4.44	3141.5	15.85	43.69
0.454	25.84	6.56	0.04	4.28	3344.4	16.91	43.71
0.515	25.78	6.57	0.08	4.26	3359.9	17.48	43.76
0.615	25.91	6.56	0.08	4.38	1060.6	19.19	43.63
0.854	25.87	6.59	0.04	4.46	680.12	19.98	43.87
0.906	25.93	6.58	0.04	4.48	512.13	16.86	43.74
0.953	25.98	6.58	3.93	4.5	597.47	15.84	43.67
1.017	26.02	6.59	3.74	4.51	544.07	14.04	43.73
1.077	26.07	6.59	4.62	4.52	511.54	14.05	43.68
1.128	26.1	6.59	4.42	4.52	545.08	14.47	43.64
1.189	26.11	6.6	3.62	4.51	432.91	14.09	43.68
1.259	26.14	6.61	5.0	4.48	458.21	14.77	43.75
1.321	26.18	6.65	4.5	4.45	430.81	5.79	44.05
1.374	26.24	6.67	3.97	4.42	467.98	6.97	44.12
1.438	26.31	6.67	4.35	4.43	388.23	10.75	44.07
1.514	26.35	6.67	4.62	4.49	311.43	12.53	44.03
1.573	26.37	6.67	4.46	4.6	319.18	11.51	44.01
1.633	26.38	6.67	4.16	4.73	304.3	12.16	44.0
1.681	26.39	6.67	4.31	4.85	310.71	12.36	44.0
1.716	26.39	6.67	4.58	4.98	300.37	11.74	43.99
1.767	26.39	6.67	4.5	5.09	259.27	11.46	43.99
1.828	26.39	6.67	4.5	5.18	240.01	11.01	43.99
1.892	26.39	6.67	5.11	5.25	227.55	10.92	43.99
1.952	26.39	6.67	4.42	5.3	222.34	11.08	43.99
2.002	26.39	6.67	4.23	5.33	229.14	11.12	44.0
2.053	26.39	6.67	4.35	5.36	216.54	11.52	44.0
2.101	26.39	6.67	3.97	5.39	201.15	11.75	44.0
2.152	26.39	6.67	4.5	5.41	195.32	11.67	44.0
2.201	26.39	6.67	4.42	5.42	185.09	12.03	44.0
2.243	26.39	6.67	4.62	5.44	169.88	12.12	44.0

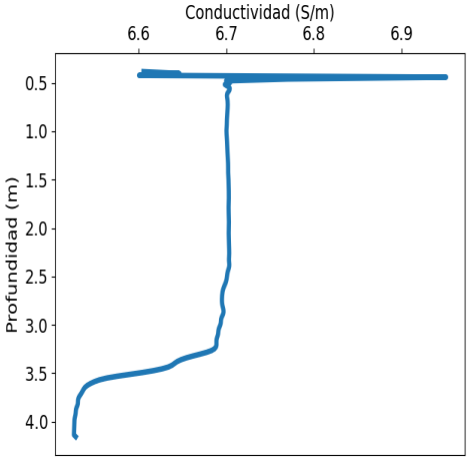
2.295	26.39	6.67	4.81	5.45	163.81	12.02	44.0
2.355	26.39	6.67	4.2	5.46	152.45	12.13	44.0
2.42	26.39	6.67	4.92	5.47	145.18	12.0	44.0
2.497	26.39	6.67	4.62	5.48	130.8	12.01	44.0
2.58	26.39	6.67	4.5	5.48	121.03	12.59	44.0
2.645	26.39	6.67	4.23	5.49	116.54	12.32	44.0
2.683	26.39	6.67	4.12	5.49	117.62	12.28	44.0
2.706	26.39	6.67	4.62	5.49	117.65	12.71	44.0
2.714	26.39	6.67	4.54	5.5	118.89	12.52	44.0
2.72	26.39	6.67	4.46	5.5	117.27	12.62	44.0
2.745	26.39	6.67	4.16	5.5	110.26	12.21	44.0
2.796	26.39	6.67	4.35	5.51	100.71	12.7	44.0
2.868	26.39	6.67	3.97	5.51	92.17	12.69	44.0
2.954	26.39	6.67	4.5	5.51	86.62	12.74	44.0
3.041	26.39	6.67	4.58	5.51	83.18	12.56	44.0
3.104	26.39	6.67	4.42	5.51	82.35	12.49	44.0
3.123	26.39	6.67	4.73	5.51	81.1	12.18	44.0
3.129	26.39	6.67	4.42	5.51	77.84	12.4	44.0
3.186	26.39	6.67	4.54	5.5	70.72	12.19	44.0
3.293	26.39	6.67	4.35	5.51	64.46	12.64	44.01
3.406	26.39	6.67	4.42	5.51	59.27	12.53	44.0
3.502	26.39	6.67	4.88	5.51	55.68	12.54	44.0
3.565	26.39	6.67	4.73	5.51	53.71	12.49	44.0
3.614	26.39	6.67	4.35	5.5	51.36	12.7	44.0
3.671	26.39	6.67	4.46	5.5	49.35	12.54	44.0
3.725	26.39	6.67	4.73	5.5	47.71	12.46	44.0
3.779	26.39	6.67	4.5	5.5	44.86	12.09	44.0
3.834	26.39	6.67	3.93	5.5	42.46	12.62	44.0
3.879	26.39	6.67	4.42	5.5	40.59	12.38	44.0
3.925	26.39	6.67	4.54	5.5	38.4	12.18	44.0
3.997	26.39	6.67	4.54	5.5	35.74	12.0	44.0
4.092	26.39	6.67	4.31	5.5	33.19	12.7	44.01
4.18	26.39	6.67	4.62	5.5	31.57	12.51	44.0
4.226	26.39	6.67	4.77	5.49	32.19	11.82	44.0
4.245	26.39	6.67	4.42	5.48	30.2	12.62	44.0
4.309	26.39	6.67	4.27	5.48	28.37	12.56	44.0
4.378	26.39	6.67	4.42	5.47	26.82	12.43	44.01
4.44	26.39	6.67	4.46	5.47	25.25	12.78	44.0
4.517	26.39	6.67	4.54	5.47	23.34	12.48	44.01
4.596	26.39	6.67	4.46	5.46	22.55	12.49	44.01
4.646	26.39	6.67	4.73	5.45	22.38	12.59	44.0
4.668	26.39	6.67	4.62	5.44	22.41	12.63	44.0
4.685	26.39	6.67	4.81	5.44	21.75	12.41	44.0
4.731	26.39	6.67	4.58	5.44	20.64	12.28	44.0
4.784	26.39	6.67	4.31	5.44	19.94	12.44	44.0
4.838	26.39	6.67	4.62	5.45	18.82	12.49	44.0
4.903	26.39	6.67	4.54	5.45	17.73	12.49	44.01
4.962	26.39	6.68	4.35	5.46	17.03	12.22	44.01
5.014	26.39	6.68	4.39	5.47	16.54	12.48	44.01
5.073	26.4	6.68	5.07	5.47	15.73	12.72	44.01
5.119	26.4	6.68	4.88	5.48	15.31	12.36	44.01
5.157	26.4	6.68	4.62	5.48	14.96	12.72	44.01
5.207	26.4	6.68	4.65	5.48	14.35	12.46	44.01
5.272	26.4	6.68	4.96	5.48	13.61	12.44	44.01
5.343	26.4	6.68	4.54	5.47	12.88	12.39	44.01
5.423	26.4	6.68	4.65	5.46	12.07	12.27	44.01
5.504	26.4	6.68	4.54	5.45	11.31	12.44	44.01
5.575	26.4	6.68	4.81	5.45	11.03	12.57	44.01

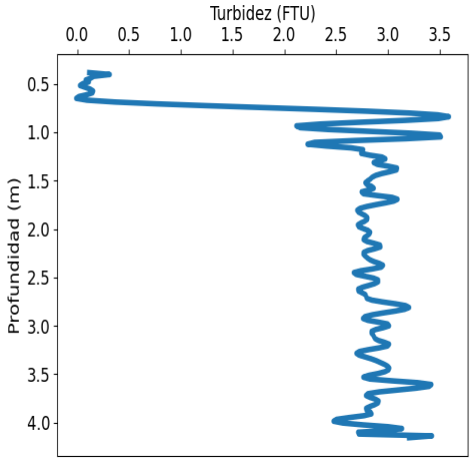
5.609	26.4	6.68	5.11	5.43	11.06	12.62	44.0
5.646	26.4	6.68	4.88	5.43	10.43	12.56	44.01
5.708	26.4	6.68	4.69	5.42	10.21	12.66	44.01
5.74	26.4	6.68	5.0	5.43	10.07	12.35	44.01
5.741	26.4	6.68	4.39	5.42	10.06	12.4	44.01

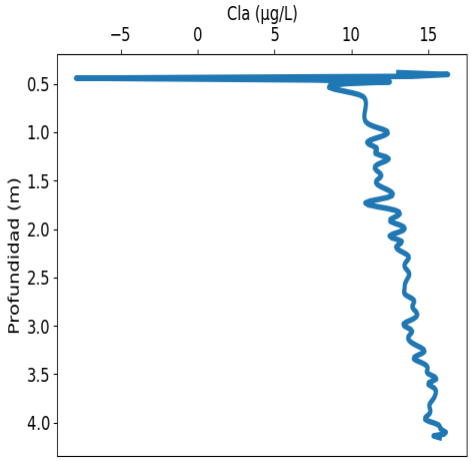
Nombre: CTD E11 - Punto 011 **Fecha: 20/09/2021** **Hora: 09:09:01**

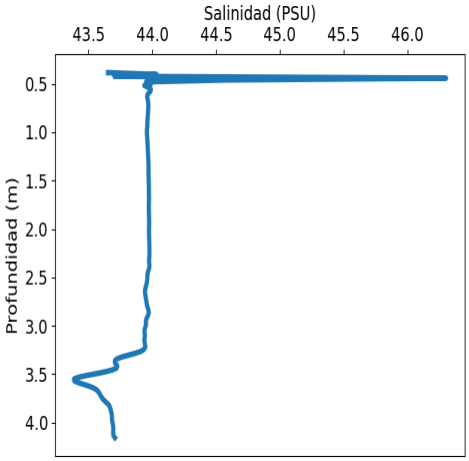


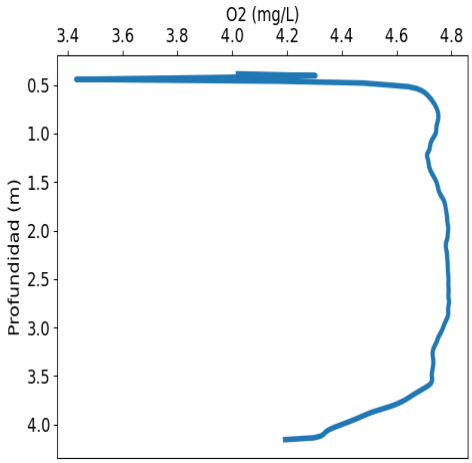


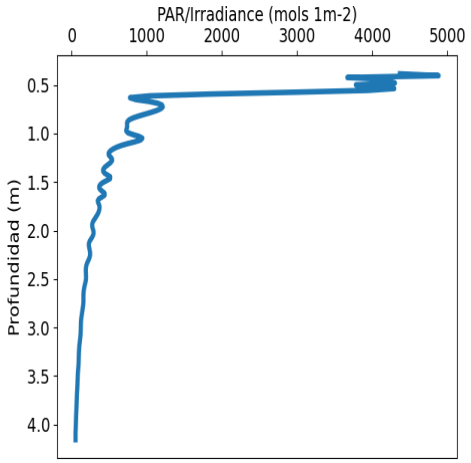


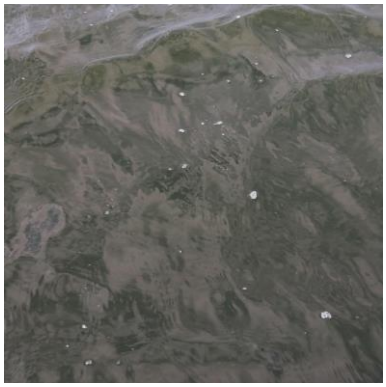












VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE							
	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m^3)	Salinity (PSU)
MÍNIMO	25.55	6.53	0.04	3.59	49.99	6.54	43.39
PROF (metros)	4.075	3.767	0.424	0.426	4.128	0.426	3.55
MÁXIMO	26.65	26.65	3.51	4.79	4514.1	16.02	44.17
PROF (metros)	0.501	0.467	0.856	1.915	0.395	4.155	0.426

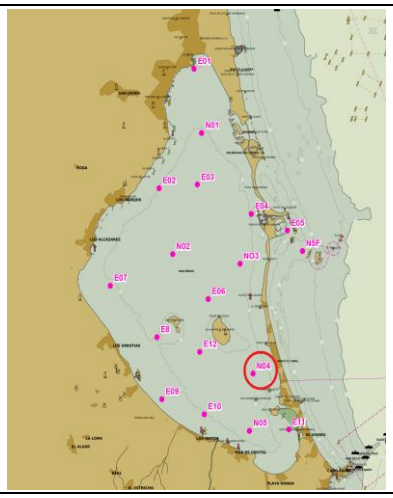
DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
CTD E11 - Punto 011	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0 - 1m	26.46	6.67	0.68	4.37	2869.0	11.2	43.9
1 - 2m	26.65	6.7	2.85	4.75	458.16	12.02	43.97
2 - 3m	26.63	6.7	2.85	4.79	190.41	13.51	43.96
3 - 4m	26.13	6.6	2.9	4.67	82.15	14.75	43.7
4 - 5m	25.55	6.53	3.07	4.28	50.96	15.8	43.7

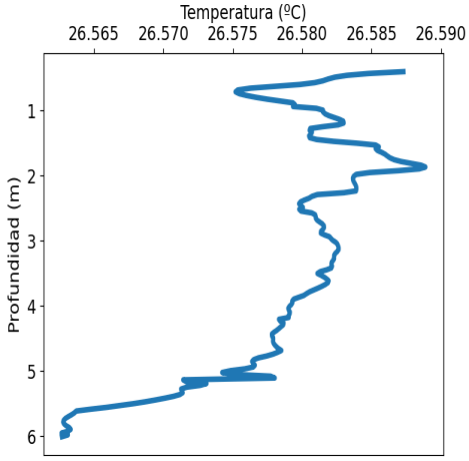
OBSERVACIONES GENERALES
CLOROFILA elevada en la(s) columna(s) de agua 0 - 1m, 1 - 2m, 2 - 3m, 3 - 4m, 4 - 5m con los valores 11.2, 12.02, 13.51, 14.75, 15.8 respectivamente

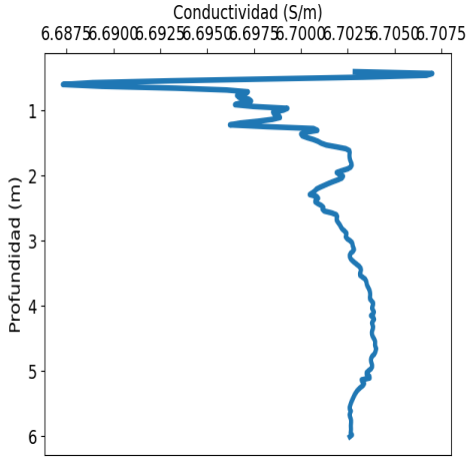
DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
Depth (m)	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0.384	26.22	6.61	0.11	4.02	4366.9	13.05	43.65
0.395	26.15	6.61	0.11	4.04	4514.1	13.5	43.73
0.422	26.13	6.6	0.15	3.93	3648.9	13.82	43.69
0.424	26.11	6.59	0.04	3.73	3291.3	11.25	43.62
0.426	26.09	6.66	0.04	3.59	3380.2	6.54	44.17
0.467	26.64	6.7	0.08	4.39	4217.7	12.65	43.97
0.48	26.64	6.7	0.11	4.48	4293.6	12.24	43.97
0.501	26.65	6.7	0.04	4.58	3712.9	9.35	43.97
0.536	26.64	6.7	0.08	4.67	4293.6	8.55	43.97
0.606	26.65	6.7	0.11	4.71	1211.8	10.38	43.96
0.662	26.64	6.7	0.04	4.73	970.5	10.9	43.96
0.856	26.64	6.7	3.51	4.75	769.19	10.85	43.96
0.938	26.64	6.7	2.1	4.74	736.57	11.42	43.96
0.996	26.64	6.7	2.94	4.74	758.75	12.36	43.96
1.048	26.64	6.7	3.51	4.73	940.17	11.85	43.96
1.108	26.64	6.7	2.25	4.72	723.71	11.02	43.96
1.168	26.64	6.7	2.71	4.72	532.09	11.67	43.96
1.221	26.64	6.7	2.75	4.71	492.46	11.58	43.97
1.265	26.64	6.7	2.98	4.71	538.17	12.39	43.97
1.319	26.64	6.7	2.86	4.72	484.53	11.87	43.97
1.37	26.65	6.7	3.09	4.72	418.03	11.51	43.97
1.418	26.65	6.7	2.98	4.73	453.88	11.82	43.97
1.456	26.65	6.7	2.86	4.74	518.22	11.93	43.97
1.49	26.65	6.7	2.82	4.74	450.31	11.69	43.97
1.533	26.65	6.7	2.79	4.75	372.97	11.63	43.97
1.582	26.65	6.7	2.86	4.75	384.12	12.18	43.97
1.631	26.65	6.7	2.75	4.76	440.81	12.68	43.97
1.675	26.65	6.7	3.05	4.77	359.23	12.32	43.97
1.73	26.65	6.7	2.98	4.78	361.57	10.9	43.97
1.799	26.65	6.7	2.71	4.78	361.99	12.67	43.97
1.864	26.65	6.7	2.79	4.78	319.11	12.99	43.97
1.915	26.65	6.7	2.79	4.79	279.48	12.49	43.98
1.965	26.65	6.7	2.71	4.79	274.16	13.25	43.97
2.023	26.65	6.7	2.82	4.79	291.12	13.24	43.97
2.079	26.65	6.7	2.79	4.79	263.38	12.49	43.97

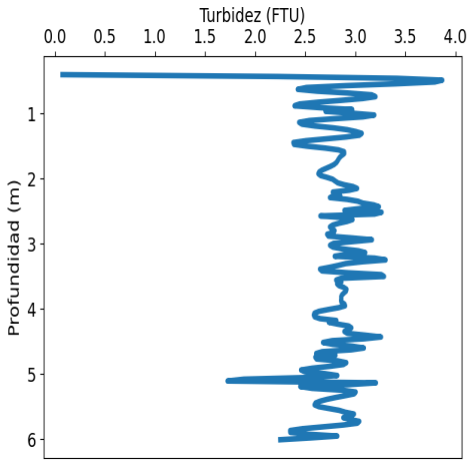
2.124	26.65	6.7	2.79	4.78	230.84	13.25	43.98
2.176	26.65	6.7	2.94	4.78	231.97	12.93	43.98
2.23	26.65	6.7	2.79	4.78	244.16	13.22	43.98
2.283	26.65	6.7	2.79	4.78	234.67	13.72	43.98
2.335	26.65	6.7	2.86	4.79	204.82	13.57	43.97
2.394	26.65	6.7	2.94	4.79	187.86	13.47	43.98
2.451	26.65	6.7	2.67	4.79	188.99	13.74	43.96
2.507	26.64	6.7	2.86	4.79	188.51	13.67	43.96
2.569	26.64	6.7	2.86	4.79	171.15	13.48	43.95
2.628	26.63	6.7	2.71	4.79	158.58	13.45	43.94
2.679	26.62	6.7	2.79	4.79	154.84	13.5	43.95
2.729	26.61	6.7	2.82	4.79	155.7	14.03	43.95
2.804	26.6	6.7	3.2	4.79	145.78	13.95	43.96
2.877	26.6	6.7	2.9	4.79	131.77	14.28	43.97
2.938	26.6	6.69	2.79	4.78	122.55	13.91	43.95
2.988	26.6	6.69	3.01	4.77	120.77	13.37	43.95
3.046	26.59	6.69	2.86	4.76	118.75	13.92	43.94
3.1	26.58	6.69	2.86	4.75	114.11	13.75	43.94
3.148	26.58	6.69	2.9	4.75	105.58	13.73	43.94
3.201	26.57	6.69	3.01	4.74	99.57	14.2	43.94
3.272	26.56	6.68	2.71	4.73	94.49	14.72	43.9
3.336	26.54	6.66	2.82	4.73	93.36	14.04	43.73
3.384	26.46	6.64	2.94	4.73	90.27	14.59	43.71
3.435	26.37	6.63	3.01	4.73	83.99	14.96	43.72
3.495	26.3	6.6	2.9	4.73	80.15	14.98	43.56
3.55	26.17	6.56	2.82	4.73	78.48	15.52	43.39
3.595	25.99	6.55	3.36	4.72	76.27	14.98	43.44
3.634	25.84	6.54	3.36	4.7	72.87	15.3	43.52
3.698	25.74	6.54	2.82	4.66	68.32	15.48	43.58
3.767	25.67	6.53	2.9	4.62	65.27	15.28	43.62
3.821	25.62	6.53	2.86	4.57	63.1	15.06	43.66
3.864	25.6	6.53	2.79	4.52	60.16	15.12	43.67
3.919	25.58	6.53	2.82	4.47	57.82	15.02	43.68
3.974	25.57	6.53	2.48	4.42	56.06	14.84	43.68
4.02	25.56	6.53	2.71	4.38	54.35	15.62	43.69
4.075	25.55	6.53	3.09	4.34	50.54	15.86	43.69
4.128	25.55	6.53	2.98	4.32	49.99	15.76	43.69
4.152	25.55	6.53	3.32	4.24	50.15	15.78	43.7
4.155	25.55	6.53	3.13	4.21	50.41	16.02	43.7
4.157	25.55	6.53	3.2	4.19	50.35	15.75	43.71

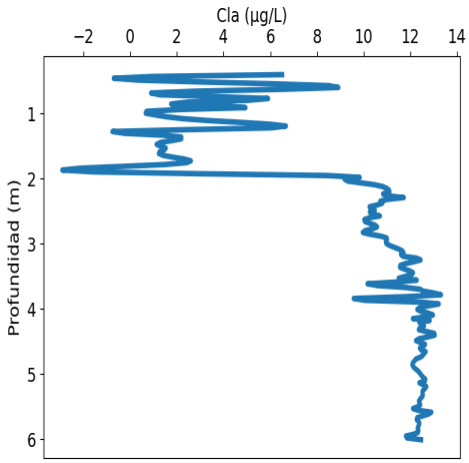
Nombre: CTD N04 - Punto 012 **Fecha: 20/09/2021** **Hora: 09:09:37**

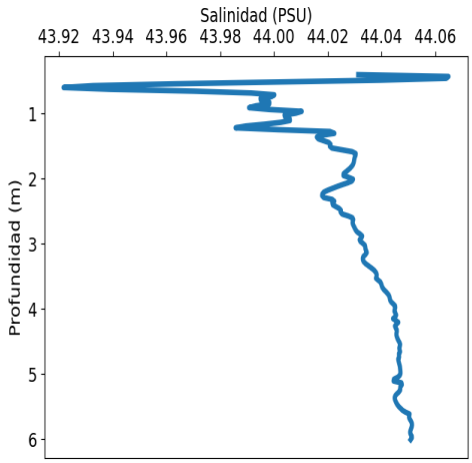


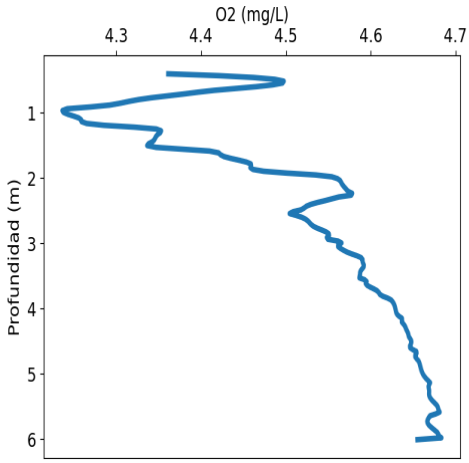


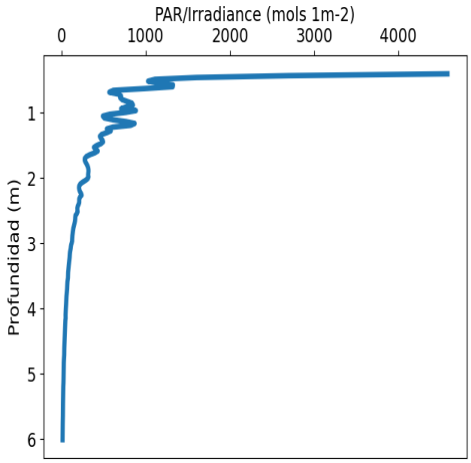


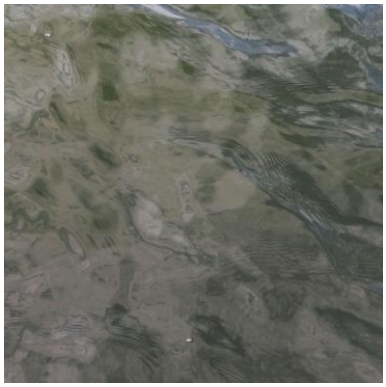












VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE							
	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m^3)	Salinity (PSU)
MÍNIMO	26.56	6.69	0.08	4.24	13.84	0.62	43.92
PROF (metros)	5.582	0.552	0.4	0.934	6.0	1.909	0.607
MÁXIMO	26.59	26.59	3.32	4.68	4581.5	13.09	44.05
PROF (metros)	0.4	0.4	2.536	5.496	0.4	4.383	3.949

DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
CTD N04 - Punto 012	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0 - 1m	26.58	6.7	2.53	4.35	1222.43	4.25	43.99
1 - 2m	26.58	6.7	2.78	4.39	465.17	3.08	44.02
2 - 3m	26.58	6.7	2.92	4.54	182.92	10.66	44.03
3 - 4m	26.58	6.7	2.91	4.59	80.38	11.79	44.04
4 - 5m	26.58	6.7	2.78	4.65	38.46	12.49	44.05
5 - 6m	26.57	6.7	2.71	4.67	18.81	12.45	44.05
6 - 7m	26.56	6.7	2.37	4.66	13.84	12.51	44.05

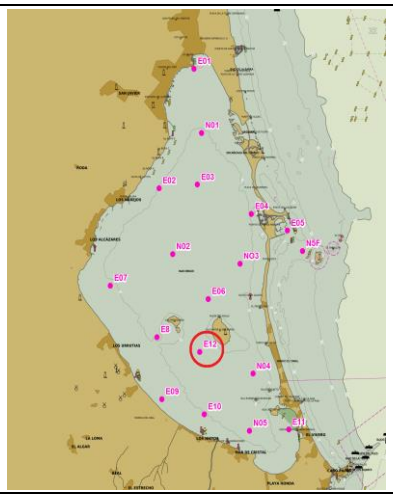
OBSERVACIONES GENERALES
CLOROFILA elevada en la(s) columna(s) de agua 0 - 1m, 1 - 2m, 2 - 3m, 3 - 4m, 4 - 5m, 5 - 6m, 6 - 7m con los valores 4.25, 3.08, 10.66, 11.79, 12.49, 12.45, 12.51 respectivamente

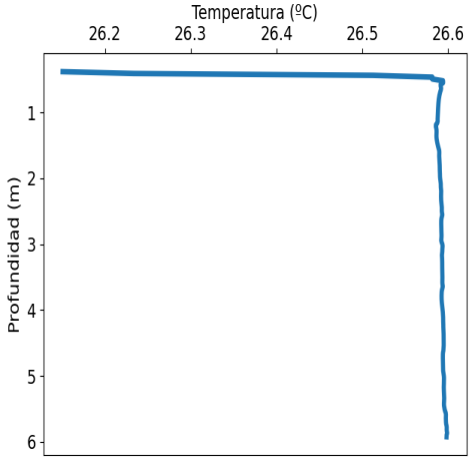
DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
Depth (m)	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0.4	26.59	6.7	0.08	4.36	4581.5	6.51	44.03
0.552	26.58	6.69	3.2	4.49	1234.8	7.25	43.95
0.607	26.58	6.69	2.44	4.46	1244.8	8.4	43.92
0.651	26.58	6.69	2.59	4.42	638.12	3.13	43.97
0.71	26.58	6.7	3.17	4.38	672.75	1.3	44.0
0.775	26.58	6.7	3.01	4.34	698.49	6.03	43.99
0.844	26.58	6.7	2.48	4.31	826.69	1.56	44.0
0.906	26.58	6.7	2.63	4.27	774.02	4.99	43.99
0.934	26.58	6.7	2.98	4.24	702.55	2.27	44.0
0.953	26.58	6.7	2.75	4.24	850.59	1.01	44.01
1.006	26.58	6.7	3.13	4.24	652.94	0.89	44.01
1.097	26.58	6.7	2.59	4.26	580.95	3.01	44.01
1.188	26.58	6.7	2.59	4.28	825.73	6.67	43.99
1.239	26.58	6.7	2.9	4.34	524.5	3.5	44.0
1.251	26.58	6.7	2.94	4.35	559.15	1.31	44.01
1.326	26.58	6.7	3.05	4.35	482.85	1.23	44.02
1.457	26.58	6.7	2.37	4.34	486.11	1.16	44.02
1.543	26.59	6.7	2.79	4.36	391.49	1.55	44.02
1.565	26.59	6.7	2.86	4.39	425.85	1.38	44.03
1.646	26.59	6.7	2.86	4.42	325.23	1.5	44.03
1.783	26.59	6.7	2.79	4.46	299.54	1.34	44.03
1.909	26.59	6.7	2.63	4.49	319.99	0.62	44.03
1.958	26.58	6.7	2.67	4.54	317.48	9.48	44.03
1.989	26.58	6.7	2.75	4.56	320.59	9.48	44.03
2.08	26.58	6.7	2.86	4.57	230.68	10.29	44.03
2.167	26.58	6.7	2.98	4.57	211.23	11.07	44.02
2.223	26.58	6.7	2.75	4.58	227.87	10.94	44.02
2.256	26.58	6.7	2.86	4.58	240.68	10.86	44.02
2.277	26.58	6.7	2.75	4.57	226.86	11.65	44.02
2.318	26.58	6.7	2.94	4.55	211.28	10.94	44.02
2.377	26.58	6.7	3.09	4.54	210.21	10.8	44.02
2.437	26.58	6.7	3.2	4.52	191.55	10.21	44.02
2.496	26.58	6.7	2.98	4.51	191.02	10.46	44.02

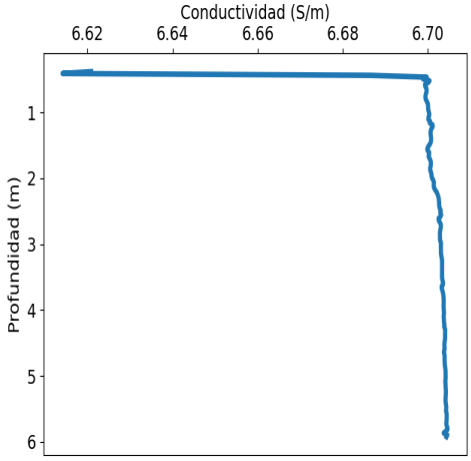
2.536	26.58	6.7	3.32	4.5	186.38	10.25	44.03
2.552	26.58	6.7	2.82	4.51	174.59	10.65	44.03
2.589	26.58	6.7	2.82	4.52	165.3	10.38	44.03
2.66	26.58	6.7	2.9	4.53	160.76	10.08	44.03
2.746	26.58	6.7	2.75	4.53	144.64	10.55	44.03
2.822	26.58	6.7	2.79	4.55	135.55	9.96	44.03
2.888	26.58	6.7	2.79	4.55	129.8	10.85	44.03
2.938	26.58	6.7	3.17	4.55	127.77	11.0	44.03
2.971	26.58	6.7	2.9	4.56	126.39	10.94	44.03
3.016	26.58	6.7	2.75	4.56	116.43	11.08	44.03
3.081	26.58	6.7	2.9	4.57	109.24	11.52	44.03
3.144	26.58	6.7	3.05	4.57	100.92	11.68	44.03
3.187	26.58	6.7	2.79	4.58	99.18	11.66	44.03
3.224	26.58	6.7	3.28	4.59	96.61	12.38	44.03
3.275	26.58	6.7	3.05	4.59	92.0	12.12	44.03
3.346	26.58	6.7	2.79	4.59	86.68	11.53	44.04
3.426	26.58	6.7	2.75	4.59	80.49	12.06	44.04
3.499	26.58	6.7	3.28	4.59	78.22	11.76	44.04
3.539	26.58	6.7	2.75	4.59	76.75	11.72	44.04
3.557	26.58	6.7	2.82	4.59	74.39	12.32	44.04
3.605	26.58	6.7	2.82	4.59	70.46	10.3	44.04
3.676	26.58	6.7	2.9	4.6	68.23	12.1	44.04
3.737	26.58	6.7	2.9	4.61	65.03	12.68	44.04
3.796	26.58	6.7	2.86	4.61	60.75	12.79	44.04
3.848	26.58	6.7	2.86	4.62	59.05	9.29	44.04
3.892	26.58	6.7	2.86	4.63	57.67	12.44	44.04
3.949	26.58	6.7	2.9	4.63	54.77	12.78	44.05
4.036	26.58	6.7	2.63	4.63	51.22	12.47	44.04
4.119	26.58	6.7	2.59	4.63	49.49	12.64	44.05
4.154	26.58	6.7	2.71	4.64	49.27	12.29	44.04
4.162	26.58	6.7	2.79	4.64	48.29	12.67	44.04
4.192	26.58	6.7	2.75	4.64	46.16	12.5	44.05
4.247	26.58	6.7	2.9	4.64	44.72	12.59	44.05
4.312	26.58	6.7	2.94	4.64	41.73	12.34	44.05
4.383	26.58	6.7	2.98	4.64	39.64	13.09	44.05
4.438	26.58	6.7	3.24	4.65	38.2	12.58	44.05
4.478	26.58	6.7	2.82	4.65	37.34	12.23	44.05
4.542	26.58	6.7	2.79	4.65	35.3	12.63	44.05
4.613	26.58	6.7	3.05	4.65	34.34	12.39	44.05
4.666	26.58	6.7	2.59	4.65	33.67	12.68	44.05
4.702	26.58	6.7	2.75	4.65	33.01	12.5	44.05
4.726	26.58	6.7	2.79	4.65	32.67	12.57	44.05
4.738	26.58	6.7	2.59	4.65	32.06	12.42	44.05
4.772	26.58	6.7	2.67	4.65	29.93	12.22	44.05
4.856	26.58	6.7	2.86	4.66	27.76	12.08	44.05
4.959	26.58	6.7	2.48	4.66	25.99	12.35	44.05
5.053	26.58	6.7	2.48	4.66	25.09	12.57	44.05
5.119	26.57	6.7	2.4	4.67	24.96	12.5	44.05
5.127	26.57	6.7	2.98	4.67	24.62	12.41	44.05
5.165	26.57	6.7	2.79	4.67	23.09	12.59	44.05
5.244	26.57	6.7	2.86	4.67	21.7	12.54	44.05
5.329	26.57	6.7	2.9	4.67	20.45	12.53	44.05
5.422	26.57	6.7	2.63	4.67	19.18	12.36	44.05
5.496	26.57	6.7	2.63	4.68	18.96	12.34	44.05
5.549	26.57	6.7	2.82	4.68	18.77	12.24	44.05
5.582	26.56	6.7	2.9	4.68	18.65	12.9	44.05
5.601	26.56	6.7	2.94	4.68	18.6	12.82	44.05
5.617	26.56	6.7	3.01	4.67	18.2	12.75	44.05

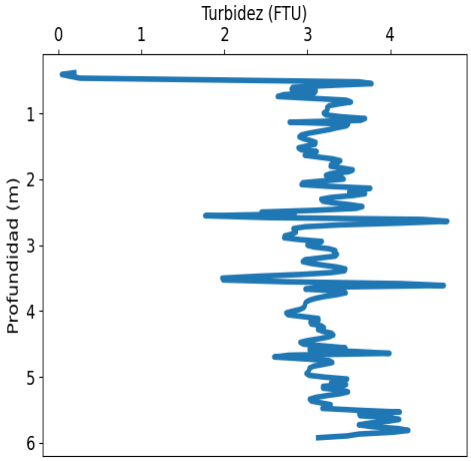
5.653	26.56	6.7	2.9	4.67	17.27	12.38	44.05
5.733	26.56	6.7	3.05	4.67	16.07	12.37	44.05
5.835	26.56	6.7	2.48	4.67	15.04	12.31	44.05
5.923	26.56	6.7	2.56	4.68	14.37	12.12	44.05
5.974	26.56	6.7	2.63	4.68	14.33	11.81	44.05
5.992	26.56	6.7	2.25	4.68	14.11	12.46	44.05
5.995	26.56	6.7	2.29	4.67	13.85	12.64	44.05
6.0	26.56	6.7	2.48	4.66	13.84	12.57	44.05
6.005	26.56	6.7	2.25	4.66	13.84	12.46	44.05

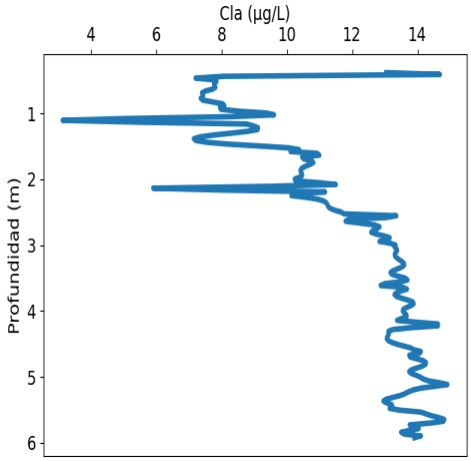
Nombre: CTD E12 - Punto 013 **Fecha: 20/09/2021** **Hora: 09:09:50**

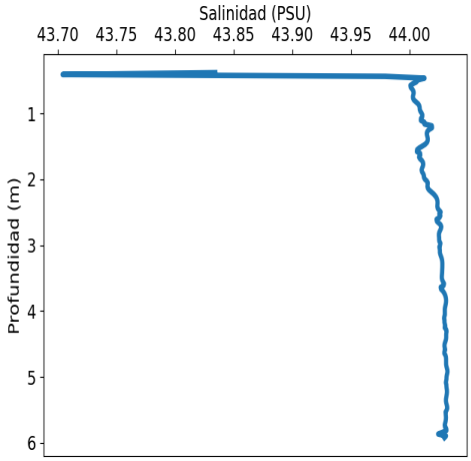


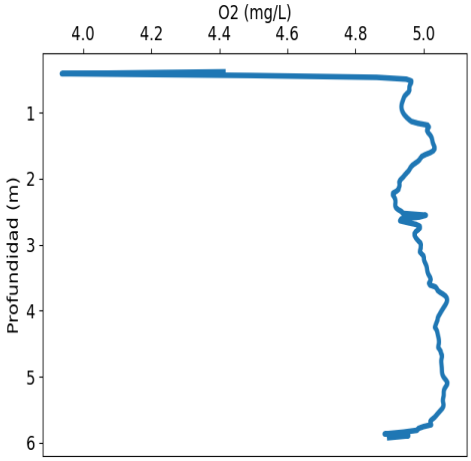


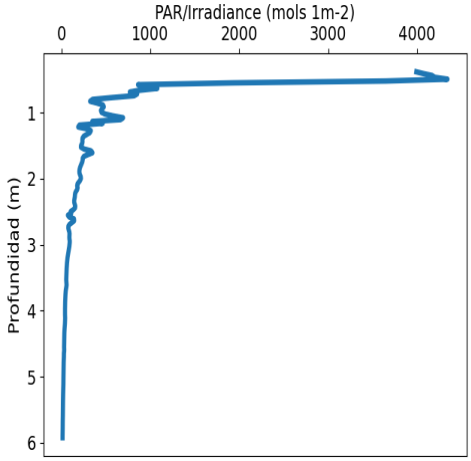












VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE							
	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m^3)	Salinity (PSU)
MÍNIMO	26.15	6.61	0.04	3.94	14.02	3.6	43.64
PROF (metros)	0.382	0.405	0.405	0.41	5.919	1.119	0.405
MÁXIMO	26.6	26.6	4.2	5.07	4138.3	14.92	44.03
PROF (metros)	5.05	0.448	3.623	3.875	0.457	5.111	2.466

DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
CTD E12 - Punto 013	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0 - 1m	26.5	6.68	1.99	4.73	2254.26	9.06	43.94
1 - 2m	26.59	6.7	3.23	4.99	316.7	9.26	44.01
2 - 3m	26.59	6.7	3.27	4.95	134.64	11.44	44.02
3 - 4m	26.59	6.7	3.19	5.02	62.21	13.42	44.03
4 - 5m	26.59	6.7	3.13	5.05	33.84	13.79	44.03
5 - 6m	26.6	6.7	3.52	5.02	18.08	14.0	44.03

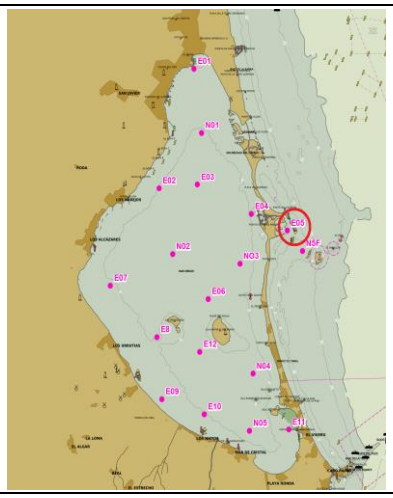
OBSERVACIONES GENERALES
CLOROFILA elevada en la(s) columna(s) de agua 0 - 1m, 1 - 2m, 2 - 3m, 3 - 4m, 4 - 5m, 5 - 6m con los valores 9.06, 9.26, 11.44, 13.42, 13.79, 14.0 respectivamente

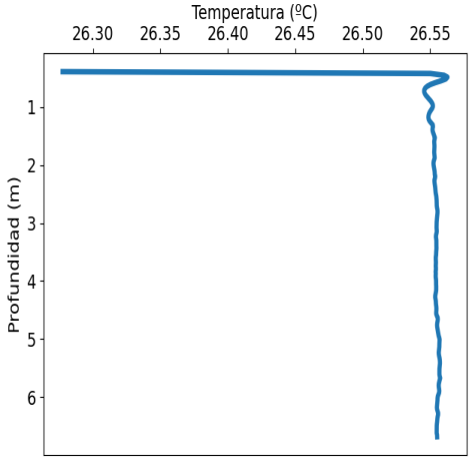
DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
Depth (m)	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0.382	26.15	6.62	0.19	4.41	3990.4	13.04	43.83
0.405	26.24	6.61	0.04	3.96	3946.2	14.79	43.64
0.41	26.23	6.61	0.04	3.94	4075.5	14.67	43.71
0.448	26.59	6.7	0.11	4.72	4122.0	6.5	44.02
0.457	26.59	6.7	0.08	4.81	4138.3	6.76	44.02
0.516	26.59	6.7	3.43	4.96	3883.6	7.85	44.01
0.564	26.59	6.7	3.51	4.96	1173.9	7.76	44.0
0.621	26.59	6.7	2.75	4.96	1071.0	7.78	44.0
0.676	26.59	6.7	3.17	4.96	782.86	7.42	44.0
0.733	26.59	6.7	2.59	4.95	864.71	7.45	44.0
0.796	26.59	6.7	3.43	4.94	370.65	7.4	44.0
0.867	26.59	6.7	3.32	4.94	437.55	8.1	44.01
0.956	26.59	6.7	3.24	4.94	448.75	8.23	44.01
1.05	26.59	6.7	3.4	4.95	582.03	8.28	44.01
1.119	26.59	6.7	3.32	4.96	547.23	3.6	44.01
1.153	26.59	6.7	2.94	4.97	336.73	8.22	44.01
1.161	26.59	6.7	3.47	4.98	462.48	8.75	44.01
1.172	26.59	6.7	3.59	5.0	368.93	8.9	44.02
1.241	26.59	6.7	3.28	5.01	275.63	9.13	44.02
1.349	26.59	6.7	2.9	5.02	260.53	7.44	44.02
1.47	26.59	6.7	3.09	5.03	233.64	8.3	44.01
1.554	26.59	6.7	2.94	5.03	262.9	10.36	44.01
1.589	26.59	6.7	3.13	5.03	351.98	10.22	44.01
1.612	26.59	6.7	2.98	5.02	343.59	11.09	44.01
1.651	26.59	6.7	3.05	5.0	268.56	10.61	44.01
1.715	26.59	6.7	3.4	4.99	239.9	10.73	44.01
1.803	26.59	6.7	3.28	4.97	217.64	10.56	44.01
1.876	26.59	6.7	3.55	4.96	203.5	10.41	44.01
1.934	26.59	6.7	3.2	4.95	207.5	10.47	44.01
1.985	26.59	6.7	3.47	4.94	221.05	10.31	44.01
2.038	26.59	6.7	3.05	4.93	204.77	10.52	44.02
2.1	26.59	6.7	3.13	4.93	177.2	10.39	44.02
2.15	26.59	6.7	3.81	4.93	183.47	5.97	44.02
2.18	26.59	6.7	3.47	4.92	170.67	10.68	44.02

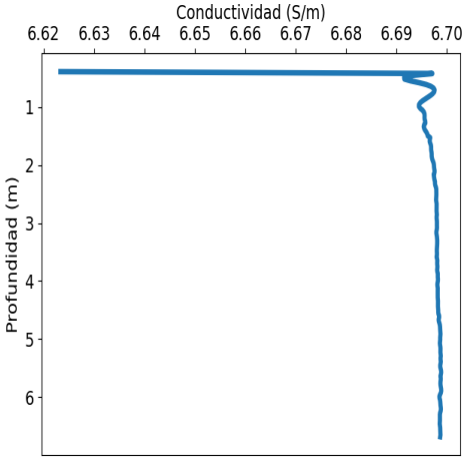
2.209	26.59	6.7	3.66	4.91	158.54	10.53	44.02
2.271	26.59	6.7	3.32	4.91	152.14	10.54	44.02
2.365	26.59	6.7	3.36	4.92	145.51	11.22	44.02
2.466	26.59	6.7	3.2	4.92	139.34	11.44	44.03
2.535	26.59	6.7	3.47	4.94	131.89	11.73	44.02
2.544	26.59	6.7	3.4	4.96	129.14	12.16	44.02
2.545	26.59	6.7	3.17	4.96	121.42	12.33	44.02
2.588	26.59	6.7	3.13	4.97	108.16	12.64	44.02
2.687	26.59	6.7	3.51	4.97	96.61	12.62	44.03
2.81	26.59	6.7	2.86	4.98	90.5	12.59	44.03
2.907	26.59	6.7	2.82	4.98	91.01	13.11	44.03
2.953	26.59	6.7	3.2	4.99	94.91	12.88	44.03
2.975	26.59	6.7	3.09	4.99	93.68	13.22	44.03
3.014	26.59	6.7	3.01	4.99	91.2	13.3	44.03
3.067	26.59	6.7	3.32	4.99	85.03	13.38	44.03
3.113	26.59	6.7	3.32	4.99	79.93	13.32	44.03
3.16	26.59	6.7	3.36	5.0	73.58	13.3	44.03
3.22	26.59	6.7	2.98	5.0	67.88	13.43	44.03
3.318	26.59	6.7	3.28	5.01	61.53	13.56	44.03
3.441	26.59	6.7	2.98	5.01	57.29	13.21	44.03
3.553	26.59	6.7	2.63	5.02	56.27	13.51	44.03
3.623	26.59	6.7	4.2	5.02	58.4	13.07	44.03
3.636	26.59	6.7	3.28	5.03	56.92	13.47	44.03
3.675	26.59	6.7	3.13	5.04	51.97	13.62	44.03
3.764	26.59	6.7	3.28	5.06	46.37	13.31	44.03
3.875	26.59	6.7	2.98	5.07	42.9	13.89	44.03
3.979	26.59	6.7	2.9	5.06	41.62	13.55	44.03
4.061	26.59	6.7	2.79	5.05	41.66	13.66	44.03
4.111	26.59	6.7	3.13	5.04	42.95	13.53	44.03
4.143	26.59	6.7	3.13	5.04	42.43	13.39	44.03
4.181	26.59	6.7	3.01	5.04	41.39	14.3	44.03
4.223	26.59	6.7	3.17	5.03	39.53	14.64	44.03
4.25	26.59	6.7	3.2	5.03	38.7	13.85	44.03
4.277	26.59	6.7	3.13	5.04	36.48	13.28	44.03
4.332	26.59	6.7	3.28	5.04	34.23	13.12	44.03
4.423	26.59	6.7	3.13	5.04	32.88	13.05	44.03
4.52	26.59	6.7	3.09	5.04	31.63	13.49	44.03
4.586	26.59	6.7	3.01	5.05	32.21	13.88	44.03
4.609	26.59	6.7	3.05	5.05	32.36	14.0	44.03
4.614	26.59	6.7	3.62	5.05	31.39	14.11	44.03
4.655	26.59	6.7	3.28	5.05	29.36	13.86	44.03
4.737	26.59	6.7	3.13	5.05	27.41	14.07	44.03
4.832	26.59	6.7	3.09	5.05	25.74	14.16	44.03
4.919	26.59	6.7	3.01	5.05	24.69	13.74	44.03
4.994	26.59	6.7	3.13	5.06	24.09	14.05	44.03
5.05	26.59	6.7	3.51	5.07	23.81	14.27	44.03
5.086	26.59	6.7	3.28	5.07	23.48	14.65	44.03
5.111	26.59	6.7	3.47	5.07	23.26	14.92	44.03
5.145	26.59	6.7	3.17	5.07	22.4	14.45	44.03
5.201	26.59	6.7	3.43	5.06	21.5	13.84	44.03
5.281	26.6	6.7	3.24	5.06	19.94	13.47	44.03
5.367	26.6	6.7	3.05	5.06	18.92	12.95	44.03
5.442	26.59	6.7	3.28	5.06	18.54	13.24	44.03
5.496	26.6	6.7	3.4	5.05	18.12	13.29	44.03
5.53	26.6	6.7	4.12	5.05	18.23	14.06	44.03
5.56	26.6	6.7	3.62	5.04	17.8	14.26	44.03
5.617	26.6	6.7	4.0	5.03	16.6	14.65	44.03
5.696	26.6	6.7	3.78	5.02	16.0	14.46	44.03

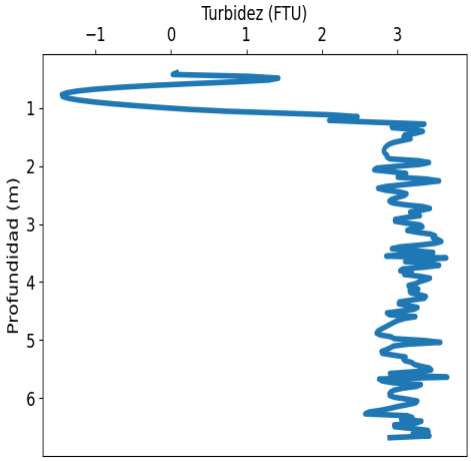
5.747	26.6	6.7	3.7	5.01	16.0	13.7	44.03
5.757	26.6	6.7	3.81	5.0	15.89	13.89	44.03
5.831	26.6	6.7	4.12	4.96	14.63	13.54	44.03
5.892	26.6	6.7	3.47	4.94	14.23	14.05	44.03
5.919	26.6	6.7	3.4	4.93	14.02	14.22	44.03
5.92	26.6	6.7	3.36	4.91	14.03	14.17	44.03
5.922	26.6	6.7	3.13	4.9	14.14	13.9	44.03

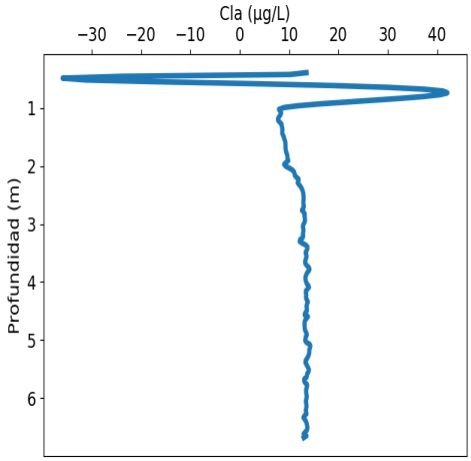
Nombre: CTD E06 - Punto 014 **Fecha: 20/09/2021** **Hora: 09:09:33**

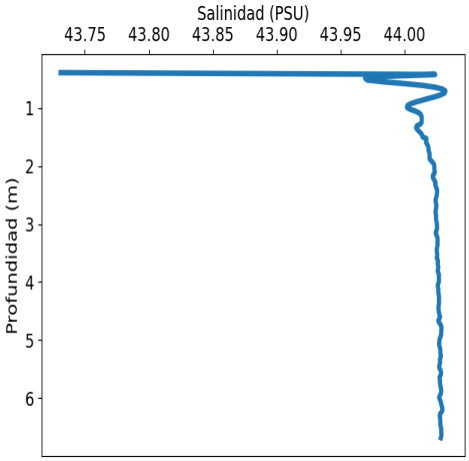


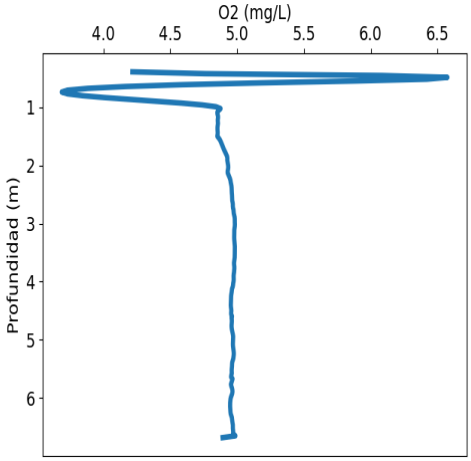


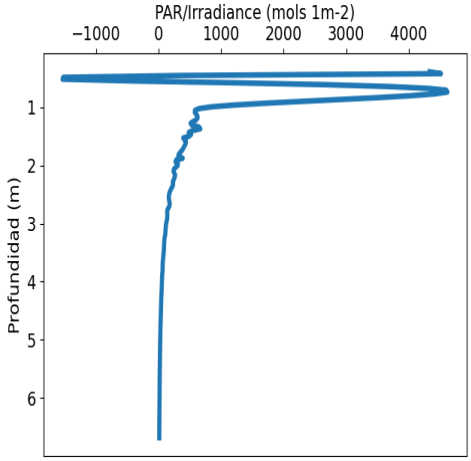












VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE							
	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m^3)	Salinity (PSU)
MÍNIMO	26.16	6.62	0.04	4.22	7.97	6.6	43.73
PROF (metros)	0.404	0.392	0.412	0.392	6.681	0.427	0.392
MÁXIMO	26.56	26.56	3.97	4.99	4539.2	14.14	44.03
PROF (metros)	2.77	0.412	6.68	0.591	0.425	5.144	0.412

DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
CTD E06 - Punto 014	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0 - 1m	26.46	6.67	0.07	4.62	3965.17	10.41	43.95
1 - 2m	26.55	6.7	2.72	4.88	465.27	8.9	44.02
2 - 3m	26.55	6.7	3.11	4.96	189.98	12.35	44.02
3 - 4m	26.55	6.7	3.3	4.98	77.89	13.25	44.03
4 - 5m	26.55	6.7	3.09	4.96	35.58	13.51	44.03
5 - 6m	26.56	6.7	3.14	4.96	16.73	13.55	44.03
6 - 7m	26.56	6.7	3.22	4.95	9.09	13.29	44.03

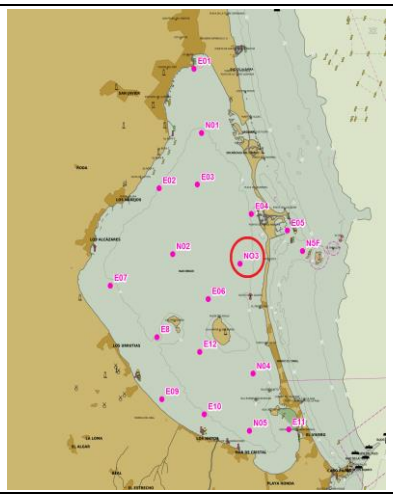
OBSERVACIONES GENERALES
CLOROFILA elevada en la(s) columna(s) de agua 0 - 1m, 1 - 2m, 2 - 3m, 3 - 4m, 4 - 5m, 5 - 6m, 6 - 7m con los valores 10.41, 8.9, 12.35, 13.25, 13.51, 13.55, 13.29 respectivamente

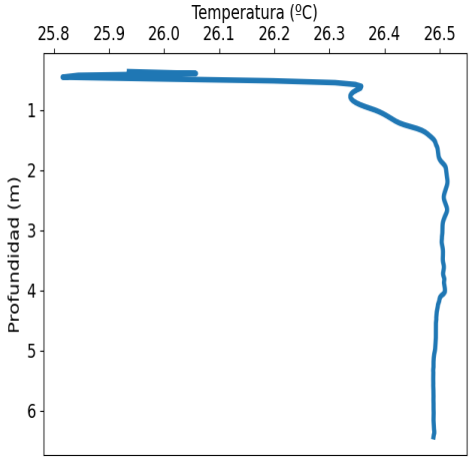
DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
Depth (m)	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0.392	26.28	6.62	0.08	4.22	4336.6	13.52	43.73
0.404	26.16	6.62	0.08	4.26	4413.7	14.01	43.78
0.412	26.54	6.7	0.04	4.43	4271.8	11.35	44.03
0.421	26.55	6.7	0.04	4.72	4213.8	10.49	44.03
0.425	26.55	6.7	0.04	4.8	4539.2	9.23	44.02
0.427	26.55	6.7	0.11	4.9	4257.9	6.6	44.02
0.591	26.55	6.69	0.11	4.99	1723.2	7.63	44.0
1.008	26.55	6.69	0.04	4.87	728.59	8.2	44.0
1.06	26.55	6.7	0.8	4.86	576.12	8.23	44.01
1.154	26.55	6.7	2.48	4.86	619.76	7.92	44.01
1.231	26.55	6.7	2.29	4.86	577.86	7.87	44.01
1.274	26.55	6.7	3.36	4.86	511.42	8.43	44.01
1.311	26.55	6.7	2.9	4.86	536.93	8.48	44.01
1.362	26.55	6.7	3.17	4.85	681.54	8.64	44.01
1.418	26.55	6.7	3.32	4.85	489.04	8.56	44.01
1.469	26.55	6.7	3.09	4.85	519.54	8.73	44.01
1.5	26.55	6.7	3.09	4.85	480.28	8.92	44.01
1.516	26.55	6.7	3.17	4.86	417.54	8.94	44.02
1.566	26.55	6.7	3.05	4.87	418.32	9.15	44.02
1.656	26.55	6.7	2.86	4.89	415.51	9.24	44.02
1.743	26.55	6.7	2.82	4.91	371.25	9.35	44.02
1.808	26.55	6.7	2.86	4.92	320.66	9.59	44.02
1.847	26.55	6.7	2.86	4.93	314.12	9.62	44.02
1.865	26.55	6.7	2.82	4.93	341.93	9.55	44.02
1.877	26.55	6.7	2.9	4.93	382.78	9.67	44.02
1.902	26.55	6.7	3.2	4.93	301.7	9.86	44.02
1.965	26.55	6.7	3.36	4.93	300.58	8.99	44.02
2.059	26.55	6.7	2.67	4.93	246.95	10.49	44.02
2.135	26.55	6.7	3.13	4.93	247.98	11.09	44.02
2.18	26.55	6.7	2.98	4.94	262.77	11.26	44.02
2.204	26.55	6.7	3.09	4.94	251.86	11.61	44.02
2.236	26.55	6.7	3.51	4.95	244.95	11.97	44.02
2.279	26.55	6.7	3.43	4.95	225.19	11.7	44.02

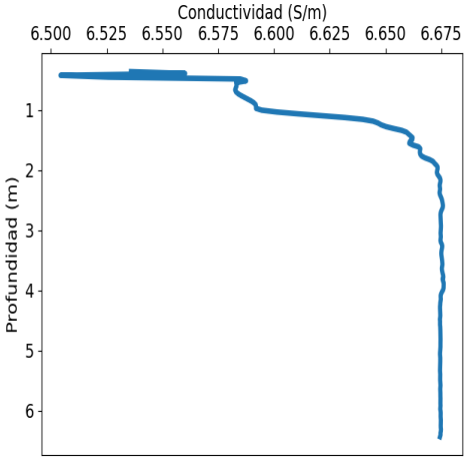
2.326	26.55	6.7	3.05	4.96	228.87	12.04	44.02
2.391	26.55	6.7	2.75	4.96	204.16	12.56	44.03
2.46	26.55	6.7	3.09	4.96	175.81	12.82	44.03
2.526	26.55	6.7	3.05	4.96	161.51	12.9	44.02
2.596	26.55	6.7	2.9	4.96	165.22	12.89	44.02
2.661	26.55	6.7	3.05	4.97	174.23	12.88	44.02
2.72	26.55	6.7	3.43	4.97	161.92	12.92	44.02
2.77	26.56	6.7	3.28	4.97	136.46	12.59	44.02
2.809	26.56	6.7	3.17	4.97	134.58	13.11	44.02
2.845	26.56	6.7	3.32	4.98	136.43	13.1	44.02
2.893	26.56	6.7	3.09	4.98	135.39	13.16	44.02
2.965	26.55	6.7	3.01	4.98	125.39	13.13	44.02
3.036	26.55	6.7	3.36	4.98	113.37	12.76	44.03
3.101	26.55	6.7	3.13	4.98	109.93	12.89	44.03
3.157	26.55	6.7	3.36	4.98	105.56	12.79	44.02
3.197	26.55	6.7	3.51	4.98	102.35	12.81	44.02
3.231	26.55	6.7	3.47	4.98	95.52	12.77	44.03
3.287	26.55	6.7	3.59	4.98	88.67	12.05	44.03
3.361	26.55	6.7	3.32	4.98	85.25	13.33	44.03
3.437	26.55	6.7	2.98	4.98	82.7	13.63	44.03
3.502	26.55	6.7	3.43	4.98	77.77	13.31	44.03
3.556	26.55	6.7	2.9	4.98	74.4	13.53	44.03
3.588	26.55	6.7	3.7	4.98	71.46	13.42	44.03
3.622	26.55	6.7	3.2	4.98	67.08	13.29	44.03
3.689	26.55	6.7	3.51	4.98	62.84	13.31	44.03
3.756	26.55	6.7	3.24	4.98	62.65	14.03	44.03
3.802	26.55	6.7	3.01	4.98	61.43	14.01	44.03
3.826	26.55	6.7	3.2	4.98	59.02	13.73	44.03
3.86	26.55	6.7	3.09	4.98	55.9	13.52	44.03
3.915	26.55	6.7	3.4	4.97	53.36	13.29	44.03
3.983	26.55	6.7	3.32	4.97	50.73	13.37	44.03
4.044	26.55	6.7	3.2	4.97	49.73	13.7	44.03
4.083	26.55	6.7	3.13	4.97	49.46	14.03	44.03
4.112	26.55	6.7	3.28	4.96	47.57	13.81	44.03
4.153	26.55	6.7	3.17	4.96	45.47	13.36	44.03
4.213	26.55	6.7	3.28	4.96	42.17	13.47	44.03
4.281	26.55	6.7	3.36	4.96	39.69	13.41	44.03
4.336	26.55	6.7	3.05	4.95	38.91	13.78	44.03
4.385	26.55	6.7	3.05	4.95	38.2	13.57	44.03
4.444	26.55	6.7	3.28	4.95	35.77	13.54	44.03
4.518	26.55	6.7	2.94	4.96	34.03	13.43	44.03
4.575	26.55	6.7	3.01	4.96	32.77	13.31	44.03
4.594	26.55	6.7	3.24	4.96	32.91	13.79	44.03
4.605	26.56	6.7	3.2	4.96	32.25	13.75	44.03
4.644	26.56	6.7	3.05	4.96	30.49	13.33	44.03
4.737	26.56	6.7	2.9	4.96	27.62	13.11	44.03
4.843	26.56	6.7	2.75	4.96	26.0	13.29	44.03
4.924	26.56	6.7	2.82	4.97	24.69	13.51	44.03
4.966	26.56	6.7	2.98	4.97	24.14	13.24	44.03
4.993	26.56	6.7	3.05	4.97	24.13	13.34	44.03
5.018	26.56	6.7	3.59	4.97	23.43	13.18	44.03
5.059	26.56	6.7	3.28	4.97	22.4	13.94	44.03
5.144	26.56	6.7	2.9	4.97	20.59	14.14	44.03
5.235	26.56	6.7	2.82	4.98	19.23	14.03	44.03
5.305	26.56	6.7	3.13	4.97	18.71	13.69	44.03
5.34	26.56	6.7	3.05	4.97	18.44	13.44	44.03
5.368	26.56	6.7	3.17	4.97	18.13	13.25	44.03
5.403	26.56	6.7	3.2	4.96	17.63	13.38	44.03

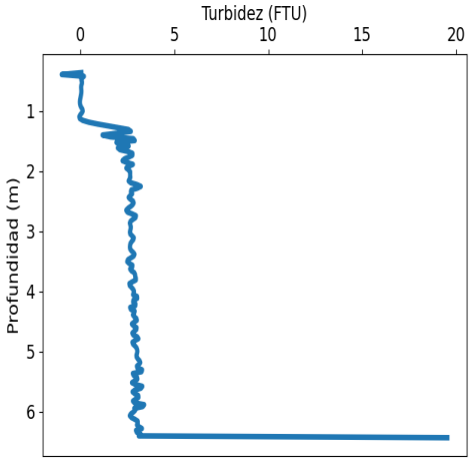
5.461	26.56	6.7	3.36	4.96	16.77	13.73	44.03
5.536	26.56	6.7	3.32	4.96	15.85	13.97	44.03
5.6	26.56	6.7	3.05	4.96	15.32	13.57	44.03
5.65	26.56	6.7	3.28	4.96	14.92	13.22	44.03
5.673	26.56	6.7	3.01	4.96	15.05	13.26	44.03
5.675	26.56	6.7	3.28	4.96	15.17	13.47	44.03
5.693	26.56	6.7	3.17	4.96	14.69	13.34	44.03
5.742	26.56	6.7	3.09	4.96	14.01	13.37	44.03
5.819	26.56	6.7	3.13	4.96	13.1	13.53	44.03
5.918	26.56	6.7	2.9	4.96	12.22	13.45	44.03
5.997	26.56	6.7	3.01	4.95	12.28	13.53	44.03
6.039	26.56	6.7	3.24	4.95	11.61	13.38	44.03
6.133	26.55	6.7	3.05	4.95	10.77	13.51	44.03
6.232	26.56	6.7	2.67	4.95	10.32	13.39	44.03
6.29	26.56	6.7	2.82	4.95	10.2	13.34	44.03
6.313	26.56	6.7	3.32	4.96	10.05	12.92	44.03
6.347	26.56	6.7	3.05	4.96	9.71	12.99	44.03
6.405	26.56	6.7	3.36	4.96	9.45	13.42	44.03
6.465	26.55	6.7	2.94	4.97	9.12	13.61	44.03
6.529	26.55	6.7	3.24	4.97	8.87	13.67	44.03
6.592	26.55	6.7	3.4	4.97	8.51	13.18	44.03
6.641	26.55	6.7	3.28	4.98	8.41	13.2	44.03
6.664	26.56	6.7	3.43	4.98	8.16	13.14	44.03
6.667	26.56	6.7	3.4	4.98	8.12	12.93	44.03
6.672	26.56	6.7	3.32	4.96	8.05	13.39	44.03
6.677	26.56	6.7	3.05	4.95	8.16	13.67	44.03
6.68	26.56	6.7	3.97	4.93	8.07	13.41	44.03
6.681	26.56	6.7	3.55	4.91	7.97	13.21	44.03
6.682	26.56	6.7	2.9	4.89	8.03	12.94	44.03

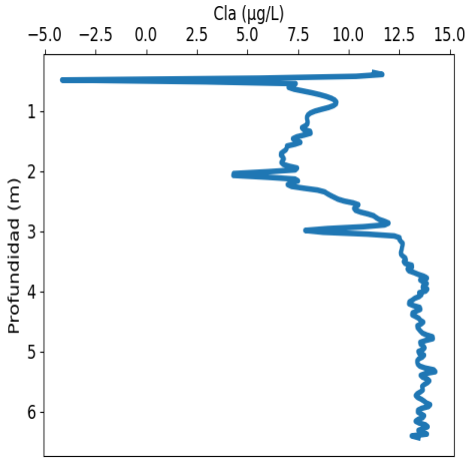
Nombre: CTD N03 - Punto 015 **Fecha: 20/09/2021** **Hora: 09:09:30**

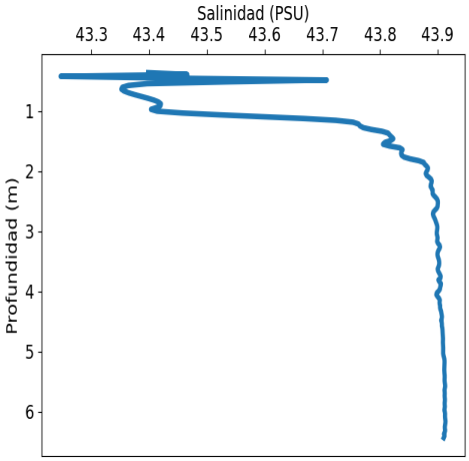


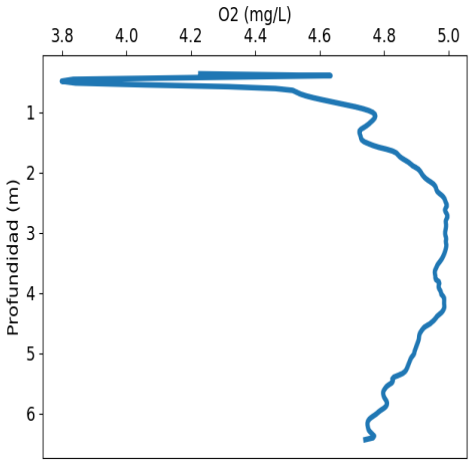


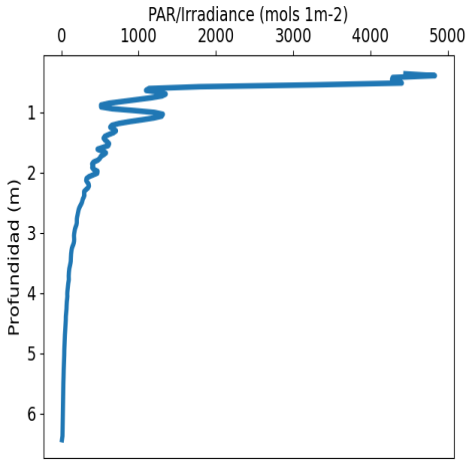












VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE							
	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m^3)	Salinity (PSU)
MÍNIMO	25.79	6.5	0.04	3.83	8.38	3.72	43.22
PROF (metros)	0.442	0.429	0.362	0.456	6.436	0.456	0.403
MÁXIMO	26.51	26.51	19.53	5.0	4453.8	14.31	43.91
PROF (metros)	1.889	2.498	6.436	2.553	0.362	5.334	4.325

DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
CTD N03 - Punto 015	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0 - 1m	26.08	6.55	0.06	4.29	3227.35	8.99	43.35
1 - 2m	26.48	6.66	2.18	4.81	556.1	7.25	43.83
2 - 3m	26.51	6.67	2.71	4.98	260.77	9.17	43.89
3 - 4m	26.51	6.68	2.74	4.98	117.6	13.02	43.9
4 - 5m	26.5	6.67	2.87	4.95	57.81	13.49	43.91
5 - 6m	26.49	6.67	3.02	4.83	26.79	13.69	43.91
6 - 7m	26.49	6.67	3.94	4.76	13.75	13.44	43.91

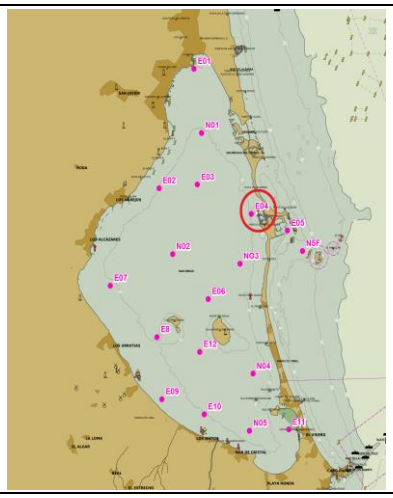
OBSERVACIONES GENERALES
CLOROFILA elevada en la(s) columna(s) de agua 0 - 1m, 1 - 2m, 2 - 3m, 3 - 4m, 4 - 5m, 5 - 6m, 6 - 7m con los valores 8.99, 7.25, 9.17, 13.02, 13.49, 13.69, 13.44 respectivamente

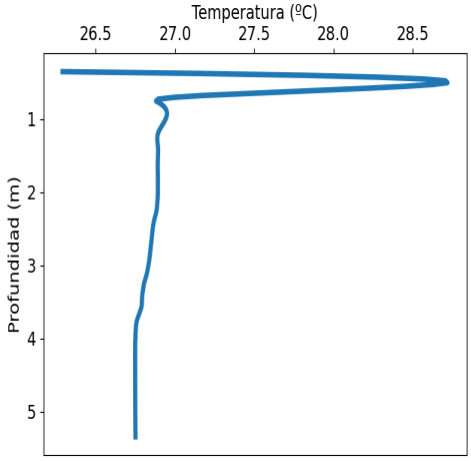
DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
Depth (m)	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0.362	25.94	6.54	0.04	4.23	4453.8	11.24	43.4
0.402	25.94	6.52	0.04	4.43	4357.8	11.25	43.24
0.403	25.93	6.51	0.11	4.41	4322.6	11.18	43.22
0.429	25.83	6.5	0.04	4.15	4367.9	11.29	43.26
0.442	25.79	6.5	0.04	3.91	4398.4	13.05	43.24
0.456	25.83	6.53	0.04	3.83	4258.9	3.72	43.49
0.522	26.24	6.59	0.08	3.88	4258.9	4.73	43.49
0.57	26.34	6.58	0.04	4.28	2017.3	7.28	43.37
0.666	26.35	6.58	0.04	4.53	1267.5	7.73	43.36
0.944	26.36	6.59	0.04	4.74	674.63	8.98	43.41
0.991	26.38	6.59	0.11	4.76	1123.1	8.44	43.41
1.161	26.42	6.64	0.15	4.76	855.93	7.96	43.73
1.247	26.44	6.65	1.45	4.74	631.5	7.85	43.77
1.299	26.46	6.65	2.4	4.73	705.98	7.7	43.78
1.348	26.47	6.66	2.56	4.72	658.86	8.16	43.81
1.413	26.48	6.66	1.14	4.73	549.9	7.63	43.82
1.478	26.49	6.66	3.09	4.74	583.24	7.27	43.82
1.534	26.49	6.66	1.75	4.76	620.62	7.59	43.81
1.575	26.49	6.66	2.59	4.78	564.36	7.0	43.81
1.61	26.5	6.66	2.02	4.81	469.17	6.94	43.83
1.662	26.5	6.67	2.37	4.83	570.41	6.84	43.84
1.725	26.5	6.67	2.79	4.85	517.14	6.63	43.84
1.787	26.5	6.67	2.4	4.86	484.76	6.8	43.85
1.846	26.5	6.67	2.33	4.88	396.69	6.68	43.87
1.889	26.51	6.67	2.79	4.89	414.07	6.78	43.88
1.929	26.51	6.67	2.48	4.9	398.07	7.19	43.88
1.99	26.51	6.67	2.59	4.91	476.84	7.06	43.88
2.056	26.51	6.67	2.63	4.92	380.39	4.0	43.88
2.122	26.51	6.67	2.63	4.94	319.33	7.03	43.89
2.189	26.51	6.67	2.63	4.95	352.22	7.2	43.89
2.258	26.51	6.67	3.2	4.96	343.28	7.23	43.89
2.32	26.51	6.67	2.67	4.97	293.42	8.54	43.89
2.373	26.51	6.67	2.75	4.98	299.47	8.93	43.89

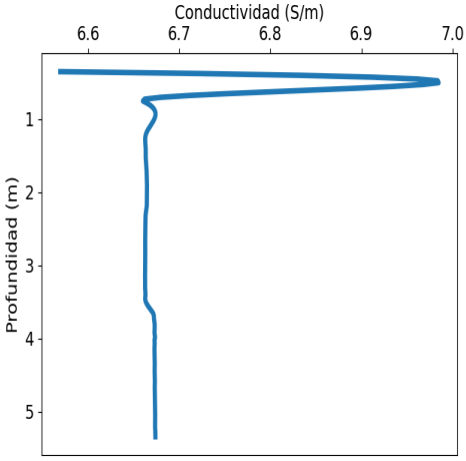
2.434	26.51	6.67	2.56	4.99	280.13	9.27	43.9
2.498	26.51	6.68	2.79	4.99	266.27	9.77	43.9
2.553	26.51	6.68	2.79	5.0	244.95	10.46	43.9
2.612	26.51	6.68	2.56	4.99	225.29	10.28	43.9
2.68	26.51	6.67	2.48	4.99	214.59	10.56	43.89
2.74	26.51	6.67	2.94	5.0	204.3	11.21	43.89
2.795	26.51	6.67	2.82	4.99	199.94	11.44	43.89
2.847	26.51	6.67	2.63	4.99	199.25	11.87	43.9
2.918	26.51	6.67	2.67	4.99	181.4	11.09	43.9
2.999	26.5	6.67	2.63	4.99	168.04	7.92	43.9
3.058	26.5	6.67	2.67	4.99	163.85	11.51	43.9
3.103	26.5	6.67	2.82	4.99	165.99	12.5	43.9
3.148	26.5	6.67	2.79	4.99	164.08	12.5	43.9
3.192	26.5	6.67	2.67	4.99	155.85	12.65	43.9
3.24	26.5	6.68	2.63	4.99	141.1	12.65	43.9
3.314	26.51	6.68	2.67	4.99	129.68	12.6	43.9
3.401	26.51	6.68	2.86	4.98	123.95	12.61	43.9
3.475	26.51	6.68	2.52	4.97	121.73	12.82	43.9
3.531	26.51	6.68	2.56	4.97	113.97	12.74	43.9
3.578	26.51	6.68	2.79	4.96	105.7	13.19	43.9
3.63	26.51	6.68	2.63	4.96	100.17	12.89	43.9
3.692	26.51	6.68	2.86	4.96	96.17	13.25	43.9
3.743	26.51	6.68	2.9	4.96	95.9	13.63	43.9
3.779	26.51	6.68	2.94	4.96	96.84	13.87	43.9
3.812	26.51	6.68	2.94	4.97	92.88	13.52	43.9
3.861	26.51	6.68	2.63	4.97	87.75	13.85	43.9
3.922	26.51	6.68	2.67	4.97	82.83	13.6	43.9
3.982	26.51	6.68	2.82	4.98	78.33	13.91	43.9
4.032	26.51	6.68	2.82	4.98	76.97	13.45	43.9
4.065	26.51	6.67	2.82	4.99	77.9	13.63	43.9
4.093	26.5	6.67	3.05	4.99	75.2	13.41	43.9
4.144	26.5	6.67	2.82	4.99	71.08	13.15	43.9
4.195	26.5	6.67	2.86	4.99	68.67	12.95	43.9
4.234	26.5	6.67	2.94	4.99	67.74	13.15	43.9
4.278	26.5	6.67	2.59	4.99	66.22	13.56	43.9
4.325	26.5	6.67	2.86	4.98	62.97	13.37	43.91
4.385	26.49	6.67	2.79	4.97	58.59	13.11	43.91
4.443	26.49	6.67	2.94	4.96	57.78	13.44	43.91
4.489	26.49	6.67	2.98	4.95	56.14	13.56	43.91
4.524	26.49	6.67	2.79	4.94	55.75	13.69	43.91
4.559	26.49	6.67	2.75	4.93	53.36	13.45	43.91
4.604	26.49	6.67	2.98	4.92	51.26	13.4	43.91
4.662	26.49	6.67	2.86	4.91	47.95	13.54	43.91
4.723	26.49	6.67	2.79	4.91	45.55	13.81	43.91
4.778	26.49	6.67	3.09	4.91	43.7	14.21	43.91
4.838	26.49	6.67	2.79	4.9	41.59	13.58	43.91
4.91	26.49	6.67	2.9	4.9	39.08	13.68	43.91
4.976	26.49	6.67	3.01	4.89	38.61	13.63	43.91
5.02	26.49	6.67	3.01	4.89	37.72	13.4	43.91
5.057	26.49	6.67	2.98	4.89	36.66	13.7	43.91
5.113	26.49	6.67	3.01	4.88	34.33	13.51	43.91
5.195	26.49	6.67	3.17	4.88	31.78	13.39	43.91
5.281	26.49	6.67	3.05	4.87	30.62	13.83	43.91
5.334	26.49	6.67	3.28	4.86	30.02	14.31	43.91
5.363	26.49	6.67	2.82	4.85	29.59	13.86	43.91
5.409	26.49	6.67	2.9	4.83	28.13	13.55	43.91
5.473	26.49	6.67	2.98	4.83	26.66	13.96	43.91
5.538	26.49	6.67	2.79	4.81	25.81	13.79	43.91

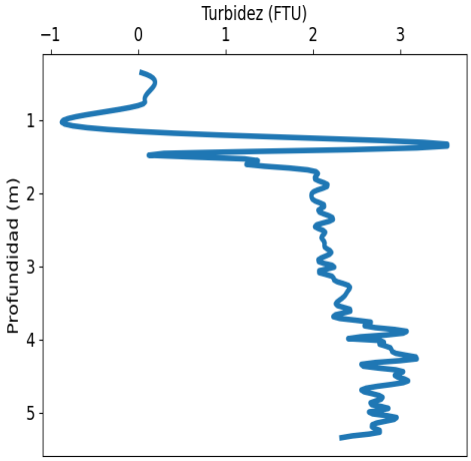
5.588	26.49	6.67	3.32	4.8	25.15	13.61	43.91
5.637	26.49	6.67	2.94	4.8	24.13	13.67	43.91
5.685	26.49	6.67	2.79	4.8	23.29	13.48	43.91
5.74	26.49	6.67	3.09	4.8	22.29	13.31	43.91
5.808	26.49	6.67	2.86	4.81	21.53	13.65	43.91
5.867	26.49	6.67	3.01	4.81	21.02	13.89	43.91
5.902	26.49	6.67	3.51	4.8	20.48	14.05	43.91
5.936	26.49	6.67	2.94	4.79	19.91	13.71	43.91
5.97	26.49	6.67	2.9	4.78	19.81	13.45	43.91
6.014	26.49	6.67	2.79	4.78	18.98	13.43	43.91
6.081	26.49	6.67	2.63	4.76	17.84	13.73	43.91
6.167	26.49	6.67	3.05	4.75	16.82	13.31	43.91
6.245	26.49	6.67	3.05	4.75	16.25	13.91	43.91
6.296	26.49	6.67	3.2	4.76	15.78	13.56	43.91
6.344	26.49	6.67	2.98	4.76	15.24	13.52	43.91
6.379	26.49	6.67	2.82	4.77	14.88	13.83	43.91
6.392	26.49	6.67	2.79	4.78	14.6	13.38	43.91
6.394	26.49	6.67	3.32	4.78	14.3	13.27	43.91
6.4	26.49	6.67	2.79	4.77	13.35	13.37	43.91
6.403	26.49	6.67	3.01	4.77	12.48	13.21	43.91
6.407	26.49	6.67	3.09	4.76	11.06	13.09	43.91
6.416	26.49	6.67	2.82	4.76	10.31	13.49	43.91
6.424	26.49	6.67	2.37	4.75	10.18	13.33	43.91
6.425	26.49	6.67	2.86	4.75	9.57	13.24	43.91
6.436	26.49	6.67	19.53	4.74	8.38	13.45	43.91

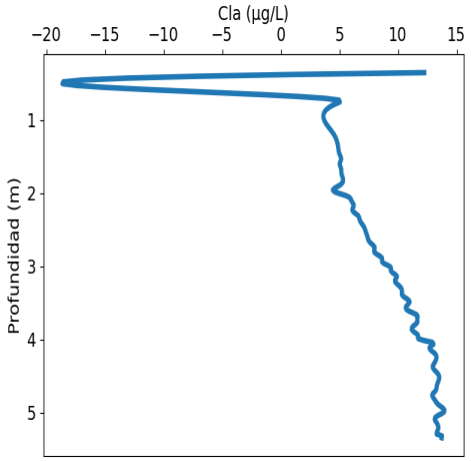
Nombre: CTD E04 - Punto 016 **Fecha: 20/09/2021** **Hora: 09:09:47**

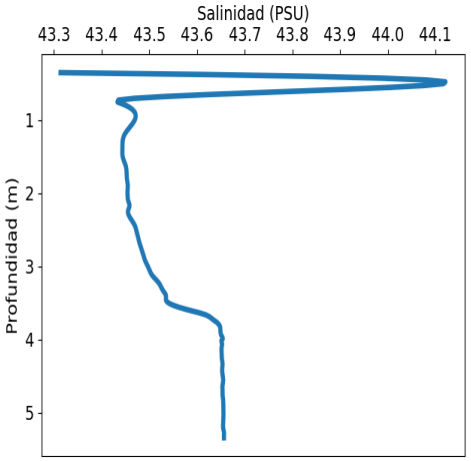


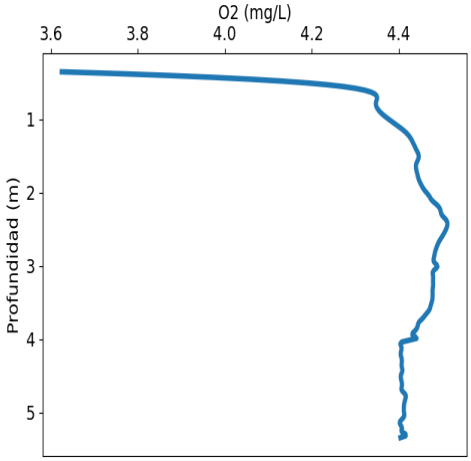


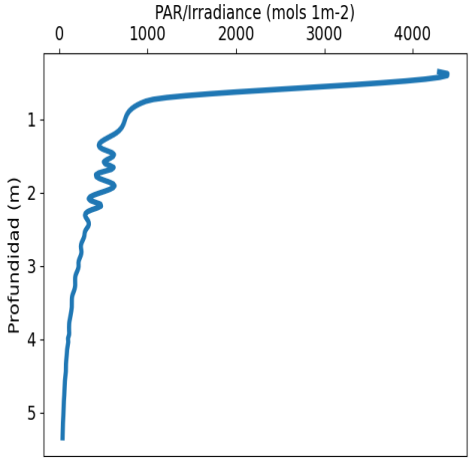












VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE							
	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m^3)	Salinity (PSU)
MÍNIMO	26.29	6.57	0.04	3.63	37.22	4.49	43.31
PROF (metros)	0.353	0.353	0.353	0.353	5.338	1.971	0.353
MÁXIMO	26.89	26.89	3.17	4.51	4366.9	13.9	43.66
PROF (metros)	0.731	3.539	4.268	2.373	0.368	4.946	4.888

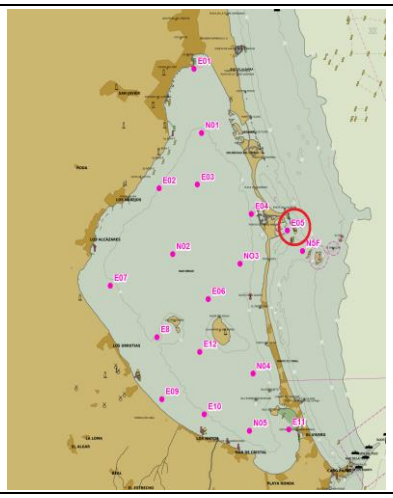
DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
CTD E04 - Punto 016	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0 - 1m	26.73	6.64	0.07	4.01	2668.76	6.83	43.42
1 - 2m	26.89	6.66	1.59	4.44	549.32	4.98	43.45
2 - 3m	26.86	6.66	2.11	4.49	305.84	7.15	43.47
3 - 4m	26.79	6.67	2.42	4.47	150.64	10.68	43.57
4 - 5m	26.75	6.67	2.81	4.41	73.01	13.13	43.65
5 - 6m	26.75	6.67	2.6	4.41	39.79	13.35	43.66

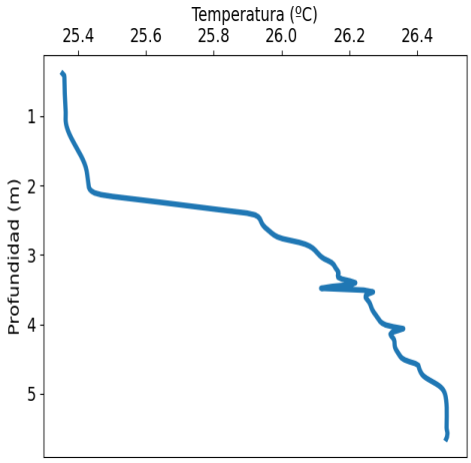
OBSERVACIONES GENERALES
CLOROFILA elevada en la(s) columna(s) de agua 0 - 1m, 1 - 2m, 2 - 3m, 3 - 4m, 4 - 5m, 5 - 6m con los valores 6.83, 4.98, 7.15, 10.68, 13.13, 13.35 respectivamente

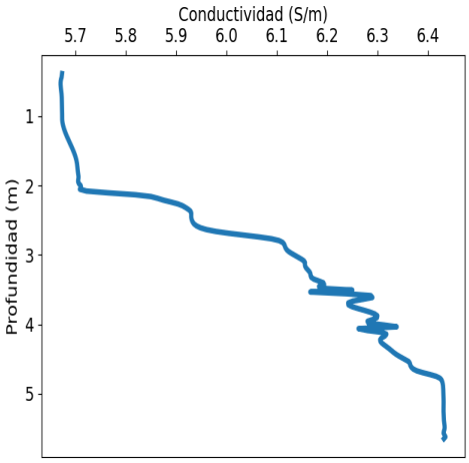
DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
Depth (m)	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0.353	26.29	6.57	0.04	3.63	4297.6	12.24	43.31
0.368	26.84	6.66	0.08	3.71	4366.9	5.18	43.5
0.731	26.89	6.66	0.08	4.35	1055.0	5.02	43.43
0.765	26.89	6.66	0.08	4.35	955.55	4.87	43.44
1.201	26.89	6.66	0.84	4.42	626.26	4.54	43.45
1.406	26.89	6.66	2.4	4.44	491.89	4.92	43.44
1.465	26.89	6.66	0.11	4.44	610.49	5.0	43.44
1.531	26.89	6.66	1.22	4.45	573.99	5.15	43.45
1.599	26.89	6.66	1.22	4.44	510.0	5.02	43.45
1.662	26.89	6.66	1.79	4.44	617.18	5.14	43.45
1.729	26.89	6.66	2.06	4.44	453.35	5.17	43.45
1.804	26.89	6.66	2.02	4.45	450.1	5.3	43.45
1.892	26.89	6.66	2.17	4.45	621.77	5.02	43.45
1.971	26.89	6.66	2.02	4.46	538.17	4.49	43.45
2.044	26.89	6.66	1.98	4.47	369.87	5.73	43.45
2.104	26.89	6.66	2.02	4.48	349.13	6.02	43.46
2.169	26.89	6.66	2.14	4.49	477.51	6.23	43.46
2.239	26.88	6.66	2.06	4.5	355.42	6.11	43.46
2.303	26.88	6.66	2.17	4.5	291.66	6.58	43.46
2.373	26.87	6.66	2.21	4.51	320.96	6.75	43.46
2.448	26.86	6.66	2.02	4.51	332.24	7.05	43.47
2.52	26.86	6.66	2.14	4.51	294.92	7.24	43.47
2.596	26.85	6.66	2.1	4.5	282.94	7.39	43.48
2.672	26.85	6.66	2.14	4.49	257.05	7.61	43.48
2.737	26.85	6.66	2.14	4.49	244.95	8.0	43.48
2.809	26.84	6.66	2.21	4.48	251.51	7.99	43.49
2.883	26.84	6.66	2.1	4.48	235.43	8.63	43.49
2.95	26.84	6.66	2.1	4.48	218.15	8.7	43.49
3.005	26.83	6.66	2.25	4.49	219.06	9.35	43.5
3.066	26.83	6.66	2.06	4.48	204.96	9.4	43.5
3.131	26.82	6.66	2.21	4.48	184.32	9.9	43.51
3.195	26.81	6.66	2.25	4.48	180.1	9.73	43.52
3.257	26.8	6.66	2.4	4.48	180.89	10.04	43.52
3.331	26.8	6.66	2.4	4.48	169.37	10.34	43.53

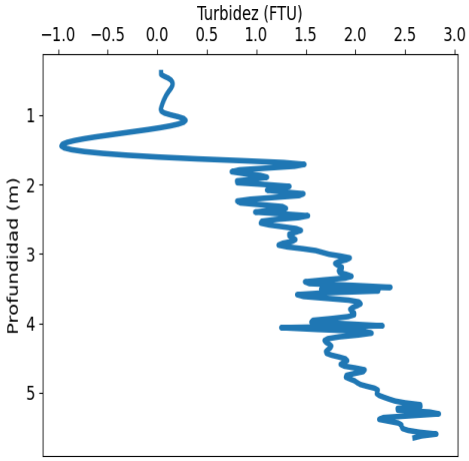
3.401	26.79	6.66	2.37	4.48	148.86	10.39	43.54
3.475	26.79	6.66	2.29	4.48	142.74	10.99	43.54
3.539	26.79	6.67	2.29	4.47	143.01	10.72	43.55
3.603	26.78	6.67	2.44	4.47	138.02	10.84	43.59
3.664	26.77	6.67	2.25	4.46	129.65	11.62	43.62
3.72	26.76	6.67	2.37	4.45	121.03	11.63	43.63
3.763	26.76	6.67	2.67	4.45	114.58	11.65	43.64
3.814	26.75	6.67	2.59	4.44	111.83	11.31	43.65
3.879	26.75	6.67	3.05	4.44	111.62	11.24	43.65
3.945	26.75	6.67	2.75	4.43	110.23	11.72	43.65
4.008	26.75	6.67	2.67	4.43	99.98	12.09	43.65
4.018	26.75	6.67	2.9	4.42	102.73	12.42	43.65
4.031	26.75	6.67	2.86	4.41	102.92	12.8	43.65
4.097	26.75	6.67	2.86	4.41	93.94	12.73	43.65
4.195	26.75	6.67	2.98	4.4	85.92	13.18	43.65
4.268	26.75	6.67	3.17	4.41	81.16	13.25	43.65
4.322	26.75	6.67	2.63	4.41	76.98	13.09	43.65
4.373	26.75	6.67	2.63	4.41	76.38	12.96	43.65
4.425	26.75	6.67	3.01	4.41	75.78	13.17	43.65
4.487	26.75	6.67	2.94	4.41	70.49	13.48	43.65
4.568	26.75	6.67	3.09	4.41	64.52	13.44	43.65
4.643	26.75	6.67	2.71	4.41	61.61	13.29	43.65
4.698	26.75	6.67	2.56	4.41	59.2	13.21	43.65
4.746	26.75	6.67	2.71	4.41	57.87	12.93	43.65
4.813	26.75	6.67	2.79	4.42	53.97	13.09	43.65
4.888	26.75	6.67	2.67	4.41	51.7	13.44	43.66
4.946	26.75	6.67	2.86	4.41	50.26	13.9	43.66
4.994	26.75	6.67	2.63	4.41	48.71	13.89	43.66
5.055	26.75	6.67	2.94	4.41	45.93	13.22	43.66
5.134	26.75	6.67	2.75	4.4	42.52	13.29	43.66
5.213	26.75	6.67	2.71	4.41	40.75	13.44	43.66
5.272	26.75	6.67	2.75	4.41	39.5	13.29	43.66
5.311	26.75	6.67	2.48	4.42	38.69	13.64	43.66
5.329	26.75	6.67	2.56	4.41	38.23	13.27	43.66
5.334	26.75	6.67	2.59	4.41	37.34	12.81	43.66
5.338	26.75	6.67	2.33	4.41	37.22	13.43	43.66
5.34	26.75	6.67	2.33	4.4	37.94	13.73	43.66

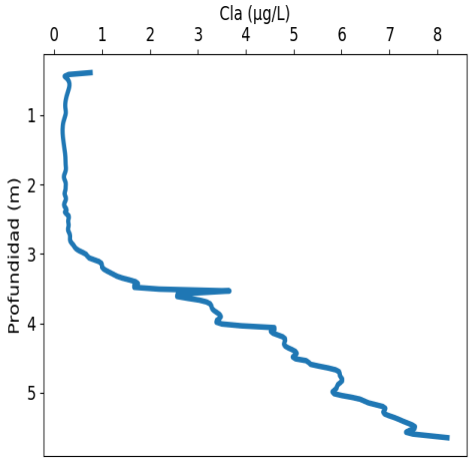
Nombre: CTD E05 - Punto 017 **Fecha: 20/09/2021** **Hora: 10:09:59**

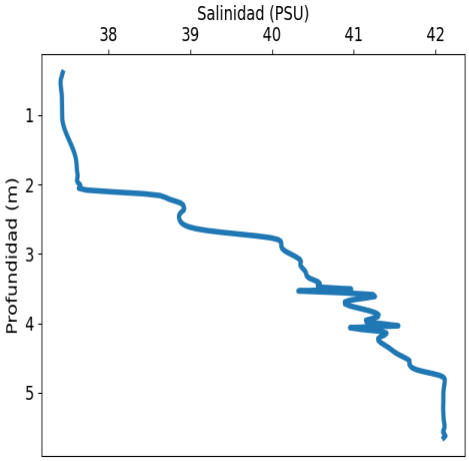


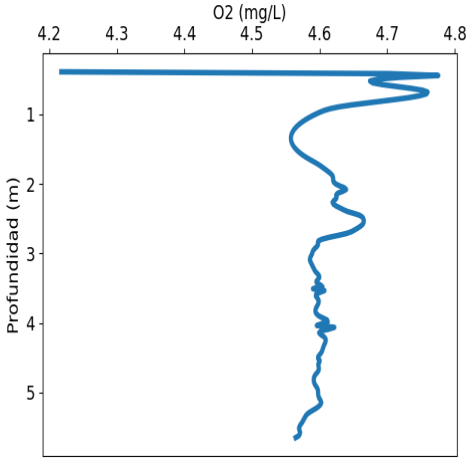


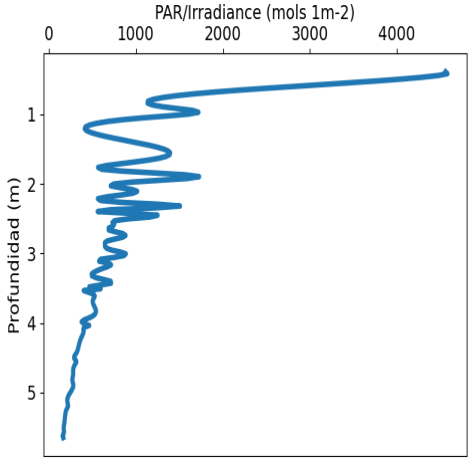












VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE							
	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m^3)	Salinity (PSU)
MÍNIMO	25.35	5.67	0.04	4.22	156.5	0.2	37.43
PROF (metros)	0.387	0.387	0.387	0.387	5.627	1.895	0.443
MÁXIMO	26.49	26.49	2.86	4.77	4585.8	8.21	42.11
PROF (metros)	5.148	4.823	5.292	0.443	0.412	5.647	4.823

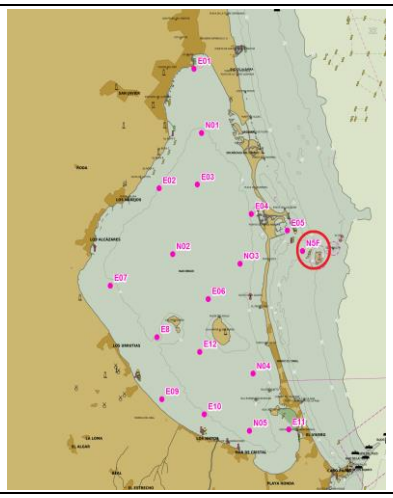
DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
CTD E05 - Punto 017	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0 - 1m	25.36	5.67	0.06	4.62	3334.81	0.34	37.44
1 - 2m	25.41	5.7	0.82	4.6	1083.12	0.23	37.59
2 - 3m	25.83	5.94	1.26	4.63	821.42	0.29	39.06
3 - 4m	26.2	6.2	1.83	4.59	591.66	1.91	40.65
4 - 5m	26.38	6.36	1.9	4.6	329.62	5.13	41.64
5 - 6m	26.49	6.43	2.47	4.58	183.79	7.26	42.1

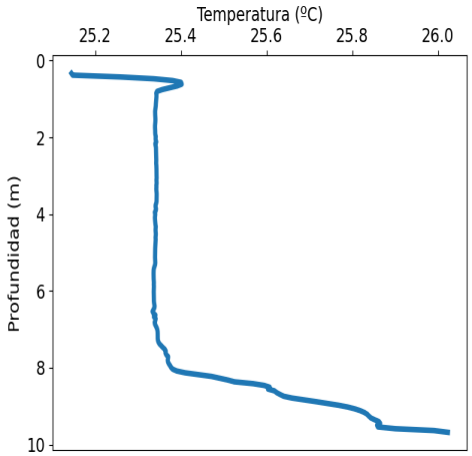
OBSERVACIONES GENERALES
CLOROFILA elevada en la(s) columna(s) de agua 4 - 5m, 5 - 6m con los valores 5.13, 7.26 respectivamente

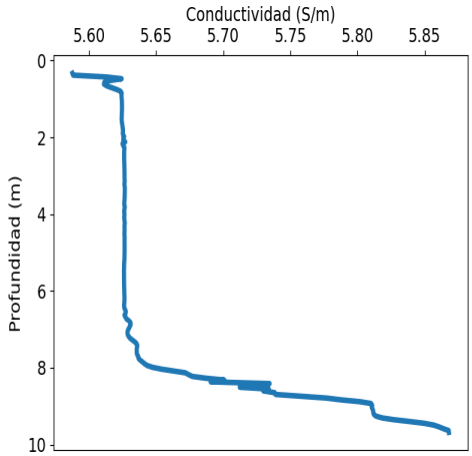
DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
Depth (m)	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0.387	25.35	5.67	0.04	4.22	4562.4	0.76	37.45
0.412	25.36	5.67	0.04	4.69	4585.8	0.32	37.44
0.414	25.36	5.67	0.04	4.71	4584.7	0.3	37.44
0.443	25.36	5.67	0.08	4.77	4460.0	0.22	37.43
0.659	25.36	5.67	0.11	4.76	2094.5	0.29	37.43
0.895	25.36	5.67	0.04	4.63	1340.3	0.23	37.44
0.971	25.36	5.67	0.08	4.6	1716.0	0.24	37.44
1.048	25.36	5.67	0.27	4.58	1085.5	0.21	37.44
1.635	25.41	5.7	0.5	4.58	1243.4	0.24	37.61
1.71	25.42	5.7	1.49	4.6	808.5	0.24	37.61
1.799	25.43	5.71	0.76	4.61	677.45	0.24	37.62
1.895	25.43	5.71	1.11	4.62	1727.2	0.2	37.63
1.972	25.43	5.71	0.8	4.62	956.66	0.24	37.63
2.026	25.43	5.71	1.33	4.63	708.6	0.24	37.66
2.08	25.44	5.72	1.11	4.64	961.32	0.23	37.75
2.135	25.47	5.82	1.49	4.63	953.12	0.22	38.47
2.196	25.57	5.87	1.07	4.63	605.84	0.25	38.72
2.264	25.68	5.9	0.84	4.62	832.65	0.22	38.88
2.324	25.78	5.92	1.3	4.63	1488.7	0.22	38.92
2.369	25.85	5.93	1.14	4.64	717.53	0.26	38.92
2.398	25.9	5.93	0.99	4.64	572.53	0.22	38.89
2.436	25.93	5.93	1.45	4.66	1158.8	0.29	38.87
2.509	25.94	5.93	1.14	4.67	845.88	0.29	38.87
2.592	25.95	5.94	1.18	4.66	749.31	0.3	38.95
2.654	25.96	5.97	1.45	4.65	676.82	0.29	39.16
2.71	25.98	6.03	1.33	4.64	840.6	0.32	39.57
2.769	26.01	6.09	1.37	4.61	836.9	0.33	40.0
2.814	26.05	6.11	1.37	4.6	678.55	0.34	40.1
2.87	26.08	6.12	1.22	4.6	641.98	0.4	40.11
2.942	26.1	6.12	1.56	4.59	694.94	0.49	40.14
3.01	26.11	6.14	1.75	4.59	886.63	0.68	40.24
3.06	26.13	6.15	1.95	4.59	724.04	0.74	40.32
3.095	26.14	6.16	1.87	4.59	556.57	0.89	40.35
3.139	26.15	6.16	1.79	4.59	687.73	0.99	40.35
3.198	26.16	6.16	1.87	4.59	650.82	1.0	40.37

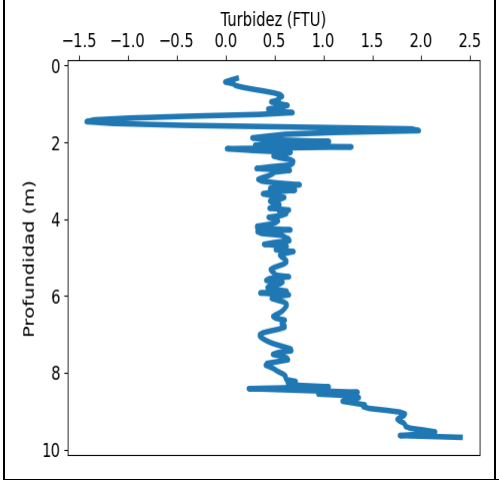
3.263	26.17	6.17	1.83	4.59	523.65	1.15	40.41
3.345	26.18	6.17	1.91	4.6	533.45	1.41	40.45
3.438	26.19	6.19	1.68	4.6	676.19	1.73	40.58
3.501	26.2	6.24	1.87	4.59	546.85	2.01	40.89
3.509	26.26	6.25	1.64	4.59	592.1	2.4	40.92
3.513	26.27	6.22	1.83	4.6	540.17	2.8	40.71
3.556	26.26	6.23	1.75	4.6	448.33	3.09	40.82
3.656	26.25	6.26	1.87	4.6	506.93	2.96	41.0
3.792	26.27	6.27	1.95	4.59	532.22	3.3	41.1
3.92	26.29	6.29	1.83	4.6	469.28	3.47	41.26
4.007	26.31	6.31	1.91	4.6	399.92	3.49	41.36
4.043	26.34	6.31	1.95	4.6	448.33	4.16	41.36
4.046	26.35	6.3	1.75	4.61	437.66	4.27	41.25
4.093	26.34	6.29	1.75	4.61	394.86	4.57	41.16
4.194	26.33	6.31	1.83	4.61	374.97	4.77	41.32
4.322	26.33	6.32	1.75	4.61	340.58	4.81	41.39
4.439	26.35	6.34	1.72	4.6	308.92	5.06	41.53
4.516	26.36	6.36	1.91	4.6	291.73	5.08	41.66
4.548	26.38	6.36	1.91	4.6	313.9	5.32	41.68
4.57	26.4	6.36	1.87	4.6	310.07	5.31	41.68
4.61	26.4	6.37	1.87	4.6	289.98	5.48	41.69
4.673	26.41	6.38	2.1	4.6	275.82	5.89	41.78
4.749	26.42	6.42	1.91	4.59	275.18	5.96	42.05
4.823	26.44	6.43	1.98	4.59	266.52	6.02	42.11
4.886	26.46	6.43	2.06	4.59	278.39	5.92	42.1
4.945	26.48	6.43	2.21	4.6	267.07	5.88	42.1
5.011	26.48	6.43	2.21	4.6	236.86	5.84	42.09
5.085	26.48	6.43	2.33	4.6	210.45	6.35	42.09
5.148	26.49	6.43	2.52	4.6	211.82	6.58	42.09
5.195	26.49	6.43	2.67	4.6	217.59	6.85	42.09
5.24	26.49	6.43	2.37	4.59	199.99	6.91	42.09
5.292	26.49	6.43	2.86	4.58	188.08	6.87	42.09
5.35	26.49	6.43	2.33	4.58	182.16	7.08	42.09
5.426	26.49	6.43	2.4	4.57	175.85	7.34	42.1
5.52	26.49	6.43	2.48	4.57	167.5	7.51	42.1
5.595	26.49	6.43	2.82	4.57	163.35	7.5	42.11
5.627	26.49	6.43	2.37	4.57	156.5	7.89	42.1
5.629	26.49	6.43	2.25	4.57	157.74	7.9	42.1
5.637	26.49	6.43	2.29	4.57	162.15	8.14	42.1
5.645	26.49	6.43	2.59	4.57	164.99	8.0	42.1
5.647	26.49	6.43	2.59	4.56	161.88	8.21	42.1

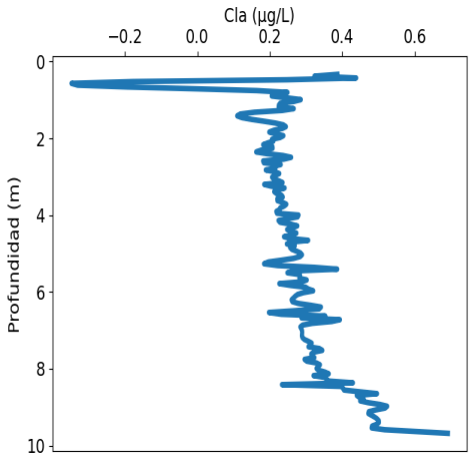
Nombre: CTD NF5 - Punto 018 **Fecha: 20/09/2021** **Hora: 10:09:40**

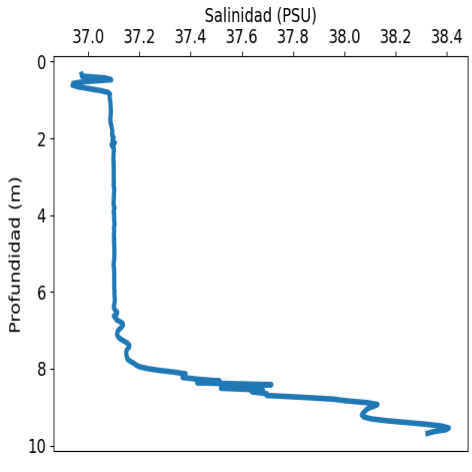


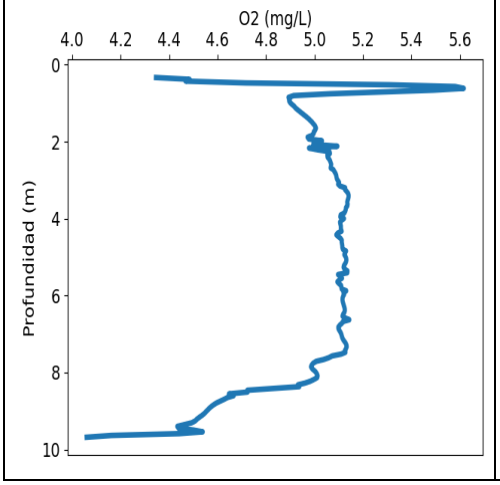


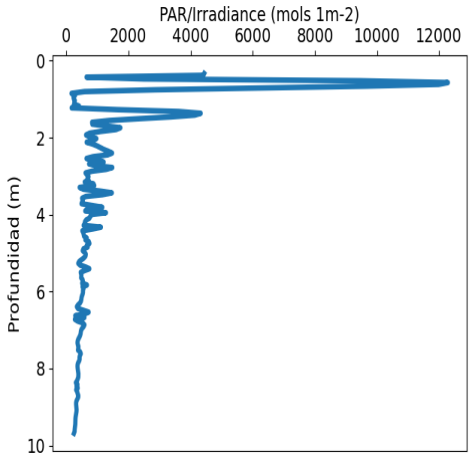












VALORACIÓN PRELIMINAR DE DATOS: NIVELES MÍNIMOS Y MÁXIMOS PARA CADA VARIABLE							
	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m^3)	Salinity (PSU)
MÍNIMO	25.08	5.59	0.04	4.06	229.19	0.16	36.97
PROF (metros)	0.358	0.333	0.335	9.657	0.95	2.344	0.333
MÁXIMO	26.02	26.02	2.4	5.14	4439.3	0.69	38.39
PROF (metros)	9.657	9.657	9.682	3.346	0.333	9.682	9.594

DATOS MEDIOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
CTD NF5 - Punto 018	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0 - 1m	25.25	5.61	0.25	4.66	2309.46	0.27	37.05
1 - 2m	25.34	5.62	0.68	4.96	811.99	0.24	37.09
2 - 3m	25.34	5.63	0.52	5.05	953.05	0.2	37.1
3 - 4m	25.34	5.63	0.53	5.12	761.01	0.22	37.1
4 - 5m	25.34	5.63	0.52	5.11	683.36	0.26	37.1
5 - 6m	25.34	5.63	0.49	5.12	532.06	0.28	37.1
6 - 7m	25.34	5.63	0.56	5.12	481.99	0.3	37.11
7 - 8m	25.36	5.64	0.52	5.07	404.88	0.32	37.15
8 - 9m	25.58	5.72	0.99	4.78	357.68	0.41	37.62
9 - 10m	25.9	5.84	1.95	4.36	285.77	0.54	38.24

OBSERVACIONES GENERALES

DATOS DETALLADOS PARA CADA VARIABLE EN TODA LA COLUMNA DE AGUA							
Depth (m)	Temp (°C)	Conductivity (S/m)	Turbidity (FTU)	Oxygen (mg/l)	PAR/Irradiance (mols-1m-2)	[Cla] (mg/m3)	Salinity (PSU)
0.333	25.14	5.59	0.11	4.35	4439.3	0.39	36.97
0.335	25.12	5.59	0.04	4.37	4310.6	0.32	37.01
0.358	25.08	5.59	0.08	4.37	4316.6	0.28	37.02
0.382	25.15	5.59	0.04	4.5	4345.7	0.32	36.97
0.471	25.33	5.63	0.08	4.67	1924.2	0.28	37.1
0.475	25.34	5.62	0.08	4.73	2702.8	0.23	37.09
0.815	25.34	5.62	0.57	4.9	294.65	0.25	37.08
0.87	25.34	5.62	0.53	4.9	270.94	0.19	37.08
0.911	25.34	5.62	0.53	4.89	260.59	0.22	37.08
0.95	25.34	5.62	0.46	4.9	229.19	0.25	37.08
1.0	25.34	5.62	0.57	4.9	246.55	0.29	37.08
1.069	25.34	5.62	0.61	4.91	277.81	0.24	37.09
1.139	25.34	5.62	0.42	4.92	265.65	0.22	37.09
1.2	25.34	5.62	0.53	4.94	360.98	0.24	37.09
1.251	25.34	5.62	0.65	4.95	543.56	0.27	37.09
1.275	25.34	5.62	0.3	4.95	1794.1	0.23	37.09
1.586	25.34	5.62	0.27	5.0	947.17	0.21	37.09
1.672	25.34	5.62	2.14	5.01	1022.9	0.24	37.09
1.745	25.34	5.63	1.07	5.0	1753.0	0.23	37.09
1.84	25.34	5.63	0.42	4.99	1080.7	0.2	37.09
1.938	25.34	5.63	0.5	4.98	639.46	0.24	37.09
2.027	25.34	5.63	0.5	4.99	981.36	0.2	37.09
2.072	25.34	5.63	0.38	5.0	852.76	0.21	37.09
2.073	25.34	5.63	0.5	5.01	837.1	0.21	37.1
2.135	25.34	5.63	0.61	5.03	724.88	0.18	37.1
2.235	25.34	5.63	0.53	5.04	1043.3	0.21	37.1
2.344	25.34	5.63	0.5	5.05	1320.6	0.16	37.1
2.441	25.34	5.63	0.65	5.06	1372.4	0.23	37.1
2.539	25.34	5.63	0.69	5.07	643.62	0.24	37.1
2.63	25.34	5.63	0.5	5.07	1225.1	0.18	37.1
2.689	25.34	5.63	0.38	5.07	671.2	0.22	37.1
2.717	25.34	5.63	0.72	5.08	723.2	0.17	37.1

2.73	25.34	5.63	0.65	5.08	979.77	0.21	37.1
2.782	25.34	5.63	0.5	5.08	1489.4	0.21	37.1
2.886	25.34	5.63	0.42	5.09	716.7	0.22	37.1
2.994	25.34	5.63	0.34	5.09	714.37	0.21	37.1
3.083	25.34	5.63	0.65	5.1	684.39	0.22	37.1
3.15	25.34	5.63	0.61	5.1	609.22	0.24	37.1
3.192	25.34	5.63	0.3	5.13	659.78	0.2	37.1
3.199	25.34	5.63	0.46	5.13	880.89	0.18	37.1
3.257	25.34	5.63	0.65	5.13	731.29	0.22	37.1
3.346	25.34	5.63	0.38	5.14	607.39	0.22	37.1
3.447	25.34	5.63	0.61	5.14	1463.1	0.22	37.1
3.522	25.34	5.63	0.46	5.14	674.31	0.24	37.1
3.585	25.34	5.63	0.5	5.14	512.13	0.22	37.1
3.659	25.34	5.63	0.53	5.14	523.9	0.23	37.1
3.719	25.34	5.63	0.46	5.13	497.16	0.25	37.1
3.757	25.34	5.63	0.65	5.13	753.66	0.24	37.1
3.8	25.34	5.63	0.53	5.13	1230.2	0.23	37.1
3.841	25.34	5.63	0.65	5.12	721.2	0.23	37.1
3.875	25.34	5.63	0.57	5.11	736.57	0.21	37.1
3.903	25.34	5.63	0.57	5.11	618.47	0.22	37.1
3.911	25.34	5.63	0.53	5.12	591.55	0.23	37.1
3.916	25.34	5.63	0.5	5.11	847.05	0.21	37.1
3.961	25.34	5.63	0.46	5.11	1116.9	0.24	37.1
4.056	25.34	5.63	0.53	5.11	781.59	0.27	37.1
4.162	25.34	5.63	0.38	5.11	606.4	0.22	37.1
4.25	25.34	5.63	0.42	5.11	585.41	0.27	37.1
4.302	25.34	5.63	0.65	5.11	728.25	0.27	37.1
4.328	25.34	5.63	0.3	5.11	1133.3	0.26	37.1
4.381	25.34	5.63	0.42	5.09	749.66	0.25	37.1
4.478	25.34	5.63	0.61	5.1	558.12	0.27	37.1
4.564	25.34	5.63	0.65	5.11	578.26	0.24	37.1
4.608	25.34	5.63	0.5	5.11	659.78	0.26	37.1
4.64	25.34	5.63	0.34	5.11	612.48	0.3	37.1
4.683	25.34	5.63	0.57	5.11	671.82	0.28	37.1
4.736	25.34	5.63	0.57	5.12	766.35	0.24	37.1
4.791	25.34	5.63	0.5	5.12	659.78	0.27	37.1
4.838	25.34	5.63	0.69	5.13	694.46	0.26	37.1
4.89	25.34	5.63	0.61	5.12	551.43	0.26	37.1
4.986	25.34	5.63	0.57	5.13	596.64	0.28	37.1
5.148	25.34	5.63	0.61	5.13	532.22	0.25	37.1
5.324	25.34	5.63	0.46	5.13	477.51	0.24	37.1
5.439	25.34	5.63	0.5	5.11	675.88	0.32	37.1
5.453	25.34	5.63	0.5	5.1	595.68	0.27	37.1
5.503	25.34	5.63	0.65	5.11	463.01	0.25	37.1
5.564	25.34	5.63	0.38	5.11	489.5	0.29	37.1
5.637	25.34	5.63	0.57	5.09	476.62	0.28	37.1
5.729	25.34	5.63	0.46	5.11	540.8	0.29	37.1
5.81	25.34	5.63	0.46	5.11	570.41	0.23	37.1
5.869	25.34	5.63	0.61	5.13	615.46	0.31	37.1
5.89	25.34	5.63	0.46	5.13	444.71	0.28	37.1
5.895	25.34	5.63	0.3	5.13	484.76	0.28	37.1
5.928	25.34	5.63	0.42	5.12	550.28	0.31	37.1
6.006	25.34	5.63	0.53	5.12	539.17	0.3	37.1
6.139	25.34	5.63	0.57	5.12	494.97	0.27	37.1
6.303	25.34	5.63	0.61	5.12	435.23	0.28	37.1
6.463	25.34	5.63	0.53	5.12	442.76	0.31	37.1
6.594	25.34	5.63	0.53	5.13	461.19	0.28	37.11
6.636	25.34	5.63	0.61	5.14	457.15	0.31	37.1

6.637	25.34	5.63	0.61	5.14	488.03	0.3	37.1
6.682	25.34	5.63	0.57	5.12	505.88	0.31	37.11
6.8	25.34	5.63	0.61	5.1	489.73	0.33	37.13
6.959	25.34	5.63	0.38	5.11	505.76	0.29	37.12
7.114	25.35	5.63	0.38	5.12	456.41	0.29	37.11
7.25	25.35	5.63	0.5	5.13	380.92	0.3	37.13
7.365	25.35	5.64	0.65	5.13	366.04	0.32	37.16
7.455	25.36	5.64	0.61	5.13	393.31	0.32	37.16
7.512	25.36	5.64	0.46	5.12	374.53	0.35	37.15
7.536	25.36	5.64	0.53	5.09	389.49	0.33	37.15
7.572	25.36	5.64	0.57	5.07	453.45	0.32	37.15
7.648	25.36	5.64	0.65	5.05	447.09	0.31	37.15
7.709	25.37	5.64	0.53	5.01	424.17	0.32	37.15
7.757	25.37	5.64	0.42	4.99	431.11	0.3	37.15
7.854	25.37	5.64	0.46	4.99	379.6	0.33	37.18
7.967	25.38	5.65	0.53	5.0	362.41	0.33	37.21
8.075	25.39	5.66	0.61	5.01	380.48	0.35	37.32
8.147	25.42	5.67	0.61	5.01	390.13	0.35	37.38
8.198	25.46	5.67	0.65	4.99	386.89	0.32	37.36
8.238	25.48	5.68	0.72	4.98	384.74	0.37	37.38
8.283	25.49	5.69	0.61	4.95	359.4	0.35	37.45
8.342	25.52	5.7	0.84	4.93	331.39	0.39	37.5
8.396	25.55	5.71	0.76	4.9	317.12	0.36	37.52
8.434	25.6	5.71	0.88	4.81	407.6	0.34	37.5
8.438	25.6	5.71	0.92	4.78	374.27	0.41	37.48
8.439	25.59	5.71	0.69	4.75	343.91	0.41	37.55
8.461	25.6	5.72	0.84	4.73	333.47	0.4	37.55
8.515	25.6	5.72	1.14	4.69	343.99	0.41	37.6
8.576	25.61	5.73	1.14	4.66	338.14	0.41	37.64
8.64	25.62	5.74	1.37	4.65	360.23	0.5	37.69
8.705	25.63	5.74	1.22	4.62	388.95	0.43	37.71
8.761	25.65	5.77	1.22	4.6	377.85	0.46	37.9
8.824	25.68	5.78	1.41	4.59	336.34	0.45	37.99
8.903	25.73	5.81	1.41	4.57	315.87	0.49	38.12
8.999	25.78	5.81	1.72	4.56	325.23	0.52	38.1
9.105	25.82	5.81	1.83	4.54	329.71	0.48	38.08
9.215	25.84	5.81	1.75	4.51	307.49	0.48	38.07
9.325	25.85	5.82	1.83	4.48	294.31	0.5	38.13
9.454	25.86	5.85	1.91	4.45	289.24	0.49	38.33
9.594	25.91	5.86	2.02	4.41	269.25	0.53	38.39
9.657	26.02	5.87	1.87	4.06	263.45	0.65	38.33
9.682	26.02	5.87	2.4	4.06	246.95	0.69	38.32