



Universitat d'Alacant
Universidad de Alicante

Departament de Ciències del Mar i Biologia Aplicada
Departamento de Ciencias del Mar y Biología Aplicada

PROGRAMA DE VIGILANCIA AMBIENTAL DEL VERTIDO DE LA IDAM DEL NUEVO CANAL DE ALICANTE:

Control de salinidad del medio receptor. Abril-Junio de 2018

VALORACIÓN: La salinidad durante el mes de junio ha vuelto a los niveles establecidos después de haberse producido superaciones los meses de abril y mayo. Se observa, además, la formación de la termoclina estacional por lo que no es previsible que se vuelvan a producir superaciones en los próximos meses. No es necesario, por tanto, mantener los niveles de dilución actuales y se podrían rebajar.

Este informe ha sido realizado bajo mi dirección, y para que conste a los efectos oportunos, firmo el presente escrito

En Alicante a 5 de junio de 2018

Fdo: Dr. José Luis Sánchez Lizaso

1.- Localización de los sensores:

En la figura 1 se indica la posición de los sensores de registro de salinidad y temperatura

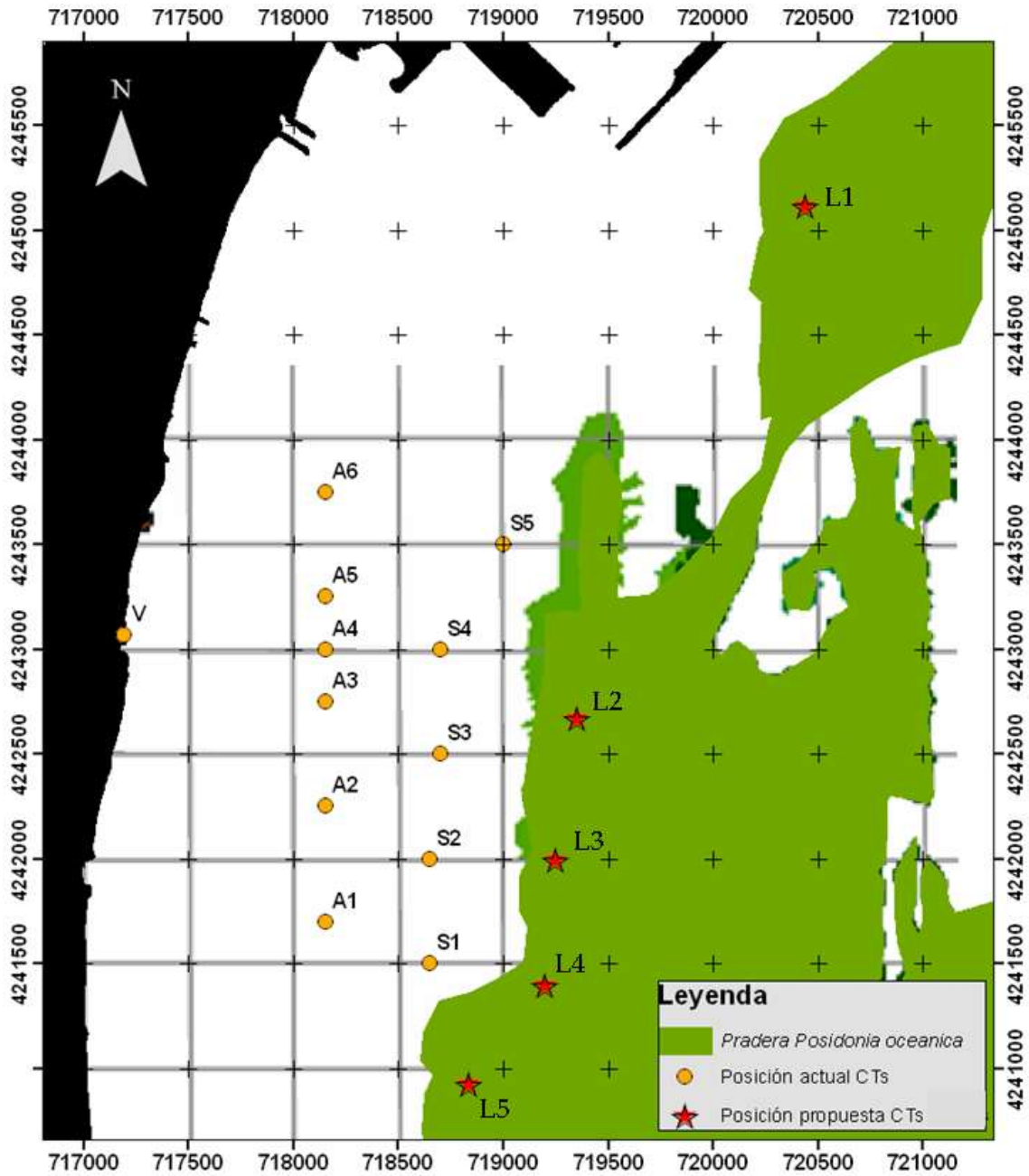


Figura 1: Posición de los sensores.

Mediciones de salinidad y temperatura en el medio receptor

***Abril:**

- Salinidades (ups)

Localidad	Media	Máximo	Mínimo	% > 38.5	% > 40
1 (Control Puerto)	38.02	38.25	37.77	0.00	0.00
2 (Desaladora)	38.19	38.94	37.45	26.00	0.00
3 (Desaladora Sur)	38.42	38.99	37.51	48.50	0.00
4 (Urbanova Norte)	38.31	38.88	37.38	32.00	0.00
5 (Urbanova)	38.44	38.77	37.84	52.1	0.00
Vertido	41.46	64.56	37.09	% > 49	1

- Temperaturas (° C)

Punto	Media	Máximo	Mínimo
1 (Control Puerto)	15.14	16.85	13.71
2 (Desaladora)	15.46	17.56	13.85
3 (Desaladora Sur)	15.65	17.49	13.98
4 (Urbanova Norte)	15.49	17.39	13.94
5 (Urbanova)	15.59	17.35	14.18
Vertido	17.05	20.16	14.64

*** Mayo:**

- Salinidades (ups)

Localidad	Media	Máximo	Mínimo	% > 38.5	% > 40
1 (Control Puerto)	38.24	38.45	37.80	0.0	0.0
2 (Desaladora)	38.46	39.14	37.63	45.7	0.0
3 (Desaladora Sur)	38.30	38.81	37.51	32.4	0.0
4 (Urbanova Norte)	38.13	38.83	37.00	12.7	0.0
5 (Urbanova)	38.20	38.61	37.64	7.7	0.0
Vertido	42.33	65.68	37.35	% > 49	0.2

- Temperaturas (° C)

Punto	Media	Máximo	Mínimo
1 (Control Puerto)	17.44	20.77	15.81
2 (Desaladora)	18.37	21.56	16.31
3 (Desaladora Sur)	18.64	21.50	16.73
4 (Urbanova Norte)	18.42	21.79	16.60
5 (Urbanova)	18.74	21.53	17.33
Vertido	20.50	23.26	17.52

*** Junio:**

- Salinidades (ups)

Localidad	Media	Máximo	Mínimo	% > 38.5	% > 40
1 (Control Puerto)	37.80	38.08	37.50	0.00	0.00
2 (Desaladora)	37.96	38.43	37.60	0.00	0.00
3 (Desaladora Sur)	37.45	38.68	36.54	2.00	0.00
4 (Urbanova Norte)	37.73	38.35	37.02	0.00	0.00
5 (Urbanova)	37.84	38.23	37.17	0.00	0.00
Vertido	40.66	65.87	35.51	% > 49	0.20

- Temperaturas (° C)

Punto	Media	Máximo	Mínimo
1 (Control Puerto)	18.23	21.81	15.69
2 (Desaladora)	18.41	21.44	15.83
3 (Desaladora Sur)	18.87	21.36	16.09
4 (Urbanova Norte)	18.95	21.57	16.25
5 (Urbanova)	19.25	21.64	16.70
Vertido	23.73	27.79	21.05

Régimen de funcionamiento de las desalinizadoras

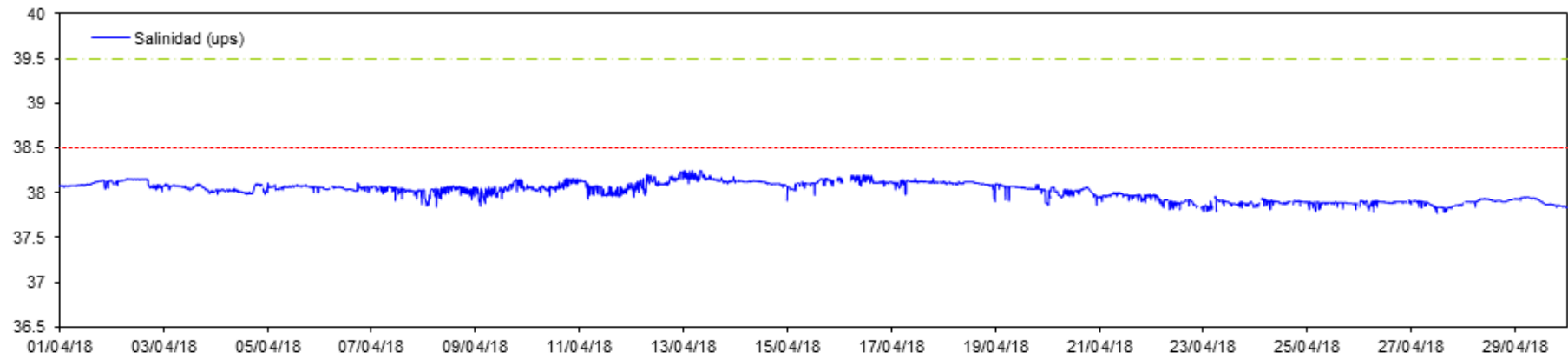
	Producción Alicante I (m ³ /día)	Producción Alicante II (m ³ /día)	Rechazo Alicante I (m ³ /día)	Rechazo Alicante II (m ³ /día)	CAUDAL vertido (m ³ /h)	CAUDAL Dilución (m ³ /h)	RELACIÓN de dilución
01/04/2018	49.535	40.657,00	64.757	57.707,00	5.353,6	9.500,0	2
02/04/2018	52.073	39.579,00	68.779	50.635,00	4.728,5	9.500,0	2
03/04/2018	49.600	40.579,00	64.848	53.254,00	4.722,0	9.500,0	2
04/04/2018	45.658	40.788,00	60.074	57.807,00	4.773,8	9.500,0	2
05/04/2018	42.455	39.609,00	56.765	49.829,00	4.806,0	9.500,0	2
06/04/2018	49.597	38.704,00	65.515	50.444,00	4.884,2	9.500,0	2
07/04/2018	50.264	44.336,00	66.776	53.995,00	4.892,1	9.500,0	2
08/04/2018	49.160	36.526,00	63.416	53.789,00	5.029,1	9.500,0	2
09/04/2018	51.174	41.267,00	66.910	52.274,00	4.970,1	9.500,0	2
10/04/2018	51.883	38.666,00	67.009	51.926,00	4.894,7	9.500,0	2
11/04/2018	49.485	42.374,00	65.547	54.050,00	4.914,9	9.500,0	2
12/04/2018	50.305	39.031,00	63.907	52.705,00	4.871,4	9.500,0	2
13/04/2018	50.556	40.612,00	64.208	51.482,00	4.818,5	9.500,0	2
14/04/2018	49.531	41.377,00	64.161	51.205,00	4.902,3	9.500,0	2
15/04/2018	51.807	39.155,00	66.449	52.649,00	4.795,1	9.646,7	2
16/04/2018	48.778	41.059,00	62.434	53.168,00	4.982,4	9.536,7	2
17/04/2018	51.822	44.909,00	66.410	59.535,00	5.237,4	9.637,5	2
18/04/2018	51.225	51.063,00	66.163	65.775,00	5.365,8	13.511,7	3
19/04/2018	48.872	47.048,00	63.004	63.178,00	5.106,8	16.720,0	3
20/04/2018	45.806	40.187,00	59.386	51.148,00	5.054,4	16.720,0	3
21/04/2018	54.294	41.680,00	70.158	54.028,00	4.943,8	16.023,3	3
22/04/2018	51.015	40.675,00	64.623	53.579,00	4.872,5	16.720,0	3
23/04/2018	49.438	45.103,00	63.360	56.367,00	5.064,4	16.720,0	3
24/04/2018	49.686	51.808,00	65.178	67.431,00	5.504,5	16.720,0	3
25/04/2018	50.515	44.367,00	64.677	57.593,00	5.072,4	16.720,0	3
26/04/2018	50.052	37.220,00	64.144	50.321,00	4.771,5	13.236,7	3
27/04/2018	50.069	43.374,00	64.195	56.012,00	5.091,5	16.720,0	3
28/04/2018	52.233	29.321,00	66.183	36.542,00	4.229,9	16.720,0	4
29/04/2018	49.617	20.037,00	64.975	26.388,00	3.695,9	16.720,0	5
30/04/2018	49.239	21.738,00	62.313	26.496,00	3.870,0	16.720,0	4

	Producción Alicante I (m³/día)	Producción Alicante II (m³/día)	Rechazo Alicante I (m³/día)	Rechazo Alicante II (m³/día)	CAUDAL vertido (m³/h)	CAUDAL Dilución (m³/h)	RELACIÓN de dilución
01/05/2018	51.017	19.959,00	66.383	26.414,00	3.783,7	16.720	4
02/05/2018	50.254	25.641,00	64.394	34.152,00	4.182,8	16.720	4
03/05/2018	51.272	30.951,00	66.236	37.786,00	4.267,6	16.720	4
04/05/2018	49.353	30.388,00	64.636	41.194,00	4.480,5	16.720	4
05/05/2018	51.054	30.359,00	66.337	39.186,00	4.302,9	16.720	4
06/05/2018	49.692	33.865,00	64.083	45.053,00	4.521,3	16.720	4
07/05/2018	48.954	48.663,00	63.458	63.328,00	5.301,7	16.720	3
08/05/2018	49.255	49.307,00	63.913	64.846,00	5.374,0	15.630	3
09/05/2018	49.735	7.197,00	64.129	5.826,00	2.948,8	8.000	3
10/05/2018	50.406	3,00	64.946	2.367,00	2.785,5	8.114	3
11/05/2018	49.999	19.776,00	64.485	26.464,00	3.825,4	16.720	4
12/05/2018	51.003	20.513,00	65.345	25.588,00	3.768,9	16.720	4
13/05/2018	49.607	21.703,00	64.865	26.215,00	3.793,4	16.720	4
14/05/2018	49.693	32.370,00	64.827	35.354,00	4.208,8	16.720	4
15/05/2018	50.942	40.026,00	65.658	39.615,00	4.355,0	16.720	4
16/05/2018	50.338	38.085,00	64.906	32.874,00	4.077,7	16.720	4
17/05/2018	50.421	30.097,00	64.991	26.425,00	3.845,7	16.720	4
18/05/2018	51.609	32.310,00	65.871	25.889,00	3.744,8	16.720	4
19/05/2018	49.467	30.558,00	63.985	26.339,00	3.812,9	16.720	4
20/05/2018	49.925	31.321,00	65.171	26.433,00	3.807,7	16.720	4
21/05/2018	50.345	36.787,00	64.951	31.724,00	3.824,8	16.720	4
22/05/2018	47.037	41.095,00	60.070	40.568,00	4.392,7	16.720	4
23/05/2018	50.103	43.864,00	64.856	41.057,00	4.465,2	15.327	3
24/05/2018	50.386	21.185,00	66.108	21.082,00	3.556,1	11.860	3
25/05/2018	50.096	43.634,00	64.264	38.837,00	4.237,6	16.720	4
26/05/2018	47.928	41.268,00	62.865	43.211,00	4.566,4	16.720	4
27/05/2018	51.382	48.938,00	66.382	44.893,00	4.595,1	16.720	4
28/05/2018	50.463	50.128,00	65.389	51.948,00	4.840,0	16.720	3
29/05/2018	49.843	51.989,00	64.213	52.270,00	4.845,3	16.720	3
30/05/2018	49.368	52.325,00	64.018	55.760,00	5.061,2	16.720	3
31/05/2018	50.843	49.932,00	65.709	70.732,00	5.665,0	16.720	3

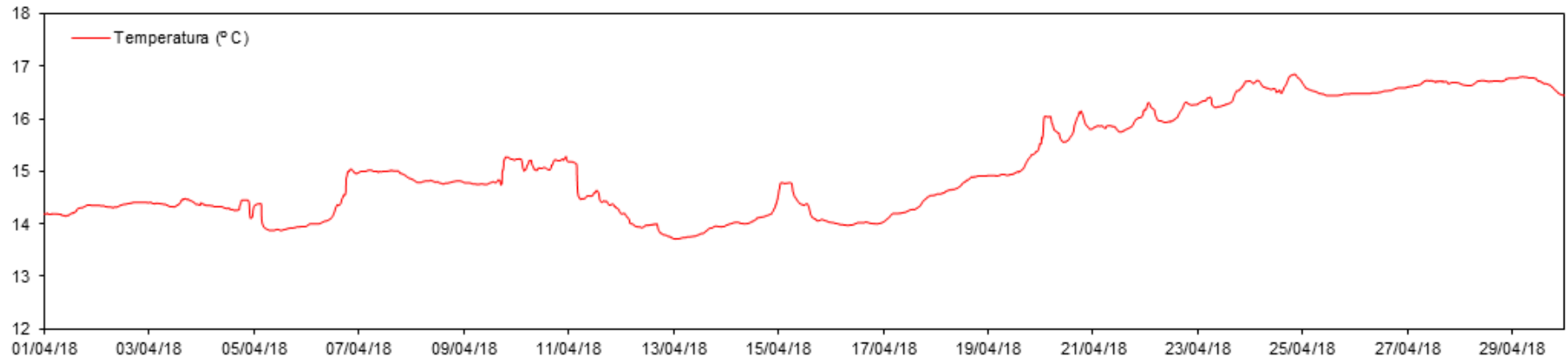
	Producción Alicante I (m³/día)	Producción Alicante II (m³/día)	Rechazo Alicante I (m³/día)	Rechazo Alicante II (m³/día)	CAUDAL vertido (m³/ h)	CAUDAL Dilución (m³/ h)	RELACIÓN de dilución
01/06/2018	51.140	39.880,00	65.228	54.273,00	4.997,9	16.720,0	3
02/06/2018	50.903	36.788,00	65.677	46.268,00	4.616,7	16.720,0	4
03/06/2018	49.428	26.476,00	64.532	32.915,00	4.061,1	16.046,7	4
04/06/2018	50.013	6.333,00	64.551	7.099,00	2.986,5	8.500,0	3
05/06/2018	50.096	3.704,00	64.576	8.252,00	3.095,4	10.021,7	3
06/06/2018	51.283	28.362,00	66.037	37.300,00	4.256,1	16.720,0	4
07/06/2018	50.121	32.887,00	64.847	40.381,00	4.433,9	16.720,0	4
08/06/2018	51.347	29.394,00	66.033	39.894,00	4.201,4	16.720,0	4
09/06/2018	46.837	31.955,00	60.939	38.935,00	4.364,8	16.720,0	4
10/06/2018	50.840	31.719,00	65.820	41.425,00	4.433,9	16.720,0	4
11/06/2018	50.983	33.133,00	64.989	42.942,00	4.435,2	16.428,3	4
12/06/2018	50.243	43.799,00	63.502	46.937,00	5.075,8	16.720,0	3
13/06/2018	51.164	50.356,00	64.883	62.290,00	5.315,5	16.720,0	3
14/06/2018	51.695	51.565,00	65.282	65.940,00	5.453,3	16.720,0	3
15/06/2018	52.176	43.479,00	64.940	54.203,00	4.940,9	16.720,0	3
16/06/2018	51.247	42.617,00	64.379	52.986,00	5.040,0	16.720,0	3
17/06/2018	54.153	40.368,00	67.975	52.511,00	4.706,4	16.720,0	4
18/06/2018	48.258	46.789,00	60.443	58.158,00	5.099,8	16.720,0	3
19/06/2018	51.564	55.586,00	64.238	66.843,00	5.512,2	16.720,0	3
20/06/2018	52.034	46.269,00	65.449	62.991,00	5.416,7	16.720,0	3
21/06/2018	53.363	48.646,00	67.010	60.926,00	5.117,2	16.720,0	3
22/06/2018	50.162	53.074,00	61.886	64.738,00	5.449,4	16.720,0	3
23/06/2018	52.461	54.897,00	66.048	65.848,00	5.408,6	16.720,0	3
24/06/2018	51.084	42.983,00	63.958	59.518,00	5.138,7	16.720,0	3
25/06/2018	51.942	42.695,00	63.810	52.893,00	4.974,6	16.720,0	3
26/06/2018	54.134	37.283,00	66.497	46.661,00	4.637,9	16.720,0	4
27/06/2018	52.291	31.837,00	64.648	38.578,00	4.240,3	16.720,0	4
28/06/2018	53.871	32.211,00	66.188	43.155,00	4.444,3	12.345,0	3
29/06/2018	51.873	18.437,00	63.508	22.464,00	3.671,8	8.573,3	2
30/06/2018	53.447	0	65.658	0	2.812,1	8.000,0	3

* Datos mensuales (Abril):

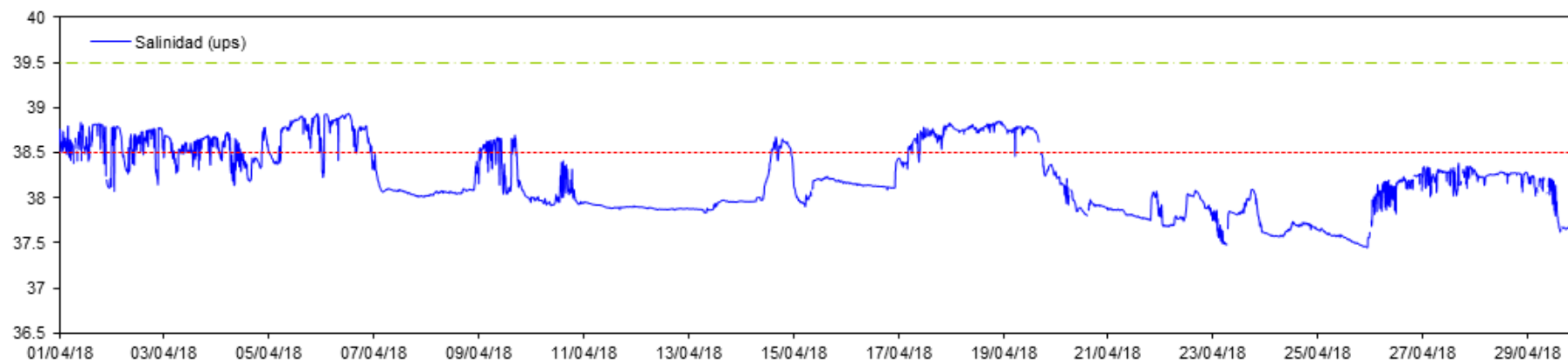
Datos CT Puerto - 16 m



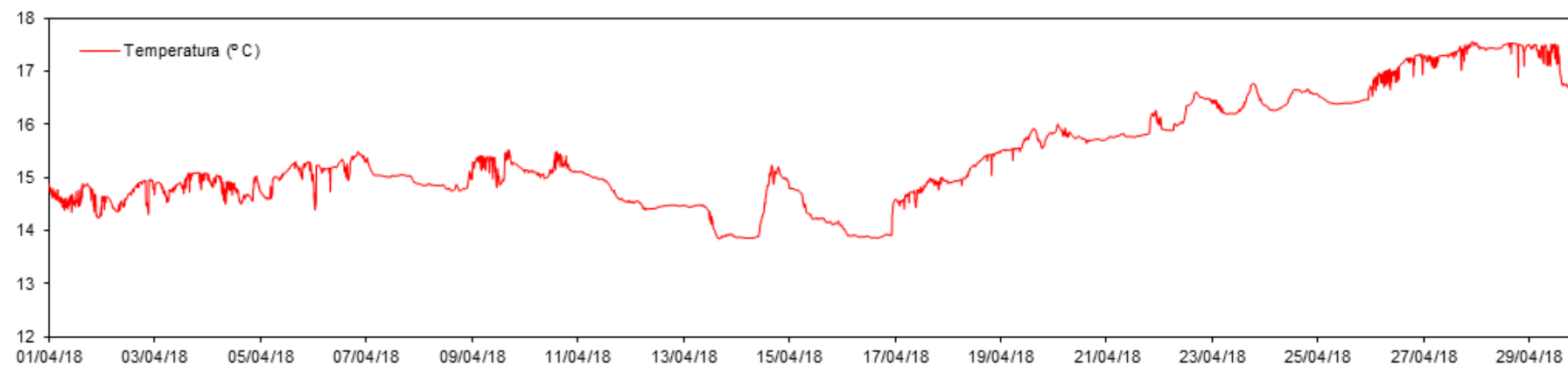
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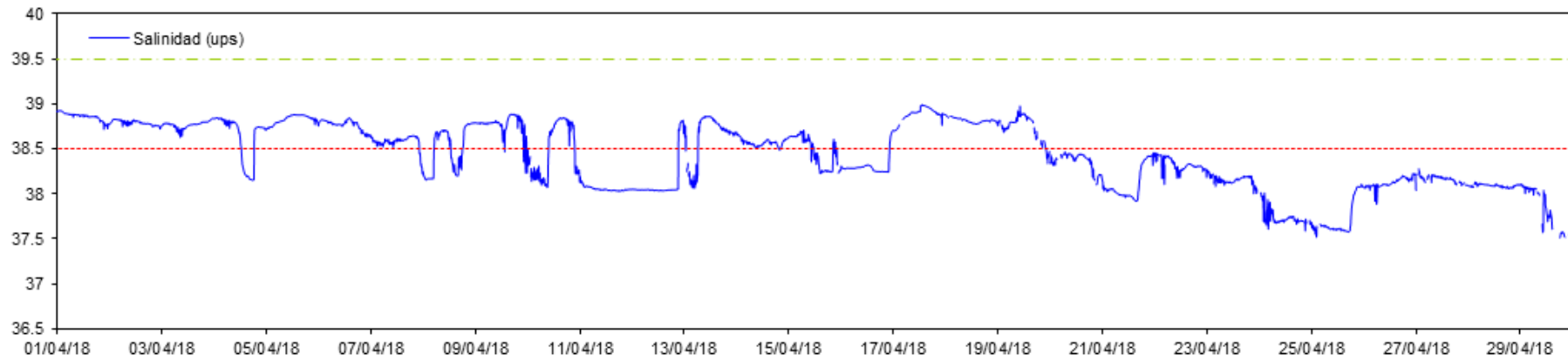
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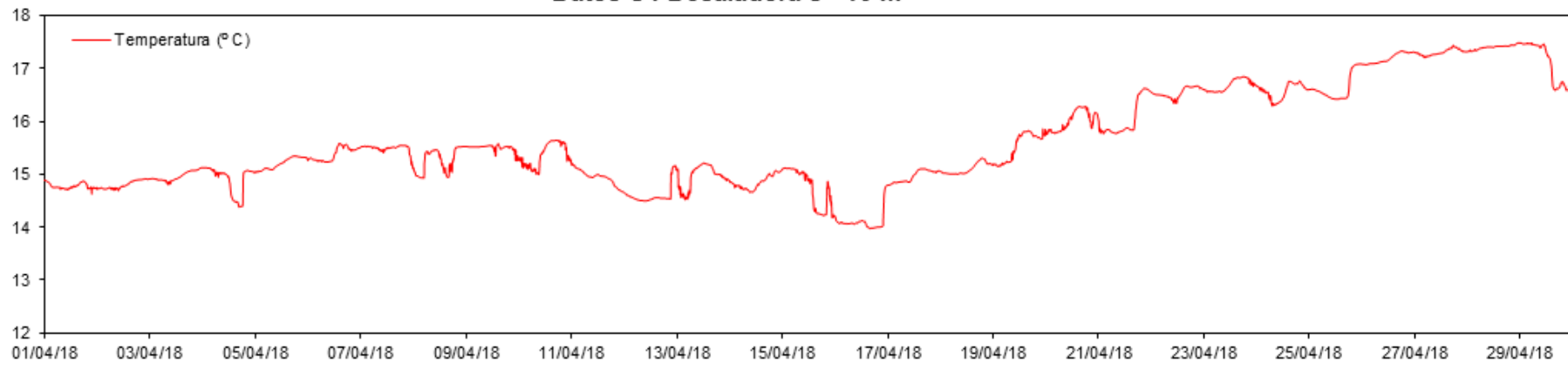
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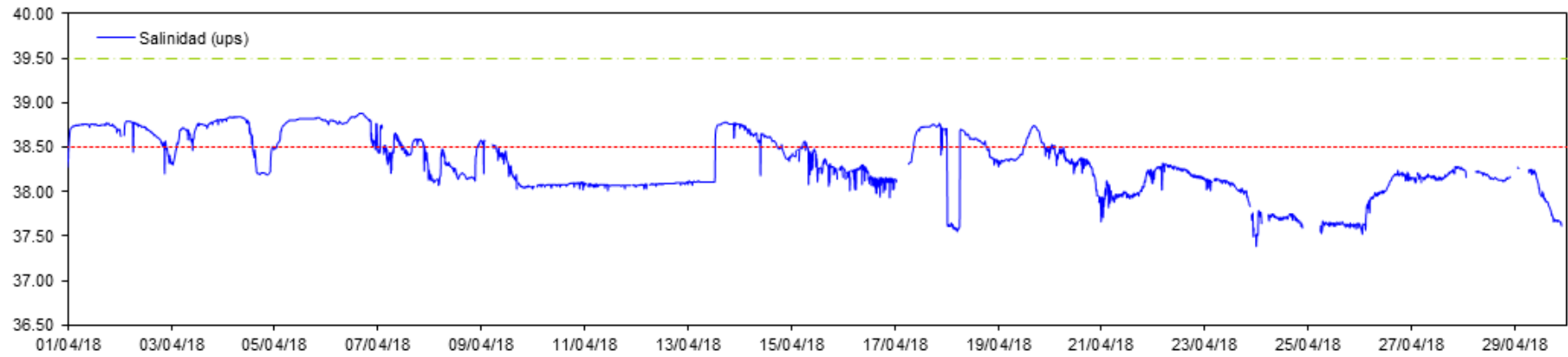
Datos CT Desaladora S - 16 m



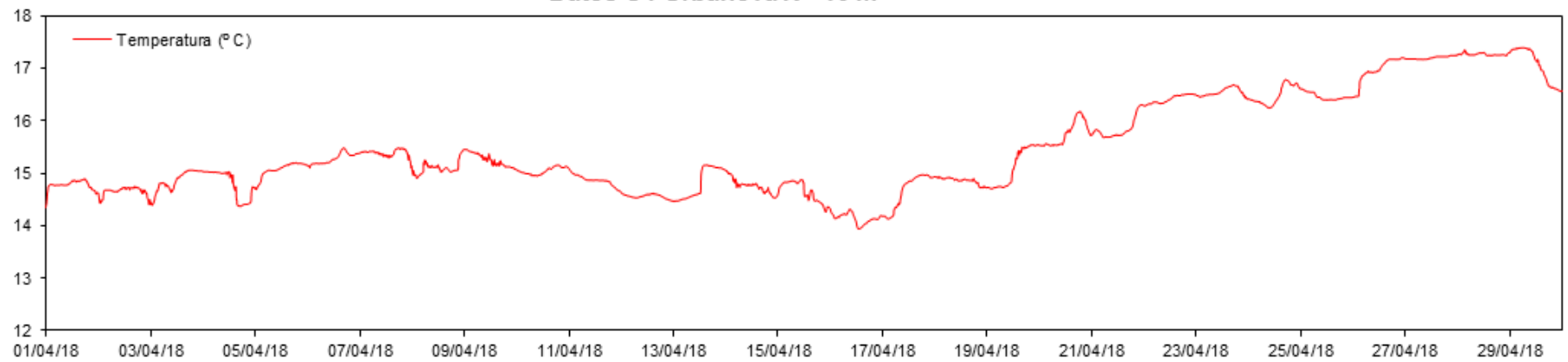
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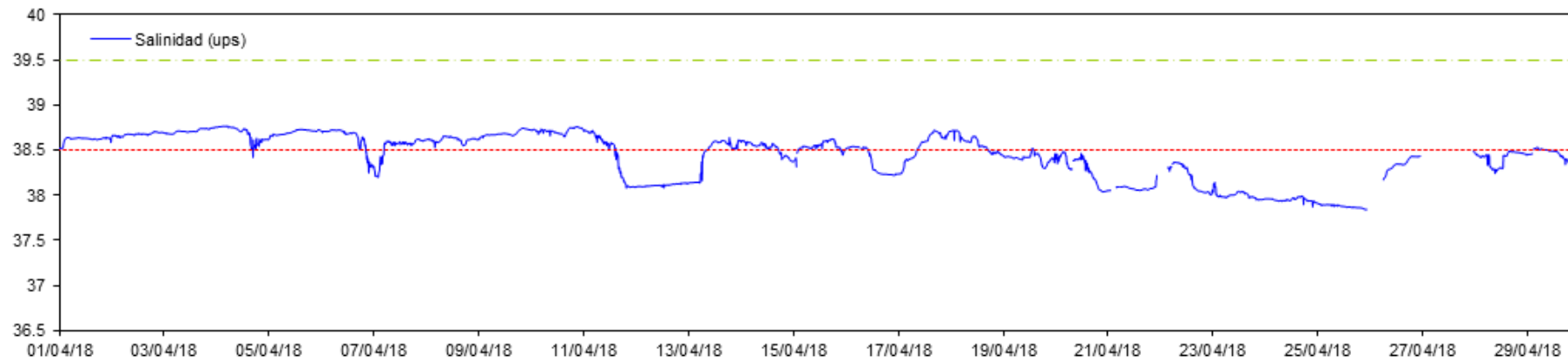
Datos CT Urbanova N - 16 m



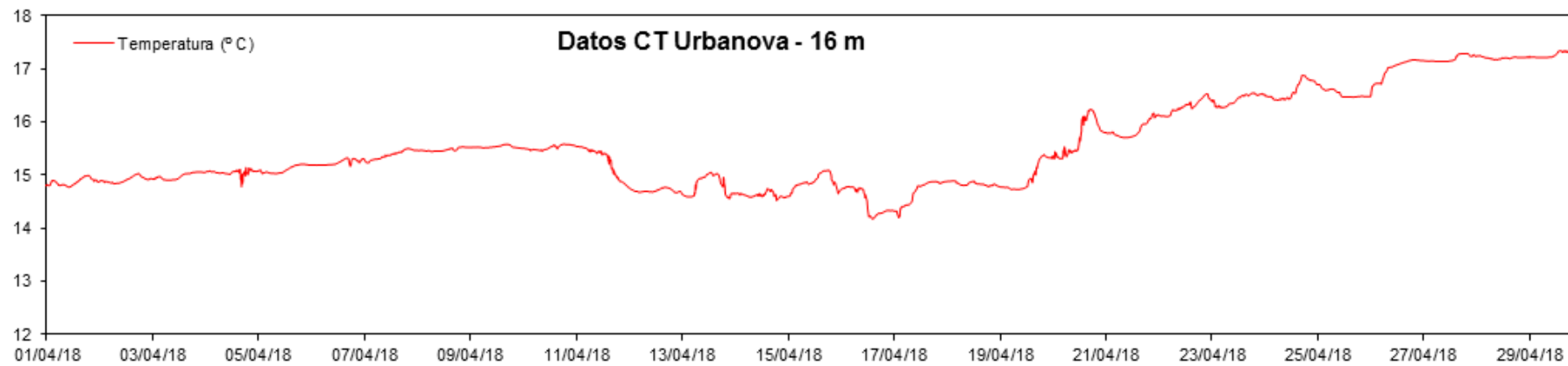
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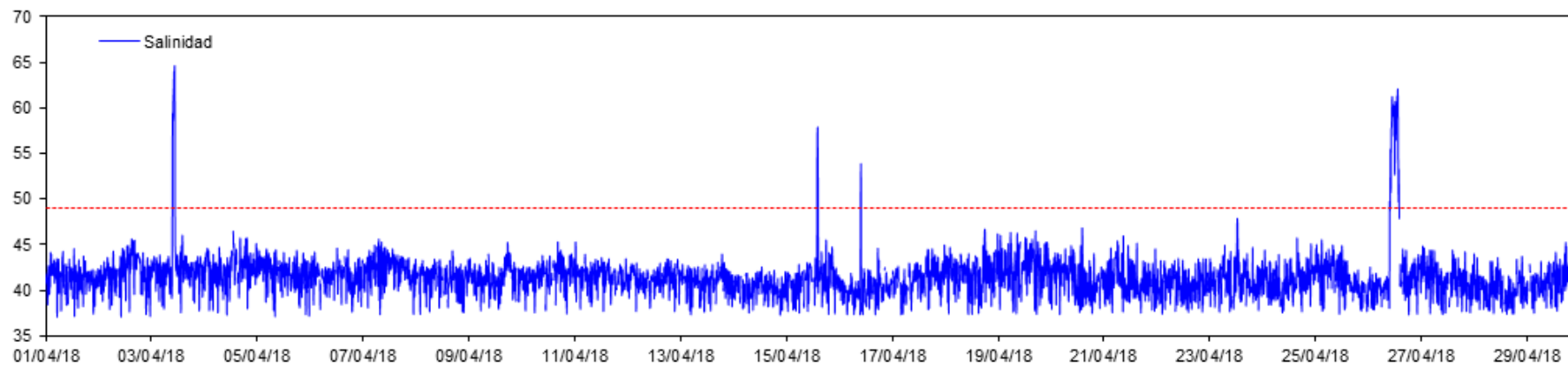
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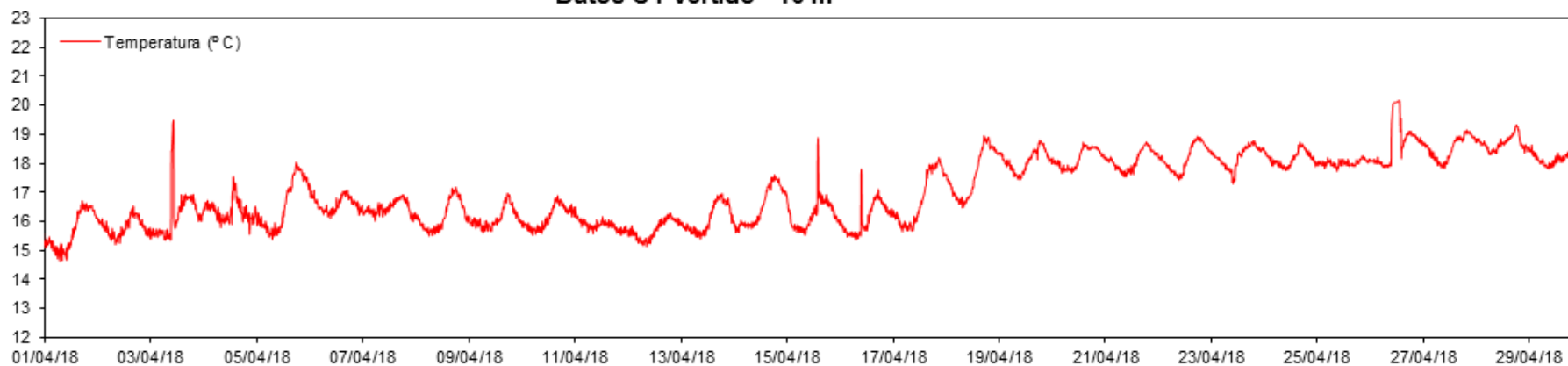
Datos CT Urbanova - 16 m



Datos CT Vertido - 16 m

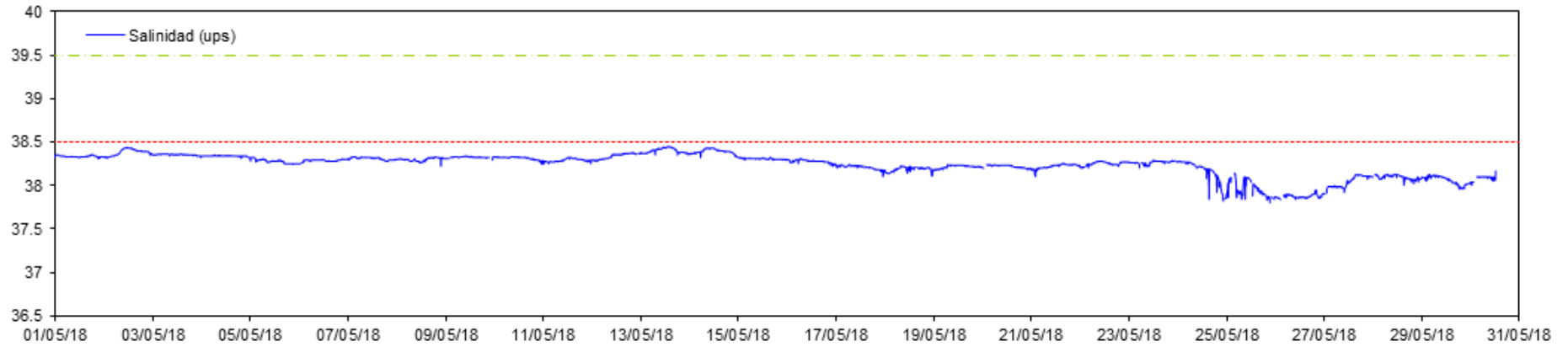


Datos CT Vertido - 16 m

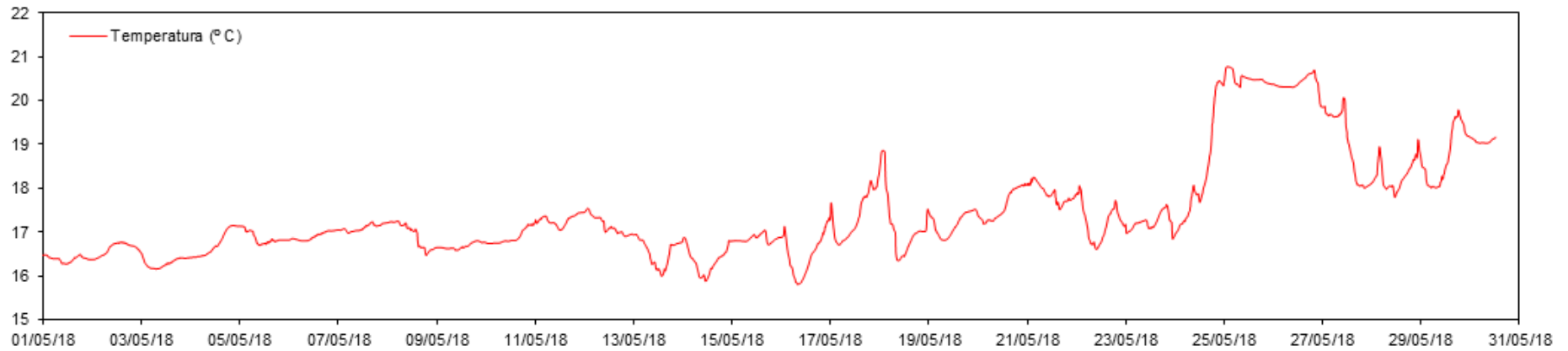


* Datos mensuales (Mayo):

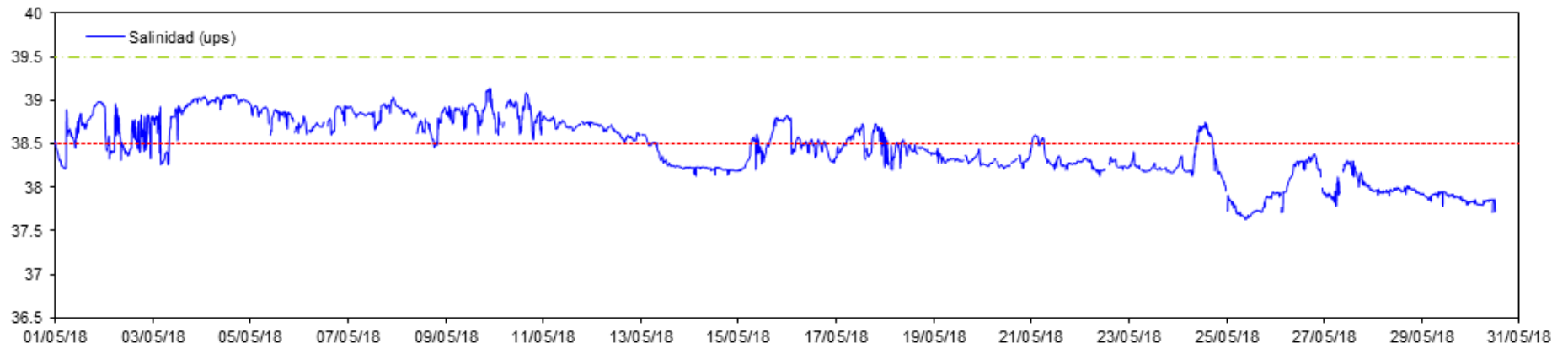
Datos CT Puerto - 16 m



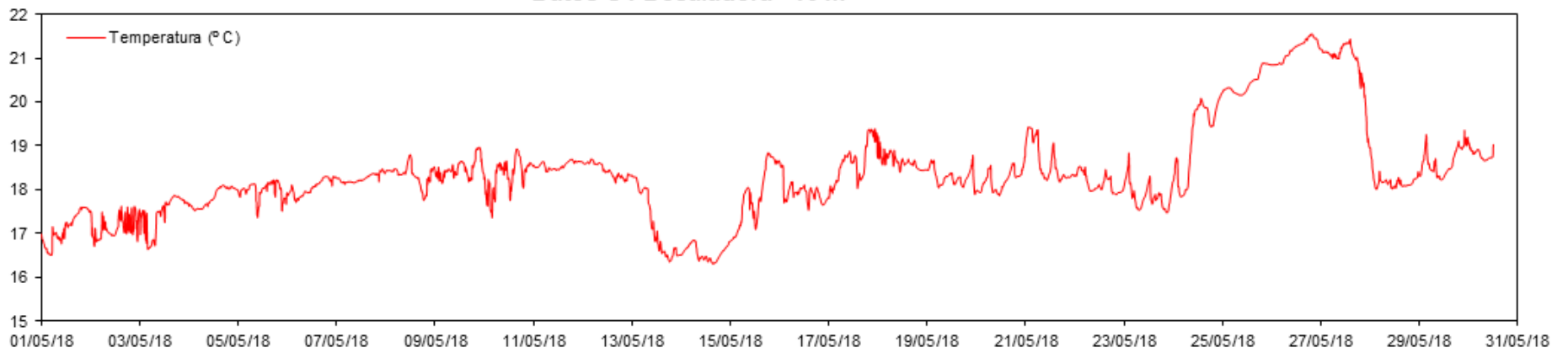
Datos CT Puerto - 16 m



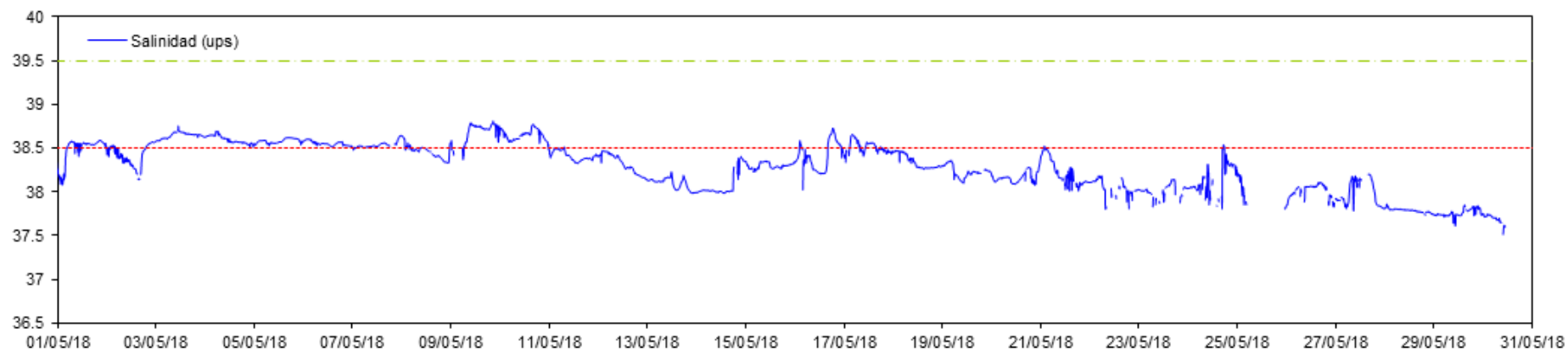
Datos CT Desaladora - 16 m



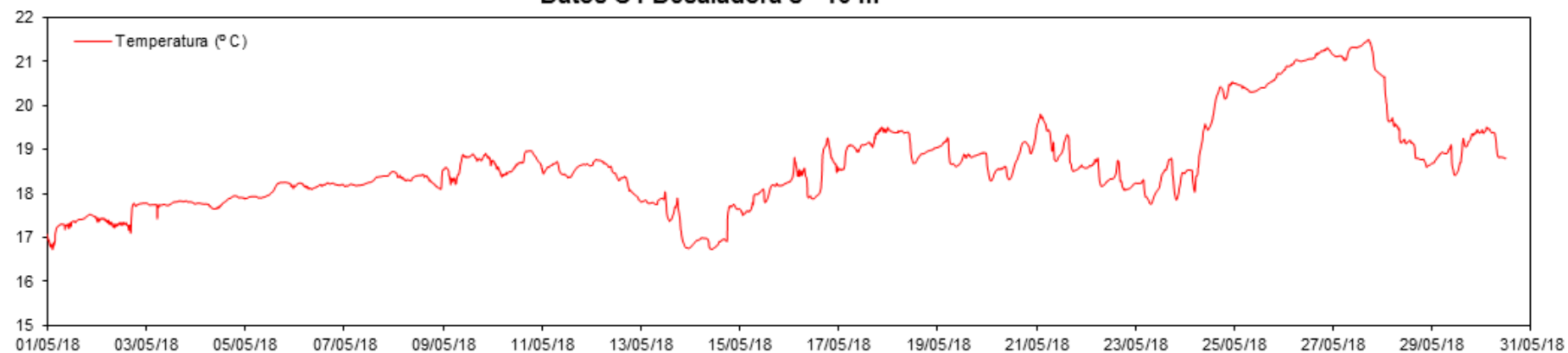
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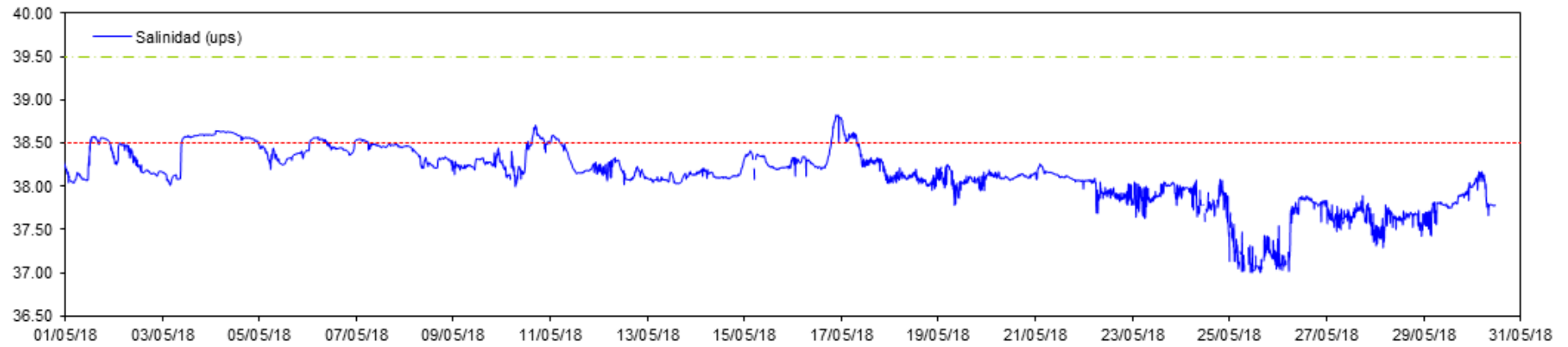
Datos CT Desaladora S - 16 m



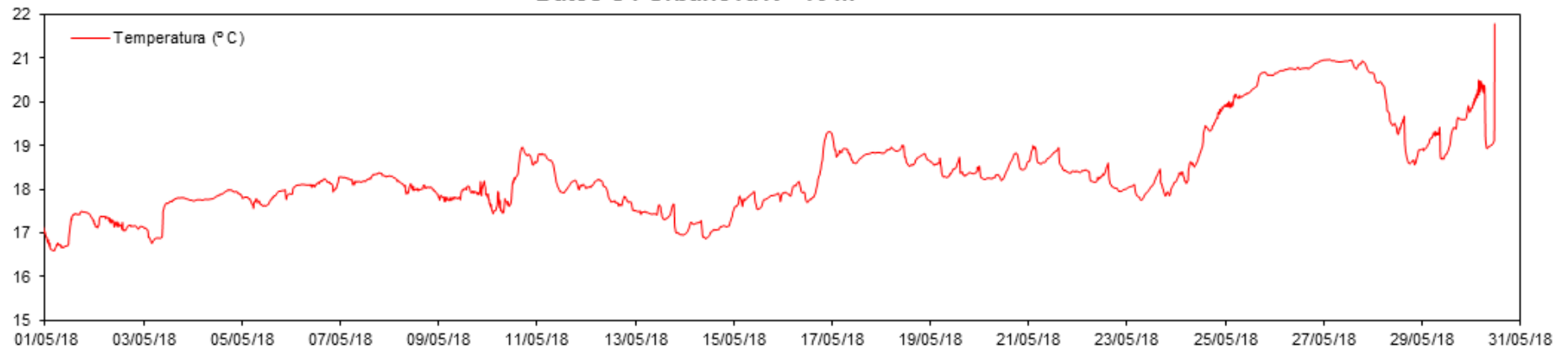
Datos CT Desaladora S - 16 m



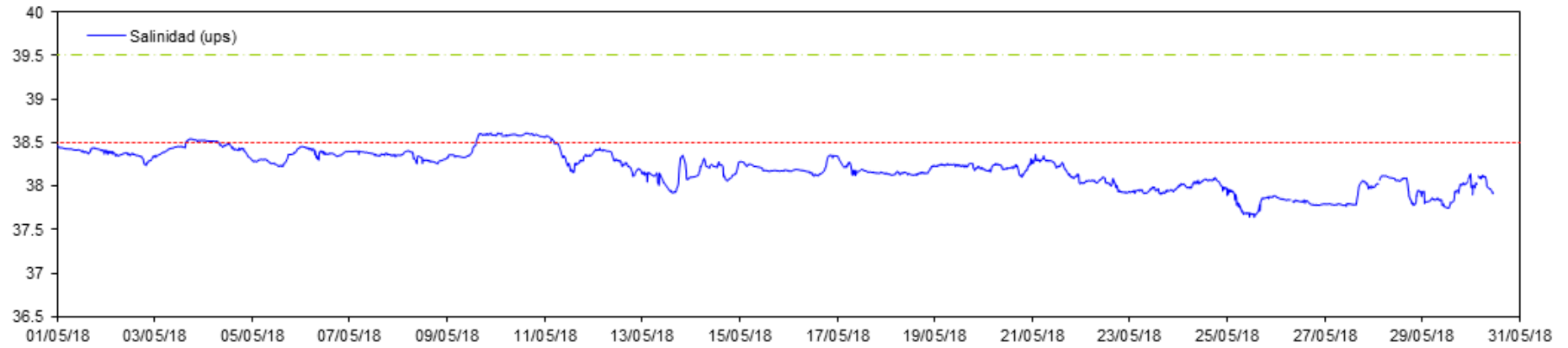
Datos CT Urbanova N - 16 m



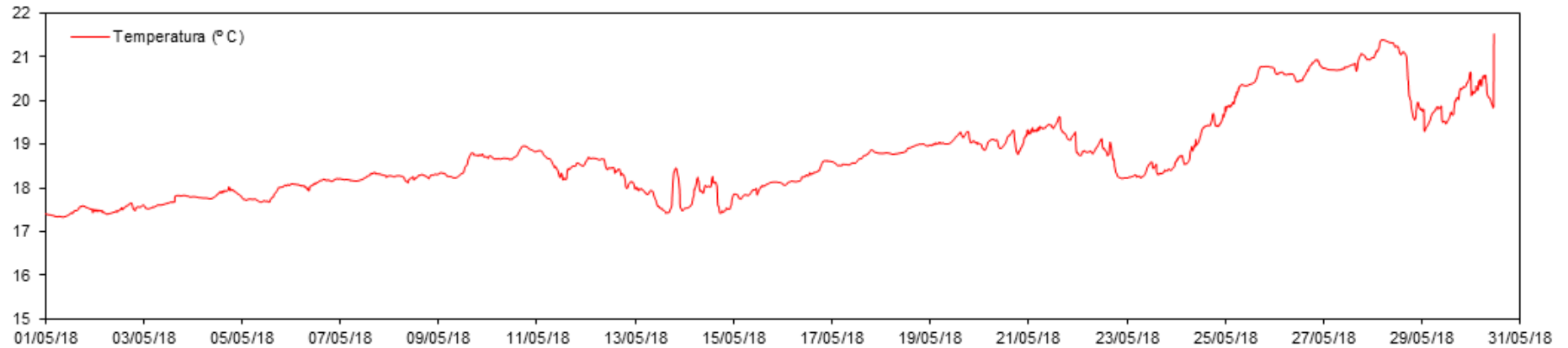
Datos CT Urbanova N - 16 m



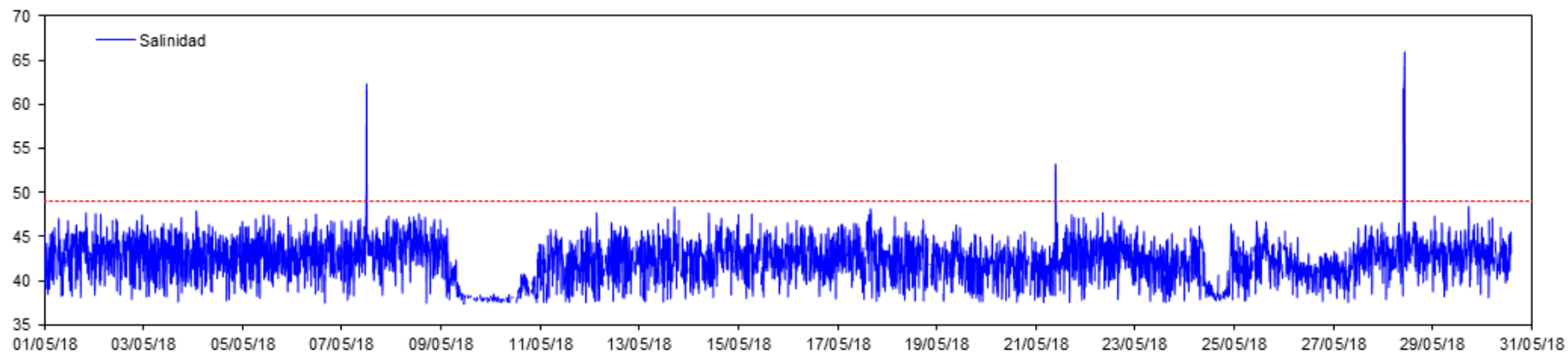
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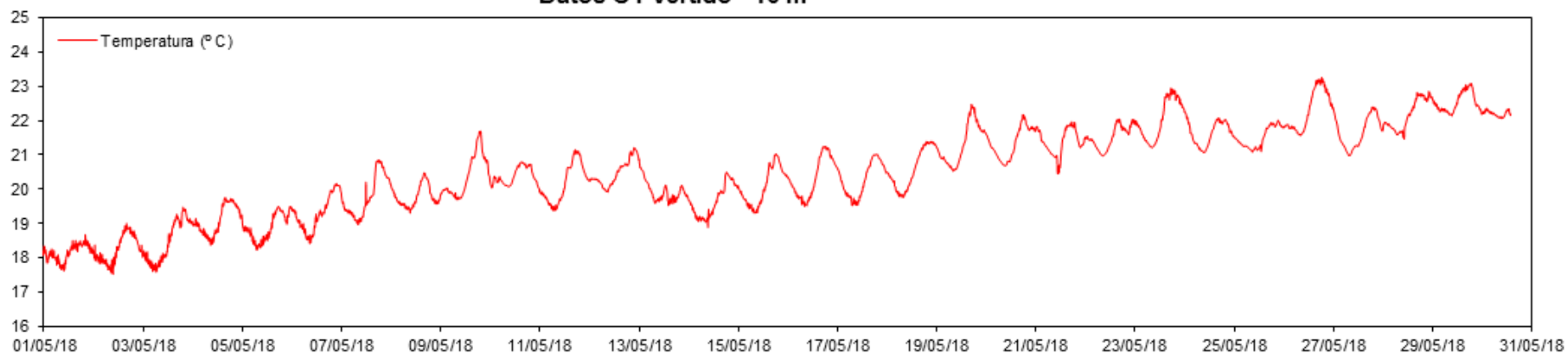
Datos CT Urbanova - 16 m



Datos CT Vertido - 16 m

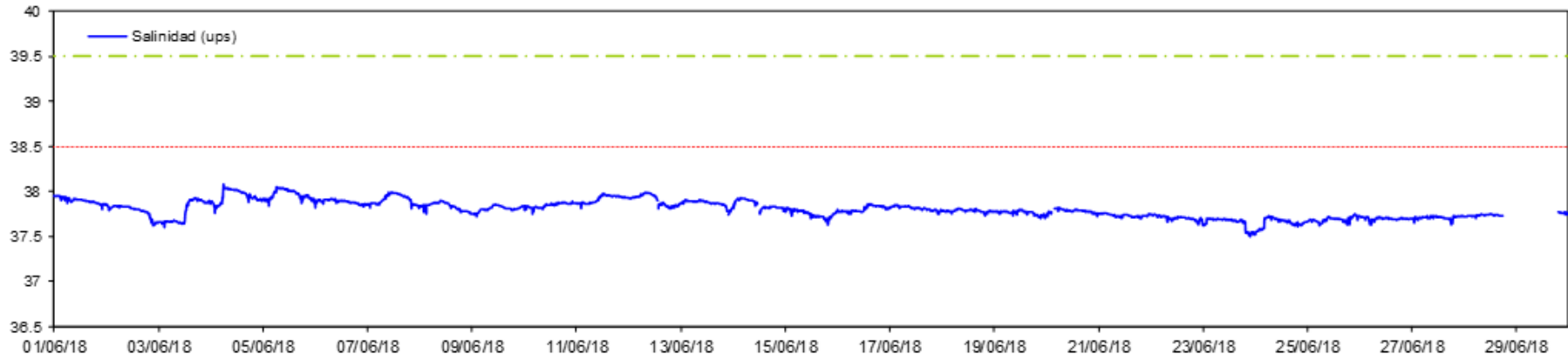


Datos CT Vertido - 16 m

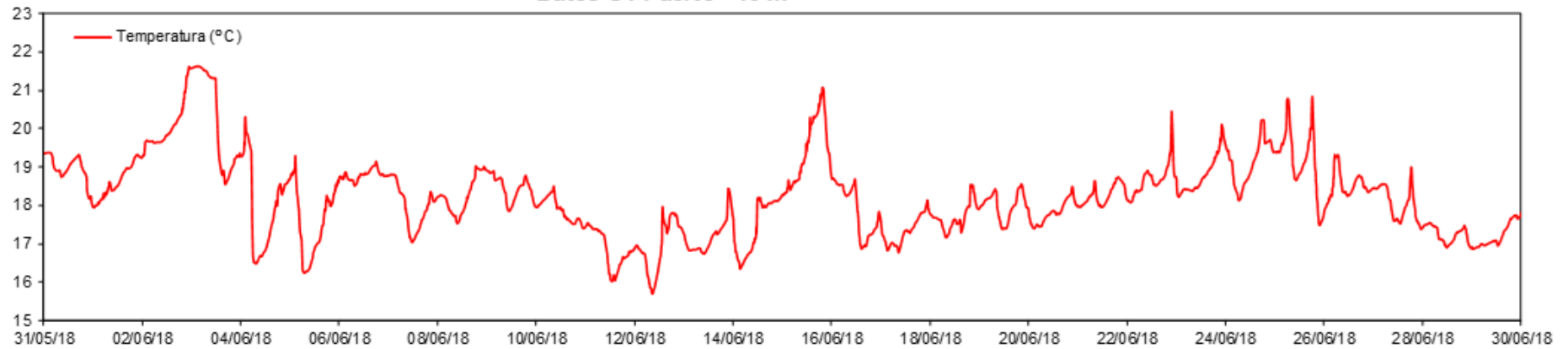


* Datos mensuales (Junio):

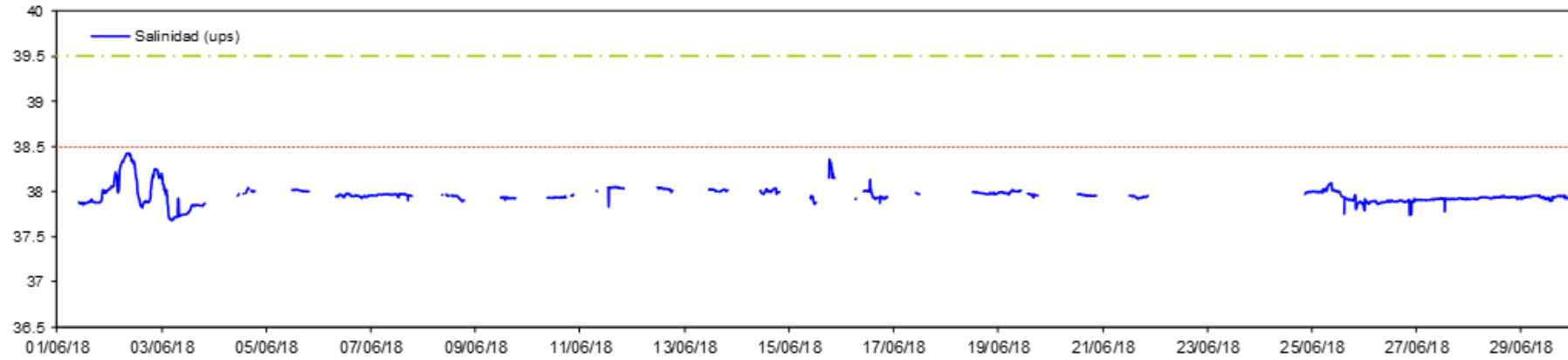
Datos CT Puerto - 16 m



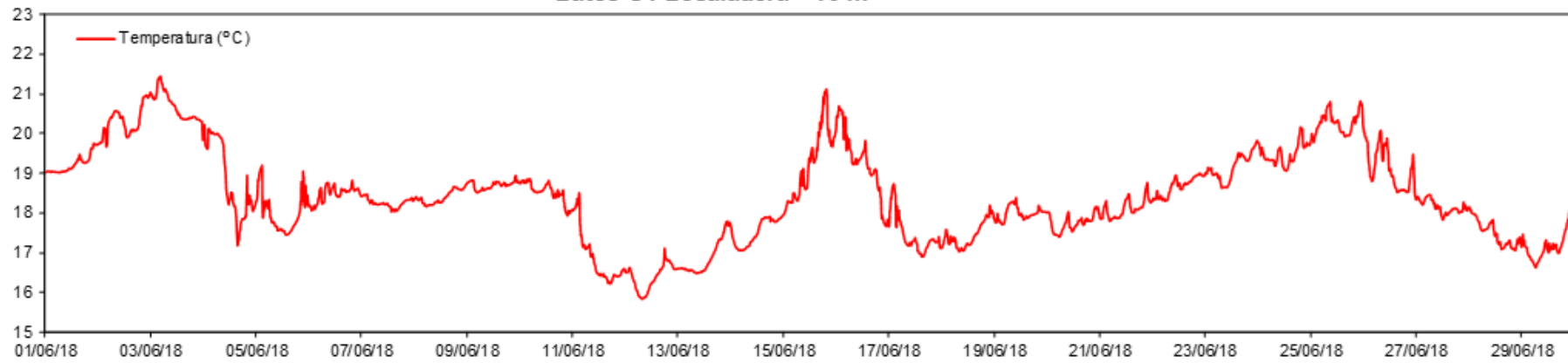
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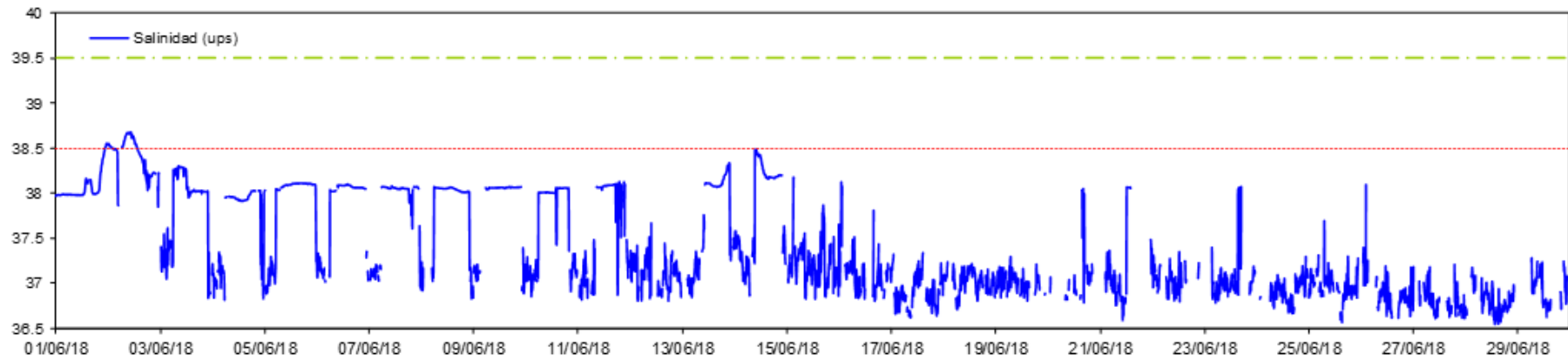
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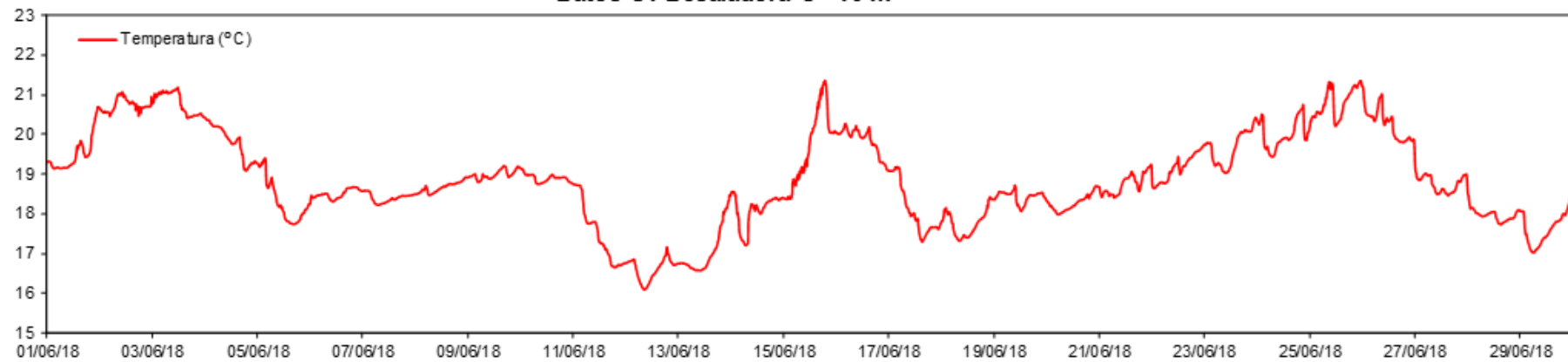
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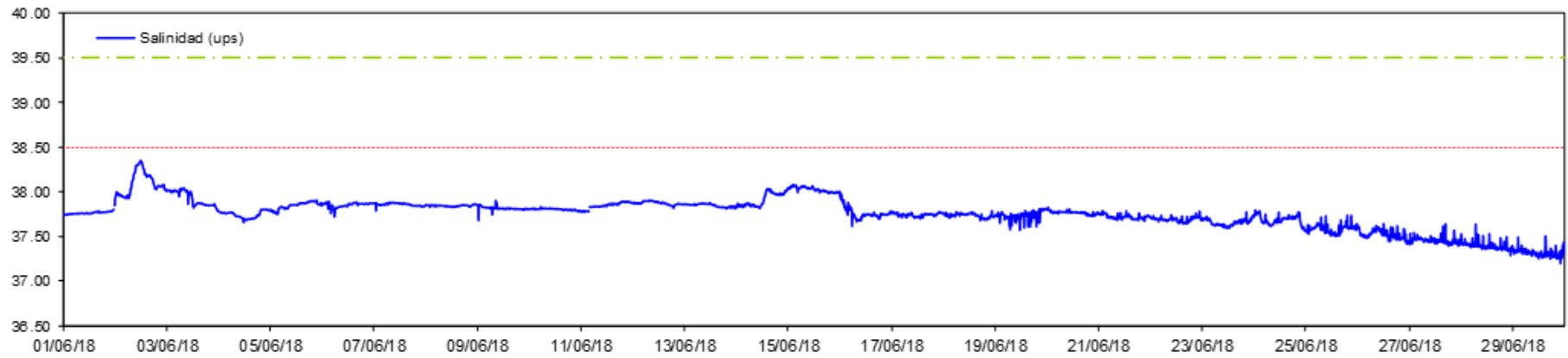
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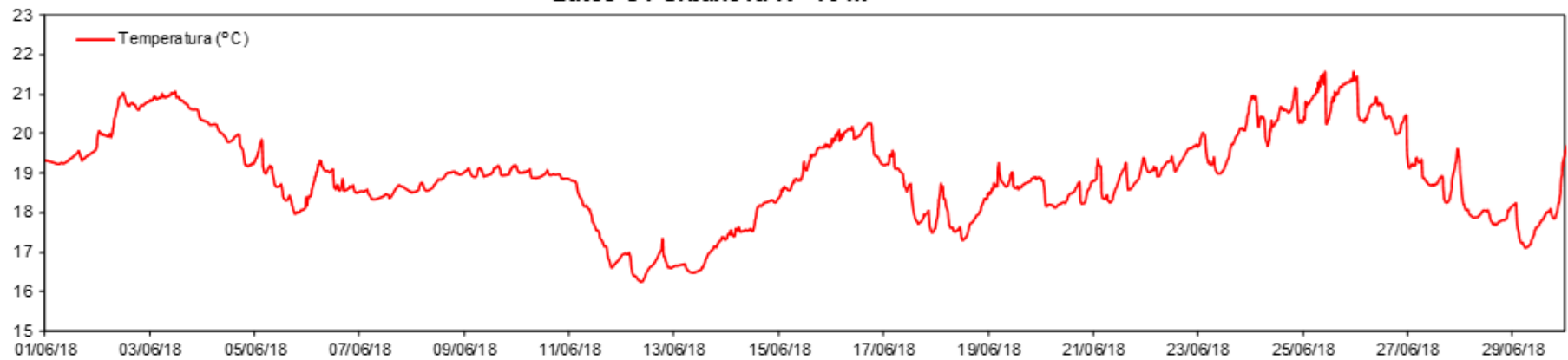
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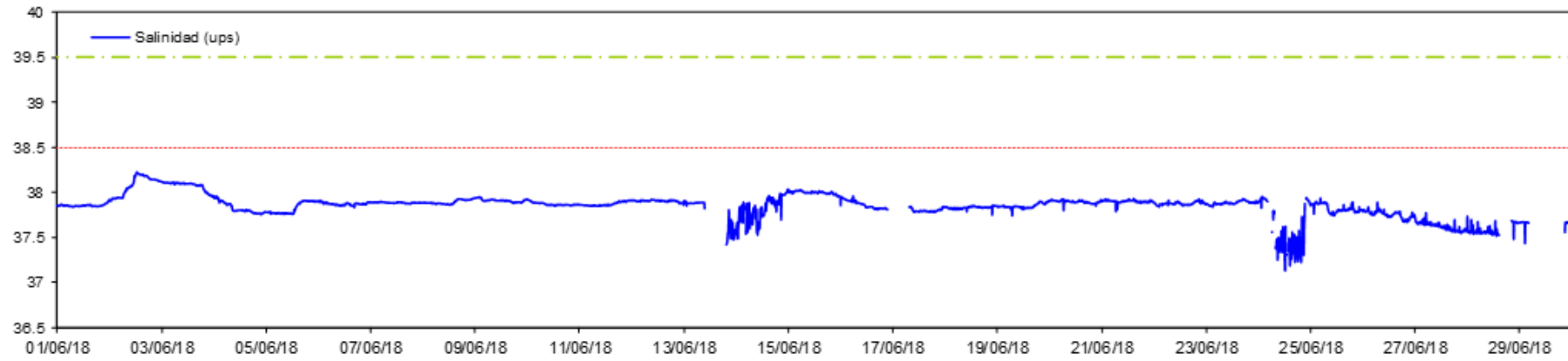
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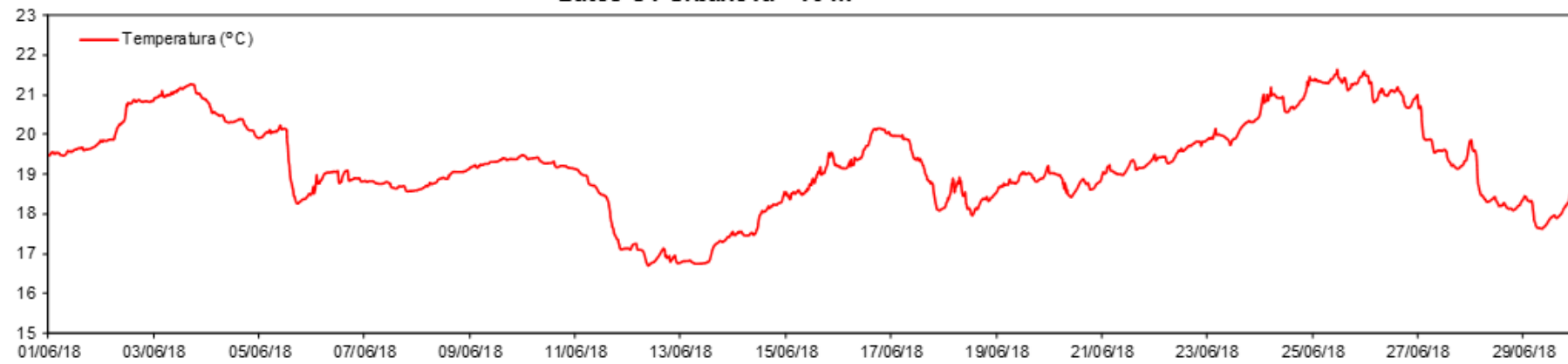
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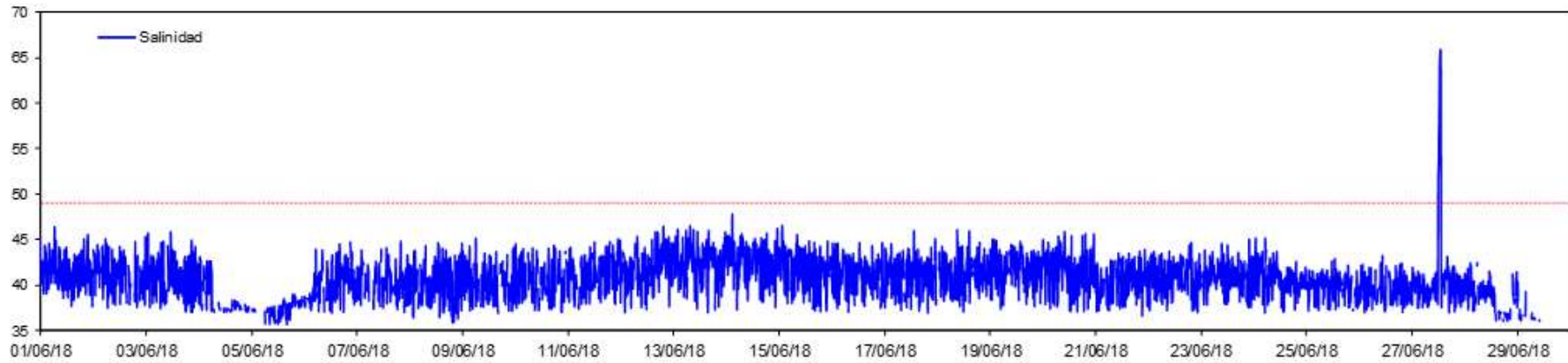
Datos CT Urbanova - 16 m



Datos CT Urbanova - 16 m



Datos CTVertido - 16 m



Datos CT Vertido - 16 m

