



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. Julio-Septiembre de 2020

VALORACIÓN: La salinidad durante el periodo considerado ha estado dentro de los niveles establecidos.

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

En Alicante a 6 de octubre de 2020

A handwritten signature in blue ink, consisting of several overlapping strokes that form a stylized, abstract shape.

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

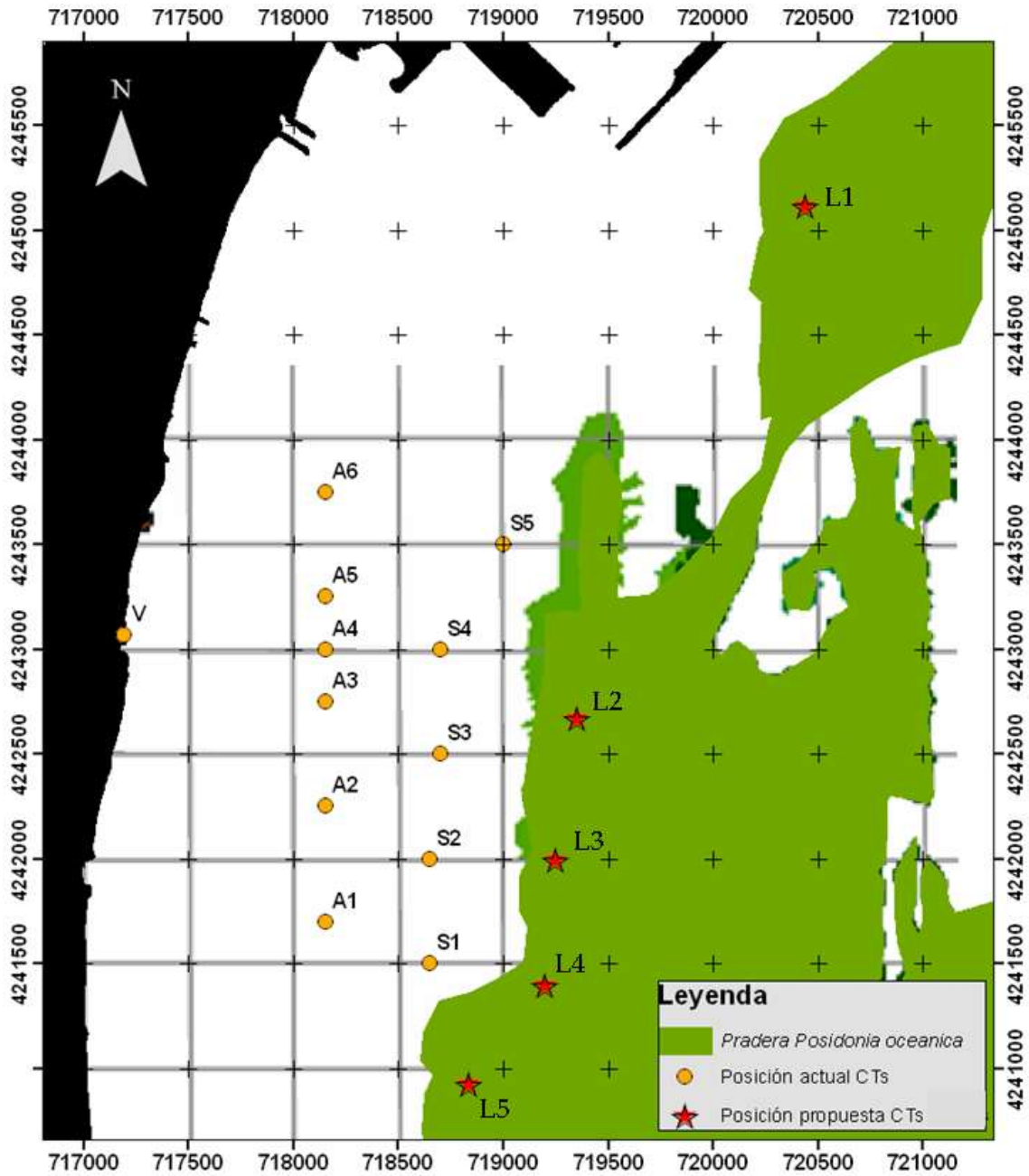


Figura 1: Posición de los sensores.

Mediciones de salinidad y temperatura en el medio receptor

***Julio:**

- Salinidades (ups)

Localidad	Media	Máximo	Mínimo	% > 38.3	% > 38.5	% > 40
1 (Control Puerto)	37.22	37.81	36.51	0.00	0.00	0.00
2 (Desaladora)	37.79	38.28	37.21	0.00	0.00	0.00
3 (Desaladora Sur)	37.67	38.17	36.51	0.00	0.00	0.00
4 (Urbanova Norte)	37.54	38.03	36.72	0.00	0.00	0.00
5 (Urbanova)	37.51	37.92	36.88	0.00	0.00	0.00
Vertido	36.06	61.46	31	% > 38.5	% > 39.5	% > 49
				7.1	5.5	1.5

- Temperaturas (° C)

Punto	Media	Máximo	Mínimo
1 (Control Puerto)	24.41	27.27	18.05
2 (Desaladora)	24.57	27.98	19.25
3 (Desaladora Sur)	24.95	27.75	19.82
4 (Urbanova Norte)	24.98	27.59	19.73
5 (Urbanova)	24.94	27.44	21.06
Vertido	27.72	29.76	23.27

*** Agosto:**

- Salinidades (ups)

Localidad	Media	Máximo	Mínimo	% > 38.3	% > 38.5	% > 40
1 (Control Puerto)	34.74	36.94	29.76	0.00	0.00	0.00
2 (Desaladora)	37.12	38.14	36.5	0.00	0.00	0.00
3 (Desaladora Sur)	36.90	37.73	36.52	0.00	0.00	0.00
4 (Urbanova Norte)	37.17	37.70	36.60	0.00	0.00	0.00
5 (Urbanova)	32.56	37.32	29.21	0.00	0.00	0.00
Vertido	36.44	39.80	31.02	% > 38.5	% > 39.5	% > 49
				2.60	0.10	0.00

- Temperaturas (° C)

Punto	Media	Máximo	Mínimo
1 (Control Puerto)	23.68	28.28	19.08
2 (Desaladora)	23.75	27.86	18.79
3 (Desaladora Sur)	24.17	28.11	19.77
4 (Urbanova Norte)	24.30	28.04	19.82
5 (Urbanova)	24.60	28.12	20.54
Vertido	28.79	32.57	25.60

*** Septiembre:**

- Salinidades (ups)

Localidad	Media	Máximo	Mínimo	% > 38.3	% > 38.5	% > 40
1 (Control Puerto)	37.35	37.73	37.20	0.00	0.00	0.00
2 (Desaladora)	37.30	38.03	36.80	0.00	0.00	0.00
3 (Desaladora Sur)	37.26	37.90	36.54	0.00	0.00	0.00
4 (Urbanova Norte)	37.23	37.73	36.87	0.00	0.00	0.00
5 (Urbanova)	37.35	37.72	37.00	0.00	0.00	0.00
Vertido	36.16	44.05	30.01	% > 38.5	% > 39.5	% > 49
				16.9	13.6	0.00

- Temperaturas (° C)

Punto	Media	Máximo	Mínimo
1 (Control Puerto)	24.79	27.27	18.32
2 (Desaladora)	25.11	27.30	19.30
3 (Desaladora Sur)	25.45	27.10	20.16
4 (Urbanova Norte)	25.40	27.13	20.46
5 (Urbanova)	25.47	26.94	20.57
Vertido	26.13	28.10	23.25

Régimen de funcionamiento de las desalinizadoras

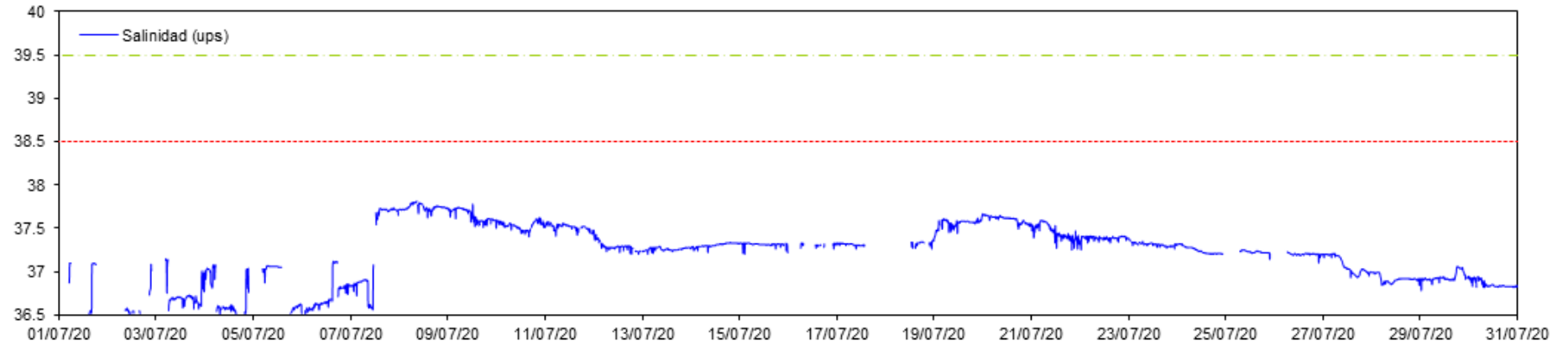
	Producción Alicante I (m ³ /día)	Producción Alicante II (m ³ /día)	Rechazo Alicante I (m ³ /día)	Rechazo Alicante II (m ³ /día)	CAUDAL vertido (m ³ /h)	CAUDAL Dilución (m ³ /h)	RELACIÓN de dilución
01/07/2020	17.593	40.986	25.943	56.545	3204,67	5833,00	1,82
02/07/2020	13.969	38.306	20.367	51.127	2946,83	5317,00	1,80
03/07/2020	13.423	38.796	19.597	46.936	3323,58	6433,00	1,94
04/07/2020	23.022	39.407	32.830	49.229	3667,13	7950,00	2,17
05/07/2020	27.562	38.062	38.782	50.816	3636,67	8100,00	2,23
06/07/2020	25.721	42.749	36.464	61.697	3959,75	8500,00	2,15
07/07/2020	24.179	37.873	33.337	52.239	3931,08	12048,77	3,07
08/07/2020	29.955	38.466	42.107	53.581	3815,75	13823,16	3,62
09/07/2020	26.893	41.069	37.997	55.484	3918,25	10309,93	2,63
10/07/2020	27.170	39.540	38.554	53.902	4196,25	10607,72	2,53
11/07/2020	32.632	38.770	46.808	53.654	4255,67	8625,00	2,03
12/07/2020	34.354	36.325	48.482	53.464	3582,04	9000,00	2,51
13/07/2020	23.340	42.085	32.505	53.329	2222,04	5666,67	2,55
14/07/2020	0	40.836	0	54.522	2271,75	7444,85	3,28
15/07/2020	0	40.652	0	48.169	2007,04	7444,85	3,71
16/07/2020	0	35.264	0	45.880	1911,67	7444,85	3,89
17/07/2020	0	32.542	0	41.836	1743,17	7444,85	4,27
18/07/2020	0	32.756	0	42.211	1758,79	7444,85	4,23
19/07/2020	0	42.796	0	49.288	2053,67	7444,85	3,63
20/07/2020	0	39.207	0	53.475	2228,13	7445,00	3,34
21/07/2020	0	35.616	0	45.300	1887,50	6300,00	3,34
22/07/2020	0	22.185	0	39.422	2088,58	6200,00	2,97
23/07/2020	7.476	19.479	10.704	29.186	2171,54	6000,00	2,76
24/07/2020	16.101	19.471	22.931	29.077	2430,21	6100,00	2,51
25/07/2020	20.742	26.970	29.248	39.901	2857,75	6467,00	2,26
26/07/2020	20.535	42.999	28.685	54.429	3445,88	6600,00	1,92
27/07/2020	20.225	38.827	28.264	55.006	3506,29	7445,00	2,12
28/07/2020	20.879	41.524	29.145	50.532	3340,63	6300,00	1,89
29/07/2020	21.331	39.043	29.645	51.823	3358,38	6200,00	1,85
30/07/2020	20.389	41.709	28.375	51.150	3128,54	6000,00	1,92
31/07/2020	17.912	40.374	24.336	50.335	2863,50	6100,00	2,13

	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
01/08/2020	14.160	39.235	19.164	30.817	2433,29	6467,00	2,66
02/08/2020	14.345	26.475	19.391	28.182	2327,75	6600,00	2,84
03/08/2020	13.777	30.272	18.775	38.982	2406,54	5250,00	2,18
04/08/2020	25.581	30.320	36.083	39.985	3169,50	5325,00	1,68
05/08/2020	26.485	34.522	37.255	45.474	3447,04	5567,00	1,62
06/08/2020	27.362	41.746	38.502	49.249	3656,29	6400,00	1,75
07/08/2020	30.249	36.865	50.119	47.007	4046,92	6400,00	1,58
08/08/2020	34.375	40.845	65.421	48.929	4764,58	6750,00	1,42
09/08/2020	35.872	39.381	64.174	48.497	4694,63	7100,00	1,51
10/08/2020	41.144	39.544	59.127	49.318	4518,54	7467,00	1,65
11/08/2020	41.685	40.436	61.279	50.110	4641,21	7900,00	1,70
12/08/2020	42.522	14.985	62.666	25.196	3660,92	5917,00	1,62
13/08/2020	38.706	23.418	51.850	33.738	3566,17	5492,00	1,54
14/08/2020	34.323	16.447	48.897	23.193	3003,75	5900,00	1,96
15/08/2020	33.184	20.323	47.127	26.870	3083,21	5900,00	1,91
16/08/2020	34.409	20.392	48.920	27.319	3176,63	5900,00	1,86
17/08/2020	36.267	20.149	51.889	26.751	3276,67	5900,00	1,80
18/08/2020	34.984	20.599	49.572	27.563	3213,96	5908,00	1,84
19/08/2020	35.836	30.757	50.828	40.025	3785,54	6438,00	1,70
20/08/2020	35.426	40.554	50.286	50.289	4190,63	7200,00	1,72
21/08/2020	29.998	40.862	43.218	52.173	3974,63	7200,00	1,81
22/08/2020	34.849	37.725	49.479	48.781	4094,17	7200,00	1,76
23/08/2020	34.167	41.043	48.333	51.830	4173,46	7200,00	1,73
24/08/2020	34.623	42.254	49.089	52.484	3276,67	5900	1,8
25/08/2020	35.816	29.879	50.864	39.681	3213,96	5908	1,84
26/08/2020	35.599	31.495	50.525	23.495	3785,54	6438	1,7
27/08/2020	34.693	25.488	48.567	18.718	4190,63	7200	1,72
28/08/2020	36.144	25.881	50.440	21.025	3974,63	7200	1,81
29/08/2020	32.293	26.004	45.119	21.316	4094,17	7200	1,76
30/08/2020	26.352	25.078	36.528	17.617	4173,46	7200	1,73
31/08/2020	21.520	25.734	30.104	21.679	2326,58	5800,00	2,49

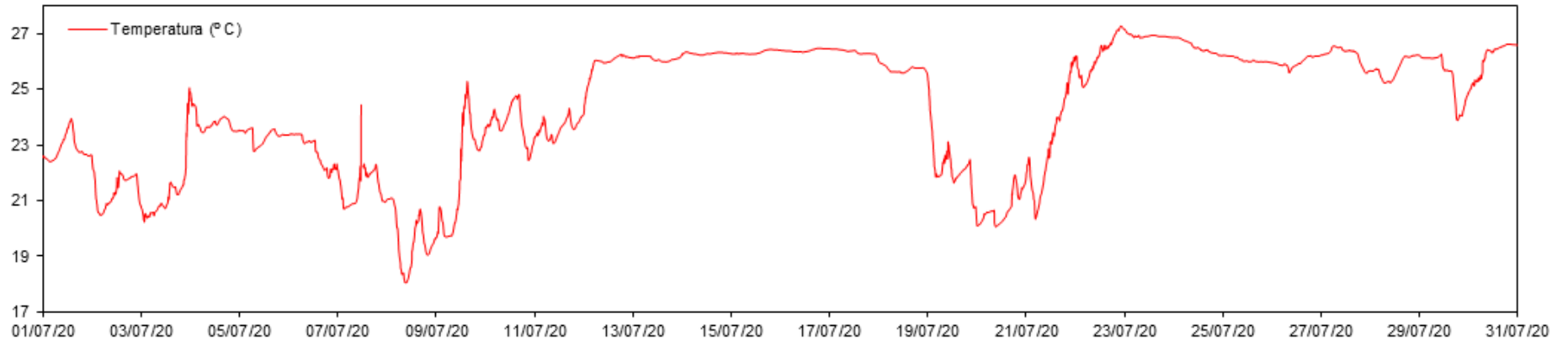
	Producción Alicante I (m³/día)	Producción Alicante II (m³/día)	Rechazo Alicante I (m³/día)	Rechazo Alicante II (m³/día)	CAUDAL vertido (m³/ h)	CAUDAL Dilución (m³/ h)	RELACIÓN de dilución
01/09/2020	20.135	14.802	28.209	25.317	2230,25	5700,00	2,56
02/09/2020	20.964	30.924	30.212	38.983	2883,13	6288,00	2,18
03/09/2020	21.161	32.033	29.831	40.532	2931,79	7200,00	2,46
04/09/2020	22.031	30.532	30.069	38.018	2836,96	7200,00	2,54
05/09/2020	20.692	30.420	28.244	39.883	2838,63	7350,00	2,59
06/09/2020	19.554	42.115	26.426	50.568	3208,08	9000,00	2,81
07/09/2020	21.063	40.495	28.673	48.792	3227,71	9000,00	2,79
08/09/2020	20.723	40.147	28.113	48.469	3190,92	9000,00	2,82
09/09/2020	21.000	38.981	28.783	45.140	3080,13	8325,00	2,70
10/09/2020	21.246	31.238	29.102	38.958	2835,83	7200,00	2,54
11/09/2020	20.945	30.840	28.675	39.517	2841,33	7200,00	2,53
12/09/2020	21.951	30.335	29.941	37.907	2827,00	7600,00	2,69
13/09/2020	20.114	32.358	27.690	40.536	2842,75	7200,00	2,53
14/09/2020	19.382	30.123	26.570	39.639	2758,71	7200,00	2,61
15/09/2020	20.798	28.737	28.458	37.046	2729,33	7200,00	2,64
16/09/2020	20.674	30.028	28.150	38.058	2758,67	7200,00	2,61
17/09/2020	20.797	33.886	28.367	39.661	2834,50	7200,00	2,54
18/09/2020	20.808	32.012	28.608	37.274	2745,08	7200,00	2,62
19/09/2020	21.318	24.644	29.092	30.644	2489,00	6825,00	2,74
20/09/2020	21.192	17.504	29.038	26.012	2293,75	4763,00	2,08
21/09/2020	20.680	9.258	28.240	12.823	1710,96	4700,00	2,75
22/09/2020	14.599	34.827	20.759	38.827	2482,75	5367,00	2,16
23/09/2020	19.587	33.384	30.833	53.771	3525,17	7019,00	1,99
24/09/2020	32.134	42.629	44.818	49.046	3911,00	11121,00	2,84
25/09/2020	34.526	38.635	47.962	53.635	4233,21	11900,00	2,81
26/09/2020	28.270	39.269	39.202	53.997	3883,29	11900,00	3,06
27/09/2020	27.491	41.345	38.205	52.759	3790,17	11900,00	3,14
28/09/2020	21.977	30.599	38.209	57.655	3677,25	11229,17	3,05
29/09/2020	13.627	19.213	30.599	53.604	3034,04	12700,00	4,19
30/09/2020	16.872	23.840	19.213	47.052	2953,83	9204,17	3,12

* Datos mensuales (Julio):

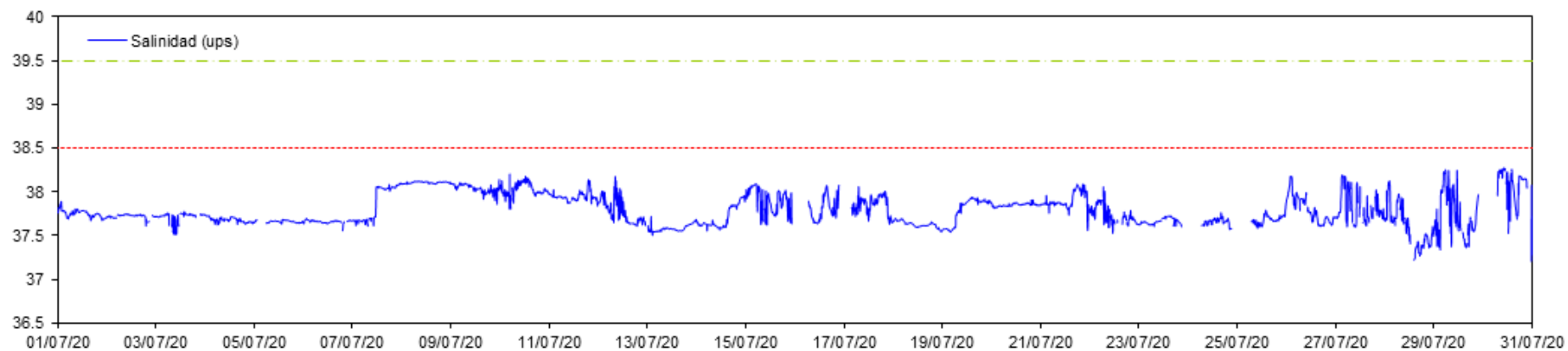
Datos CT Puerto - 16 m



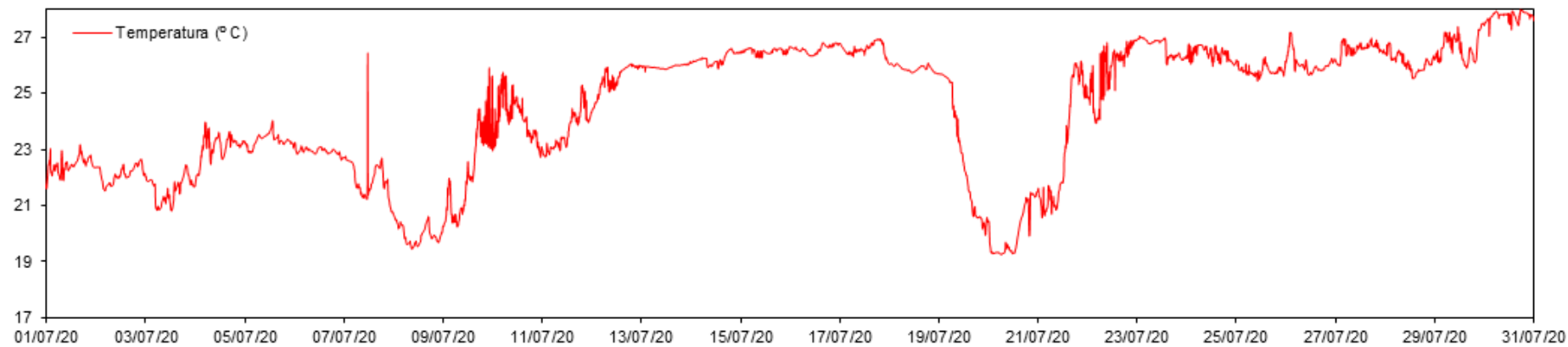
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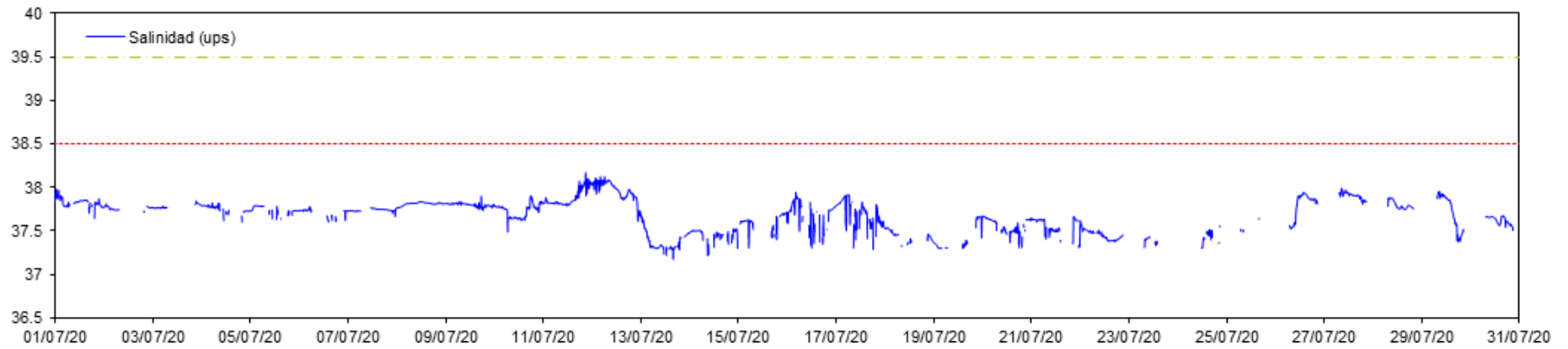
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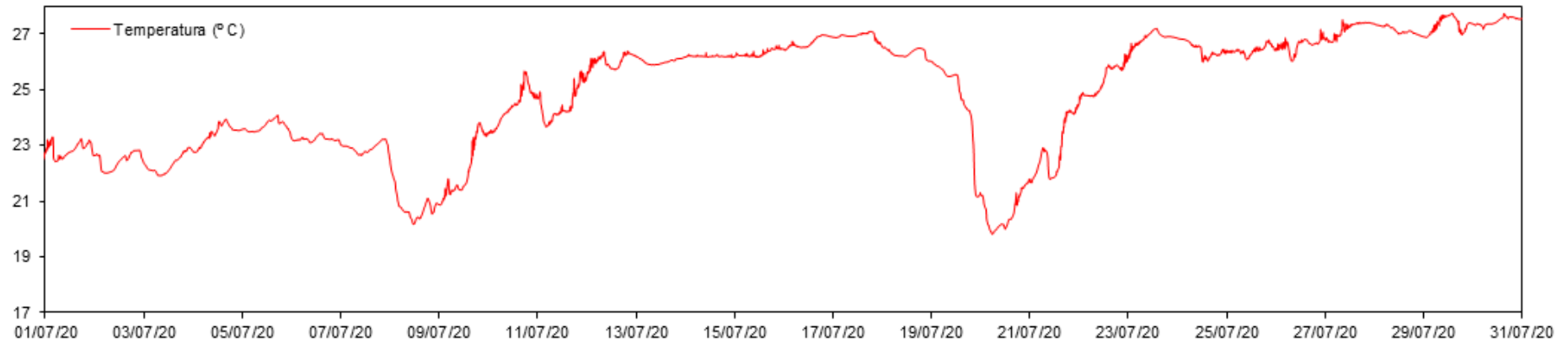
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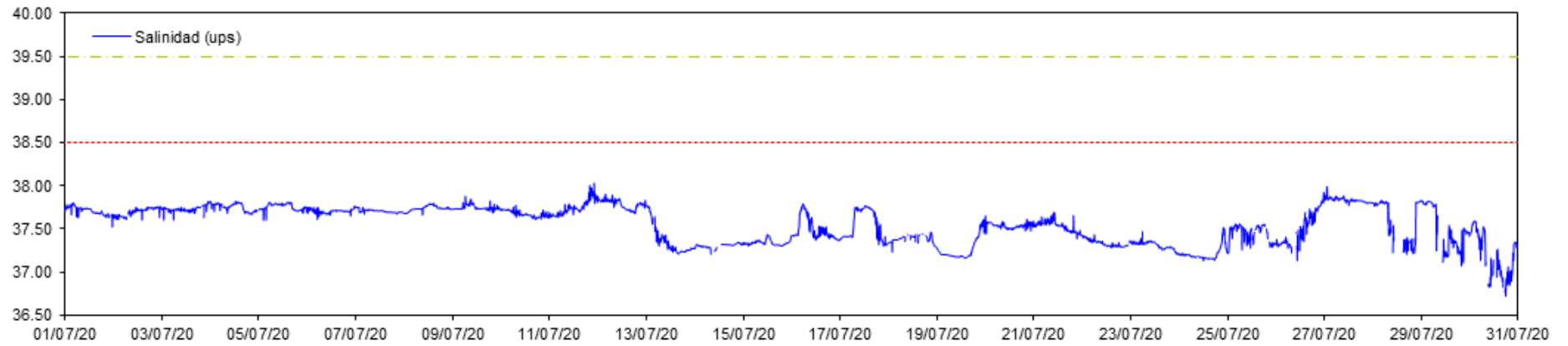
Datos CT Desaladora S - 16 m



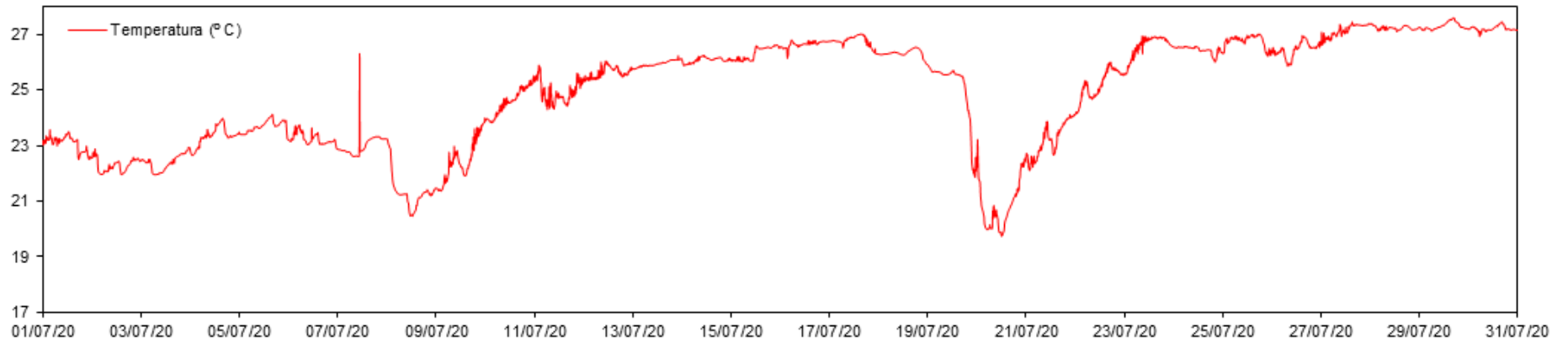
Datos CT Desaladora S - 16 m



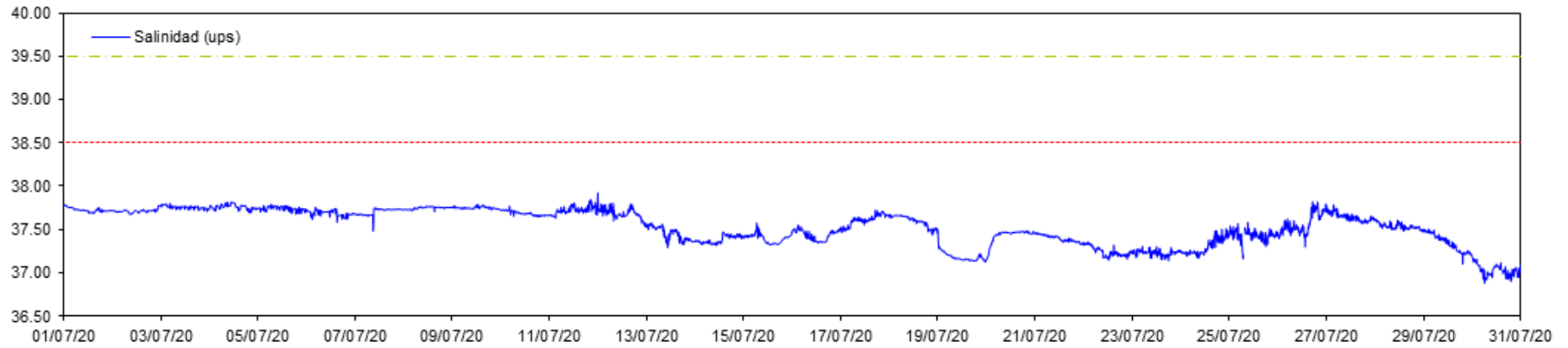
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Datos CT Urbanova N - 16 m



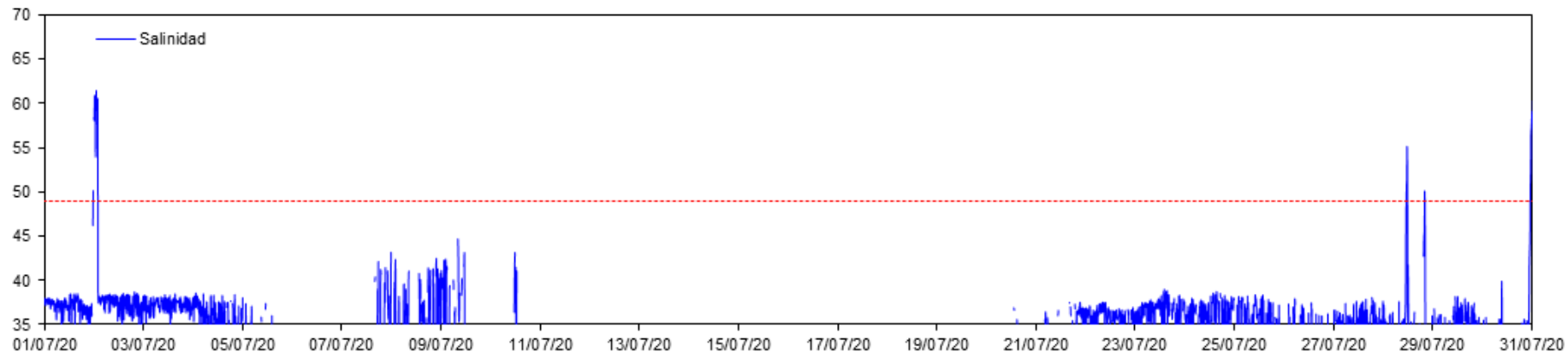
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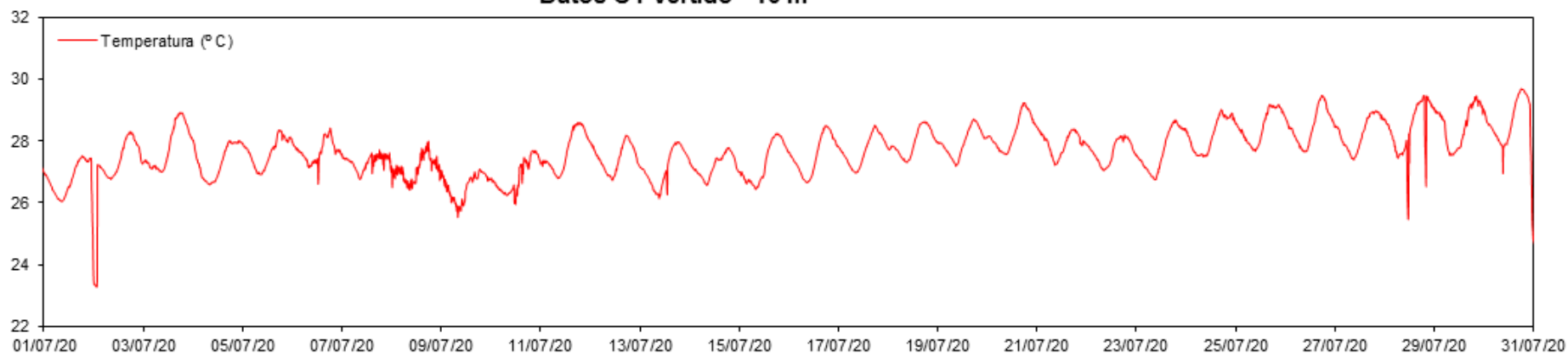
Datos CT Urbanova - 16 m



Datos CT Vertido - 16 m

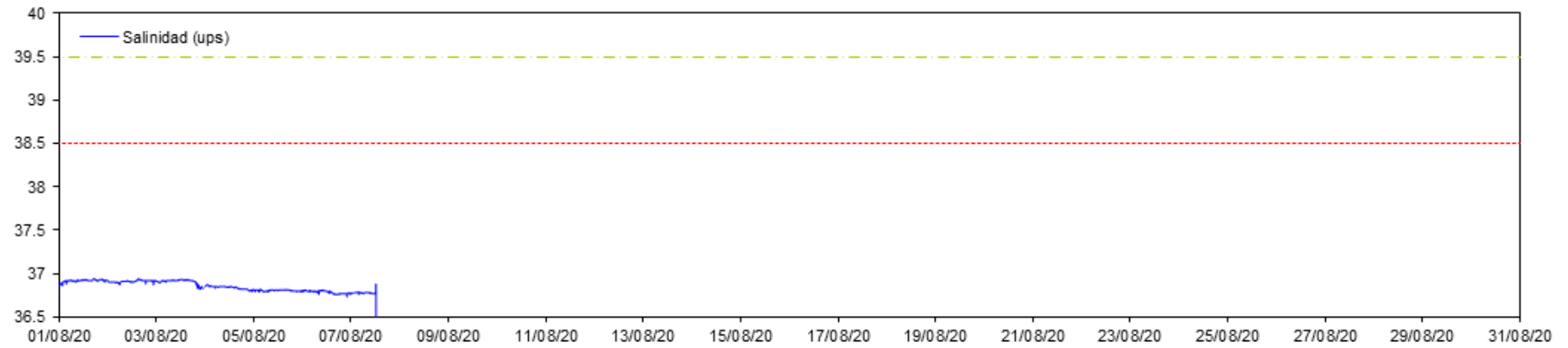


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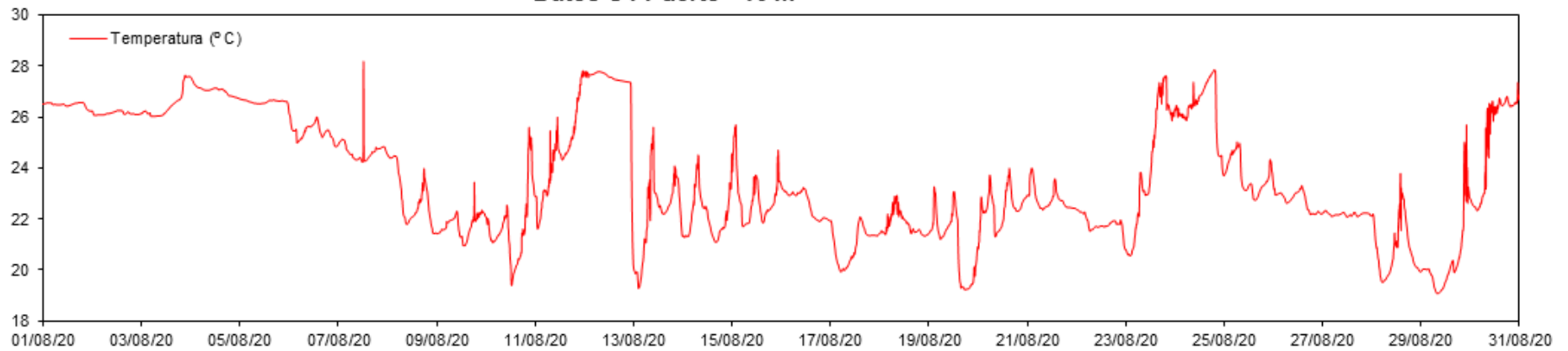


* Datos mensuales (Agosto):

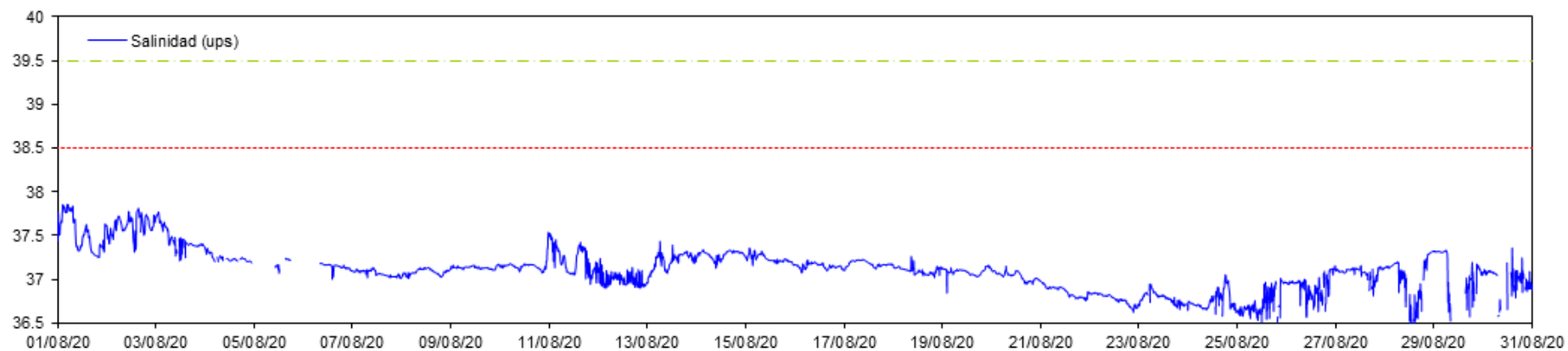
Datos CT Puerto - 16 m



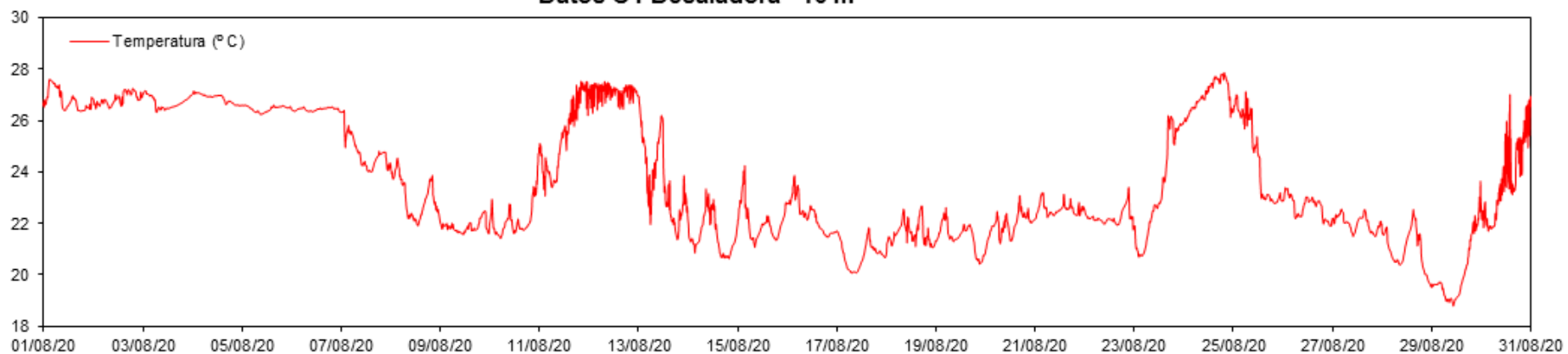
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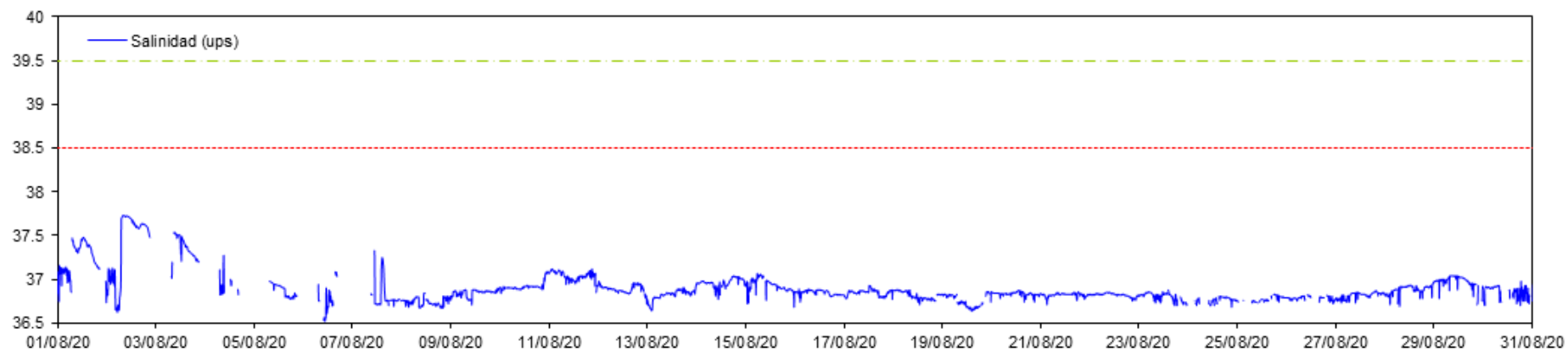
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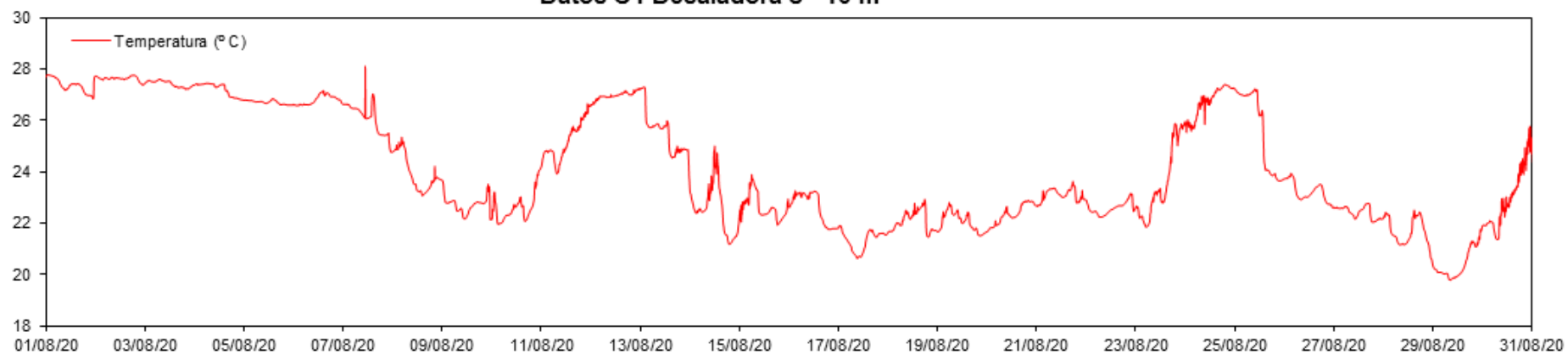
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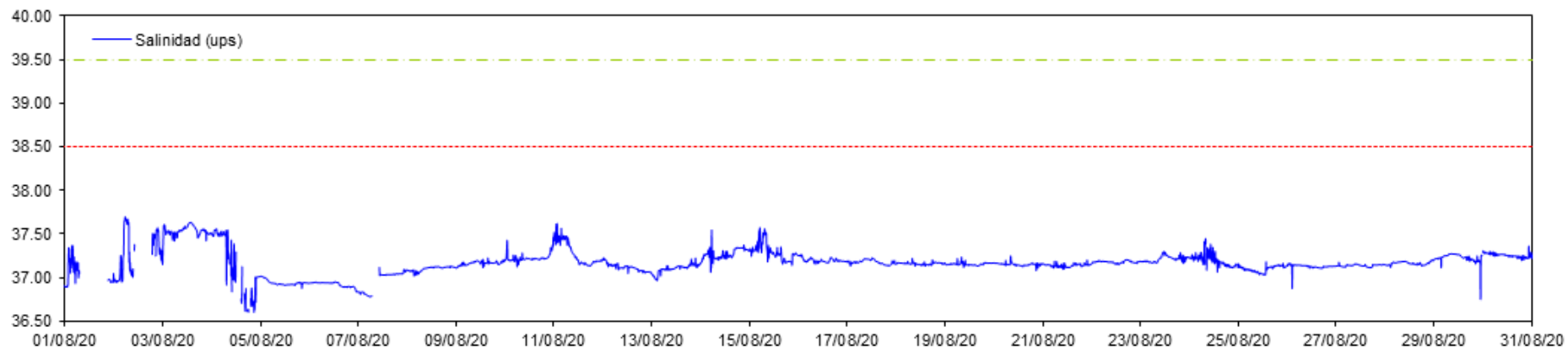
Datos CT Desaladora S - 16 m



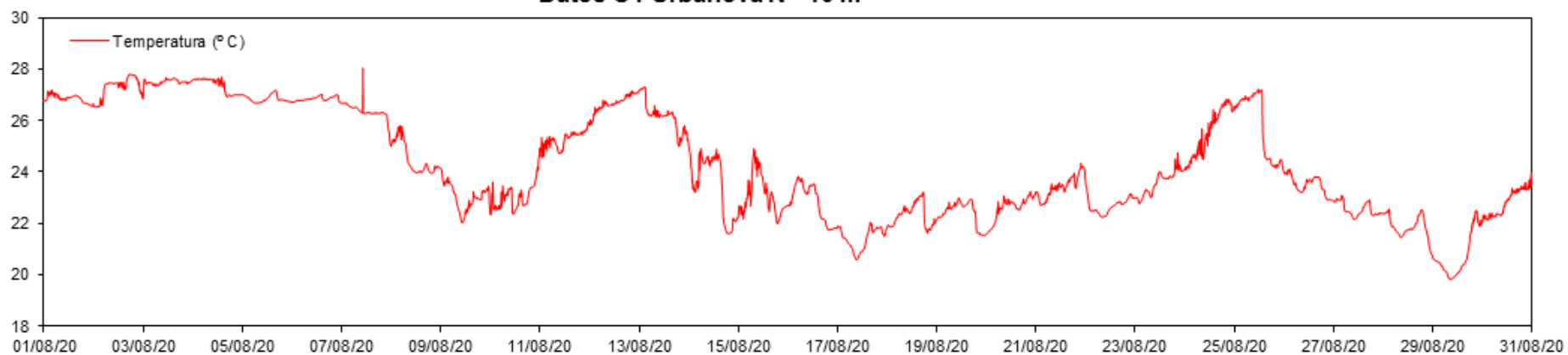
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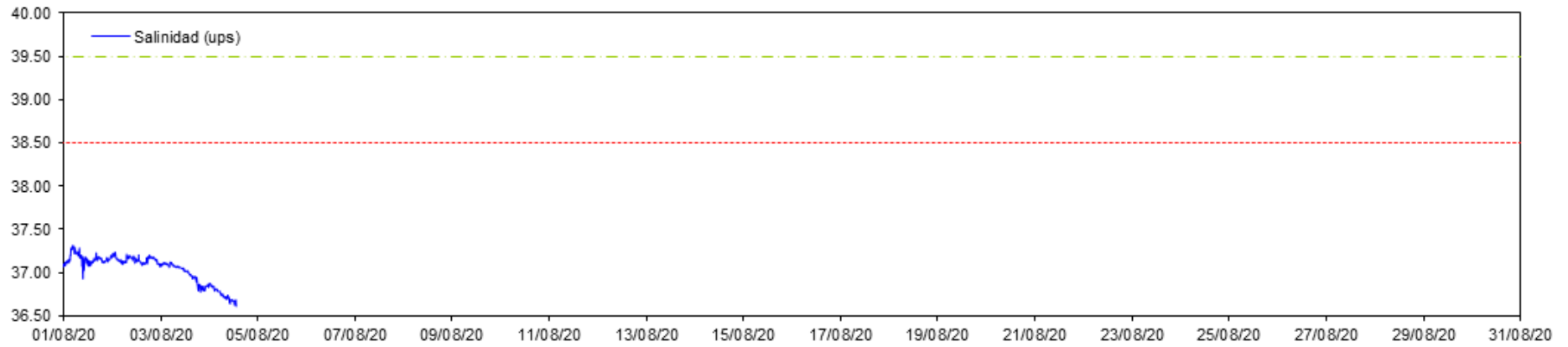
Datos CT Urbanova N - 16 m



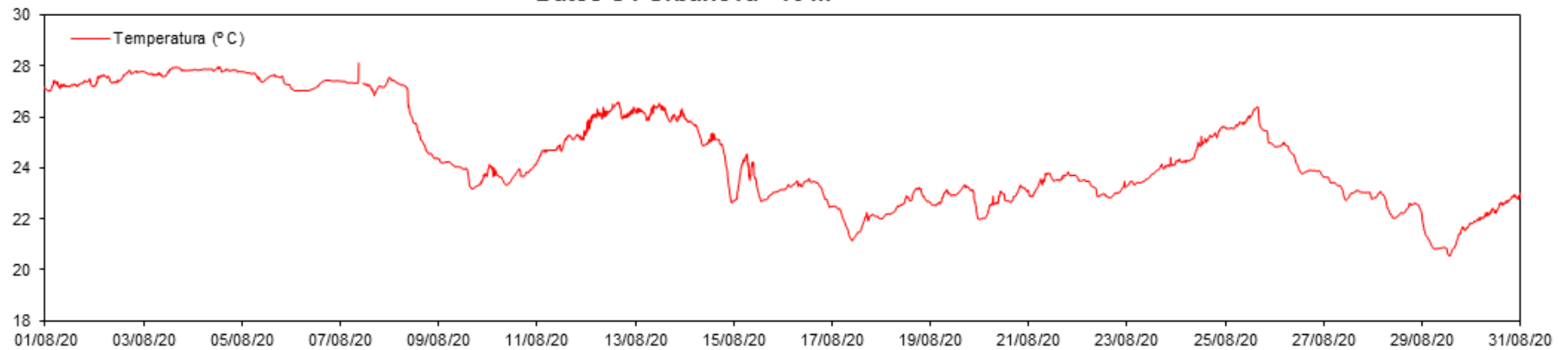
Datos CT Urbanova N - 16 m



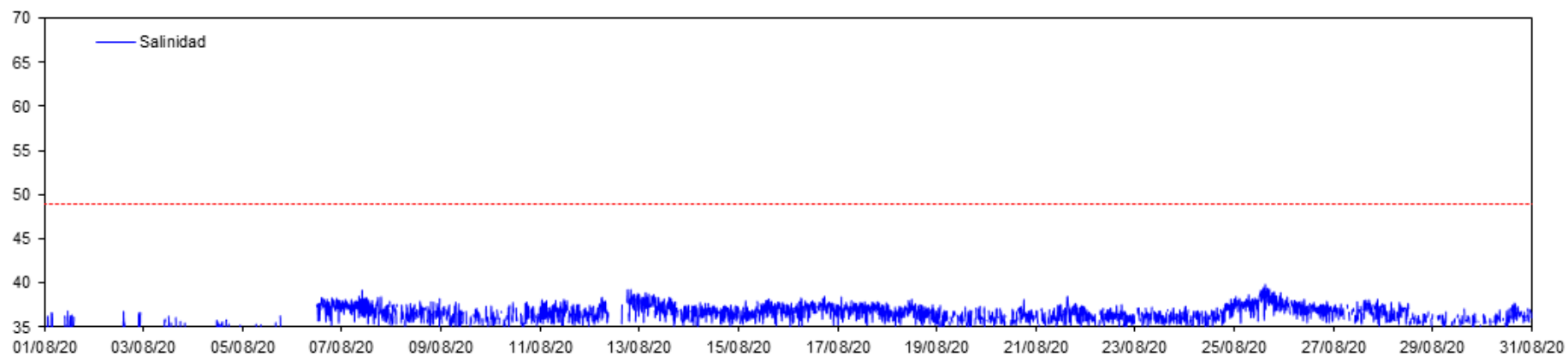
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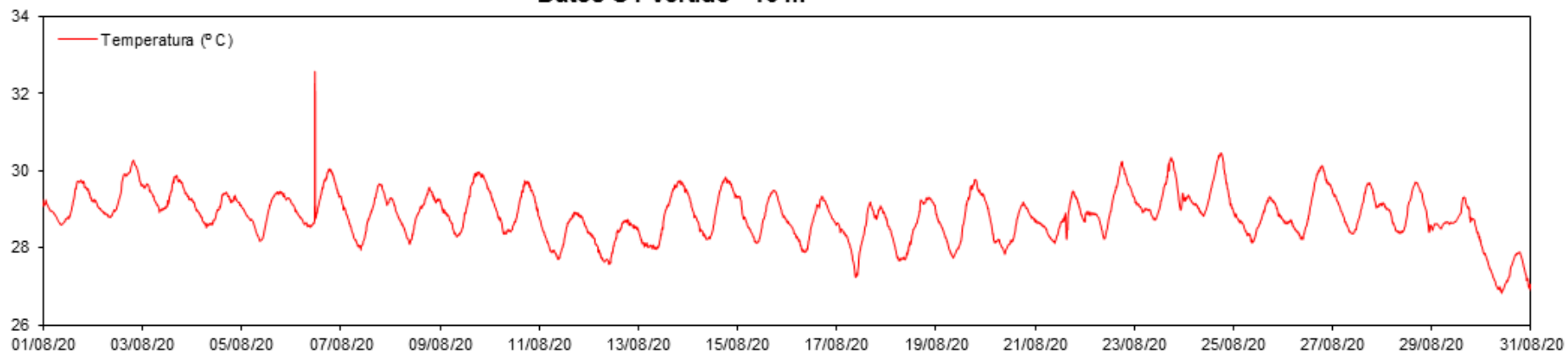
Datos CT Urbanova - 16 m



Datos CT Vertido - 16 m

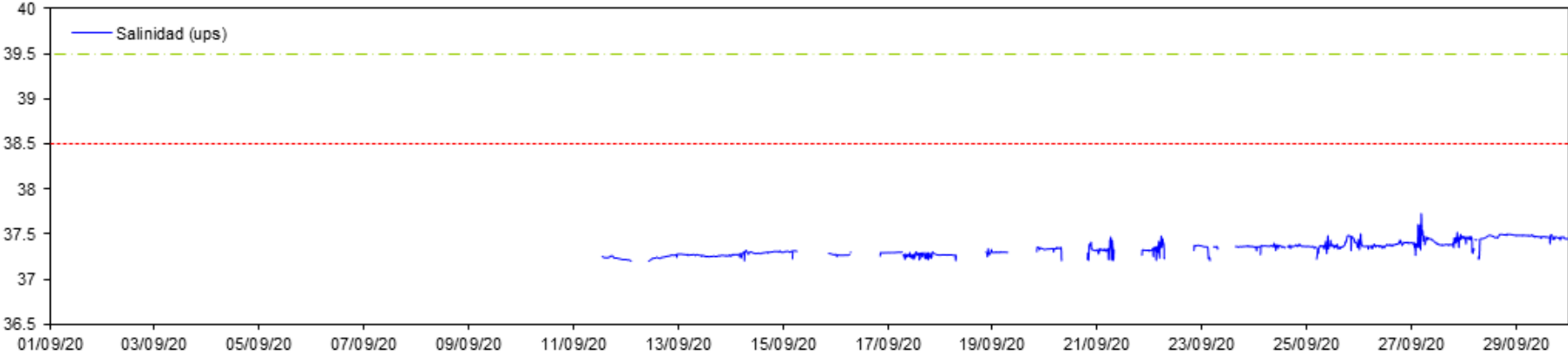


Datos CT Vertido - 16 m

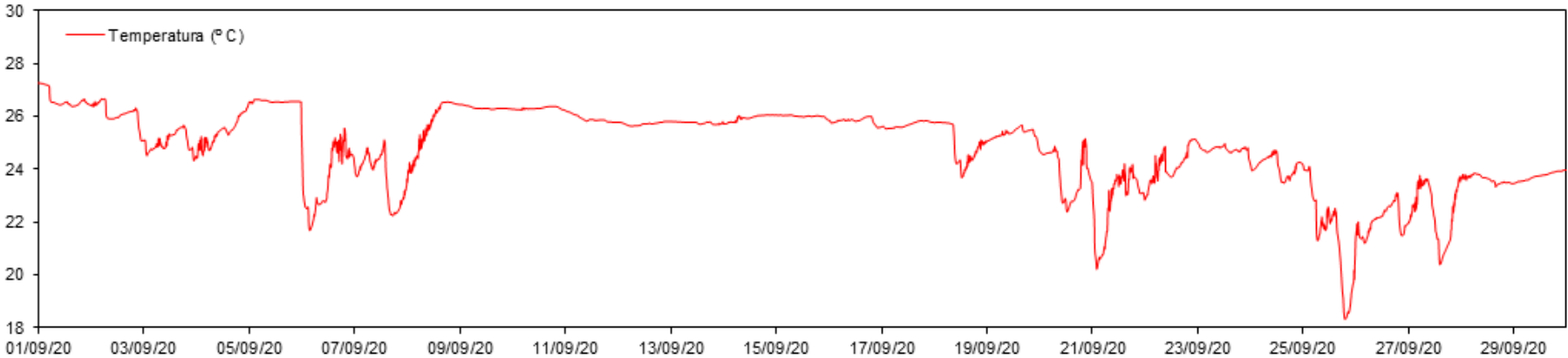


* Datos mensuales (Septiembre):

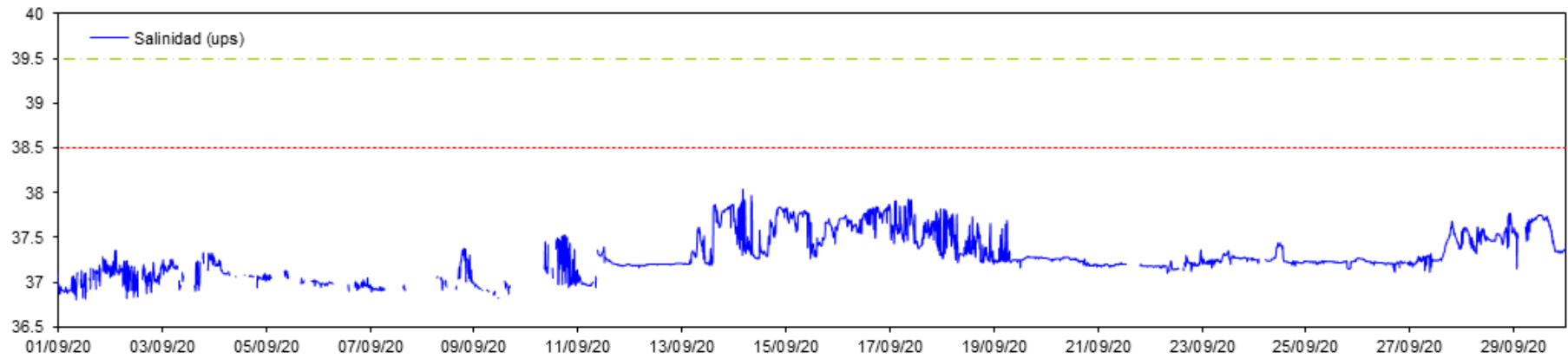
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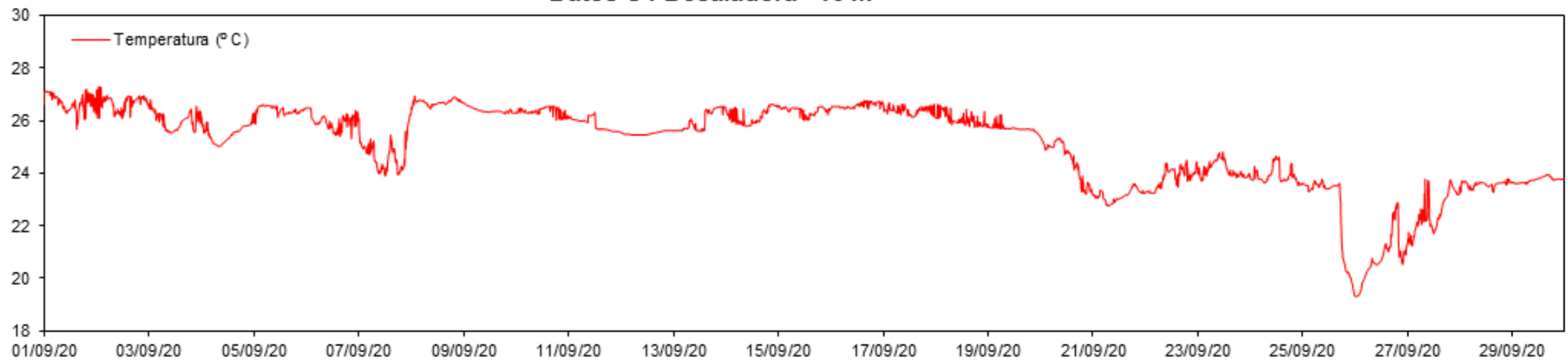
Datos CT Puerto - 16 m



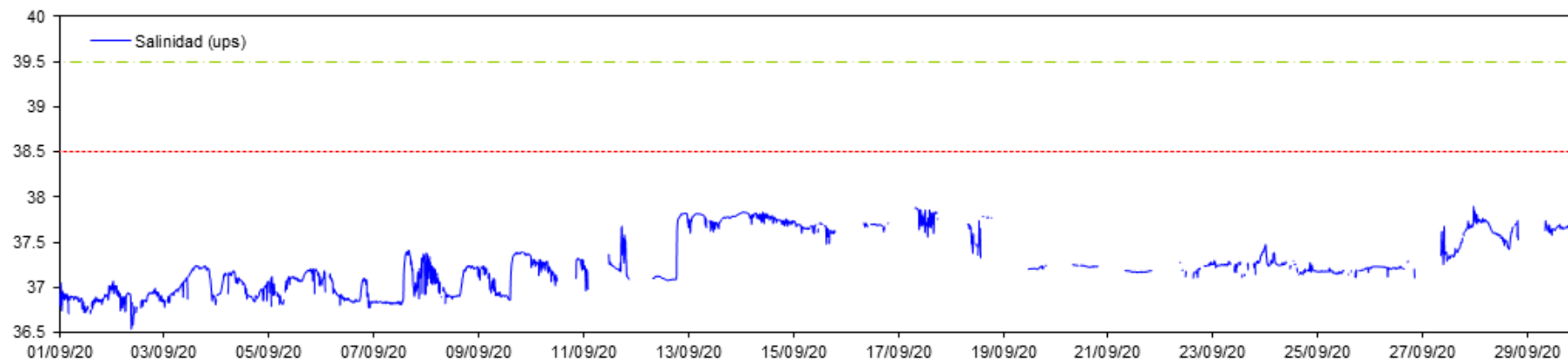
Datos CT Desaladora - 16 m



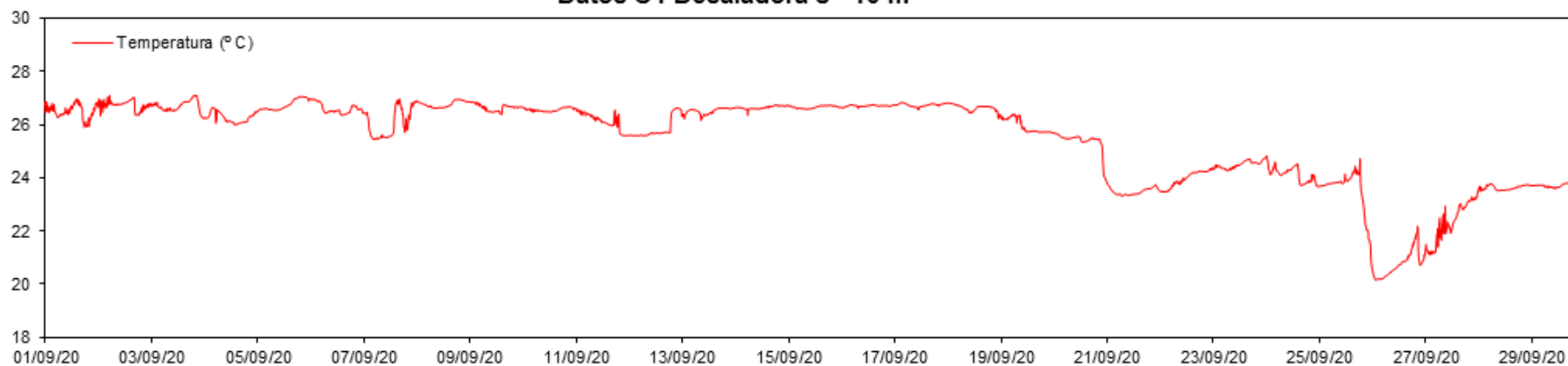
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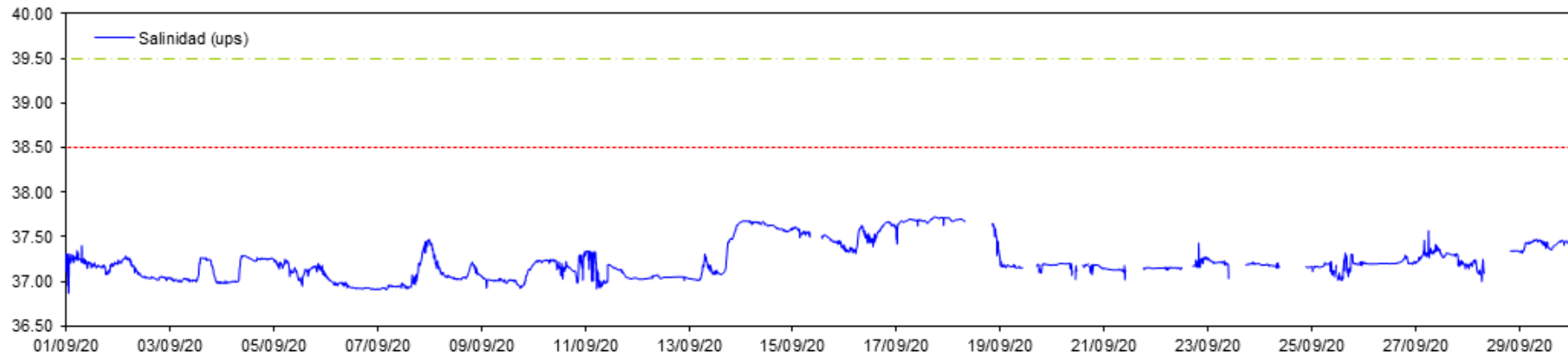
Datos CT Desaladora S - 16 m



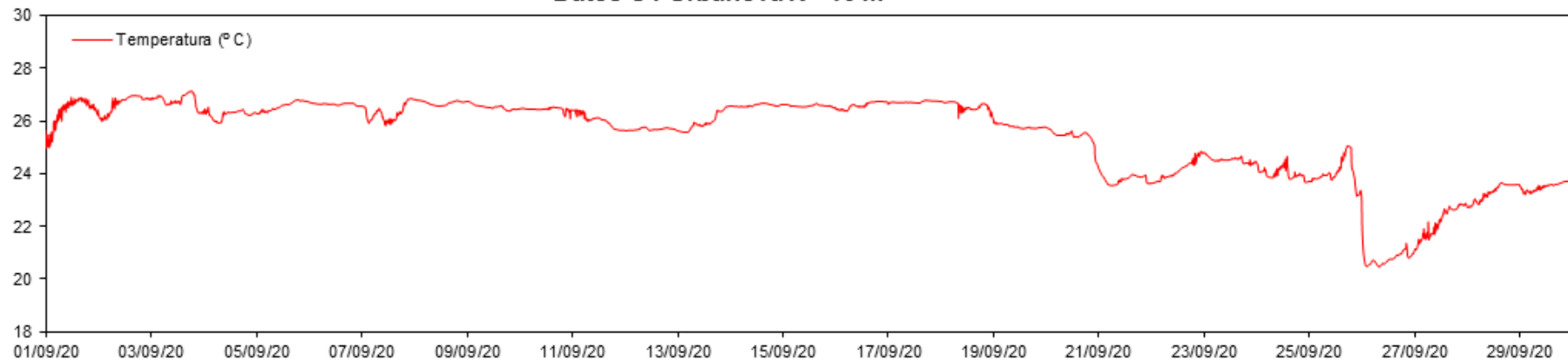
Datos CT Desaladora S - 16 m



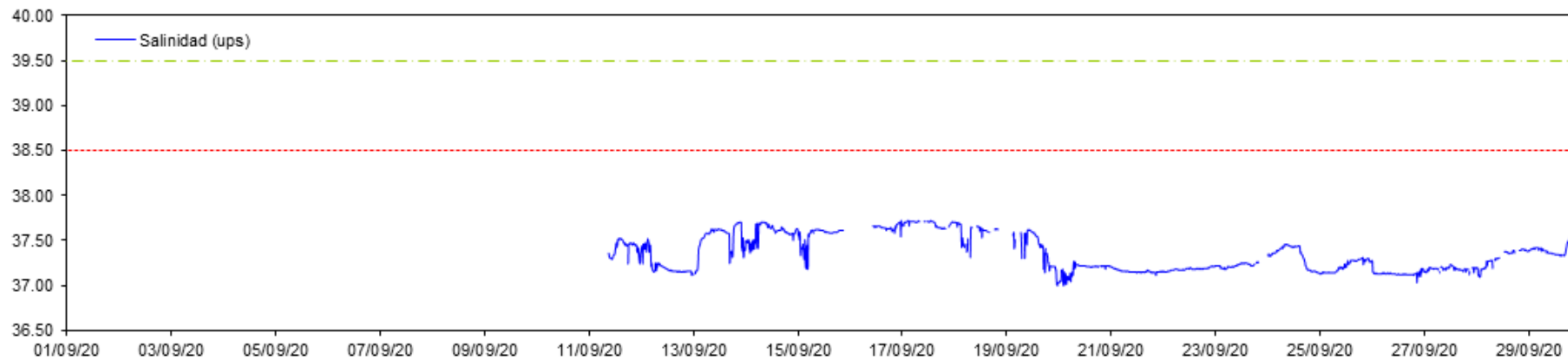
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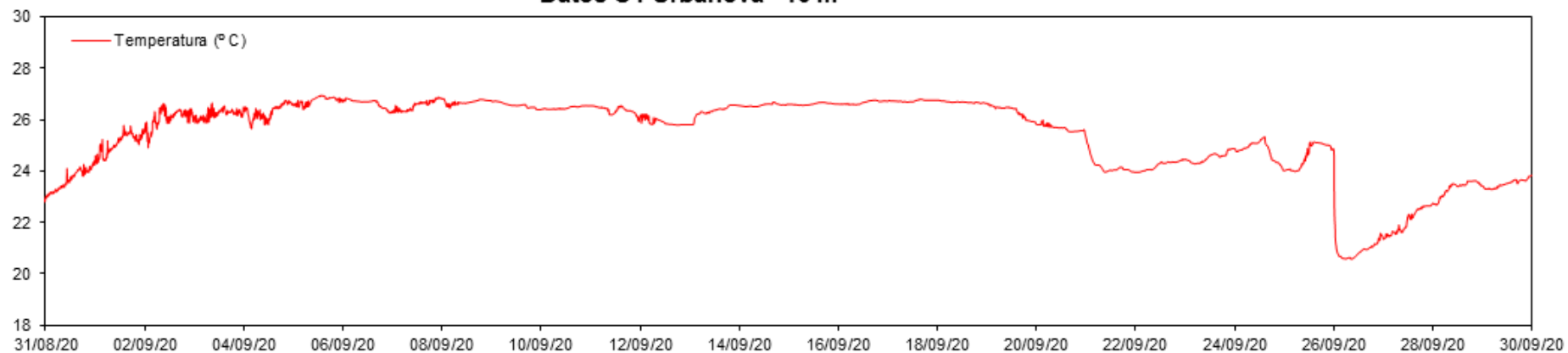
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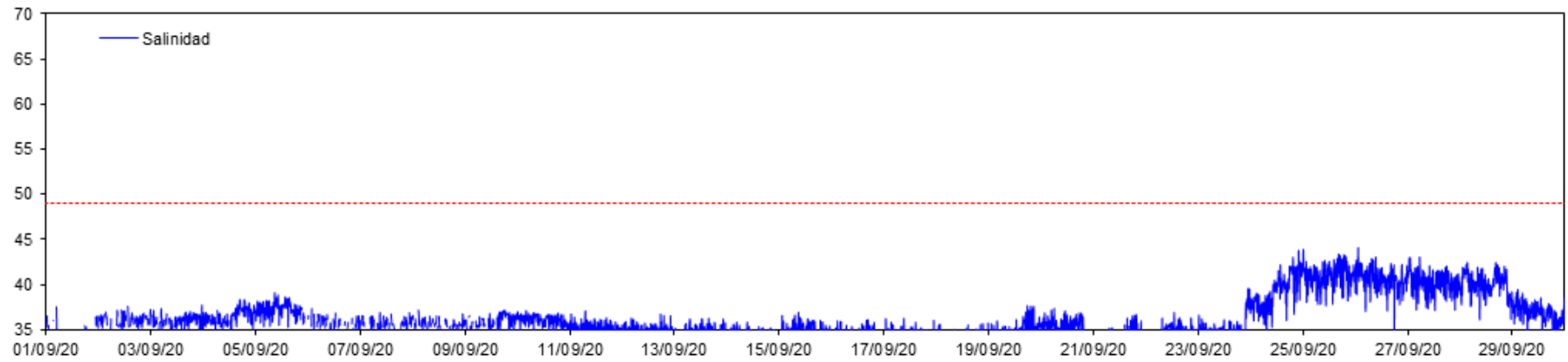
Datos CT Urbanova - 16 m



Datos CT Urbanova - 16 m



Datos CT Vertido - 16 m



Datos CT Vertido - 16 m

