



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. Enero-Marzo de 2017

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 12 de abril de 2017

A handwritten signature in blue ink, consisting of several overlapping strokes.

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

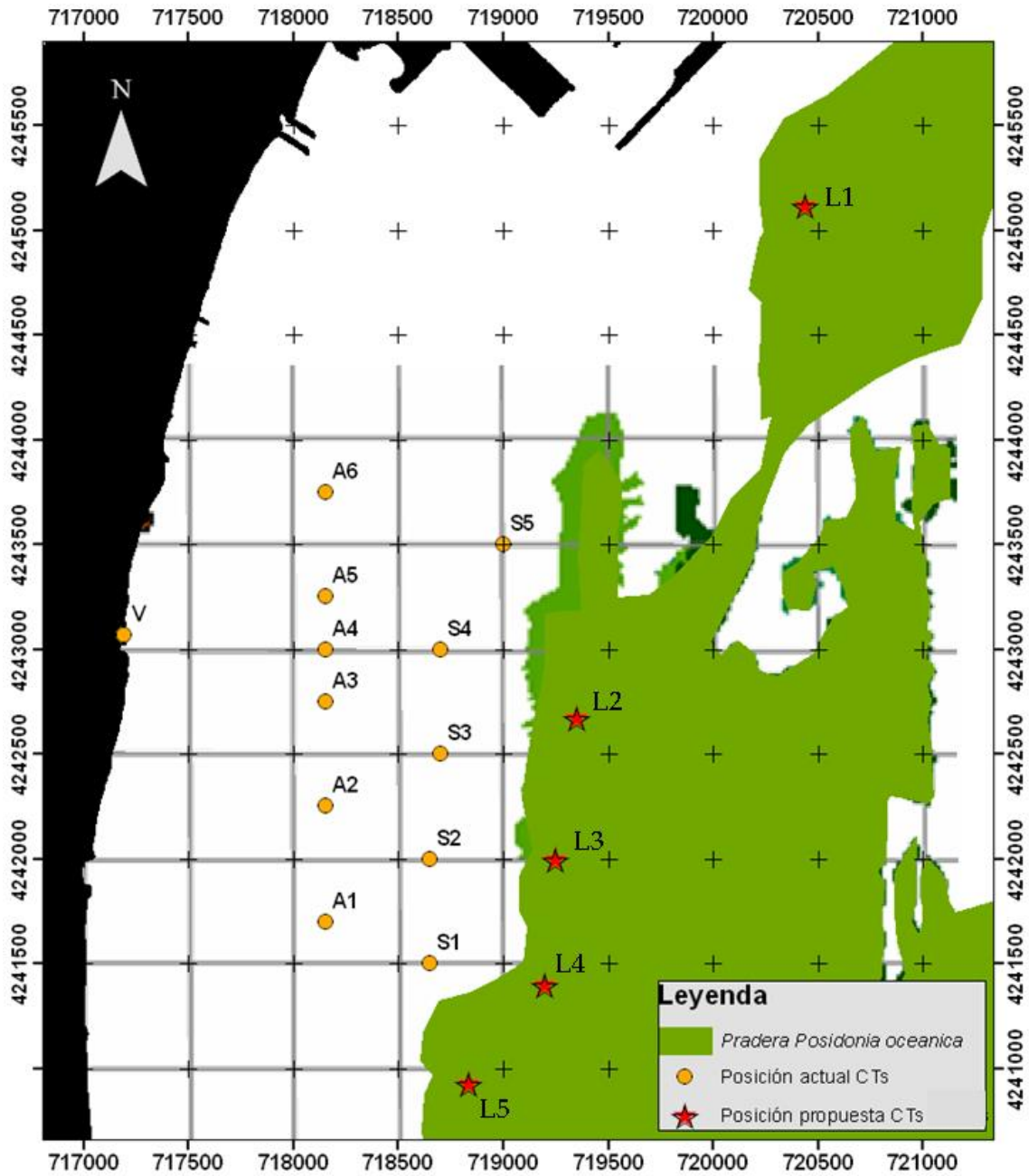


Figura 1: Posición de los sensores.

Mediciones de salinidad y temperatura en el medio receptor

* Enero:

- Salinidades (ups)

| Localidad | Media | Máximo | Mínimo | % > 38.5 | % > 40 |
|--------------------|--------------|---------------|---------------|--------------------|------------------|
| 1 (Control Puerto) | 37.67 | 37.84 | 37.35 | 0.0 | 0.0 |
| 2 (Desaladora) | 37.72 | 38.39 | 37.22 | 0.0 | 0.0 |
| 3 (Desaladora Sur) | 37.67 | 38.10 | 37.27 | 0.0 | 0.0 |
| 4 (Urbanova Norte) | 37.75 | 38.14 | 37.29 | 0.0 | 0.0 |
| 5 (Urbanova) | 37.88 | 38.26 | 37.22 | 0.0 | 0.0 |
| Vertido | 41.26 | 65.74 | 37.02 | % > 49 | 16.0 |

- Temperaturas (° C)

| Punto | Media | Máximo | Mínimo |
|--------------------|--------------|---------------|---------------|
| 1 (Control Puerto) | 14.84 | 16.15 | 13.70 |
| 2 (Desaladora) | 14.79 | 15.89 | 13.85 |
| 3 (Desaladora Sur) | 14.79 | 15.89 | 13.88 |
| 4 (Urbanova Norte) | 14.78 | 15.93 | 13.87 |
| 5 (Urbanova) | 14.74 | 15.90 | 13.71 |
| Vertido | 15.35 | 22.79 | 12.56 |

*** Febrero:**

- Salinidades (ups)

| Localidad | Media | Máximo | Mínimo | % > 38.5 | % > 40 |
|--------------------|--------------|---------------|---------------|--------------------|------------------|
| 1 (Control Puerto) | 37.75 | 37.95 | 37.39 | 0.0 | 0.0 |
| 2 (Desaladora) | 37.79 | 38.45 | 37.18 | 0.0 | 0.0 |
| 3 (Desaladora Sur) | 37.61 | 37.84 | 37.08 | 0.0 | 0.0 |
| 4 (Urbanova Norte) | 37.83 | 38.20 | 37.35 | 0.0 | 0.0 |
| 5 (Urbanova) | 38.02 | 38.30 | 37.70 | 0.0 | 0.0 |
| Vertido | 40.70 | 61.28 | 37.01 | % > 49 | 15.6 |

- Temperaturas (° C)

| Punto | Media | Máximo | Mínimo |
|--------------------|--------------|---------------|---------------|
| 1 (Control Puerto) | 14.27 | 14.74 | 13.71 |
| 2 (Desaladora) | 14.25 | 14.85 | 13.72 |
| 3 (Desaladora Sur) | 14.28 | 14.84 | 13.72 |
| 4 (Urbanova Norte) | 14.25 | 14.78 | 13.73 |
| 5 (Urbanova) | 14.23 | 14.79 | 13.55 |
| Vertido | 15.93 | 22.14 | 12.61 |

*** Marzo:**

- Salinidades (ups)

| Localidad | Media | Máximo | Mínimo | % > 38.5 | % > 40 |
|--------------------|--------------|---------------|---------------|--------------------|------------------|
| 1 (Control Puerto) | 37.60 | 38.02 | 37.00 | 0.0 | 0.0 |
| 2 (Desaladora) | 37.81 | 38.58 | 37.04 | 0.4 | 0.0 |
| 3 (Desaladora Sur) | 37.94 | 38.57 | 37.08 | 2.1 | 0.0 |
| 4 (Urbanova Norte) | 37.76 | 38.31 | 37.28 | 0.0 | 0.0 |
| 5 (Urbanova) | 38.01 | 38.48 | 37.49 | 0.0 | 0.0 |
| Vertido | 42.93 | 66.37 | 37.00 | % > 49 | 17.5 |

- Temperaturas (° C)

| Punto | Media | Máximo | Mínimo |
|--------------------|--------------|---------------|---------------|
| 1 (Control Puerto) | 14.89 | 15.41 | 14.31 |
| 2 (Desaladora) | 15.09 | 16.25 | 14.40 |
| 3 (Desaladora Sur) | 15.18 | 16.21 | 14.42 |
| 4 (Urbanova Norte) | 15.12 | 16.04 | 14.43 |
| 5 (Urbanova) | 15.20 | 16.19 | 14.49 |
| Vertido | 17.00 | 20.77 | 13.89 |

Régimen de funcionamiento de las desalinizadoras

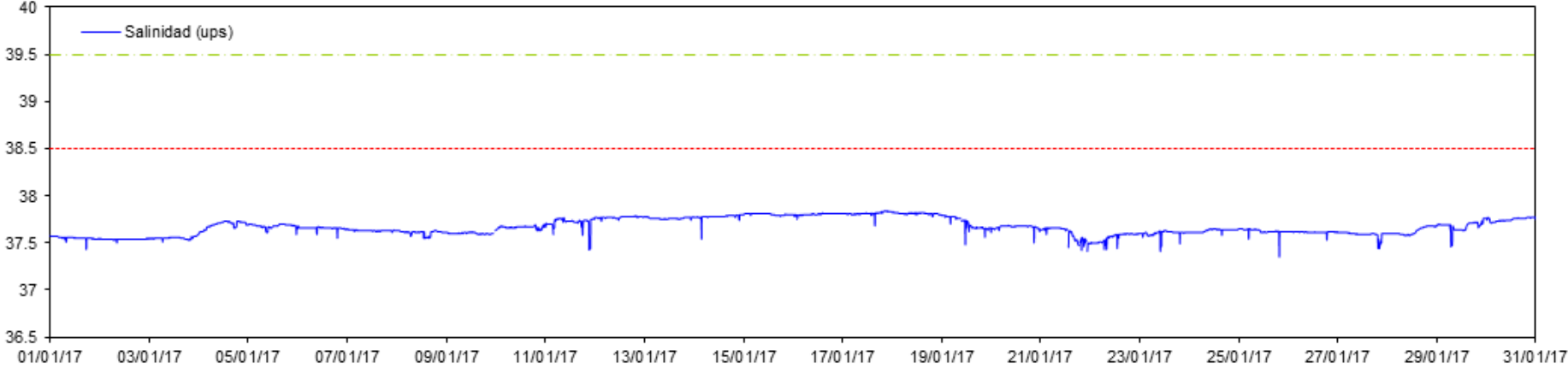
| | Producción Alicante I (m ³ /día) | Producción Alicante II (m ³ /día) | Rechazo Alicante I (m ³ /día) | Rechazo Alicante II (m ³ /día) | CAUDAL vertido (m ³ /h) | CAUDAL Dilución (m ³ /h) | RELACIÓN de dilución |
|------------|---|--|--|---|------------------------------------|-------------------------------------|----------------------|
| 01/01/2017 | 55822 | 8979 | 68478 | 14361 | 3451.6 | 6820 | 2.0 |
| 02/01/2017 | 54017 | 7530 | 65724 | 6956 | 3026.9 | 6820 | 2.3 |
| 03/01/2017 | 26478 | | 33202 | | 1383.4 | 6820 | 4.9 |
| 04/01/2017 | 25101 | | 32203 | | 1341.8 | 6820 | 5.1 |
| 05/01/2017 | 23734 | | 29279 | | 1220.0 | 6820 | 5.6 |
| 06/01/2017 | 26447 | | 33478 | | 1394.9 | 6820 | 4.9 |
| 07/01/2017 | 54859 | 10778 | 67197 | 13285 | 3353.4 | 6820 | 2.0 |
| 08/01/2017 | 53706 | 10262 | 65042 | | 3236.9 | 6820 | 2.1 |
| 09/01/2017 | 38814 | 5245 | 48057 | 5988 | 2251.9 | 6820 | 3.0 |
| 10/01/2017 | 26322 | | 33156 | | 1381.5 | 6820 | 4.9 |
| 11/01/2017 | 27097 | | 34096 | | 1420.7 | 6820 | 4.8 |
| 12/01/2017 | 25650 | | 32219 | | 1342.5 | 6820 | 5.1 |
| 13/01/2017 | 24775 | | 31465 | | 1311.0 | 6820 | 5.2 |
| 14/01/2017 | 27464 | 10538 | 34274 | 15165 | 2060.0 | 6820 | 3.3 |
| 15/01/2017 | 53116 | 9598 | 64992 | 12882 | 3244.8 | 6820 | 2.1 |
| 16/01/2017 | 46019 | 4489 | 56590 | 4281 | 2536.3 | 6820 | 2.7 |
| 17/01/2017 | 26233 | | 33265 | | 1386.0 | 6820 | 4.9 |
| 18/01/2017 | 25014 | | 31823 | | 1326.0 | 6820 | 5.1 |
| 19/01/2017 | 25202 | | 32578 | | 1357.4 | 6820 | 5.0 |
| 20/01/2017 | 24937 | 0 | 32337 | 2138 | 1436.5 | 6820 | 4.7 |
| 21/01/2017 | 16924 | 10456 | 21896 | 14136 | 1590.6 | 6820 | 4.3 |
| 22/01/2017 | 31029 | 9274 | 38419 | 11951 | 2098.8 | 6820 | 3.2 |
| 23/01/2017 | 47072 | 4073 | 58833 | 3978 | 2617.1 | 6820 | 2.6 |
| 24/01/2017 | 24506 | | 31731 | | 1322.1 | 6820 | 5.2 |
| 25/01/2017 | 23898 | | 30806 | | 1283.6 | 6820 | 5.3 |
| 26/01/2017 | 24456 | | 32034 | | 1334.8 | 6820 | 5.1 |
| 27/01/2017 | 25601 | 3616 | 32528 | 6094 | 1609.3 | 6820 | 4.2 |
| 28/01/2017 | 26889 | 10829 | 33609 | 13147 | 1948.2 | 6820 | 3.5 |
| 29/01/2017 | 54427 | 10815 | 67401 | 13250 | 3360.5 | 6820 | 2.0 |
| 30/01/2017 | 53381 | 4221 | 65173 | 4521 | 2903.9 | 6820 | 2.3 |
| 31/01/2017 | 26767 | | 33937 | | 1414.0 | 6820 | 4.8 |

| | 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 |
|------------|--|---|---|--|---|--|-----------------------------|
| 01/02/2017 | 25893 | | 33371 | | 1390.5 | 6820 | 4.9 |
| 02/02/2017 | 22744 | | 29026 | | 1209.4 | 6820 | 5.6 |
| 03/02/2017 | 24295 | 0 | 31426 | 2570 | 1416.5 | 6820 | 4.8 |
| 04/02/2017 | 23830 | 8732 | 30928 | 13313 | 1843.4 | 6820 | 3.7 |
| 05/02/2017 | 54338 | 10698 | 65857 | 12777 | 3276.4 | 6820 | 2.1 |
| 06/02/2017 | 50366 | 4210 | 63860 | 4288 | 2839.5 | 6820 | 2.4 |
| 07/02/2017 | 23645 | | 30822 | | 1284.3 | 6820 | 5.3 |
| 08/02/2017 | 24930 | | 31545 | | 1314.4 | 6820 | 5.2 |
| 09/02/2017 | 26372 | | 33160 | | 1381.7 | 6820 | 4.9 |
| 10/02/2017 | 24763 | 0 | 31388 | 1754 | 1380.9 | 6820 | 4.9 |
| 11/02/2017 | 26561 | 7762 | 33742 | 12962 | 1946.0 | 6820 | 3.5 |
| 12/02/2017 | 40236 | 6872 | 49132 | 7908 | 2376.7 | 6820 | 2.9 |
| 13/02/2017 | 37590 | | 45610 | | 1900.4 | 6820 | 3.6 |
| 14/02/2017 | 25236 | | 33067 | | 1377.8 | 6820 | 4.9 |
| 15/02/2017 | 22665 | | 29429 | | 1226.2 | 6820 | 5.6 |
| 16/02/2017 | 25643 | | 32785 | | 1366.0 | 6820 | 5.0 |
| 17/02/2017 | 24807 | 0 | 31585 | 3092 | 1444.9 | 6820 | 4.7 |
| 18/02/2017 | 26318 | 10281 | 33971 | 12233 | 1925.2 | 6820 | 3.5 |
| 19/02/2017 | 55863 | 10114 | 67840 | 12958 | 3366.6 | 6820 | 2.0 |
| 20/02/2017 | 51466 | 1288 | 64227 | 3781 | 2833.7 | 6820 | 2.4 |
| 21/02/2017 | 0 | | 0 | | 0.0 | | |
| 22/02/2017 | 0 | | 0 | | 0.0 | | |
| 23/02/2017 | 0 | | 0 | | 0.0 | | |
| 24/02/2017 | 0 | | 0 | | 0.0 | | |
| 25/02/2017 | 0 | | 0 | | 0.0 | | |
| 26/02/2017 | 0 | | 0 | | 0.0 | | |
| 27/02/2017 | 0 | | 0 | | 0.0 | | |
| 28/02/2017 | 0 | | 0 | | 0.0 | | |

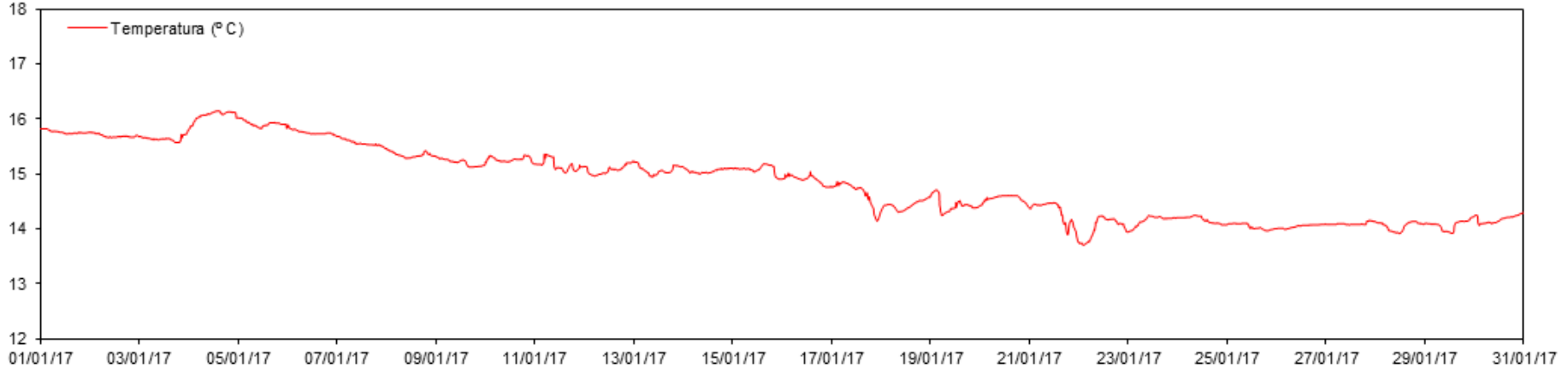
| | Producción Alicante I (m³/día) | Producción Alicante II (m³/día) | Rechazo Alicante I (m³/día) | Rechazo Alicante II (m³/día) | CAUDAL vertido (m³/ h) | CAUDAL Dilución (m³/ h) | RELACIÓN de dilución |
|------------|---------------------------------------|--|------------------------------------|-------------------------------------|-------------------------------|--------------------------------|-----------------------------|
| 01/03/2017 | 0 | | 0 | | 0.0 | | |
| 02/03/2017 | 0 | | 0 | | 0.0 | | |
| 03/03/2017 | 0 | | 0 | | 0.0 | | |
| 04/03/2017 | 0 | 1609 | 0 | 5958 | 248.3 | | |
| 05/03/2017 | 0 | | 0 | | 0.0 | | |
| 06/03/2017 | 0 | | 0 | | 0.0 | | |
| 07/03/2017 | 0 | 518 | 0 | | 0.0 | | |
| 08/03/2017 | 0 | 7215 | 0 | 10617 | 442.4 | | |
| 09/03/2017 | 16359 | 20122 | 21971 | 26345 | 2013.2 | 6820 | 3.4 |
| 10/03/2017 | 26856 | 19200 | 34996 | 25980 | 2540.7 | 6820 | 2.7 |
| 11/03/2017 | 26428 | 21081 | 33784 | 25926 | 2487.9 | 6820 | 2.7 |
| 12/03/2017 | 50348 | 21073 | 64979 | 13304 | 3261.8 | 6820 | 2.1 |
| 13/03/2017 | 52458 | 10143 | 66350 | 26020 | 3848.8 | 6820 | 1.8 |
| 14/03/2017 | 27016 | | 35474 | | 1478.1 | 6820 | 4.6 |
| 15/03/2017 | 14414 | | 18987 | 1988 | 874.0 | 6820 | 7.8 |
| 16/03/2017 | 25120 | 15980 | 32364 | 21507 | 2244.6 | 6820 | 3.0 |
| 17/03/2017 | 25677 | 17737 | 33049 | 23246 | 2345.6 | 6820 | 2.9 |
| 18/03/2017 | 27327 | 22031 | 35334 | 27561 | 2620.6 | 6820 | 2.6 |
| 19/03/2017 | 53002 | 21655 | 66285 | 26023 | 3846.2 | 6820 | 1.8 |
| 20/03/2017 | 52182 | 31949 | 66867 | 39273 | 4422.5 | 6820 | 1.5 |
| 21/03/2017 | 25425 | 40781 | 32844 | 50611 | 3477.3 | 6820 | 2.0 |
| 22/03/2017 | 26429 | 39451 | 33687 | 51510 | 3549.9 | 6820 | 1.9 |
| 23/03/2017 | 26485 | 35149 | 34642 | 51682 | 3596.8 | 6820 | 1.9 |
| 24/03/2017 | 25794 | 36623 | 33291 | 46024 | 3304.8 | 6820 | 2.1 |
| 25/03/2017 | 26165 | 28309 | 33693 | 34566 | 2844.1 | 6820 | 2.4 |
| 26/03/2017 | 50783 | 19708 | 64446 | 25142 | 3732.8 | 6820 | 1.8 |
| 27/03/2017 | 50689 | 24593 | 63424 | 30911 | 3930.6 | 6820 | 1.7 |
| 28/03/2017 | 25320 | 30488 | 33529 | 39017 | 3022.8 | 6820 | 2.3 |
| 29/03/2017 | 26335 | | 39518 | | 3264.8 | 6820 | 2.1 |
| 30/03/2017 | 27776 | | 30916 | | 2939.6 | 6820 | 2.3 |
| 31/03/2017 | 26786 | | 33647 | | 2698.9 | 6820 | 2.5 |

* Datos mensuales (Enero):

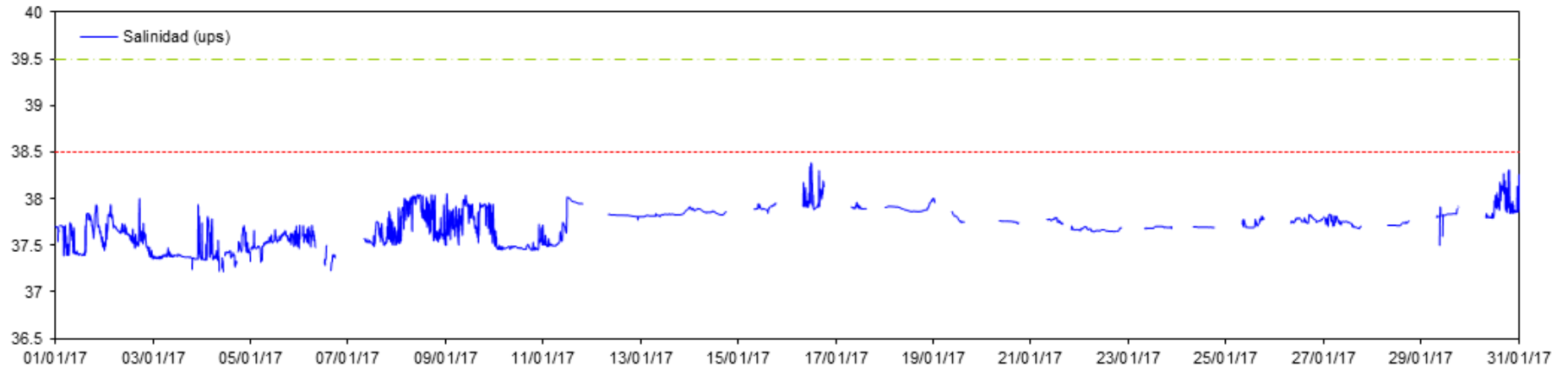
Datos CT Puerto - 16 m



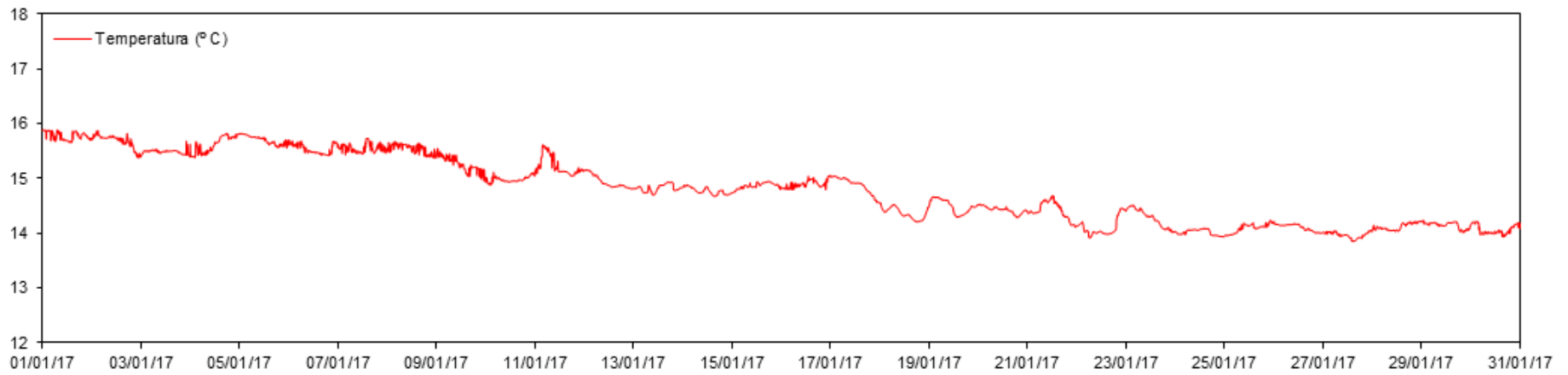
Datos CT Puerto - 16 m



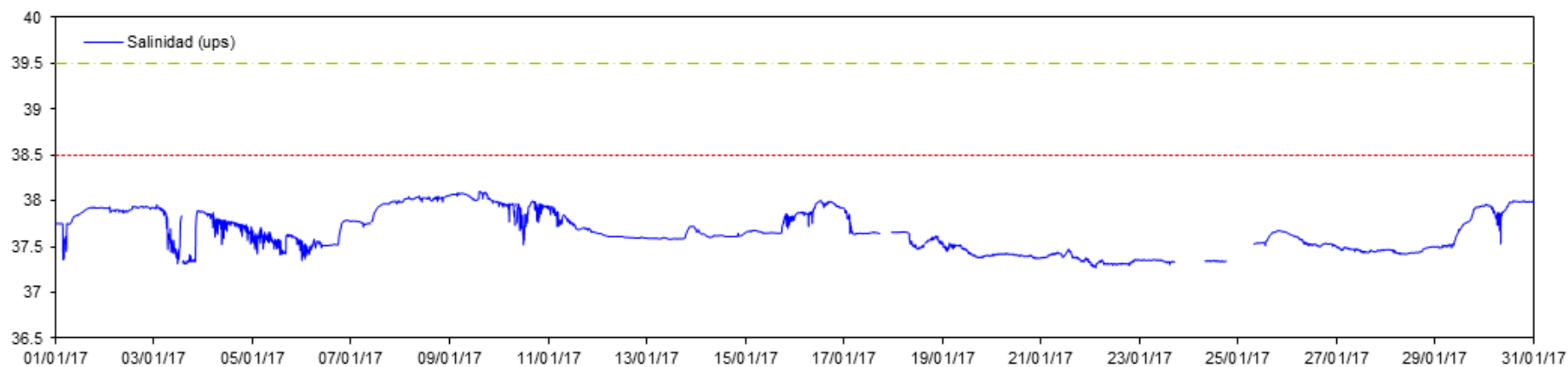
Datos CT Desaladora - 16 m



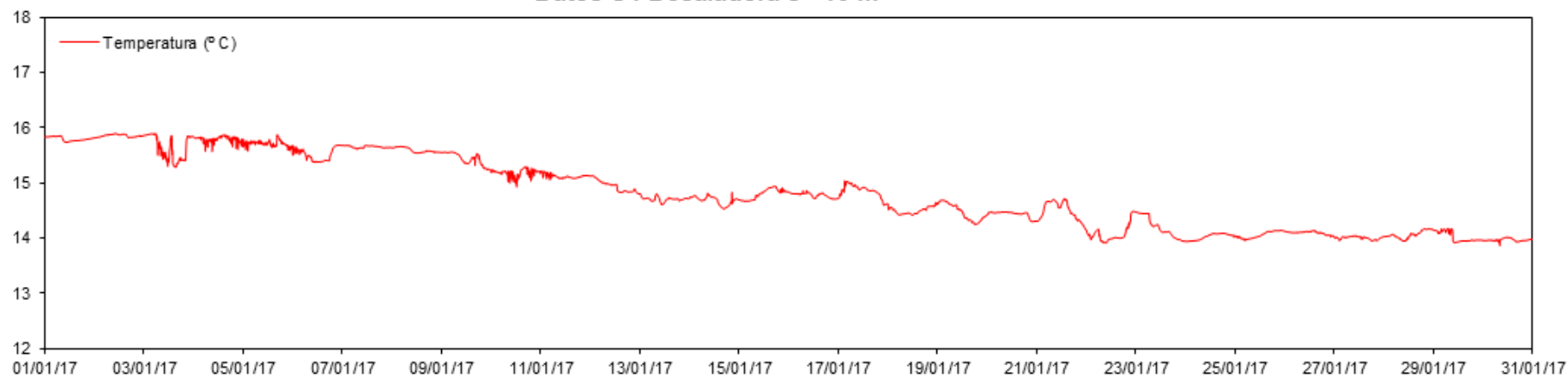
Datos CT Desaladora - 16 m



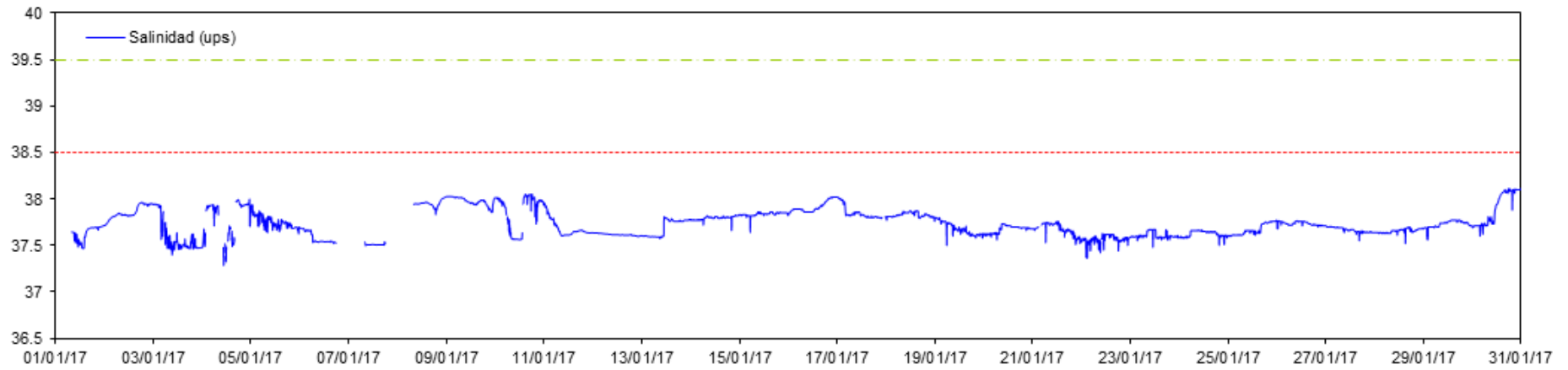
Datos CT Desaladora S - 16 m



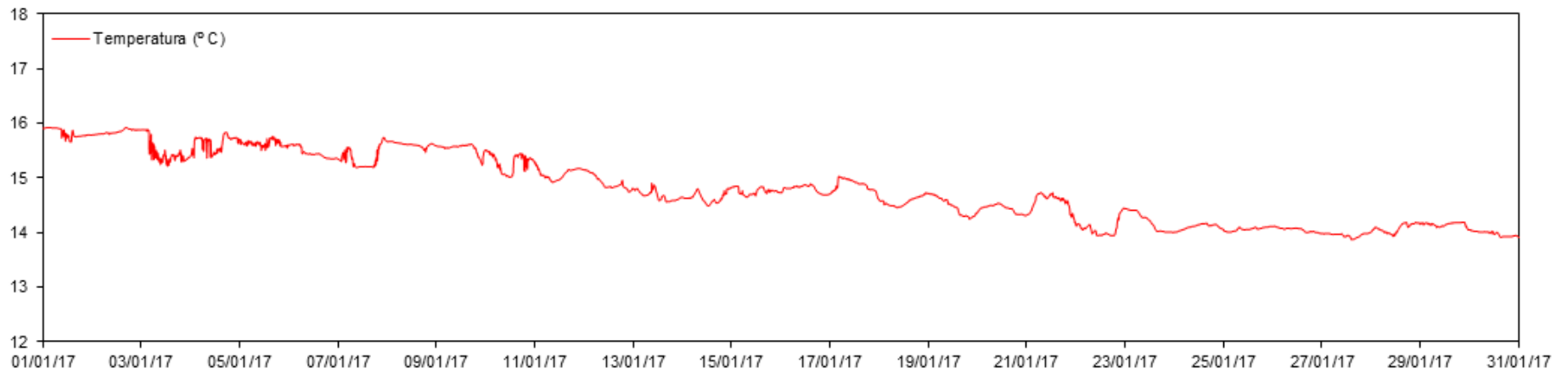
Datos CT Desaladora S - 16 m



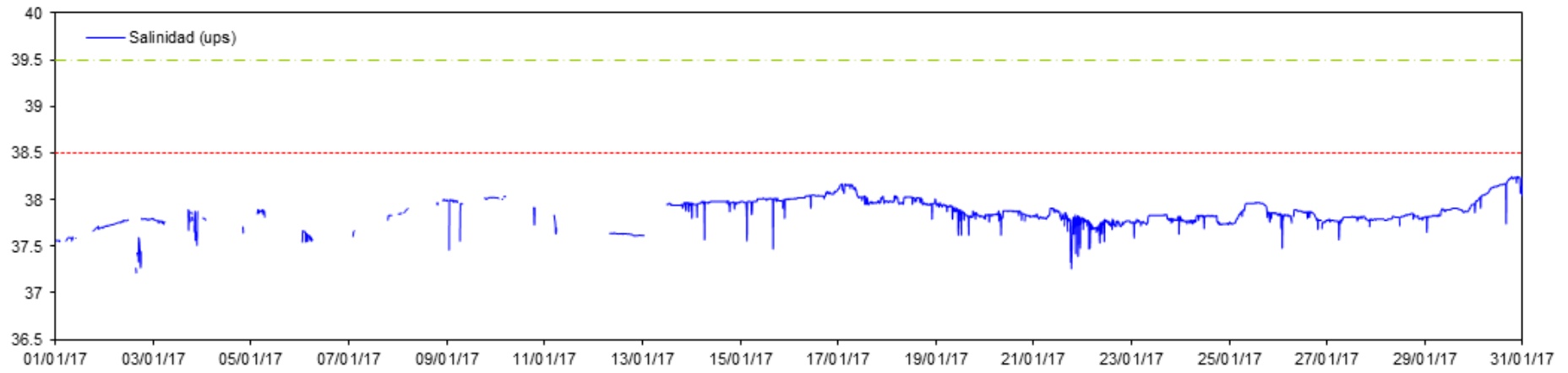
Datos CT Urbanova N - 16 m



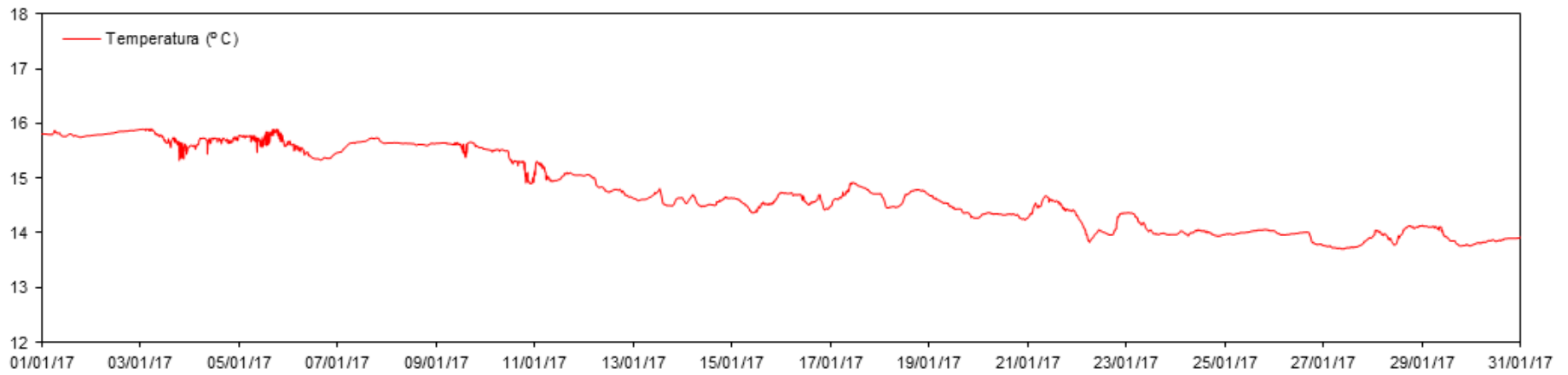
Datos CT Urbanova N - 16 m



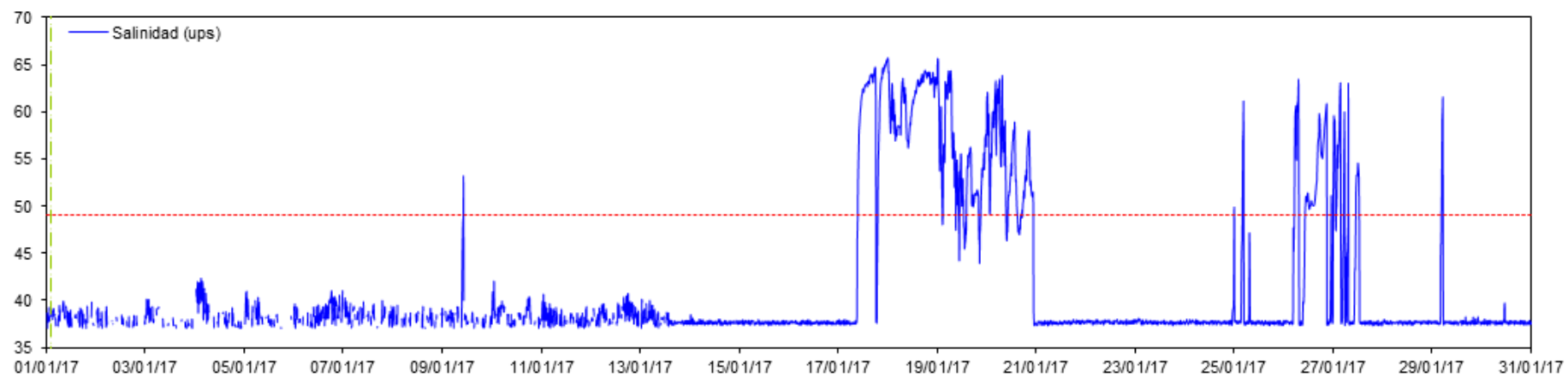
Datos CT Urbanova - 16 m



Datos CT Urbanova - 16 m



Datos CT Vertido - 16 m

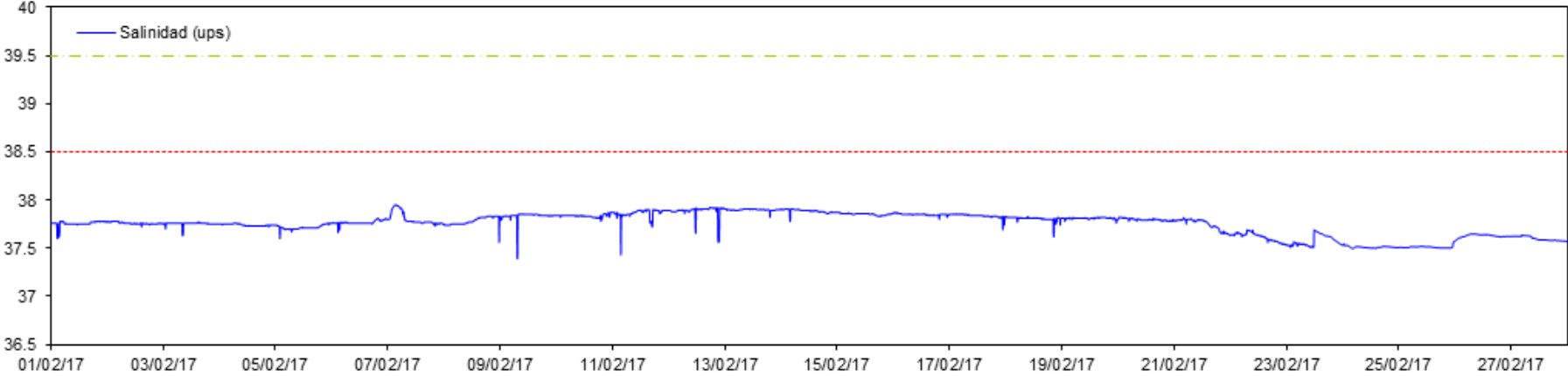


Datos CT Vertido - 16 m

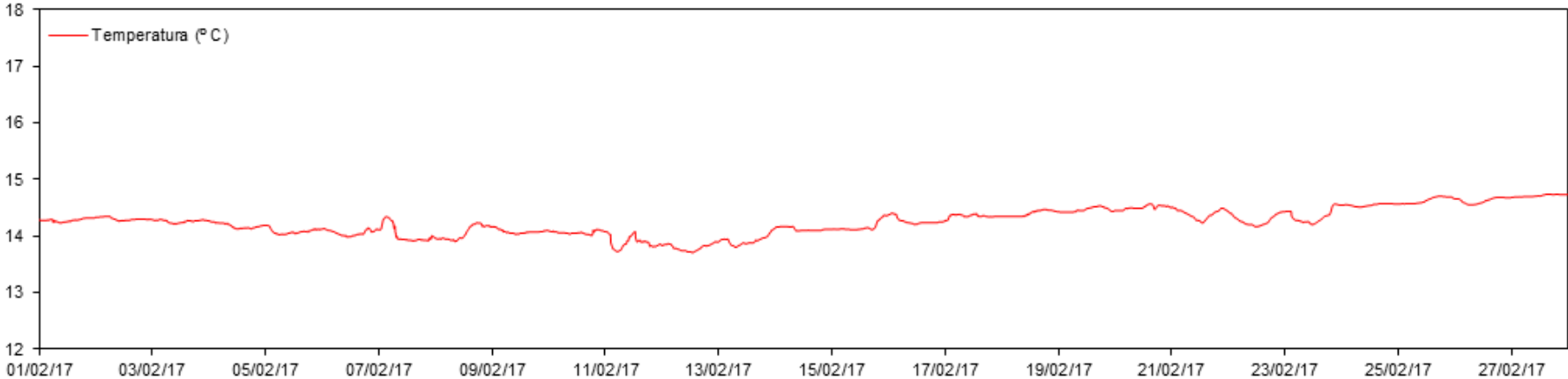


* Datos mensuales (Febrero):

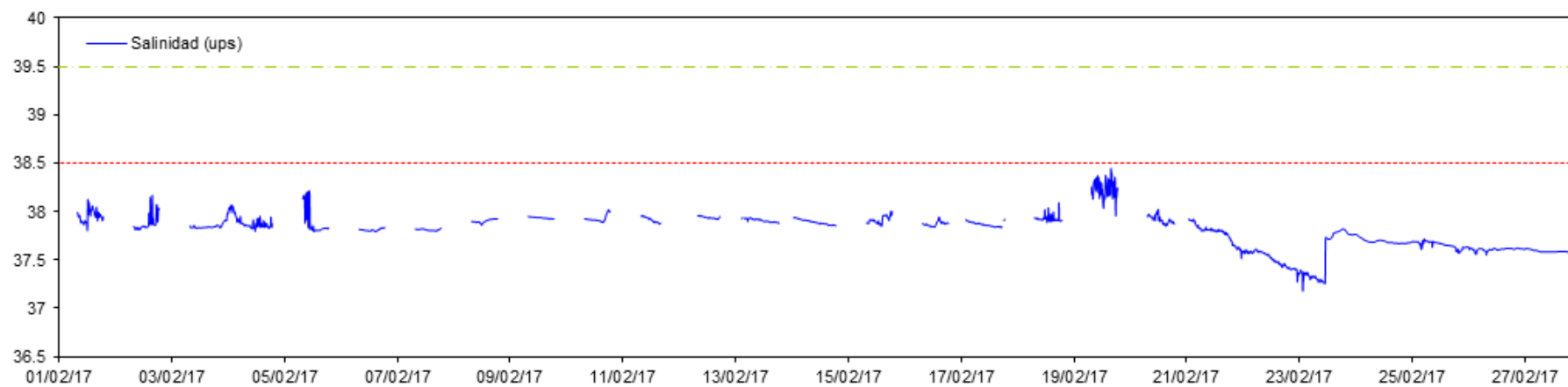
Datos CT Puerto - 16 m



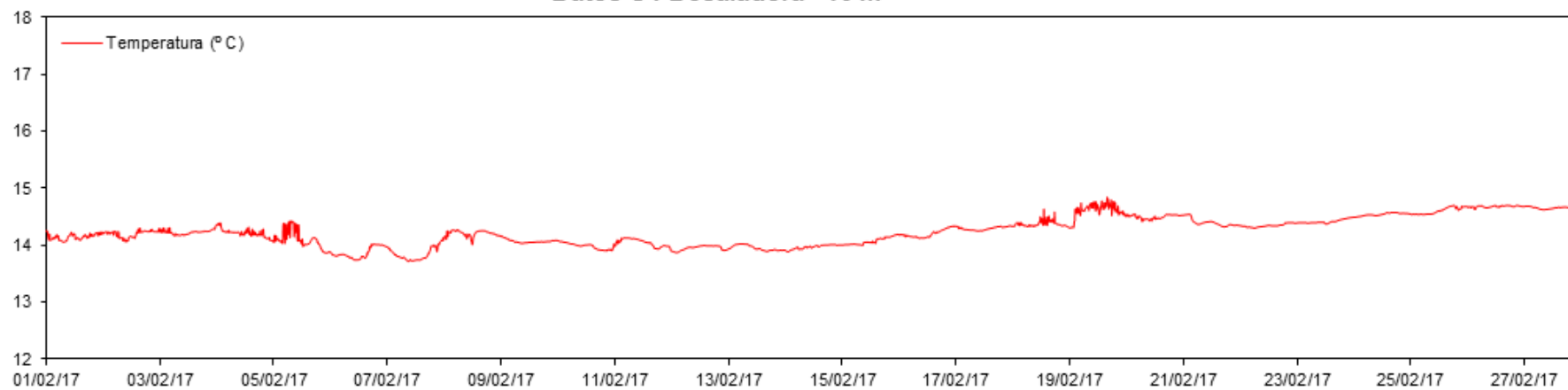
Datos CT Puerto - 16 m



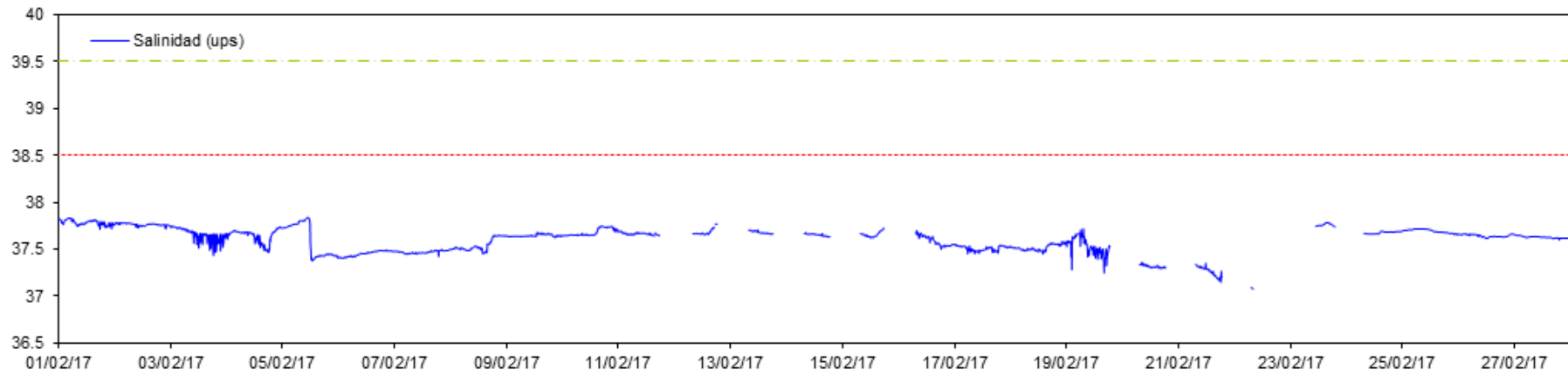
Datos CT Desaladora - 16 m



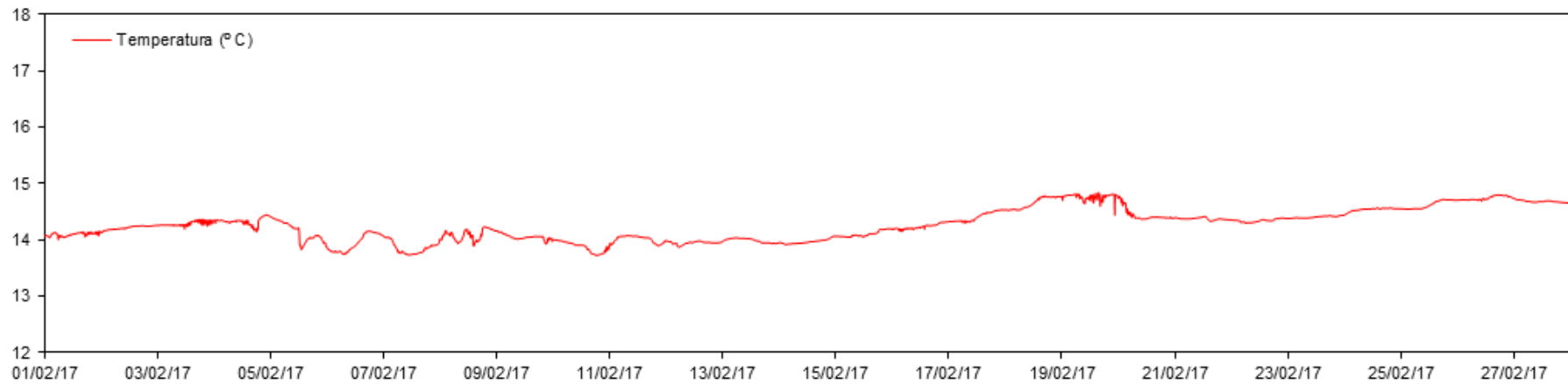
Datos CT Desaladora - 16 m



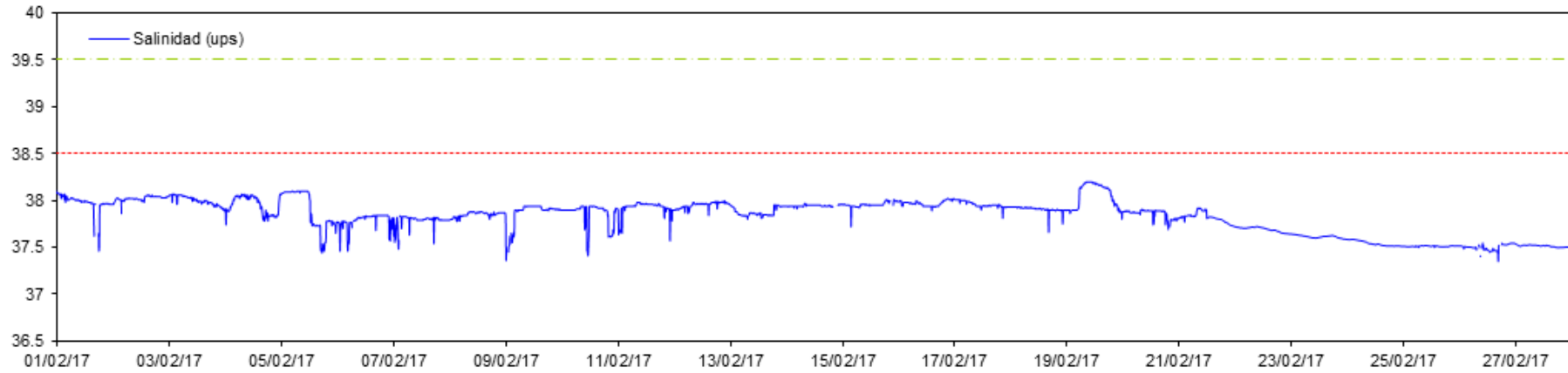
Datos CT Desaladora S - 16 m



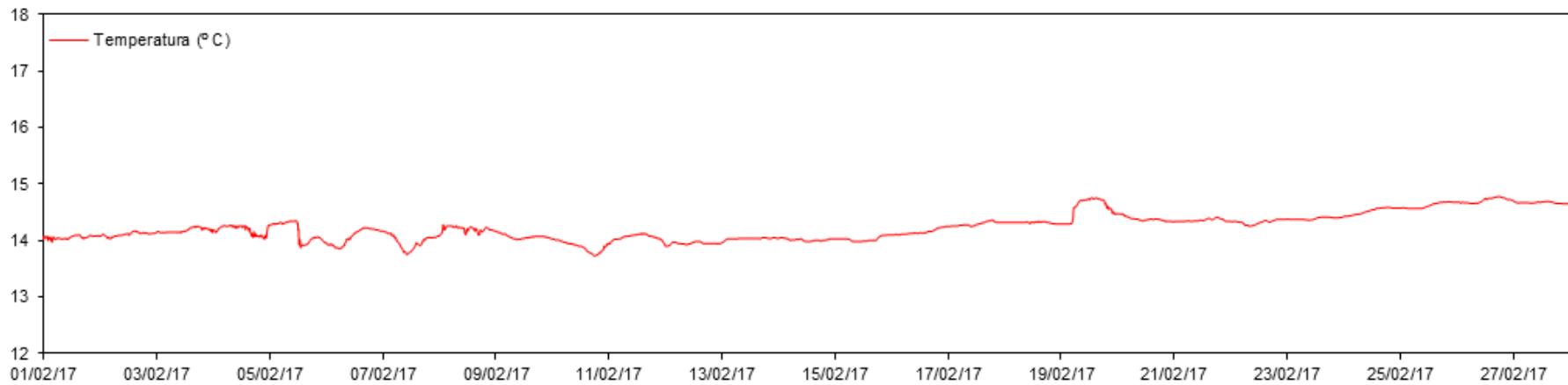
Datos CT Desaladora S - 16 m



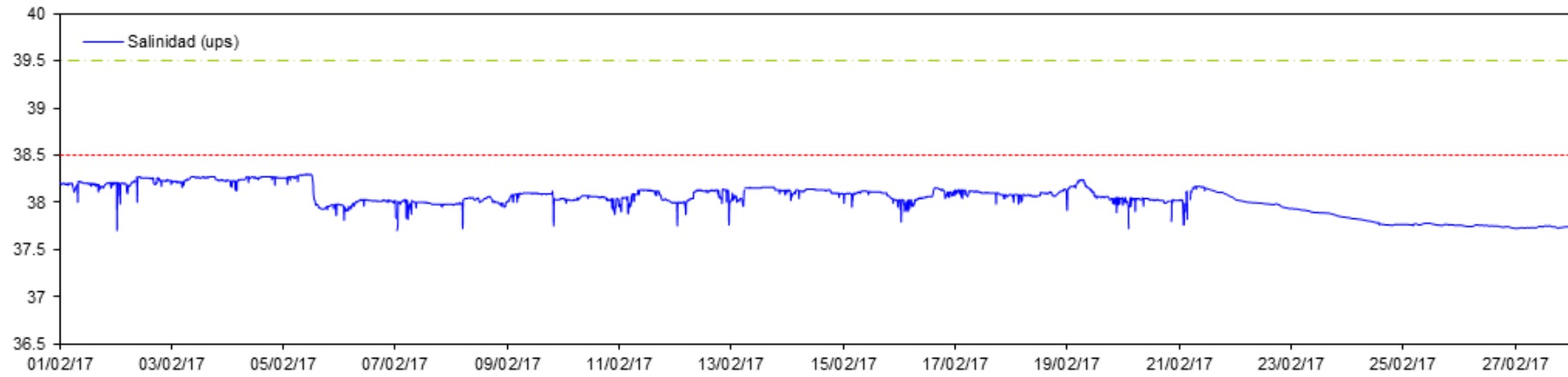
Datos CT Urbanova N - 16 m



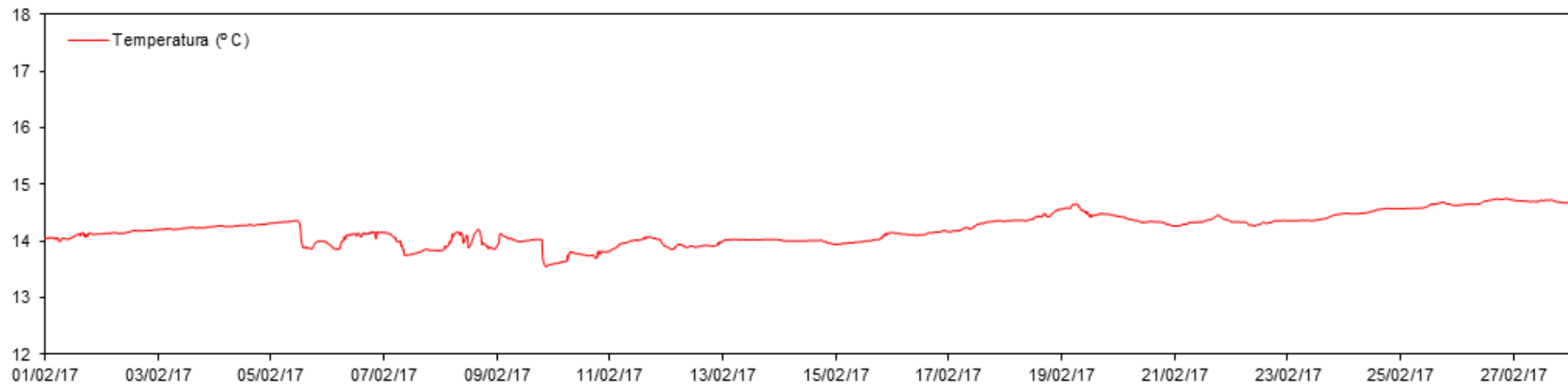
Datos CT Urbanova N - 16 m



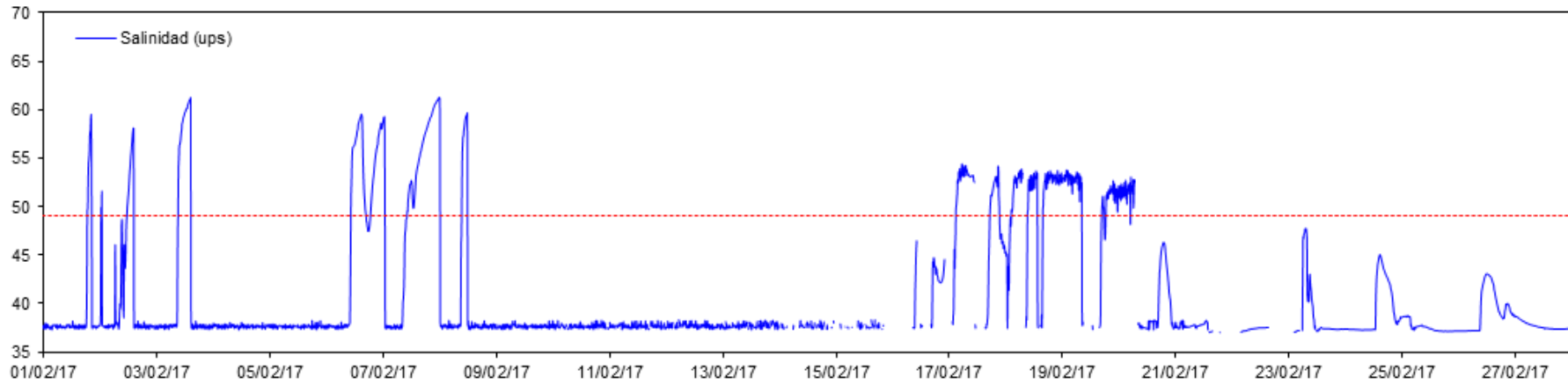
Datos CT Urbanova - 16 m



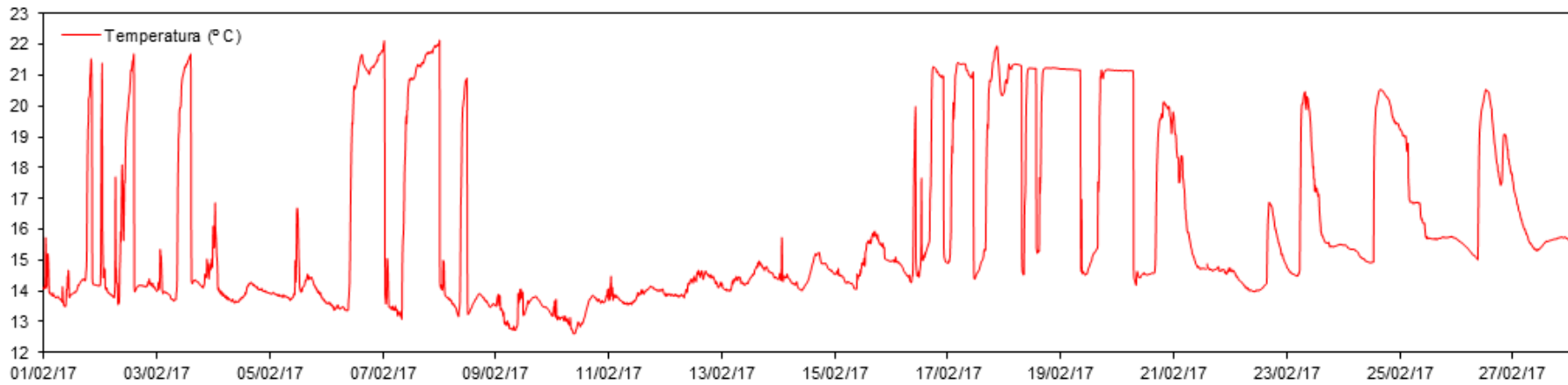
Datos CT Urbanova - 16 m



Datos CT Vertido - 16 m



Datos CT Vertido - 16 m

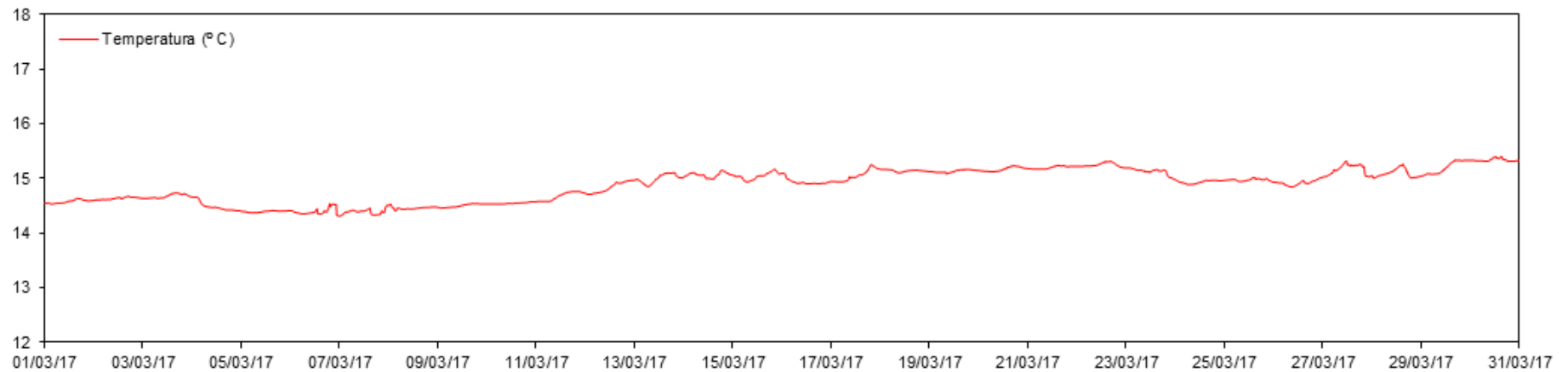


* Datos mensuales (Marzo):

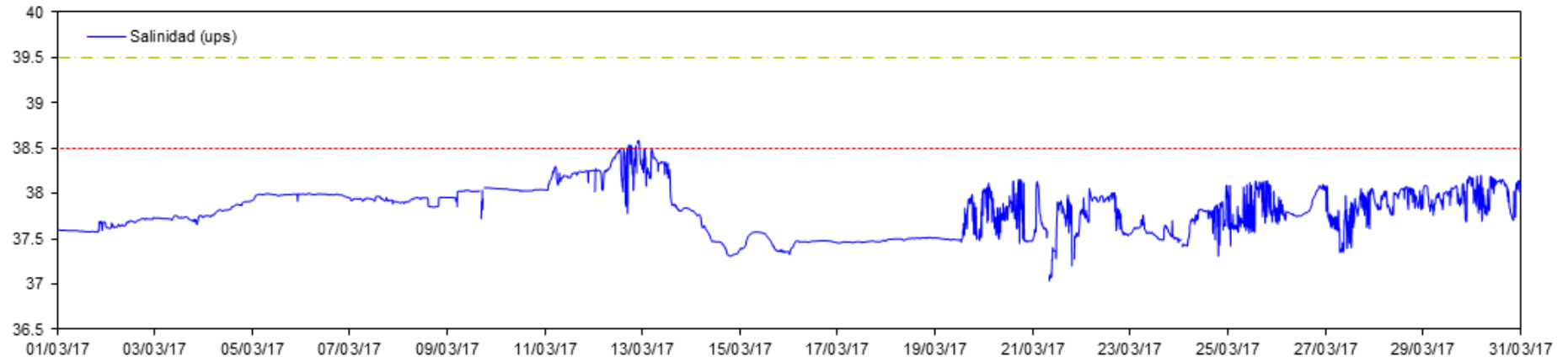
Datos CT Puerto - 16 m



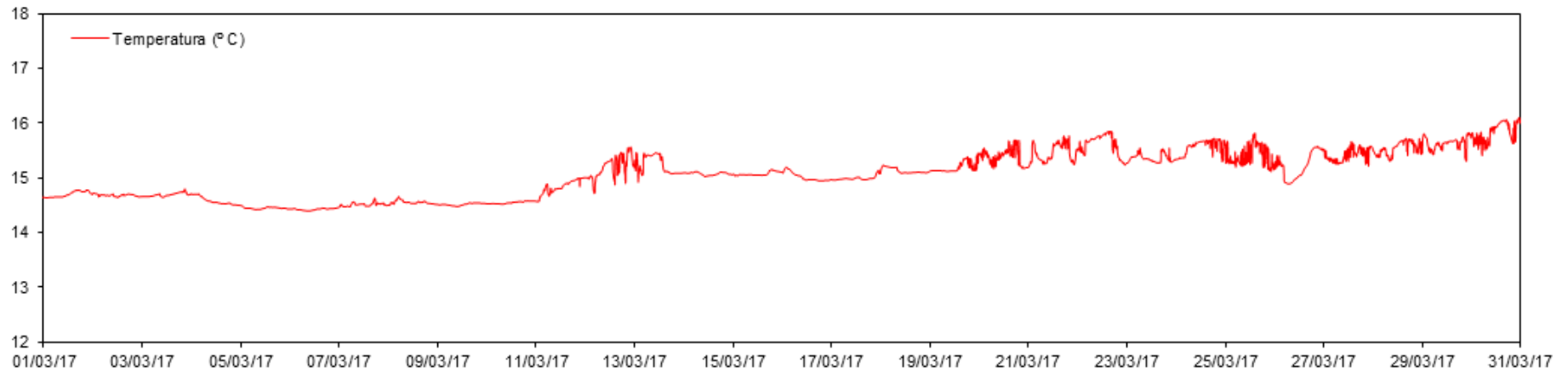
Datos CT Puerto - 16 m



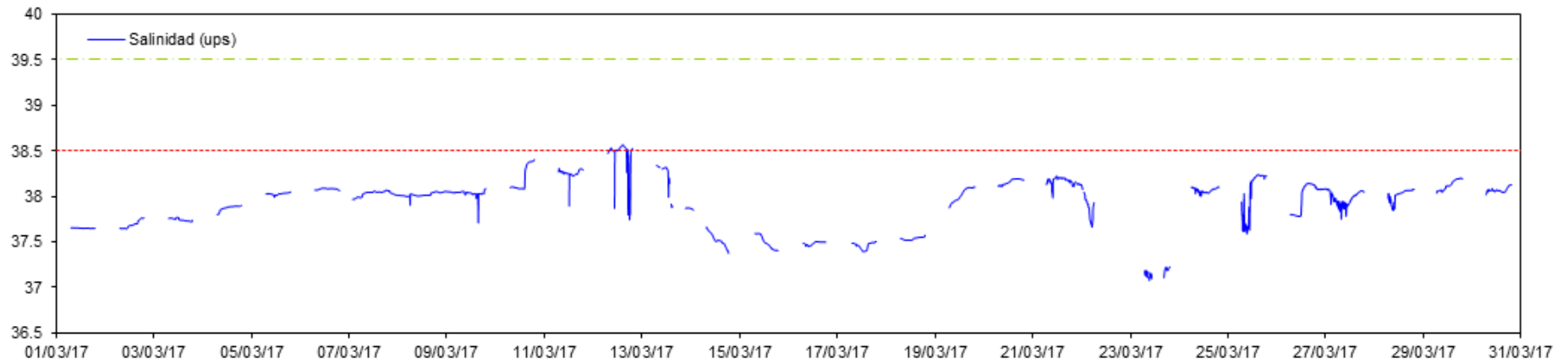
Datos CT Desaladora - 16 m



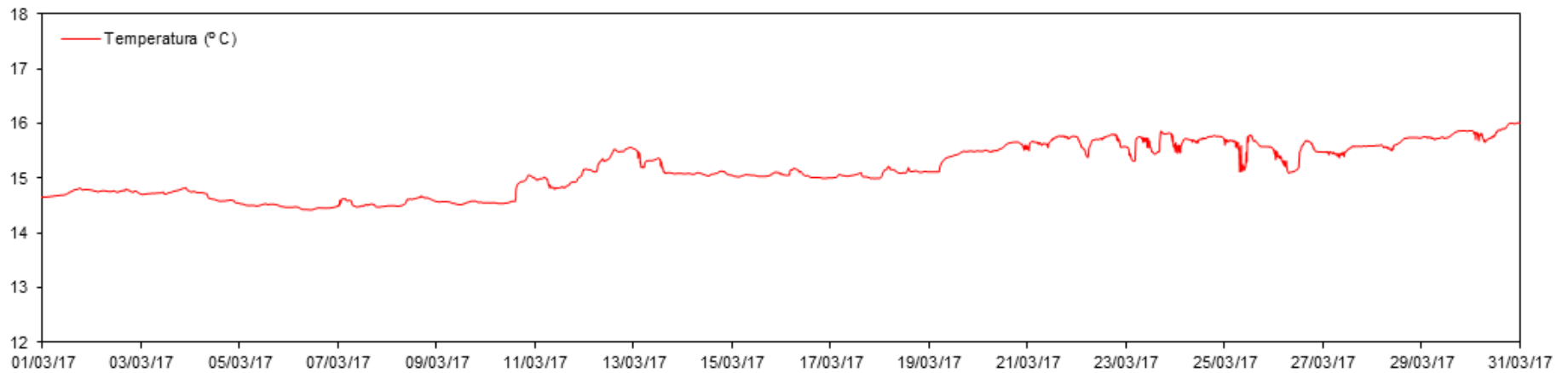
Datos CT Desaladora - 16 m



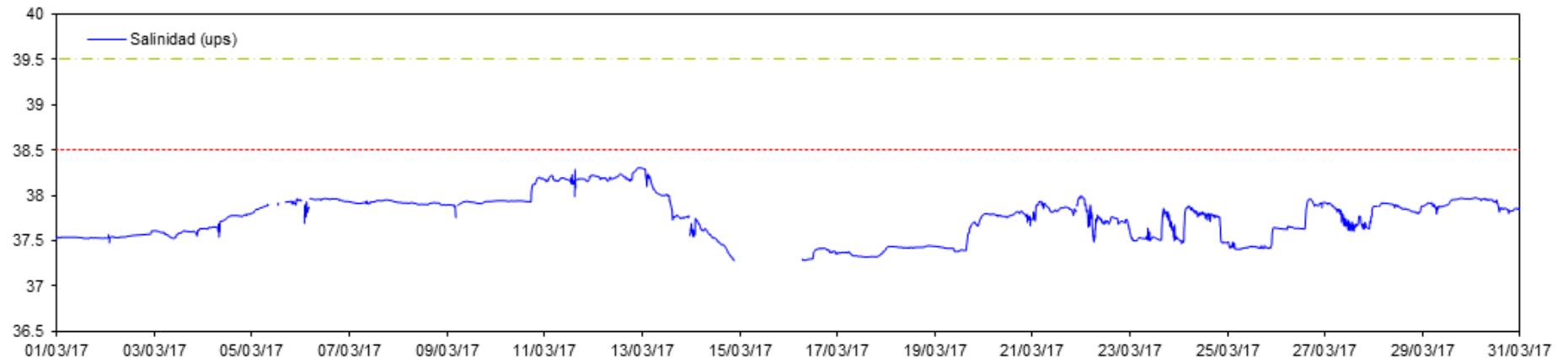
Datos CT Desaladora S - 16 m



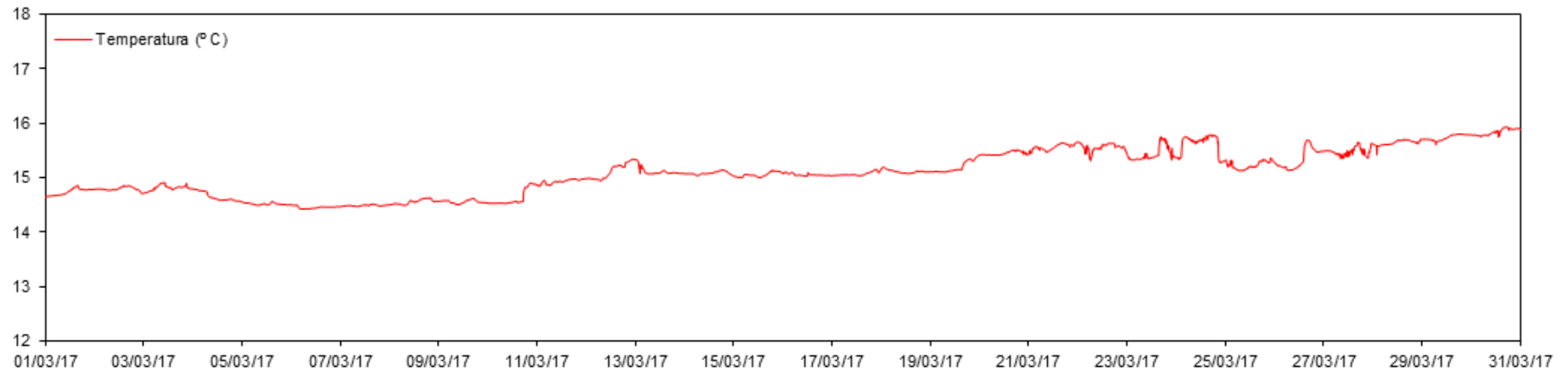
Datos CT Desaladora S - 16 m



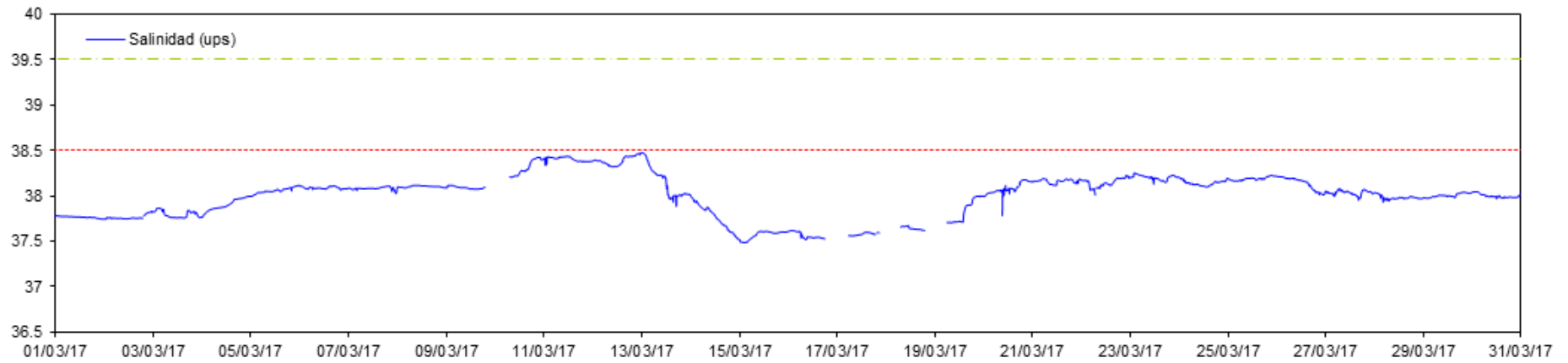
Datos CT Urbanova N - 16 m



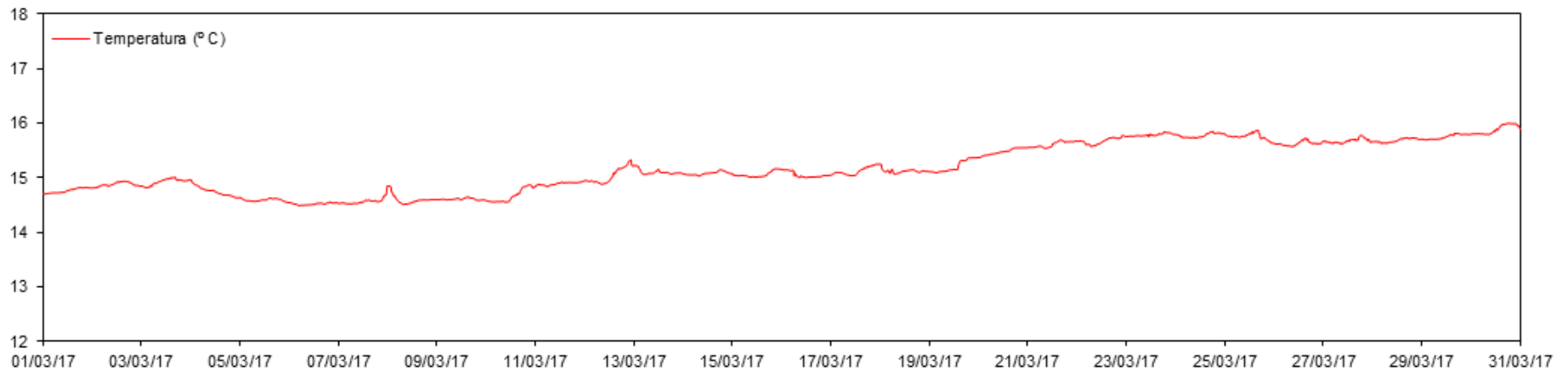
Datos CT Urbanova N - 16 m



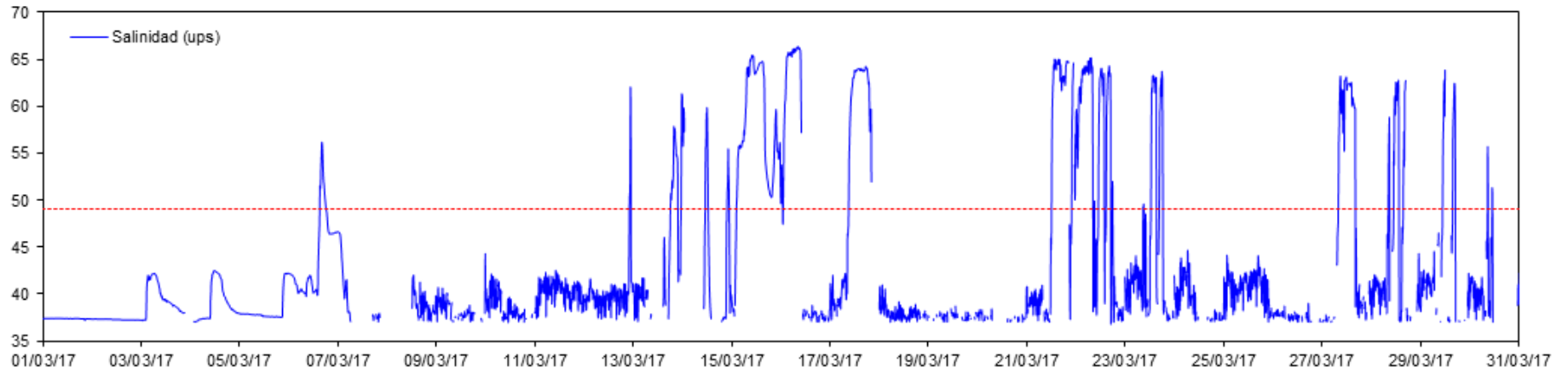
Datos CT Urbanova - 16 m



Datos CT Urbanova - 16 m



Datos CT Vertido - 16 m



Datos CT Vertido - 16 m

