

A comparison of shoreline litter along Lake Geneva, Switzerland and other OSPAR countries.

An interim evaluation by Shannon Erismann; Roger Erismann

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Introduction

Switzerland is a small, economically prosperous country in central Europe which comprises 0.4% of the total surface area of Europe and is the source of 6% of the fresh water for the continent.

The Rhine, Rhone and their tributaries drain 86% of Switzerland into either the North-East Atlantic (Rhine) or the Mediterranean (Rhone).

Switzerland is a member of the OSPAR (Oslo – Paris) convention, the mechanism by which 15 Governments & the EU cooperate to protect the marine environment of the North-East Atlantic.

According to paragraph 10 of the OSPAR Agreement 2014-01 "The sources of marine litter are diverse and ocean dynamics turn it into **a transboundary issue requiring collective action.**" Marine litter is defined in OSPAR agreement 2010-02:

*"Marine litter (marine debris) is any persistent, manufactured or processed solid material discarded, disposed of, abandoned or lost in the marine and coastal environment. **This also includes such items entering the marine environment via rivers, sewage outlets, storm water outlets or winds.**"*

As a member of the OSPAR convention and a major source of the fresh water that ultimately drains into the Mediterranean and North Sea, Switzerland has a significant role and responsibility to make an effort to both quantify and limit the marine litter pollution in its' rivers, streams and lakes.



hammerdirt, somebody has to do it

Switzerland, with a population of 8 million robust consumers promotes an image of technologic innovation and a clean litter free country. **However, litter survey's conducted along the shores of Lake Geneva over the last 16 months indicate the country is part of the problem rather than the solution.**

Additional surveys show the litter problem is not limited to Lake Geneva but is country wide. An antiquated drainage system and topography allows litter to be flushed primarily by rain water and snow melt run-off into the gutters and drains which flow into the streams and rivers. A visit to any alpine ski resort will show how the snow melt and rain is effectively used to continuously push the litter problems downstream and eventually across borders.

The Data

The OSPAR convention defines an efficient and cost effective way to monitor marine litter accumulation on the shore line, OSPAR agreement 2010-02:

“The collection of data on marine beach litter provides information on amounts, trends and sources of marine litter. This information can be used to focus on effective mitigating measures and to test the effectiveness of existing legislation and regulations. The ultimate aim is that the amount of litter entering the marine environment is minimized.”

The data collected is available for download and includes locations across continental Europe and the United Kingdom going back to 2001.

There is no data for Switzerland on the OSPAR database. However, there is one association, active in Switzerland that follows the model defined by OSPAR and Marine Litter Watch and makes the data available for download. **The hammerdirt association collects, counts and disposes of litter found on the shoreline of Lake Geneva**

Other organisations and projects that use similar methods to assess marine litter :

[Oceans Initiative](#)

[Riverine Input](#)

[Marine Litter Watch](#)

[Alliance for the Great Lakes](#)

[Marine Conservation Society](#)

There are many other local and regional associations, contact us and we can help you find one near you.

The Methods

At hammerdirt the marine litter is reported in pieces/m² of shoreline and in the OSPAR method the litter is reported in pieces/100m of shoreline. This reflects a very important difference: the size of the survey area. Beaches on Lake Geneva are very small, rarely greater than 70 meters long and except in rare cases less than 15 meters wide (table 1).

The authors do not intend to explain the details of the litter-survey methods. For a full description of the OSPAR method please consult OSPAR agreement 2010-02, for the hammerdirt method consult the current project plan available on the project website. Both methods count the individual pieces of litter in a defined area. The difference is the manner in which they are reported.

In order to compare the data, the totals were converted in pieces per linear meter of shoreline.

Beach	Length in meters
baye_de_claren	72
montreuxrd	51
montreuxrg	67
pierrier	67
veveyse	48
L'Arabie	42

table 1: Length of swiss beaches

The Results

In total 263 litter surveys were compared representing 68 different beaches from 11 countries. Of the 263 surveys 236 were from the OSPAR database and 27 surveys from the hammer dirt project. The oldest survey is from 2 January 2014 and the most recent is from January 24, 2016.

With a litter density of 113 pcs/m "Ytre Hvaler" in Norway is the most polluted beach of the sites in the survey, "drains bay" at 0.1 pcs/m is the least polluted. Switzerland, at the Plage de l'Arabie in Vevey makes its first appearance on the list in the third position with 47.7 pcs/m (table 2).

Beaches on Lake Geneva occupy 13 positions in the top 100 polluted beaches of this survey (annex 1).

Country	Date	Beach	Pieces per meter
Norway	3/25/2014	Ytre Hvaler	113,2
France	4/23/2014	Koubou	90,2
CH	1/24/2016	Plage de L'Arabie	47,7
United Kingdom	1/24/2014	Ballyhornan	47,6
Norway	5/9/2014	Rekvika i Skulsfjord	40,6
Norway	10/1/2014	Rekvika i Skulsfjord	36,2
Portugal	1/15/2014	Osso da Baleia	36,2
Sweden	4/26/2014	Gröderhamn	30,5
France	3/27/2014	Trielen	24,2
United Kingdom	1/17/2014	White Park Bay	23,7

table 2: Top ten most polluted beaches by pieces per meter of shoreline

Country	Surveys	Pieces per survey	Average pieces per meter	Number of beaches
Norway	5	3831	38,3	3
France	21	1058	10,6	7
Sweden	18	690	6,9	6
Switzerland	27	317	5,8	5
Portugal	37	525	5,3	9
United Kingdom	56	524	5,2	14
Netherlands	16	362	3,6	4
Spain	45	347	3,5	11
Belgium	7	155	1,6	2
Germany	14	147	1,5	4
Ireland	16	111	1,1	4

table 3: Results per country in descending order of average pieces per meter

When the pieces per meter of each country are averaged Switzerland is in the fourth position of the most polluted beaches (table 3). Note that even though Switzerland has less total pieces per survey than Portugal, the UK, the Netherlands and Spain it places higher in terms of pieces per meter of shoreline, a first indicator of density.

Density

The exposed shoreline of Lake Geneva is limited, therefore hammerdirt uses pieces per m² to determine density. This may give an initial impression of less material when compared to larger shorelines and total pieces per survey. A closer inspection of the data shows the shores of Lake Geneva have a greater concentration of litter in a smaller surface area (figure 1).

figure 1: example of density of litter versus total litter

Country	Beach name	Pieces per survey	Pieces per meter	Rank
CH	Pierrier	577	8,6	36
Portugal	Monte Velho	861	8,6	37
United Kingdom	Tyrella	855	8,6	38
United Kingdom	Ardglass	842	8,4	39
CH	Montreuxrd	422	8,3	40
Spain	Oyambre	821	8,2	41
United Kingdom	Tyrella	808	8,1	42
CH	baye_de_claren	580	8,1	43
Spain	Oyambre	792	7,9	44

The Conclusion

When comparing the OSPAR 100m survey results for 2014 with the current survey results for Lake Geneva, the shores of Lake Geneva on average have more litter per meter than 63% of the other OSPAR regions.

To accurately assess the magnitude of the problem in freshwater environments and compare the results to marine environments the size of beach must be taken into account. For example, although the beach at Monte Velho (rank 37) has the same pieces/meter value as the Pierrier (rank 36) the survey total at Monte Velho is 49% greater than the Pierrier. Implying a smaller, more densely polluted shoreline at the Pierrier (figure 1).

The regions downstream of Switzerland are receiving water already loaded with litter that exceeds the average. The lack of data and complete absence of support for organizations inside of Switzerland to monitor the flow of marine litter into the EU from Switzerland clearly demonstrates the lack seriousness of Swiss authorities and NGOs in regards to marine litter mitigation.

Notes

The data cited for Switzerland only reflects a small area of the upper region of lake Geneva and is currently the only data available concerning the macro litter along the water ways of Switzerland, highlighting the need for more surveys following established protocols.

Comments and recommendations are welcome, please contact hammerdirt with your feedback.

This project is completely unfunded, the authors have dedicated their personal financial resources and time.

Individuals interested in financially supporting the expansion of this project in Switzerland, France, Germany or Italy should contact hammerdirt association.

This is an electronic document, if you have received a printed version you will not have access to the data and other resources included. Contact us we will email you the PDF.

Bibliographie and References

[OSPAR agreement 2010-02](#) : "Guideline for monitoring Marine Litter on the Beaches in the OSPAR Maritime Area"

[OSPAR agreement 2014-01](#): "Regional Action Plan for Prevention and Management of Marine Litter in the North-East Atlantic"

[Hammerdirt project plan](#) : "Montreux Clean Beach Project II"

[Topic Water](#) : "Switzerland Federal Office for the Environment"

www.plagespropres.ch : "hammerdirt project page"

www.hammerdirt.ch : "hammerdirt home page"

[OSPAR data for this report](#) : "Marine Litter Beach Monitoring"

[Hammerdirt Summary of litter surveys nov 2015 - Jan 2016](#)

hammerdirt data for this report :

[Montreux](#)

[Vevey](#)

[Clarens](#)

About hammerdirt and the current project

The data presented for Switzerland is part of a long term monitoring project for the "Haut Lac" region of Lake Geneva. We would like to see this project spread to all the major lakes and water-ways of Switzerland.

Hammerdirt is a non-profit association. Created by Shannon and Roger Erismann in response to the [results of our first project](#) and complete lack of support or interest manifested by local, regional and national authorities.

Our goal is to use technology and leverage citizen participation to provide data today for the solutions of tomorrow.

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Country	Survey date	Beach name	Total	Per Meter	Rank
Norway	25.03.2014	Ytre Hvaler	11321	113,2	1
France	23.04.2014	Koubou	9020	90,2	2
CH	24.01.2016	Plage de L'Arabie	2004	47,7	3
United Kingdom	24.01.2014	Ballyhornan	4757	47,6	4
Norway	09.05.2014	Rekvika i Skulsfjord	4055	40,6	5
Norway	01.10.2014	Rekvika i Skulsfjord	3620	36,2	6
Portugal	15.01.2014	Osso da Baleia	3617	36,2	7
Sweden	26.04.2014	Gröderhamn	3047	30,5	8
France	27.03.2014	Trielen	2421	24,2	9
United Kingdom	17.01.2014	White Park Bay	2369	23,7	10
France	24.04.2014	Kerizella	2202	22,0	11
France	20.10.2014	Koubou	2028	20,3	12
Sweden	15.04.2014	Edsvik	1881	18,8	13
Spain	09.01.2014	Oyambre	1858	18,6	14
Sweden	15.04.2014	Saltö	1721	17,2	15
United Kingdom	10.04.2014	Ardglass	1542	15,4	16
Spain	04.04.2014	Oyambre	1463	14,6	17
Sweden	13.07.2014	Gröderhamn	1444	14,4	18
United Kingdom	10.01.2014	Tyrella	1417	14,2	19
The Netherlands	07.01.2014	Noordwijk	1378	13,8	20
Portugal	02.05.2014	Monte Velho	1325	13,3	21
France	21.01.2014	Trielen	1310	13,1	22
Portugal	23.07.2014	Osso da Baleia	1253	12,5	23
United Kingdom	24.06.2014	Ballyhornan	1216	12,2	24
United Kingdom	24.04.2014	Kilkeel North	1167	11,7	25
CH	10.12.2015	montreuxrd	589	11,5	26
Sweden	20.09.2014	Gröderhamn	1110	11,1	27
United Kingdom	16.09.2014	Ballyhornan	1080	10,8	28
United Kingdom	09.07.2014	Ardglass	1043	10,4	29
Portugal	10.10.2014	Fonte da Telha	1035	10,4	30
United Kingdom	03.07.2014	Kilkeel North	1002	10,0	31
United Kingdom	04.04.2014	Ballyhornan	962	9,6	32
Portugal	03.06.2014	Osso da Baleia	924	9,2	33
Portugal	07.02.2014	Monte Velho	885	8,9	34
United Kingdom	30.01.2014	Ardglass	873	8,7	35
CH	13.01.2016	pierrier	577	8,6	36

Portugal	04.07.2014	Monte Velho	861	8,6	37
United Kingdom	09.04.2014	Tyrella	855	8,6	38
United Kingdom	16.09.2014	Ardglass	842	8,4	39
CH	04.12.2015	montreuxrd	422	8,3	40
Spain	10.10.2014	Oyambre	821	8,2	41
United Kingdom	04.07.2014	Tyrella	808	8,1	42
CH	23.01.2016	baye_de_claren	580	8,1	43
Spain	18.06.2014	Oyambre	792	7,9	44
Portugal	14.10.2014	Amoeiras	788	7,9	45
Portugal	19.12.2014	Monte Velho	782	7,8	46
France	11.04.2014	Larmor Plougastel	780	7,8	47
CH	04.12.2015	montreuxrg	511	7,6	48
France	15.06.2014	Porsmilin	752	7,5	49
Portugal	07.08.2014	Fonte da Telha	751	7,5	50
Spain	02.05.2014	A Lanzada	751	7,5	51
United Kingdom	15.04.2014	Rathlin	751	7,5	52
Portugal	30.04.2014	Cabedelo	740	7,4	53
Spain	09.04.2014	O Rostro	717	7,2	54
Spain	15.07.2014	Agiti	708	7,1	55
Portugal	23.10.2014	Ilha de Faro	699	7,0	56
United Kingdom	28.01.2014	Rostrevor	698	7,0	57
United Kingdom	16.09.2014	Ardglass	684	6,8	58
The Netherlands	23.10.2014	Noordwijk	645	6,5	59
United Kingdom	03.07.2014	Portavogie	638	6,4	60
The Netherlands	01.07.2014	Bergen	636	6,4	61
United Kingdom	28.01.2014	Kilkeel North	623	6,2	62
Portugal	25.09.2014	Osso da Baleia	619	6,2	63
The Netherlands	25.06.2014	Noordwijk	603	6,0	64
Spain	22.05.2014	Agiti	600	6,0	65
Portugal	26.09.2014	Monte Velho	594	5,9	66
Portugal	16.05.2014	Ilha de Faro	593	5,9	67
Sweden	12.04.2014	Haby	584	5,8	68
France	21.01.2014	Kerizella	583	5,8	69
CH	13.01.2016	montreuxrg	388	5,8	70
Spain	17.06.2014	La Vega	568	5,7	71
Portugal	21.04.2014	Fonte da Telha	552	5,5	72
France	29.01.2014	Koubou	543	5,4	73

CH	30.12.2015	montreuxrg	358	5,3	74
Portugal	25.09.2014	Praia da Barra	526	5,3	75
CH	23.11.2015	montreuxrg	349	5,2	76
Spain	14.01.2014	A Lanzada	503	5,0	77
United Kingdom	17.09.2014	Tyrella	497	5,0	78
Spain	08.01.2014	La Vega	479	4,8	79
Spain	07.04.2014	La Vega	478	4,8	80
Spain	02.10.2014	La Vega	462	4,6	81
Sweden	22.04.2014	Edshultshall	460	4,6	82
CH	10.12.2015	montreuxrg	308	4,6	83
Spain	14.04.2014	Menacoz	455	4,6	84
Spain	24.06.2014	Menacoz	450	4,5	85
CH	27.11.2015	veveyse	216	4,5	86
The Netherlands	08.01.2014	Bergen	430	4,3	87
France	08.11.2014	Blancs Sablons	428	4,3	88
Spain	09.01.2014	Agiti	424	4,2	89
Sweden	01.10.2014	Saltö	422	4,2	90
Spain	25.09.2014	Castilla	422	4,2	91
United Kingdom	01.04.2014	Portavogie	422	4,2	92
Portugal	09.07.2014	Ilha de Faro	412	4,1	93
United Kingdom	14.04.2014	Runkerry	404	4,0	94
CH	07.12.2015	veveyse	193	4,0	95
United Kingdom	27.01.2014	Portavogie	401	4,0	96
CH	17.12.2015	montreuxrg	257	3,8	97
Spain	21.10.2014	A Lanzada	383	3,8	98
United Kingdom	29.01.2014	Ballywalter	379	3,8	99
Ireland	06.01.2014	Silver Strand	378	3,8	100
United Kingdom	17.01.2014	Rathlin	377	3,8	101
Portugal	06.08.2014	Amoeiras	376	3,8	102
United Kingdom	23.06.2014	Rathlin	370	3,7	103
France	18.07.2014	Koubou	362	3,6	104
The Netherlands	23.04.2014	Bergen	358	3,6	105
Portugal	22.04.2014	Amoeiras	355	3,6	106
France	22.07.2014	Sein	351	3,5	107
The Netherlands	16.10.2014	Bergen	339	3,4	108
Portugal	07.03.2014	Cabedelo	338	3,4	109
Sweden	01.07.2014	Saltö	336	3,4	110

Spain	06.03.2014	Castilla	331	3,3	111
CH	08.12.2015	baye_de_claren	234	3,3	112
Germany	29.09.2014	Juist	321	3,2	113
Sweden	05.10.2014	Haby	315	3,2	114
Ireland	10.04.2014	Silver Strand	315	3,2	115
France	15.02.2014	Blancs Sablons	315	3,2	116
The Netherlands	24.04.2014	Noordwijk	313	3,1	117
Germany	24.06.2014	Juist	311	3,1	118
CH	08.01.2016	veveyse	147	3,1	119
CH	17.12.2015	montreuxrd	155	3,0	120
CH	15.01.2016	veveyse	145	3,0	121
CH	21.01.2016	veveyse	144	3,0	122
Belgium	01.02.2014	Oostende	285	2,9	123
CH	07.01.2016	montreuxrd	144	2,8	124
Spain	17.10.2014	Agiti	282	2,8	125
Germany	23.09.2014	Minsener Oog (island)	282	2,8	126
United Kingdom	27.01.2014	Cloughey	271	2,7	127
Portugal	09.04.2014	Praia da Barra	270	2,7	128
CH	14.12.2015	veveyse	129	2,7	129
United Kingdom	15.04.2014	White Park Bay	268	2,7	130
CH	16.12.2015	baye_de_claren	192	2,7	131
France	14.10.2014	Sein	257	2,6	132
The Netherlands	11.01.2014	Terschelling	252	2,5	133
Spain	25.09.2014	Castilnovo	251	2,5	134
(the Faeroe Islands)	22.07.2014	Nymindegab Strand	250	2,5	135
Spain	04.04.2014	Baldaio	248	2,5	136
Ireland	14.10.2014	Long Strand	247	2,5	137
Spain	18.12.2014	Agiti	245	2,5	138
Spain	16.06.2014	Castilla	245	2,5	139
Spain	22.12.2014	Castilnovo	242	2,4	140
(the Faeroe Islands)	27.10.2014	Nymindegab Strand	239	2,4	141
United Kingdom	12.09.2014	Portavogie	237	2,4	142
Germany	27.04.2014	Sylt (island)	234	2,3	143
Sweden	05.07.2014	Haby	233	2,3	144
France	14.06.2014	Blancs Sablons	224	2,2	145
Sweden	03.10.2014	Edsvik	222	2,2	146
The Netherlands	20.04.2014	Terschelling	222	2,2	147

Sweden	08.09.2014	Edsvik	220	2,2	148
Spain	08.10.2014	Menacoz	218	2,2	149
United Kingdom	19.06.2014	Drains Bay	213	2,1	150
Belgium	23.07.2014	Raversijde	204	2,0	151
Belgium	23.07.2014	Oostende	199	2,0	152
France	09.04.2014	Sein	190	1,9	153
CH	19.01.2016	montreuxrd	95	1,9	154
CH	06.01.2016	baye_de_claren	133	1,8	155
Sweden	17.04.2014	Grönevik	180	1,8	156
Ireland	08.04.2014	Long Strand	169	1,7	157
Germany	08.09.2014	Sylt (island)	166	1,7	158
Ireland	03.01.2014	Clogherhead - South	163	1,6	159
CH	24.11.2015	baye_de_claren	117	1,6	160
United Kingdom	08.07.2014	Cloughey	161	1,6	161
The Netherlands	25.10.2014	Terschelling	158	1,6	162
Portugal	25.03.2014	Praia da Barra	154	1,5	163
Germany	03.07.2014	Sylt (island)	153	1,5	164
United Kingdom	04.04.2014	Cloughey	152	1,5	165
United Kingdom	14.04.2014	Minearny	149	1,5	166
United Kingdom	01.04.2014	Ballywalter	149	1,5	167
United Kingdom	23.06.2014	White Park Bay	145	1,5	168
France	18.07.2014	Kerizella	142	1,4	169
Spain	26.12.2014	Baldaio	140	1,4	170
United Kingdom	23.09.2014	Runkerry	139	1,4	171
Germany	17.04.2014	Scharhörn (island)	139	1,4	172
Belgium	02.02.2014	Raversijde	132	1,3	173
Belgium	09.11.2014	Oostende	131	1,3	174
France	13.10.2014	Kerizella	131	1,3	175
Portugal	29.04.2014	Batata	124	1,2	176
Spain	23.12.2014	Castilla	123	1,2	177
United Kingdom	15.01.2014	Minearny	123	1,2	178
United Kingdom	25.06.2014	Runkerry	122	1,2	179
The Netherlands	09.07.2014	Veere	120	1,2	180
Spain	04.04.2014	Valdevaqueros beach	119	1,2	181
The Netherlands	24.07.2014	Terschelling	117	1,2	182
United Kingdom	08.07.2014	Ballywalter	114	1,1	183
The Netherlands	08.05.2014	Veere	113	1,1	184

Portugal	29.12.2014	Praia da Barra	112	1,1	185
CH	19.01.2016	montreuxrg	75	1,1	186
United Kingdom	24.04.2014	Rostrevor	110	1,1	187
Sweden	01.10.2014	Grönevik	109	1,1	188
CH	01.12.2015	veveyse	52	1,1	189
France	14.01.2014	Larmor Plougastel	108	1,1	190
Portugal	31.10.2014	Cabedelo	102	1,0	191
Portugal	24.07.2014	Cabedelo	101	1,0	192
United Kingdom	23.09.2014	Minearny	99	1,0	193
Norway	08.04.2014	Kviljo	99	1,0	194
Spain	11.06.2014	O Rostro	98	1,0	195
Germany	13.01.2014	Sylt (island)	98	1,0	196
Spain	15.12.2014	Menacoz	93	0,9	197
United Kingdom	15.01.2014	Runkerry	93	0,9	198
Spain	13.01.2014	Castilnovo	88	0,9	199
Ireland	07.01.2014	Long Strand	88	0,9	200
Germany	11.04.2014	Minsener Oog (island)	87	0,9	201
Germany	10.07.2014	Minsener Oog (island)	86	0,9	202
Germany	25.04.2014	Juist	84	0,8	203
United Kingdom	08.09.2014	White Park Bay	82	0,8	204
United Kingdom	07.04.2014	Drains Bay	82	0,8	205
United Kingdom	10.01.2014	Hazelbank	82	0,8	206
Portugal	21.02.2014	Batata	81	0,8	207
Portugal	23.01.2014	Ilha de Faro	81	0,8	208
Spain	12.06.2014	Baldaio	78	0,8	209
Ireland	17.06.2014	Long Strand	77	0,8	210
Portugal	29.10.2014	Batata	76	0,8	211
United Kingdom	03.07.2014	Rostrevor	76	0,8	212
The Netherlands	29.01.2014	Veere	76	0,8	213
Portugal	23.01.2014	Barranha	75	0,8	214
Belgium	08.11.2014	Raversijde	74	0,7	215
Spain	24.09.2014	Valdevaqueros beach	71	0,7	216
Portugal	22.09.2014	Barranha	68	0,7	217
CH	02.12.2015	baye_de_claren	47	0,7	218
Portugal	02.07.2014	Praia da Barra	65	0,7	219
Belgium	21.04.2014	Oostende	65	0,7	220
Norway	15.10.2014	Kviljo	64	0,6	221

France	16.07.2014	Trielen	61	0,6	222
United Kingdom	12.09.2014	Ballywalter	60	0,6	223
United Kingdom	17.09.2014	Cloughey	58	0,6	224
Ireland	30.09.2014	Clogherhead - South	57	0,6	225
Spain	23.01.2014	Valdevaqueros beach	57	0,6	226
Sweden	01.07.2014	Grönevik	55	0,6	227
Sweden	14.08.2014	Edshultshall	54	0,5	228
United Kingdom	25.06.2014	Minearny	54	0,5	229
Spain	20.10.2014	Baldaio	51	0,5	230
Spain	06.10.2014	O Rostro	49	0,5	231
Ireland	18.06.2014	Carnesore	48	0,5	232
Germany	13.01.2014	Juist	45	0,5	233
Spain	24.06.2014	Castilnovo	43	0,4	234
Spain	27.06.2014	Covas	42	0,4	235
Sweden	24.10.2014	Edshultshall	41	0,4	236
Ireland	18.06.2014	Clogherhead - South	41	0,4	237
Spain	07.04.2014	Castilnovo	38	0,4	238
Ireland	07.04.2014	Carnesore	38	0,4	239
Spain	19.12.2014	Valdevaqueros beach	37	0,4	240
United Kingdom	30.09.2014	Rostrevor	37	0,4	241
Ireland	17.06.2014	Silver Strand	37	0,4	242
Spain	13.10.2014	Covas	36	0,4	243
Portugal	09.04.2014	Barranha	36	0,4	244
Germany	04.01.2014	Minsener Oog (island)	35	0,4	245
United Kingdom	02.09.2014	Hazelbank	34	0,3	246
Ireland	07.04.2014	Clogherhead - South	33	0,3	247
The Netherlands	28.10.2014	Veere	32	0,3	248
Ireland	15.10.2014	Silver Strand	32	0,3	249
Spain	15.12.2014	Covas	31	0,3	250
Portugal	31.07.2014	Batata	30	0,3	251
United Kingdom	30.06.2014	Hazelbank	29	0,3	252
Ireland	02.01.2014	Carnesore	29	0,3	253
Germany	07.07.2014	Scharhörn (island)	28	0,3	254
Portugal	20.06.2014	Barranha	27	0,3	255
United Kingdom	16.09.2014	Ardglass	26	0,3	256
Ireland	14.10.2014	Carnesore	25	0,3	257
Portugal	22.12.2014	Barranha	24	0,2	258

United Kingdom	15.09.2014	Drains Bay	23	0,2	259
France	18.09.2014	Trielen	22	0,2	260
Spain	10.04.2014	Covas	22	0,2	261
United Kingdom	07.04.2014	Hazelbank	22	0,2	262
Spain	17.06.2014	Valdevaqueros beach	18	0,2	263
United Kingdom	08.01.2014	Drains Bay	11	0,1	264