OSPAR Area

BEACH LITTER POLLUTION STATUS (2018-2020)



<u>Data source:</u> OSPAR beach litter monitoring (https://beachlitter.ospar.org/)

Reporting period: 2018-2020 (3 years)

Number of sites and surveys: 114 sites, 1137 surveys

Calculation tools: LitteR package and Excel

Data format: OSPAR beach litter reference list, version 2010

Assessment method: CEMP Guidelines (https://www.ospar.org/work-areas/cross-cutting-issues/cemp); mesoplastic

fragments (plastic fragments < 2.5 cm) are excluded





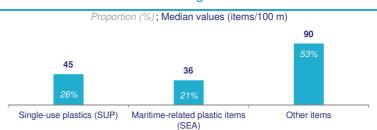
Litter abundance **Position in OSPAR Area Spatial distribution Abundance** 1038647 items collected Bay of Biscay and Iberian C 350 300 Celtic Seas Arctic Waters 150 250 150 100 Median total count: 252 items/100 m **Greater North Sea** 50 Wider Atlantic A reduction of the median total count is required to achieve EU threshold value of 20 litter items/100 m. Region median total count OSPAR Area median total count == EU threshold value

Litter composition

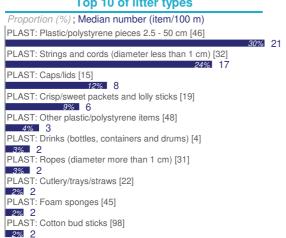
Material composition



Use categories



Top 10 of litter types

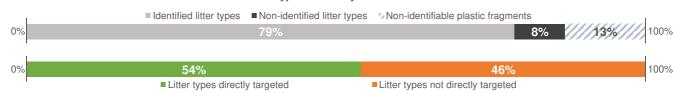


Litter types targeted by RAP measures

Litter types targeted by KAP measures	
	Medians
Plastic bags	1 item/100 m
4658 items collected	T ILEM TOO III
Hunting cartridges	
7355 items collected	1 item/100 m
Dellacone incl. plastic valves.	
Balloons incl. plastic valves, ribbons, strings etc. 7645 items collected	0 item/100 m
7 o re komo conocica	
Cotton bud sticks	2 items/100 m
43475 items collected	Z Romo/ 100 m
Cigarette filters	0 item/100 m
23677 items collected	o item/100 m

Assessment of survey list adequacy and measures coverage





Part of items targeted by measures (ML RAP 2014-2020 and Directive EU 2019/904)

OSPAR Area

BEACH LITTER POLLUTION TRENDS (2015-2020)

Analysis performed by Cedre (France) for the OSPAR Beach Litter Expert Group

<u>Data source:</u> OSPAR beach litter monitoring (https://beachlitter.ospar.org/)

Reporting period: 2015-2020 (6 years)

Number of sites and surveys: 83 sites, 1693 surveys Calculation tools: LitteR package of R and Excel

Data format: OSPAR beach litter reference list, version 2010

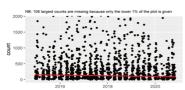
Assessment method: CEMP Guidelines (https://www.ospar.org/work-areas/cross-cutting-issues/cemp); mesoplastic

fragments (plastic fragments < 2.5 cm) are excluded



Trends in total count

OSPAR Area level



2015-2020: Significant decrease

Slope: -11 items/100 m per year

p-value: 0.000

Site level

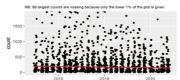
Trends over 2015-2020

 Significant decrease Significant increase

No trend

Trends for categories of interest

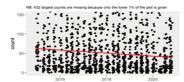
Artificial polymer materials (plastics)



2015-2020: Significant decrease

Slope: -9 items/100 m per year p-value: 0.000

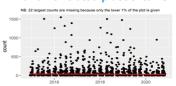
Single-use plastics



2015-2020: Significant decrease

Slope: -4 items/100 m per year p-value: 0.000

Maritime-related plastic items

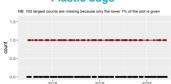


2015-2020: Significant decrease

Slope: -2 items/100 m per year p-value: 0.000

Trends for litter types targeted by RAP measures

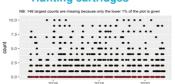
Plastic bags



2015-2020: No trend

Slope: 0 item/100 m per year p-value: 0.003

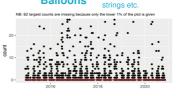
Hunting cartridges



2015-2020: No trend

Slope: 0 item/100 m per year p-value: 0.000

incl. plastic valves, ribbons, **Balloons**

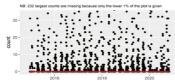


2015-2020: No trend

Slope: 0 item/100 m per year

p-value: 0.000

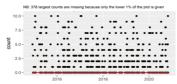
Cotton bud sticks



2015-2020: No trend

Slope: 0 item/100 m per year p-value: 0.005

Cigarette filters



2015-2020: No trend

Slope: 0 item/100 m per year p-value: 0.977

Count of litter items per

Beach litter is abundant on survey sites in the OSPAR Area, with a median total count of 252 items/100 m

Plastic material is predominant, representing 94% of the beach litter items recorded, with a median of 194 items/100 m.
SUP and SEA use categories appear to contribute to the pollution with medians of 45 items/100 m (26%) 36 items/100 m (21%) respectively.

Plastic / polystyrene pieces (21 items/100 m; 30%), strings and cords (17 items/100 m; 24%) and caps and lids (8 items/100 m; 12%) are abundant litter types

At least 54% of the recorded items are directly targeted by OSPAR ML RAP 2014-2020 and the SUP Directive.
Only 8% of the litter items are not identified, indicating that the OSPAR survey list adequately covers the litter items recorded.

13% of the litter items are non-identifiable plastic fragments, which cannot be used for the identification of sources of pollution.

survey

Theil-Sen trend line