

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

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

Reporting period: 2018-2020 (3 years)

Number of sites and surveys: 32 sites, 325 surveys

Calculation tools: LitterR 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

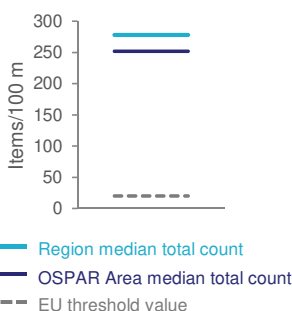
### Abundance

155364 items collected

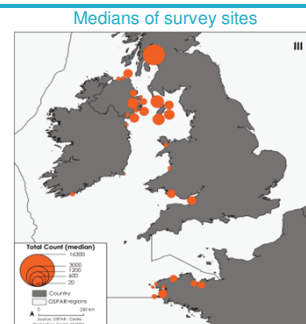
**Median total count: 278 items/100 m**

A reduction of the median total count is required to achieve EU threshold value of 20 litter items/100 m.

### Position in OSPAR Area



### Spatial distribution



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

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

Reporting period: 2015-2020 (6 years)

Number of sites and surveys: 26 sites, 530 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

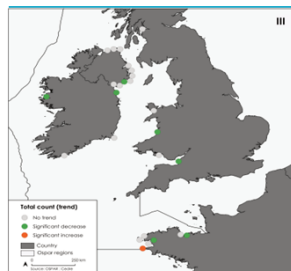
#### Region level



2015-2020: **Significant decrease**

Slope: -12 items/100 m per year  
p-value: 0.000

#### Site level

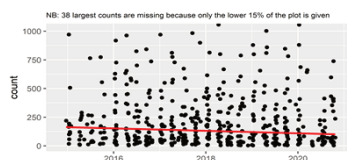


Trends over 2015-2020

- Significant decrease
- Significant increase
- No trend

### Trends for categories of interest

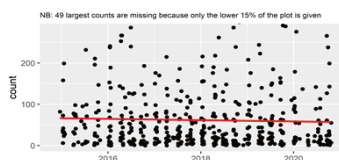
#### Artificial polymer materials (plastics)



2015-2020: **Significant decrease**

Slope: -11 items/100 m per year  
p-value: 0.000

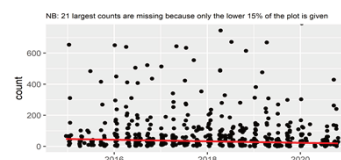
#### Single-use plastics



2015-2020: **Significant decrease**

Slope: -5 items/100 m per year  
p-value: 0.000

#### Maritime-related plastic items

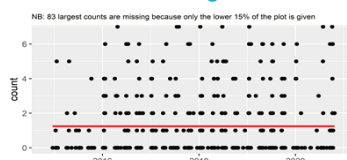


2015-2020: **Significant decrease**

Slope: -2 items/100 m per year  
p-value: 0.001

### Trends for litter types targeted by RAP measures

#### Plastic bags



2015-2020: **No trend**

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

#### Hunting cartridges



2015-2020: **No trend**

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

#### Balloons

incl. plastic valves, ribbons, strings etc.



2015-2020: **No trend**

Slope: 0 item/100 m per year  
p-value: 0.009

#### Cotton bud sticks



2015-2020: **No trend**

Slope: 0 item/100 m per year  
p-value: 0.043

#### Cigarette filters



2015-2020: **No trend**

Slope: 0 item/100 m per year  
p-value: 1.000

- Count of litter items per survey
- Theil-Sen trend line

### Key message

Beach litter is abundant on survey sites in the OSPAR Region Celtic Seas, with a median total count of 278 items/100 m.

Plastic material is predominant, representing 92% of the beach litter items recorded, with a median of 145 items/100 m.

SUP and SEA use categories appear to contribute to the pollution with medians of 37 items/100 m (23%) 29 items/100 m (18%) respectively.

Plastic / polystyrene pieces (17 items/100 m; 30%), strings and cords (10 items/100 m; 18%) and crisp / sweet packets (8 items/100 m; 14%) are abundant litter types.

At least 51% 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.

14% of the litter items are non-identifiable plastic fragments, which cannot be used for the identification of sources of pollution.