**Physical disturbance to the seabed dataset in support of the Marine Strategy Framework Directive (MSFD) Descriptor 6 (D6C2, 2024 Reporting)**

This dataset is part of the 2024 Belgian submission for the Marine Strategy Framework Directive (MSFD) linked to descriptor 6, criterion 2. This dataset describes and maps the physical disturbance to the seabed in the Belgian part of the North Sea (BPNS) between 2010 and 2021. The dataset combines different layers of human activities leading to a disturbance of the seabed, including ‘soft’ beach and foreshore nourishments, dredging and dumping, sand extraction, fisheries, burial of cables, war ammunition stocking and construction of wind farms. The area disturbed is mapped and quantified per year and per activity, and plotted on the predominant broad-scale benthic habitat types of the EUSeaMap 2023. Infield cables from wind farms and Elia cables (NEMO and MOG) are not shown due to mutual agreements.**Download and links**

**WFS: MSFD:D6C2\_Physical\_Disturbance**

A WFS service to download: GIS layer for Physical disturbance and loss of the seabed: Disturbance (MSFD). Lars Kint, Vera Van Lancker

This dataset is published in the download service (WFS) available at <https://spatial.naturalsciences.be/geoserver/MSFD/ows?version=2.0.0&service=WFS&request=GetCapabilities> with layer name **MSFD:D6C2\_Physical\_Disturbance**.

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**WMS: MSFD:D6C2\_Physical\_Disturbance**

A WMS service to view a map of: GIS layer for Physical disturbance and loss of the seabed: Disturbance (MSFD). Lars Kint, Vera Van Lancker

This dataset is published in the view service (WMS) available at <https://spatial.naturalsciences.be/geoserver/MSFD/ows?version=1.3.0&service=WMS&request=GetCapabilities> with layer name **MSFD:D6C2\_Physical\_Disturbance**.

**Physical disturbance and loss of the seabed: Disturbance (INSPIRE-compliant GML). Lars Kint, Vera Van Lancker**

An HTTP link to download the dataset in INSPIRE-compliant GML: Physical disturbance and loss of the seabed: Disturbance (INSPIRE-compliant GML). Lars Kint, Vera Van Lancker

**About this resource**

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| **INSPIRE themes** | * Sea regions |
| **Categories** | * Datasets, Oceans |
| **Eionet Central Data Repository** | * [(Criteria) D6C2 - Physical disturbance to the seabed](http://cdr.eionet.europa.eu/help/msfd/Schemas/MSFDCommon_2018.xsd#D6C2) |
| **GEMET - Concepts, version 4.2.1** | * [Marine Strategy Framework Directive](http://www.eionet.europa.eu/gemet/concept/15228) * [Sea bed exploitation](http://www.eionet.europa.eu/gemet/concept/7498) * [Marine monitoring](http://www.eionet.europa.eu/gemet/concept/5042) |
| **GEMET - INSPIRE themes, version 1.0** | * [Sea regions](http://inspire.ec.europa.eu/theme/sr) |
| **INSPIRE Registry: Priority Datasets** | * [Directive 2008/56/EC](http://inspire.ec.europa.eu/metadata-codelist/PriorityDataset/dir-2008-56) |
| **INSPIRE Registry: Spatial scope** | * [National](http://inspire.ec.europa.eu/metadata-codelist/SpatialScope/national) |
| **INSPIRE Registry: feature concepts** | * [Sea Bed Area](http://inspire.ec.europa.eu/featureconcept/SeaBedArea) |
| **Marine Regions** | * [Belgian part of the North Sea](http://marineregions.org/mrgid/26567) * [Greater North Sea, incl. the Kattegat and the English Channel](http://marineregions.org/mrgid/50155) |
| **NERC Vocabulary Server - C45 Vocabulary version 3.0** | * [Sea-floor integrity supports ecosystem](http://vocab.nerc.ac.uk/collection/C45/current/D6) |
| **Themes for open data catalogi in Belgium** | * [Environment](http://vocab.belgif.be/auth/datatheme/ENVI) |
| **Keywords** | * Reporting INSPIRE * Federal government |
| **Language** | * English |
| **Resource identifier** |  |
| **Legal constraints** | https://creativecommons.org/licenses/by/2.0/  No conditions apply to access and use  No limitations on public access.  No conditions apply to use. |
| **Contact for the resource** | [***Royal Belgian Institute for Natural Sciences (RBINS)***](https://www.naturalsciences.be)  *Vautierstraat 29, Brussel, 1000*   * *Publisher,Owner:* [*info@naturalsciences.be*](mailto:info@naturalsciences.be)   [***Royal Belgian Institute for Natural Sciences (RBINS), Directorate Natural Environment (OD Nature), Belgian Marine Data Centre (BMDC)***](https://www.bmdc.be)  *Vautierstraat 29, Brussel, 1000*   * *Custodian:* [*bmdc@naturalsciences.be*](mailto:bmdc@naturalsciences.be)   ***Royal Belgian Institute for Natural Sciences (RBINS), Directorate Natural Environment (OD Nature), Ecosystems data processing and modelling (ECODAM)***  *Vautierstraat 29, Brussel, 1000*   * *Author:* [*ecodam@lists.naturalsciences.be*](mailto:ecodam@lists.naturalsciences.be) |

**Technical information**

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| **Representation type** | Vector |
| **Coordinate reference system** | * http://www.opengis.net/def/crs/EPSG/0/3035 |
| **Format** | application/xmlapplication/gml+xml |
| **Lineage** | This dataset combines human activity shapefiles of ‘soft’ beach and foreshore nourishments, dredging and dumping, sand extraction, fisheries, burial of cables, war ammunition stocking and construction of wind farms. A distance buffer was applied reflecting the exact dimensions (i.e. physical loss) or the estimated impact (i.e. physical disturbance in the near field). Shapefiles are published in INSPIRE compliant ETRS89-LAEA projection. The data is then dynamically made available through WFS and statically converted to an INSPIRE-compliant GML file. |

**Metadata information**

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| **Contact** | [***Royal Belgian Institute for Natural Sciences (RBINS), Directorate Natural Environment (OD Nature), Belgian Marine Data Centre (BMDC)***](https://www.bmdc.be)  *Vautierstraat 29, Brussel, 1000*   * *Point of Contact:* [*bmdc@naturalsciences.be*](mailto:bmdc@naturalsciences.be) |
| **Metadata language** | * English |
| **Identifier** |  |