

AIMS Beach Structure Point

Product Description

Nov
2021

DESCRIPTION OF DATASET

The Environment Agency releases a range of flood asset information as Open Data. They are the only comprehensive and up-to-date group of datasets in England that show flood defences currently owned, managed or inspected by the EA.

The Open Data asset types are listed below. This product description relates to the highlighted asset type.

- Aids to Navigation
- **Beach Structure**
- Building
- Channel Crossing
- Channel
- Defence (Spatial Flood Defences)
- Instrument
- Land
- Structure

Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

A defence is any asset that provides flood defence or coastal protection functions. This includes both man-made and natural defences. Natural defences may include man-made elements to make them more effective or protect them from erosion.

Normally a number of assets will be used together to manage the risk in a particular area, working in combination within a risk management system.

PURPOSE

The dataset shows the location and metadata about our Beach Structures. We combine it with other data in our flood models to help us better understand flood risk (e.g. Flooding from Rivers and Sea product). It is also used for Incident Management purposes.

The data is used outside the EA by insurance companies to help provide home insurance cover. It is also used in home-buyers reports when purchasing a new house.

BACKGROUND

- Digitised from scheme drawings and survey information on Ordnance Survey mapping (at a scale of 1:3000 or less)
- Recorded in our Asset Information Management System (AIMS:Inventory, called AIMS hereon)
- Managed and maintained by local experts

DATASET DETAILS

All assets on main river and around the coast are selected from AIMS where the following apply:

- EA has operational powers to maintain or operate (whether or not we exercise those powers);
- There is a liability on Flood and Coastal Risk Management (FCRM);
- Should be attached to Flood Risk Management Systems (FRMS).

This includes:

- Assets we may operate for FCRM in an incident.
- Assets used to protect the coast from erosion or provide access.

Explanation of 'Condition Grades'

- 1 - Very Good - Cosmetic defects that will have no effect on performance
- 2 - Good - Minor defects that will not reduce the overall performance of the asset
- 3 - Fair - Defects that could reduce performance of the asset
- 4 - Poor - Defects that would significantly reduce the performance of the asset. Further investigation needed
- 5 - Very Poor - Severe defects resulting in complete performance failure

Explanation of spatial data 'Quality Flags':

- 1 = Good
- 2 = Adequate
- 3 = Suspect
- 4 = Poor
- 5 = Missing
- 0 / 6 = Unchecked

USING THE PRODUCT

| | |
|--------------------|---|
| Key Strengths | <ul style="list-style-type: none"> • Local data (defence information including condition) and expert validation • High quality information on asset properties (e.g. asset type, crest level etc) • National (England) coverage • Regularly updated where new data is available. |
| Key Limitations | <ul style="list-style-type: none"> • Does not contain all AIMS defences, such as: <ul style="list-style-type: none"> - non-main river assets; - coastal protection assets/schemes that another operating authority is responsible for; - assets solely funded by non FCRM (EA) funding streams with no FCRM purpose. |
| Companion Datasets | <ul style="list-style-type: none"> Aid to Navigation Building Channel Crossing Channel Defence (Spatial Flood Defences) Instrument Land |

| | |
|--|--------------------------------------|
| | Structure |
| DATA ACCESS | |
| <p>This is a spatial dataset that is available in two locations as either a national download at the direct link below (formats: shp, gml, mid/mif, geojson, tab or gdb) or via a map interface as Linked Data (API). It can be downloaded and used for free with an Open Government Licence.</p> | |
| <ul style="list-style-type: none"> If you would like a product sample or to find out more please contact licence-advice@environment-agency.gov.uk | |
| Approval for Access number | AfA345 |
| EA Metadata Identifier | 6dade4ed-8864-46a8-9b92-26b246280a8b |
| National Custodian | Karen Alford (FCRM Manager) |
| IMPROVEMENTS / UPDATE FREQUENCY | |
| <p>The data is subject to continual improvement through; updated spatial accuracy, increased completeness and improved attribute data quality.</p> <p>As the EA builds new flood defences or updates existing ones, the dataset will be refreshed. Updates to the dataset are published quarterly (month and year are published in the file name) on www.data.gov.uk and users are strongly advised to ensure they are referring to the most current version.</p> | |

Data Schema

Beach Structure

<https://environment.data.gov.uk/asset-management/dri-app/asset-types>

| | | |
|----|-----------------------|---|
| 1 | shape | Shape |
| 2 | asset_id | Asset ID |
| 3 | asset_name | Asset Name |
| 4 | asset_sub_type | Asset Sub Type |
| 5 | primary_purpose | Primary Purpose |
| 6 | alternative_purpose_1 | Alternative Purpose 1 |
| 7 | alternative_purpose_2 | Alternative Purpose 2 |
| 8 | protection_type | Protection Type |
| 9 | asset_maintainer | Asset Maintainer |
| 10 | asset_operator | Asset Operator |
| 11 | asset_owner | Asset Owner |
| 12 | current_condition | Current Condition |
| 13 | target_condition | Target Condition |
| 14 | current_sop | Current Standard of Protection |
| 15 | current_sop_date | Current Standard of Protection Date |
| 16 | design_sop | Design Standard of Protection |
| 17 | design_sop_dqf | Design Standard of Protection Data Quality Flag |
| 18 | year_last_refurbished | Year Last Refurbished |
| 19 | last_inspection_date | Last Inspection Date |
| 20 | next_inspection_date | Next Inspection Date |
| 21 | asset_start_date | Asset Start Date |
| 22 | water_management_area | Water Management Area |
| 23 | local_authority | Local Authority |
| 24 | frms_code | Flood Risk Management System Code |

customer service line
03708 506 506

incident hotline
0800 80 70 60

floodline
0345 988 1188
0845 988 1188

www.gov.uk/environment-agency

Example of data (using GIS)



Note - base mapping is not included with product.

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