Scottish Environment Protection Agency
Buidheann Dìon Àrainneachd na h-Alba

For the future of our environment

Coastal Flood Map Dataset Version 3.0

25 February 2025

SEPA Flood Map Version 3.0 – Coastal Dataset

1. Release Details

Release Date: 25 February 2025

Version 3.0 of the Flood Maps supersedes the previous version (v2.1) published in November 2023. Further details on the changes can be found in the accompanying release notes.

2. Dataset Description

The coastal flood maps provide a national dataset to show those areas of Scotland at risk of coastal flooding. These maps have been produced to meet SEPA's duty to publish flood hazard maps as set out in the Flood Risk Management (Scotland) Act 2009 and are based on national, regional and local scale flood modelling. Information is provided on the extent and depth of coastal flooding, including different likelihoods of flooding:

Time Horizon	Likelihood of flooding	Return period
Present Day	High	10 year
Present Day	Medium	200 year
Present Day	Low	1000 year
Climate Change 2080 – High Emissions	Medium	200 year

This dataset is designed to raise awareness of the likelihood of flooding to support informed decision making in areas prone to flooding.

Further technical details on the development of these flood maps can be found on the SEPA website: www.sepa.org.uk/environment/water/flooding/developing-our-knowledge/

3. Related Datasets

Other datasets available that can also be used to better understand Scotland's flood risk include:

- River Flood Maps
- Surface Water & Small Watercourses Flood Maps

4. Data Attribution

Any use of this product must fully acknowledge the sources of the data. In addition to the following SEPA required attribution statement, those in the accompanying data attribution document must also be linked to as a locally hosted copy as the SEPA website is subject to change.

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An attribution statement should be clearly visible where data from SEPA has been included in your work/product.

5. Data Usage Precautionary Note

The SEPA Flood Maps have been developed to inform strategic level decision making at a community scale, they may not be appropriate for use at a more detailed scale, i.e. property level.

The data provided within the SEPA Flood Maps reflects the information that we hold within our databases. Whilst we aim to avoid quality problems and provide datasets without errors, they may still exist. If issues are experienced whilst using the flood maps, users are requested to report these to us so that they can be logged for consideration within a future version of the flood maps.

6. Dataset Content

The metadata fields which can be found within the flood map datasets are described below in the detailed dataset schema.

Table 1: Description of flood map metadata fields

Field Name	Description	Data Type	Field Length	Guidance
OBJECTID/FID	Internal Feature Number	Integer	-	Automatically generated number
MAP_TYPE	Type of Mapping	Text	50	Hazard
SOURCE	Source of Flooding	Text	50	Coastal
METRIC	Metric of flooding within the dataset	Text	50	• Extent (see Table 2) • Depth (see Table 3)
PROB	Probability of flooding	Text	50	H: High, M: Medium, L: Low, M_CC: Medium plus Climate Change
BAND_DESC	Description of the metric of flooding	Text	50	• Extent (see Table 2) • Depth (see Table 3)
GRIDCODE	Numeric code to describe the metric of flooding	Integer	-	• Extent (see Table 2) • Depth (see Table 3)
SCENARIO	Description of the climate scenario type	Text	50	Present Day (999) or listed climate scenario (≥ 1)

Field Name	Description	Data Type	Field Length	Guidance
CCGRIDCODE	Numeric code to describe the climate scenario type	Integer	-	≥ 1 (Climate Scenario), 999 (Present Day)
REFERENCE	Spatial geographic area reference.	Text	50	Location of data not available for climate change dataset. Field currently unused for other coastal datasets
VERSION	Version number of flood map	Text	50	Format v#_#, denoting Major_Minor release
ISSUE_DATE	Publication date	Date	-	Date dataset is valid from/supersedes any previous map version
Shape	Feature Geometry	Geometry	-	Automatically generated number
Shape_length	Feature Geometry	Geometry	-	Automatically generated number for Polygon/Line geometry type
Shape_Area	Feature Geometry	Geometry	-	Automatically generated feature class field for Polygon geometry type

Table 2: Description of flood Extent metadata fields

Flood EXTENT Datasets				
Field Name	**Description**	**Data Type**	**Field Length**	**Guidance**
METRIC	Metric of flooding within the dataset	Text	50	Extent
BAND_DESC	Description of the extent metric of flooding	Text	50	Acceptable Values: • Appropriate (1) • Data not Appropriate (999)
GRIDCODE	Numeric code to describe the extent metric of flooding	Integer	-	Acceptable Values • 1 • 999

Table 3: Description of flood Depth metadata fields

Flood DEPTH Datasets				
Field Name	**Description**	**Data Type**	**Field Length**	**Guidance**
METRIC	Metric of flooding within the dataset	Text	50	Depth
BAND_DESC	Description of the depth metric of flooding	Text	50	Acceptable Values: • < 0.3m (1) [Less than 0.3m] • 0.3 - 1m (2) • > 1.0m (3) [Greater than 1m] • Data not available (999)

Flood DEPTH Datasets				
Field Name	**Description**	**Data Type**	**Field Length**	**Guidance**
GRIDCODE	Numeric code to describe the depth metric of flooding	Integer	-	Acceptable Values • 1 • 2 • 3 • 999

7. Dataset Symbology

The colours/data formats used to display the coastal flood map datasets on the SEPA website can be found in the symbology described below.

Table 4: Coastal Flood Map Symbology

Flood Hazard Metric	Display	RGB Value	ArcGIS /QGIS Transparency	Example
Extent: High Depth: Greater than 1m	Polygon	R: 43 G: 158 B: 15	20% / 80%	
Extent: Medium Probability Depth: 0.3 - 1m	Polygon	R: 76 G: 201 B: 0	20% / 80%	
Extent: Low Probability Depth: Less than 0.3m	Polygon	R: 171 G: 255 B: 158	20% / 80%	
Extent: Medium Probability plus Climate Change	Polygon	R: 0 G: 115 B: 76	20% / 80%	

Flood Hazard Metric	Display	RGB Value	ArcGIS /QGIS Transparency	Example
Data not available	Polygon	R: 156 G: 156 B: 156	20% / 80%	

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