



## Change in the frequency of flooding events under projected sea level rise (RCP 4.5; change between 2010 and 2100; multiplication factor), Dec. 2016

This dataset presents the estimated multiplication factor by which the frequency of flooding events of a given height in European tide gauges will change between 2010 and 2100, due to projected regional sea relative level rise under the Representative Concentration Pathways (RCP) 4.5 scenario. Values larger than 1 indicate an increase in flooding frequency. This dataset is derived from the Figure 13.25(b) of the Working Group I contribution to the IPCC Fifth Assessment Report ([http://www.climatechange2013.org/images/report/WG1AR5\\_ALL\\_FINAL.pdf](http://www.climatechange2013.org/images/report/WG1AR5_ALL_FINAL.pdf)).

This dataset also contributes to an earlier version of the EEA Indicator "Global and European sea-level": <https://www.eea.europa.eu/data-and-maps/indicators/sea-level-rise-5/assessment>.

### Simple

Date (Creation)	2016-06-25T00:00:00
Date (Publication)	2016-12-20T00:00:00
Edition	01.00
Citation identifier	eea_v_4326_10_mio_change-coastal-flooding_p_2010-2100_v01_r00

### Point of contact

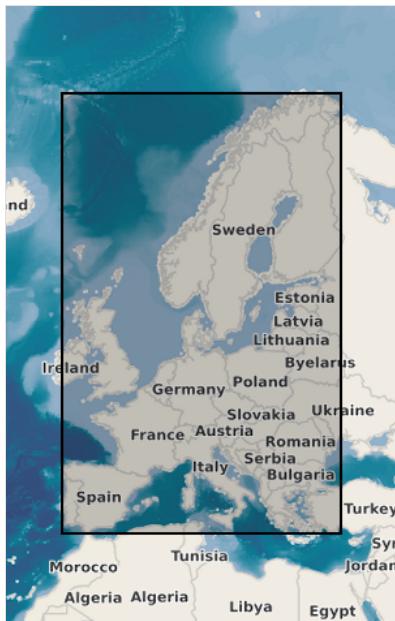
No information provided.

Maintenance and update frequency	Not planned
GEMET - INSPIRE themes, version 1.0	<ul style="list-style-type: none"><li><a href="#">Natural risk zones</a></li></ul>
Keywords	
Keywords	
GEMET	<ul style="list-style-type: none"><li>climate change impact</li><li>sea level rise</li><li>sea level</li><li>coast</li><li>coastal flooding</li><li>flooding</li><li>climate change adaptation</li><li>climate</li></ul>
Continents, countries, sea regions of the world.	<ul style="list-style-type: none"><li>Switzerland</li><li>EU28 (2013-2020)</li><li>Iceland</li><li>Norway</li></ul>
Spatial scope	<ul style="list-style-type: none"><li><a href="#">European</a></li></ul>
EEA topics	<ul style="list-style-type: none"><li>Climate adaptation</li></ul>

### Resource constraints

No information provided.

<b>Access constraints</b>	Other restrictions
<b>Other constraints</b>	<a href="#">no limitations to public access</a>
<b>Use constraints</b>	Other restrictions
<b>Other constraints</b>	<p>EEA standard re-use policy: unless otherwise indicated, re-use of content on the EEA website for commercial or non-commercial purposes is permitted free of charge, provided that the source is acknowledged.</p> <p>Copyright statement should acknowledge the data sources: Intergovernmental Panel on Climate Change (IPCC), Antarctic Climate &amp; Ecosystems Cooperative Research Centre, as well as the EEA Copyright Notice ( <a href="https://www.eea.europa.eu/legal/copyright">https://www.eea.europa.eu/legal/copyright</a> ).</p>
<b>Spatial representation type</b>	Vector
<b>Denominator</b>	10000000
<b>Language of dataset</b>	English
<b>Topic category</b>	<ul style="list-style-type: none"> <li>• Environment</li> <li>• Climatology, meteorology, atmosphere</li> </ul>
<b>Begin date</b>	2010-01-01
<b>End date</b>	2100-12-31



<b>Coordinate reference system identifier</b>	<a href="#">EPSG:4326</a>		
<b>Distribution format</b>	<ul style="list-style-type: none"> <li>• SHP ( )</li> </ul>		
<b>OnLine resource</b>	<b>Protocol</b> EEA: FOLDERPATH  WWW:LINK-1.0-http--link  WWW:URL  OGC:WMS  ESRI:REST  WWW:LINK-1.0-http--link	<b>Linkage</b> <a href="https://sd.eea.europa.eu/webdav/datastore/public/eea_v_4326_10_mio_change-coastal-flooding_p_2010-2100_v01_r00/">https://sd.eea.europa.eu/webdav/datastore/public/eea_v_4326_10_mio_change-coastal-flooding_p_2010-2100_v01_r00/</a> <a href="https://climate-adapt.eea.europa.eu/knowledge/tools/urban-adaptation">https://climate-adapt.eea.europa.eu/knowledge/tools/urban-adaptation</a> <a href="https://sd.eea.europa.eu/data/723f0742-727b-45ec-a70d-df6292b7e003">https://sd.eea.europa.eu/data/723f0742-727b-45ec-a70d-df6292b7e003</a>  <a href="https://climate.discomap.eea.europa.eu/arcgis/services/UAMV_Projected_Change_Frequency_Coastal_Flooding/MapServer/WMServer?request=GetCapabilities&amp;service=WMS">https://climate.discomap.eea.europa.eu/arcgis/services/UAMV_Projected_Change_Frequency_Coastal_Flooding/MapServer/WMServer?request=GetCapabilities&amp;service=WMS</a> <a href="https://climate.discomap.eea.europa.eu/arcgis/rest/services/UAMV/Projected_Change_Frequency_Coastal_Flooding/MapServer">https://climate.discomap.eea.europa.eu/arcgis/rest/services/UAMV/Projected_Change_Frequency_Coastal_Flooding/MapServer</a> <a href="https://www.eea.europa.eu/en/analysis/indicators/global-and-european-sea-level-rise">https://www.eea.europa.eu/en/analysis/indicators/global-and-european-sea-level-rise</a>	<b>Name</b>  Direct download
<b>Hierarchy level</b>	Dataset		

## Conformance result

<b>Date (Publication)</b>	2010-12-08
<b>Explanation</b>	See the referenced specification

<b>Statement</b>	Adapted from Figure 13.25(b) of the Working Group I contribution to the IPCC Fifth Assessment Report ( <a href="http://www.climatechange2013.org/images/figures/WGI_AR5_Fig13-25.jpg">http://www.climatechange2013.org/images/figures/WGI_AR5_Fig13-25.jpg</a> ). The dataset is based on the Summary of AR5 regional projections and allowances, from the Antarctic Climate & Ecosystems Cooperative Research Centre ( <a href="http://www.acecrc.org.au/">http://www.acecrc.org.au/</a> ), 2014.  Sea-level data from tide gauges were supplied by European Sea-Level Service, Global Sea Level Observing System (GLOSS) Delayed Mode Centre, Helpdesk Water (Netherlands), Instituto Español de Oceanografía (Spain), Istituto Talassografico di Trieste (Italy), Marine Environmental Data Service (Canada), National Oceanography Centre Liverpool (UK), National Tidal Centre (Bureau of
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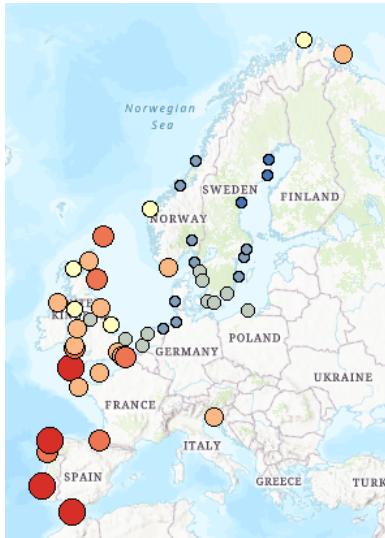
Meteorology, Australia), Norwegian Mapping Authority, Service Hydrographique et Océanographique de la Marine (France), Swedish Meteorological and Hydrological Institute and University of Hawaii Sea Level Centre (USA). Sea-level rise projections are based on the CMIP5 ensemble of global climate models.

More information about the methodology can be found here: <http://dx.doi.org/10.1007/s10584-011-0332-1>, <http://dx.doi.org/10.1016/j.oceaneng.2012.12.041>.

## Metadata

File identifier	723f0742-727b-45ec-a70d-df6292b7e003 <a href="#">XML</a>		
Metadata language	English		
Character set	UTF8		
Hierarchy level	Dataset		
Date stamp	2024-02-26T13:39:28.65Z		
Metadata standard name	ISO 19115/19139		
Metadata standard version	1.0		
Metadata author	Organisation name  European Environment Agency	Individual name	Electronic mail address  sdi@eea.europa.eu
			Website Role  Point of contact

## Overviews



## Provided by

