Extreme Sea level - Historical

Description:
The Extreme Sea Level (ESL) dataset presents the distribution of the total water level (TWL) design conditions at the European coastline. The TWL is estimated from the dynamical simulation of the major hydrodynamic sea level components (being the mean sea level, tides, storm surges and waves) as derived from an ensemble of 6 climatic models for the period from 01/12/1969 to 30/11/2004. The dataset contains the design conditions for both the TWL and the episodic component (storm surge level and wave height) that may affect the coastline during intense storm events. For further information regarding this dataset, the users are referred to the following article Michalis Vousdoukas, Lorenzo, Mentaschi, Evangelos Voukouvalas, Martin Verlaan, Luc Feyen (in press 2017). Extreme sea levels on the rise along Europe’s coasts. Earth's Future. DOI:10.1002/2016EF000505 http://onlinelibrary.wiley.com/doi/10.1002/2016EF000505/full

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Vousdoukas, Michail; Mentaschi, Lorenzo; Voukouvalas, Evangelos; Verlaan, Martin; Feyen, Luc(2016): Extreme Sea level - Historical. European Commission, Joint Research Centre (JRC) [Dataset] PID: http://data.europa.eu/89h/9e5ba6f1-8d03-4834-8488-2353e504560f

Keywords:
Oceanographic geographical features, Sea Level Rise, Sea regions, Storm Surge Level, Total Water Level, Waves

Related resources:
Data access
Extreme Sea Level - Historical
NETCDF Format.

Additional information:
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EuroVoc domain(s): 12 LAW; 36 SCIENCE; 52 ENVIRONMENT
EuroVoc concept(s): maritime area; ocean; oceanography; sea
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Geographic information:
Lineage: This is the official version of the ESL dataset. While the dataset may not be subject to and cannot be validated, this dataset has been created following the current research methodologies.
Geographic bounding box: 71.3589° N, 41.5208° E, 26.9813° S, -29.0571° W