



## **Analysis of coastal impact in Basque Country area**

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Severe weather phenomena impact the European society and economy in many ways, from disruption in various sectors and substantial damages in infrastructure to human and economic losses. Basque Country is recurrently affected by swell episodes and high waves as a consequence of high fetch situations generated by remote deep lows and NW gales configurations. Coincidence of those situations with spring tides usually promotes some degree of littoral impact and economic losses in the area.

In this work we focus on coastal damages that are produced when ocean-meteorological conditions causes some degree of energetic sea waves intrusions over land areas. The characterization of these situations is complex, different factors as ocean-meteorological (significant wave high, swell, peak period, tides, etc.), coastal configuration (slope and orientation among others) and others must be considered in order to deal with impact.

We present an analysis of economic impact in Basque coastal areas. For this purpose we study “battering of coastal waters“ damage data provided by the Spanish Insurance Compensation Consortium. Those data are analyzed considering different aspects as location, date, damage type, etc. in order to extract some conclusions. We also include different met-ocean observations available in the area. The final objective is to contribute in reducing the knowledge gaps at the interface between available ocean-meteo prediction/analysis systems and impact observed in Basque Country littoral areas.