## Mediterranean coastal database (MCD)

## Citation:

-to be added after publication-

## **Abstract:**

We have developed a new coastal database for the Mediterranean basin that is intended for coastal impact and adaptation assessment to sea-level rise and associated hazards on a regional scale. The data structure of the database relies on a linear representation of the coast with associated spatial assessment units. Using information on coastal morphology, human settlements and administrative boundaries, we have divided the Mediterranean coast into 13,900 coastal assessment units. To these units we have spatially attributed 158 parameters on the characteristics of the natural and socioeconomic subsystems, such as extreme sea levels, vertical land movement and number of people exposed so sea-level rise and extreme water levels. The database contains information on current conditions and on plausible future changes that are essential drivers for future impacts, such as sealevel rise rates and socio-economic development. The database has been developed to support risk and impact assessment to sea-level rise and can be used in a wide range of coastal applications.

## **Details on file structure:**

Files	Content
Coastal segments shapefile	Coastal segment shapefile, including
	information on segment length, latitude,
	longitude, country_name,
	administrative_unit_name, admin_id and
	locationid.
Python scripts	Inlcudes all the python scripts that have been
	produced for the MCD
MCD – coastal segment level	Contains the data on coastal segment level, see
	table 1 of the manuscript for detailed
	information
MCD – coastal assessment unit level	Contains the data on coastal assessment unit
	level, see table 1 of the manuscript for detailed
	information
Coastal assessment units grid	Grid of the coastal assessment units, 90m
	resolution
Administrative boundaries shapefile	Shapefile of the administrative boundaries
	including information on ISO code,
	country_name, administrative_unit_name and
	admin_id