



COSTA I Med Tyrrhenian WEBGIS METADATA

DATASET	CONTENTS	SPATIAL ENTITY	SOURCE	URL
Tyrrhenian study area	Boundary of the tyrrhenian project area	Vector (Polygon)	Prin Costamed Project	https://costamed.uniroma3.it/
3D – Focus areas	Aree di approfondimento 3D	Vector (Polygon)	Prin Costamed Project	https://costamed.uniroma3.it/
ECOLOGICAL ASSETS				
Ecosystem value	Composite indicator of overall ecological value, integrating vegetation vigor, ecosystem structure, connectivity, and protected areas	Vector (Polygon)	Prin Costamed Project	https://costamed.uniroma3.it/
SAVI index	Soil Adjusted Vegetation Index derived from Sentinel-2 imagery, used to assess vegetation density and vigor while reducing soil background effects	Raster (10x10 m)	Sentinel -2 satellite imagery	https://dataspace.copernicus.eu/data-collections/copernicus-sentinel-data/sentinel-2
Macro-ecosystems classification	Functional classification of land cover into macro-ecosystem types (natural, agricultural, forest, wetland, urban)	Vector (Polygon)	Prin Costamed Project	https://costamed.uniroma3.it/
Protected areas	Environmentally protected sites (e.g. Natura 2000 network) representing areas of high conservation importance	Vector (Polygon)	European Environment Agency	https://www.eea.europa.eu/en/datahub/datahubitem-view/6fc8ad2d-195d-40f4-bdec-576e7d1268e4
Copernicus Small Woody Features 2018	Linear and point woody vegetation elements (hedgerows, tree lines, isolated trees) supporting ecological connectivity and biodiversity	Raster (5x5 m)	Copernicus Land Monitoring Service (CLMS)	https://land.copernicus.eu/en/products/high-resolution-layer-small-landscape-features/small-woody-features-2018
CLIMATE RISK				
Risk value	Composite climate risk indicator integrating sea-level rise exposure, coastal vulnerability, and hydraulic hazard	Raster (5x5 m)	Prin Costamed Project	https://costamed.uniroma3.it/
Sea level rise scenarios	Potential coastal inundation areas derived from IPCC RCP 4.5 and RCP 8.5 sea-level rise projections	Raster (5x5 m)	Prin Costamed Project	https://costamed.uniroma3.it/
Coastal vulnerability	Index of physical vulnerability of the coastline, based on erosion dynamics, beach morphology, wave climate, and anthropic pressure	Vector (Polygon)	Di Muzio, I., Seraceno, L., Tullio, D., Franco, L., Bellotti, G., Cecioni, C., Romano, A. Vulnerability analysis of Lazio Region coasts for an integrated protection plan. Technical report / conference contribution, Roma Tre University, Coastal Engineering Group, 2020–2022	https://ingegneriacivileinformaticaeconologiaaeronautiche.uniroma3.it/
Hydraulic hazard	Flood-prone areas classified according to official PAI hydraulic hazard levels (low, medium, high)	Vector (Polygon)	ISPRA IdroGEO open data	https://beta.idrogeo.isprambiente.it/app/page/open-data
CULTURAL VALUE				
Cultural heatmap	Density-based representation of socio-cultural value derived from the spatial concentration of cultural ecosystem service locations	Vector (Point)	Prin Costamed Project	https://costamed.uniroma3.it/
Cultural Ecosystem Services – Source: Google	Crowdsourced cultural ecosystem service points derived from Google Maps reviews, reflecting recreational, natural, and heritage-related uses	Vector (Point)	Google API	https://www.google.com/maps
Cultural Ecosystem Services (points) – Source: PTPR Lazio	Point features representing protected cultural and historical assets defined by the Regional Landscape Plan (PTPR Lazio)	Vector (Point)	Piano Territoriale Paesaggistico Regionale (PTPR) Lazio	https://geoportale.regione.lazio.it/catalogue/#/map/42
Cultural Ecosystem Services (areal) – Source: PTPR Lazio	Areal features of culturally and historically protected sites designated by the Regional Landscape Plan (PTPR Lazio)	Vector (Polygon)	Piano Territoriale Paesaggistico Regionale (PTPR) Lazio	https://geoportale.regione.lazio.it/catalogue/#/map/42
Basemap elements				
Contour lines	Elevation contour lines derived from the Lazio Regional Technical Map	Vector (Line)	CTRN - DBGT 2020 (cv_liv)	https://geoportale.regione.lazio.it/catalogue/#/document/1117
Buildings	Building footprints derived from the Lazio Regional Technical Map	Vector (Polygon)	CTRN - DBGT 2020 (un_vol)	https://geoportale.regione.lazio.it/catalogue/#/document/1117
Lakes	Standing water bodies (lakes/ponds/reservoirs) derived from the Lazio Regional Technical Map	Vector (Polygon)	CTRN - DBGT 2020 (sp_acq)	https://geoportale.regione.lazio.it/catalogue/#/document/1117
Roads	Road network derived from the Lazio Regional Technical Map	Vector (Polygon)	CTRN - DBGT 2020 (ar_str)	https://geoportale.regione.lazio.it/catalogue/#/document/1117
River network	Watercourse network (rivers and canals) derived from the Lazio Regional Technical Map	Vector (Line)	CTRN - DBGT 2020 (el_idr)	https://geoportale.regione.lazio.it/catalogue/#/document/1117