

MAREGOT is a project aimed at the joint prevention and management of the risks arising from coastal erosion in the cooperation area.

Short-term risks

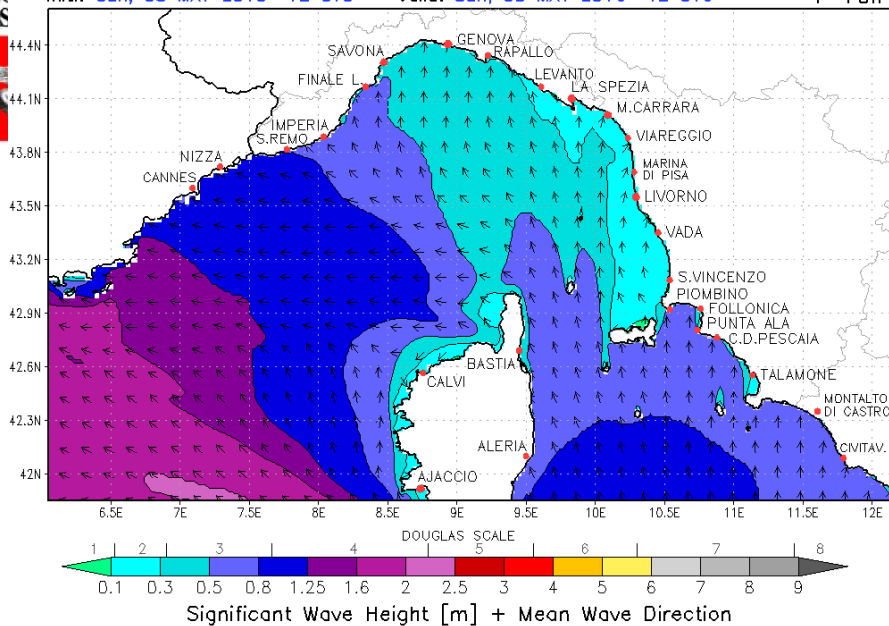
Rip Currents

Coastal flood

Storm surge

Long-term risks

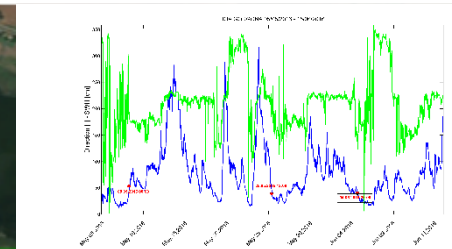
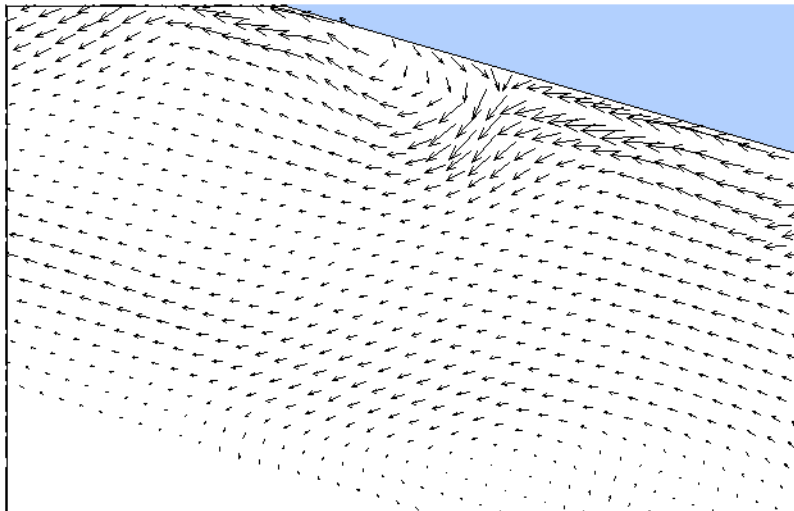
Coastal erosion (climate change)



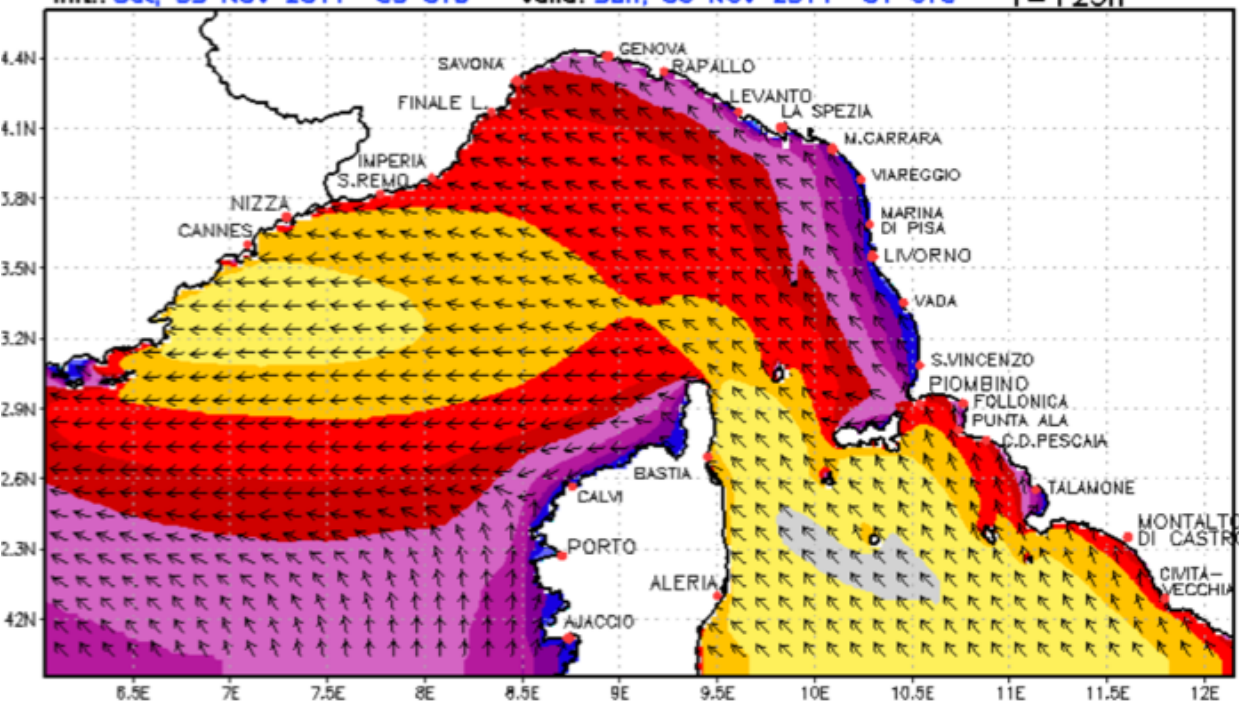
Rip Currents



DEM3D-FLOW, depth averaged velocity at: 20160506-12 UTC

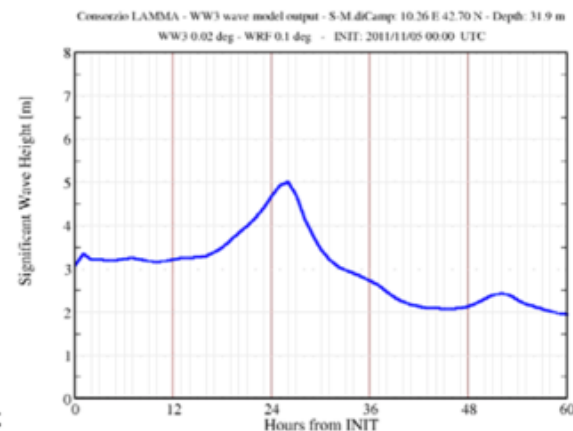


Consorzio LaMMA WW3 0.02deg - NMM 0.1deg
 Init.: Sat, 05 NOV 2011 00 UTC Valid: Sun, 06 NOV 2011 01 UTC T=+25h



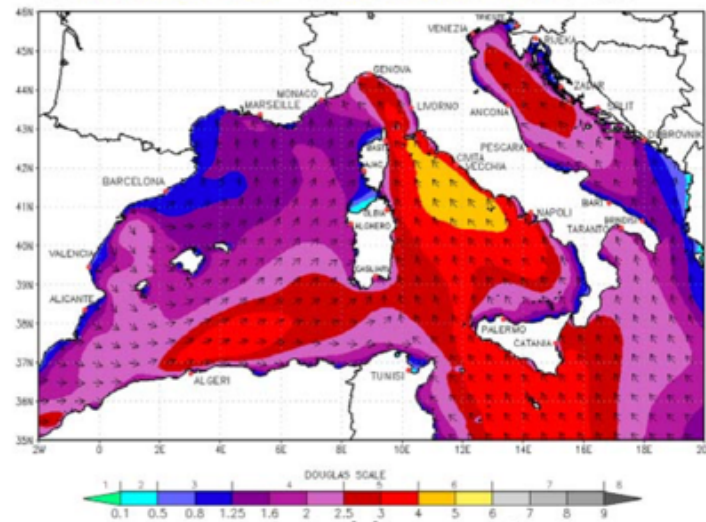
Storm surge of 6th November causing a big flood Southern to the Elba Island also caused by wave set-up

6-7/11/2011



Coastal flood/storm surge

Consorzio LaMMA WW3 0.1deg - NMM 0.1deg
 Init.: Thu, 03 NOV 2011 00 UTC Valid: Sun, 06 NOV 2011 03 UTC T=+75h



Marine-weather large
scale forecast models
(e.g. WW3)

Wave
parameters/
wave spectra

Weather forecast
models (e.g. WRF)

Wind / air
pressure

Regional scale models
Hydrodynamics/waves
(e.g. ROMS)

Sea level,
waves

Sea level,
waves

Local scale
models (e.g.
Xbeach)

Decision Support System

