

JERICO Next Malta Summer School 2018

Mini – Hackathon



Environmental data for marine animal behaviour

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First Step : Installing & Using M_Map

M_Map:
A mapping package for [Matlab](#)

You have collected your data, loaded it into [Matlab](#), analyzed everything to death, and now you want to make a simple map showing how it relates to the world.

But you can't.

Instead you have to figure out how to save all your data, and then read it into another program (like, for example [GMT](#)), and then spend all that extra time figuring out why it doesn't give you what you expected it would...or you can invest in Matlab's own mapping toolbox (with a similarly steep learning curve)... or not!

**Announcing M_Map v1.4j!
(released May/2018)**

M_Map is a set of mapping tools written for Matlab (it also works under [Octave](#)). M_Map includes:

1. Routines to project data in 19 different projections (and determine inverse mappings), using spherical and ellipsoidal earth-models.
2. A grid generation routine to make nice axes with limits either in lat/long terms or in planar X/Y terms.
3. A coastline database (with 1/4 degree resolution).
4. A global elevation database (1 degree resolution).
5. Hooks into freely available high-resolution coastline and bathymetry databases.
6. Other useful stuff.

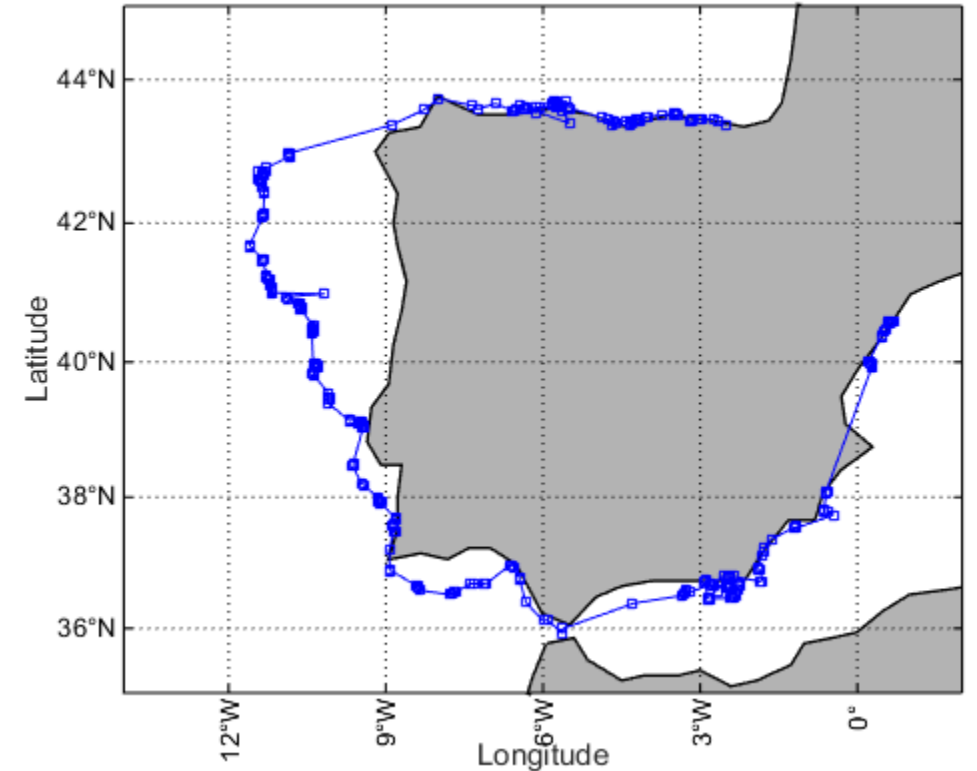
Gallery

The gallery displays five small map images: a globe with a red landmass, a map of a region with a grid, a map of a region with a grid and labels, a map of a region with a grid and labels, and a map of a region with a grid and labels.

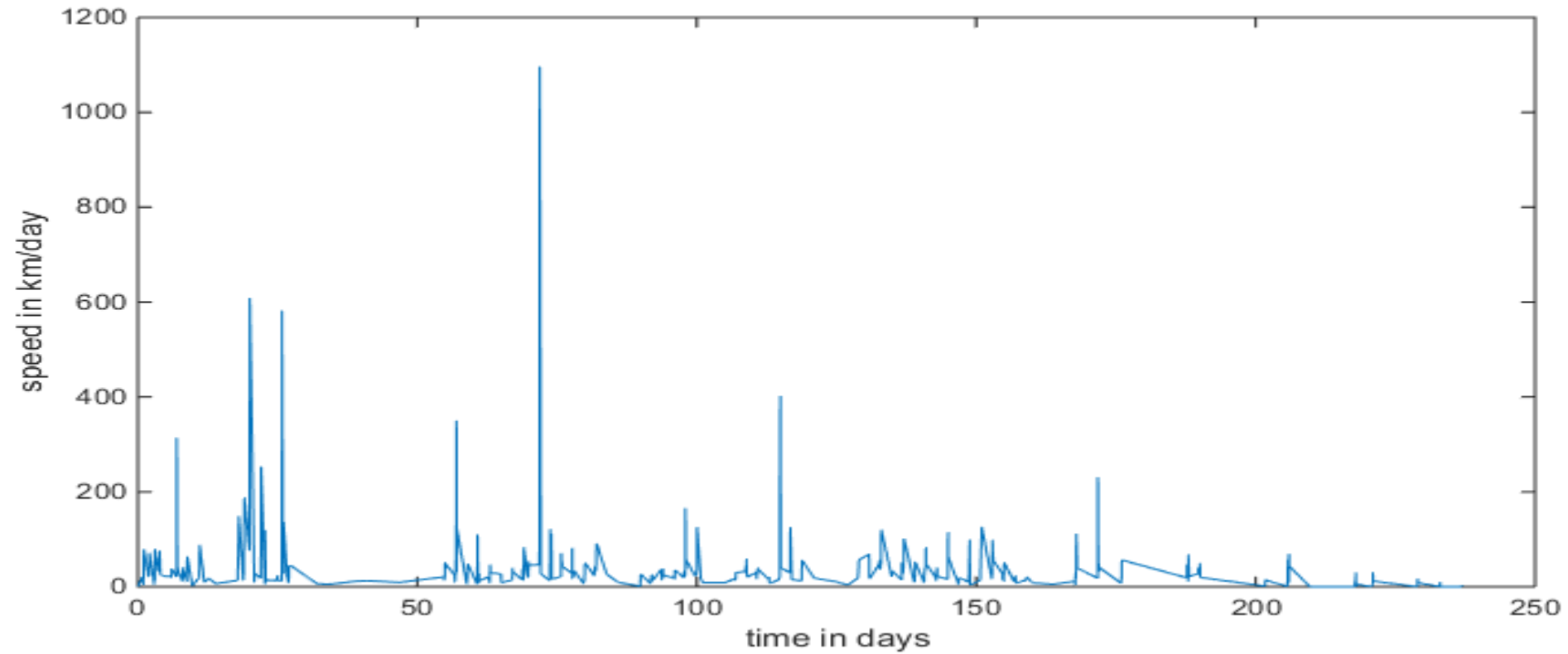
Second Step : **PLOTING TURTLE TRACK USING MATLAB**



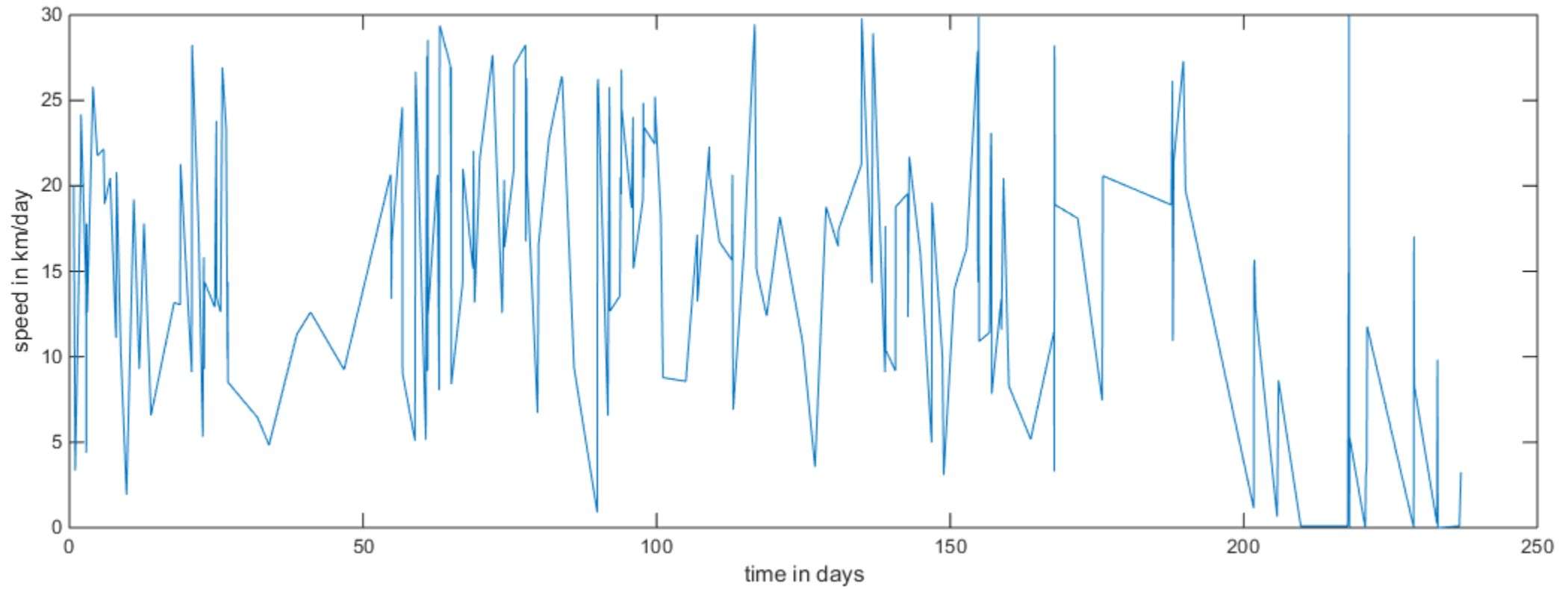
Meet Antioche !



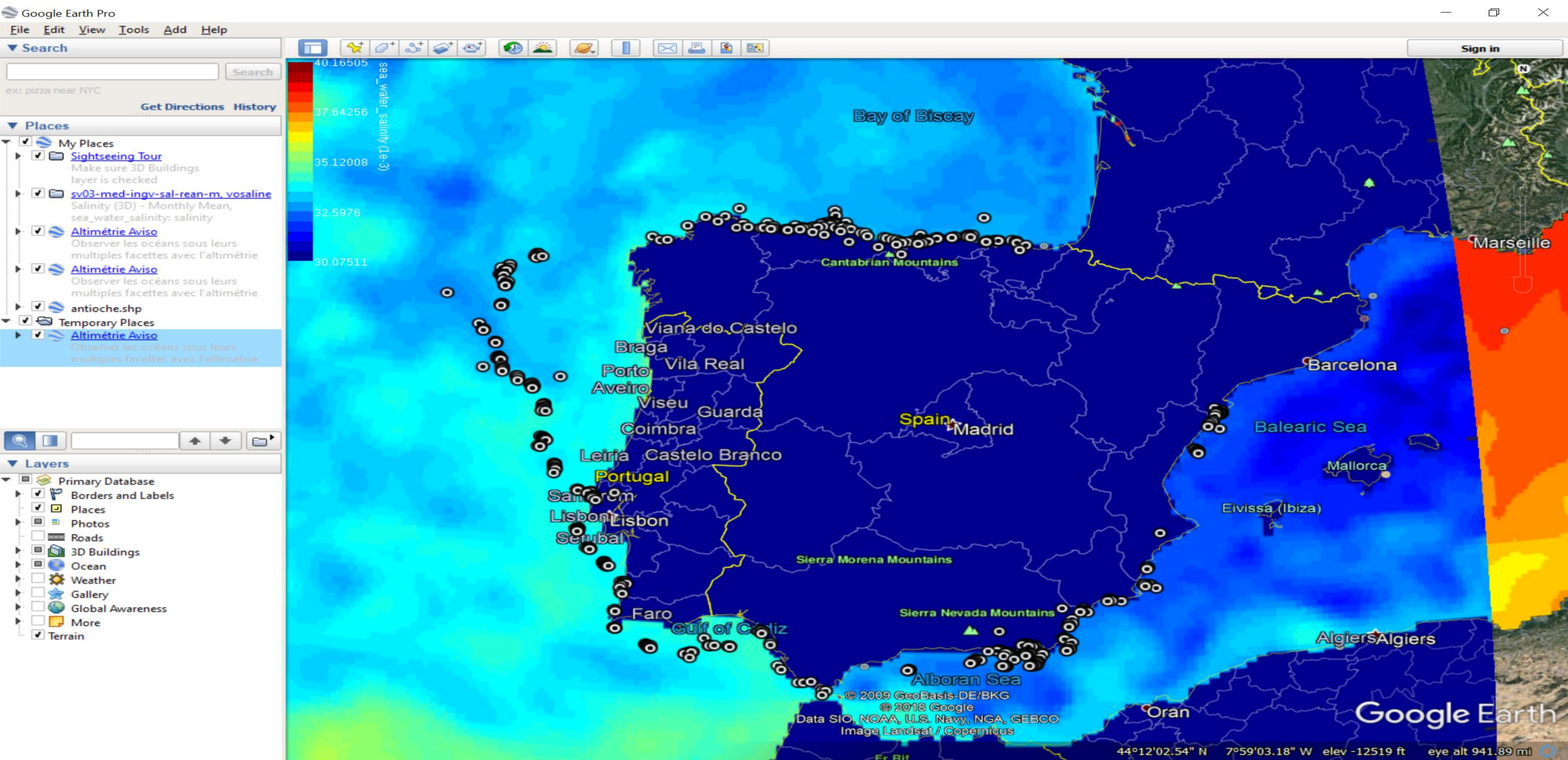
Third Step : ANALYZING THE TURTLE TRACK DATA & REMOVING NOISE

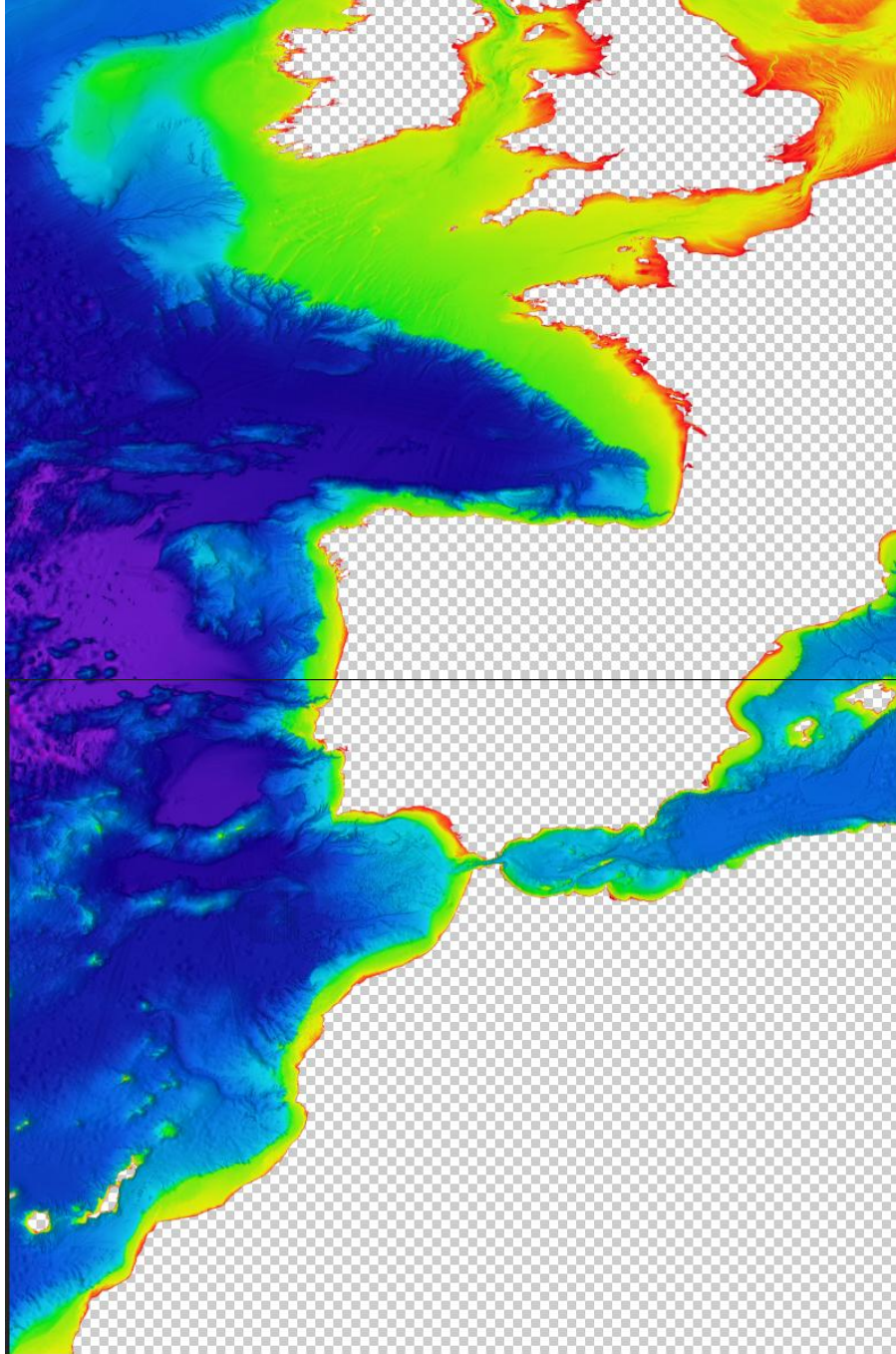


Fourth step : THE CLEAN TRACK SPEED

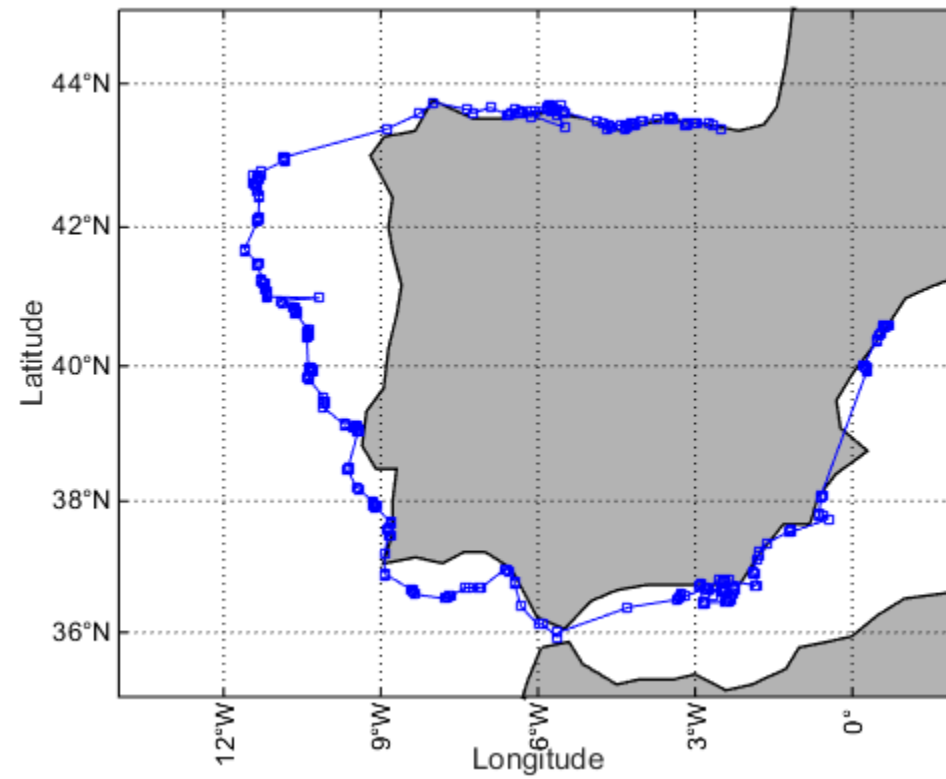


SEA SURFACE HEIGHT with the turtle track





Bathymetry



Thank you for your Attention

