

Les robots sous-marins

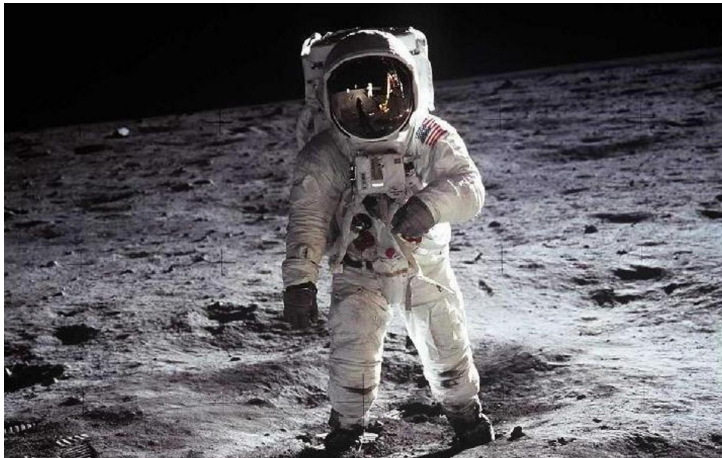
L. Jaulin

Présentation pour les 4ième de St Anne de Plougastel
Lundi 18 novembre 2019



Ocean satellites

Ocean satellites ?



Robots are needed for dirty, dangerous and dull jobs



Curiosity



About 3,600 satellites in orbit.

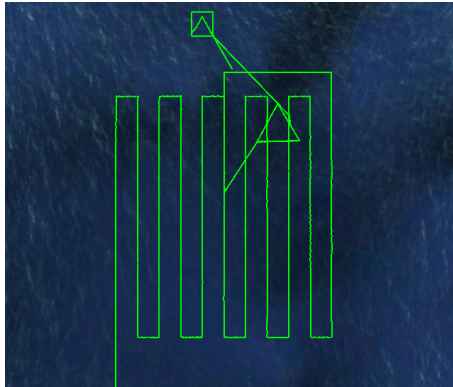
In the ocean, we have gliders, drifting buoys.

In the ocean, a robot could be autonomous in energy, and could survive for years (**persistent autonomy**).

Vaimos



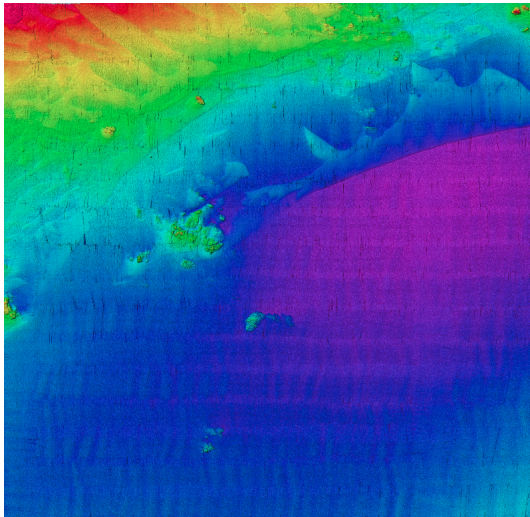




Middle of Atlantique ocean, 350 km made by Vaimos, sept. 6-9, 2012.

Mapping





Recherche de la Cordelière

Recherche de la Cordelière



Reconstitution de la bataille

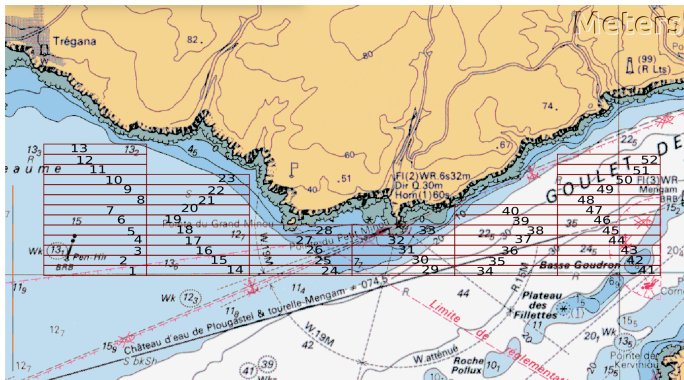
[Youtube](#)



Premières recherches avec Boatbot

[Youtube](#)

[boatbot.html](#)

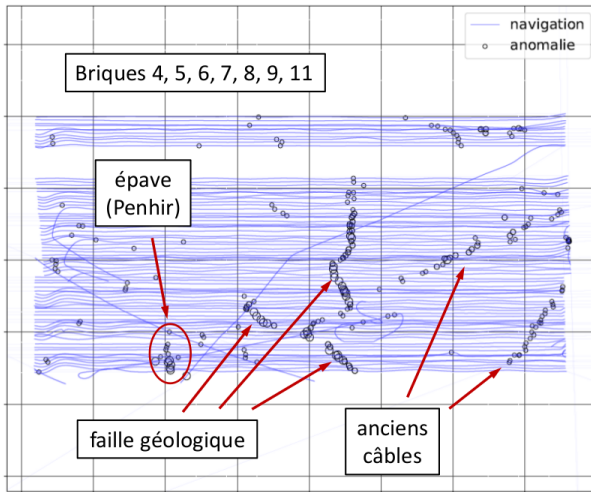




Boatbot tracte un magnétomètre

youtu.be/cxVs1fDdm1s





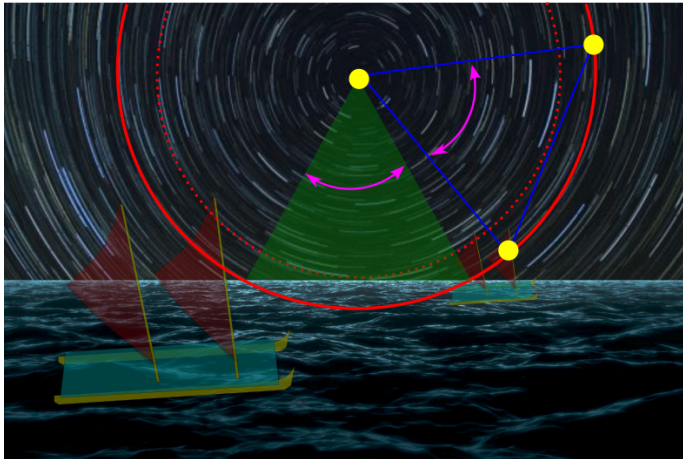
All underwater

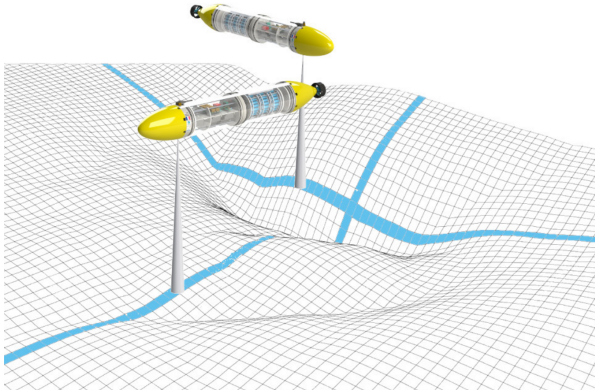


Submeeting 2018

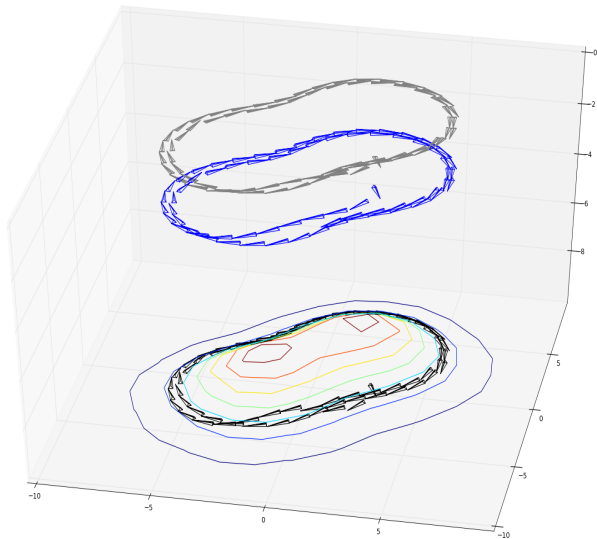


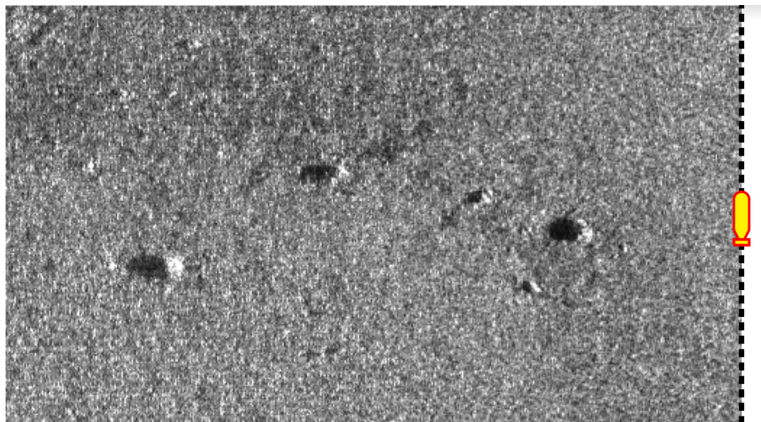
Find the route without GPS, compass and clock





[2]







L. Jaulin.

Isobath Following using an Altimeter as a Unique Exteroceptive Sensor.

In Sophia M. Schillai and Nicholas Townsend, editors, *Robotic Sailing 2018*, pages 105–110, 2018.



S. Rohou.

Reliable robot localization: a constraint programming approach over dynamical systems.

PhD dissertation, Université de Bretagne Occidentale, ENSTA-Bretagne, France, december 2017.