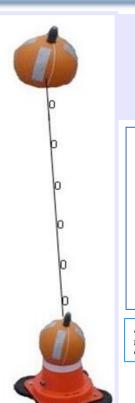
### Mastodon-2D

## **Deployment in Mediterranean Sea During Upcast field Experiment**

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#### Original development of a "low cost" temperature profiler

- Dimensions on the ground: 40cm X 40cm X 40cm
- Line high: 120 -200 metres
- Line: 3mm thickness, equipped with 10 T and P sensors
- unitary cost ~1500 euros



# **UPCAST: Upwelling and meso-scale processes** of the Cassidaigne and Toulon areas

#### **Objectives**

- Assess MASTODON-2D deployment at depths > 100m: 1 month during UPCAST (August-September 2017) during an upwelling period => 4 lines deployed and recovered (bottom depths 130-210m, buoys 5-10m under the surface)
- Investigate the water column response to upwelling and interaction with meso-scales processes in two
  contrasted areas, Toulon and Cassidaigne, using the MASTODON-2D mooring lines developed in the
  framework of JERICO-NEXT
- Understand the upwelling dynamics and its relaxation in the the water column

