MAPPEM GEOPHYSICS
Marine Electromagnetic Investigation
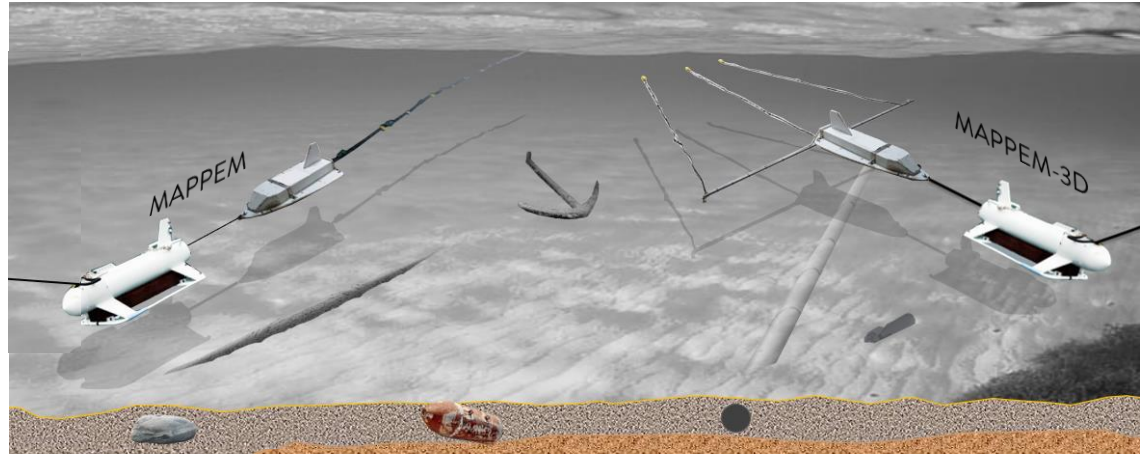
Detection and Localization of Buried Objects

Our services

- Detection of buried objects and obstructions.

- Performing the complete workflow from acquisition to data processing and analysis.

MAPPEM   MAPPEM-3D

Our advantages

- ✓ Pyrotechnic detection
- ✓ Detecting ferrous and non-ferrous objects
- ✓ High discrimination
- ✓ From very shallow water depths up to 100 m
- ✓ Easy deployment (small survey vessel, two operators)
- ✓ Real time supervision and quality check using in-house acquisition software
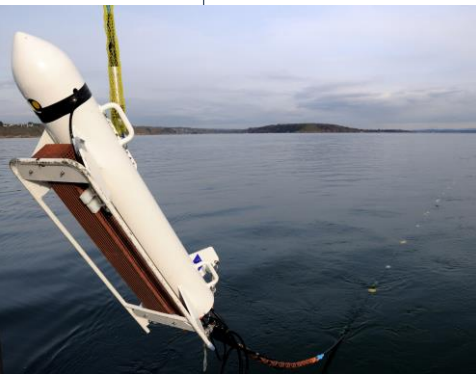- ✓ Cost-effective

Applications

DREDGING

MARINE RENEWABLE ENERGIES

PIPELINES & CABLES

COASTAL AND PORT DEVELOPMENTS

OIL & GAS

UXO

DEFENSE

Examples

- Detecting metallic debris in harbours
- Locating buried pipelines and cables
- Searching for wrecks (marine archeology)
- Locating ferrous and non-ferrous UXOs (LMB mines...)
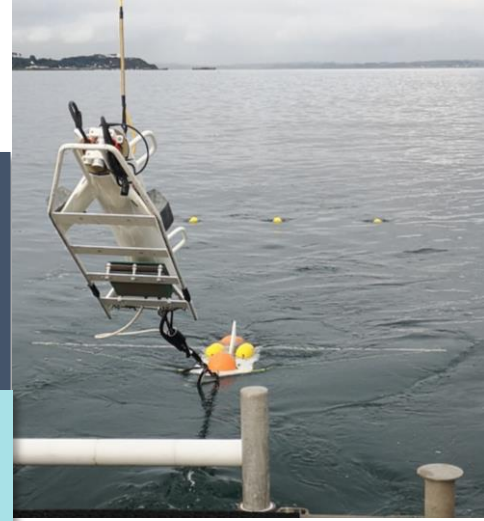
Our technologies

MAPPEM
System towed behind a vessel a few meters above the seafloor. Cable equipped with 20 receiving electrodes.
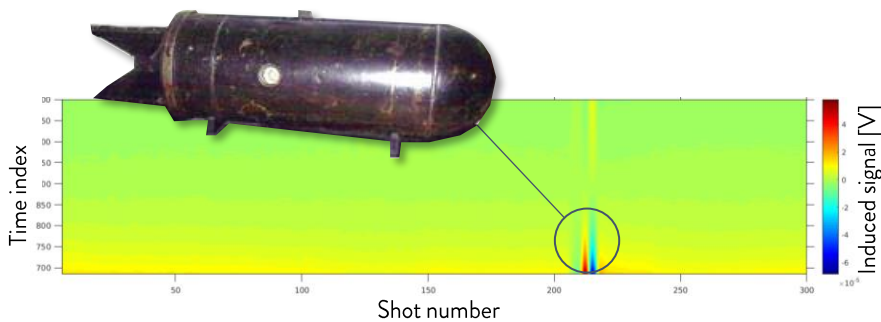
MAPPEM-3D
System towed behind a vessel a few meters above the seafloor. 5 m-swath. 3 cables equipped with 6 receiving électrodes each.

- Navigation and position sensors
- Main fish and secondary fish form the injection dipole (injected current ~60A)
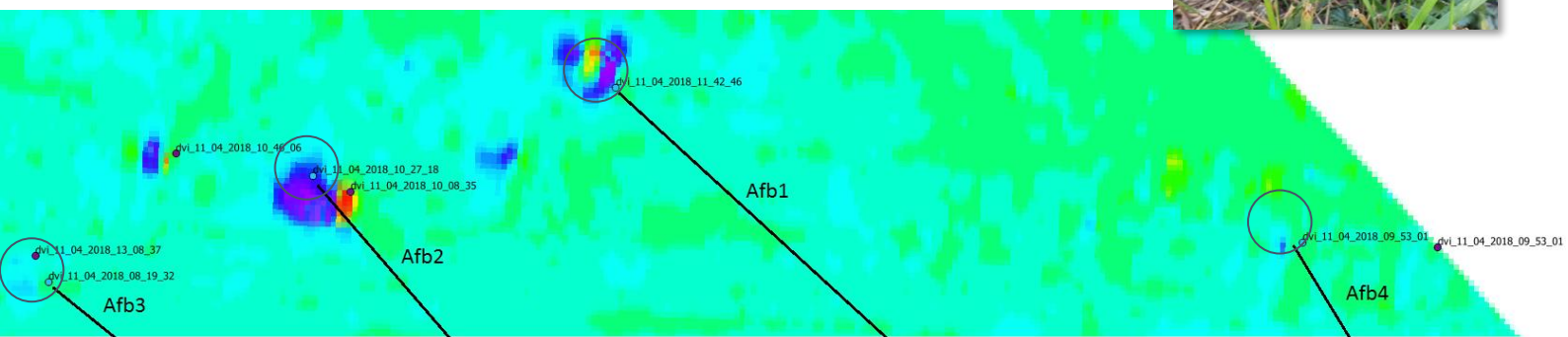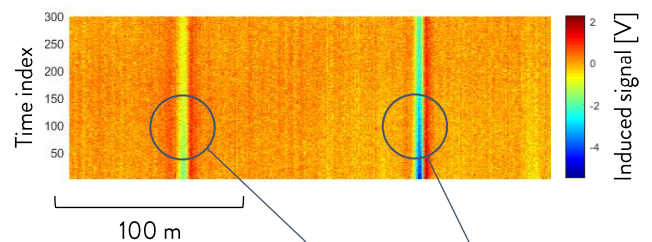- Specific data processing « BODIES » to highlight objects

Data examples

Non-ferrous UXO: LMB mine

Time index / Shot number / Induced signal [V]

Telegraphic cables

Time index / Induced signal [V] / 100 m

Afb1

Afb2

Afb3

Afb4

Let's get in touch!

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MAPPEM
G E O P H Y S I C S
Marine Electromagnetic Investigation