

A proven, viable and versatile solution
for rivers and maritime pollution

APPLICATIONS

www.thomsea.com

SOME FACTS

The various sources of pollution in a port for instance are:

Unauthorized deposit of waste: Pots of painting, adhesive, antifouling, cans of oil, solvents, rags, paperboards, papers soiled...;

Floating waste: Plastic bottles, paperboards, papers, cans, bags plastic...;

Station of fuelling: Pollution by hydrocarbons...;

Water of carenage: Particles of painting, antifouling, solvents, oils, hydrocarbons...;

Surface waters: Heavy hydrocarbons, engine oils, metals...;

Domestic water: Toilets, washings, rinsings.



SOME FACTS

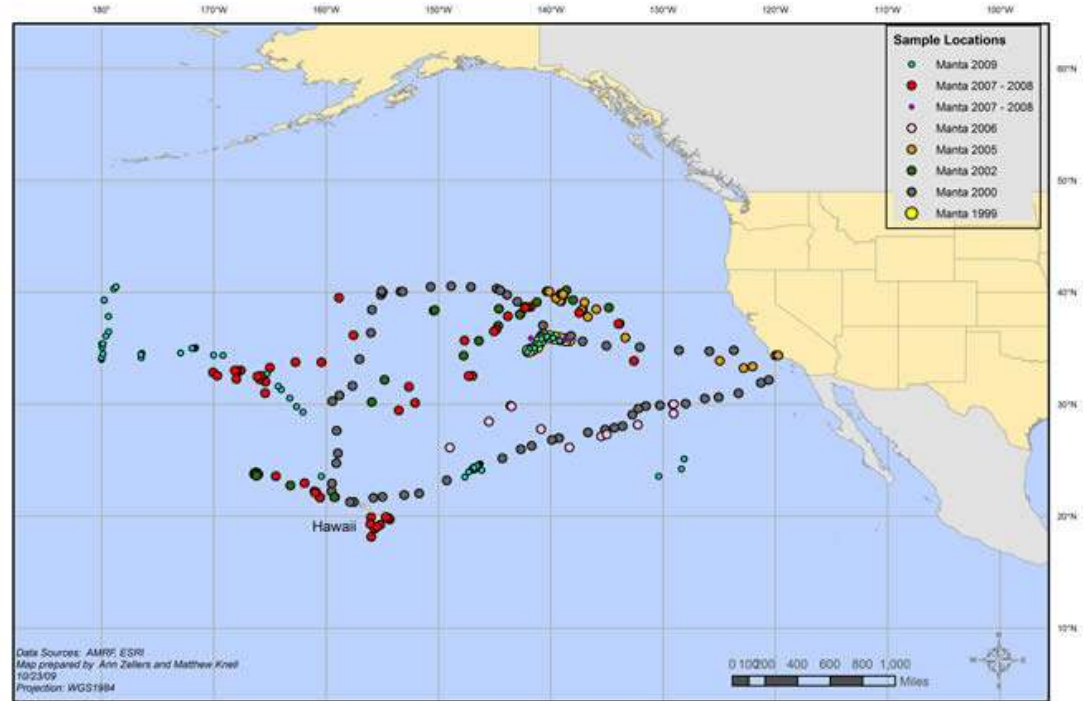
Approx. 80% of marine litter is land-based

In 2004, marine water samples contain 6 times more plastic than plankton, i.e. out of 7 kilo, 6 kilos of plastic vs. 1 kilo of plankton (source: [Algalita](#))

Cruise ships: 95.000 m³ of sewage from toilets and 5.420.000 m³ of sewage from sinks, galleys and showers are released into the oceans each day (source: [Oceana](#))

250.000 kg of waste are removed from the North Sea yearly (source: KIMO)
1 kg out of every 5 kg wasted plastic ends up in oceans

Samples of strandline material contain more than 10% plastic per weight. The fragments will increase with production. (source: KIMO)



Plastic Marine Debris Surface Sample Locations
North Pacific Gyre 1999 - 2009



THOMSEA TRAWL NET:

The Idealistic Versatile System to collect any floating maritime debris from 1,2 mm thickness

Design to filtrate and collect any oil spill from 170.000 cP, the range of THOMSEA Trawl Net is also use to collect any floating maritime debris from 1,2 mm thickness.

As Static unit, the THOMSEA Trawl nets can protect rivers, inlets and stop any rejection of pollution into main Rivers and sea.



⇐ Static Thomsea 8Tons protecting inlet.

Example of macro waste into Seine river in Paris. ⇐
Does not look nice, isn't it?



THOMSEA TRAWL NET: The Idealistic Versatile System collecting marine litter.

Radidly deployed by two men in less than 15 mn, the THOMSEA Trawl Nets can be trawled by simple boat as Zodiac with 40 Hp engine.

No modification are necessary on the Trawl to collect marine litter.



THOMSEA TRAWL NET: The Idealistic Versatile System collecting marine litter.



Example of marine litter pollution



Often trash can be found up to 10 m below the surface.

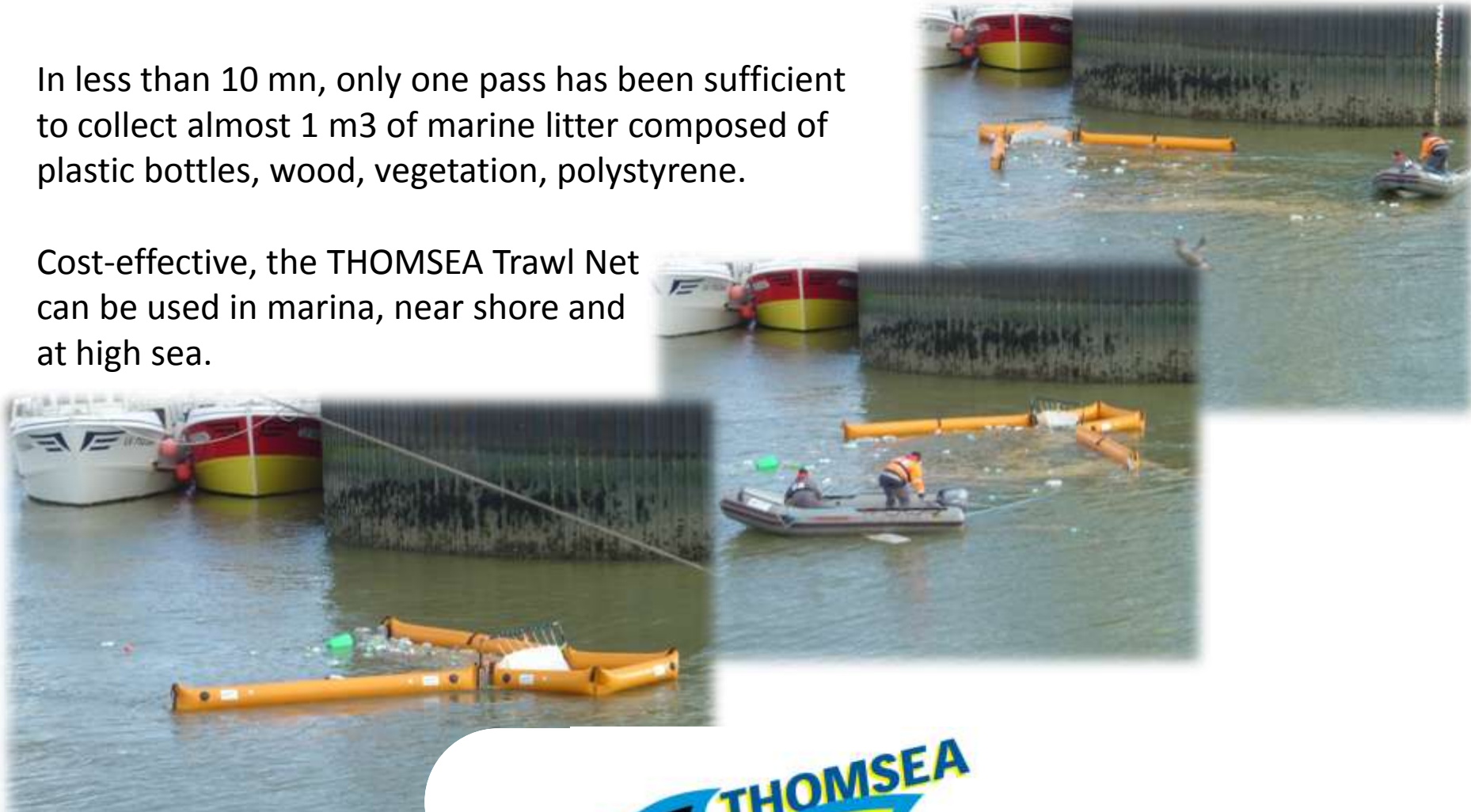
Thank to its two confinement booms and unique and special Net, the Thomsea Trawl Net is ideal to collect rapidly macro waste from the surface of water and below the water (-70 cm).



THOMSEA TRAWL NET: The Idealistic Versatile System collecting marine litter.

In less than 10 mn, only one pass has been sufficient to collect almost 1 m³ of marine litter composed of plastic bottles, wood, vegetation, polystyrene.

Cost-effective, the THOMSEA Trawl Net can be used in marina, near shore and at high sea.



THOMSEA TRAWL NET: The Idealistic Versatile System collecting Marine Litter.



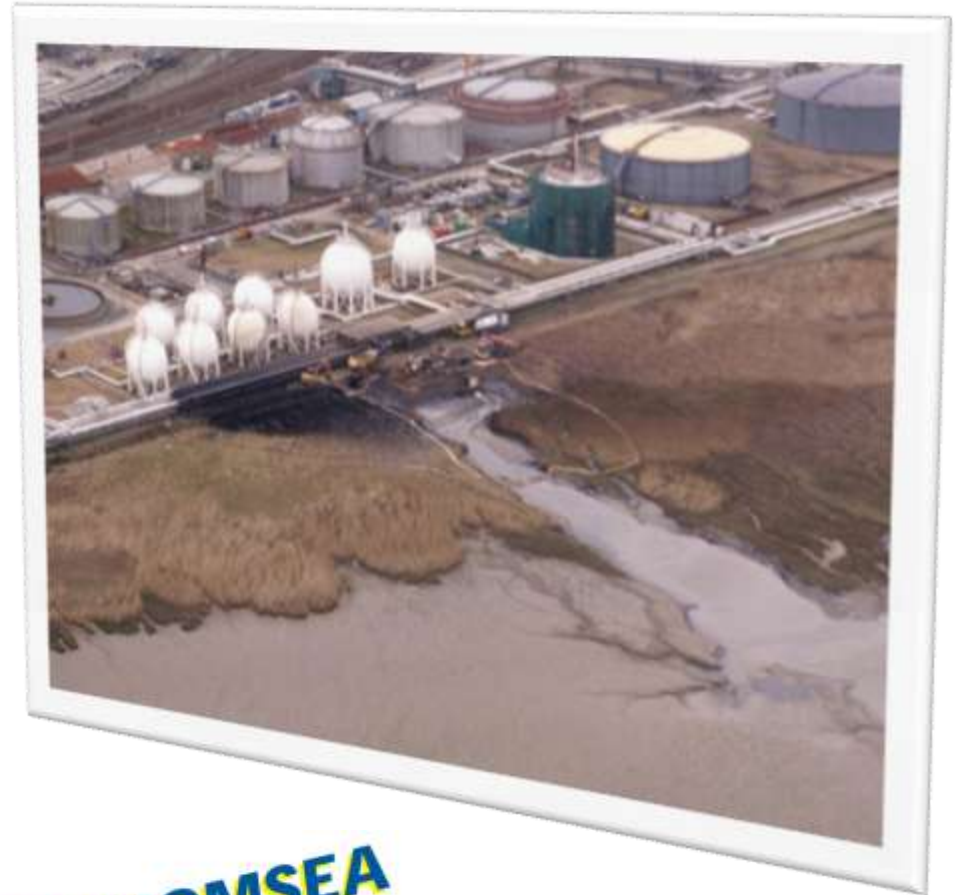
Available with two capacity of collection, 2 tonnes and 8 tonnes, the THOMSEA Trawl Nets deployed by local fishermen can become an very useful tool to prevent any pollution, preserving the environment as the local economy (fishery – tourism). The Net can be used tens of time, limiting the investment and increasing the profitability of the THOMSEA system.



DYNAMIC & STATIC UNITS THOMSEA TRAWL NETS: COLLECTION OF MARITIME DEBRIS

- ❖ Oil Spill: DONGE RAFFINERY – LOIRE ATLANTIQUE - France - 2008.

THOMSEA has been contracted to collect, Crude oil, contaminated alga and any floating maritime debris on the LOIRE River and near shore.



Collection of Floating maritime debris – ref. Donge oil spill 2008



Oil spill Donge Raffinery – 2008
Collection of crude oil, vegetation, plastic.



Collection of emulsifier – ref Donge oil spill 2008



2 Static THOMSEA 2T protecting River
collection of emulsifier- 2008

Two (2) THOMSEA 2T (Small model) -
side by side, making a barrage



DYNAMIC UNIT: COLLECTION OF MARITIME DEBRIS

❖ Project: NUCLEAR PLANT – FLAMANVILLE - France - 2009.

THOMSEA has been contracted to collect in less than two days, all blue green alga which may obstructed the bassin, feeding the pump for the cooling system.



DYNAMIC UNIT: COLLECTION OF MARITIME DEBRIS

❖ Project: NUCLEAR PLANT – FLAMANVILLE - France - 2009.



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DYNAMIC UNIT: COLLECTION OF MARITIME DEBRIS

- ❖ Project: Cleaning-up operation after the winter storm XYNTHIA - 2010



Immediately after the damaging winter storm XYNTHIA, THOMSEA has been contracted by the County of Vendée (west coast of France) to clean the near shore. Tons of maritime debris have been quickly collected thanks to the THOMSEA Nets.



DYNAMIC UNIT: COLLECTION OF MARITIME DEBRIS

❖ Project: Cleaning-up operation after the winter storm XYNTHIA - 2010

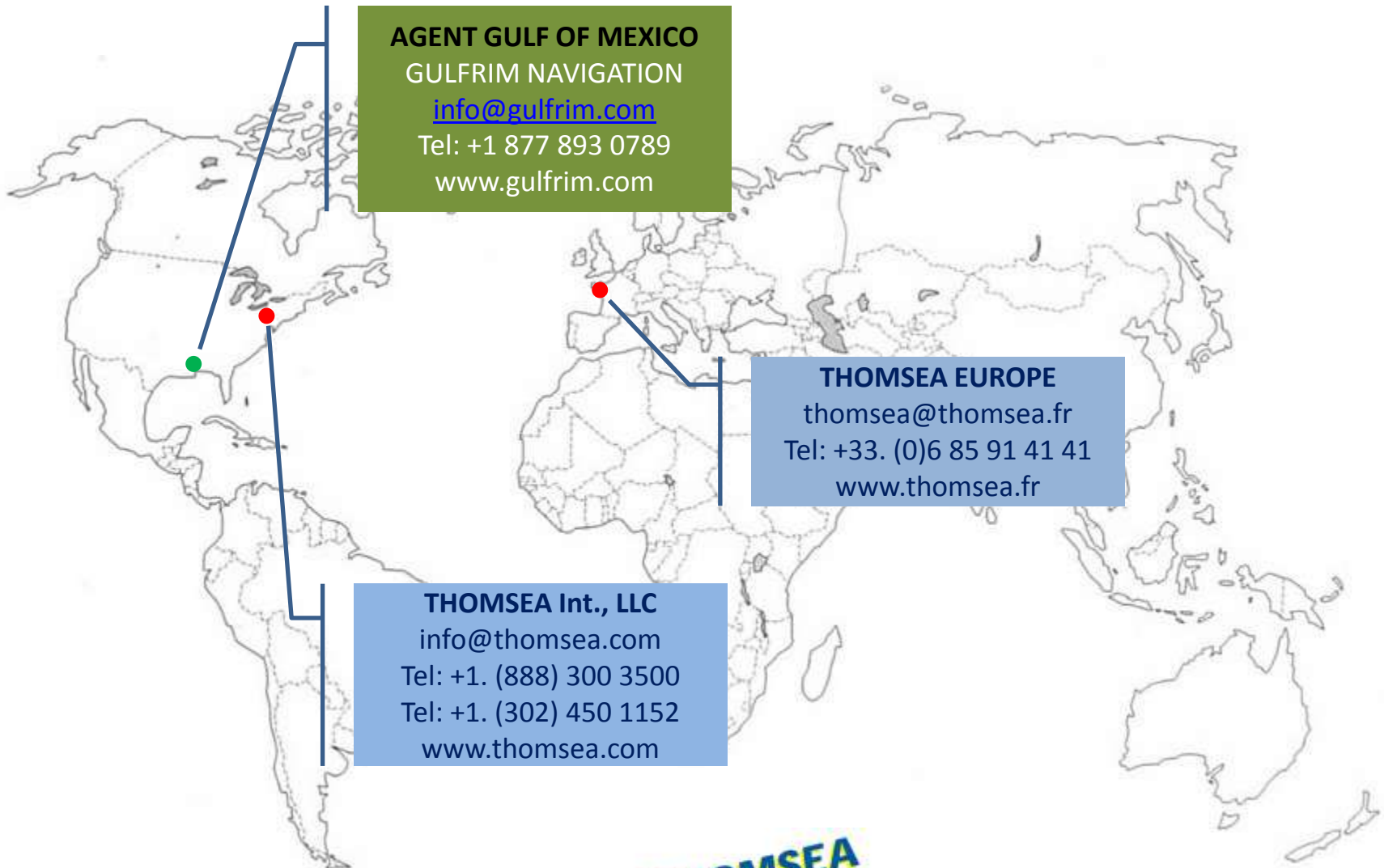


DYNAMIC UNIT: COLLECTION OF MARITIME DEBRIS

- ❖ Project: Cleaning-up operation after the winter storm XYNTHIA - 2010



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