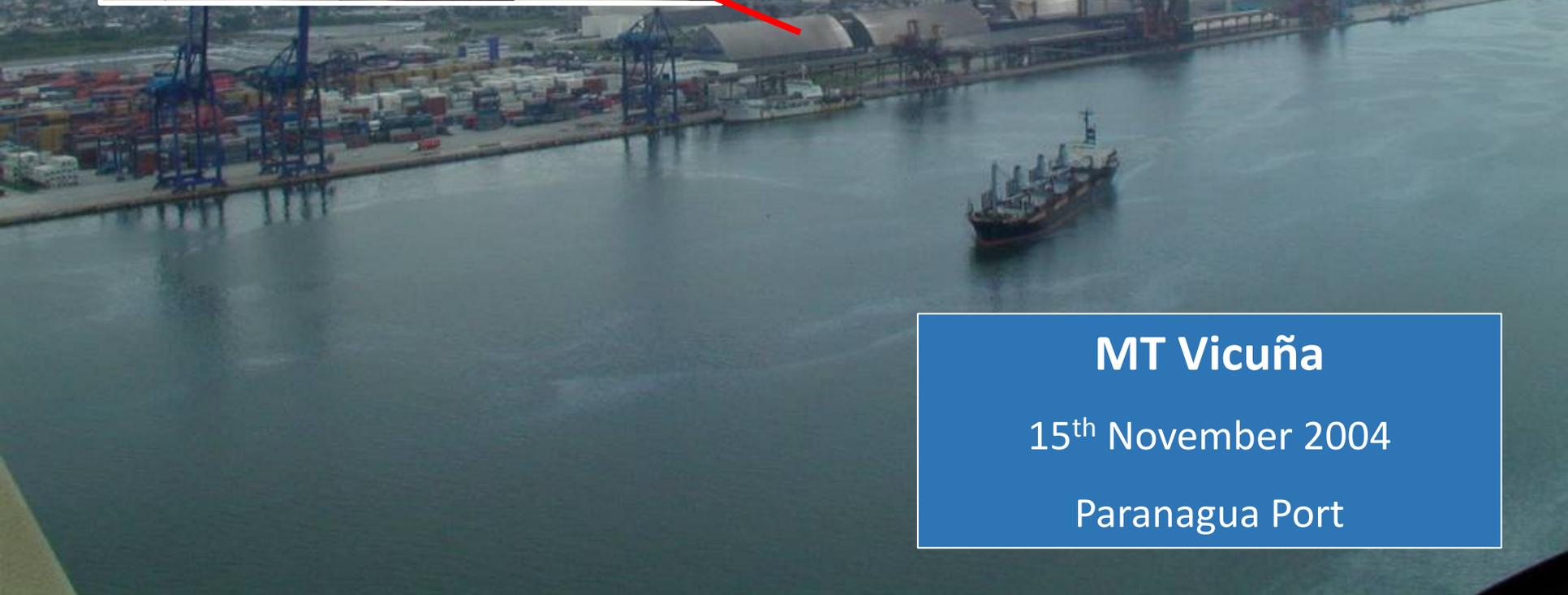
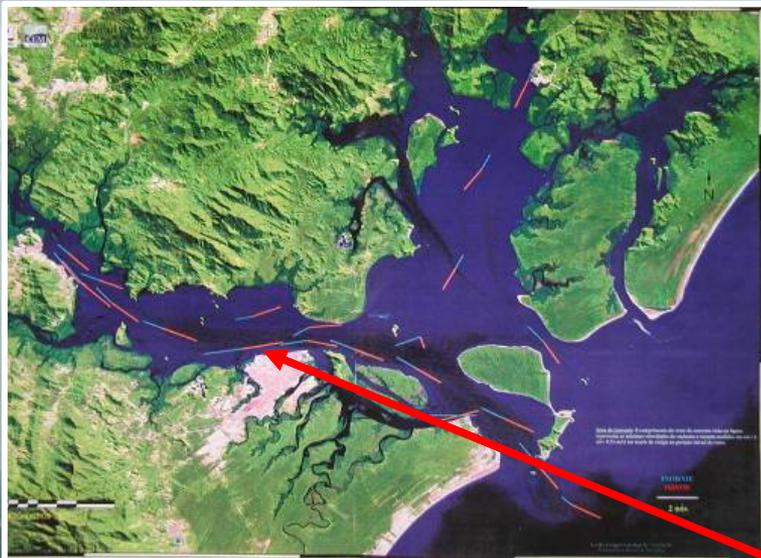




## OIL SPILLS IN BRAZIL: CASE HISTORIES

Dr Mark Whittington  
Technical Team Manager



**MT Vicuña**

15<sup>th</sup> November 2004

Paranaguá Port



Explosion whilst discharging methanol  
4,000 tonnes methanol burnt  
Spilled 400 tonnes of IFO180

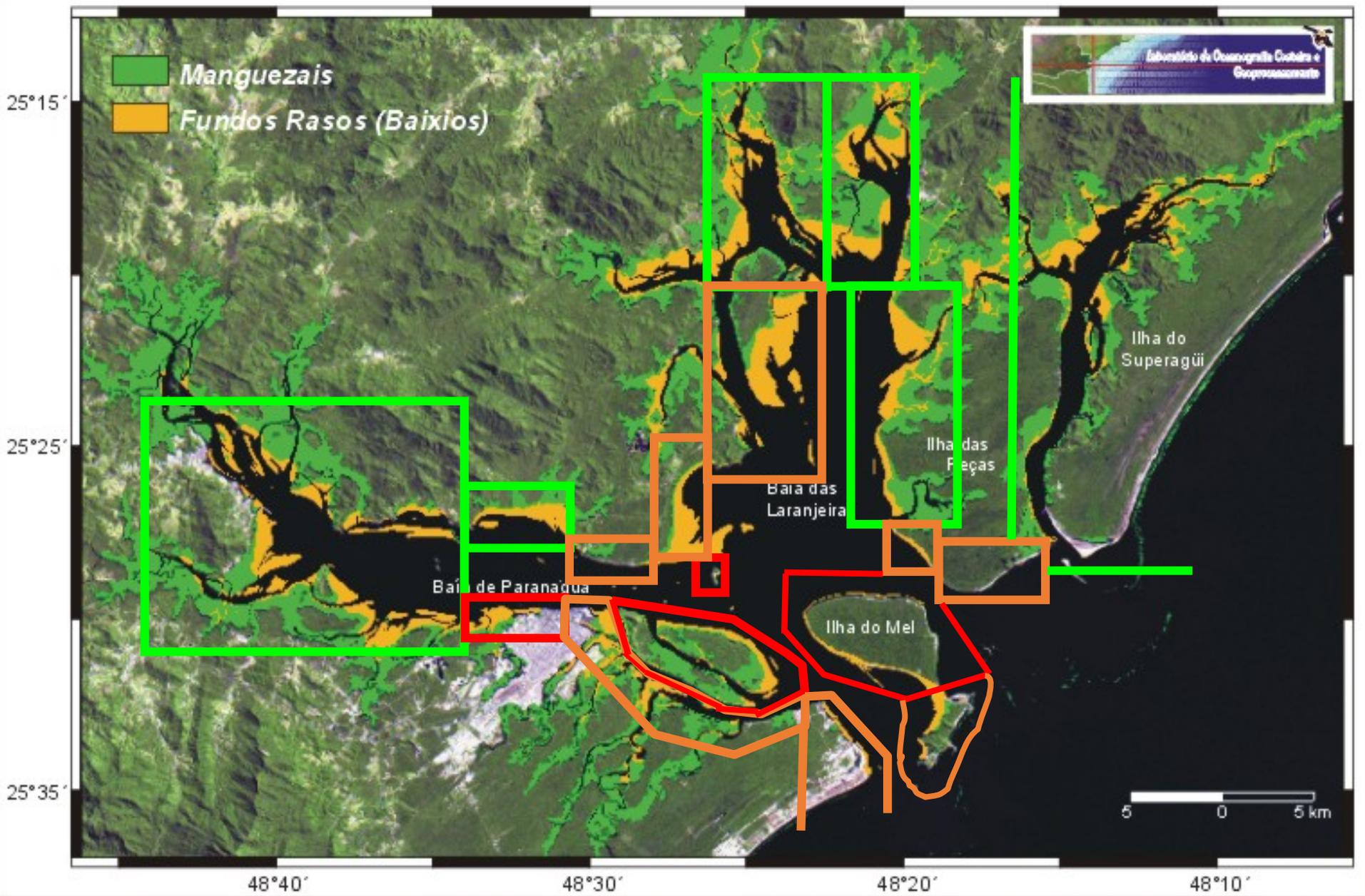




- Oil recovery in flowing water
- “Current Buster”
- Sourced via ITOPF office from Amazon







Baixios e Manguezais da Baía de Paranaguá





## SAGA MASCOT

September 2005, Guanabara Bay

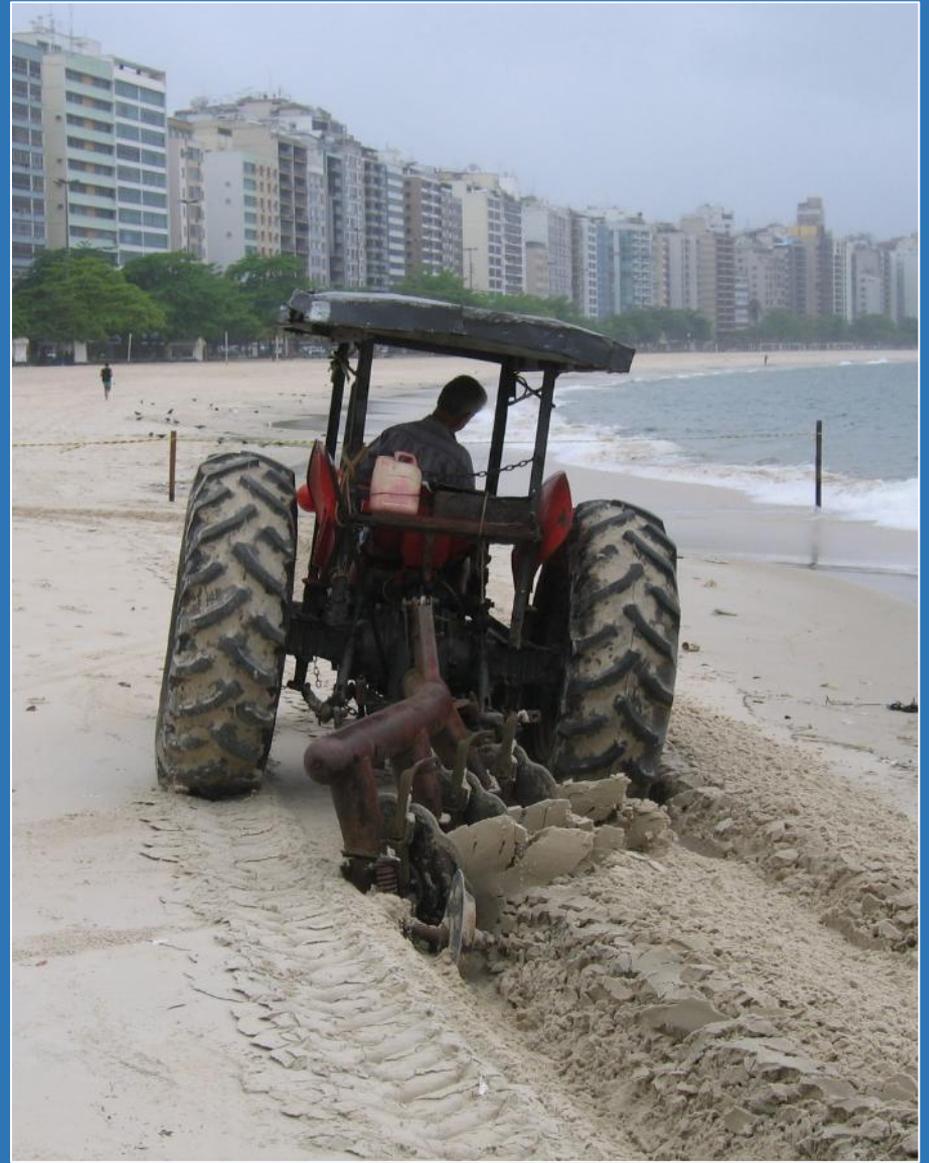


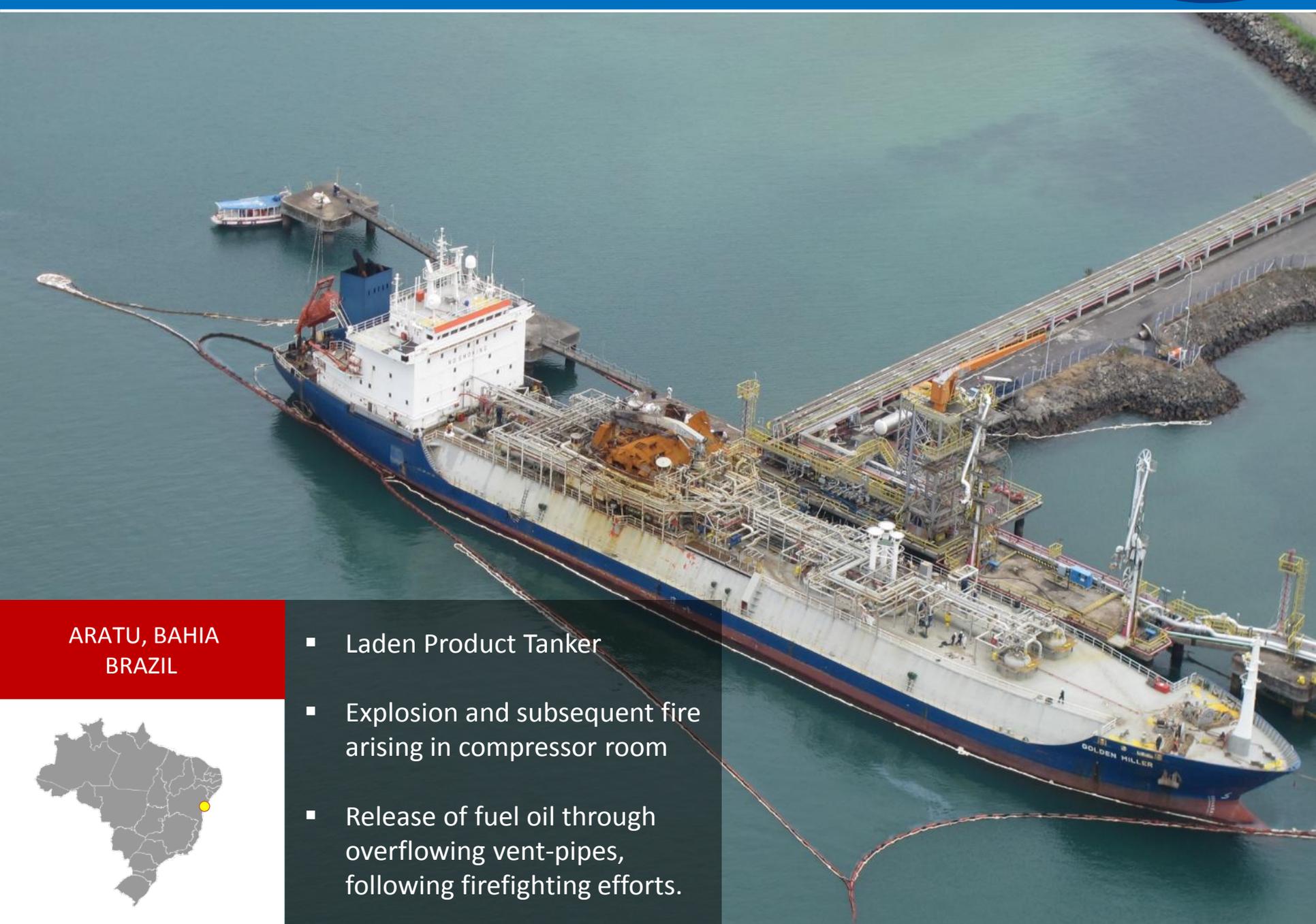
14MT of IFO380  
Leak stopped in ~30 minutes











ARATU, BAHIA  
BRAZIL

- Laden Product Tanker
- Explosion and subsequent fire arising in compressor room
- Release of fuel oil through overflowing vent-pipes, following firefighting efforts.



# EXTENT OF OILING



Site 1  
GOLDEN MILLER

Site 2

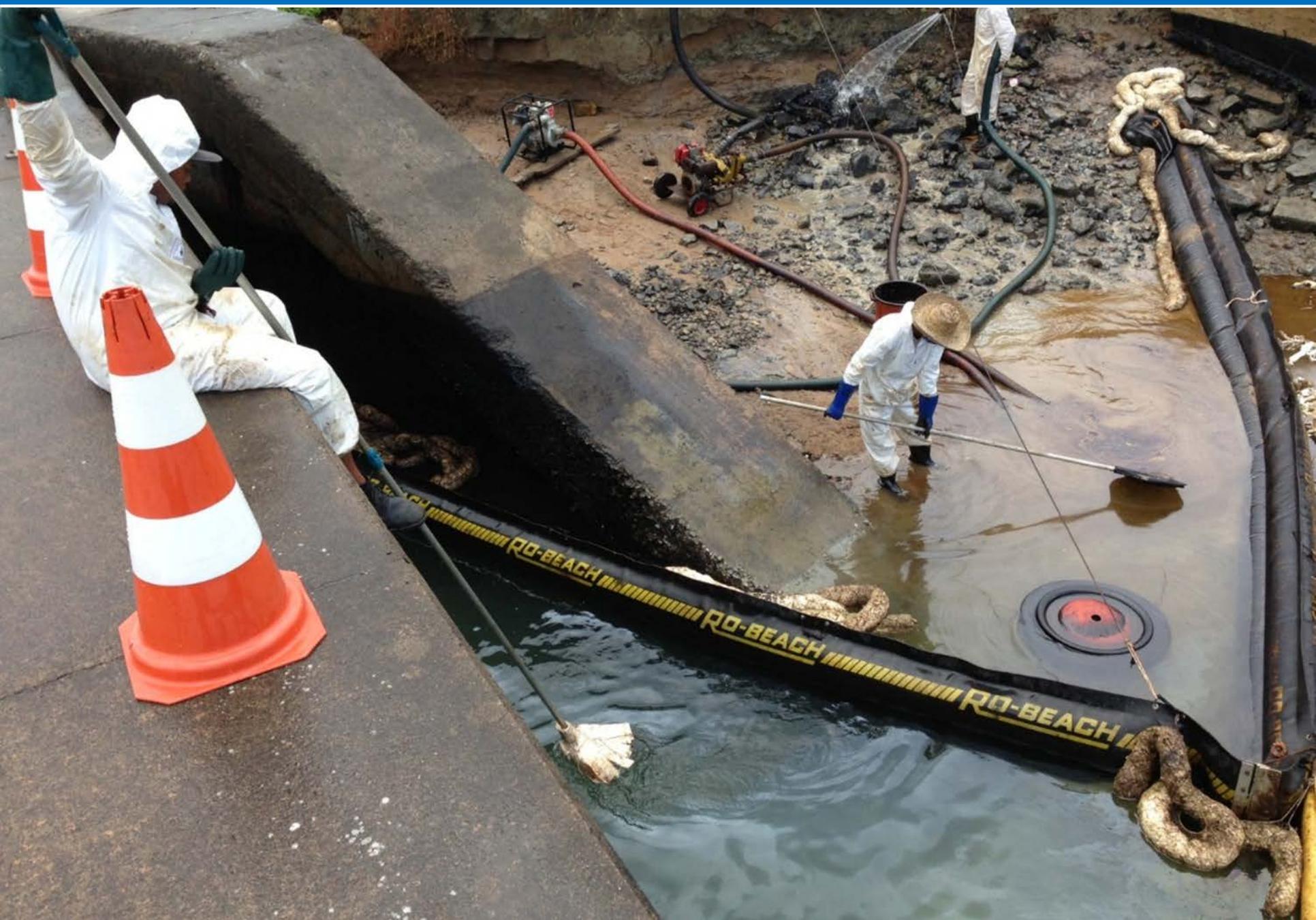
Site 3

Site 4

1200 m

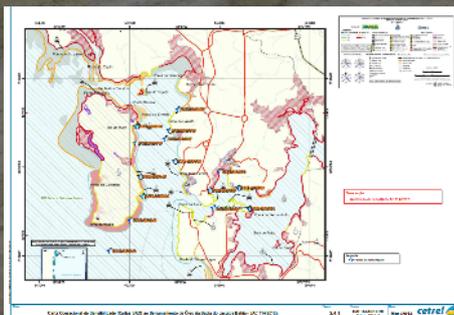








- Comprehensive monitoring plan designed to track environmental recovery.
- Water, sediment and seafood samples tested for hydrocarbons.
- Results indicated rapid reduction in hydrocarbon concentrations relevant to GOLDEN MILLER spill.



Obrigado

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