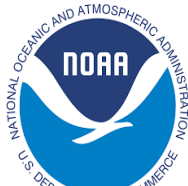# 21ᵗʰ Meeting of the Meso American – Caribbean Sea Hydrographic Commission
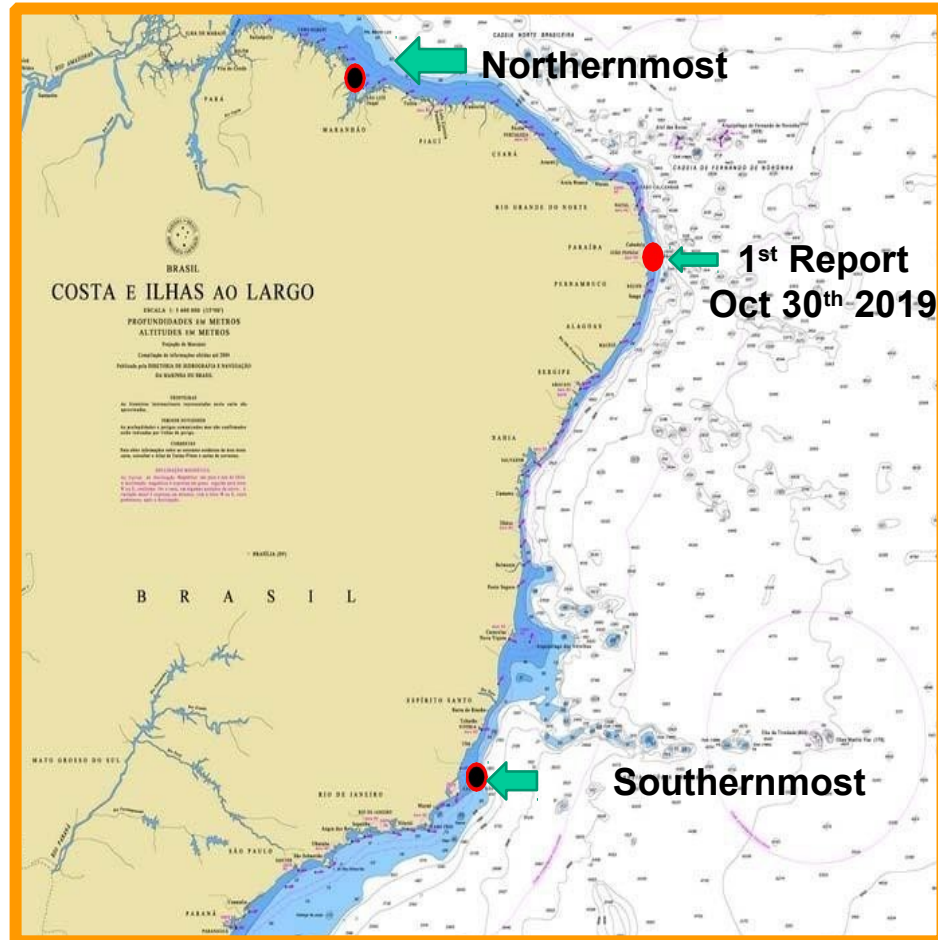
Oil Spill Response in Brazilian Waters: Lessons Learned

# Organizations that supported the investigation with resources and information

Oil Spill Along the Brazilian Coastline

- **Northernmost incident:** State of Maranhão – Oct 5th

- **Southernmost incident:** State of Rio de Janeiro – Dec 1st

- **Coastline affected:**
  3,600 Km
  130 Cities
  11 States

- **5,340 tons of oil residues**
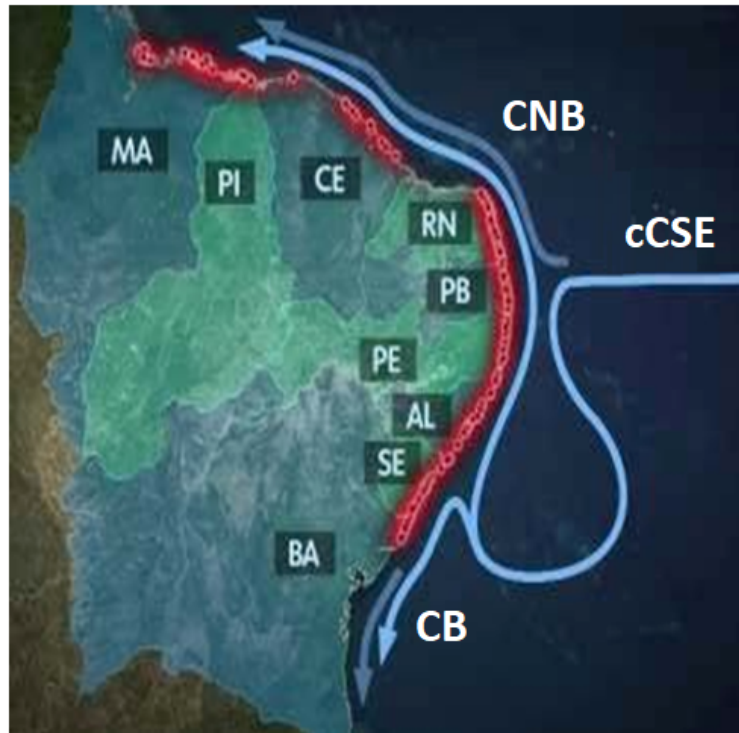
- **Unprecedented incident in length and duration**

Lessons Learned

- Director of Hydrography and Navigation was the Head of the Investigation

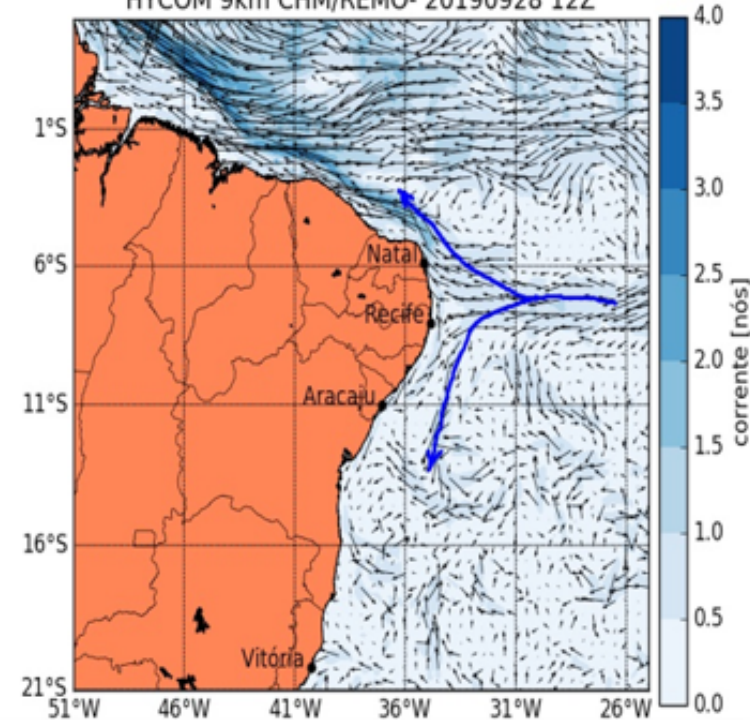- Knowledge of Marine Environment

- Multidisciplinary Analysis

Dispersion of Oil

Maritime Traffic Analysis

Mathematical Modeling

Oil Geochemistry Analysis
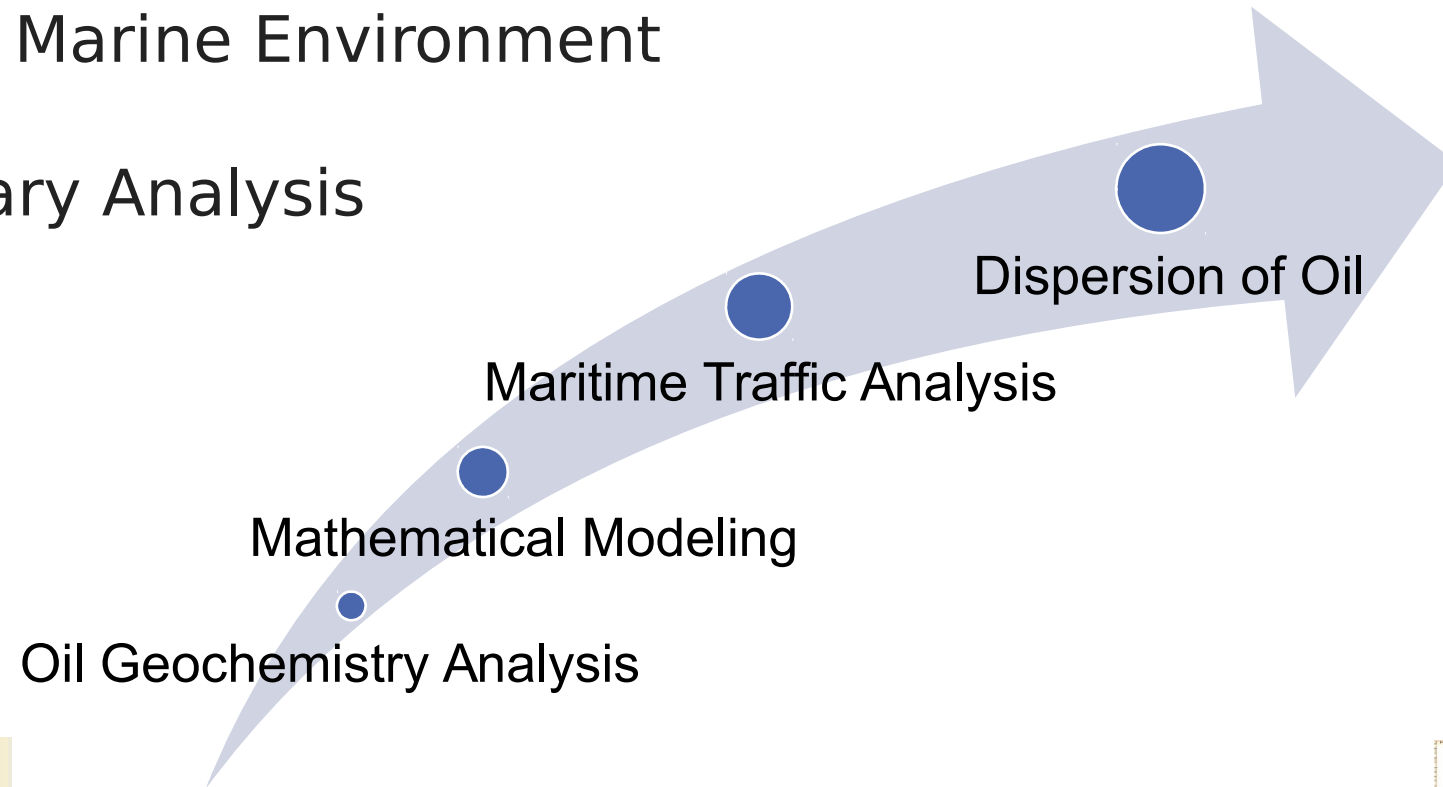
Lessons Learned

Knowledge of Marine Environment

Lessons Learned

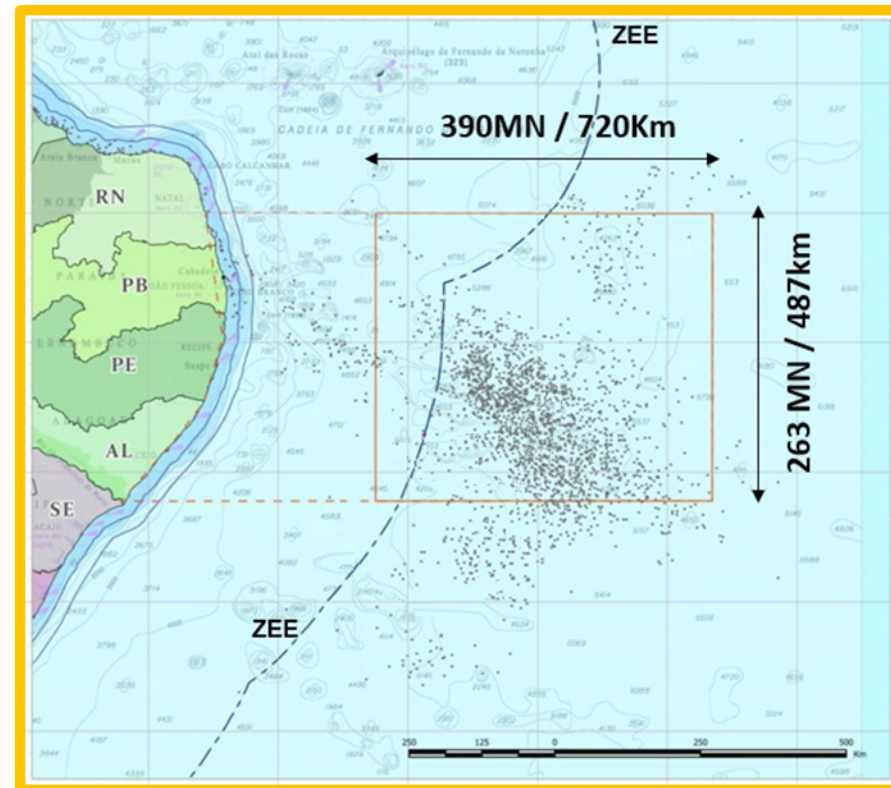## Weathering Processes of Oil at Sea and the Oil Geochemistry Analysis
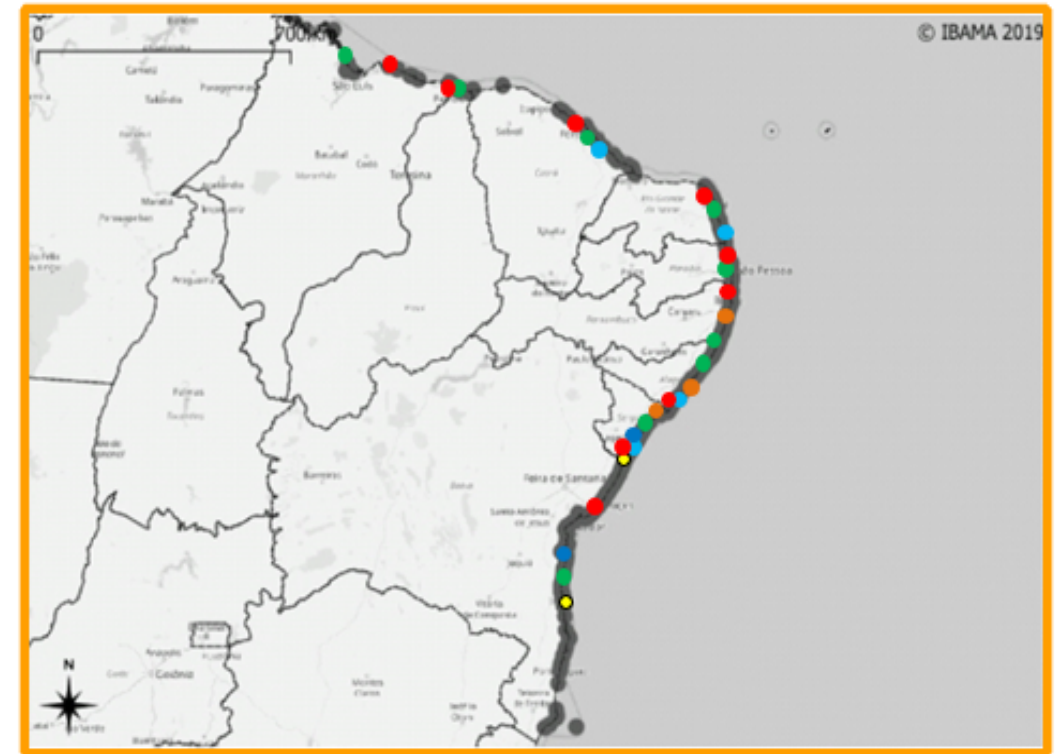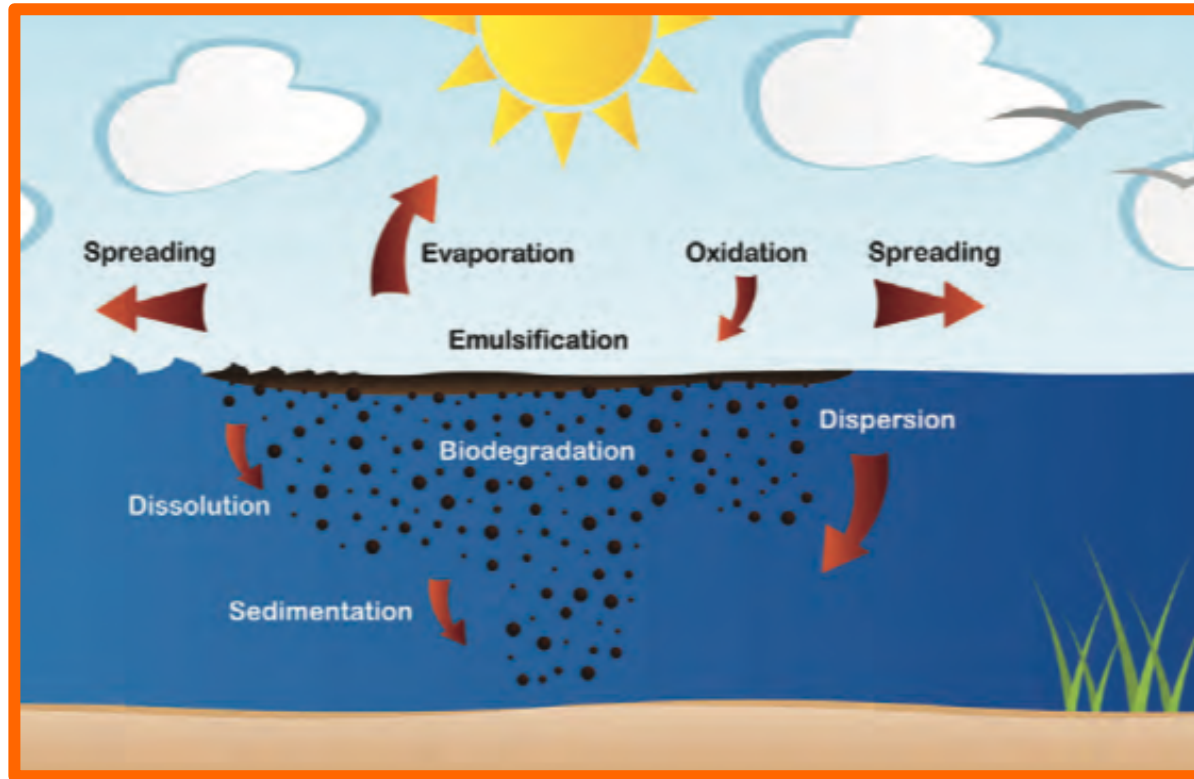
Lessons Learned
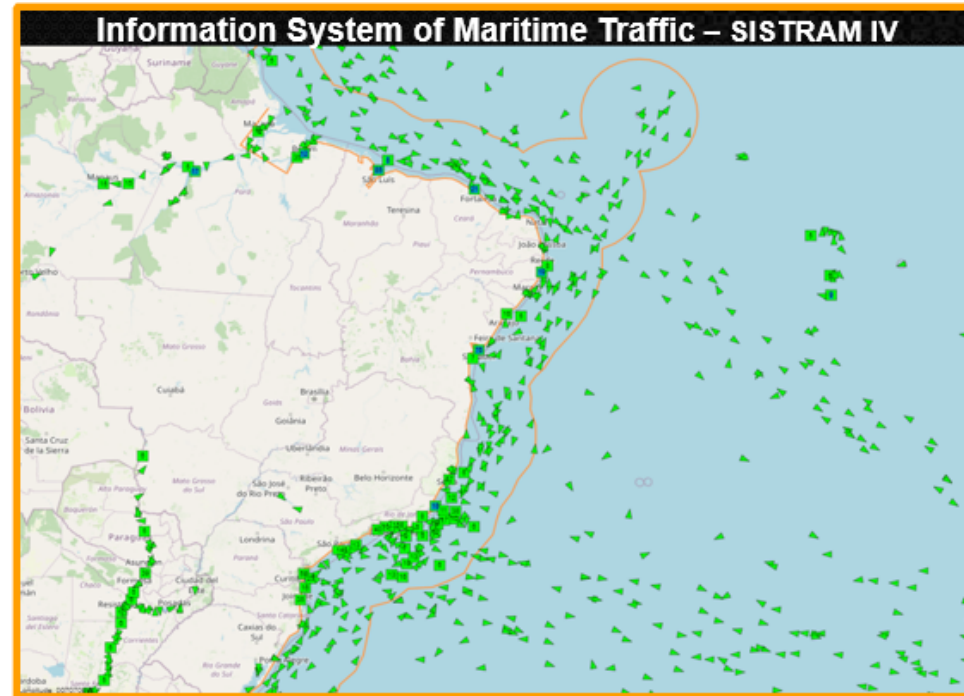## Dissipation of the oil at sea

Lessons Learned

Mathematical Modeling
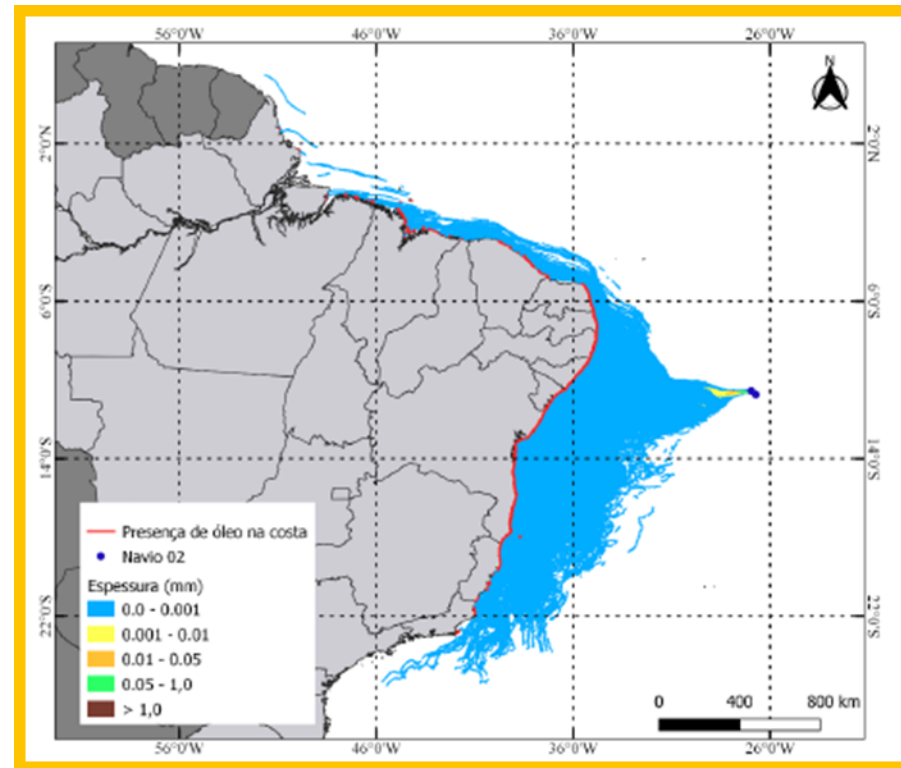
Lessons Learned

Maritime Traffic Analysis

Areas of Interest from 1st July to 30th August, 2019:
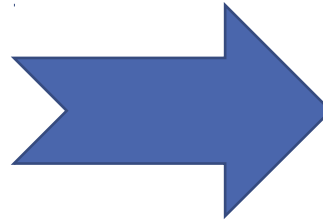1,060 vessels (Crude Oil Tankers)

Lessons Learned

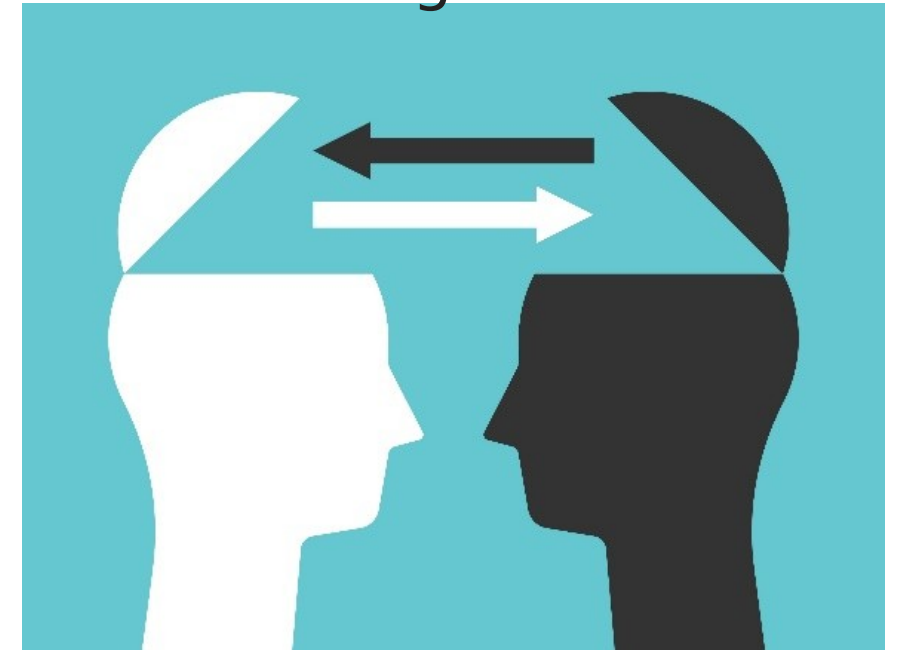## Dispersion of Oil (software OSCAR)

Lessons Learned

Encouragement for exchange with partners
(PETROBRAS / INPE / IBAMA / Academia)

Knowledge
Management

21ᵗʰ Meeting of the Meso American – Caribbean Sea Hydrographic Commission

Oil Spill Response in Brazilian Waters: Lessons Learned