



Copernicus support – Portuguese Navy

PT Navy, CDR Miguel Bessa Pacheco

14 May 2019

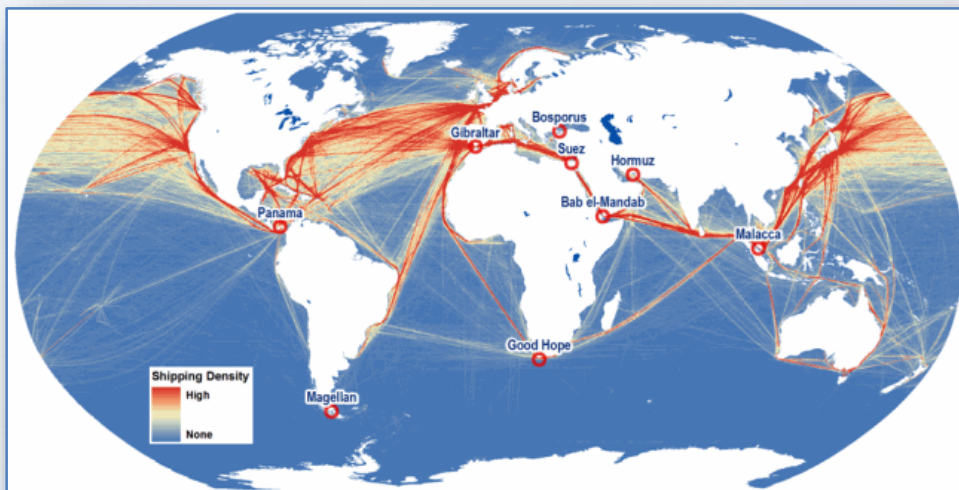
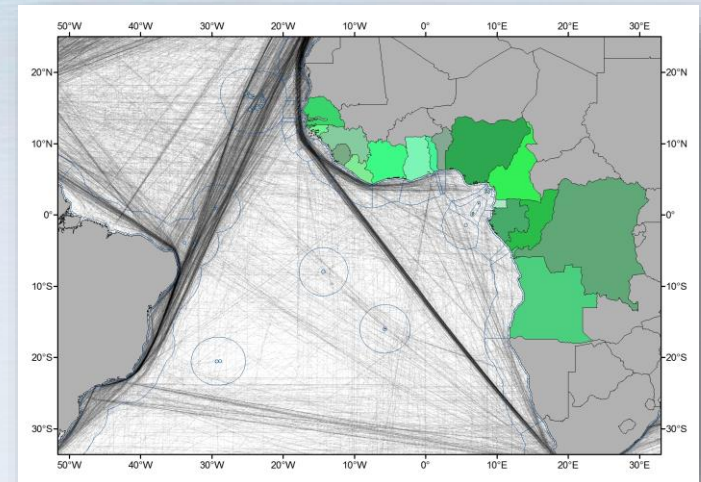


- Maritime security - Gulf of Guinea
- Safety of Navigation - Port Visits
- Emergency support - Mozambique cyclone IDAI
- National Maritime Law Enforcement

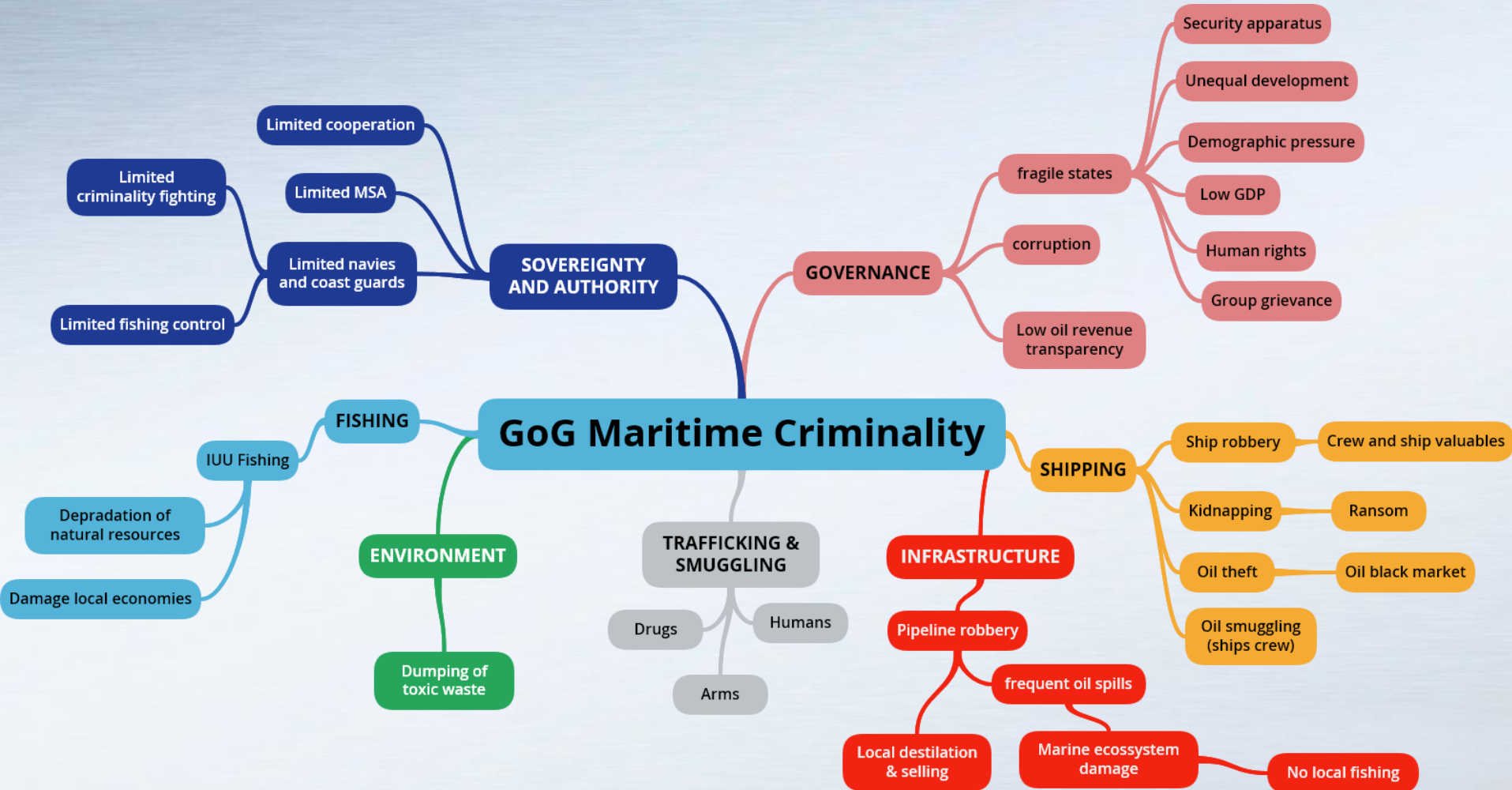


GULF of GUINEA

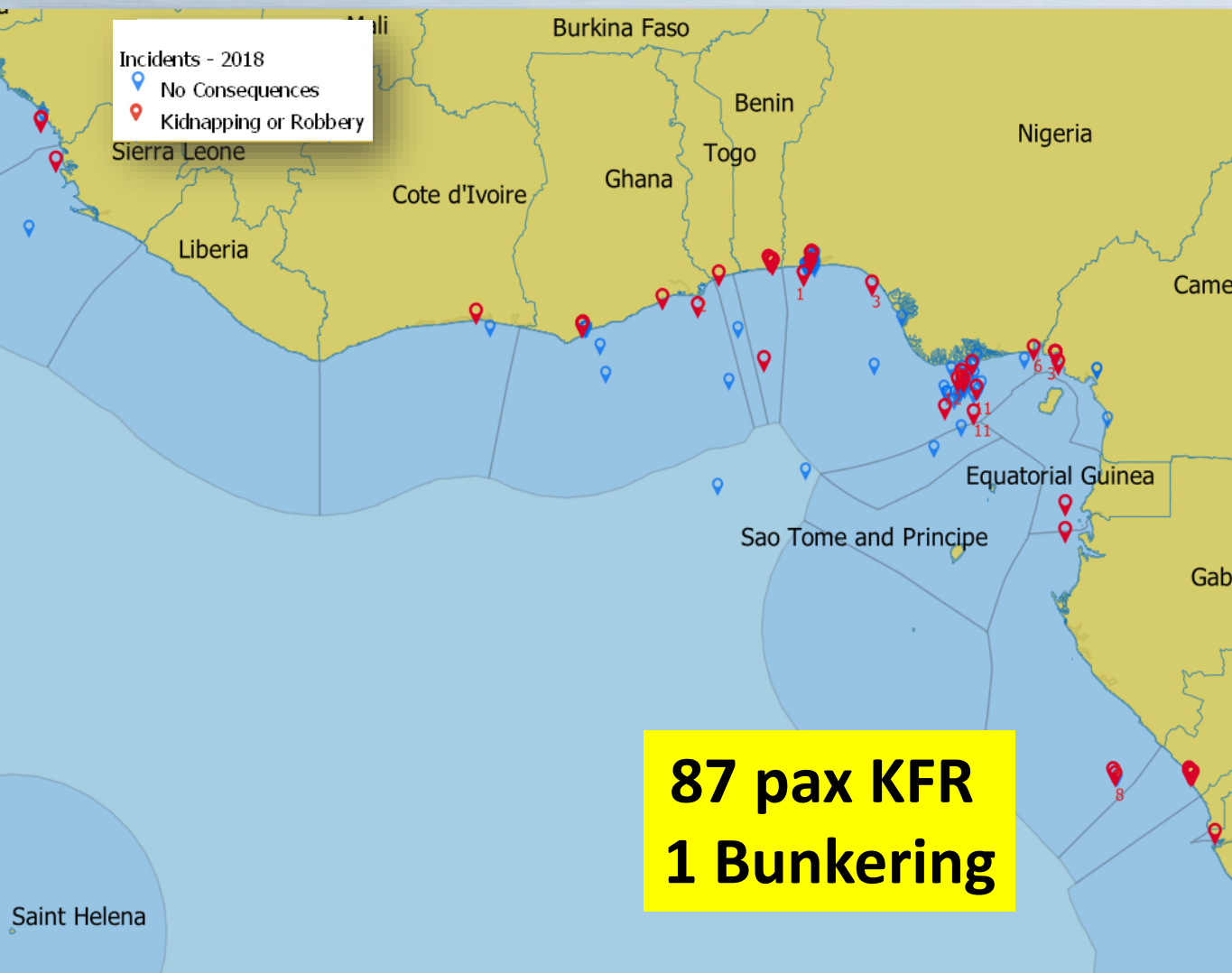
- Natural resources
 - Minerals
 - Oil (4.6%) & Gas (1,3%)
 - Natural
 - Fish
- No maritime chokepoints
- 5 CPLP countries
 - Angola, STP, Eq Guinea, Cabo Verde, Guiné-Bissau



GOG MIND MAP - MARITIME CRIMINALITY

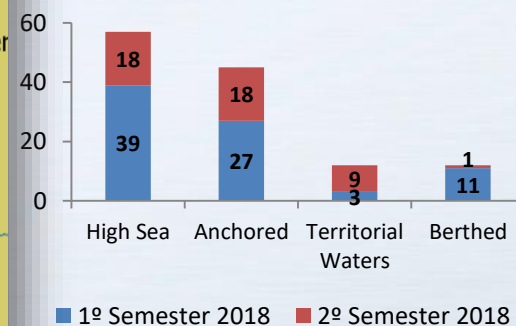


INCIDENTS – 2018



126 ATTACKS

- 57 High Sea (45%)
- 45 Anchored
- 12 Territorial Waters
- 12 Berthed

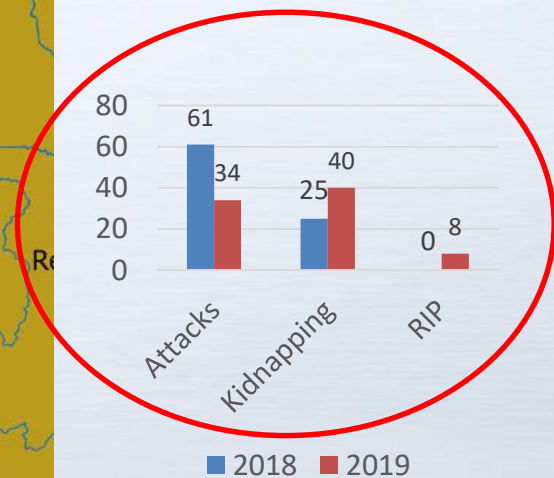
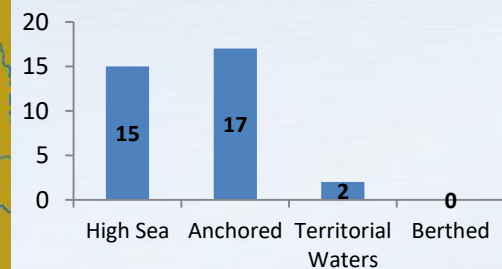


+37 attacks on waterways



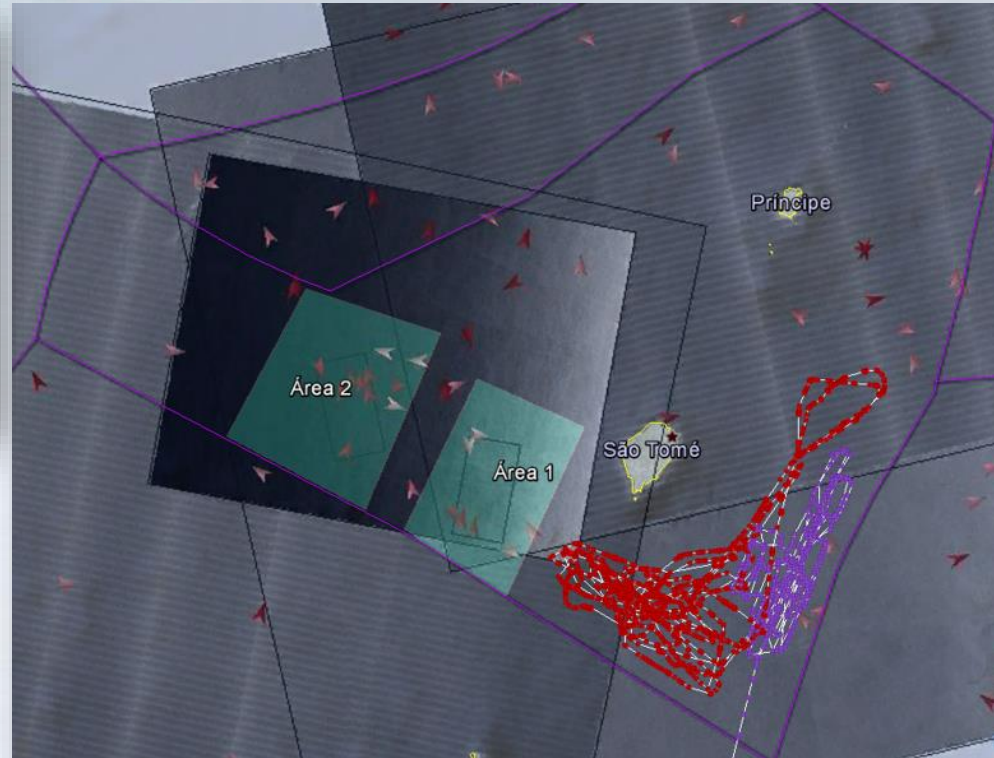
GULF OF GUINEA (GoG)

INCIDENTS – JAN_APR 2019





- Capacity building of STP Coast Guard
- 2 year project
- 1/3 crew already STP
- Ship transfer to STP



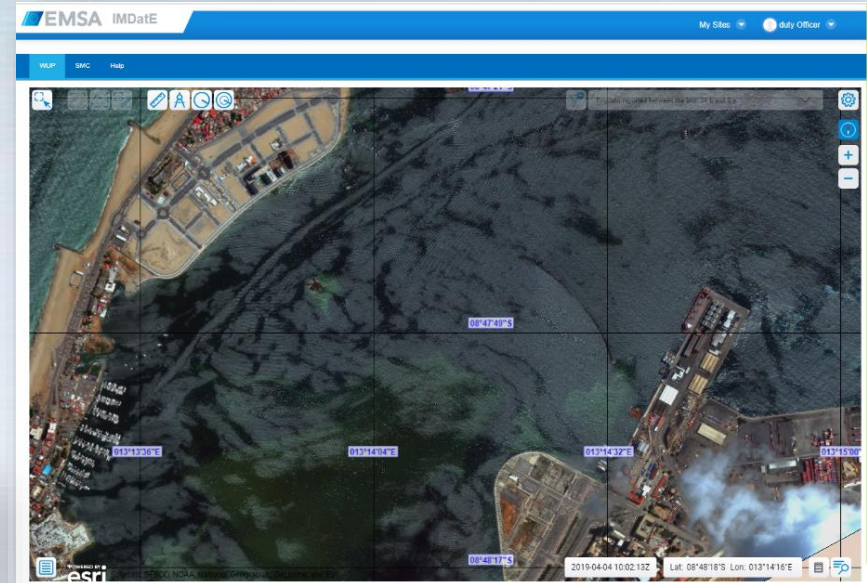
- Identification of EEZ fishing grounds
- Detection of ships not shinning AIS
- Protection of national (PRT) shipping





Port Visits

- Safety of Navigation
 - Low reliability on local port authorities
 - Clear and recent port info
 - Detection of hazards in ports





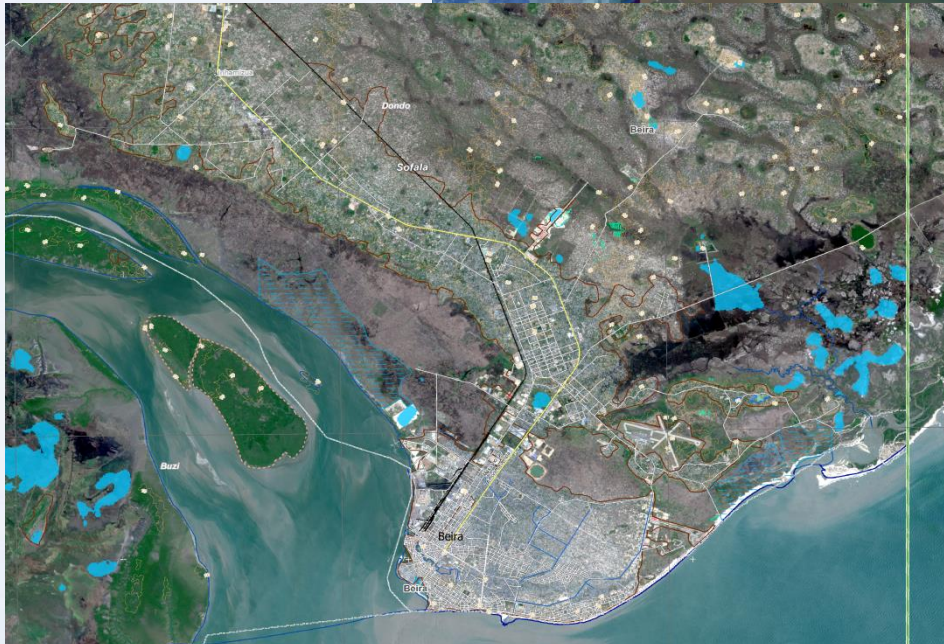
SUPPORT TO MOZAMBIQUE Tropical Cyclone IDAI

Emergency response to IDAI Cyclone

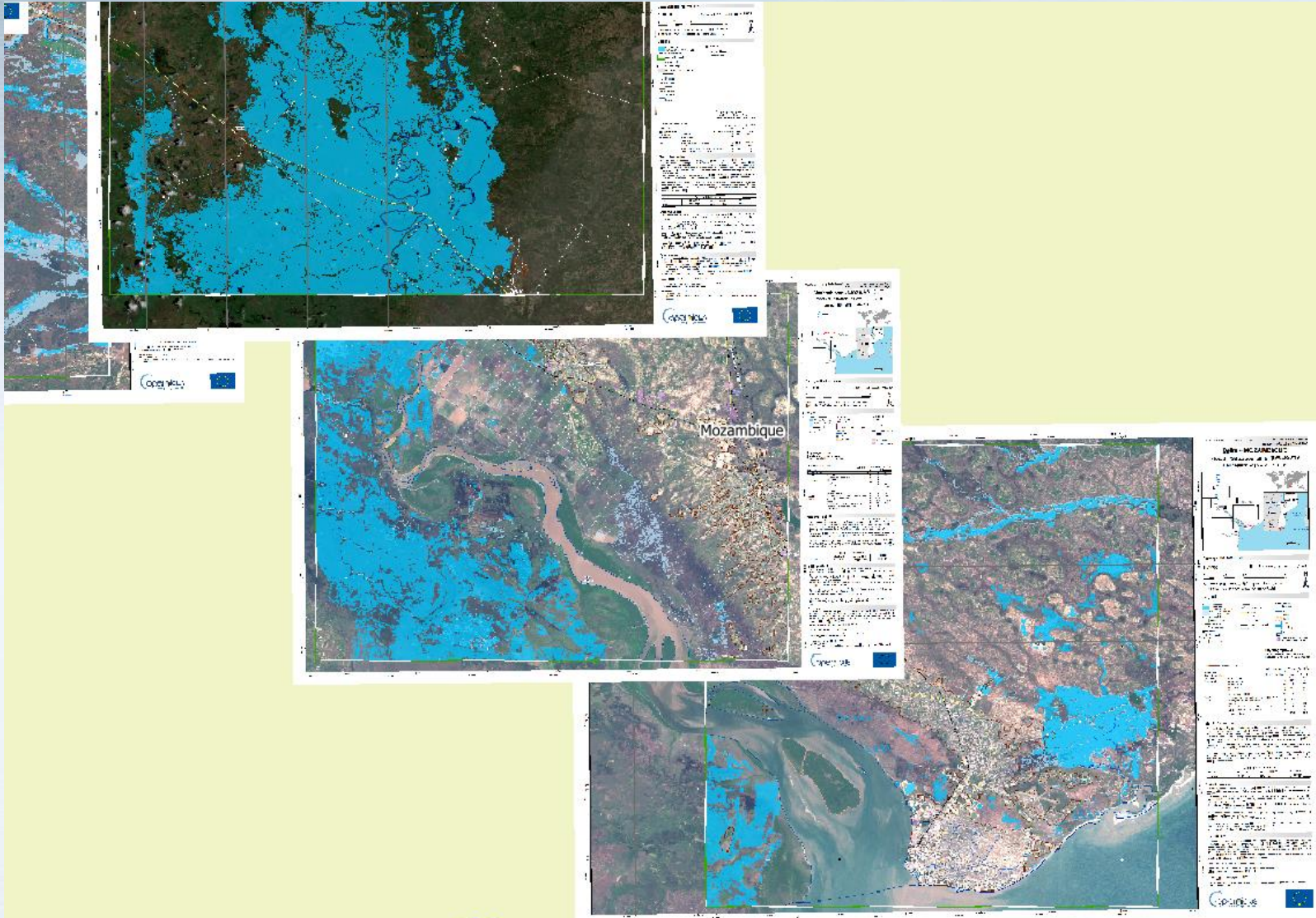


Emergency response to IDAI Cyclone

- Flooded areas
- Identification of damaged port facilities, mooring quays and other buildings



Copernicus Emergency Management Service - Mapping





LAW ENFORCEMENT

- Control of ships in the maritime traffic corridors
- Identification of potential contacts to target patrol
- Control of fishing vessels
- Control of research vessels in PRT EEZ



Triggering information for RPAS use

- Control of fishing vessels
- Detection of pollution at sea

EVENTS:

- En route to task in the corridor the Liaison officer requested imagery of a small vessel conducting feeding activity near the fishing pods. Nothing special to report.
- **MMSI: 538005373 GOLAR GLACIER** Liaison officer requested investigation of vessel with possible pollution. No suspect behaviour / No marine pollution visible. Nothing Special To Report.
- Liaison Officer requested investigation of a transshipment area Centre: 36.801667-8.427500 / No transshipment detected. **PEROLA DO GUADIANA (PT)** MMSI:263406570 in action of fishing Nothing Special To Report.



- EMSA/Copernicos services increase use
 - GoG maritime security
 - Fisheries control
 - Safety of navigation (port analysis)
 - Emergency response
- Advantages
 - Know some unknowns
 - Discover possible targets for control/visit
 - Support “wet” disaster relief
 - More eficiente law enforcement at sea