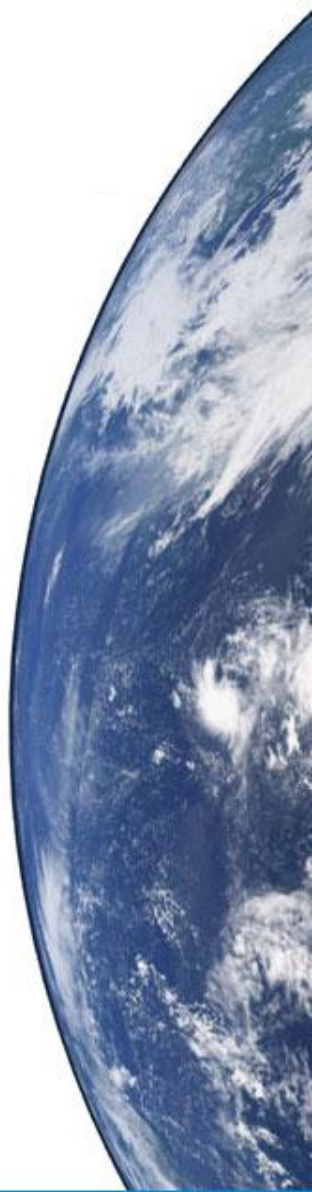




GRA Background Report **GOOS-AFRICA**

Prof AFFIAN Kouadio

*GOOS Regional Forum-11,
8-9 April 2024 Barcelona, Spain*



UNESCO
UNITED NATIONS
EDUCATIONAL
SCIENTIFIC
AND
CULTURAL
ORGANIZATION



IOC



WMO



UNEP



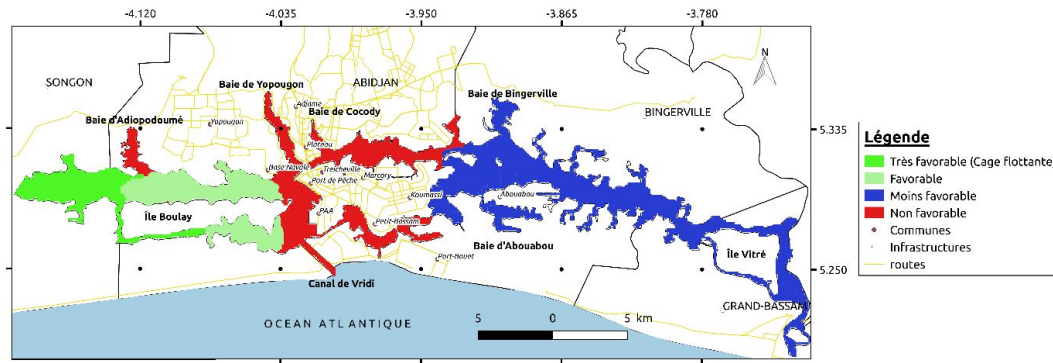
ICSU

Success Stories

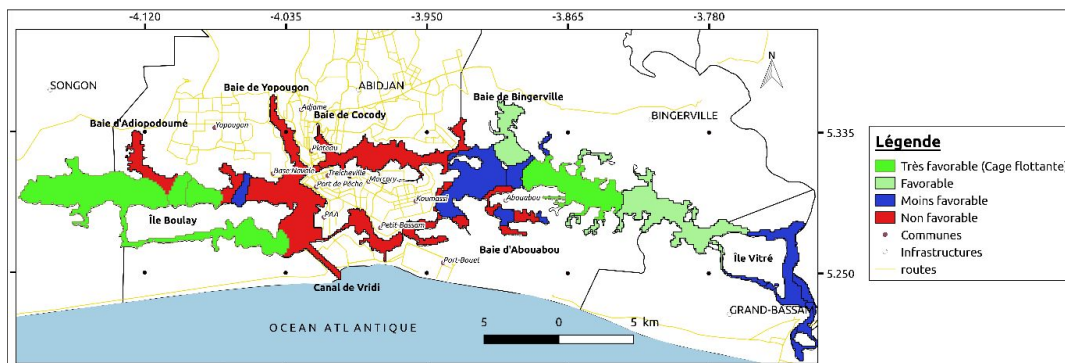
- Example of end-user delivery
- *Based on processing of:*
- *In-situ data collection*
- *Remote sensing data processing*
- *Coastal zone*
- *Marine environment*

Fish farming

Mapping of favorable zones for fish farming in the Ebrié Lagoon

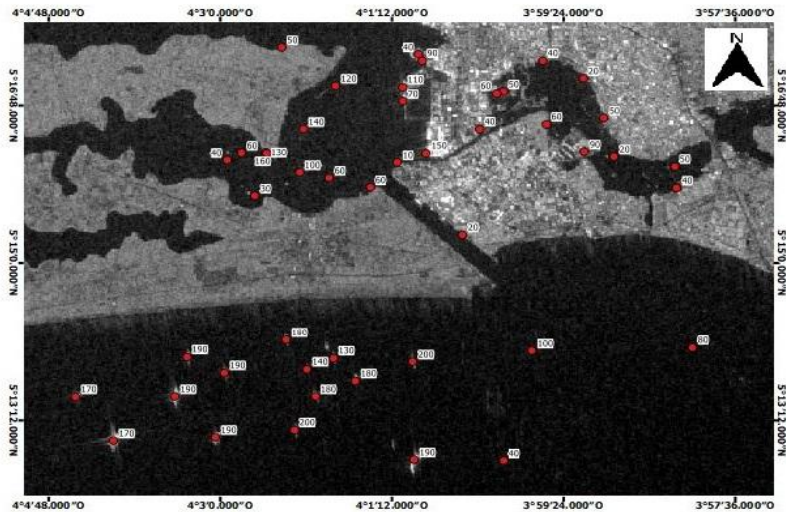


Rainy season



Dry season

Maritime surveillance

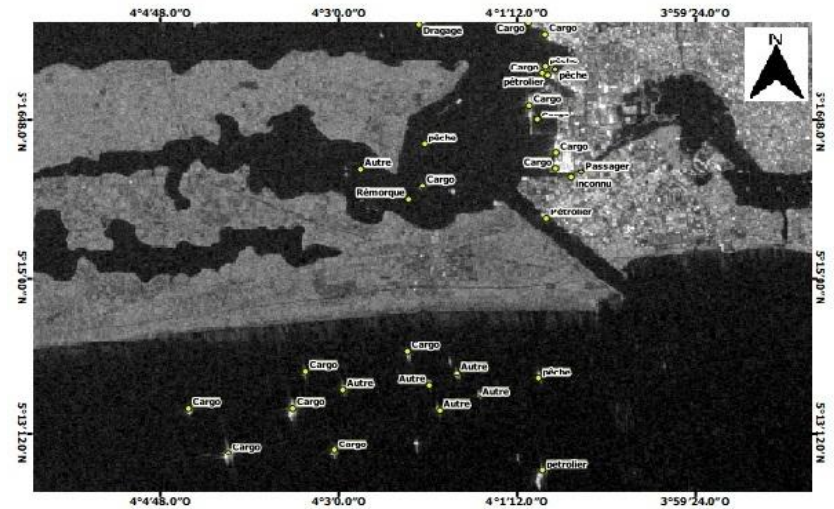


Légende :

- Navires détectés (S1A)
- Continent
- Plans d'eau

0 1 2 km

Ship positioning maps based on Sentinel 1A radar data



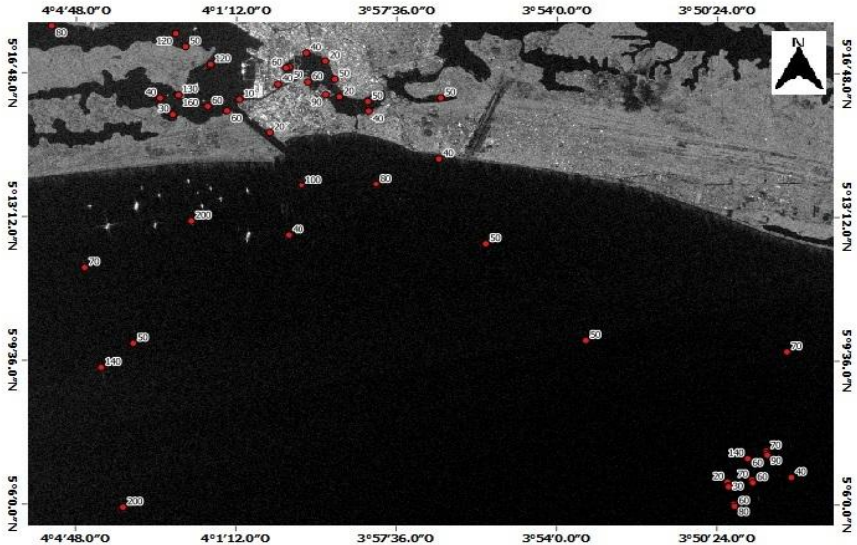
Légende :

- Positionnement des navires (AIS)
- Continent
- Plans d'eau

0 1 2 km

Ship positioning maps based on AIS data

MARITIME SURVEILLANCE



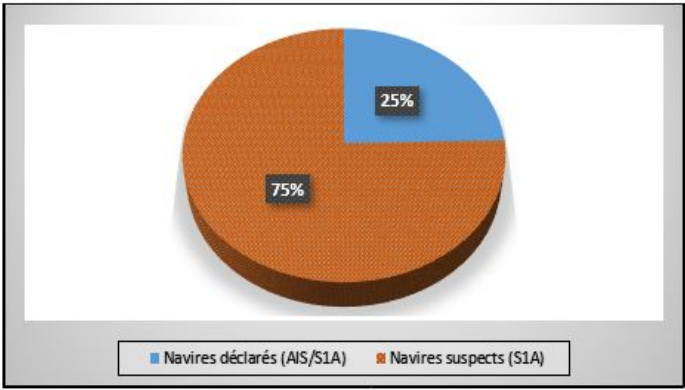
Légende :

- Navires suspects (Sentinel-1A)
- Continent
- Plans d'eau

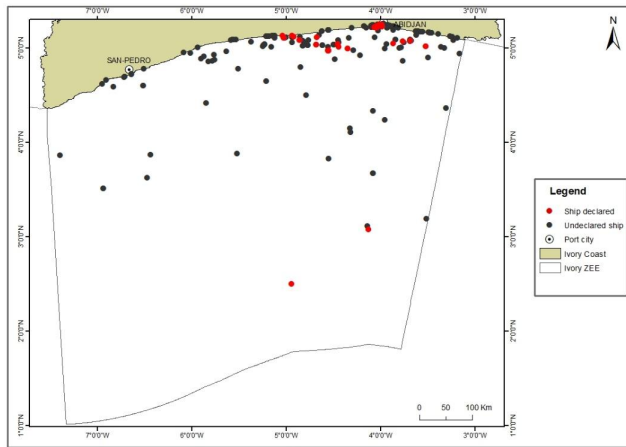


Percentage of suspected vessels and declared vessels

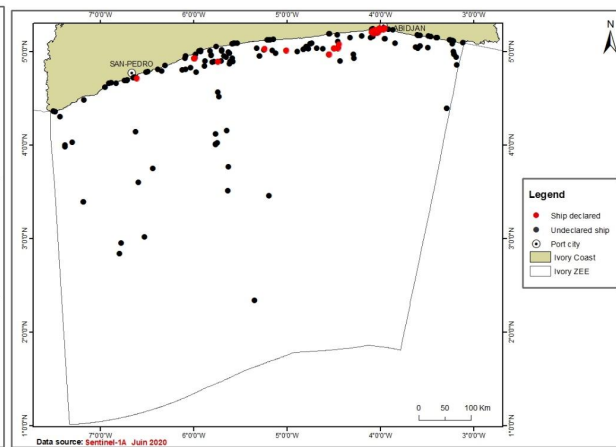
- 75% of vessels detected (RSO) where not identified by the system AIS
- 25% of vessels detected (RSO) where not identified by the system AIS



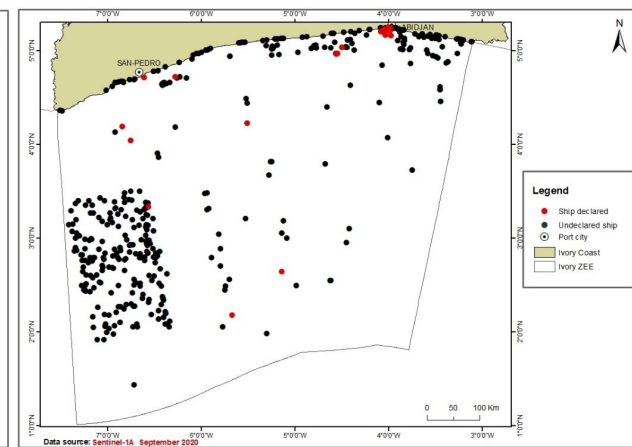
pourcentage des navires suspects et des navires déclarés



a) Janvier 2020



b) Juin 2020



c) Septembre 2020

Map of suspected vessels for the months of January, June, and September 2020 using Sentinel RADAR imagery

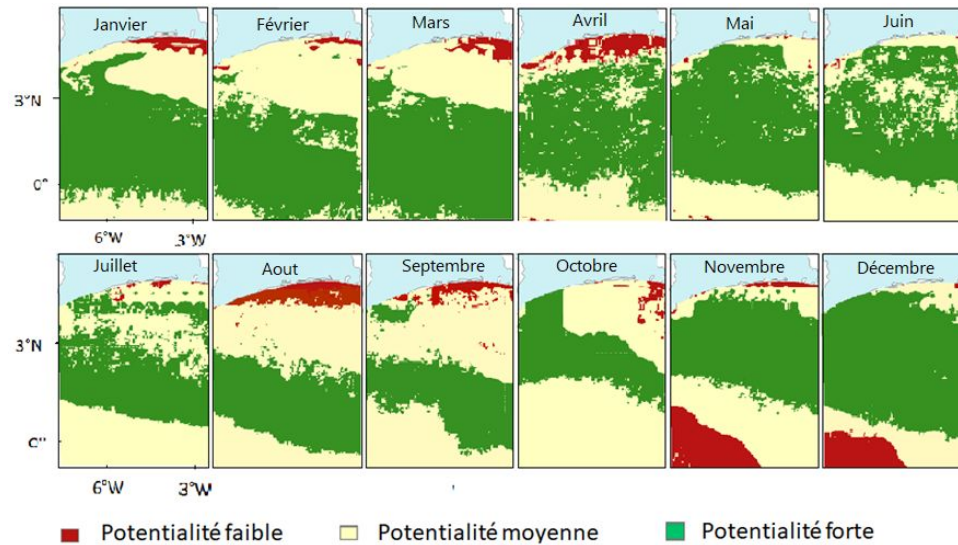
- In red, declared vessels thus tracked from their positions
- In black, undeclared vessels without automatic detection system (**AIS en anglais**)

This gives fishermen an idea of where they may be vulnerable to pirate attacks

MARINE USAGE CONFLICT

Designing an Interactive Website to Highlight Areas of Conflict of Use in Ivorian Marine Waters





Potential spawning zones for tuna from 2013 to 2018 based on reclassified variables (temperature, salinity, and turbulence)

Priorities

- Short term (in the next year or two)
 - Defining the Three-Year Global Strategy
 - Reviewing the organization and coordination of GOOS-AFRICA secretariat
 - Identifying partners for establishing fruitful collaborations
 - Selection of variables to be measured
 - implementation of the budget allocated to GOOS-AFRICA for the current biennium
 - Training courses:
 - Remote sensing
 - Modelling
 - Data collection and processing on vessel research
 - Definition of an action plan over 3 years for GOOS AFRICA

- Long term (5+ years)
 - Defining the Five-Year Global Strategy
 - Promoting data quality and technological innovation
 - Establishing a regular observation evaluation strategy
 - Improve prediction in African coastal zone
 - Implementation of education and awareness-raising strategy
 - Establishing a continuous adjustment procedure for the strategic plan

- • • • • Determining priority areas of observation • • Defining a communication strategy • • Defining the timeline of activities to be conducted •

What support do you need from GOOS?

- From GOOS structures (Steering Committee, panels, the Observations Coordination Group and JCOMMOPS, GOOS Office): support to implement GOOS-AFRICA activities
- From other GRAs: partnership and sharing of best practices
- From the GRA Forum: sharing best practices

**THANK YOU FOR YOUR
ATTENTION**