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United Nations Office on Drugs and Crime

Maritime Exercises using Copernicus Services

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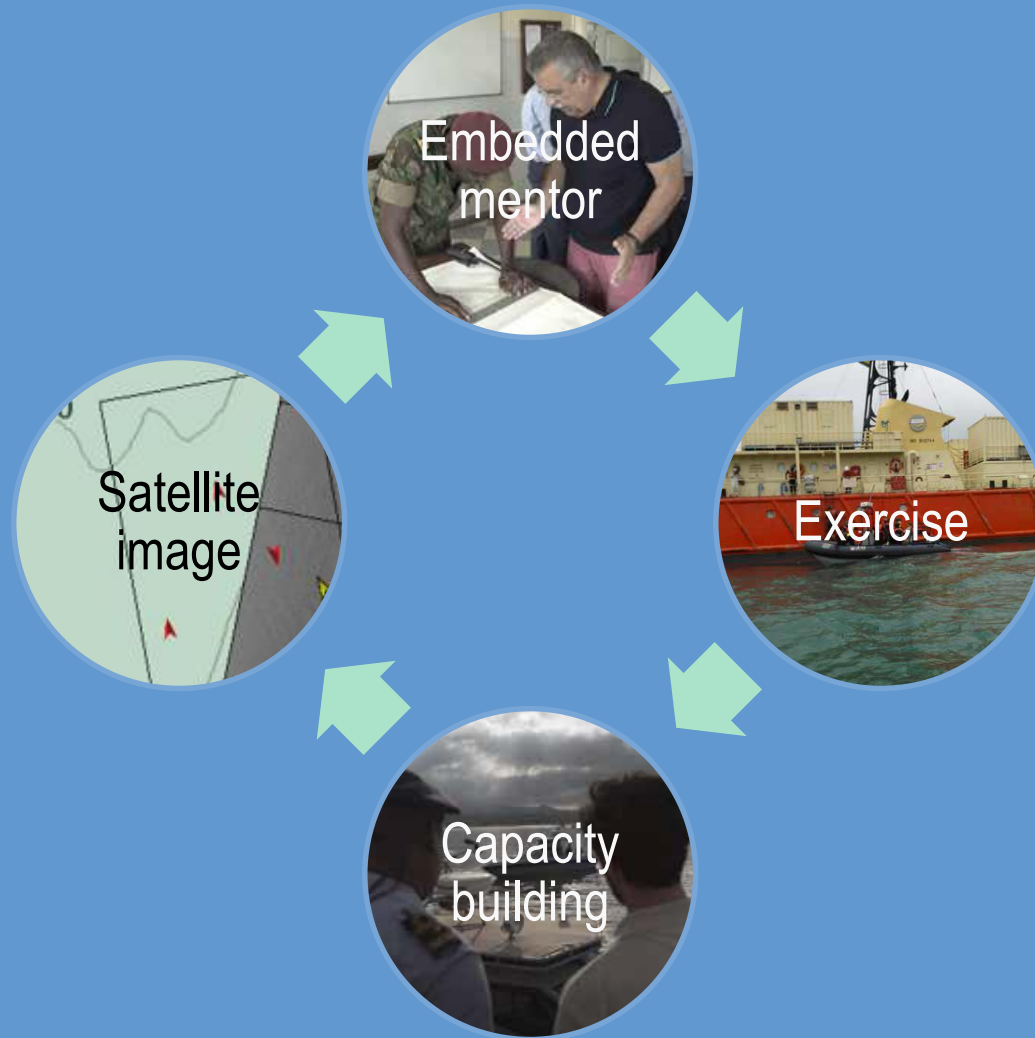
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Outline

1. Goals of the exercises
2. Cases of Satellite exercises
 1. São Tomé-et-Príncipe
 2. Senegal, Guinea Bissau and Gambia
 3. Togo
 4. Liberia
 5. Senegal, Cabo Verde, Guinea Bissau, Sierra Leone and French Navy
 6. Cabo Verde
 7. Sri Lanka

1. Goals of the exercises

Role of embedded mentors



Transshipment is used...

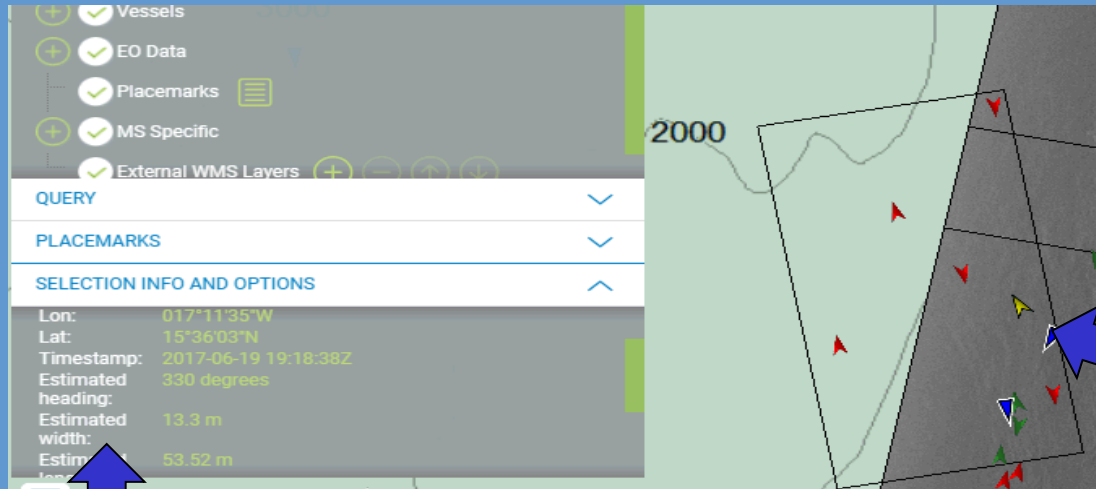
...to
avoid
port
fishery
controls

... to
transfer
drugs
into
smaller
boats



Targeting illegal
transshipments
for inspections
at sea

Cooperation GMCP/EMSA



Size and position of the target vessel

Target vessel has no AIS or VMS signal

Patrolling supported by the satellite image and a GMCP embedded advisor

2. Cases of Satellite exercises

São Tomé-et-Príncipe (September 2016)

- Exercise with Coast Guard
- Match satellite data and identify 2 potential targets
- Develop strategy and boarding plan
- Simulate boarding exercise prior to the visit of potential targets
- Emphasis on procedures of safety



Senegal, Guinea Bissau and Gambia (June 2017)

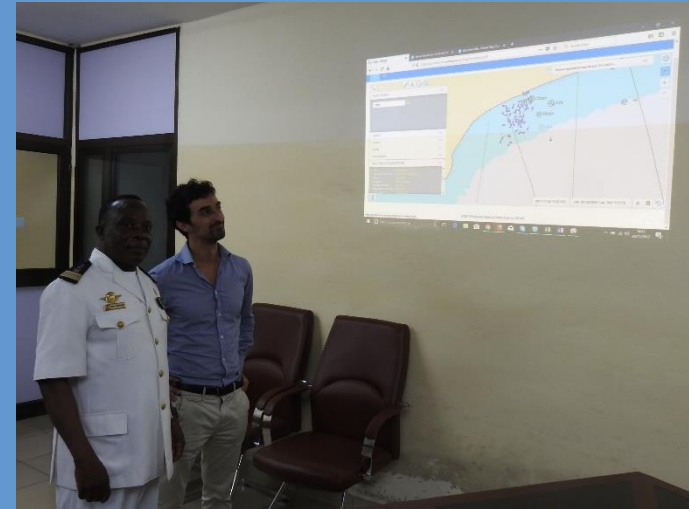
Different images provided:

image 1: covering large part EEZ of Senegal and Gambia

- Several potential targets analyzed
- 3 Senegalese vessels deployed in the south
- more than 12 fishing vessels inspected

Image 2: smaller area covered, concentrate assets on the south, another dozen of fishing vessels inspected

Image 3: taken at larger distance from coast, no relevant targets



Senegal, Guinea Bissau and Gambia (June 2017)

The use of images allowed :

- Crossing satellite data with AIS, VMS
- Discussions on red targets (size, position, resolution)
- Senegalese Navy able concentrate full assets on the south
- More than 100 vessels were physically detected
- Dozens of vessels inspected
- 1 arrest under direction of Sub Regional Fishing Commission



Senegal, Guinea Bissau and Gambia

Shortcomings:

- Internet connection
- Need a better coordination among LEA in terms of AOI and area of operation
- Better coordination between provider of images and the different authorities
- For future operations, involve LEA dealing with drug smuggling

Togo (November 2017)

- Exercise on simulated drug trafficking at sea
- In waters under Togolese jurisdiction, within the context of Nemo 17.3
- Operational capabilities strengthened, better able to combat maritime crime
- Support:
 - UNODC and its embedded expert
 - French Navy
 - Under leadership of Togolese Maritime Prefecture
 - EMSA/EU Copernicus providing the images



Liberia (December 2017)

- 1 optical satellite image
- Patrol Boat A deployed at center of area
- Patrol Boat B deployed at the border of same area of operation
- Day of operation cloudy: satellite image unable to contribute operationally, but greatly beneficial in psychological terms (Liberian Coast Guard officers thrilled by its use).
- Briefing to CG and fishery bureau inspector on tactical plan, UNODC highlighted importance proper procedures and human right compliance



Liberia (December 2017)

- One fishing vessel showing no flag escorted to port; having no Liberian fishing license, no crew list, no logbook, no registration, no manifest of cargo
- Liberian authorities show commitment to proper exploitation of satellite image
- Interagency cooperation

Need additional

- Capacity building
- Navigational training
- Better radio communication
- Law of the sea training



Senegal, Cabo Verde, Guinea Bissau, Sierra Leone and the French Navy (May 2018)

- French vessel targeted for detection and boarding procedures
- Logistical and planning advised by embedded experts
- 2 satellite images
 - one radar depicting the EEZ border between Senegal and Cabo Verde
 - one optical centered inside the Guinea Bissau EEZ
- Exercises handled by national authorities
- Each country deployed maritime assets for patrol

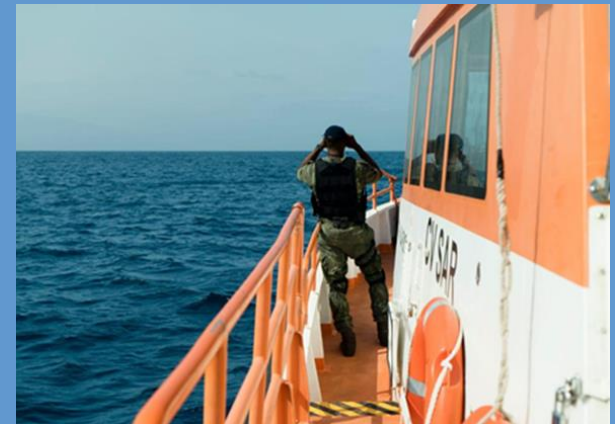


Cabo Verde (August 2018)

- Multi-agency exercises using EU Copernicus satellite images
- Simulated boarding exercise
- Satellite images CG identified 2 targets, not AIS correlated
- Sent patrol vessel to inspect area

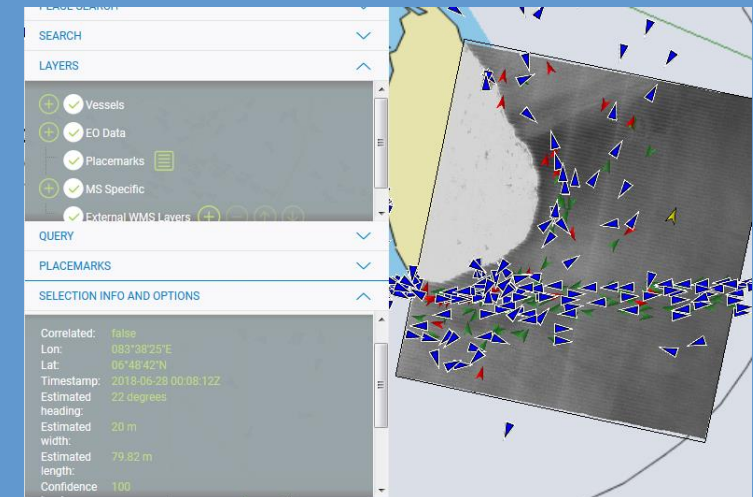
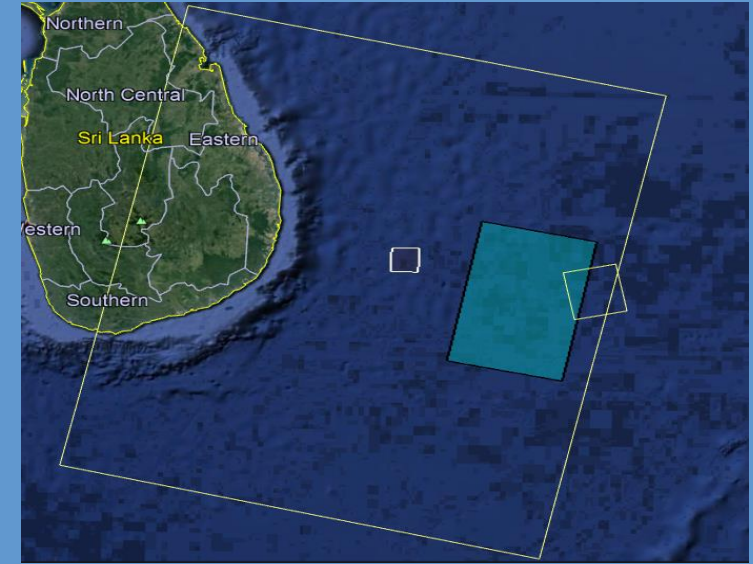
Exercise:

- 1) allows to train personnel on use satellite images in context of real operations.
- 2) Add motivation to MLE agencies



Sri Lanka (June 2017 and June 2018)

- Identification of Polygon area for operation
 - Patrol Boat deployed outside polygon area
 - Coordinate joint operation with Navy and Fisheries officials
-
- June 2017 – Over a weekend
 - SAR imagery received
 - Overlay of VMS done manually.
 - June 2018 – Cloud cover for optical imagery
 - SAR imagery was received
 - Overlay of VMS done manually.
 - No dark vessels between 25 -35m
 - Confidence ratio was under 50% on some.





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Thank You

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