



Information Fusion Centre – Indian Ocean Region



## VISION

*To be a Nodal Centre of Excellence for promoting collaborative maritime safety and security; towards a peaceful, stable and prosperous Indian Ocean Region*

## MISSION

*Enhancing Maritime Domain Awareness and coordinating activities, through Information Sharing, Cooperation and Expertise development; along with partner nations*

**The Centre was formally notified by IMO in April 2019**

# Collaborative Efforts

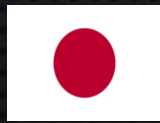


- 1 International Liaison Officers
- 2 Linkages
- 3 Analysis & Reports
- 4 Workshops, Seminars, Interactions
- 5 Operational Inputs

# International Liaison Officers



ILOs from 11 Countries deputed at the Centre



# Working-Level Linkages



**66 International Linkages**

PoCs in National Agencies & Multinational Constructs/Centres

# Information – Updates & Analysis



Daily	Weekly	Monthly	Half-Yearly	Yearly
Updates on website	Weekly Maritime Security Update ( <b>WMSU</b> )	Monthly Maritime Security Update ( <b>MMSU</b> )	Overview	Annual Report



# Interactions - Visits



US Navy Delegation



Chief of Navy, Bangladesh



Commander US Pacific Fleet



High Commissioner, Australia



Chief of Navy, France



Delegation, Kenya NDC



# Interactions – Seminars & Workshops



**Joint India – EU Online Workshop**  
**Maritime Domain Awareness and Interoperability**

**Keynote Speaker**  
  
**Admiral Prof Jayanath Colombage (Retd)**  
 Foreign Secretary to Govt of Sri Lanka  
 Independent Research Scholar on IORA

**Speakers**

 Capt Himadri Das, Indian Navy NME	 Mr Jeffrey Payne NESA	 Capt Kevin Duffy, US Coast Guard USAFRICOM
 Mr Joshua Gonzalez UNODC-GMCP	 Mr Mourad Ghorbel IMO	 Capt N Subbiah INSA

Information Fusion Centre Indian Ocean Region  
 Collaboration for Maritime Safety & Security

INDIAN OCEAN REGION SOUTH & SOUTHEAST ASIA  
**CRIMARIO**

Maritime Information Sharing Workshop

MDA/ Interoperability Workshop



**Session 4: Global & Regional Maritime Terrorism: Threats, Challenges & Response**  
**Date: January 20th, 2022 | 4:30PM-5:45 PM PM IST**

**INTERNATIONAL COUNTER TERRORISM CONFERENCE 2022**  
**Theme: Counter Terrorism - A Never Ending Warfare**  
**Date: January 20 - January 22, 2022**  
**Time: 10:00AM Onwards IST**  
**Platform: Online**

**OUR PARTNERS**

 National Forensic Sciences University	 CoinDCX	 NHPC	 BIMSTEC
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**KEY SPEAKERS**

 <b>KEY SPEAKER</b> Dr. Rieko Hayakawa Maritime Security Advisor for Palau National Security Coordination Office (Title: Who made the Confluence, the Two Seas? Indo-Pacific Strategy and Maritime Security of Pacific Islands)	 <b>KEY SPEAKER</b> Admiral Mark Montgomery Senior Director of CCTI and Senior Fellow at Foundation for Defense of Democracies (FDD) and Executive Director of CyberSolarium.org	 <b>KEY SPEAKER</b> Captain Soumyajit Mohanty Director Information Fusion Centre - Indian Ocean Region and Information Management & Analysis Centre, Indian Navy
 <b>KEY SPEAKER</b> Captain James E. Fanelli Former Naval Intelligence Officer, U.S	 <b>KEY SPEAKER</b> Inspector General Parmesh Sivamani PTM, TM Commander Coast Guard Region (West)	 <b>KEY SPEAKER</b> Capt N Subbiah INSA

@GCTCWORLD @GLOBAL COUNTER TERRORISM COUNCIL

Coastal Security Workshop for BIMSTEC Countries

International Counter Terrorism Conference





# Interactions – Linkages & Exercises



## Collaboration and Partnerships of Indian Ocean Information Fusion/ Sharing Centres

29 September 2021



Interaction with Indian Ocean Commission

Goa Maritime Conclave 2021

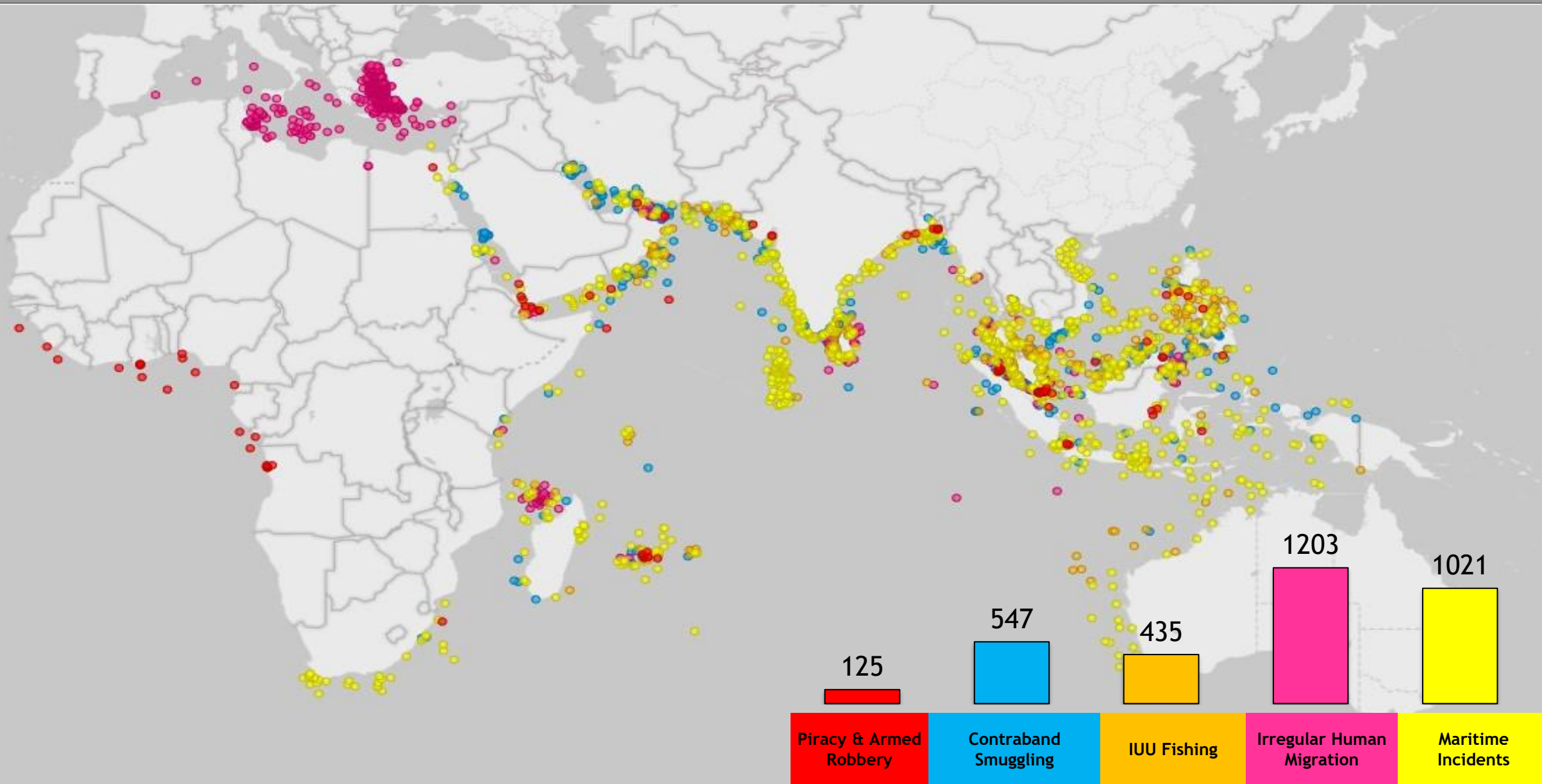


Djibouti Code of Conduct/ JA

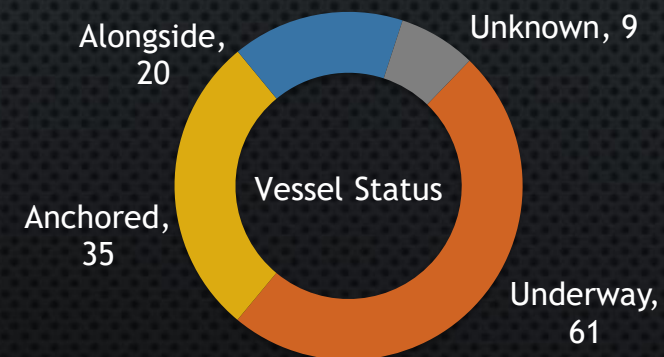
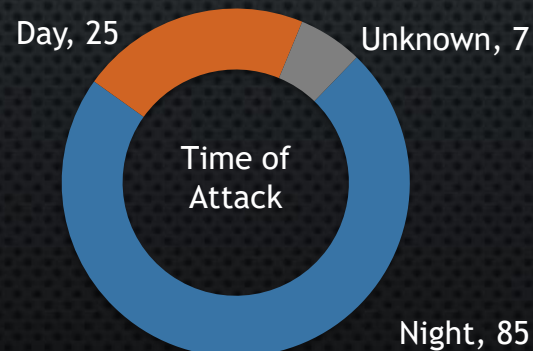
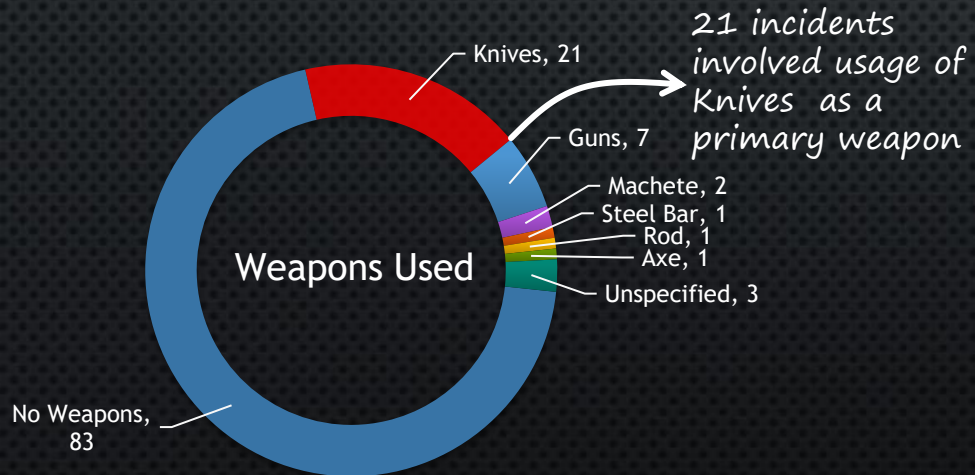
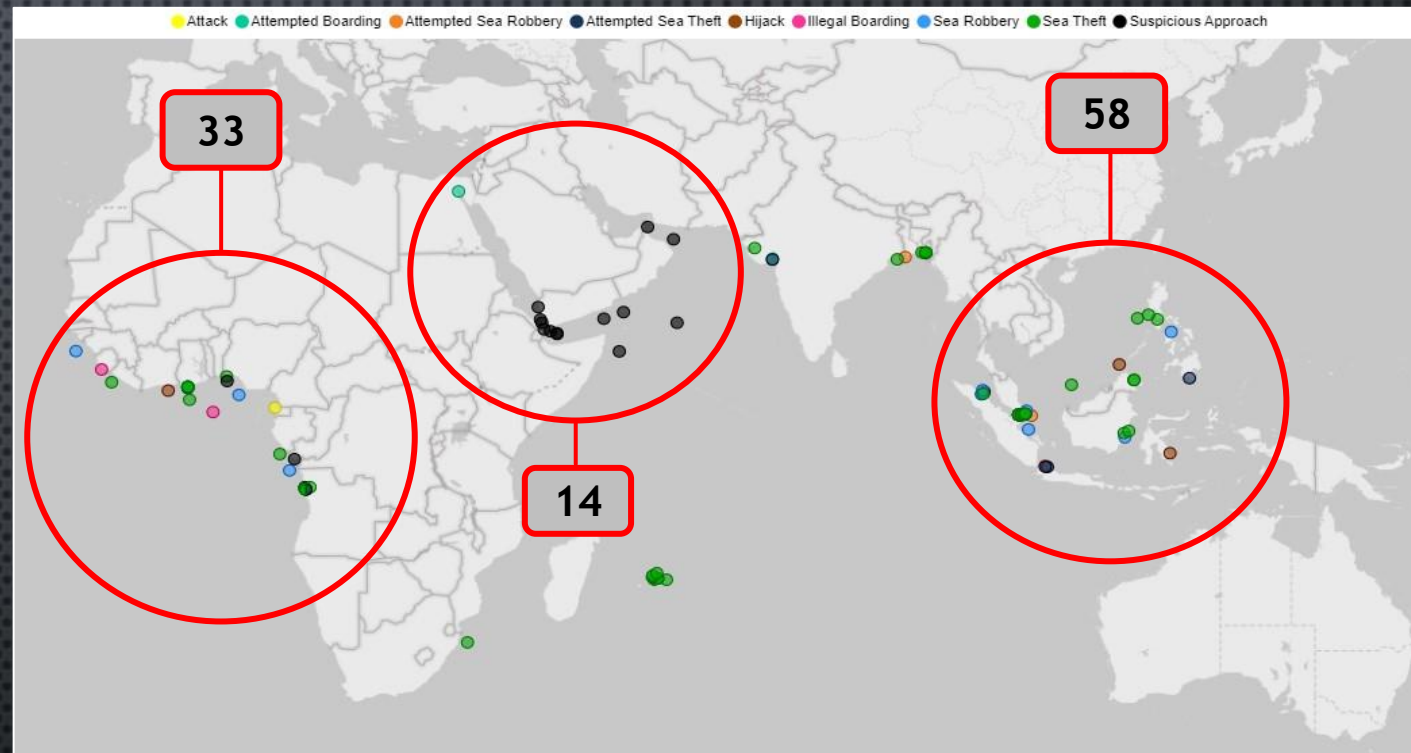
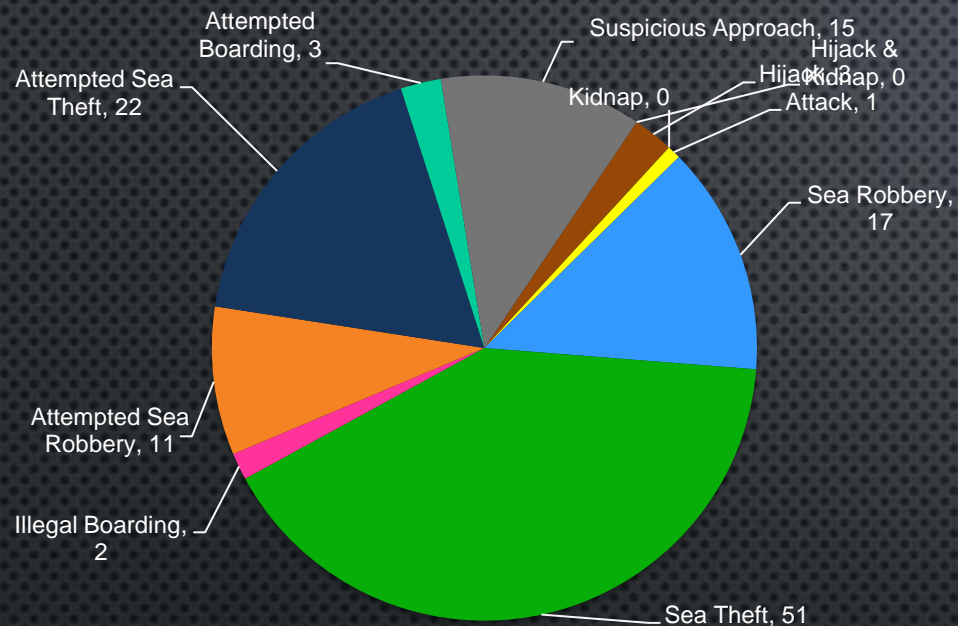
RCOC & MRCC Malé

MILAN 2022

# Jan - Sep 2022



# Piracy & Armed Robbery

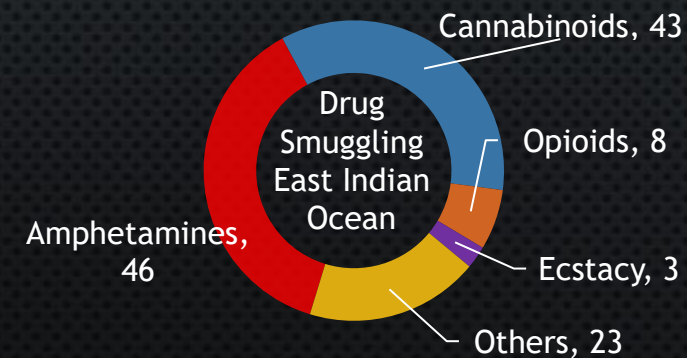
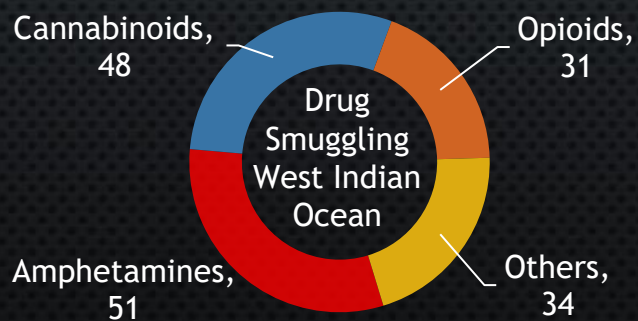
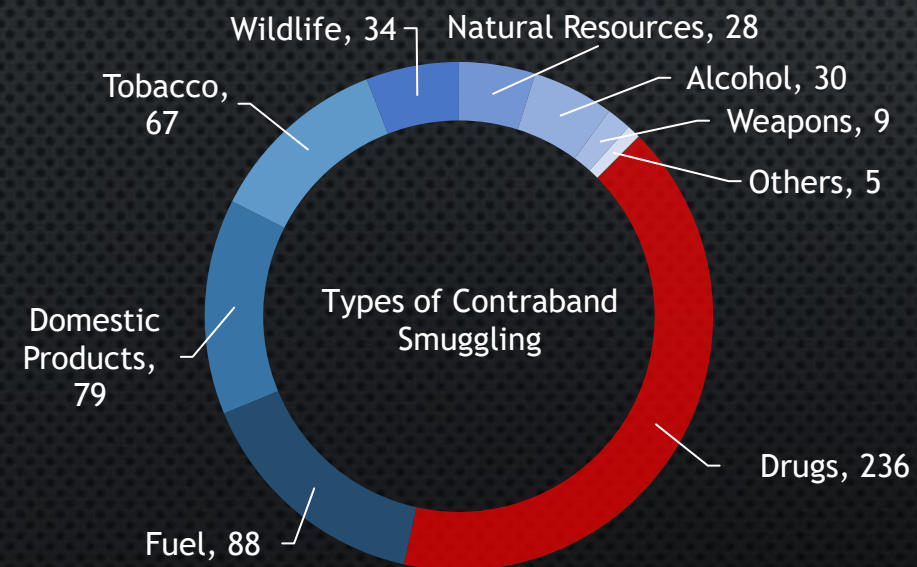
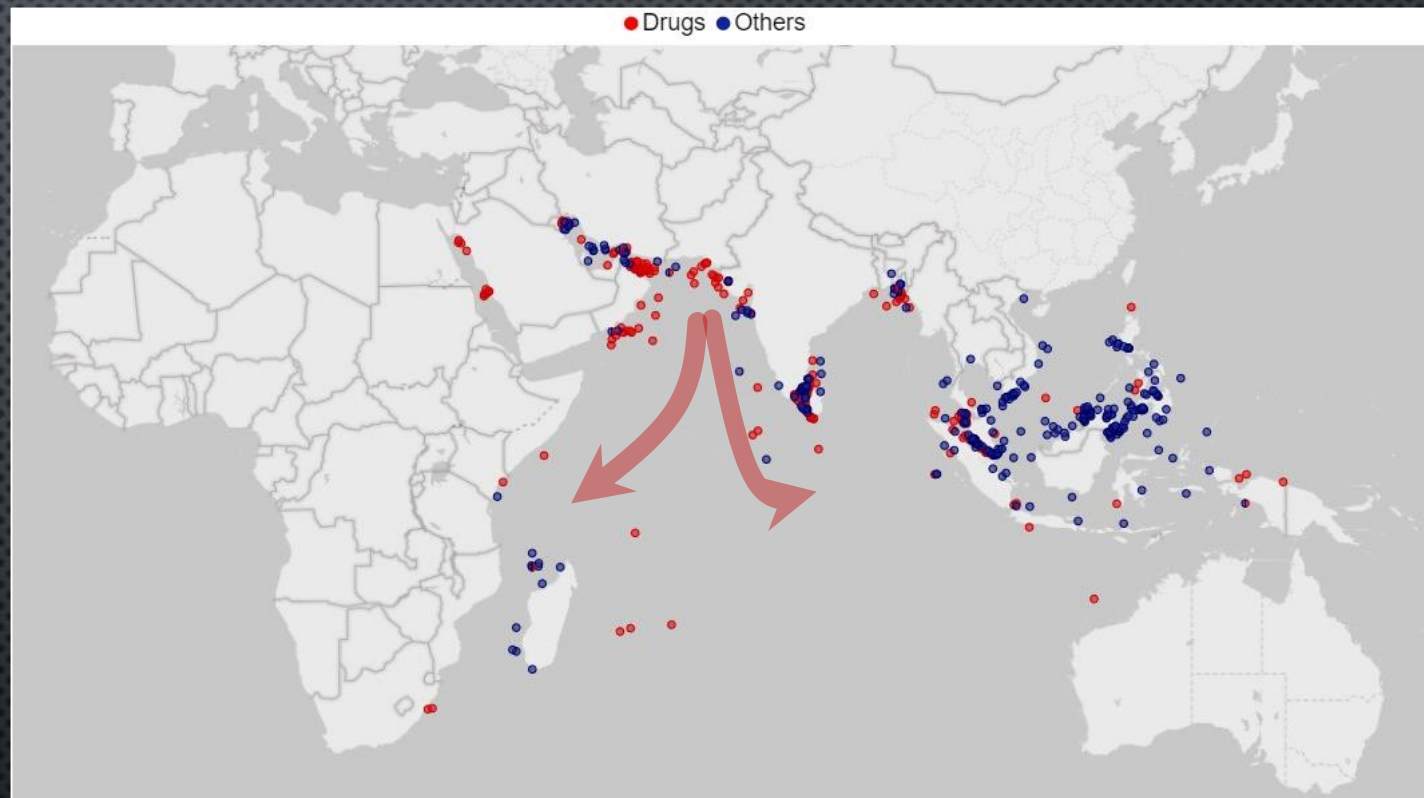


# Contraband Smuggling

Golden Crescent & Golden Triangle

Sea Routes Increasingly Preferred

Drugs moving in containers



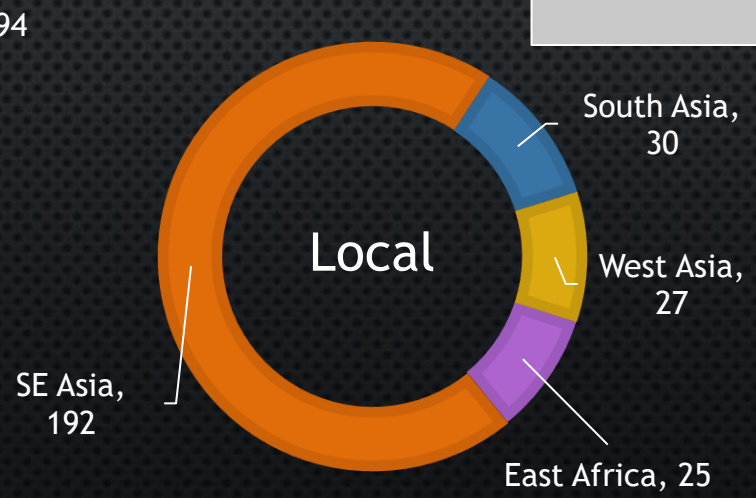
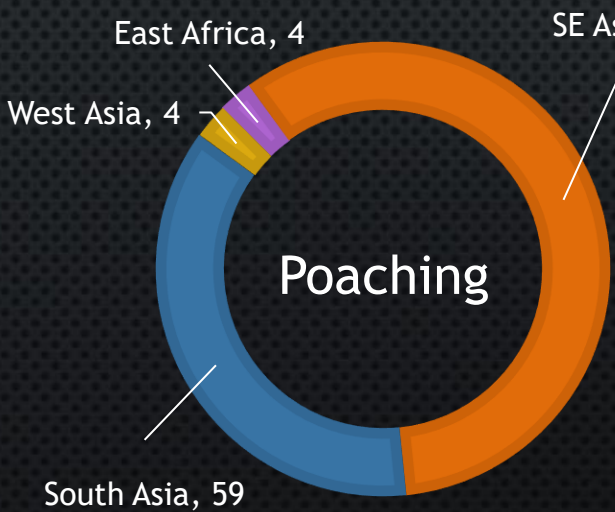
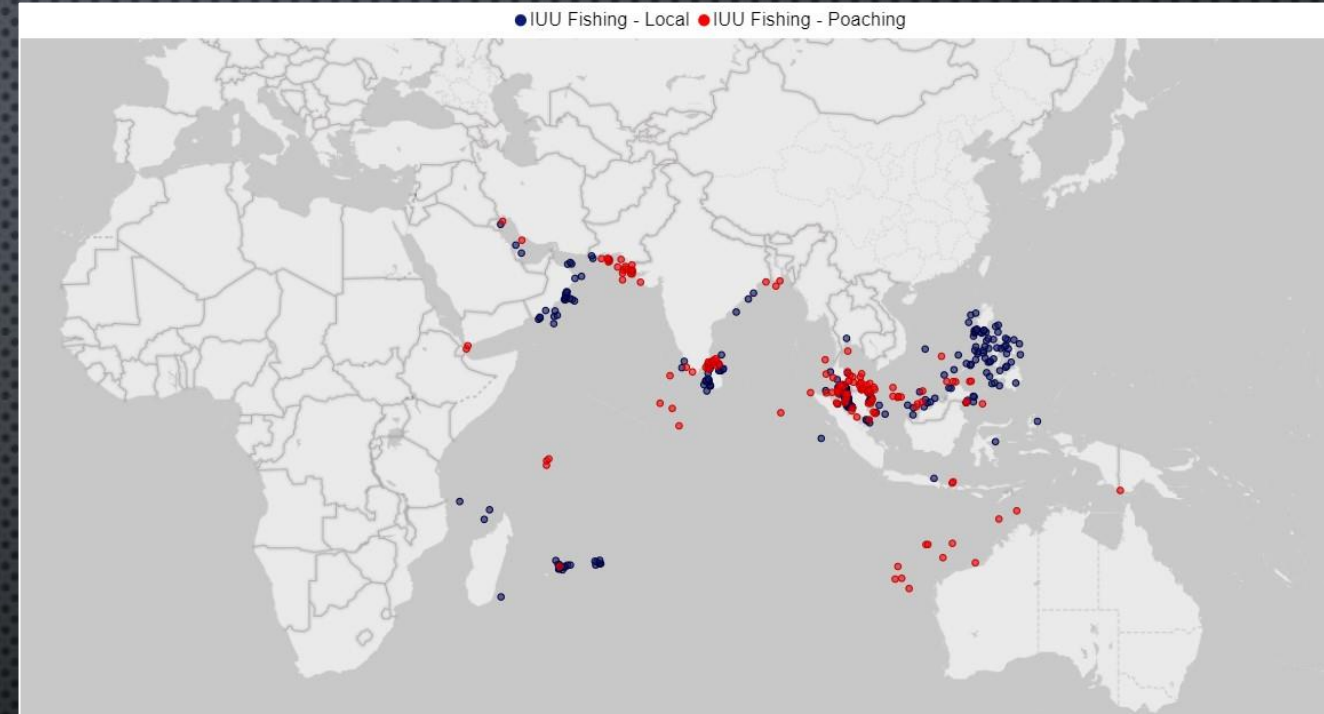
# IUU Fishing

10 - 23 Bn USD IUU Fishing Globally

Impact on Economy & Food Security

Linked to other Maritime Crimes

Legal Gaps



Fishing Vessels Involved

663



Fishers Involved

3,027

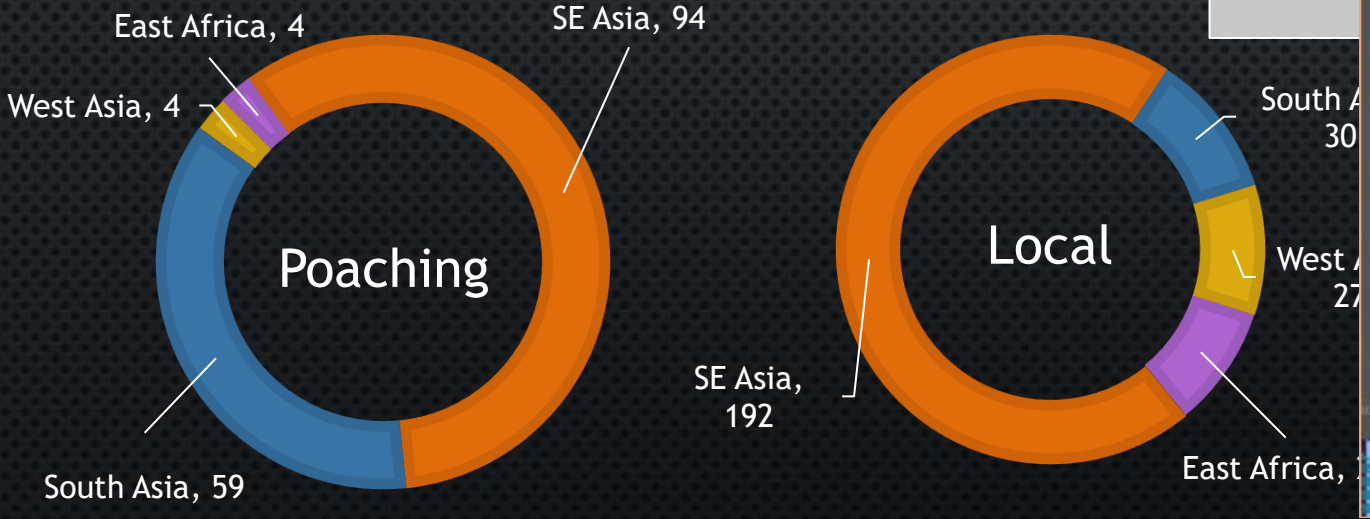
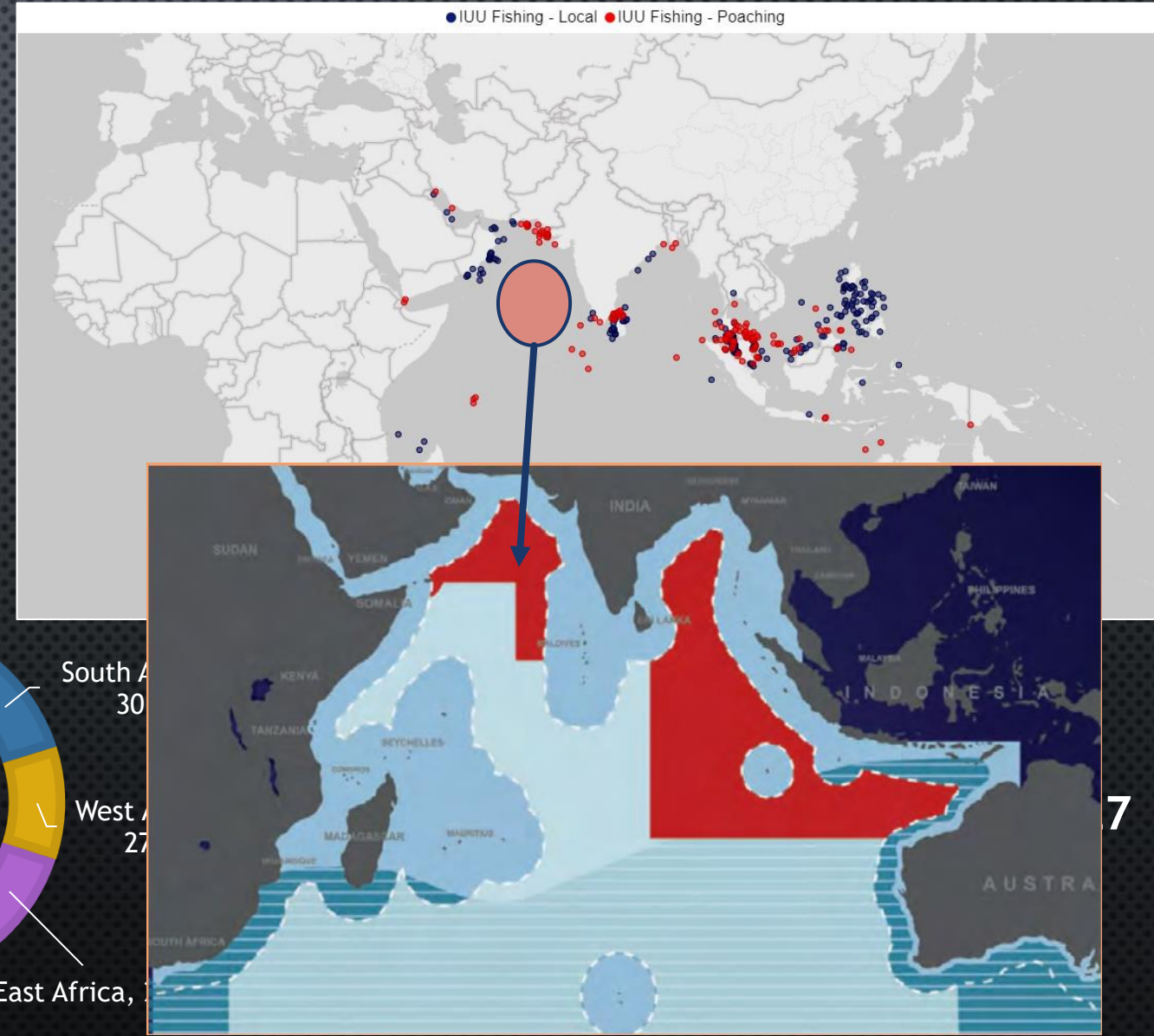
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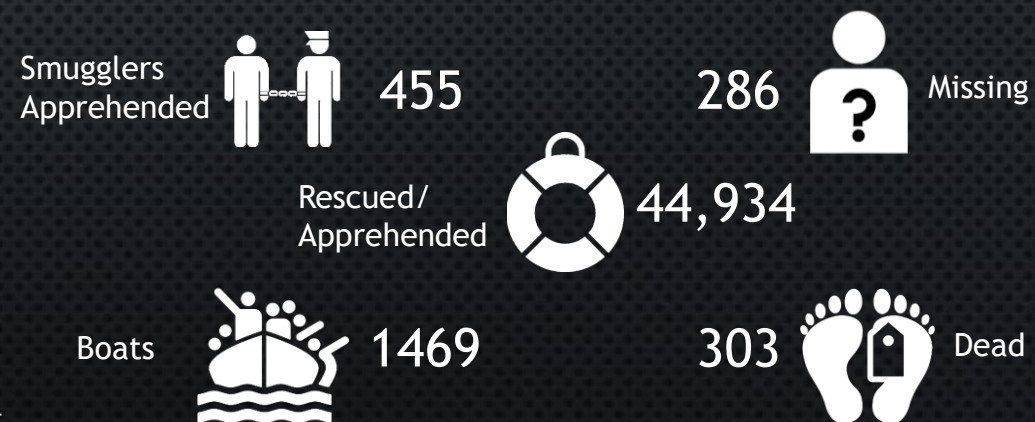
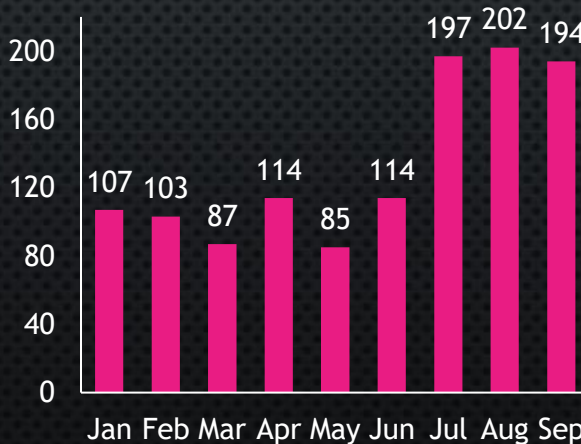
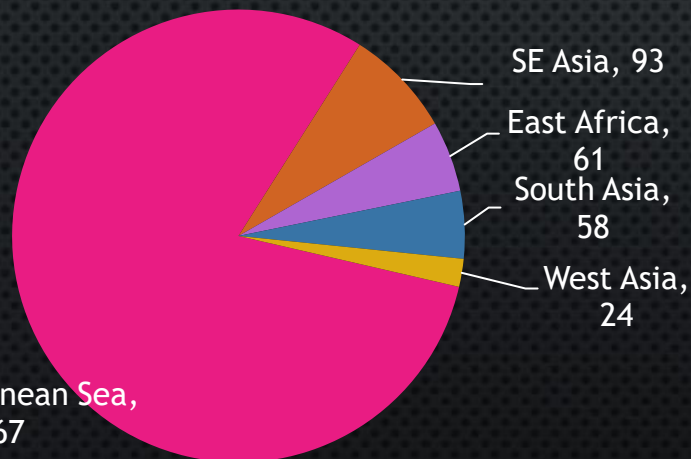
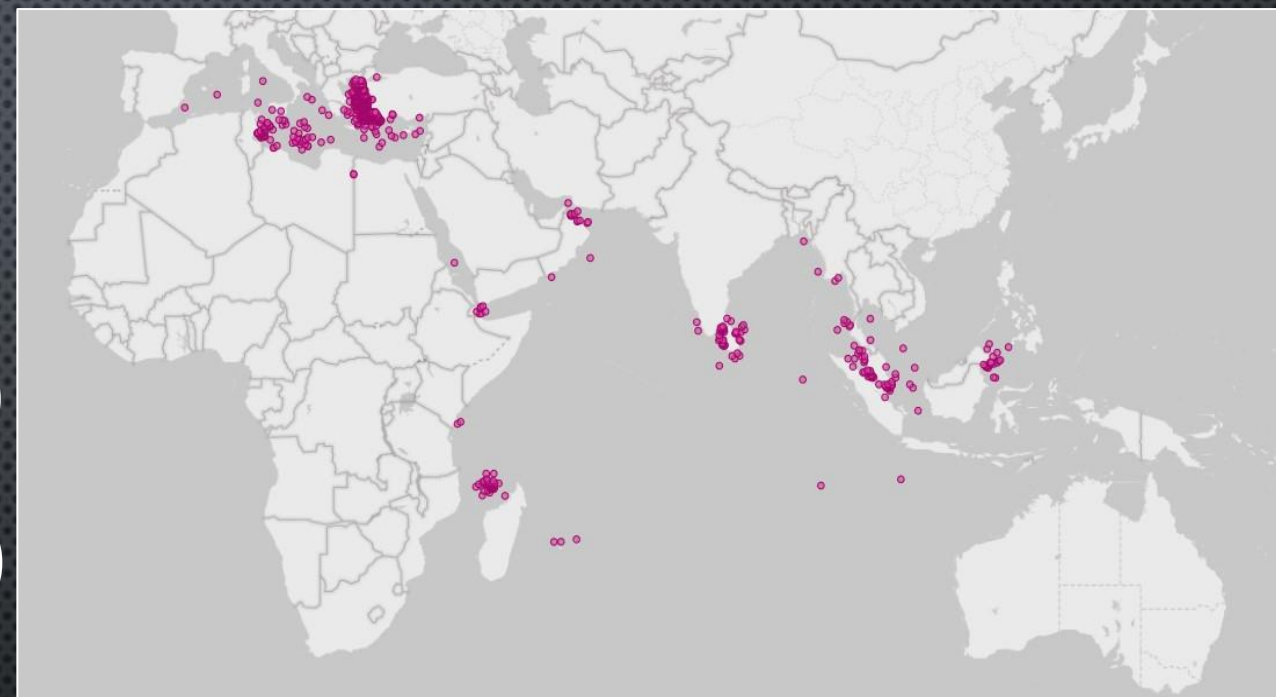
# Irregular Human Migration

Human migration using maritime routes

Small overcrowded boats & long journeys

Favourable Weather in Mediterranean Region

Inflatable Boats as means of transport





# Emerging MARSEC Threats



**Maritime Security Threats (Hybrid)**

**Cyber Threats in Maritime Domain**

**Marine Environment Pollution**

**Climate Change & Security**



# Maritime Terrorism

## From The Sea

Indirect/ Direct attacks ashore from sea



**Terrorist Attack on Mumbai by LeT - 26 Nov 08**

## At Sea

Indirect/ Direct attacks against ships at sea



**Bomb blast on MV Super Ferry 14 – 27 Feb 04**

# Maritime Security Threats (Hybrid)

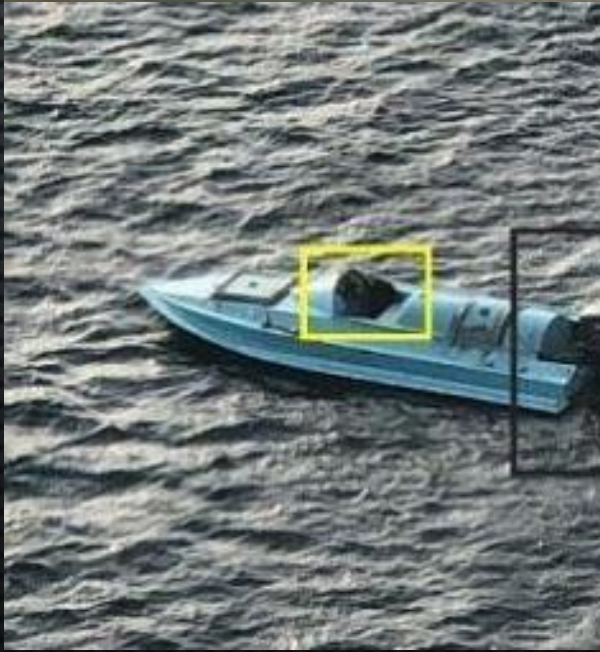
## Conflict Related Incidents

Mines

Water Borne IED's (WBIEDs)

Remote Controlled WBIEDs

Aerial Threats



# Cyber Threats

**IMO resolution – Cyber Security Risk Management**

**Most incidents – ransomware attacks**

**Recent notable cyber attacks in maritime domain**

- HMM – Jun 21
- Transnet – Jul 21
- CMA CGM – Sep 21
- Swire Pacific Offshore – Nov 21
- Ransomware attack at JNPT – Feb 22

**Vulnerability of submarine cables**



# Marine Environment Pollution

## MV WAKASHIO

- MV WAKASHIO ran aground off Mauritius – 25 Jul 20
- 1000 T of fuel leaked into the ocean
- International assistance in cleanup effort – France, India, etc.



# Marine Environment Pollution

## MV X-PRESS PEARL

- New Container Vessel – off Colombo, Sri Lanka
- Fire onboard – 20 May 21, Explosion – 25 May, Sank – 02 Jun
- Plastic Pellets, hazardous Chemicals & bunker oil onboard
- Indian firefighting, pollution control and survey assistance



## Maritime Security Threats (Hybrid)

**05** incidents involved destruction of Water Borne Improvised Explosive Devices (WBIEDs), all in Red Sea.

**01** each incident of a missile landing in Red Sea and destruction of mines were recorded in the Red Sea.

**01** incident of motorboat Explosion in Philippines Sea.

## Cyber Security Incidents

**01** incident of ransomware attack recorded at Jawaharlal Nehru Port Trust (JNPT), Mumbai, India.

## Marine Environment Pollution

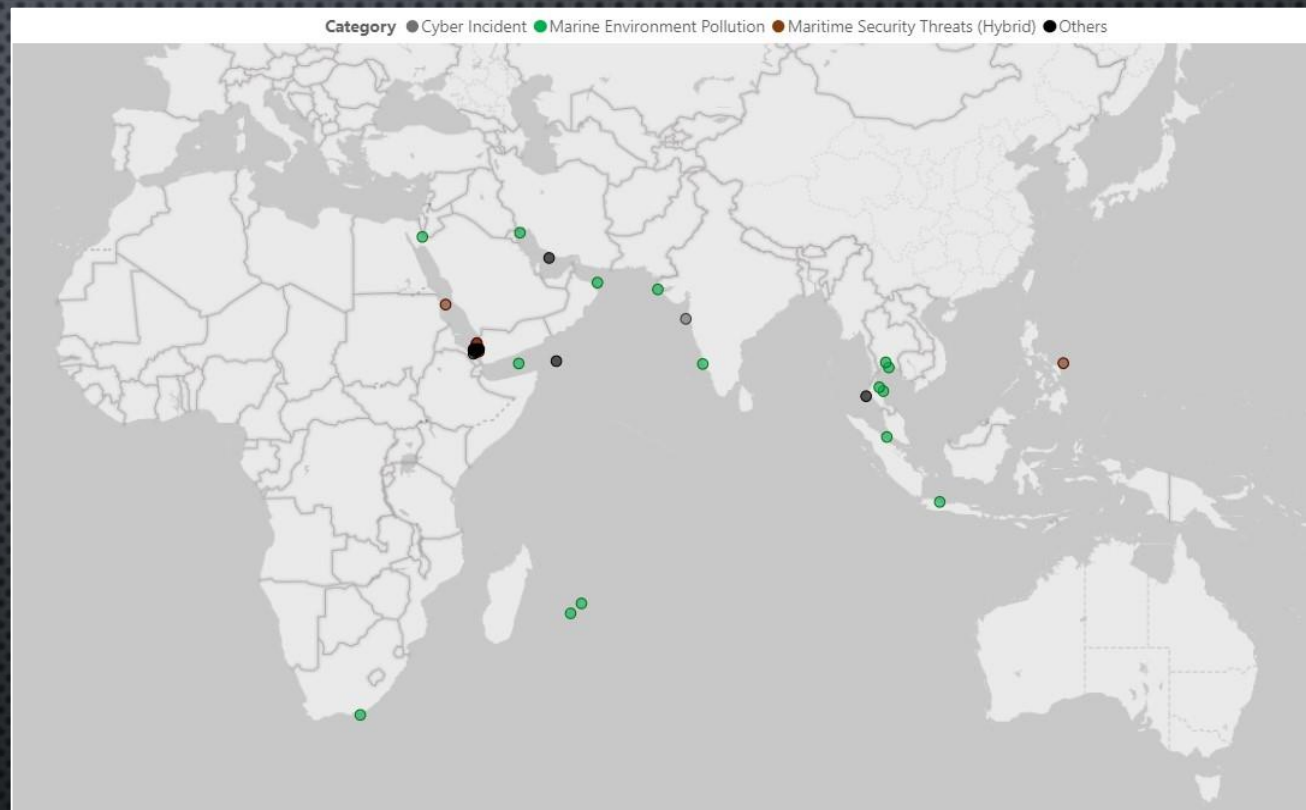
**13** incidents of oil spill (four each from leaking pipelines and sunk/ aground vessels and one incident involved a leak during ship-to-ship transfer).

**02** incident each (large number of detergent bags washed ashore and 100 packets of cooking oil) at Muscat Beach, Oman and Riau, Indonesia

## Others

**09** vessels reportedly detained in the Red Sea (likely conflict related incidents).

**01** incident involved facilitation of crew landing ashore by Thai authorities.



# Conclusion



**Collaboration is the key...**

# Information Fusion Centre – Indian Ocean Region



[www.indiannavy.nic.in/ifc-ior](http://www.indiannavy.nic.in/ifc-ior)



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