

AN OVERVIEW OF INDIA'S MARITIME SECURITY CHALLENGES



COMMODORE UDAI RAO (RETD)

FORMER PRINCIPAL DIRECTOR NAVAL INTELLIGENCE(PDNI)

FORMER DIRECTOR CABINET SECRETARIAT

FORMER DIPLOMAT

BLUE PLANET



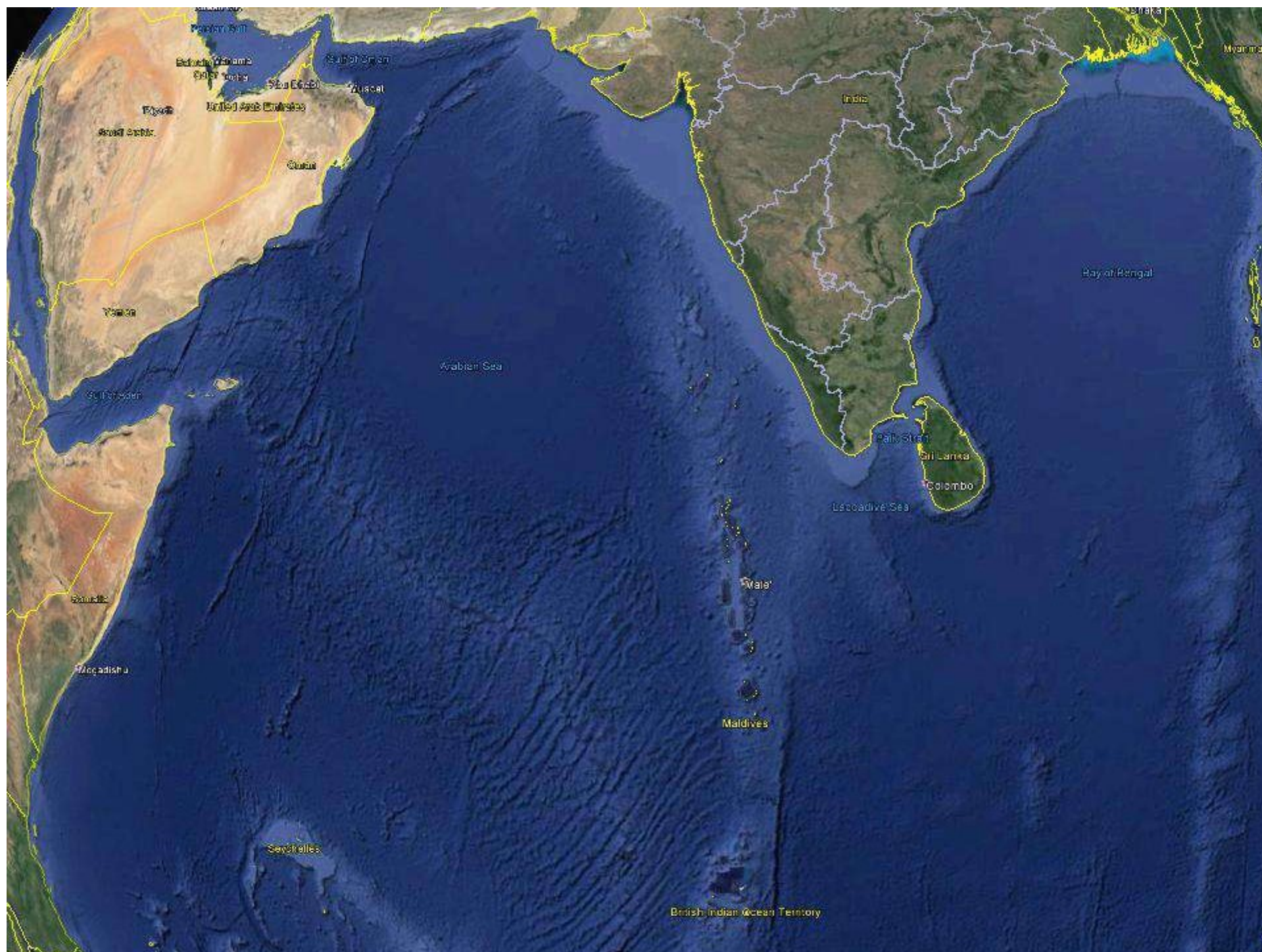
BLUE PLANET

- OCEANS COVER OVER 70% OF THE EARTH'S SURFACE
- REMOTE AND FAR FLUNG
- PERSONNEL & ASSETS FOR MARINE POLICING CAN NEVER BE ENOUGH
- NEARLY 40% OF THE WORLD POPULATION LIVES WITHIN 60 NM OF THE SEA

- **PRINCIPLE OF FREEDOM OF THE SEA – MARE LIBERUM**
- **12 NM TERRITORIAL WATERS**
- LACK OF JURISDICTION ON THE HIGH SEAS BEYOND EEZ : >200nm
- COMPLICATES MARITIME OPS AND MARITIME LAW

- **INDIA – HISTORICALLY ALWAYS A MARITIME NATION**
- **RIG VEDA -- “JHALAM EVA YASYA BHALAM EVA THASYA”**
- **HE WHO COMMANDS THE SEA IS ALL POWERFUL.**





“Whoever controls the Indian Ocean will dominate Asia. This Ocean is the key to the seven seas. In the 21st century, the destiny of the world would be decided on its waters.”

Captain Alfred Thayer Mahan

Circa 1890



SEA LINES OF COMMUNICATION

66% OF WORLD'S OIL
50% OF WORLD'S CONTAINER TRAFFIC
33% OF WORLD'S CARGO

80% OF TRADE IN IOR IS EXTRA-REGIONAL

PM MODI'S MARITIME INITIATIVES

- LOOK EAST TO ACT EAST POLICY
- NEIGHBOURHOOD FIRST POLICY
- SAGAR –SECURITY AND GROWTH FOR ALL IN THE REGION
- INDO –PACIFIC POLICY
- QUADRILATERAL SECURITY DIALOGUE(QSD)- QUAD

PM MODI'S PROJECTS

- 'MAKE IN INDIA' CAMPAIGN
- DEVELOPMENT AGENDA – 'SABKA SAAT SAB KA VIKAS'
- BLUE ECONOMY
- SAGARMALA PROJECT
- ATMANIRBHAR BHARAT
- MARITIME VISION 2030
- ALL DEPENDENDANT ON SAFE SEAS

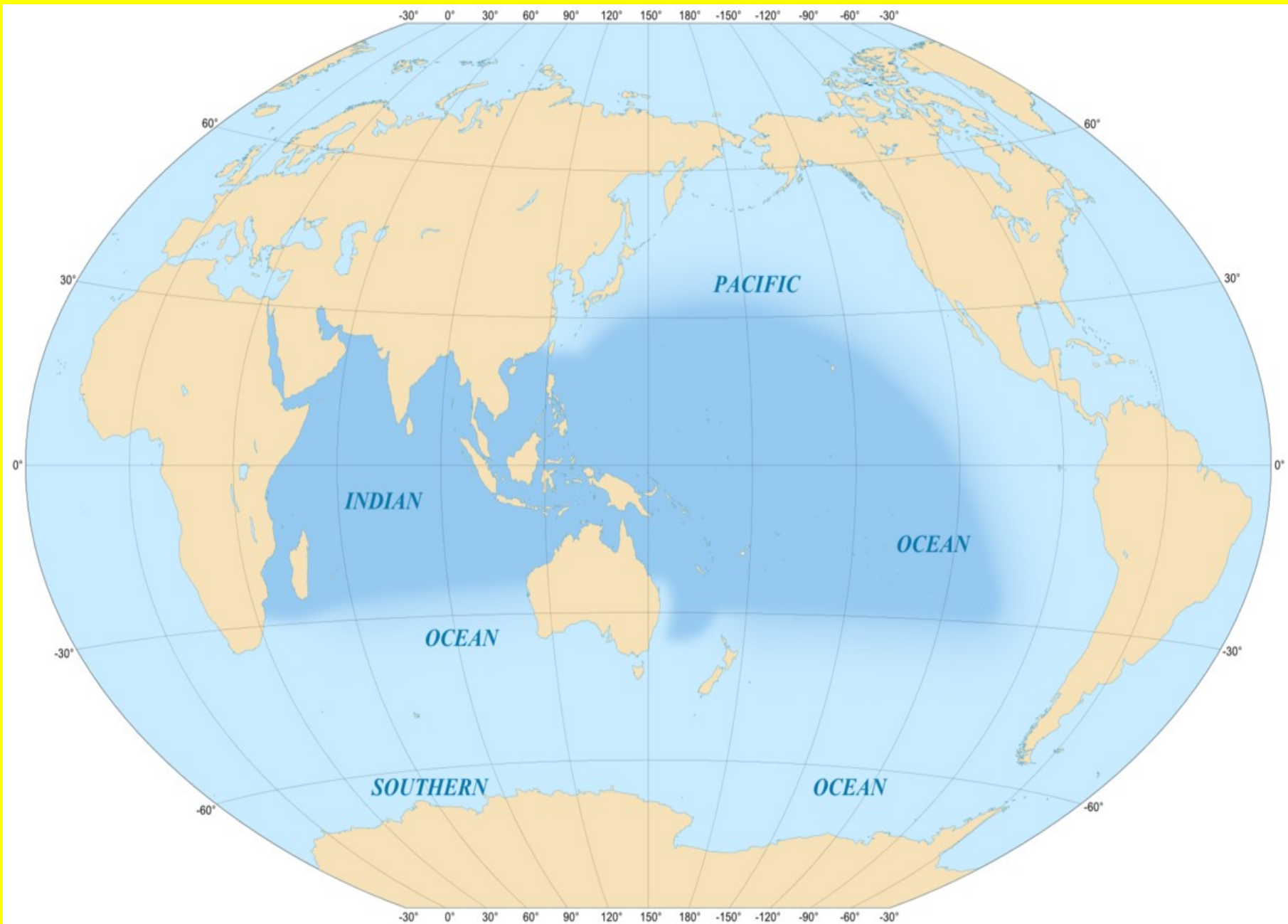
**PM MODI ADDRESSES UNSC –AUGUST 2021
'ENHANCING MARITIME SECURITY — A CASE FOR INTERNATIONAL COOPERATION',**



5 PRINCIPLES

- REMOVE BARRIERS TO MARITIME TRADE
- MARITIME DISPUTES SHOULD BE RESOLVED PEACEFULLY IN ACCORDANCE WITH INTERNATIONAL LAW
- COUNTRIES JOINTLY TACKLE MARITIME THREATS FROM NON -STATE ACTORS AND NATURAL DISASTERS
- MARITIME ENVIRONMENT AND MARINE RESOURCES NEED TO BE CONSERVED HIGHLIGHTING POLLUTION FROM PLASTIC WASTE & OIL SPILLS
- DEVELOP RESPONSIBLE MARITIME CONNECTIVITY - SAYING A STRUCTURE WAS NEEDED TO BOOST MARITIME TRADE WITH DEVELOPMENT OF GLOBAL NORMS & STANDARDS

INDO –PACIFIC CONCEPT



QUADRILATERAL SECURITY DIALOGUE /QUAD

- **US, JAPAN ,INDIA AND AUSTRALIA -2007**
- **REVIVED A DECADE LATER- 2017**
- **CHINA - SOUTH CHINA SEA IMBROGLIO**
- **CHINA'S AGGRESSIVE -ECONOMIC ,DIPLOMATIC ,MILITARY WESTWARD PUSH**
- **CHINA -PRIMARY CHALLENGE TO INDO- PACIFIC SECURITY**

➤ QUAD – NON MILITARY

➤ QUAD PLUS

➤ VACCINE SUPPLY CHAIN

➤ RESILIENCE OF SHIPPING SUPPLY CHAIN

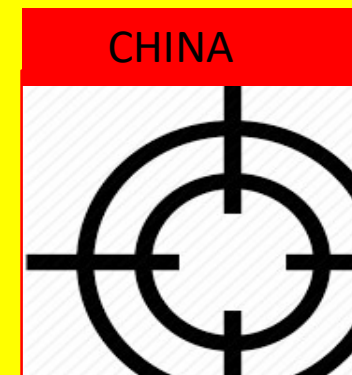
➤ CLIMATE CHANGE

➤ CRITICAL TECHNOLOGIES

➤ AUKUS

COMMENTS ON INDO- PACIFIC & QUAD

- **FREE , OPEN, PROSPEROUS AND INCLUSIVE INDO-PACIFIC**
- **RESPECT FOR INTERNATIONAL LAW**
- **ENSURING FREEDOM OF NAVIGATION,OVERFLIGHT,MARITIME SECURITY & CONNECTIVITY**
- **RULE BASED ORDER**



MARITIME SECURITY

- PREPARING AND TRAINING FOR WAR
- NAVY AND COAST GUARD
- NUCLEAR DETERRENCE



MARITIME SECURITY

➤ COASTAL SECURITY

➤ BUILDING OUR OWN SHIPS & EQUIPMENT -

ATMANIRBAR

➤ PORTS & SHIPPING

➤ TRADE AND COMMERCE -95% BY VOLUME AND 72% BY
VALUE GOES BY SEA

➤ PROTECTION OF SEA LANES OF COMMUNICATION/
ENERGY SHIPMENTS -STRATEGIC CARGO

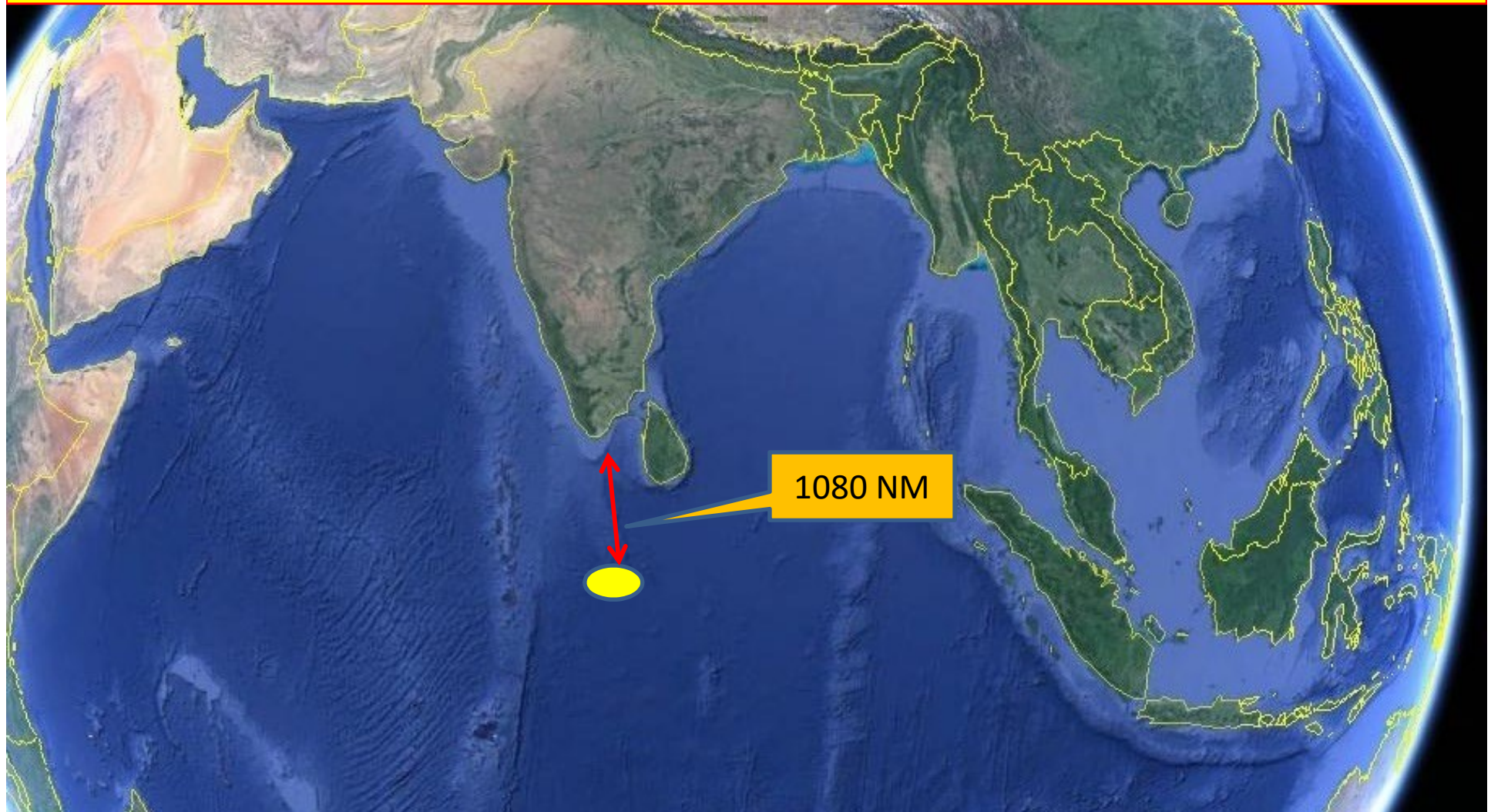
MARITIME SECURITY

- RESOURCE PROTECTION – FISHERIES ,CRUDE ,SEA BED MINING, MINERALS etc
- PROTECTION OF MARINE INFRASTRUCTURE –BOMBAY HIGH
- PROTECTION OF MERCHANT SHIPS FROM PIRACY
- PREVENTING ENVIRONMENTAL DISASTERS –OIL SPILLS
- PROTECTION OF FISHERMEN FROM PAK MARITIME SECURITY AGENCY (MSA)OR SRI LANKAN NAVY

DISTANT STRATEGIC INTERESTS

INDIA HAS A PIONEER STATUS IN SEA BED MINING

(INTERNATIONAL SEABED AUTHORITY)



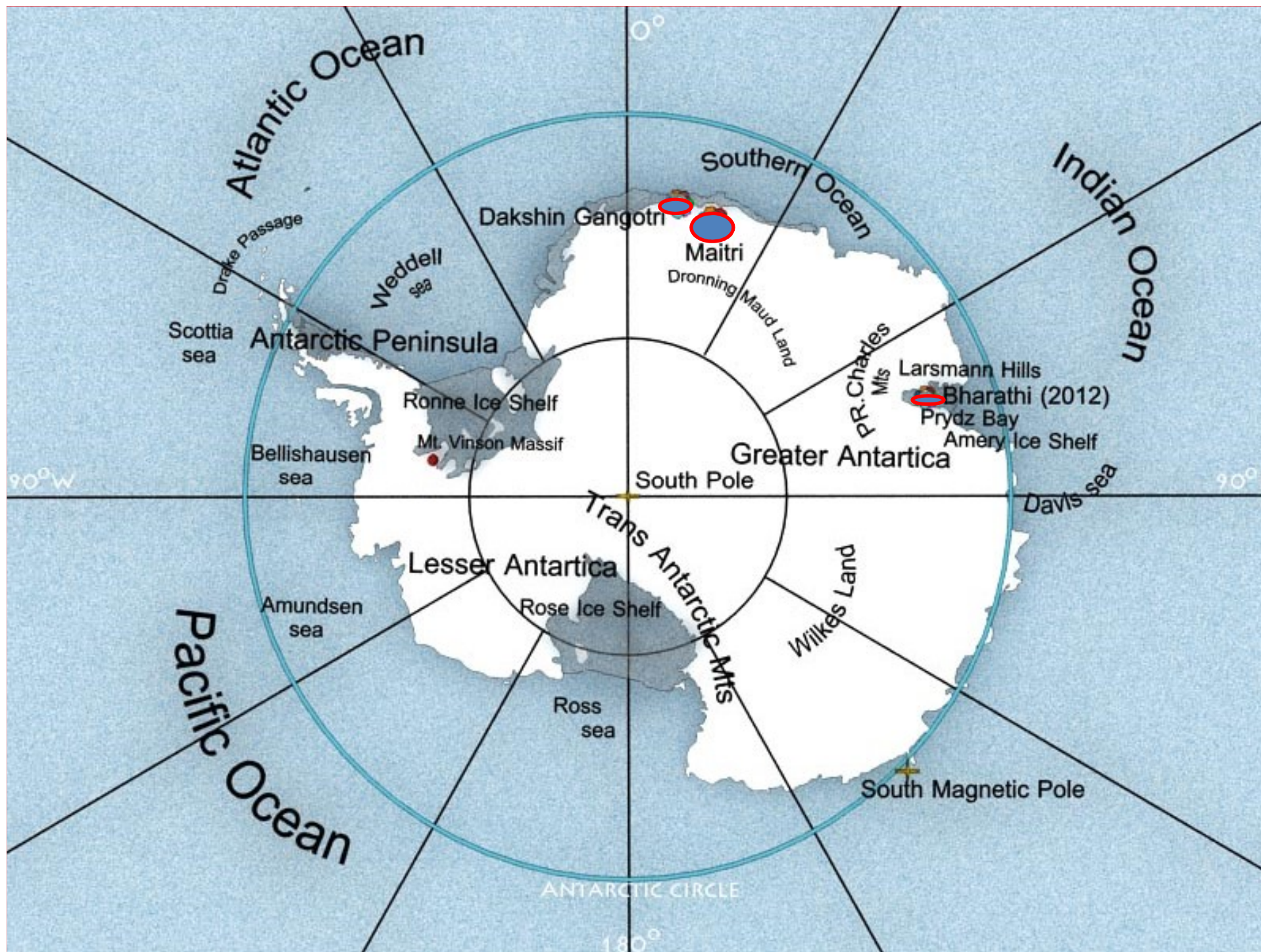
DEEP OCEAN MISSION

DEEP OCEAN MISSION –
SAMUDRAYAAN- MATSYA-
SUBMERSIBLE- 6000 M

1080 NM







ARCTIC REGION

HIMADRI RESEARCH STATION



How the new Northern Sea route compares to the traditional Suez Canal route

NORTHERN SEA ROUTE

Travel time

35 days

Dangers

Icebergs

Travel window

July to November

Container-carrying vessels

One this year

SUEZ CANAL ROUTE

Travel time

48 days

Dangers

Access to Suez Canal under question with upheaval in Egypt

Travel window

Year-round

Container-carrying vessels

17,000 last year

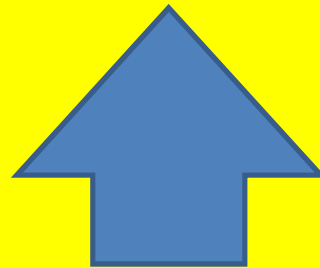


Sources: Northern Sea Route Information Office; National Snow and Ice Data Center; Cosco; Lloyd's List

The Wall Street Journal

COASTAL SECURITY

NATIONAL SECURITY



MARITIME SECURITY



COASTAL SECURITY

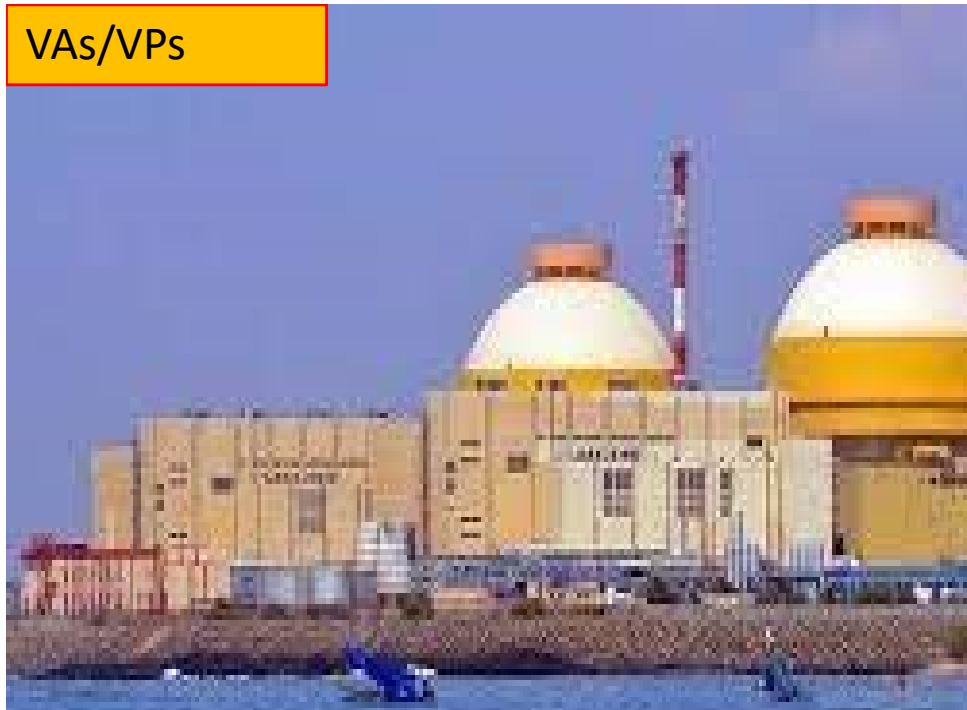
COASTAL SECURITY

➤ **MARITIME SECURITY**

➤ **INTERNAL SECURITY**

➤ **BORDER MANAGEMENT**

VAs/VPs



ISLANDS

OFF SHORE INFRA

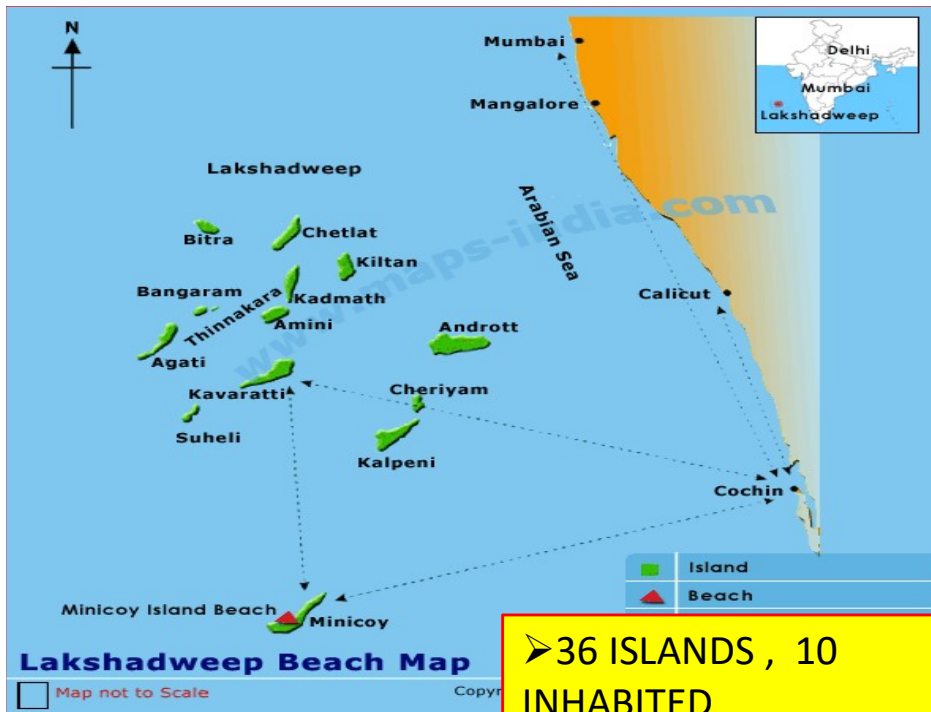


PORTS



- ✓ COAST LINE -7516 KM
- ✓ 9 MARITIME STATES/ 4 U/Ts
- ✓ 12 MAJOR AND 200 INTERMEDIATE & MINOR PORTS
- ✓ ISLAND TERRITORIES-1197
- ✓ EXCLUSIVE ECONOMIC ZONE-2.3 MILLION SQ KM





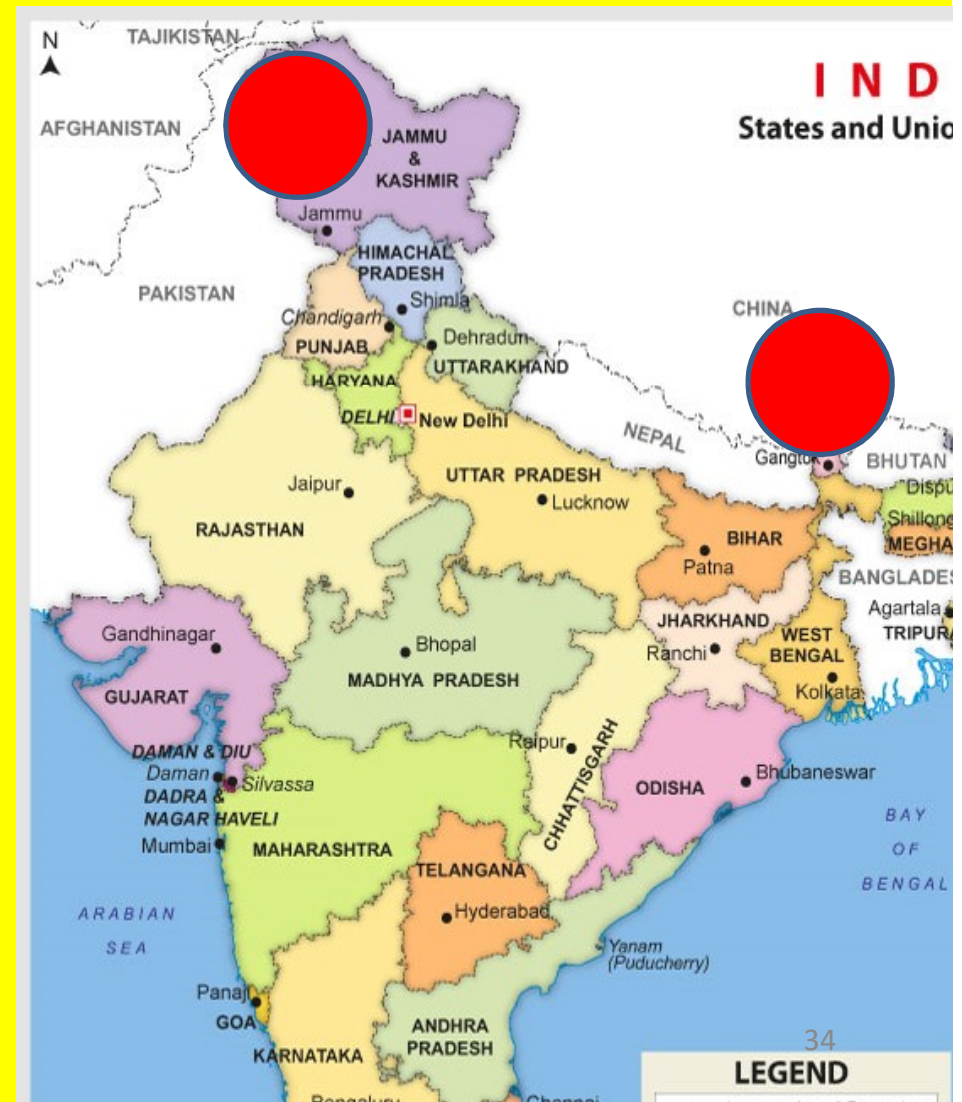
➤ 36 ISLANDS , 10 INHABITED

572 ISLANDS
38 INHABITED



SECURITY ESTABLISHMENT PREOCCUPIED WITH J& K AND NE

- ARMY & BSF
- BORDER FENCING
- 7516 KM COASTLINE RELATIVELY EASIER TO BREACH

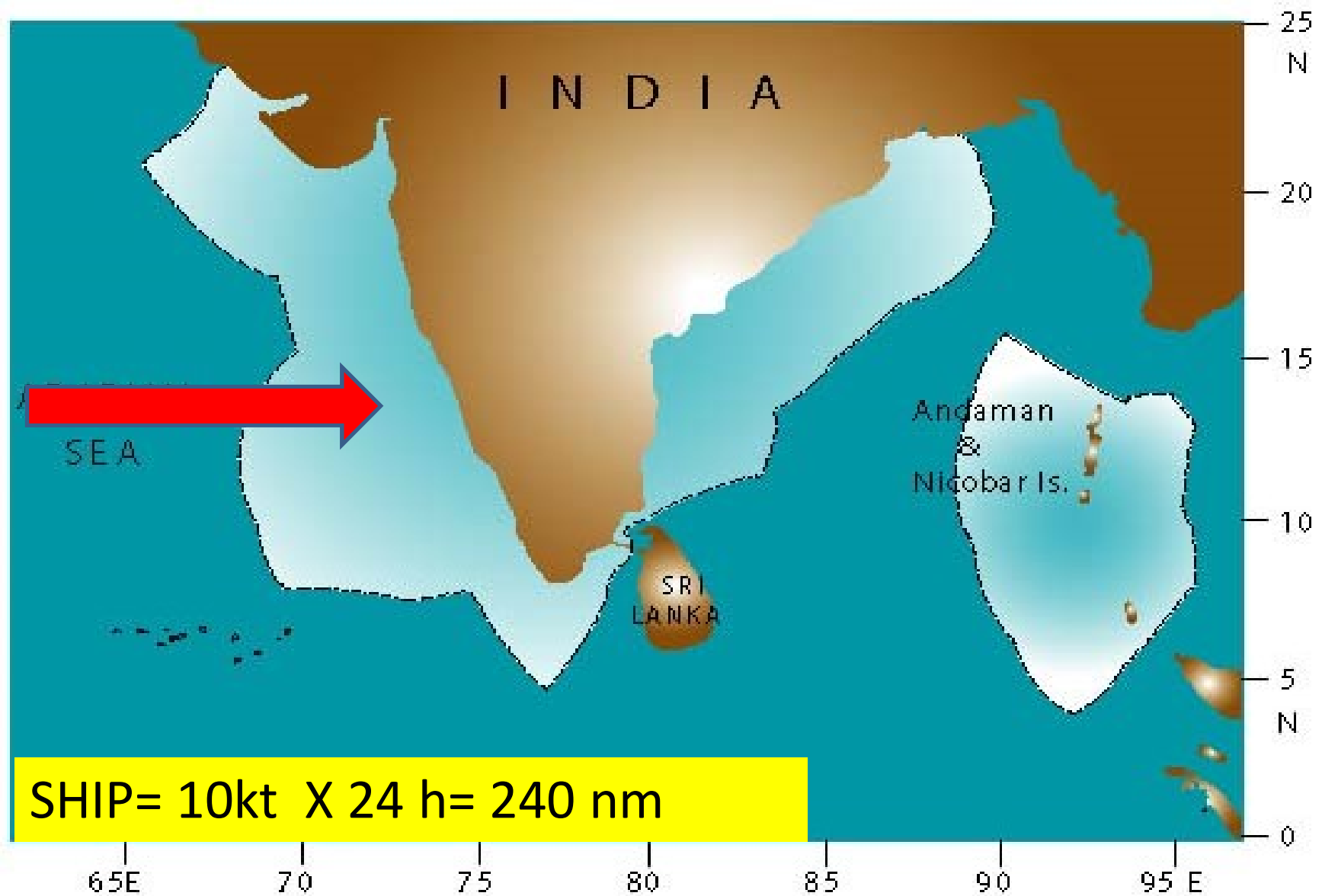


MARITIME MEDIUM

- NO FENCES AT SEA
- SEAS – TRANS-NATIONAL NATURE
- SHIPS –MOBILITY- $10 \text{ KT} \times 24\text{h} = 240 \text{ NM}$ IN ANY DIRECTION

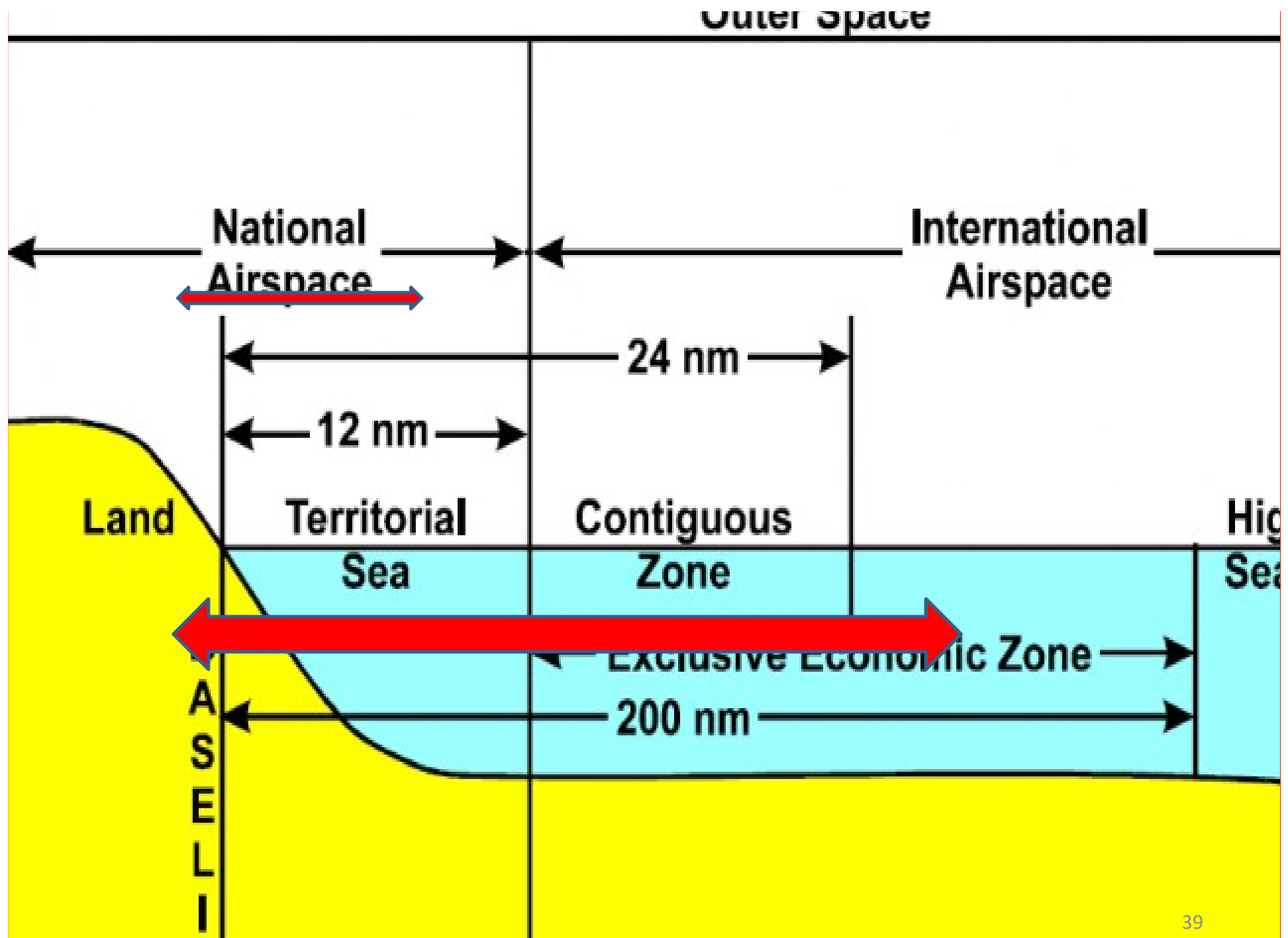


INDIAN EEZ

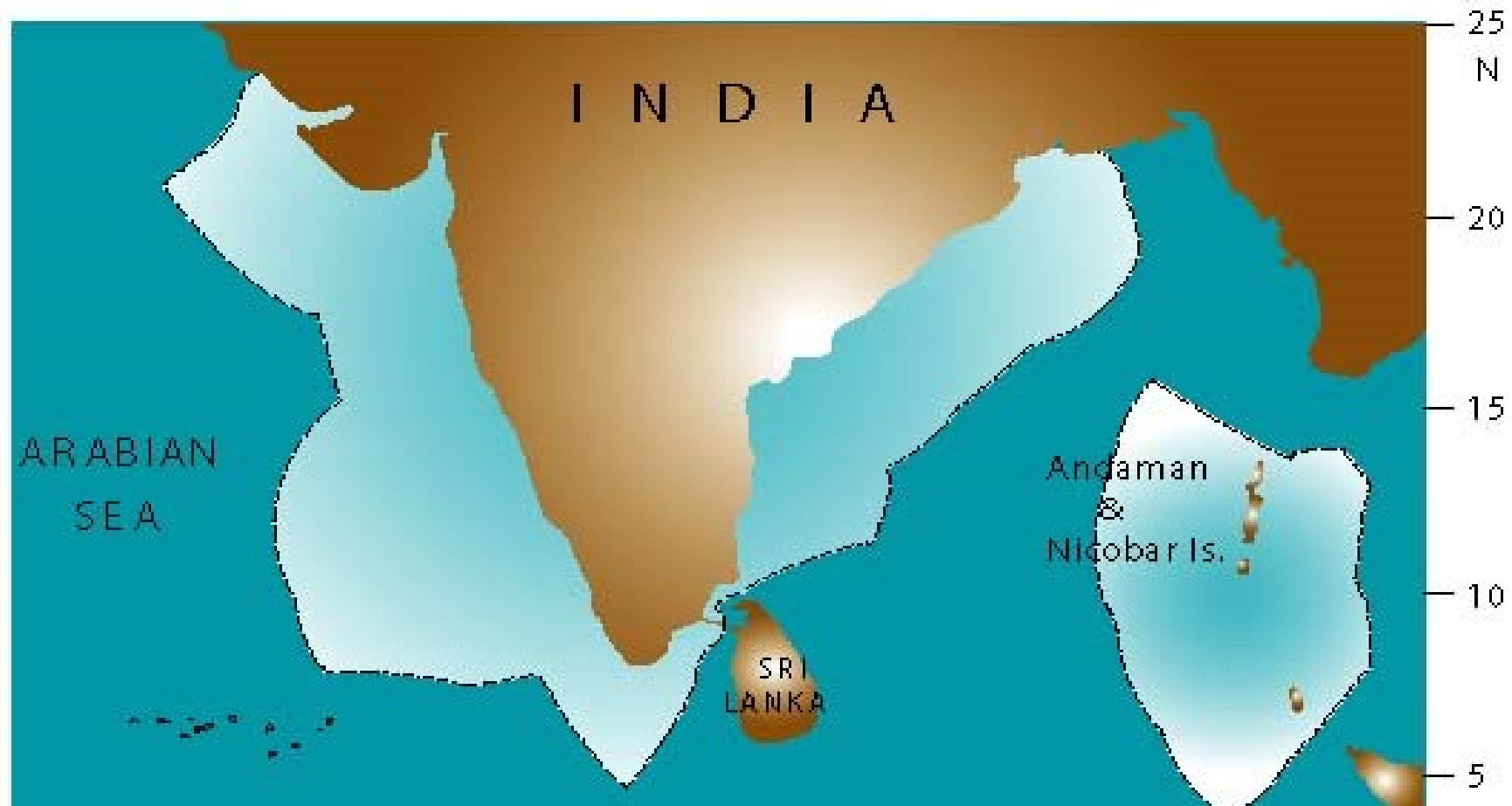


A THIN LINE SEPARATES MARITIME SECURITY &
COASTAL SECURITY – SINCE MEDIUM IS CONTINUOUS

EXCLUSIVE ECONOMIC ZONE



INDIAN EEZ



- EEZ 200 NM
- EXTENSION OF EEZ FROM 200-350 NM IN THE OFFING
- PARALLEL INDIA IN THE WATER
- BLUE ECONOMY



THE BLUE ECONOMY.



uses smart shipping to lessen the impacts on the environment



is inclusive and improves the lives of all



harnesses renewable energy



is based on sustainable fisheries



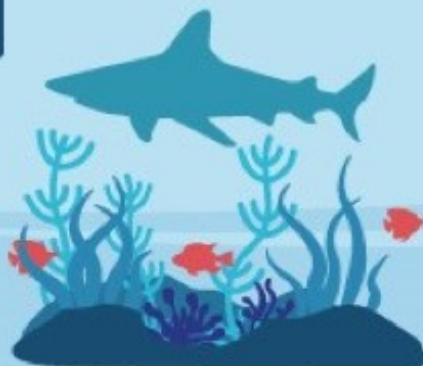
creates jobs, reduces poverty and ends hunger



protects coastal communities from the impacts of climate change



takes action against illegal fishing



conserves marine life and oceans



tackles marine litter and oceans pollution

- NATION'S ECONOMY & MARITIME SECURITY ARE CLOSELY INTERLINKED
- MARITIME SECURITY IS INSURANCE FOR NATIONAL ECONOMY

EEZ-BUZZING WITH ECONOMIC ACTIVITY

- MERCHANT SHIPS
 - NAVAL & COAST GUARD SHIPS
 - FISHING VESSELS
 - DHOWS
 - EXTRA-REGIONAL FORCES
 - RECREATIONAL AND PLEASURE CRAFT
 - OTHER SPECIALIZED VESSELS -
-
- OIL & GAS EXPLORATION & PRODUCTION ACTIVITIES IN OFFSHORE DEVELOPMENT AREA (ODA)
 - VARIOUS TYPES OF RIGS
 - OFF SHORE SUPPORT VESSELS
 - SEISMIC SURVEY VESSELS



OVER 160,000 MERCHANT VESSELS PASS THROUGH INDIAN OCEAN IN A YEAR



WESTERN FLEET



COAST GUARD – BEAT CONSTABLE

EXTRA REGIONAL FORCES IN IOR



➤ **120 SHIPS FROM 20 COUNTRIES AT ANY ONE TIME**

➤ AFGHANISTAN

➤ IRAQ

➤ SYRIA

➤ ISIS

➤ PIRACY OFF SOMALIA

FISHERIES



FISHING VESSELS

- OVER 3 LAKHS REGISTERED VESSELS
- TRADITIONAL, MOTORIZED ,MECHANISED BOATS
- VERY FEW DEEP SEA FISHING CRAFT
- LARGE NO OF UNREGISTERED VESSELS- SECURITY ISSUE
- POSITIVE IDENTIFICATION AT SEA – REMAINS A PROBLEM
- More later....

DHOWS



DHOWS

- TRADITIONAL CRAFT
- BUILT ALONG WEST COAST –MANDVI,RATNAGIRI,BEYPORE
- UP TO 2000 TONs
- CARRY ONION, POTATOES ,LIVE STOCK TO WEST ASIA & NORTH AFRICA
- BUILDING MATERIAL AND FOOD TO LAKSHWADEEP ISLANDS
- SOME REPORTEDLY INVOLVED IN NEFARIOUS ACTIVITIES - PIRACY OFF SOMALIA – CARRYING WEAPONS FOR WARLORDS
- SOME THEMSELVES PIRATED
- POTENTIAL FOR ILLEGAL ACTIVITIES –ESPECIALLY ON RETURN TRIPS

IN EEZ- OFF SHORE DEVELOPMENT AREA



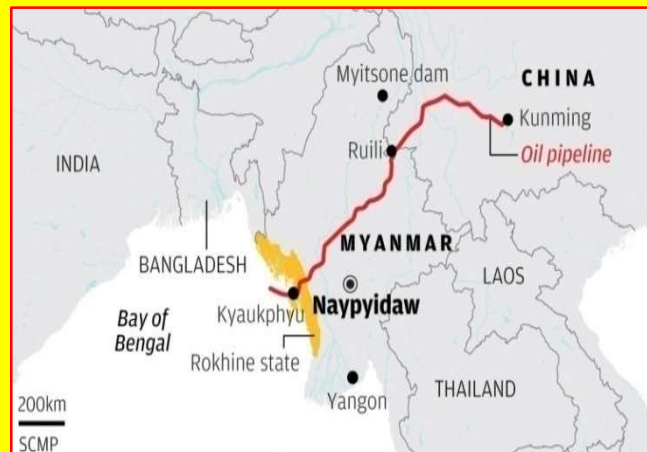
MARITIME NEIGHBOURS

MARITIME NEIGHBOURHOOD

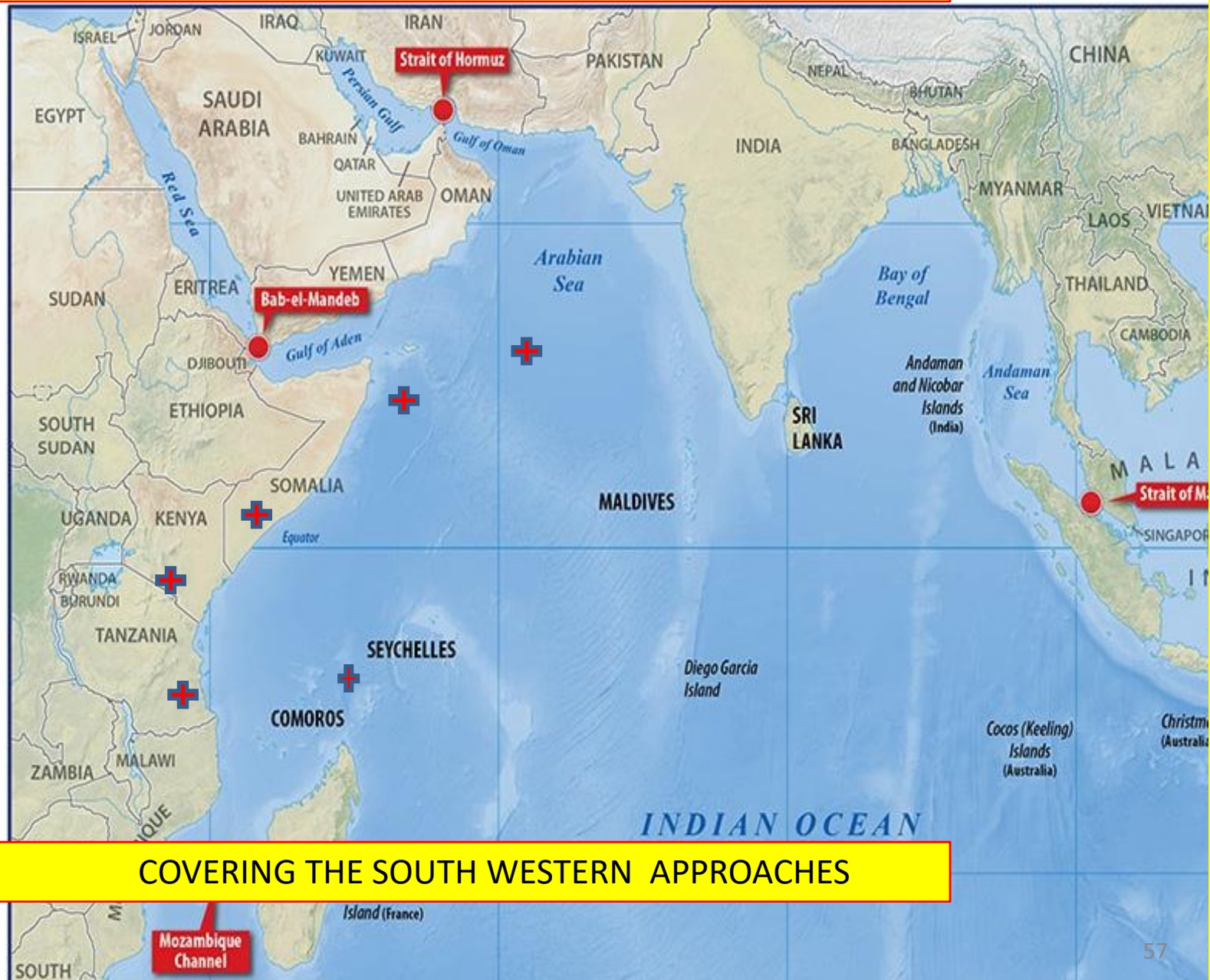
- PAKISTAN ,
 - SRI LANKA,
 - MALDIVES,
 - BANGLADESH
 - MYANMAR,
 - THAILAND,
 - INDONESIA
-
- INTERNATIONAL MARITIME BOUNDARY LINE(IMBL) RESOLVED WITH ALL EXCEPT PAKISTAN
 - INTERNATIONAL MARITIME BOUNDARY LINE (IMBL) WITH BANGLADESH RESOLVED PEACEFULLY IN 2014 .

CHINA – INDIAN OCEAN NEIGHBOUR

- **STRING OF PEARLS –GWADAR ,KYAUKPHU,HAMBANTOTA,CHITTAGONG**
- **BELT & RED INITIATIVE**
- **HAMBANTOTA – CHINA - -99 YEARS LEASE**
- **COLOMBO PORT CITY PROJECT& EAST CONTAINER TERMINAL**
- **OPERATIONAL CONTROL OF GWADAR -40 YEARS**
- **CPEC –GWADAR**
- **CMEC- KYAKPKHU – MYANMAR**
- **DJIBOUTI- FIRST CHINESE OVER SEAS BASE- 300 M BERTH FOR AIRCRAFT CARR**



MEA –INDIAN OCEAN REGION DIVISION



SEYCHELLES

ASSUMPTION ISLAND



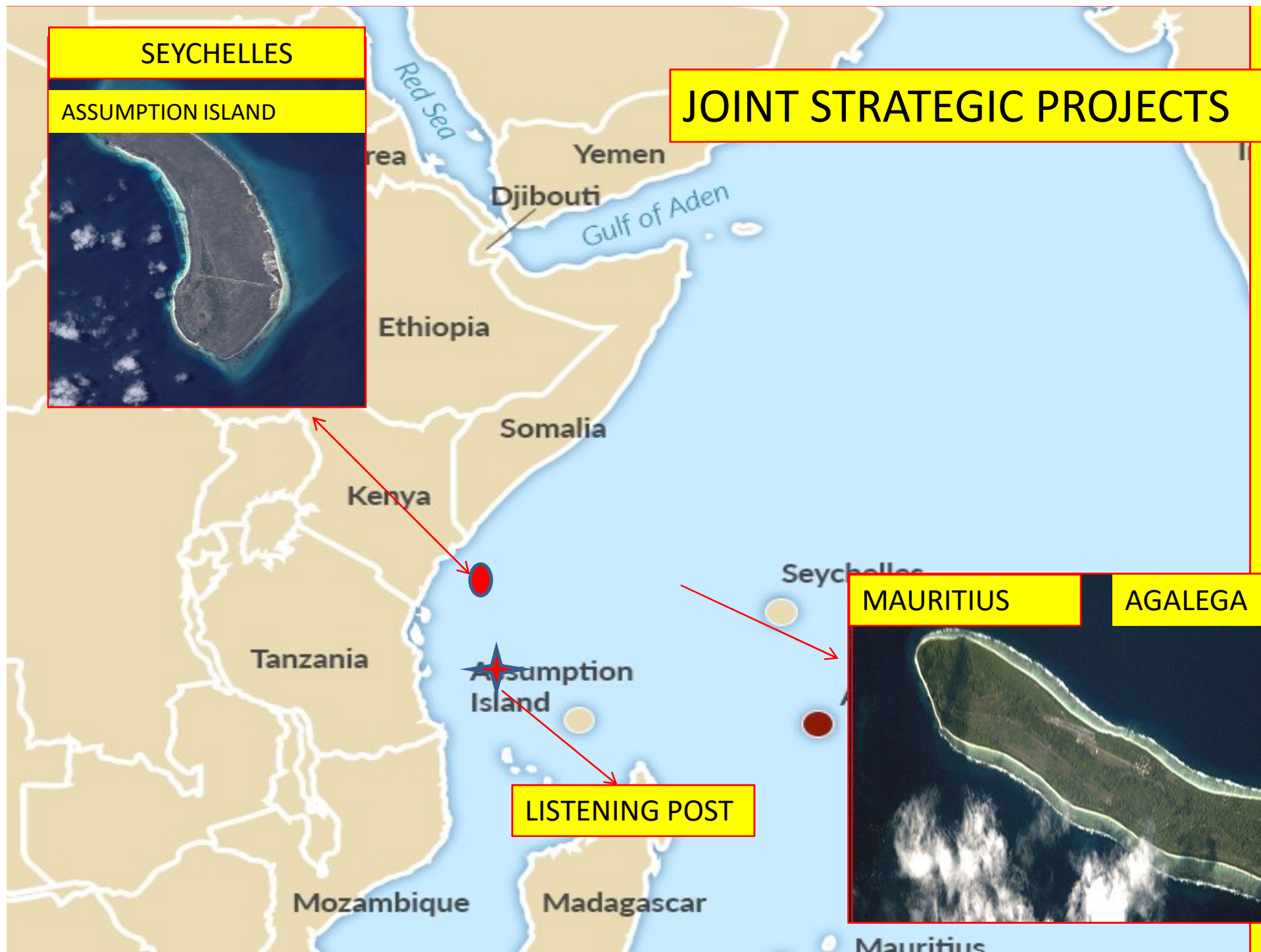
JOINT STRATEGIC PROJECTS

MAURITIUS

AGALEGA



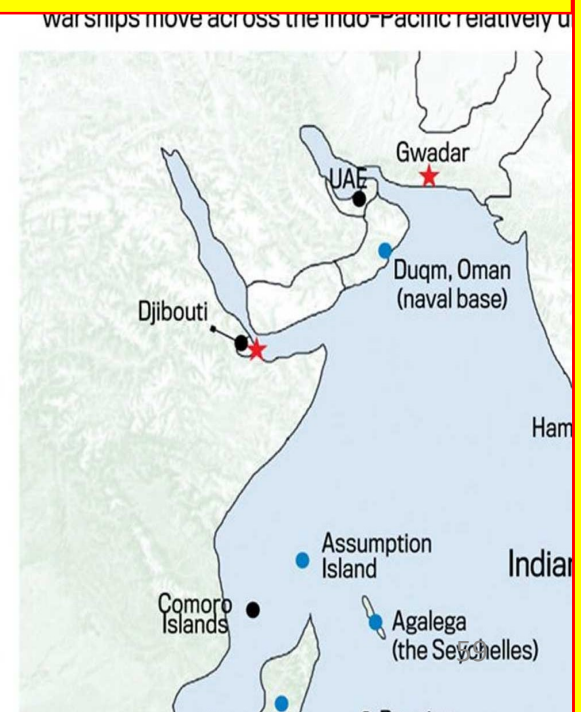
LISTENING POST



FRANCE –INDIAN OCEAN POWER

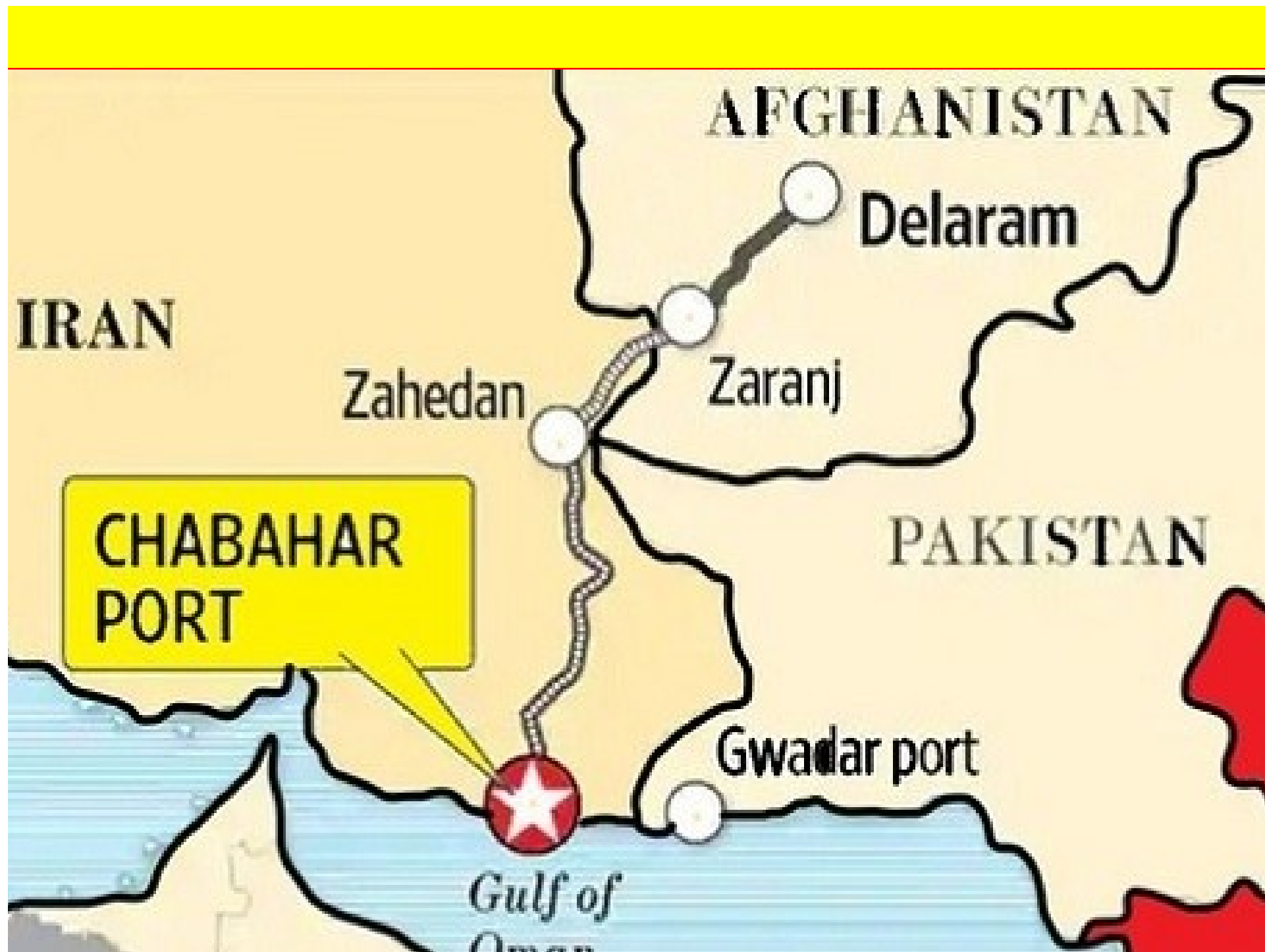
- IOR TERRITORIES / BASES - DJIBOUTI, REUNION ISLAND, COMOROS ISLAND, MAYOTTE
- LOGISTIC SUPPORT AGREEMENT (LSA) SIGNED
- MUTUAL ACCESS TO BASES
- JOINT DEVELOPMENT OF MARITIME SURVEILLANCE SATELLITE – SINDHU NETRA – MARITIME DOMAIN AWARENESS

FRENCH BASES IN IOR (MARKED IN BLACK)

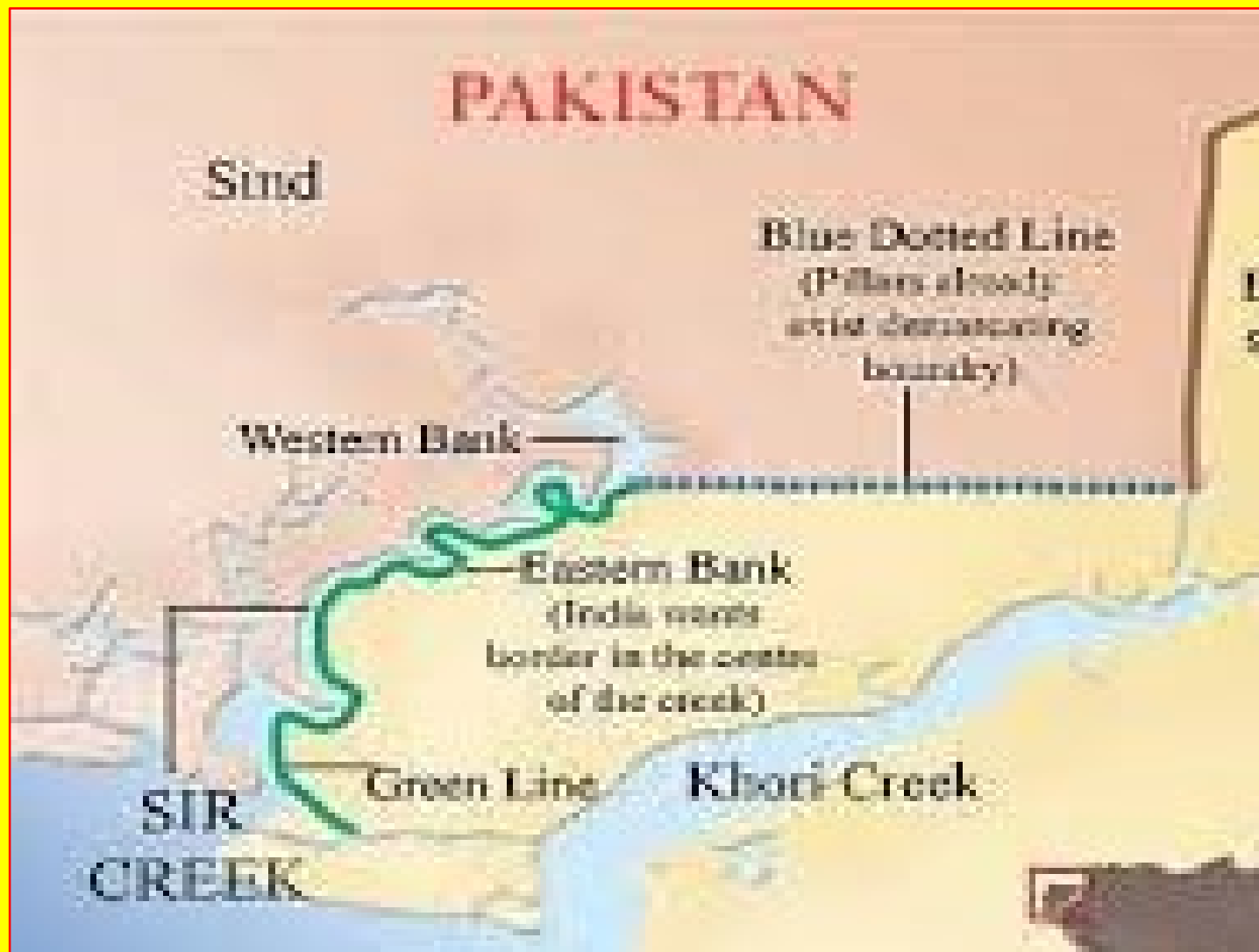


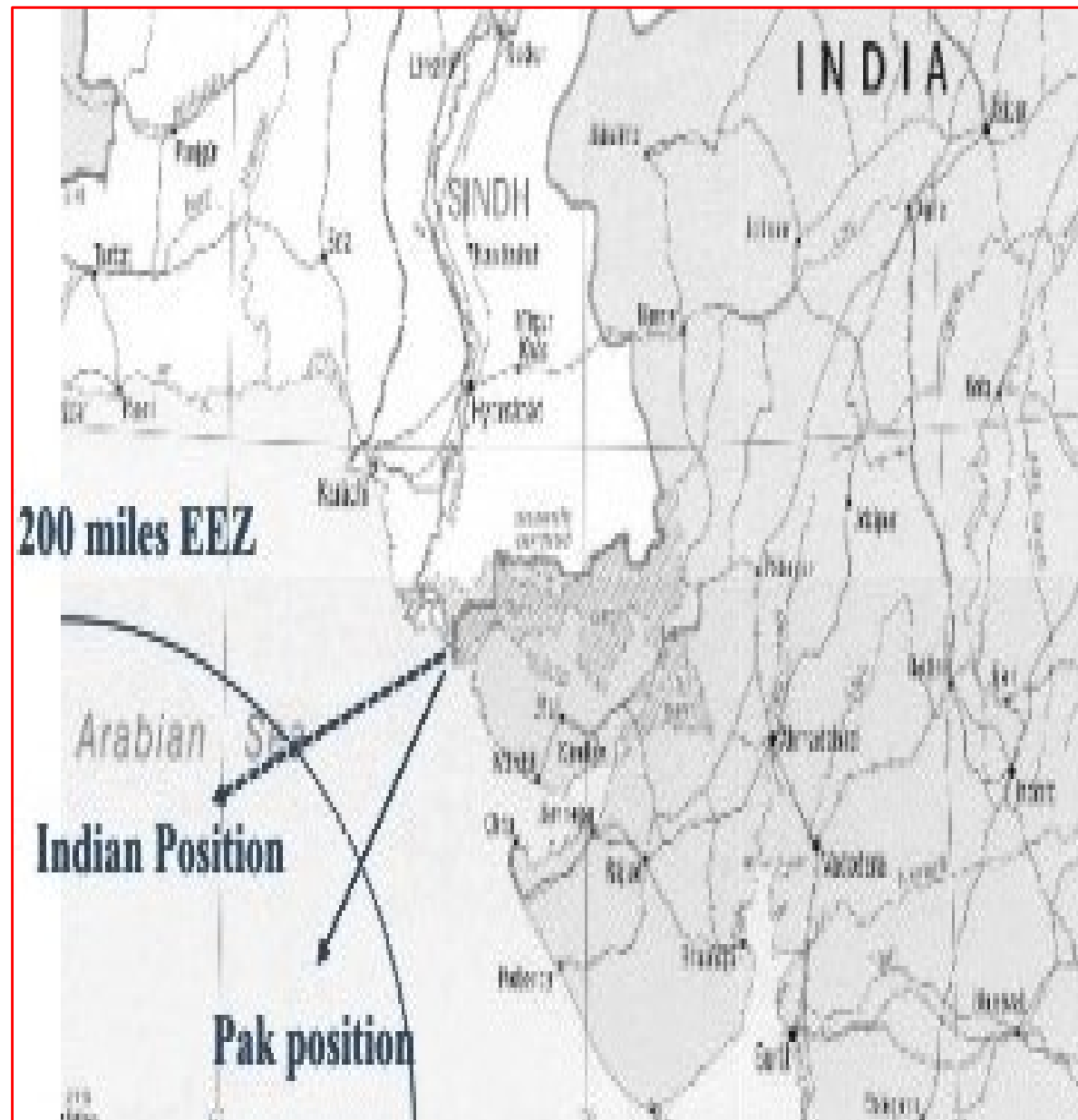
TO INDIA'S WEST











ACTIVITIES ALONG GUJARAT –PAK BORDER

❖ ESPIONAGE

❖ INFILTRATION OF PERSONNEL

❖ TRANSFER OF ARMS AND AMMUNITION

❖ DRUG TRAFICKING

❖ FAKE CURRENCY RACKET

PAKISTANI BOAT BLOWS UP OFF PORBANDAR 31
DEC 2014



PAKISTANI BOATS OFTEN FOUND
ABANDONED IN PLACES SUCH AS
'HARAMI NALA' IN SIR CREEK

PAKISTAN

Keti
Bunder

GUJARAT

Bhuj •

Gandhidham •

Kandla Port

Jamnagar •

**Harami
Nala**



MALDIVES

- POLITICAL UPS AND DOWNS IN MALDIVES – AFFECTED INDIA . CHINA HAS BENEFITTED MORE DUE DEEP POCKETS
- ‘INDIA OUT’ CAMPAIGN RECENTLY
- SAUDI ARABIA –SPREADING WAHABISM IN MALDIVES
- PAKISTAN RADICALIZING MALDIVES
- RECRUITMENT FOR ISIS
- CHINA IN POSSESSION OF SOME ISLANDS – **FEYDOO FINHOLU**

SRI LANKA



ECONOMIC REFUGEES

INDIA – SRI LANKA

- LOAN/ CREDIT LINE
- CURRENCY SWAP
- PETROLEUM
- FOOD
- MEDICINES
- FERTILIZERS

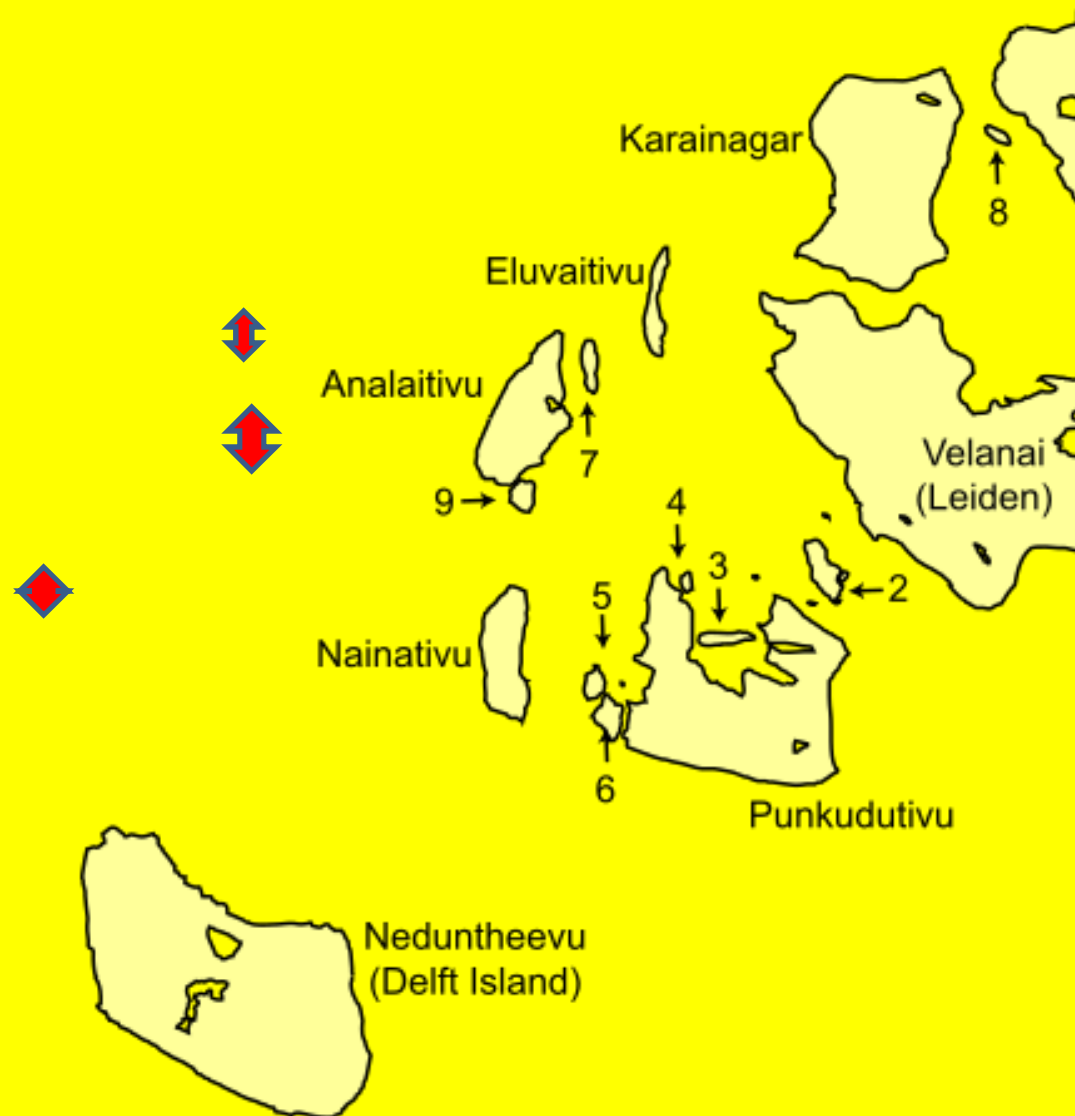
PALK BAY FISHING WARS



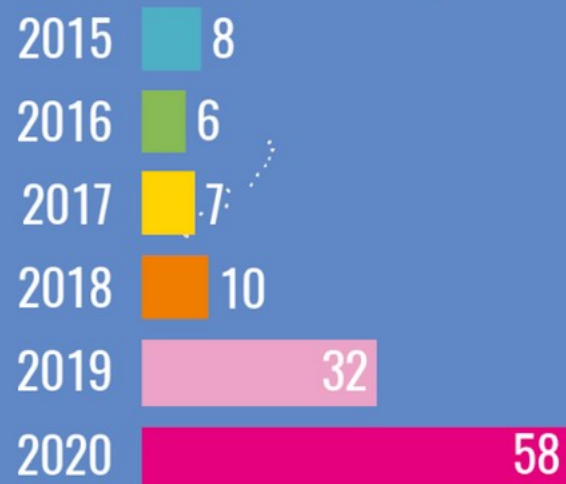
- GOVT HAS TOLD SUPREME COURT THAT **KACCHATIVU** WAS NEVER CEDED TO SRI LANKA .
- INDIAN SIDE OF PALK BAY OVERFISHED
- LEGALLY INDIAN FISHERMEN CAN NOT CROSSOVER THE IMBL TO FISH IN SRI LANKAN WATERS
- **POTENTIAL TO FLARE UP INTO BILATERAL DIPLOMATIC PROBLEMS .**

➤ CHINESE EFFORTS
➤ SEA CUCUMBER FARMING

1. Chirutivu
2. Kanantivu
3. Karaitivu
4. Palaitivu
5. Kurikadduvan
6. Naduturitti
7. Paratitivu
8. Thorattapputti
9. Puliyantivu



SEA CUCUMBER —POACHING



 **KATAPULT**

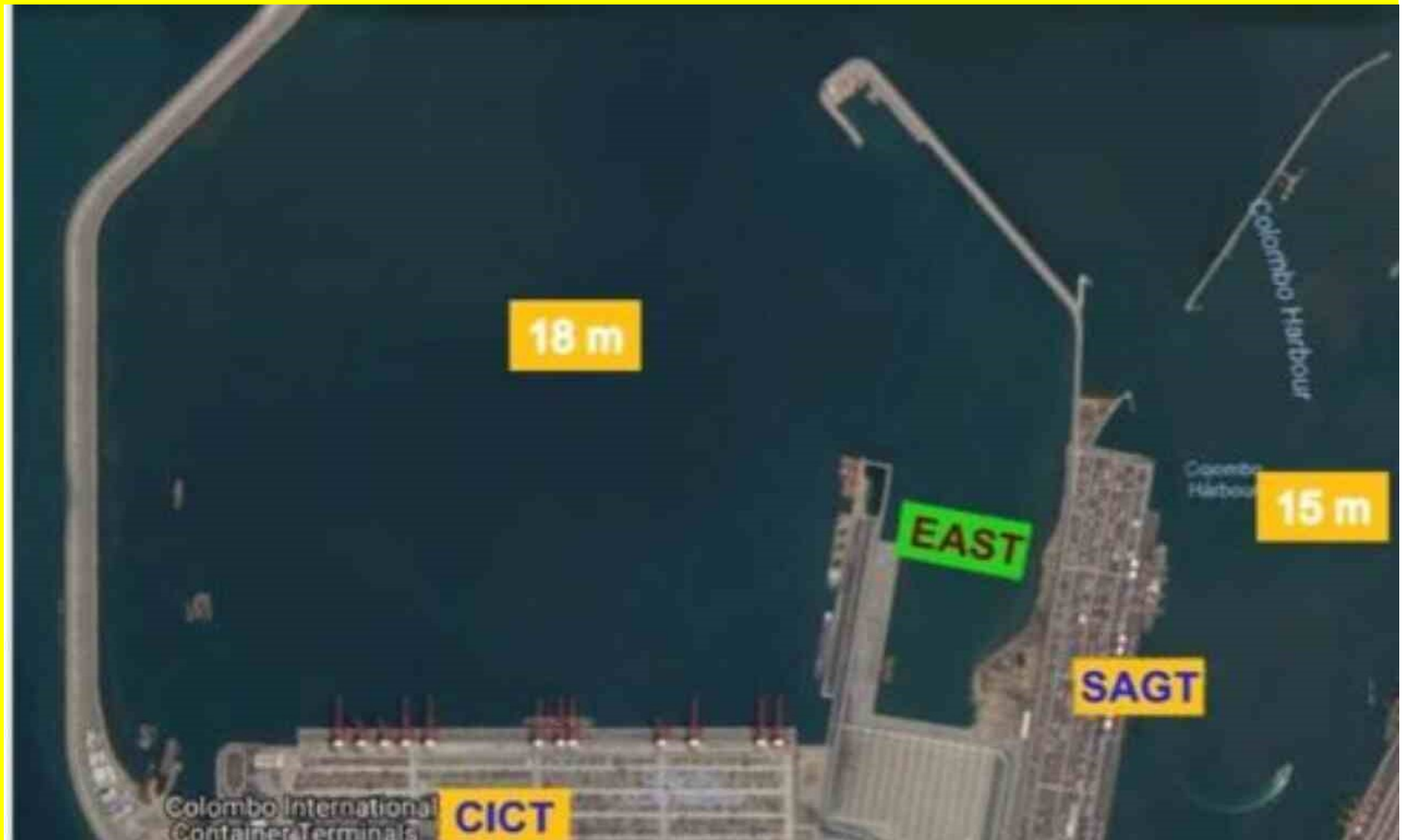
Quelle: Bondaroff (2021)  2021 KATAPULT 





COLOMBO SOUTH CITY PROJECT





WEST CONTAINER TERMINAL –COLOMBO

ADANI GROUP

700 MILLION US\$

1.4 KM

DEPTH 20 METRES





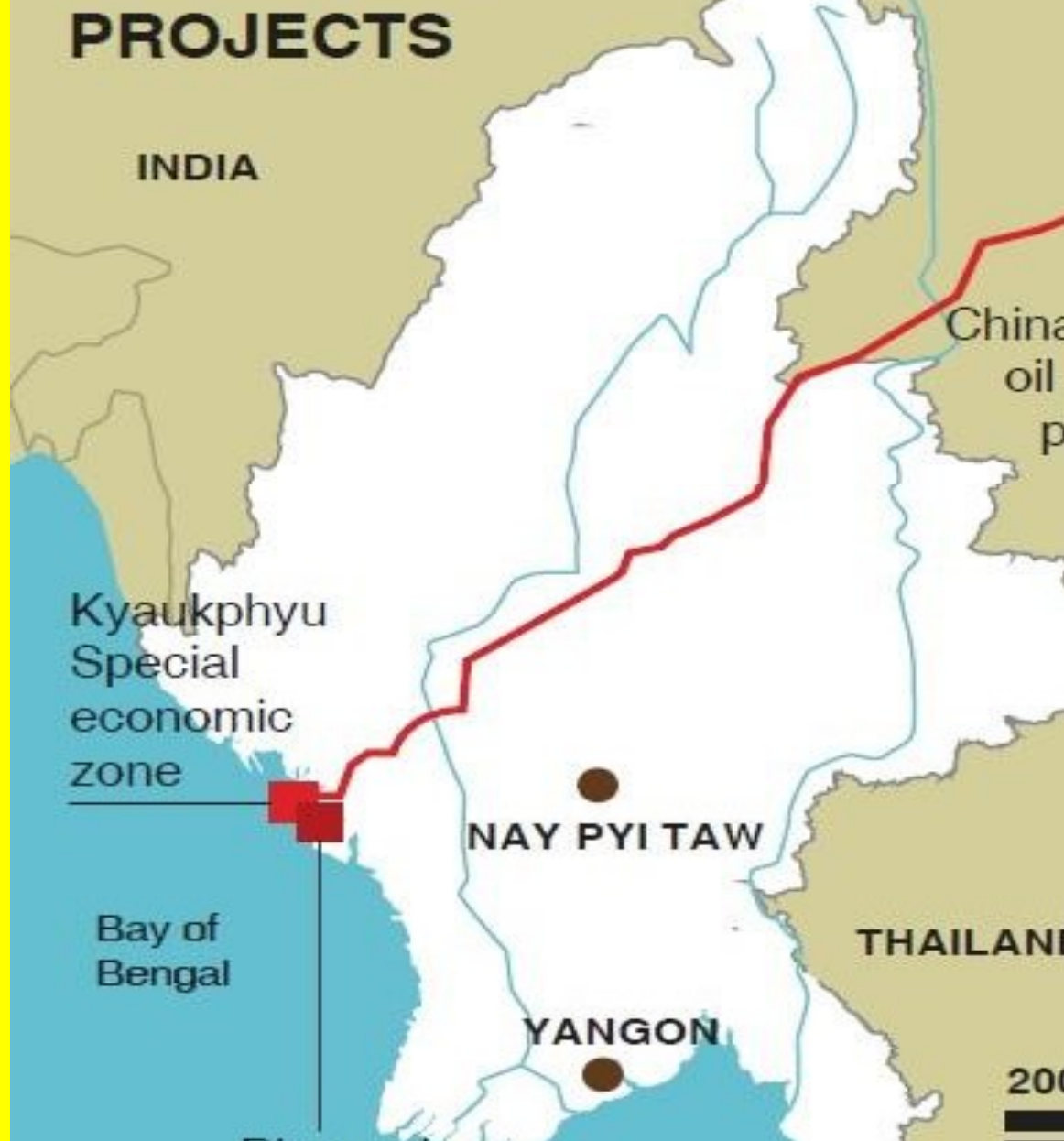


EASTER BOMBINGS IN SRI LANKA

- NATIONAL TAWHEED JAMAAT -NTJ
- ISIS LINK
- INDIA CONNECTION
- NIA INVESTIGATION –RAIDS IN COIMBATORE
- CYLINDER BLASTS IN COIMBATORE



CHINA –MYANMAR ECONOMIC CORRIDOR (CMEC)







Myanmar Navy Inducts Ex-Indian Na Kilo Submarine INS Sindhuvir









CHINA –BANGLADESH

➤ CHINA -2 MING CLASS S/M

➤ CHINA BUILDING SUBMARINE BASE AT KUTUBDIA

➤ CHITTAGONG PORT PROJECT



CHITTAGONG PORT PROJECT



THE SHORT CUT TO NORTH EAST







EXPLOSION -CAFÉ AT DHAKA

JAMAAT UL –MUJHADEIN BANGLADESH (JMB)

ISLAMIC STATE

AL QAEEDA

ANSARULLAH BANGLA TEAM

BAY OF BENGAL

- ✓ DRUG SMUGGLING –GOLDEN TRIANGLE
- ✓ GUN RUNNING
- ✓ POACHING- SEA CUCUMBER – BY MYANMAR FISHERMEN IN A& N ISLANDS

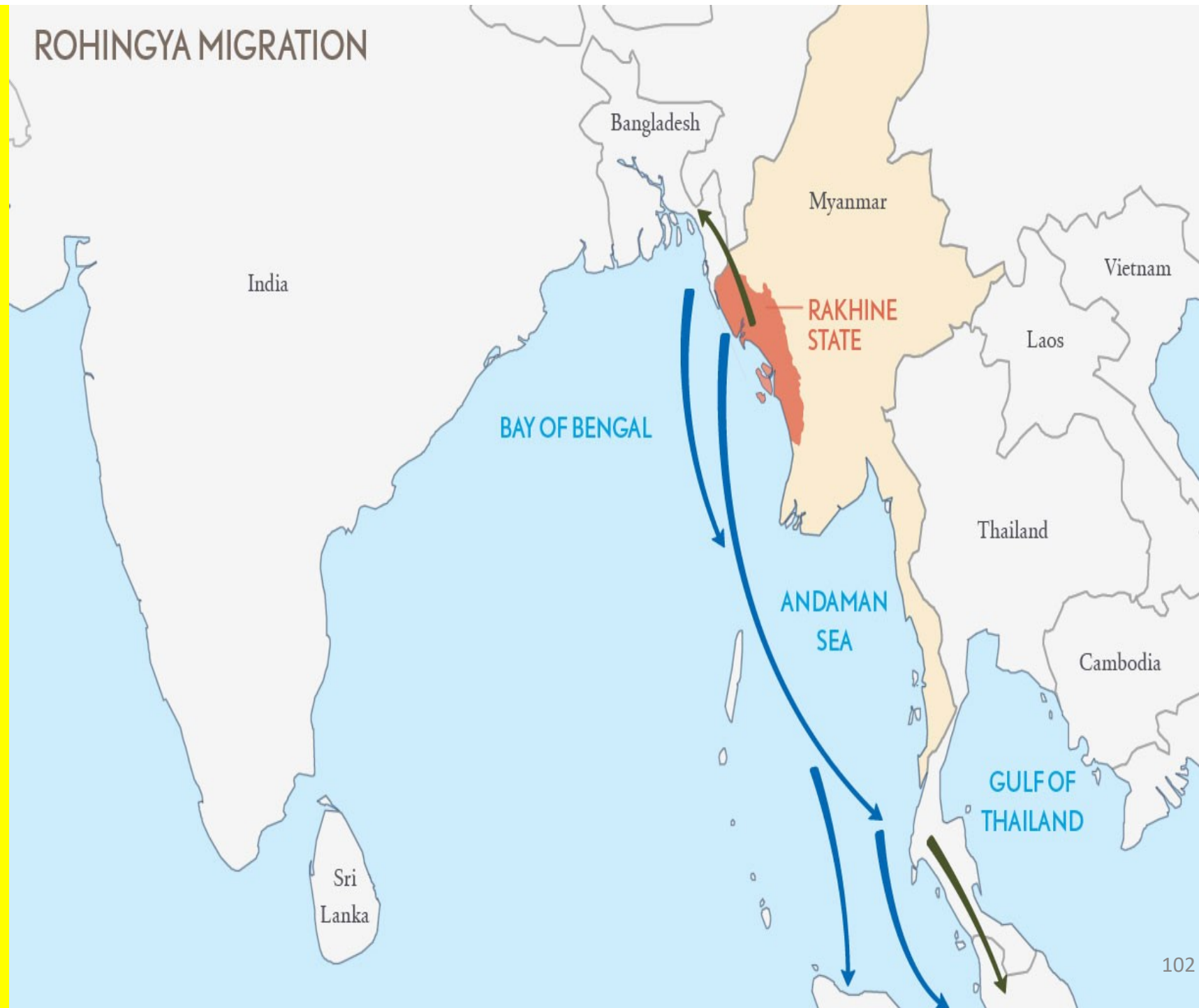


- ✓ ROHINGYA PROBLEM

ROHINGYA CRISIS - IMPLICATIONS

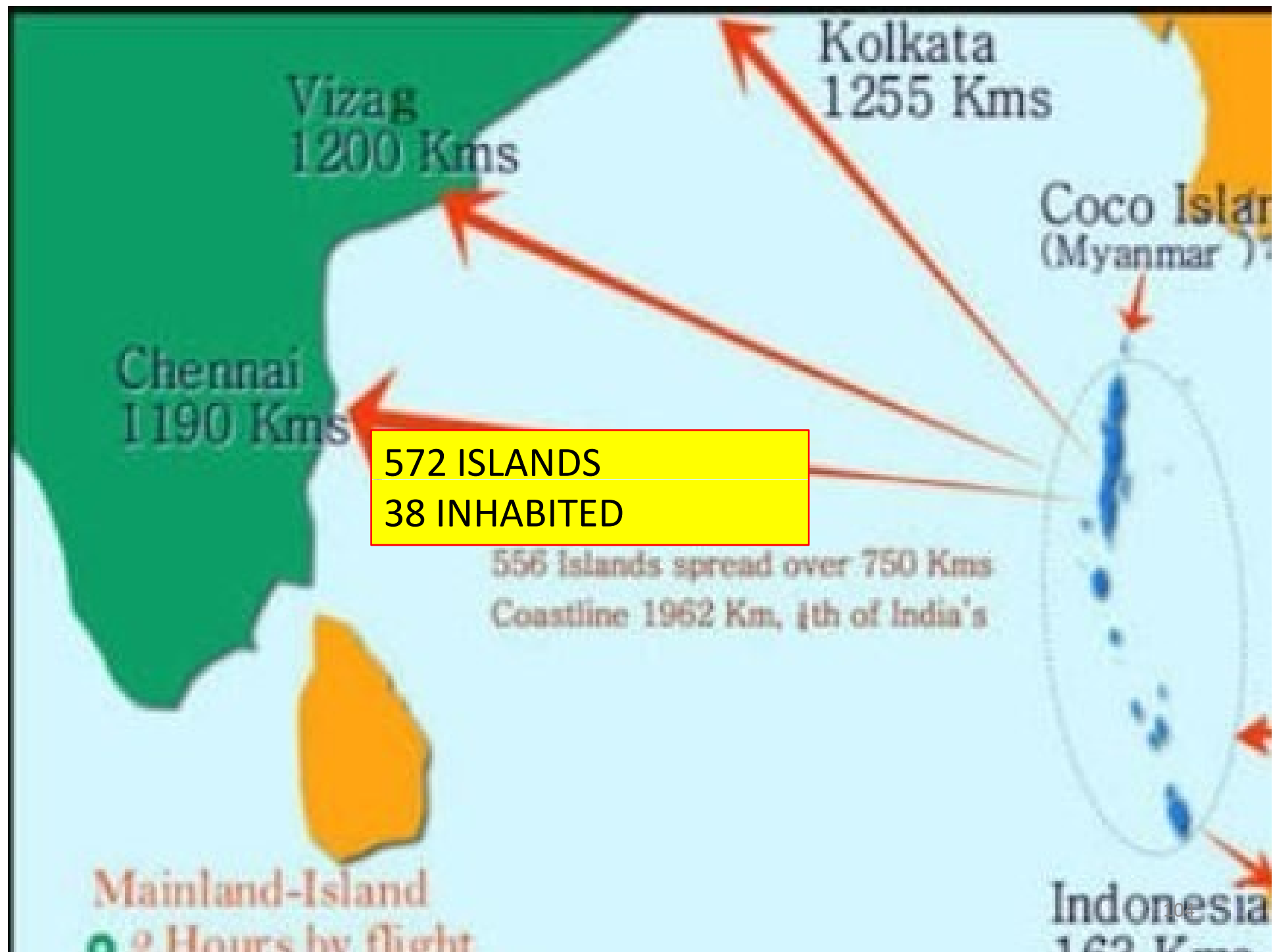
- 40,000 ROHINGYAS IN INDIA
- LINK UP WITH PAKISTANI TERRORISTS
- LINK UP WITH NORTH EAST INSURGENTS, RED CORRIDOR

ROHINGYA MIGRATION



**FEB 2021- INDIAN COAST GUARD INTERCEPTS 81 ROHINGYAS OFF
ANDAMAN& NICOBAR ISLANDS**



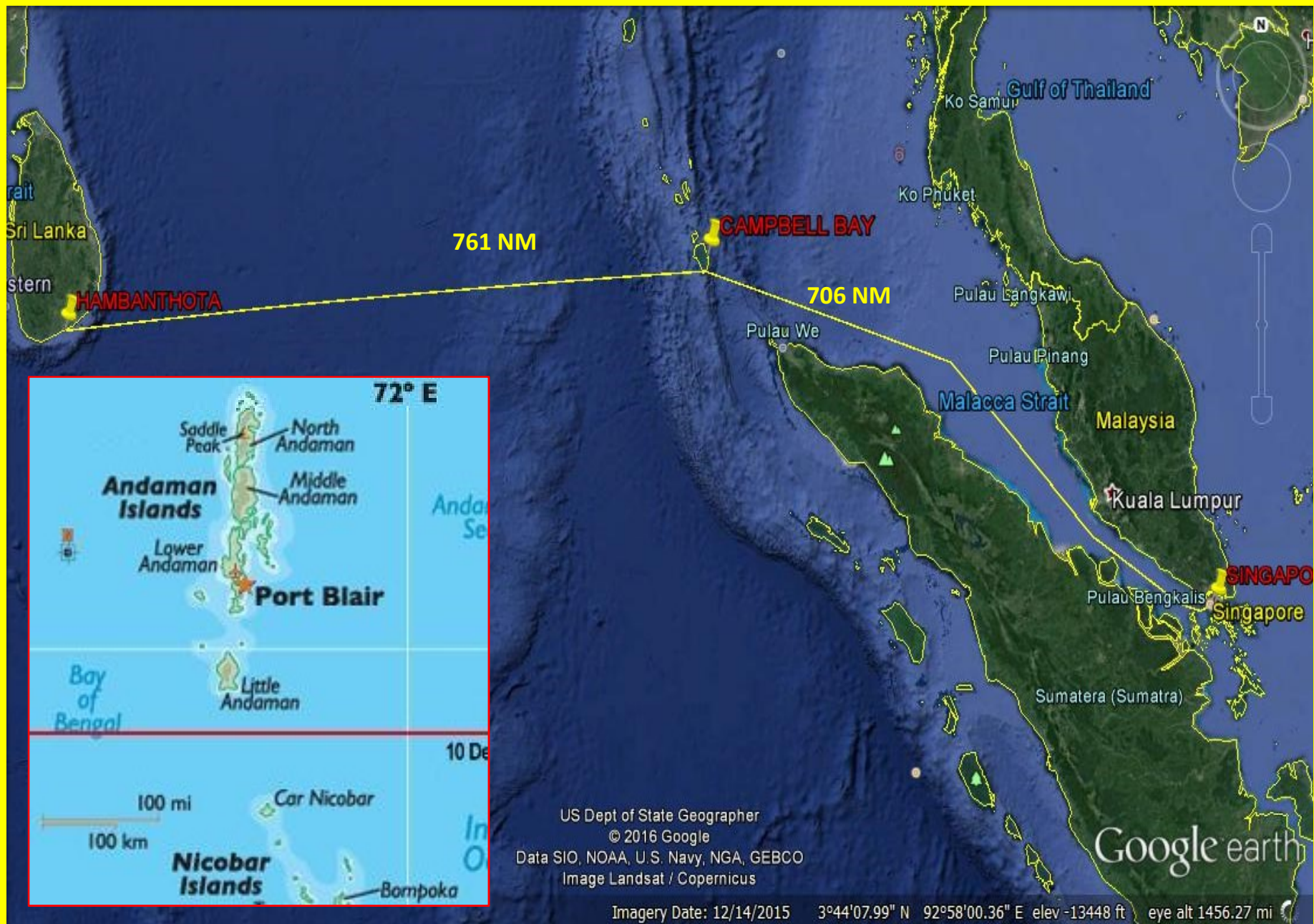




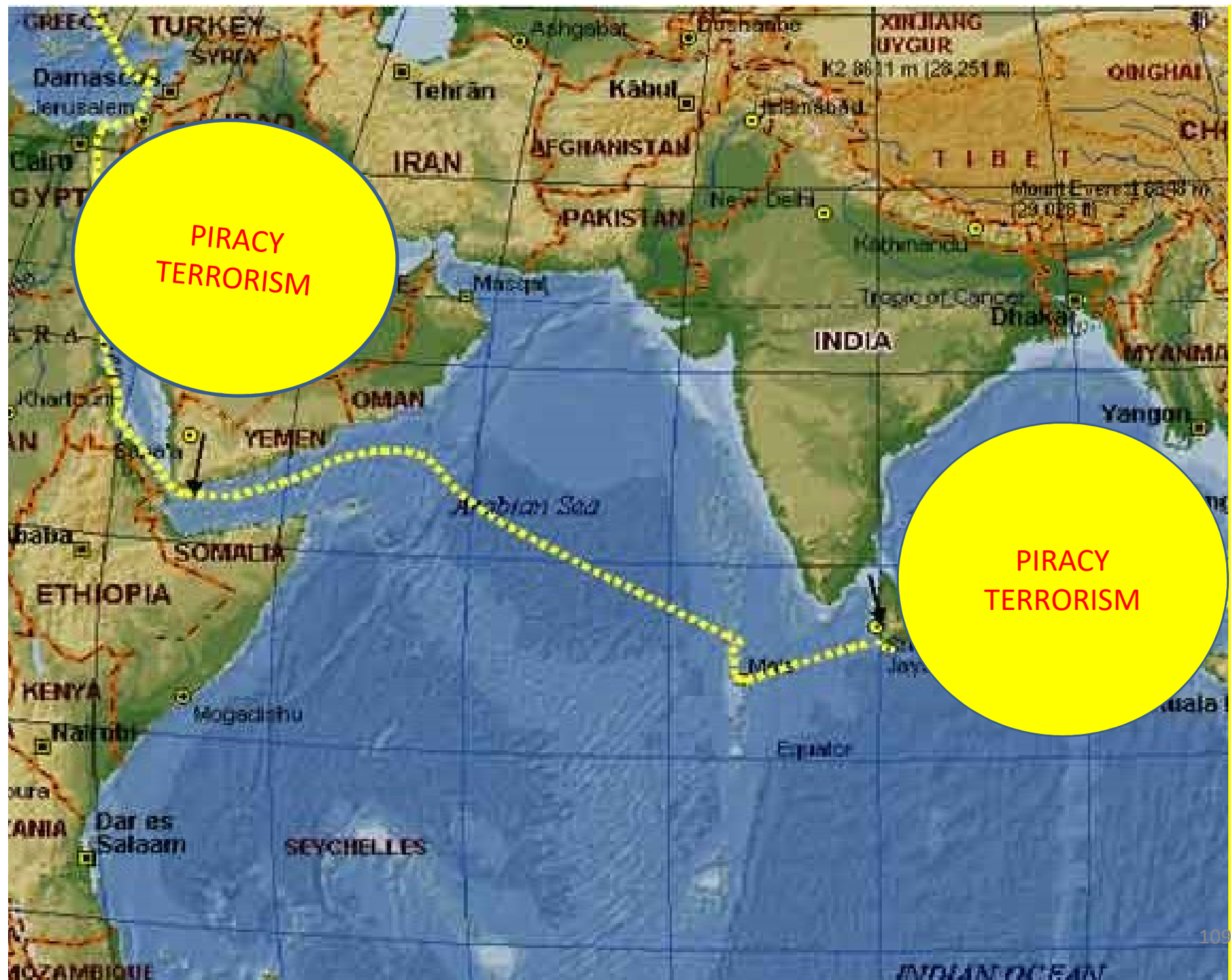
GREAT NICOBAR ISLAND

- CONTAINER TRANSHIPMENT TERMINAL
- BUNKERING /SHIP REPAIR
- FREE TRADE ZONE
- POWER PLANT
- INTERNATIONAL AIR TERMINAL

GREAT NICOBAR ISLAND- PIT STOP



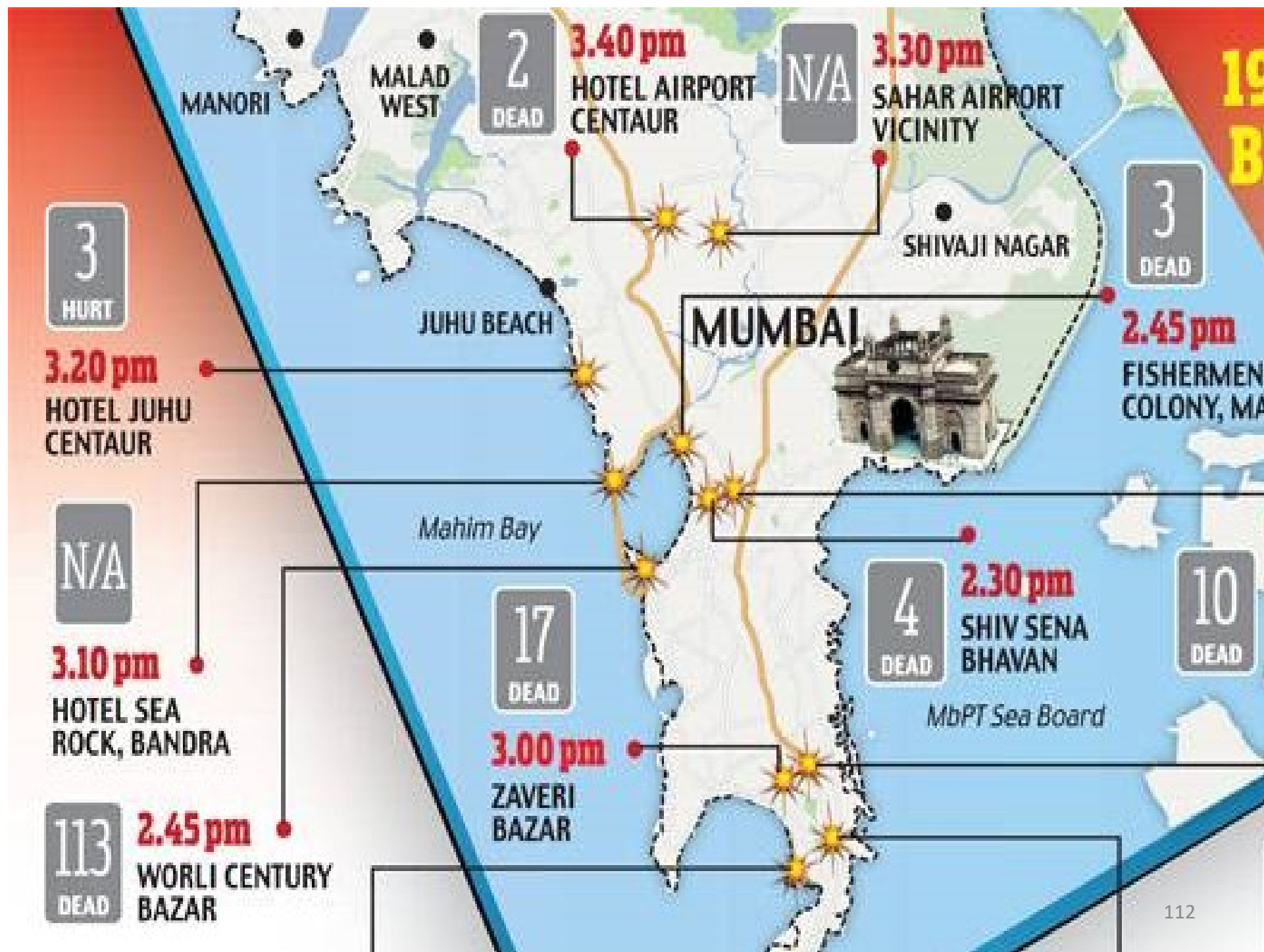
THREATS



ASYMMETRIC THREATS AT SEA

- MARITIME TERRORISM 
- MARITIME PIRACY
- ILLEGAL ,UNREPORTED & UNREGULATED FISHING (IUU)
- DRUG TRAFFICKING
- ILLEGAL MIGRATION
- PEOPLE SMUGGLING
- SMUGGLING OF CONTRABAND
- POACHING
- GUN RUNNING
- NARCO-TERRORISM
- MARITIME CYBER CRIMES

MARITIME TERRORISM





26/11



GEMINI



KUBER¹¹³

TROUBLED NEIGHBOURHOOD

PAK SPONSORED TERRORISM

❖ MALDIVES

❖ SRI LANKA

❖ BANGLADESH

❖ AFGHANISTAN – TALIBAN, AL QAEEDA, HAQQANI NET WORK

TERRORIST GROUPS IN WEST ASIA & SOMALIA

- **AL QAEEDA**
- **TALIBAN**
- **LASHKAR**
- **JEM**
- **AL SHABAB TERRORISTS**
- **HOUTHİ REBELS**

E

TERRORIST GROUPS IN SOUTH EAST ASIA

- **ABBU SAYAFF GANG (ASG)**
- **MORO ISLAMIC LIBERATION FRONT (MILF)**
- **JEMIAH ISLAMIAH (JI)**

➤ ALL MOST ALL TERRORIST ORGANIZATIONS NOW HAVE SEA GOING SKILLS

➤ NUMEROUS MARITIME TRAINING CENTRES ALL OVER THE WORLD INCLUDING INDIA

➤ GPS AND SATCOM SETS HAVE MADE THING EASIER



- POST REVOCATION OF ARTICLE 370-
- CNS ADMIRAL KARAMBIR SINGH
 - INCREASED TERRORISM THREAT
 - JEM RAISED MARITIME WING
 - TRAINING FROGMEN FOR UNDER WATER ATTACKS

new threats ...

DRONE THREAT

ATTACK ON SRINAGAR AIR FORCE BASE

DRUGS AND WEAPONS DROPPED IN PUNJAB



TURKISH DRONE -
BAYRAKTAR TB2 -



- SWARM OF AERIAL DRONES
- SWAMP AIR DEFENCES



IRAN / HOUTHİ REBELS ATTACK - ON SAUDI ARABIAN PORTS & OIL FACILITIES



KAMIKAZE DRONE



UNMANNED SURFACE VEHICLE



SWARM OF SURFACE DRONES



OUR STRATEGIC CARGO & MARITIME TERRORISM IN WEST ASIA

INDIA'S TRADE - 95% BY VOLUME AND 72% BY VALUE GOES ACROSS THE SEAS

80% OF CRUDE IMPORTED -WEST ASIA, WEST AFRICA ...



- IRAN & YEMEN-TARGETTING SAUDI ARABIA

- SHADOW WAR BETWEEN ISRAEL & IRAN

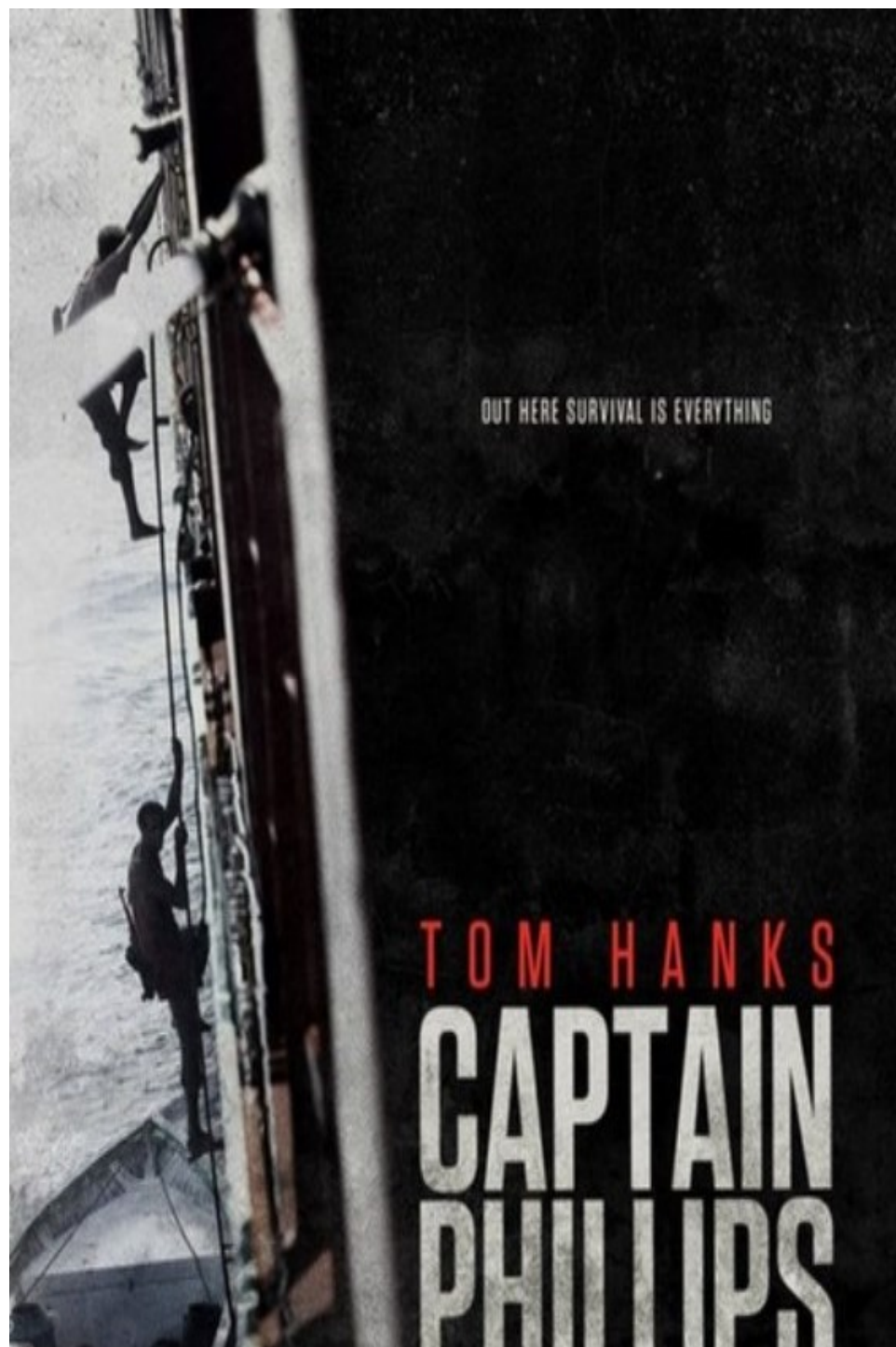




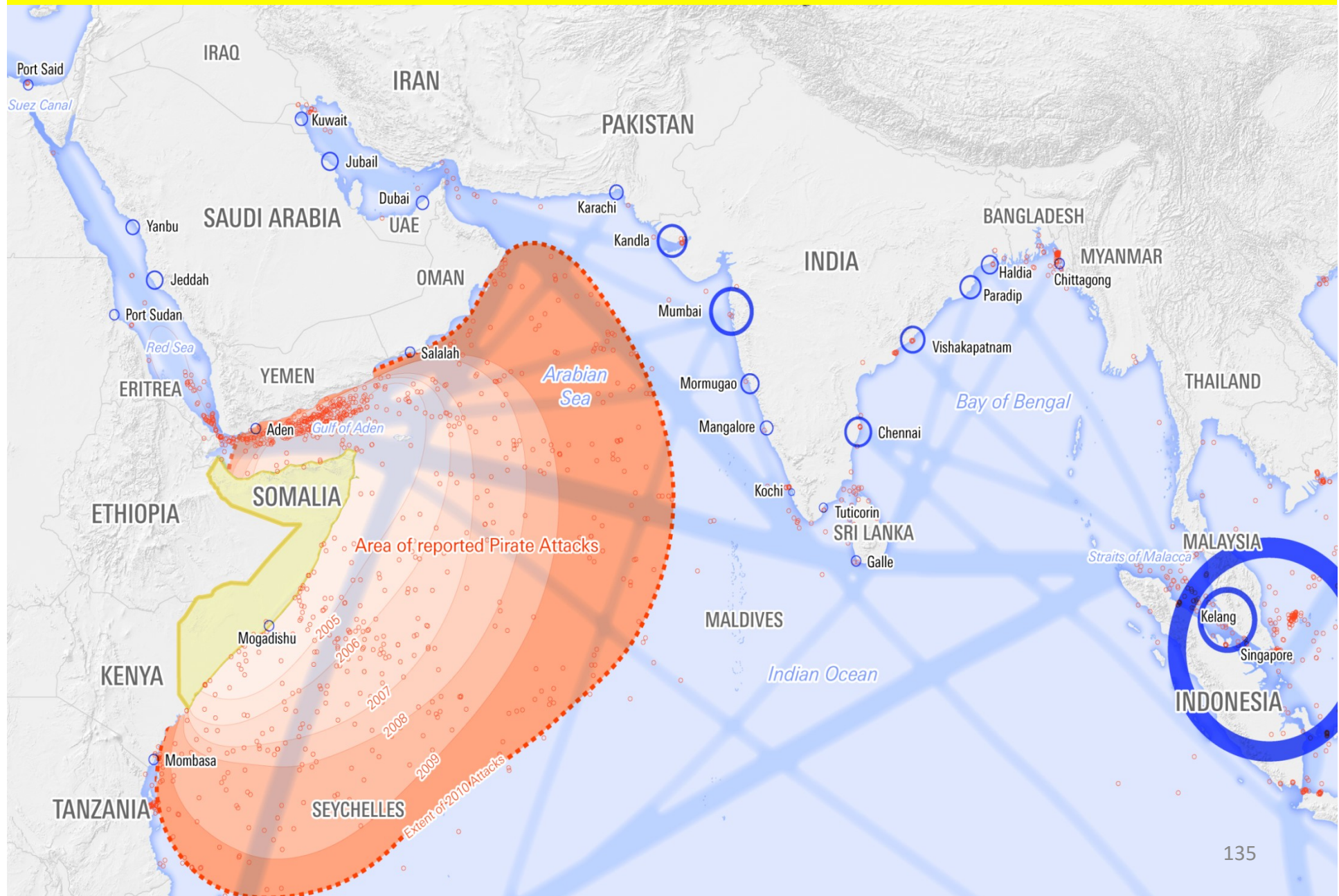
PIRACY AT SEA

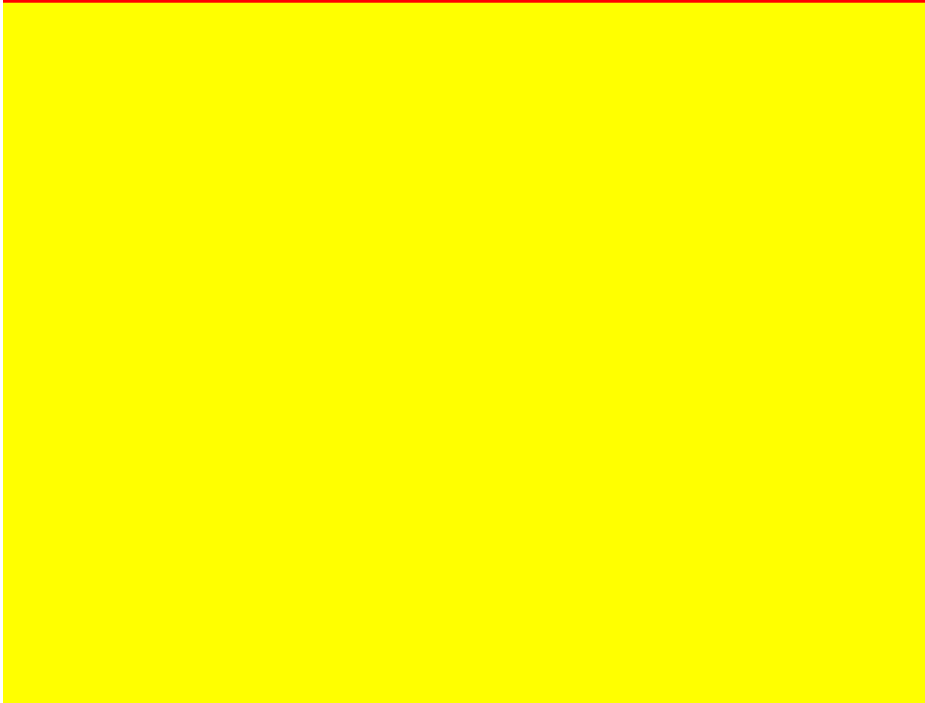
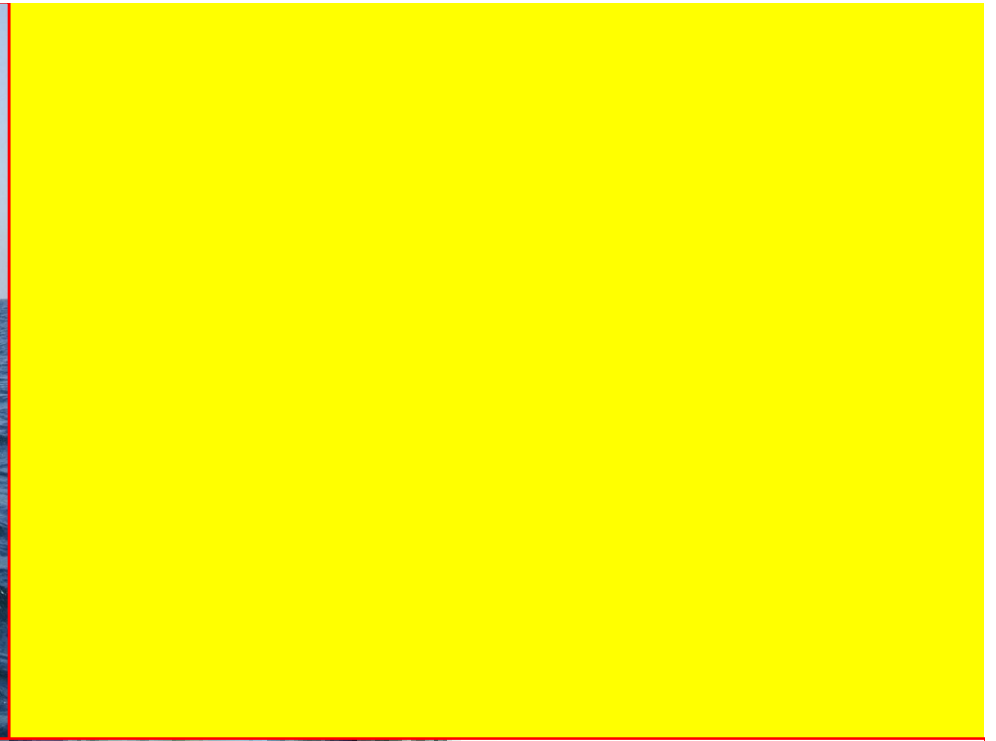


JOLLY ROGERS STILL FLIES



PIRACY OFF SOMALIA





PIRACY

➤ PIRACY CONTAINED BY DEPLOYMENT OF INTERNATIONAL NAVIES , ARMED GUARDS ON BOARD SHIPS AND ADOPTION OF BEST MANAGEMENT PRACTICES (BMP) BY SHIPS AND COS;

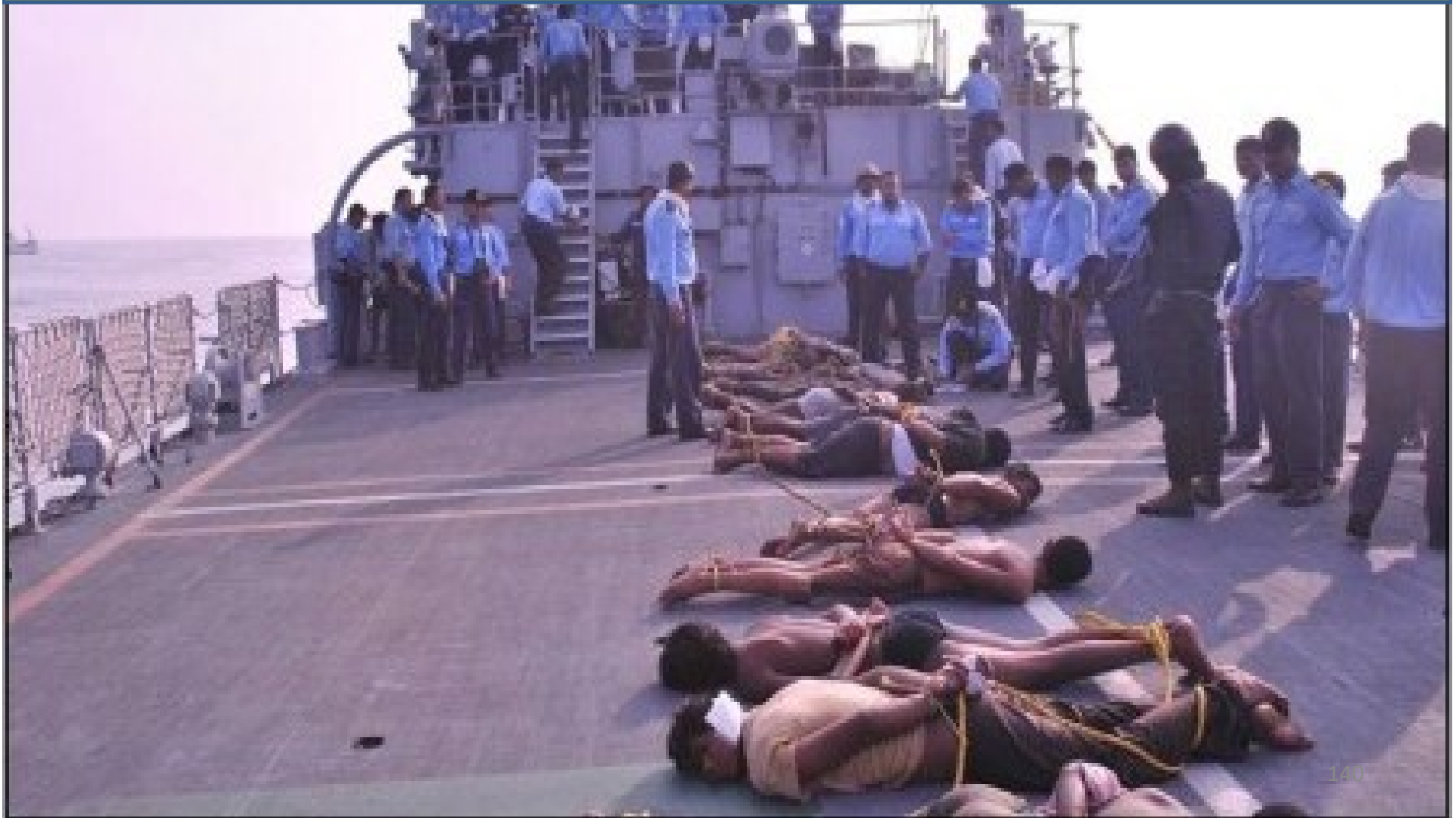
PIRACY

- INTERNATIONAL AND INDIAN DOMESTIC LAWS- WEAK
- INDIA'S DOMESTIC ANTI PIRACY BILL 2018- YET TO BE PASSED
- HIGH SEAS -- NO NATIONAL JURISDICTION
- TOO MANY ACTORS –COORDINATION DIFFICULT +
- RELUCTANCE TO PROSECUTE
- LACK OF MARITIME COURTS

PIRACY –ACTORS

- NATIONALITY OF PIRATES
- NATIONALITY OF CREW
- NATIONALITY OF VICTIMS
- FLAG STATE OF PIRATE SHIP
- FLAG STATE OF VICTIM SHIP
- FLAGS OF CONVENIENCE (FOC)
- NATIONALITY OF SHIP OWNERS
- NATIONALITY OF CARGO
- DESTINATION STATE
- COASTAL STATE WHERE INCIDENT OCCURRED-JURISDICTION

CAPTURED PIRATES ONBOARD INDIAN NAVAL SHIP



FIRING BY INS TABAR ON MOTHER SHIP



ILLEGAL, UNREPORTED AND UNREGULATED FISHING



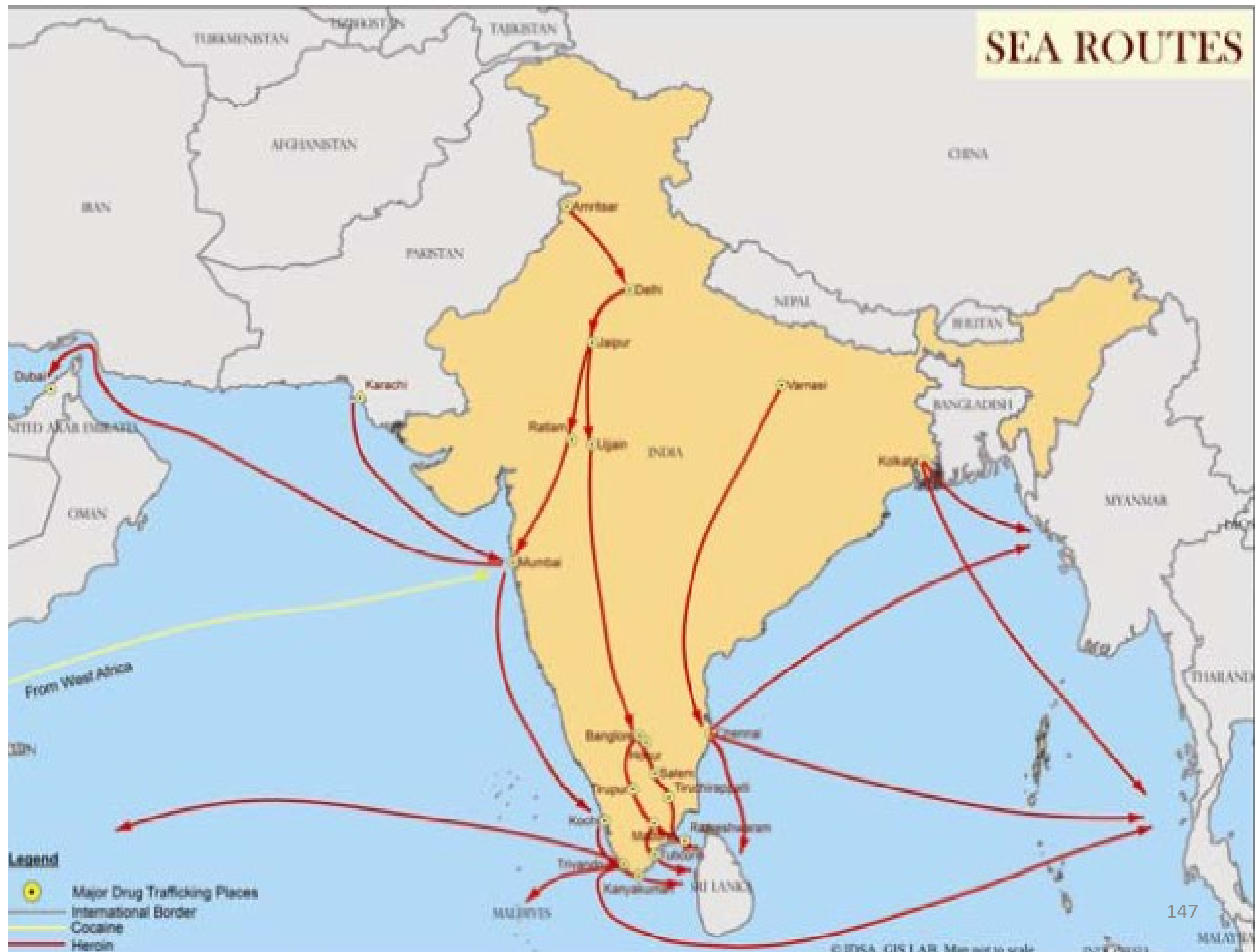
ILLEGAL, UNREPORTED AND UNREGULATED FISHING

- **UNREGISTERED VESSELS**
- VESSELS SWITCHING OFF AUTOMATIC IDENTIFICATION SYSTEM(AIS)
- FISHING WITH ILLEGAL GEAR
- FISHING DURING MONSOONS
- FISHING IN EEZ WITHOUT LICENCE
- FISHING WITH LICENCE BUT NOT REPORTING CATCH
- TRANSHIPPING WITH OUT PERMISSION
- FISHING WITH EXPLOSIVES

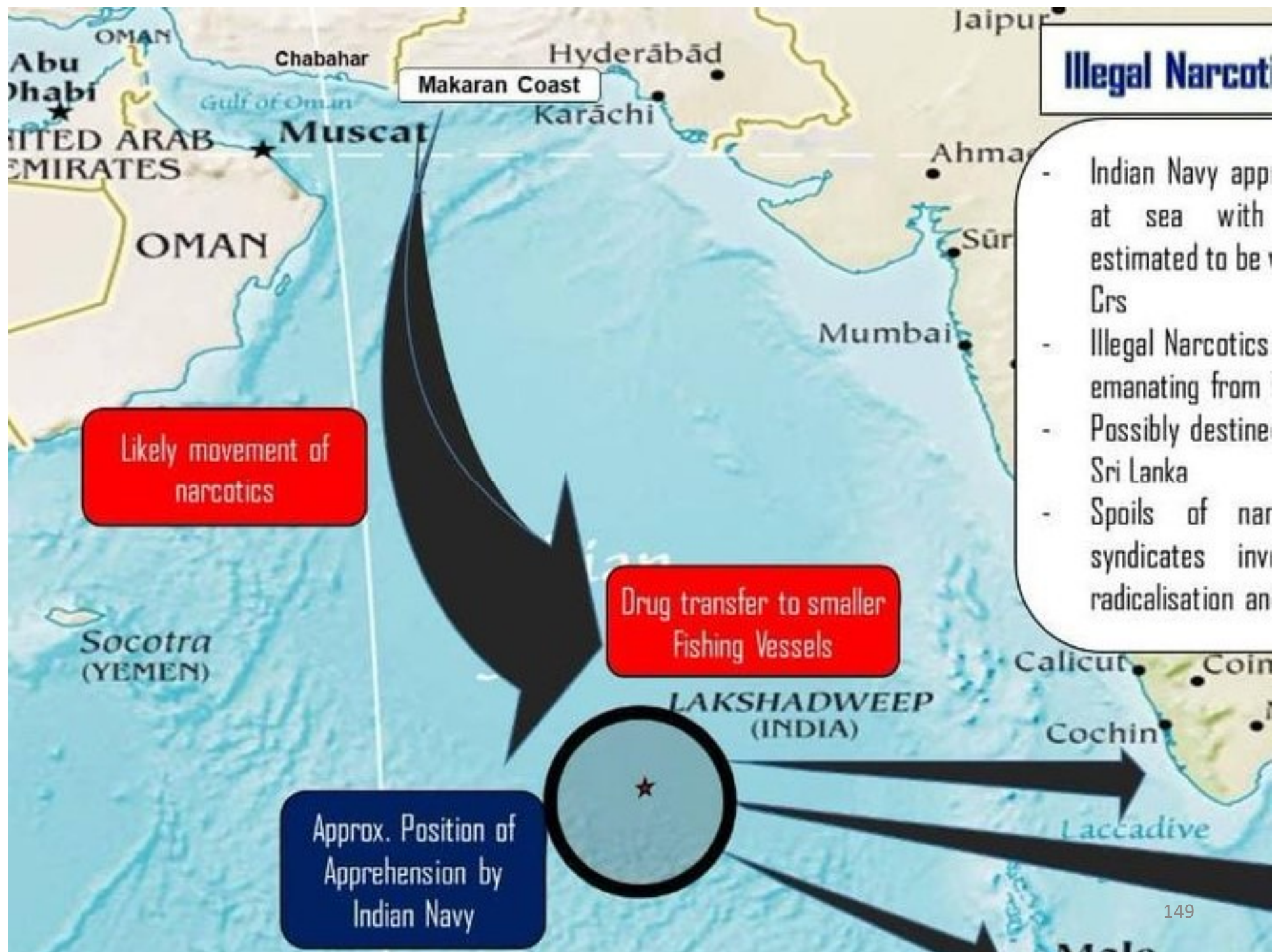
DRUG TRAFICKING



SEA ROUTES



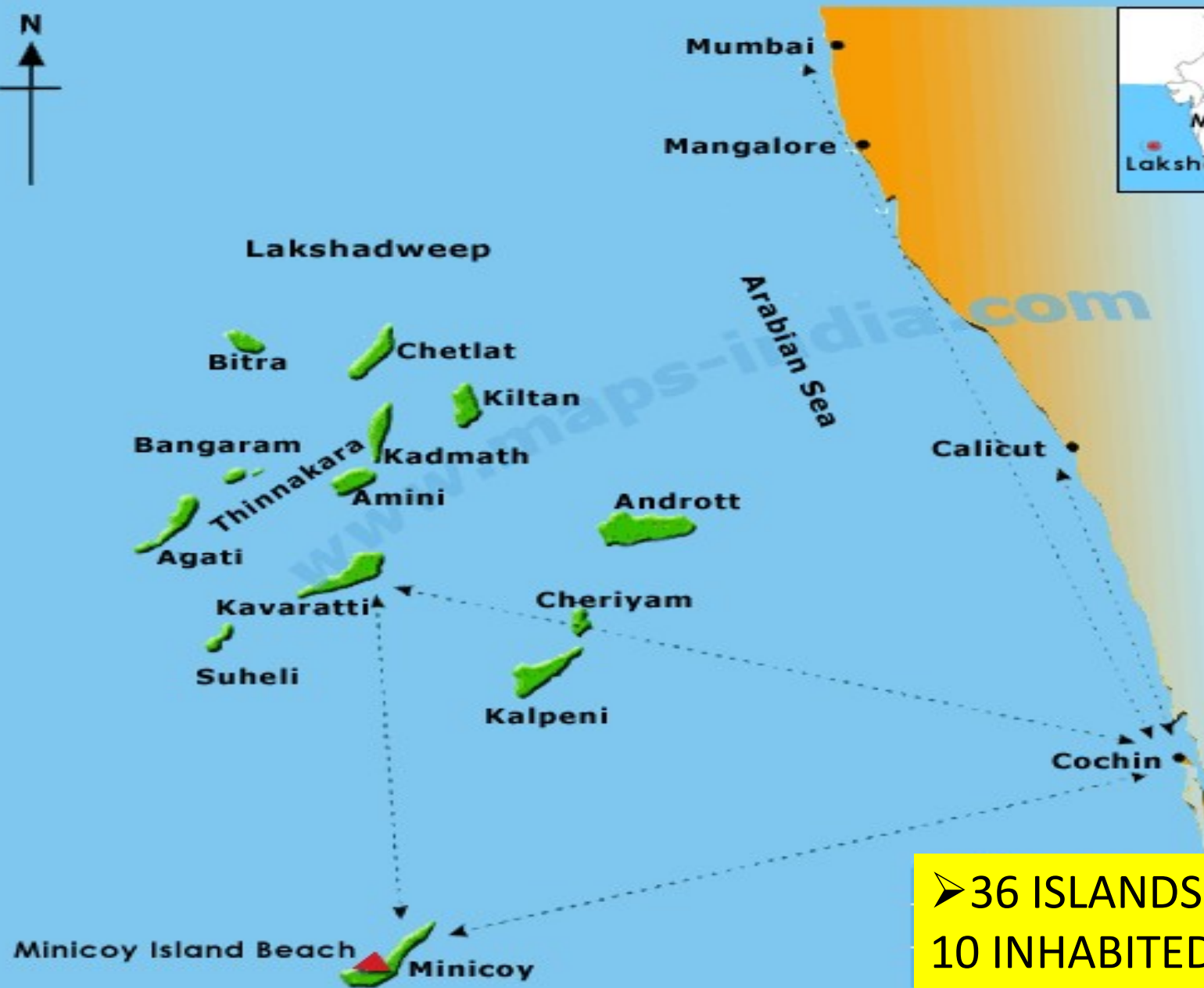
DRUGS HAUL BY INDIAN NAVY NAVY -APRIL 2021





DRUG HAUL BY ICG MARCH 2021





Lakshadweep Beach Map

 Map not to Scale

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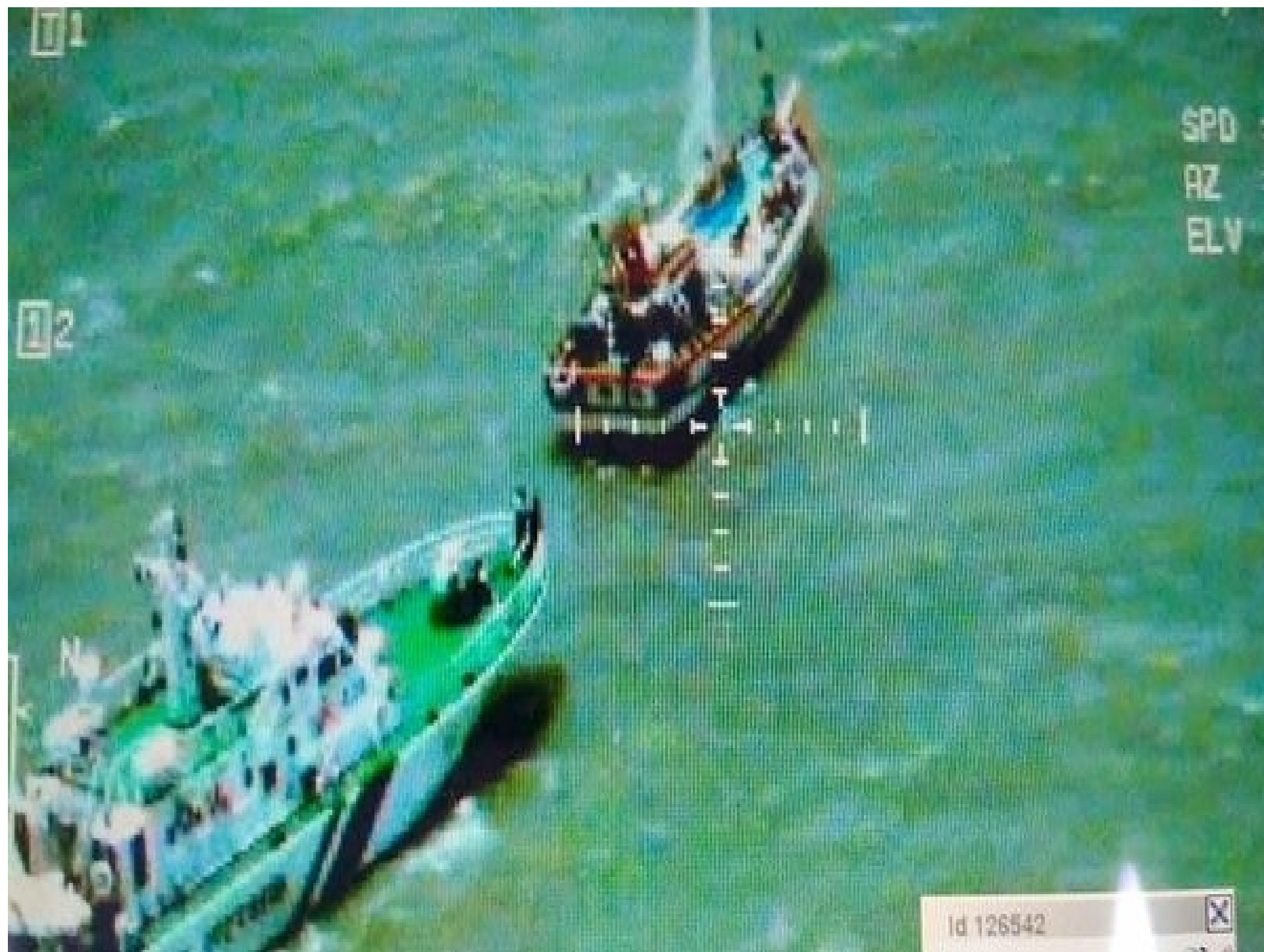
➤ 36 ISLANDS , ONLY
10 INHABITED
➤ NEFARIOUS
ELEMENTS



300 kg heroin, 5 AK-47 rif
1000 cartridges recovered

SEVERAL DRUG HAULS BY COAST GUARD OFF GUJARAT TOO





HEROIN SEIZURE

MUNDRA PORT- SEPT 2021 -FROM AFGHANISTAN

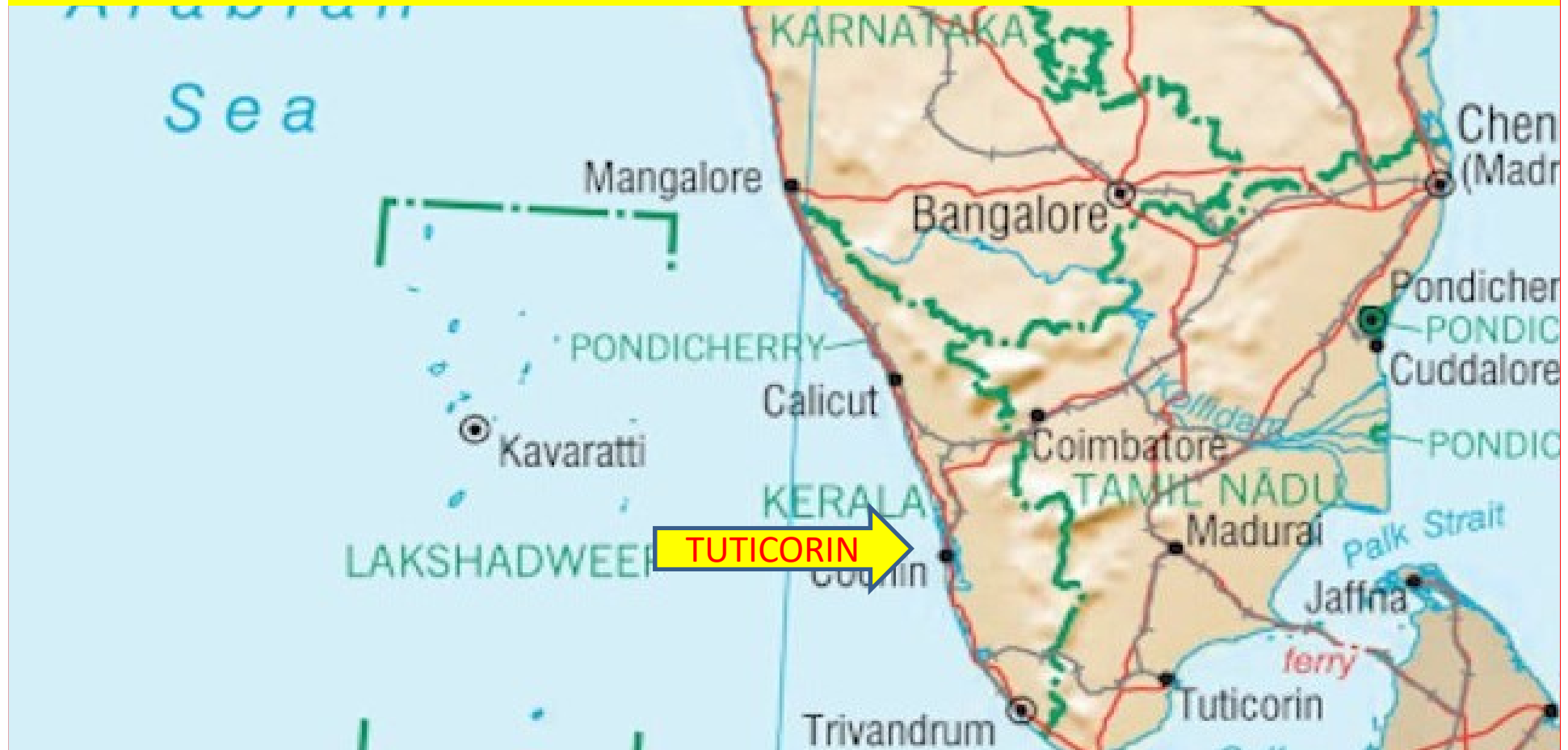
3000 KG

21,000 CRORES



ILLEGAL MIGRATION

MEDIA REPORTS -NIA- INVESTIGATING HUMAN SMUGGLING OF SRI LANKANS VIA TUTICORIN TO MANGALORE & MADURAI AND ONWARD TO CANADA



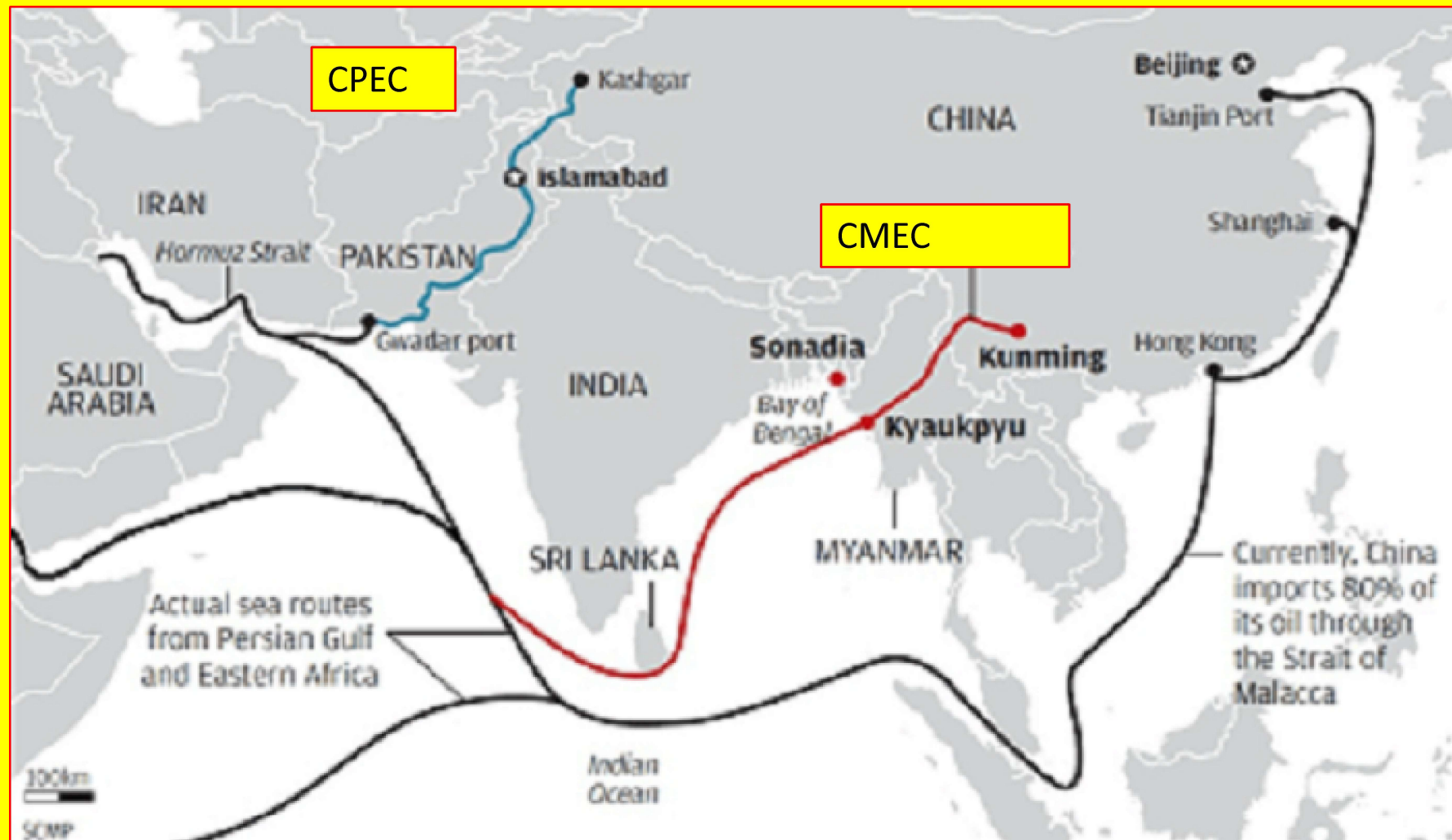
THE DRAGON AT SEA



- **CHINA'S VULNERABILITY - IMPORTS 80% OF HER CRUDE FROM WEST ASIA & WEST AFRICA WHICH PASSES THROUGH IOR, LONG LOGISTIC TAIL 5500 NM - MALACCA DILEMMA**

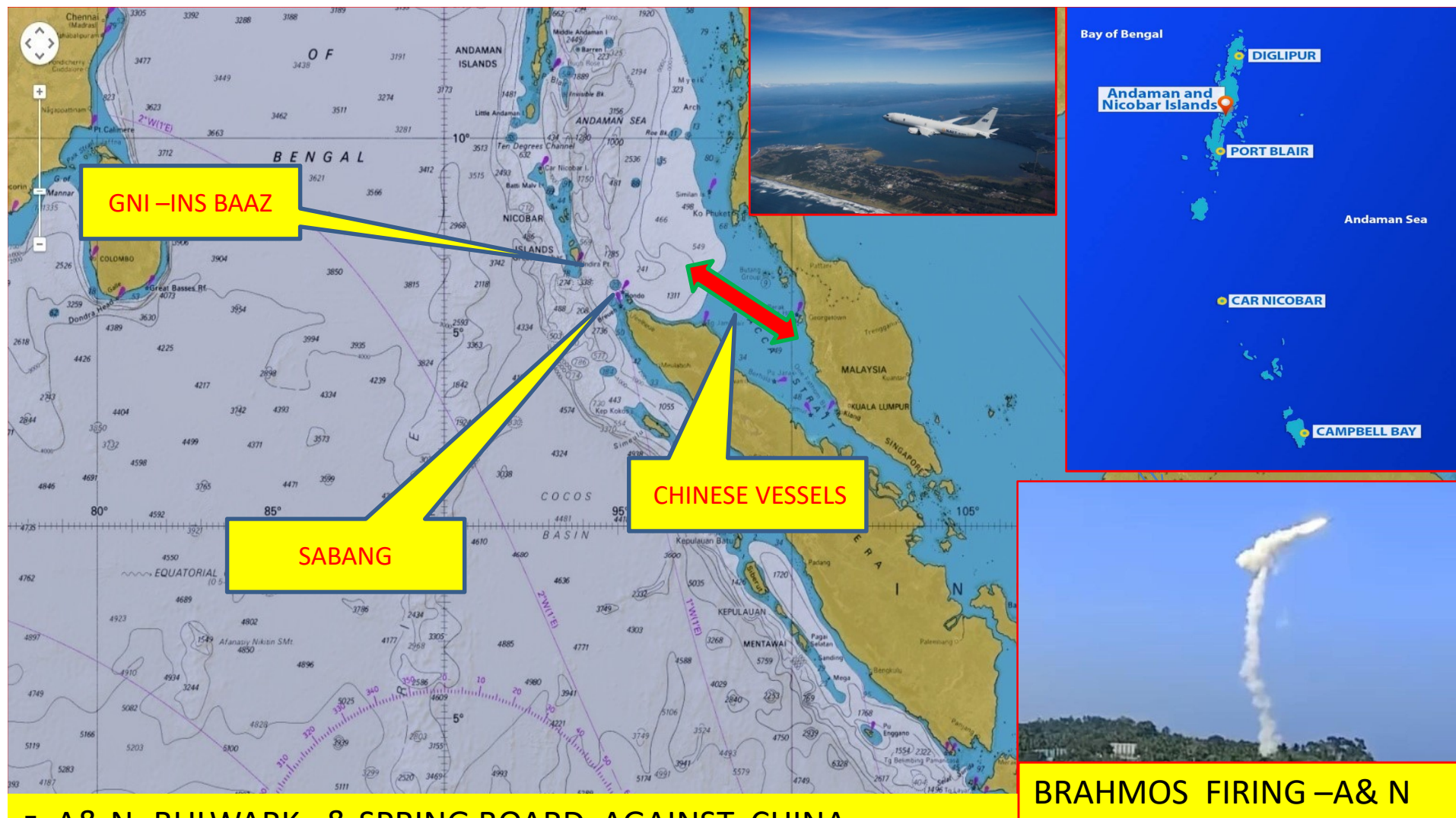


- **INDIA GEO- STRATEGICALLY LOCATED TO INTERDICT CHINA'S VESSELS**





THE DEFENCE AGAINST CHINA IN OUR **NORTH AND EAST** LIES
IN THE **INDIAN OCEAN**



- A& N -BULWARK & SPRING BOARD AGAINST CHINA
- NORTH SOUTH SPREAD -700 KM ; 4 AIRPORTS
- MALACCA FUNNEL -GNI – SABANG ; BOTH SIDES OF MALACCA
- BRAHMOS
- MARITIME THEATRE COMMAND

CHINA ASYMMETRIC THREATS

- **CHINESE TRAWLERS ARE A COMMON SIGHT CLOSE TO OUR EEZ**
- **INTELLIGENCE COLLECTION**
- **20 TRAWLERS OPERATING FROM GWADAR**



RECENT QUAD OUTCOME -INDO- PACIFIC PARTNERSHIP FOR MARITIME DOMAIN AWARENESS

- TO TRACK CHINESE FISHING VESSELS – IUU FISHING- NEAR INDIAN EEZ TOO
- CHINA ALSO USES FISHING VESSELS:-
 - TO COLLECT INTELLIGENCE
 - TO ASSERT TERRITORIAL CLAIMS USING ITS MARITIME MILITIA
- OFTEN GO DARK –SWITCH OFF TRANSPONDERS
- COMMERCIAL SATELLITES & EXISTING INFORMATION SHARING ARRANGEMENTS WILL BE USED



CHINESE RESEARCH VESSELS IN IOR

- CHINESE RESEARCH SHIPS SIGHTED /DETECTED CARRYING OUT HYDROGRAPHIC AND OCEANOGRAPHIC SURVEY IN IOR .
- VISITED KARACHI.
- CAN ALSO USE UNMANNED UNDERWATER VEHICLES



YUAN WANG 5



SATELLITE AND MISSILE TRACKING SHIP

YUAN WANG 5

- SRI LANKA - HAMBANTOTA -99 YEARS LEASE – CHINA
- POLITICAL , DIPLOMATIC, MILITARY ,SOCIAL MEDIA FLUTTER
- INDIA HELPING CHINA - ECONOMIC CRISIS
- SRI LANKA SOVEREIGN NATION AND REQUIRES CHINA FOR DEBT RESTRUCTURING – IMF LOAN
- MSR EQUIPMENT IF FITTED CAN BE USED FOR MILITARY OR HYDROGRAPHIC SURVEY WHICH IS ILLEGAL
- SHIP AT SEA MORE DANGEROUS THEN IN HARBOUR

end of part 1 .

THANK YOU

