

MARITIME INTELLIGENCE GATHERING & INFORMATION SHARING



COMMODORE UDAI RAO(RETD)
FORMER PRINCIPAL DIRECTOR NAVAL INTELLIGENCE
FORMER DIRECTOR CABINET SECRETARIAT

OPERATIONS & INTELLIGENCE

**TWO
SIDES
OF THE**



ONE MAN'S OPERATIONS IS ANOTHER MAN'S INTELLIGENCE

INTELLIGENCE LED OPERATIONS

■ **INFORMATION** IS AN ASSIMILATION OF DATA THAT HAS BEEN GATHERED, BUT NOT FULLY CORRELATED, ANALYZED, OR INTERPRET_{ED}.

■ **INTELLIGENCE** IS THE PRODUCT RESULTING FROM THE COLLECTION, EXPLOITATION, PROCESSING, INTEGRATION, ANALYSIS, EVALUATION, AND INTERPRETATION OF AVAILABLE INFORMATION . INTEGRATION AND ANALYSIS, COMBINED WITH A THOROUGH UNDERSTANDING OF MISSION REQUIREMENTS, CONVERT INFORMATION INTO USABLE INTELLIGENCE. THUS, INTELLIGENCE IS THE PRODUCT WE DERIVE FROM ANALYZING ALL AVAILABLE AND RELEVANT INFORMATION.

NATURE OF INTELLIGENCE

- INTELLIGENCE - WORLD'S SECOND OLDEST PROFESSION
- A NEVER ENDING CHASE - 24X7
- CAT & MOUSE GAME
- A FLUID COMMODITY
- PERISHABLE
- OFTEN INCOMPLETE, SOMETIMES CONFUSING ,
- AT TIMES CONTRADICTIONARY
- COMPLICATED BY DIVERSE LEGAL NATURE OF MARITIME ZONES
- REQUIREMENTS OFTEN EXCEED CAPABILITY
- **REQUIRED BY YESTERDAY**

SCOPE OF INTELLIGENCE

- STRATEGIC INTELLIGENCE – NATIONAL LEVEL, NUCLEAR , MISSILES, SATELLITE
- OPERATIONAL INTELLIGENCE- NAVY/ TRI SERVICE / INDIAN COAST GUARD
- TACTICAL INTELLIGENCE - NAVY/ICG/ CUSTOMS /STATE POLICE

MARITIME INTELLIGENCE

SHIPPING INTELLIGENCE

NAVAL INTELLIGENCE

COASTAL INTELLIGENCE

INTEL COLLECTION RESPONSIBILITY

STRATEGIC- R& AW , NATIONAL TECHNICAL
RESEARCH ORGANIZATION (NTRO), DIA

INTERNAL SECURITY -IB

OPERATIONAL / TACTICAL/ COASTAL – NAVY ,
COAST GUARD , POLICE , DRI

INTELLIGENCE - OPERATIONS & ANALYSIS

INTELLIGENCE CYCLE

- **PLANNING & DIRECTION**- FORESIGHT , TASKING
- **COLLECTION AND REPORTING**- TASKING
- **PROCESSING & EXPLOITATION**-
- **ANALYSIS & PRODUCTION** —ALL SOURCES , FUSING ,CORROBORATION
- **DISSEMINATION & UTILIZATION**-PUSH MODEL,PULL MODEL
- **EVALUATION & FEEDBACK**

ATTRIBUTES OF INTELLIGENCE

- **TIMELINESS**- TIME SENSITIVE
- **USEABILITY**- TIMELINESS ,RELEVANCE ,PROPER FORMAT
- **AVAILABILTY**- WHERE & WHEN REQUIRED
- **THOROUGHNESS**
- **ACCURACY** – FACTUALY CORRECT , CORROBORATED
- **RELEVANCE** – TO THE SITUATION & INTENDED USER

QUESTIONS WHICH AN INTELLIGENCE REPORT MUST SATISFY :

- WHAT
- WHERE
- WHEN
- HOW
- WHY
- WHO
- HOW MUCH

MARITIME SEASCAPE



KNOW THY ENEMY – RED FORCE



CHINESE COAST



MULTI- DIMENSIONAL SURVEILLANCE

- ON SURFACE OF THE WATER
- AIRSPACE ABOVE WATER
- UNDERWATER
- FROM THE SEA – ASHORE
- AEROSPACE –SATELLITE
- CYBER SPACE



SENSORS FOR INTELLIGENCE

- EYES/ BINOCULARS
- ELECTRO -OPTICAL
- RADAR
- SONAR
- SONOBUOYS
- INFRA- RED
- V/UHF COMMUNICATION
- HF
- SATCOM



PLATFORMS FOR INTELLIGENCE

- SURFACE SHIPS
- LONG RANGE MARITIME PATROL (LRMP) AIRCRAFT -EYES & EARS OF THE FLEET
- CLOSE IN –SURVEILLANCE A/C -DORNIERS
- HELICOPTERS
- UNMANNED AERIAL VEHICLES (UAV)
- UNMANNED UNDERWATER VEHICLE (UUV)
- UNMANNED SURFACE VEHICLES
- MARITIME SURVEILLANCE SATELLITES
- MISSILE AND SATELLITE MONITORING SHIPS
- SUBMARINE



RADAR
ELINT
COMINT



INDIAN NAVY'S

SEA GUARDIAN



Indian Navy Launched Its First Satellite And Nuclear Missile Tracking Ship

INS Dhruv



MERCHANT SHIPS

MERCHANT SHIPS



VESSEL , CARGO& CREW

- BUILT IN ONE COUNTRY
- NATIONALITY ANOTHER
- REGISTERED ELSEWHERE
- OWNER IS A
- MANAGED BY B
- CHARTERED BY - C
- CONSIGNOR -D
- CONSIGNEE- -E
- TRANS SHIPPED ENROUTE
- STAFFED BY MULTINATIONAL CREW
- MARITIME LOGISTIC SUPPLY CHAIN -TENOUS
- DIFFICULT TO FIND OUT OWNERSHIP OF SHIP & CARGO AND INTENTIONS OF CREW



FLAGS OF CONVENIENCE



**FOC- A SHIP MAY BE REGISTERED IN A COUNTRY OTHER THAN ITS OWN
IN ORDER TO AVOID FINANCIAL CHARGES OR RESTRICTIVE
REGULATIONS .**

Antigua and Barbuda.

Bahamas.

Barbados.

Belize.

Bermuda (UK)

Bolivia.

Cambodia.

Cameroon.



GHOST SHIPS

GHOST SHIPS

LTTE – 11 SHIPS

PIRATED SHIPS

SHIPS BOUND FOR BREAKING UP– REROUTED TO ILLEGAL TRADE

NAMES , IMO No & OTHER DETAILS PAINTED OVER , AIS SWITCHED OFF

PART OF MARITIME CRIME SYNDICATE

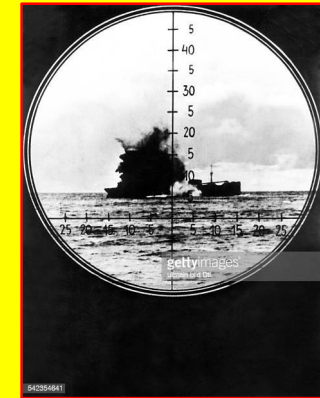
FLAGS OF CONVENIENCE (FOC) SHIPS SUSCEPTIBLE

ALANG SHIP BREAKING
YARD



WHY TRACK MERCHANT SHIPS/ CHARTERED BY ENEMY

- STRATEGIC CARGO –OIL & GAS
- FROM WHERE SOURCED ?
- ROUTE
- QUANTITY -
- STRATEGIC RESERVE
- WAR WAGING CAPABILITY
- DEPLOYMENT OF SUBMARINES IN WAR FOR TARGETTING





NINE MARITIME CRIMES

www.marineinsider.com



UNAUTHORIZED ENTRY

Sailing on a nation's waters **without permission** is a punishable maritime crime.



MARITIME PIRACY

Plundering, hijacking, detention of international ships.



DRUG TRAFFICKING

Bringing and distributing **drugs** is a serious maritime crime.



SMUGGLING EXOTIC PLANTS AND ANIMALS

Due to **quarantine reasons**, **smuggling** them is a punishable offence.



HUMAN TRAFFICKING

Stowing away is a grave crime.



ILLEGAL CARRYING OF WEAPONS AND ARTILLERY

Due to their sensitive nature, only certain ships are **authorized** to carry **arms**.



DISCHARGING GARBAGE INTO THE OCEAN

Countries have policies to discharge **garbage** into the coastal waters.

USE OF FISHERMEN– INTEL REPORTING

- EYES & EARS
- CAN REPORT STRANGE BOATS
- CREW WHO ARE NOT LOCAL
- SAGAR RAKSHAK DAL
- NAVY/ ICG/ POLICE DO BRIEF FISHERMEN

CHINESE FISHING FLOTILLA



INTELLIGENCE DISCIPLINES

- OPEN SOURCES INTELLIGENCE (OSINT)
- HUMAN INTELLIGENCE (HUMINT)
- **TECHNICAL INTELLIGENCE (TECHINT)**
- GEO SPATIAL INTELLIGENCE (GEO INT)
- SIGNAL INTELLIGENCE (SIGINT)
- ❖ COMMUNICATION INTELLIGENCE (COMINT)
- ❖ ELECTRONIC INTELLIGENCE (ELINT)
- CYBER INT
- ACCOUSTIC INTELLIGENCE (ACINT)

ONE TYPE OF INTEL CAN CUE ANOTHER

> 90% OF INFO
AVAILABLE IN OPEN
SOURCE

CUEING TARGETTED
COLLECTION



TEST OF A SPY- HUMINT

- OPERATING IN A FOREIGN LAND/ WITH OUT DIPLOMATIC COVER
- PERSONAL SAFETY AT STAKE
- LIVING AND WORKING IN PAKISTAN AND CHINA IS DIFFICULT . NOT MANY CHINESE LANGUAGE EXPERTS
- DYING ART
- PREPONDERANCE OF TECHNICAL SURVEILLANCE
- OPTICAL AND DIGITAL SURVEILLANCE



TRADE CRAFT

- ESPIONAGE / SPYING
- OVERT /COVERT OPERATIONS / CLADESTINE OPS
- SPOTTING , CULTIVATING ,RAISING OF TARGETS AND SOURCES
- SECURITY PROTOCOLS
- THEORY & PRACTICE OF SURVEILLANCE
- THEORY & PRACTICE OF COMMUNICATION
- COVER STORY & ALIBI
- THEORY & PRACTICE OF OBSERVATION & MEMORY
- THEORY & PRACTICE OF INTERROGATION
- REPORT WRITING

HUMINT Collection Modalities



- AGENTS/ OPERATIVES
- INFO PEDDLERS
- VISA SEEKERS
- REFUGEES
- POWs
- DIPLOMATS/ DEFENCE ADVISORS
- NGOS
- SPECIAL FORCES
- WALK - INs

PEOPLE WHO LIVE AND WORK ALONG THE COAST

- PORT OFFICIALS
- DG SHIPPING/ INDIAN SHIPPING Cos;/ merchant ships
- DG HYDROCARBONS /ONGC
- SHIP BUILDING YARDS
- CISF
- BSF
- INDIAN CUSTOMS
- ISRO
- STATE MARINE POLICE
- MINOR PORTS
- STATE MARITIME BOARDS
- FISHERIES

GEOSPATIAL INTELLIGENCE



SPY SATELLITES/ MILITARY SURVEILLANCE SATELLITES

- TES – TECHNOLOGY EXPERIMENTAL SATELLITE
- CARTOSAT
- RISAT – RADAR IMAGING SATELLITE
- EMISAT - ELECTRO MAGNETIC INTELLIGENCE SATELLITE
- SINDHU NETRA –COLLOBORATION WITH FRANCE
- **OFTEN DUAL USE**

CAPABILITIES AND LIMITATIONS OF MARITIME GEOINT

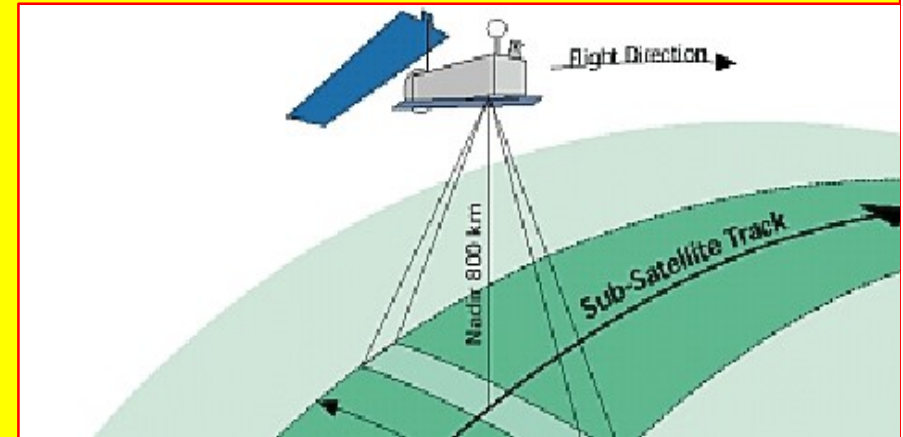
- ORBITAL GEOMETRY
- SWATH
- REVISIT RATE
- RESOLUTION

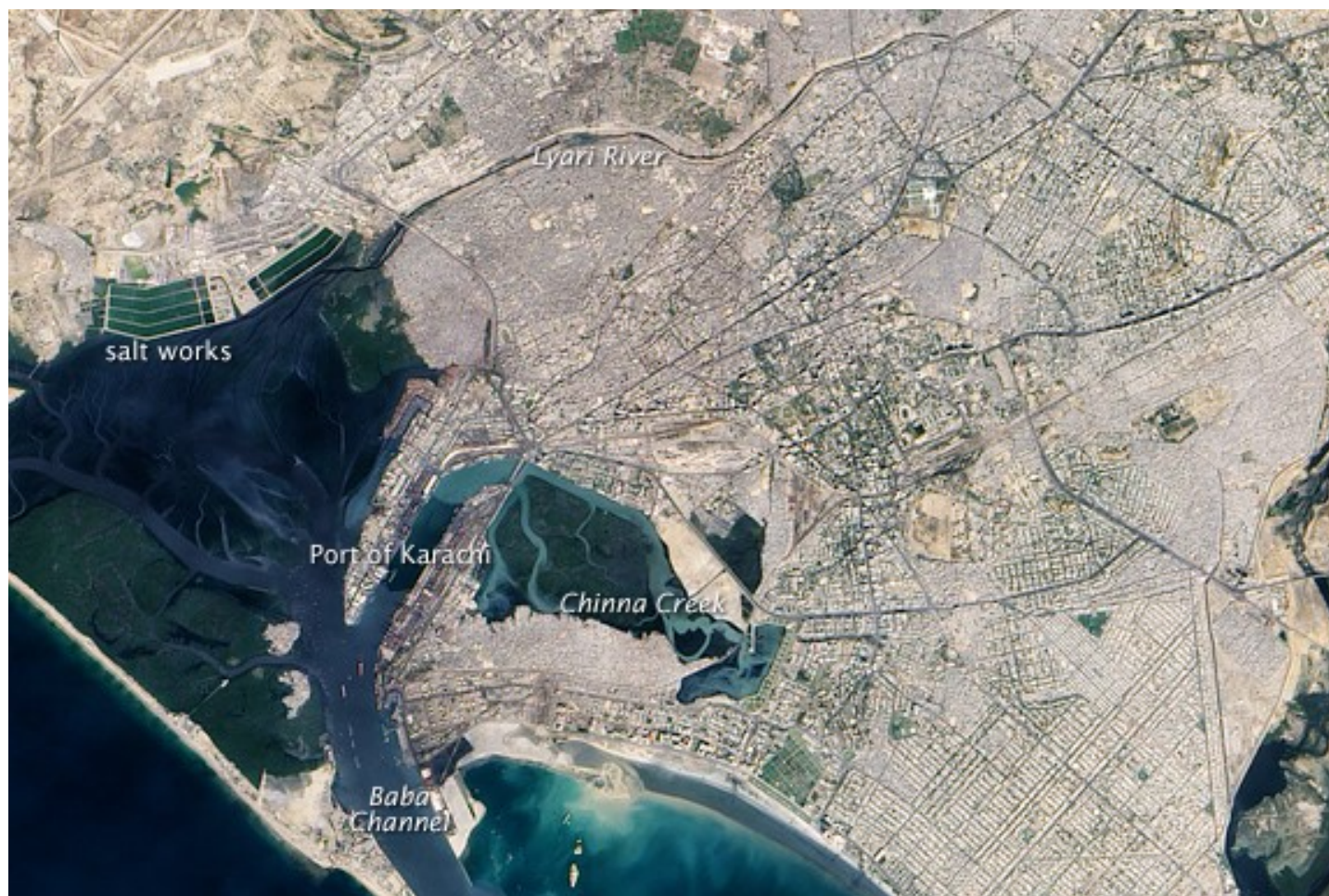
- EXPENSIVE
- FEW NOs

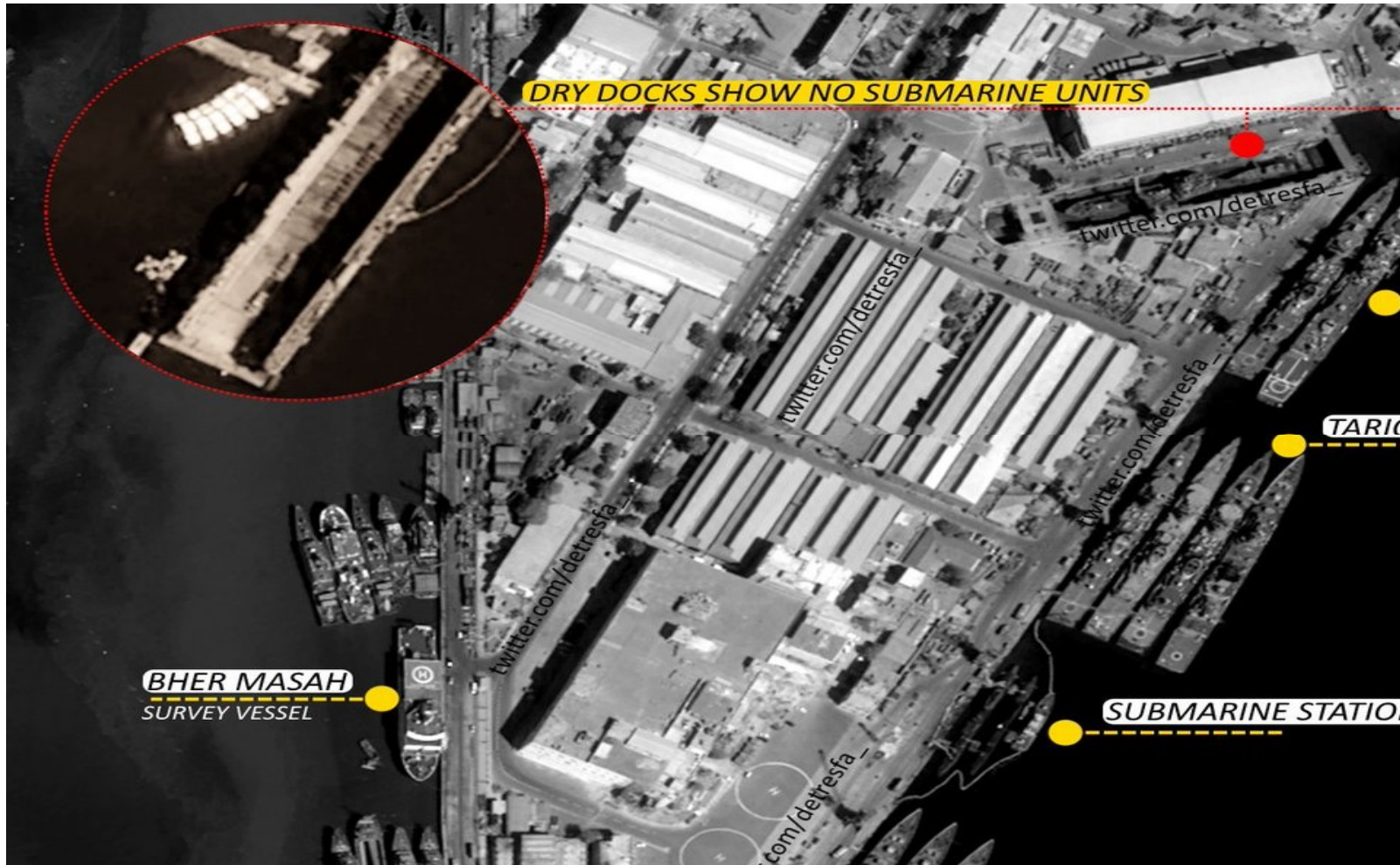
- MARITIME AREA TOO LARGE TO BE COVERED BY SATELLITES

- CAN CUE OTHER ASSETS SUCH AS LRMP A/C
- USEFUL IN PORTS AND CHOKES POINTS

- ELECTRO-OPTICAL SATELLITES -AFFECTED BY WEATHER /CLOUDS
- SYNTHETIC APERTURE RADAR (SAR) CAN OVERCOME WEATHER









SIGINT

❖ COMINT

❖ ELINT



Signals intelligence (SIGINT) is [intelligence-gathering](#) by interception of signals, whether [communications](#) between people (**communications intelligence**—abbreviated to **COMINT**) or from electronic signals not directly used in communication (**electronic intelligence**—abbreviated to **ELINT**).

As [sensitive information](#) is often [encrypted](#), signals intelligence in turn involves the use of [cryptanalysis](#) to decipher the messages.

- AIRCRAFT / SHIPS – MOVE ALONG COAST
- ENTICE ENEMY TO TRANSMIT ON RADARS
/COMMUNICATION - MONITOR

- PARAMETER
- FREQUENCY
- PRF/PRR
- AERIAL ROTATION RATE
- POWER OUT PUT
- ASSESS TYPE OF EMITTER





PEACE TIME ACTIVITY -FINGER PRINTING
FOR ELINT DATA LIBRARY

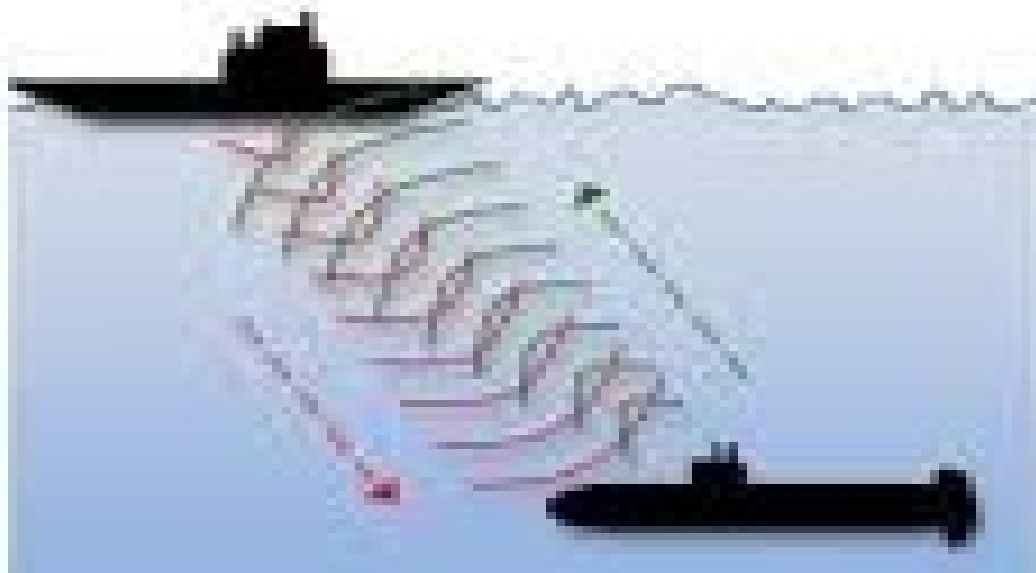
ACCOUSTIC INTELLIGENCE (ACINT)

- DETECTION OF TARGETS IN WATER
- ACTIVE- TX& RX
- PASSIVE – RX – RADIATED NOISE

ACCOUSTICS

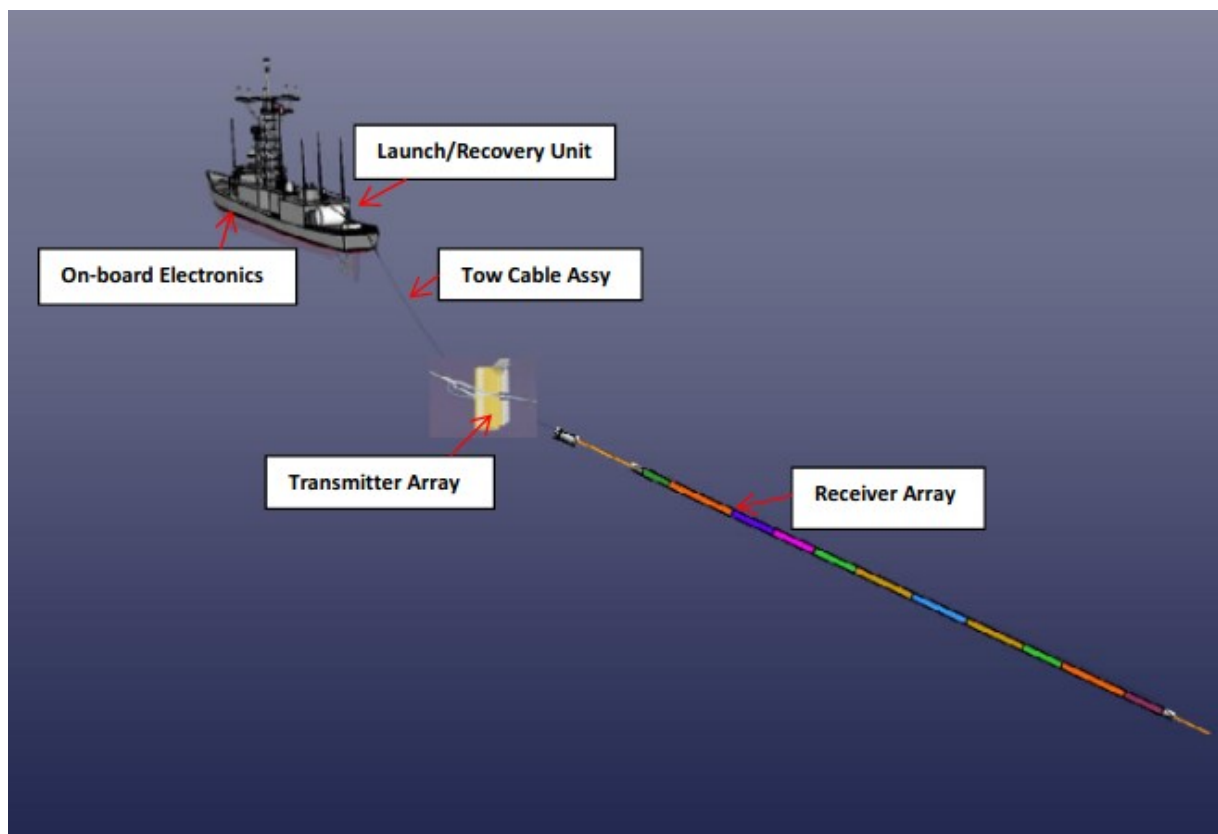
Sonar

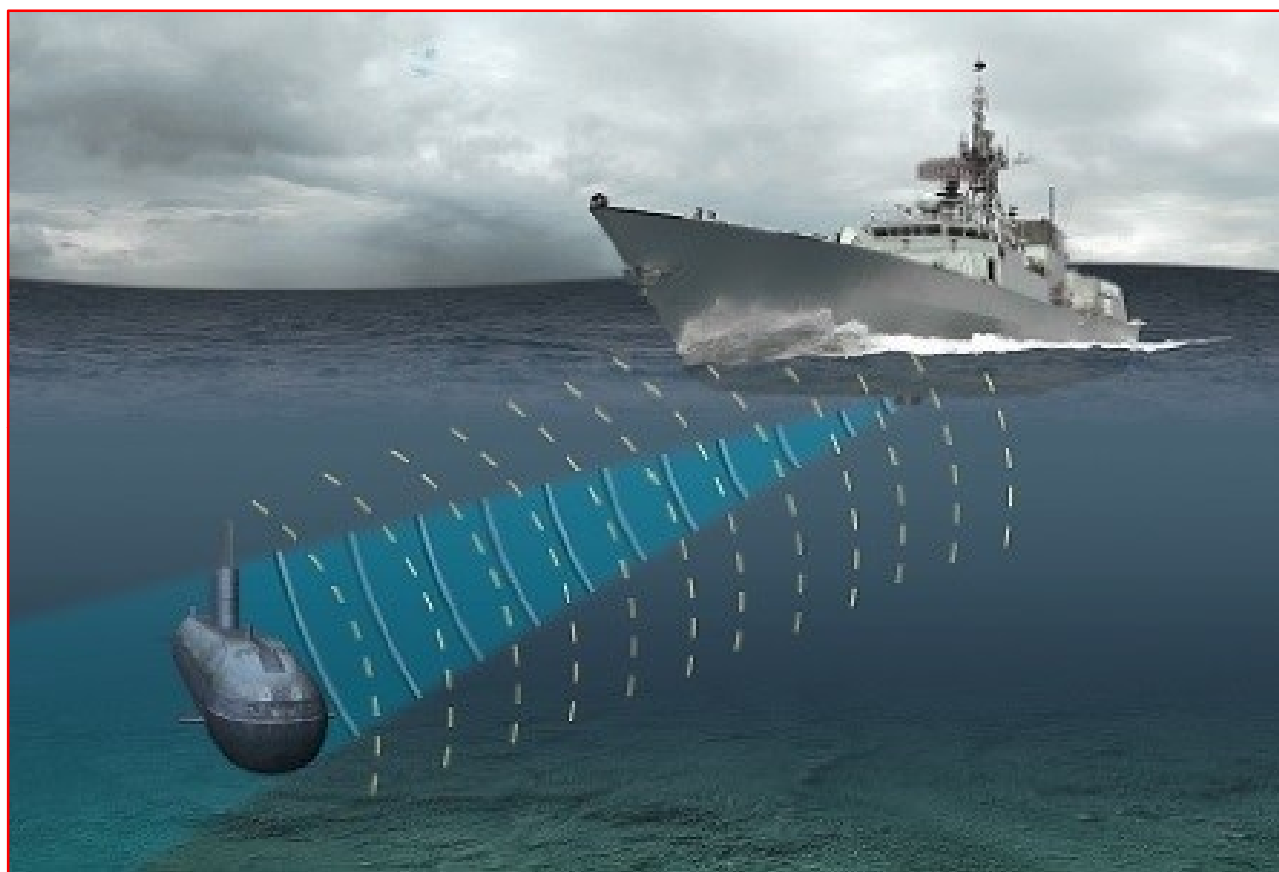
Active



Passive



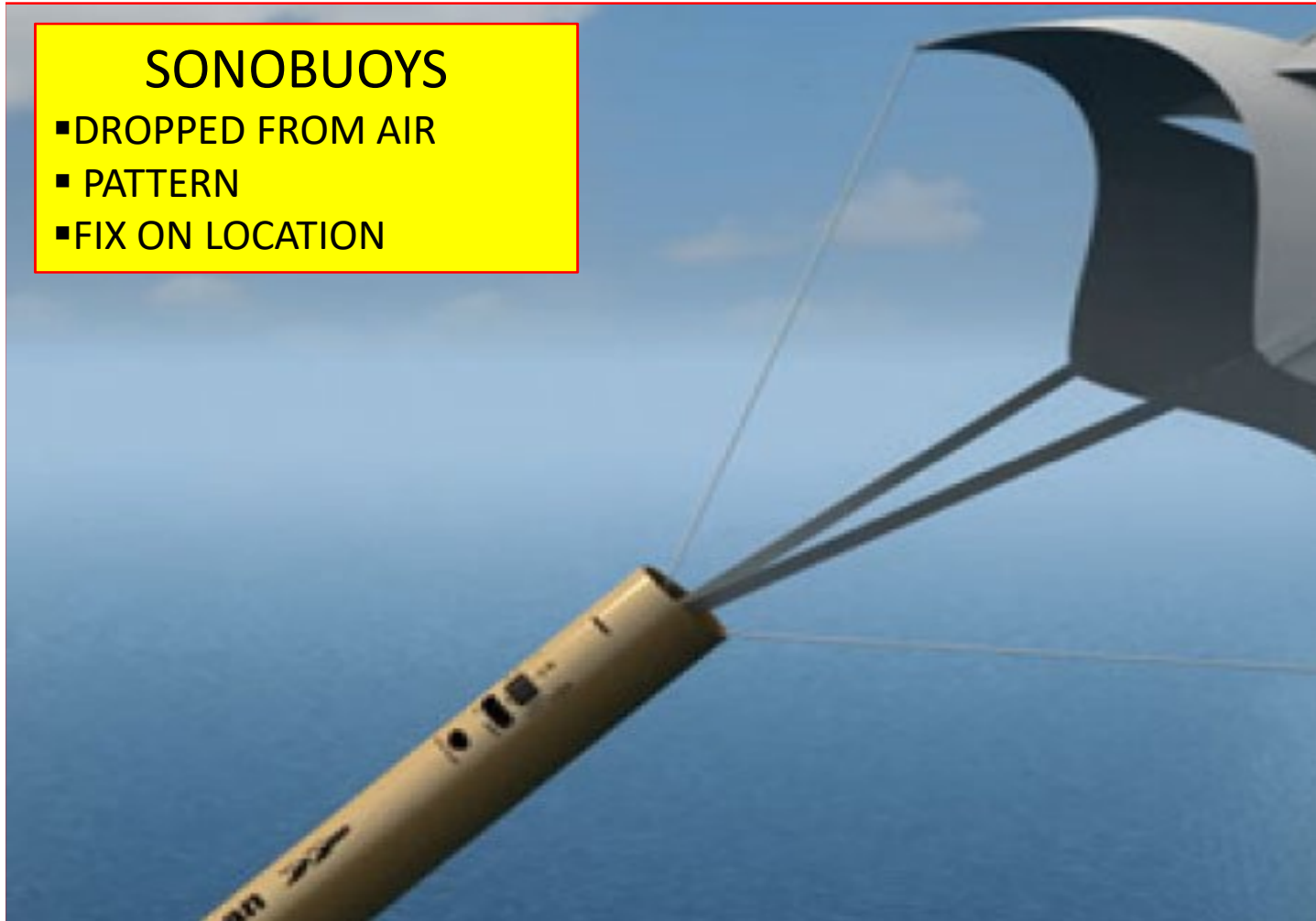






SONOBUOYS

- DROPPED FROM AIR
- PATTERN
- FIX ON LOCATION





RECORDING HULL AND PROPELLOR NOISE , FIXING THE LOCATION OF A SUBMARINE

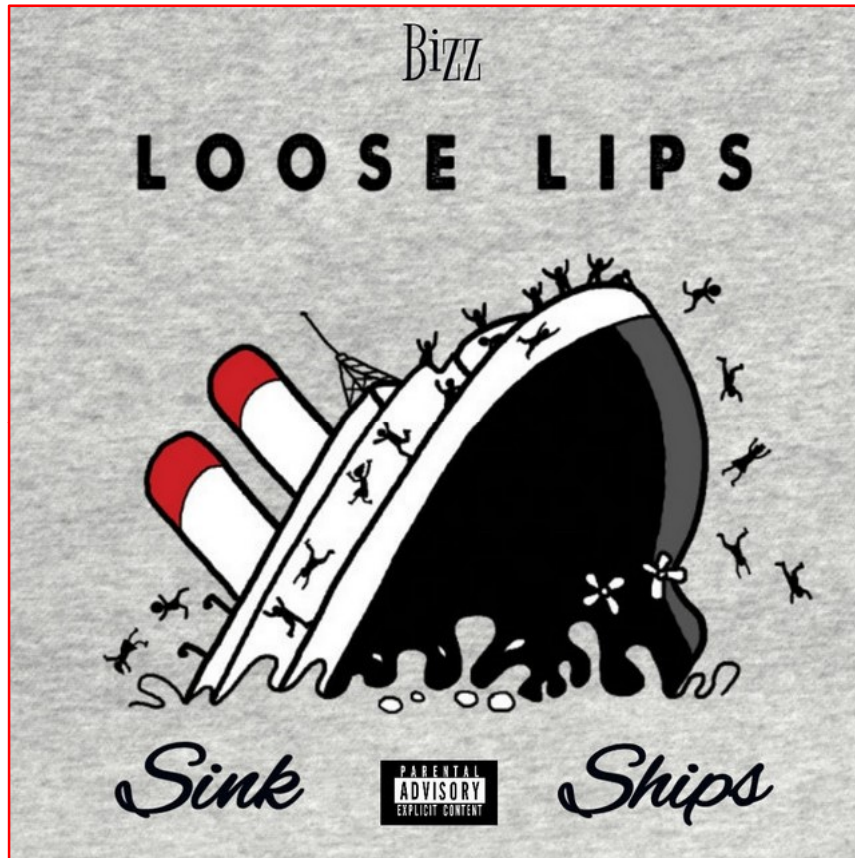


PEACE TIME ACTIVITY -FINGER PRINTING FOR ACCOUSTIC DATA LIBRARY

COUNTER-INTELLIGENCE

- PREVENTION OF PENETRATION OF OWN OPERATIONS /INTELLIGENCE BY FOREIGN AGENCIES
- SOMETIMES PROJECTED AS A SECURITY ISSUE
- HUMINT/ COVERT ACTION RELATED
- COULD LEAD TO OPERATIONAL POSSIBILITIES

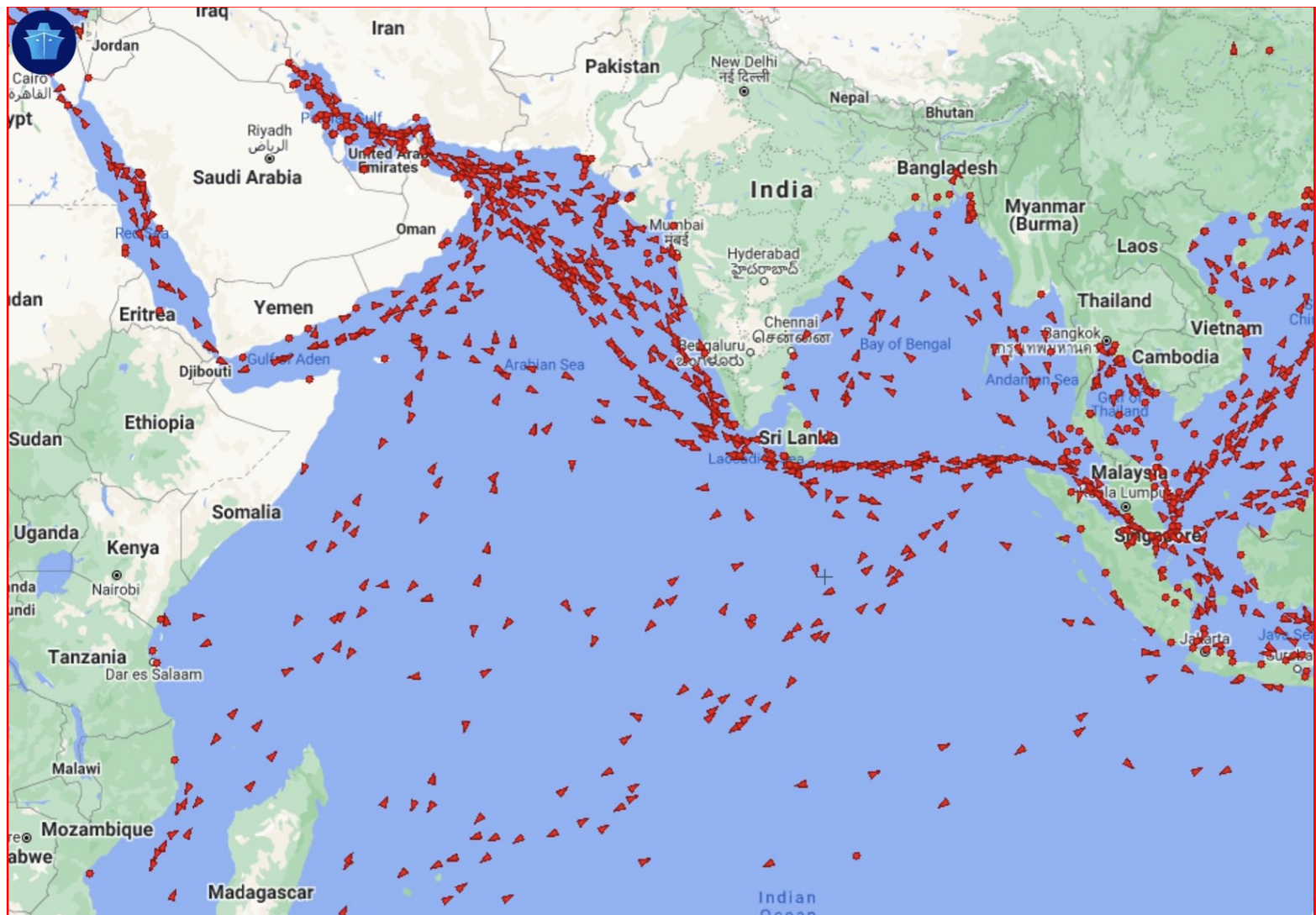
WORLD WAR II POSTERS

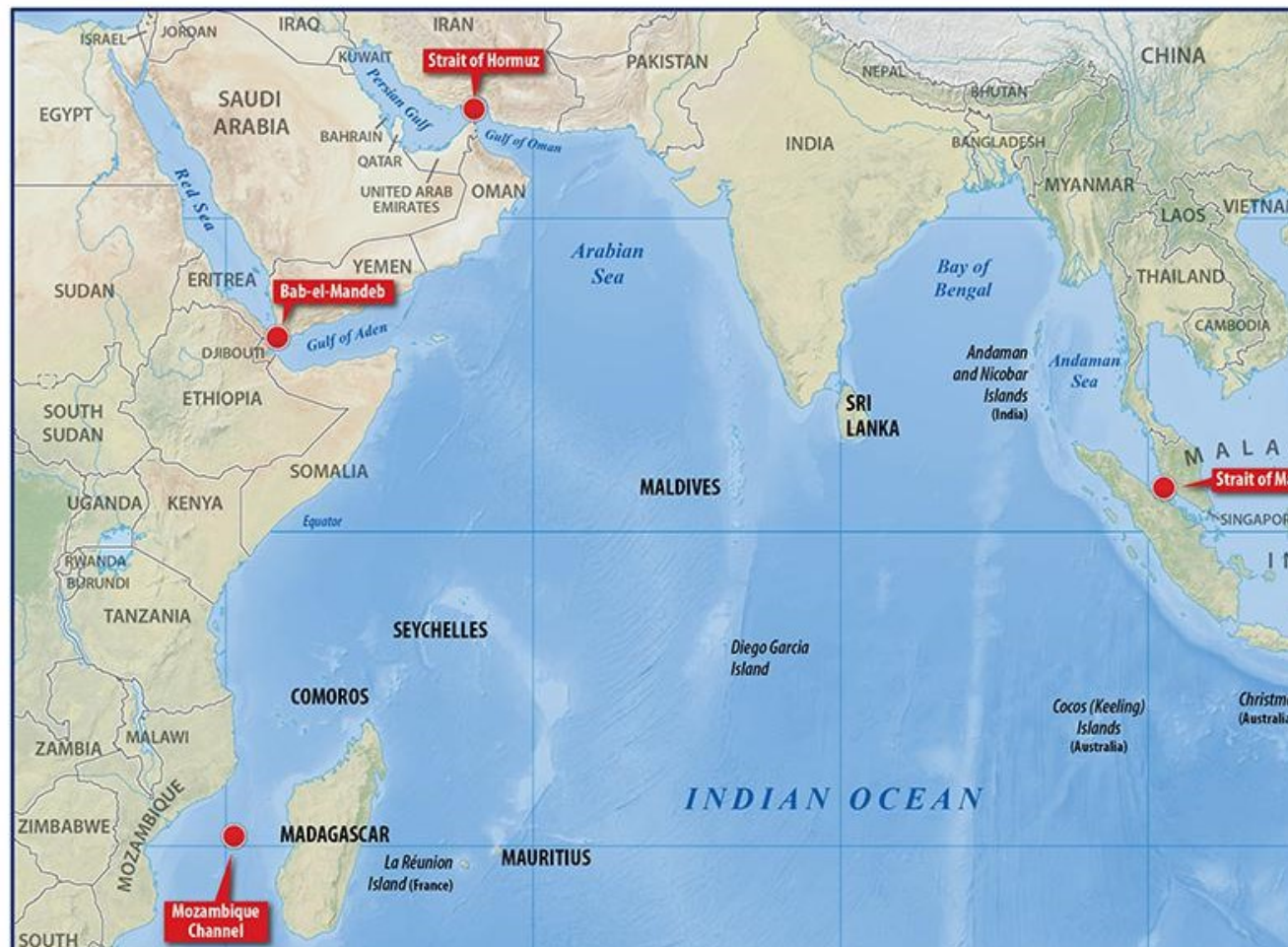


PAK ISI
HONEY TRAPPING – BEAUTIFUL WOMEN – ALLURE OF SEX
MONEY
LIQUOR
telephone call – impersonation

ARMED FORCES HAVE BANNED SEVERAL APPS

SEA LINES OF COMMUNICATION (SLOC)- AND CHOKE POINT MONITORING





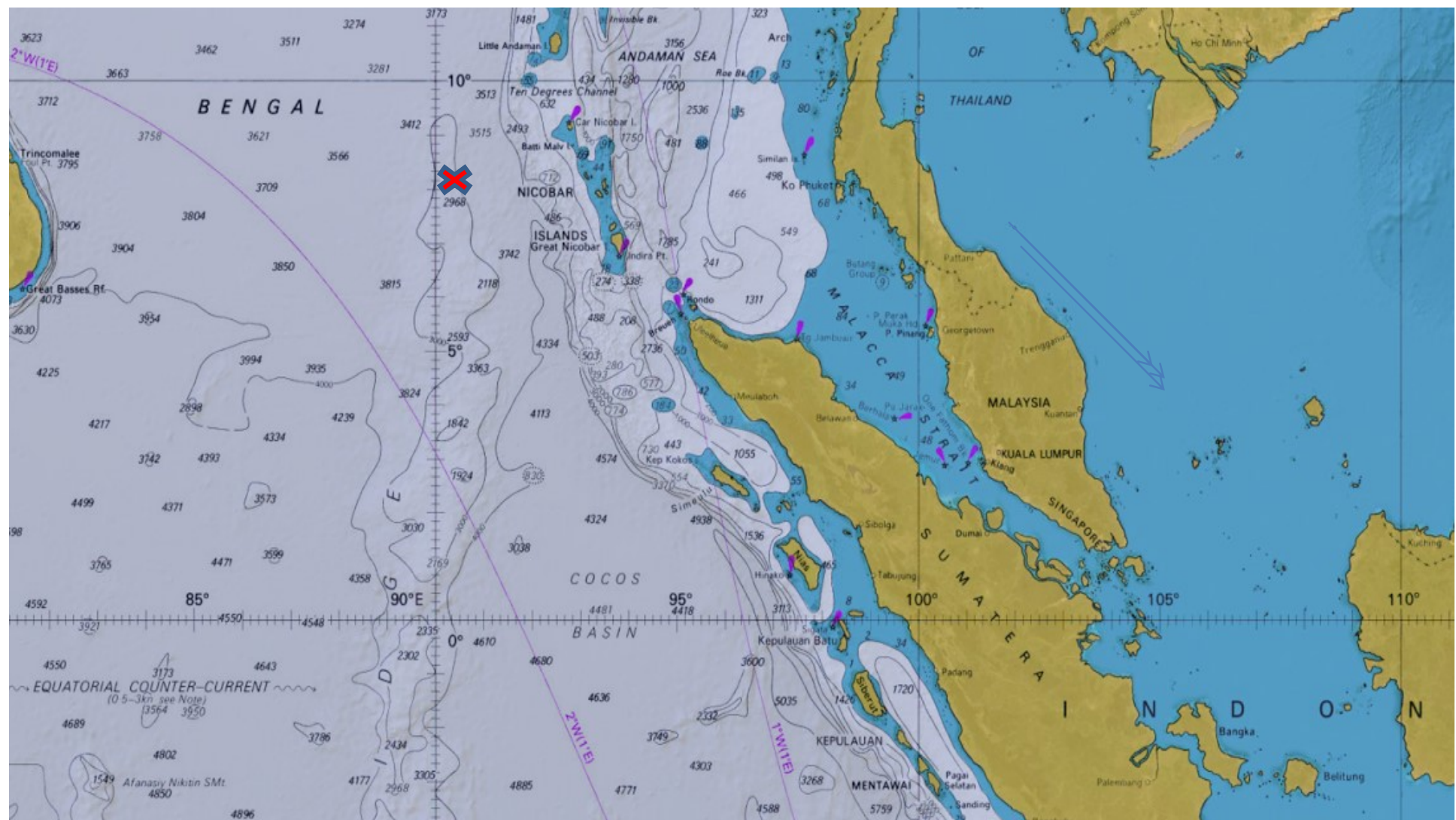








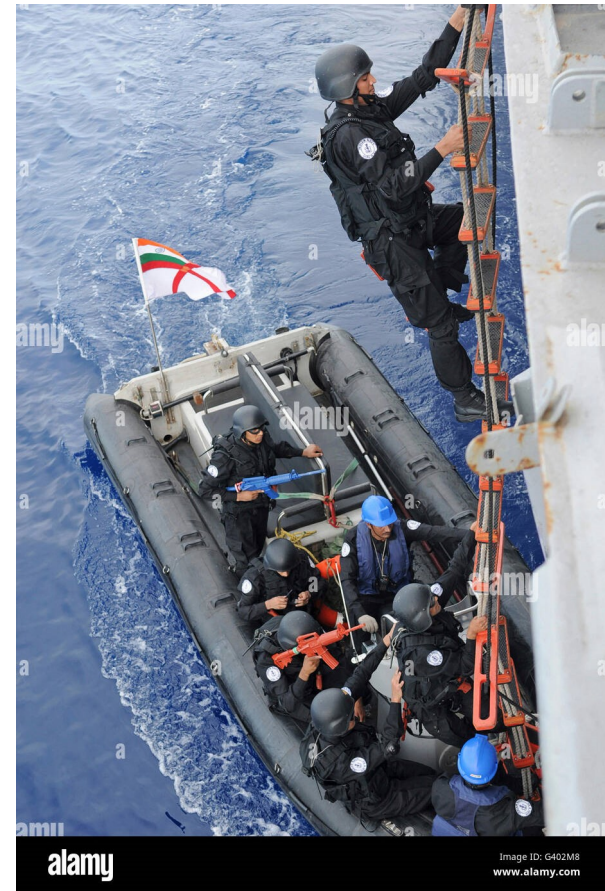






SUBMARINE AT PERISCOPE DEPTH
-OFF HARBOURS
-AT CHOKE POINTS





VISIT BOARD SEARCH SEIZURE (VBSS)

CHECKING A VESSEL'S PAPERS – CHARTS ,DOCUMENTS , CREWLIST ,BILL OF LADING

RUMMAGING A VESSEL

PLACES WHERE A CONTRABAND COULD BE HIDDEN

EVIDENCES IN A VESSEL –GPS ,THURAYA , WEAPONS, LITERATURE







SNOOPERS



**USS BOWDITCH - MARINE SCIENTIFIC SURVEY
(MSR)**

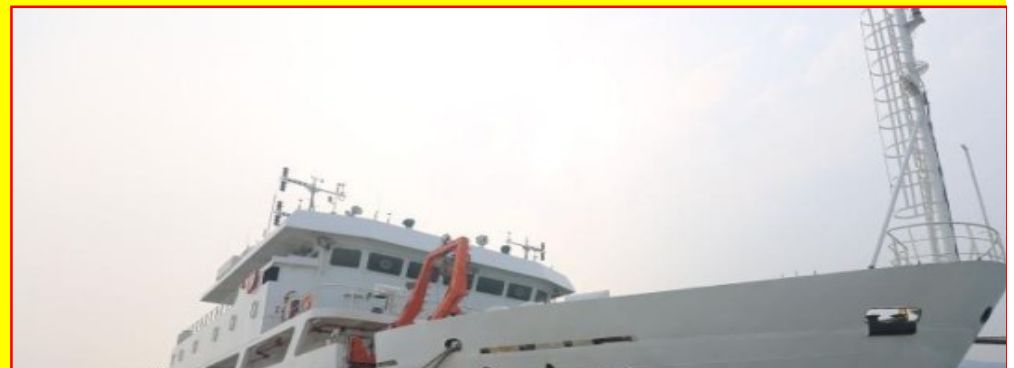
- MARINE SCIENTIFIC SURVEY
- HYDROGRAPHIC SURVEY
- MILITARY SURVEY

- EQUIPMENT MAY BE SIMILAR
- ULTIMATE USE MAY BE DIFFERENT

DEPTH /PRESSURE/TEMP /SALINITY
CURRENTS , TIDES
BOTTOM PROFILE

- SUBMARINE OPERATIONS
- RESOURCES , CRUDE , MINERAL,

CHINESE RESEARCH VESSELS IN IOR



SEA WING GLIDER(HAIYI)-UNMANNED
UNDERWATER VEHICLE



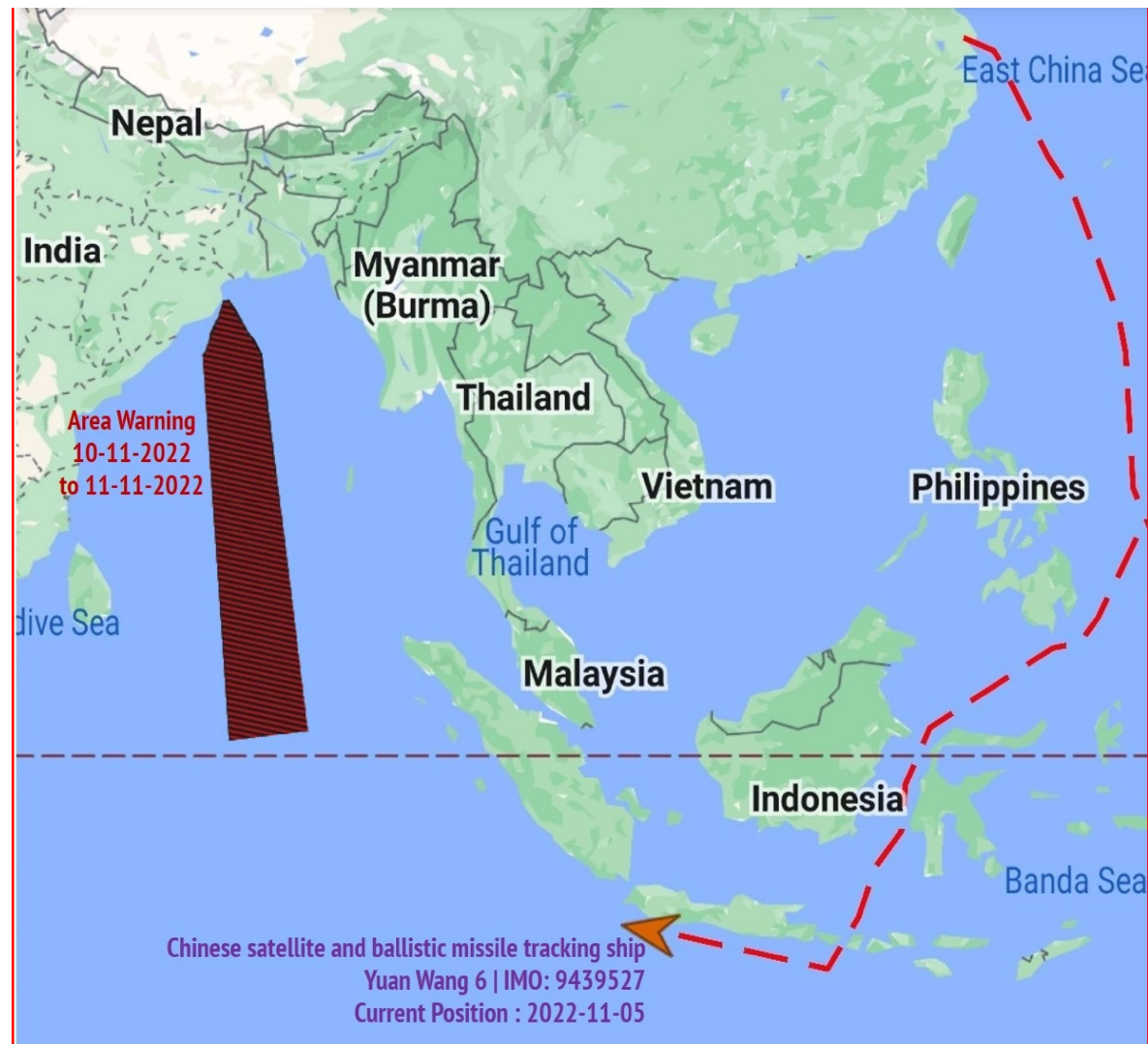
YUAN WANG





© Hansfair

 **FleetMon**
Tracking the Seven Seas





INDIA DEPLOYS WARSH

IN THE SOUTH CHINA S

DEPLOY **INS DHRUV** TO SOUTH CHINA SEA- VISIT
VIETNAM

First Satellite And Nuclear Missile Tracking Ship

INS Dhruv





NATIONAL LEVEL

PM MODI'S MARITIME MANTRA

OUT COME DOCUMENTS OF ALMOST ALL OF **PM MODI'S TALKS** WITH FOREIGN LEADERS WHETHER IN INDIA OR ABROAD INVARIABLY HAVE FOLLOWING COMPONENTS :

- MARITIME SECURITY & COOPERATION
- MARITIME INFORMATION AND INTELLIGENCE SHARING
- CYBER SECURITY
- COUNTER -TERRORISM

INTELLIGENCE ORGANIZATION

- NATIONAL SECURITY ADVISER (NSA)
- NATIONAL SECURITY COUNCIL SECRETARIAT (NSCS)-
- NATIONAL SECURITY ADVISORY BOARD (NSAB)
- DY NSA
- MILITARY ADVISER



INTELLIGENCE ORGANIZATION

➤ **RESEARCH & ANALYSIS WING** – R& AW – EXTERNAL INT AGENCY

AVIATION RESEARCH CENTRE –ARC

REPORTS TO PM

➤ **INTELLIGENCE BUREAU** –IB

OLDEST INT AGENCY /DOMESTIC INT / COUNTER INT – MHA

MAC / SMAC – CLEARING HOUSE

➤ **NATIONAL TECHNICAL RESEARCH ORGANIZATION (NTRO)**

SET UP AFTER KARGIL

CRYPTO , CYBER ,SATELLITES. UAV

INTELLIGENCE ORGANIZATION

- DGDIA –DIRECTOR GENERAL DEFENCE INTELLIGENCE AGENCY
- DG SI- DIRECTOR GENERAL SIGNAL INTELLIGENCE
- DIPAC- DIRECTORATE OF IMAGERY PROCESSING AND ANALYSIS CENTRE
- DEFENCE ADVISORS

- DGMI- DIRECTOR GENERAL MILITARY INTELLIGENCE

- ACNS (FCI)- ASSISTANT CHIEF OF NAVAL STAFF (FOREIGN COOPERATION & INTELLIGENCE)

- ACAS (INT)- ASSISTANT CHIEF OF AIR STAFF –INTELLIGENCE

- ICG –COAST GUARD INTELLIGENCE -LEAD INTELLIGENCE AGENCY AT SEA

- DRI –DIRECTORATE OF REVENUE INTELLIGENCE

- STATE INTELLIGENCE

WHAT INTELLIGENCE CAN DO

- WARNING OF POTENTIAL THREATS.
- DECISION ADVANTAGE, BY IMPROVING THE DECISION MAKING OF CONSUMERS AND PARTNERS WHILE HINDERING THAT OF ENEMIES.
- INSIGHT INTO KEY CURRENT EVENTS.
- DESCRIPTIONS OF ADVERSARY MODUS OPERANDI, INCLUDING TACTICS, TECHNIQUES, AND PROCEDURES LIKELY TO BE USED IN THE FUTURE.
- FOREIGN NAVIES –PLATFORMS , WEAPONS , SENSORS
- SITUATIONAL AWARENESS.

WHAT INTELLIGENCE CAN DO

- LOCATION ,DISPLACEMENT ,CAPABILITIES AND INTENTIONS OF ADVERSARY
- POSSIBLE ADVERSARY COURSE OF ACTION
- CUEING FOR SURVEILLANCE –FRIENDLY , NEUTRAL , HOSTILE
- IDENTIFY CENTRE OF GRAVITY AND CRITICAL VULNERABILITIES OF ADVERSARY
- FORCE PROTECTION
- TARGETTING INFO – eg :BRAHMOS , AGNI, PRITHVI ,
- BATTLE DAMAGE ASSESSMENT
- INFORMATION WARFARE , PSY –OPS / DECEPTION

Signs of Suspicious Activities:

- a) Photography of naval bases, bridges, maritime infrastructure, ports and harbours, off shore infrastructure etc. •
- b) Unusual activity, particularly late at night or early in the morning in above areas.
- c) Boats moving at night with no navigation lights and /or at high speed
- d) Vessels entering designated maritime restricted areas like nuclear plants, offshore areas, etc
- e) Someone asking to alter the usual route or trip, a boat charter takes.
- f) Efforts to gain employment at sensitive sites or with outside agencies that have access to potential targets.
- g) Suspicious craft in close proximity to vessels underway and at the docking facility.
- h) Tests of security - Attempts to test security and response times when entering restricted areas.

i) Individuals buying unusual equipment, chemicals, uniforms, badges, fast boats etc

j) Suspicious people buying land in coastal areas, unusual stocking of explosives(**Ammonium nitrate?**), unusual stocking of diesel and petrol, unusually large cash receipts in coastal bank accounts, etc.

k) Suspicious characters - people who are clearly not local and whose actions do not fit into the daily routine of the area. Crew of above average size or inadequate dress for the location.

MARITIME INTELLIGENCE - WHAT TO LOOK FOR?

- a) suspicious boats trying to land terrorists/ militants and arms / ammunition.
- b) dhows returning to India especially from piracy or terrorism prone areas.
- c) attempts by suspicious crafts to survey security of offshore assets.
- d) drug trafficking from golden triangle and golden crescent countries along our coastal route.
- e) surveillance / vigilance for nefarious maritime activities.
- f) use of ships or containers to smuggle explosives to attack major ports.

- g) use of small high speed boats laden with explosives to target oil tankers or offshore energy platforms.
- h) use of small craft to fire RPGs and shoulder fired SAMs in harbour and off coastal airports.
- i) hijacking of a tanker and using it as a floating bomb or as a launch platform for strikes on vital port infrastructure.
- j) sinking a ship in the mouth of narrow harbour like mangalore to block operations.
- k) attempts to target cruise liners and tourists therein in harbour or when entering or leaving harbour.

MARITIME INTELLIGENCE & INFORMATION SHARING



➤ INTELLIGENCE & INFORMATION SHARING WITH LARGE NO OF COUNTRIES

STRATEGIC AGREEMENTS

UNITED STATES

QUAD

- LOGISTICS EXCHANGE MEMORANDUM OF AGREEMENT (LEMOA) 2016
- ACCESS TO DIEGO GARCIA , GUAM , DJIBOUTI
- COMMUNICATIONS COMPATIBILITY AND SECURITY AGREEMENT (COMCASA) -2018
- MISTA- MARITIME INFORMATION SHARING TECHNICAL AGREEMENT
- BASIC EXCHANGE AND COOPERATION AGREEMENT (BECA)- FOR GEOSPATIAL INFO
- 2+2 DIALOGUE

JAPAN

QUAD

- LOGISTIC SUPPLY AGREEMENT (LSA) -
- 2+2 DIALOGUE

AUSTRALIA

QUAD

- MARITIME LOGISTIC SUPPLY AGREEMENT (MLSA)
- 2+2 DIALOGUE

- **VIETNAM**

- **SINGAPORE**

- **TAIWAN**

- **NSA LED TRILATERAL INTELLIGENCE SHARING WITH SRI LANKA, MALDIVES HELD IN COLOMBO RECENTLY AFTER A GAP OF SIX YEARS .**
- **MAY INCLUDE MAURITIUS AND SEYCHELLES IN DUE COURSE**
- **SHARING OF WHITE SHIPPING INFORMATION WITH 29 COUNTRIES**

WHITE SHIPPING INFORMATION

REFERS TO AN EXCHANGE OF RELEVANT ADVANCE **INFORMATION** ON THE IDENTITY AND MOVEMENT OF COMMERCIAL NON-MILITARY MERCHANT VESSELS.

INFORMATION SHARING

- INFORMATION FUSION CENTRE (IFC) -IOR – GURUGRAM –
- REGIONAL MARITIME INFORMATION FUSION CENTRE (RMIFC)- MADAGASCAR
- EUROPEAN MARITIME AWARENESS INITIATIVE - STRAITS OF HORMUZ (EMA-SOH) ABU DHABI
- INFORMATION FUSION CENTRE SINGAPORE (IFC /SG)
- INDO-PACOM HAWAII

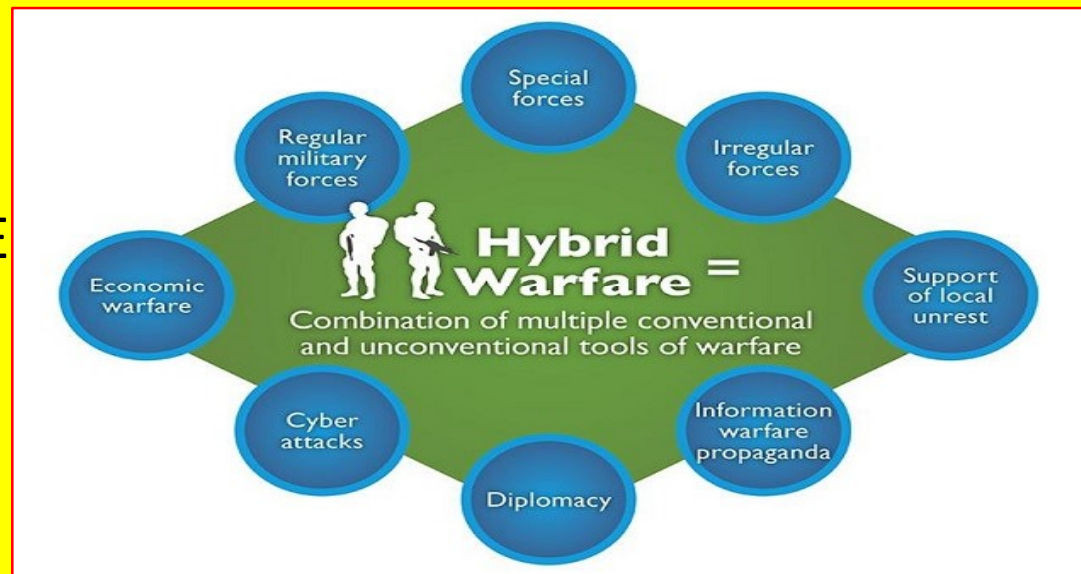


PIRACY- INFORMATION SHARING

- RECAAP- REGIONAL COOPERATION AGREEMENT ON COMBATING PIRACY AND ARMED ROBBERY AGAINST SHIPS IN ASIA –SINGAPORE
- SHADE- SHARED AWARENESS AND DECONFLICTION – AT BAHRAIN
- CGCPS – CONTACT GROUP ON CONTROLLING PIRACY AT SEA
- UK MTO – UK MARITIME TRADE OFFICE
- MSCHOA- MARITIME SECURITY CENTRE –HORN OF AFRICA –BREST
- INTERNATIONAL MARITIME BUREAU- PIRACY REPORTING CENTRE -KUALA LUMPUR

INTEL MUST CATER FOR HYBRID WARFARE

CYBER THREAT- MARITIME
INFORMATION WARFARE
ELECTRONIC WARFARE
NETWORK CENTRIC WARFARE
PROXY WAR
DRONE WARFARE
PSY-OPS
SOCIAL MEDIA CAMPAIGN



- ARTIFICIAL INT
- MACHINE LEARNING
- DATA ANALYTICS

INTELLIGENCE – INCIDENTS

- 1. 1971 GLORIOUS HOUR**
- 2. 1993 MUMBAI BLASTS ,**
- 3. KARGIL ,**
- 4. 26/11**
- 5. GALWAN INCIDENT**

➤ INTELLIGENCE FAILURE

➤ LACK OF ACTIONABLE INTELLIGENCE

➤ KARGIL REVIEW COMMITTEE

➤ TASK FORCE ON REFORMING INTELLIGENCE WAS LED BY SHRI GIRISH SAXENA , FORMER RAW CHIEF AND GOVERNOR OF J& K

➤ WASTED OPPORTUNITY

RELUCTANCE TO SHARE INFO



- PASS TO OWN BOSSES FIRST – WISH TO TAKE CREDIT
- UP THE LINE FIRST – THEN Laterally
- TO CORRECT ACTION TAKING AGENCY
- AVOID COMPROMISE OF OWN SOURCES
- FEAR OF EXPOSING AGENCY'S INDEQUACY
- US – PATRIOT ACT 2001 AFTER 9/11
- WE REQUIRE AN ACT OF PARLIAMENT

26/11

- NO ENQUIRY AT NATIONAL LEVEL
- WAS INTELLIGENCE AVAILABLE ?
- WAS NATIONAL LEADERSHIP INFORMED OF IMPENDING ATTACK
- NSCS- INTELLIGENCE AGGREGATOR -FAILED TO CONNECT THE DOTS
- WHAT WAS THE ROLE OF LIA ?
- NO HEADS ROLLED
- NO MAJOR RESTRUCTURING OF INTELLIGENCE AGENCIES UNDERTAKEN POST 26/11

CONCLUSION

- **INDIA - INTELLIGENCE IS THE PRESERVE OF THE POLICE**
- **INTELLIGENCE TOO IMPORTANT TO BE LEFT TO POLICE**
- **NEED FOR RADICAL INTELLIGENCE REFORMS**
- **NEED FOR A SEPARATE CADRE OF SECURITY PROFESSIONALS IN THE CIVIL SERVICE**
- **AREA SPECIALIZATION**
- **LANGUAGE EXPERTISE – LIVING & WORKING IN TARGET COUNTRIES**
- **LESSONS FROM KARGIL**
- **LESSONS OF -26/11**

- **TRI SERVICE INTELLIGENCE TRAINING CENTRE**
- **SPECIALIZED MARITIME INTELLIGENCE TRAINING CENTRE - CUSTOMS , MARINE POLICE**
- **WITH AN INCREASINGLY AGGRESSIVE CHINA , NEED FOR INTELLIGENCE WILL INCREASE**

THANK YOU



PREVIEW

- INFORMATION& INTELLIGENCE
- NATURE OF INTELLIGENCE
- SCOPE OF INTELLIGENCE
- ATTRIBUTES OF INTELLIGENCE
- INTELLIGENCE CYCLE
- PLATFORMS & SENSORS
- DISCIPLINES OF INTELLIGENCE
- INTELLIGENCE ORGANIZATION
- WHAT CAN INTELLIGENCE DO ?
- MARITIME DOMAIN AWARENESS
- SLOC MONITORING
- INT& INFO SHARING