

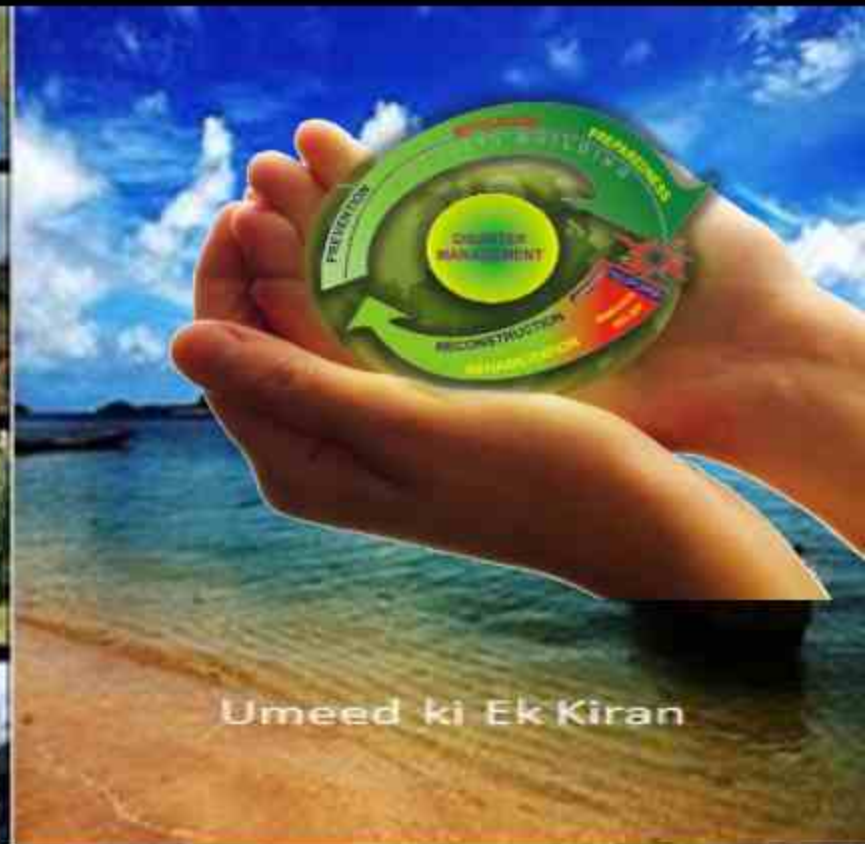


। R e s t ; r s

# DIRECTORATE OF DISASTER MANAGEMENT, ANDAMAN AND NICOBAR ADMINISTRATION

[www.ddm.and.nic.in](http://www.ddm.and.nic.in)

## DISASTER PREPAREDNESS IN ANI



Umeed ki Ek Kiran

## A & N ISLANDS AT A GLANCE

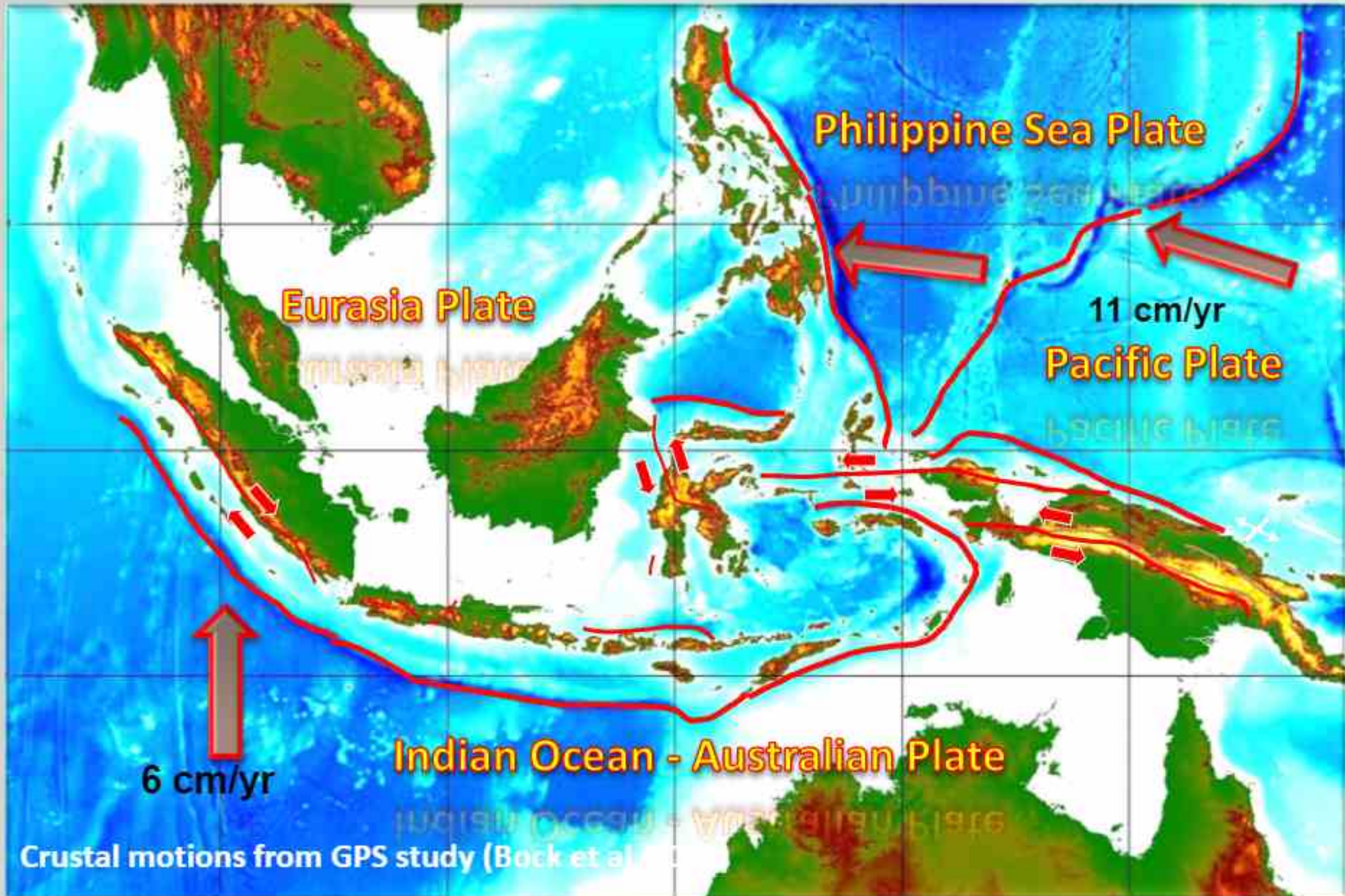
No. of Islands	608
Inhabited Islands	36
Area	8249 sq.kms.
Population-2011	3.86 lakhs
Literacy Rate	86.27% (2011) (M-90.11%,F-81.84%)
Tribal Population	29469
Total Forest Area (Reserve + Deemed + Mangroves + Wetlands)	7728.04 sq.kms. (93.7 %)
Coastline (excluding creeks)	1962 kms. (1/4 <sup>th</sup> of India's coastline)
Exclusive Economic Zone (EEZ)	6 Lakhs sq.kms. (30% of India's EEZ)
Seismic Zone	V (Most severe)

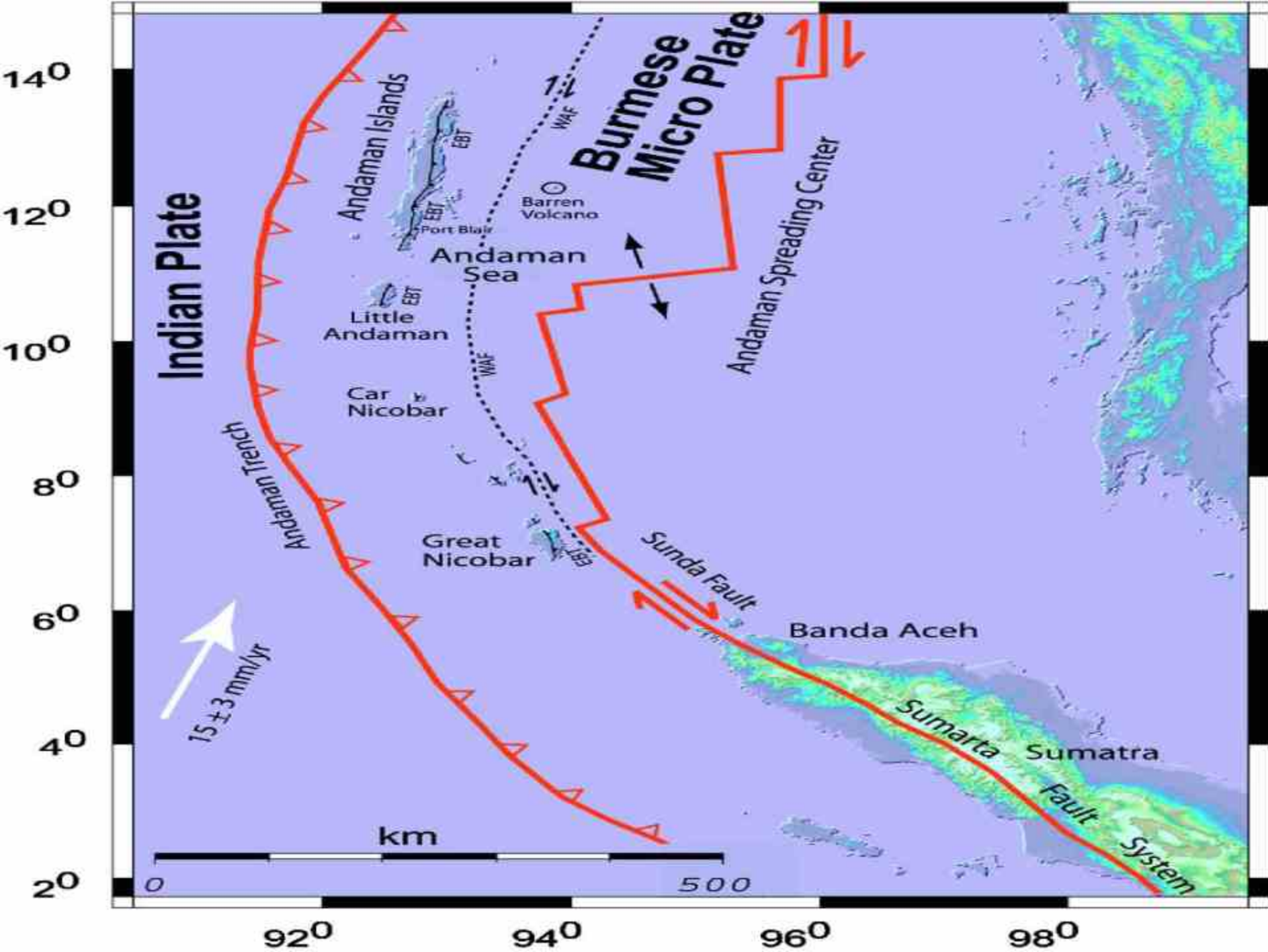
## TECTONIC PLATES AND AREA OF CONCERN





# Tectonic Setting and Seismicity





# VULNERABILITY PROFILE OF ANDAMAN & NICOBAR ISLANDS

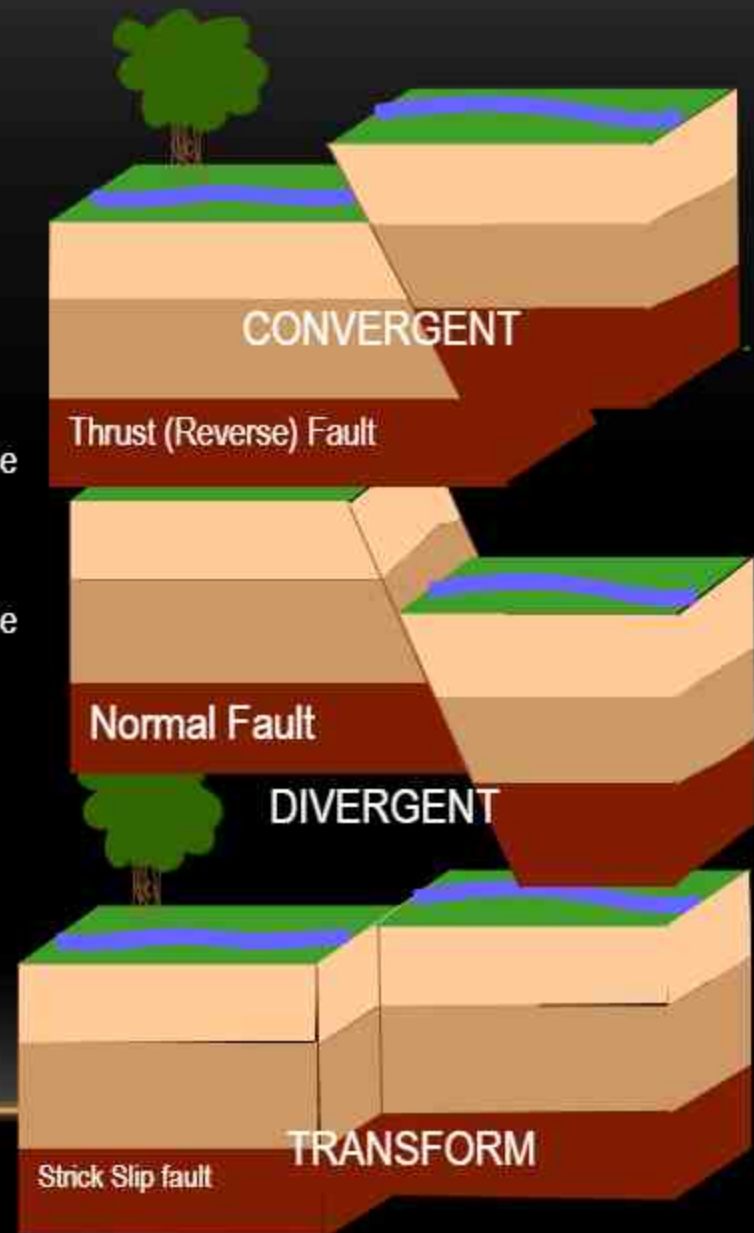
## Geological Disaster

- Earthquake ★
  - > 6.5 and if Epicenter is 10 to 100 km beneath the sea floor
    - Sinkholes on earth +
- Tsunami : +
- Volcanoes :
  - Active Volcanoes** ★
    - Barren Island- Erupted in 1803, 1891, 1995 and 2005. Can be cause of Earthquake, Tsunami and Pyroclastic flow
  - Dormant Volcanoes**
    - Narcondum Island volcano is dormant for centuries. Can be a cause of Earthquake, Tsunami- etc.
- Global Warming
- Land Slides

## Hydro meteorological Disaster

- Cyclone
- Flood
- Storm surge

Interplay of various Risks

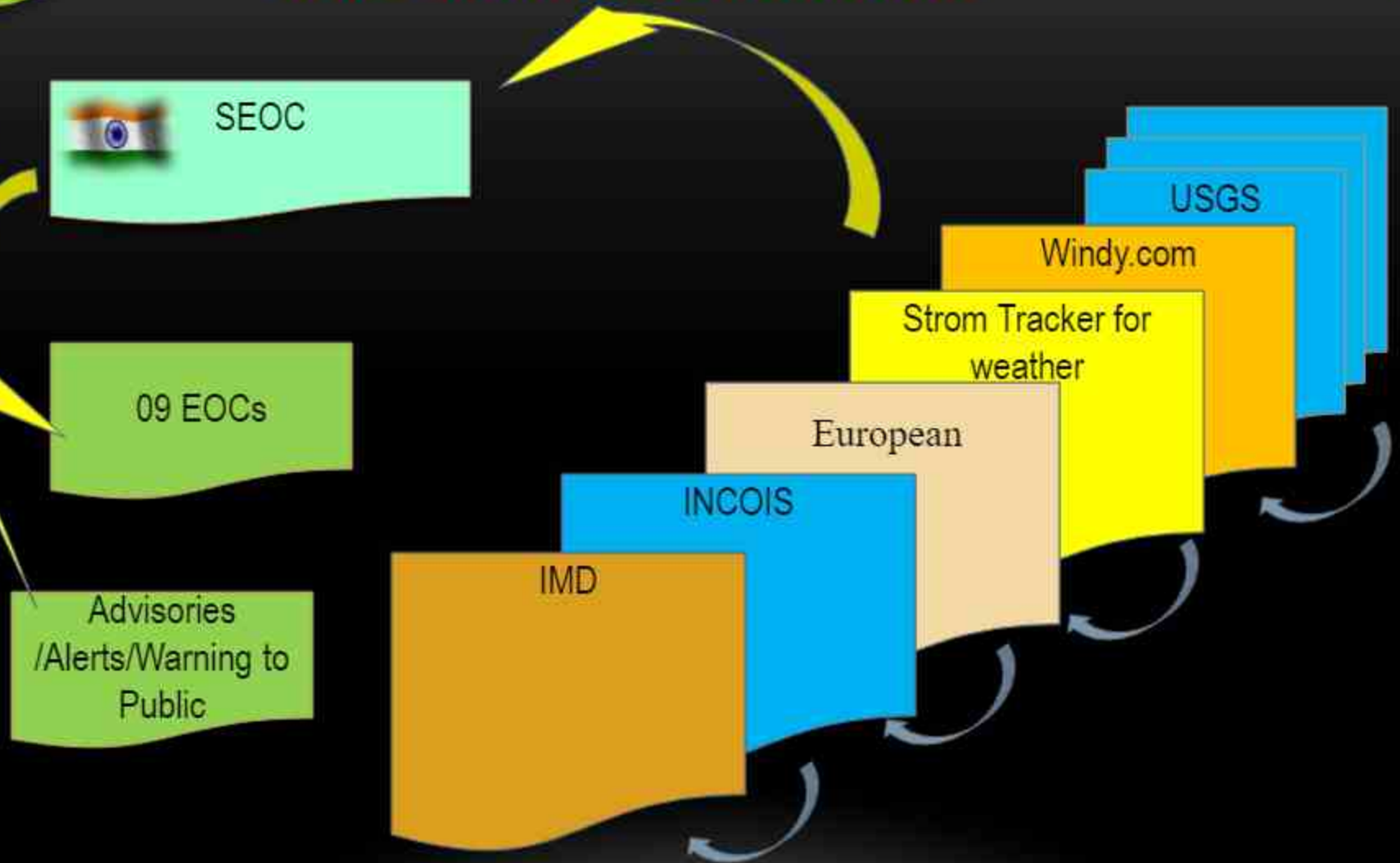


**OUR PREPAREDNESS**

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# STATE CONTROL ROOM (SCR) MONITORING GEOLOGICAL AND HYDRO-METEOROLOGICAL DISASTER



**THREAT STATUS AND BULLETINS ISSUED BY INCOIS AND IMD :**

**THREAT STATUS:  
BULLETINS:**



## EMERGENCY EARLY WARNING SYSTEM

- 40 iSAT Phones<sup>2</sup> are in place
- Electronic Display Board for regular info of weather, tide amplitude EQ and T Waves has been installed in and around the Islands.
- 4VSAT of INCOIS, MHA, BSNL NDMA Installed
- VHF Sy. With Police, PMB, Elec., Forest & DSS.
- Video Conferencing with MHA and 8 EOCs.
- MHA Linked through Disaster Mgt. System (DMS)
- VOIP linked with 41 stations (DM) of 18 states of mainland
- 10 Hotline established with INCOIS, ANC and 6 EOCs.
- C-DAC (Centre of Development of Advance Computing) System installed for SMS Burst.
- Toll Free Helpline No.1070 (SEOC) & 1077 (District EOC).



## ➤ THE FOLLOWING BOOKS HAVE BEEN PUBLISHED BY DIRECTORATE OF DISASTER MANAGEMENT:

1. *A&N Islands Disaster Management Plan-2012 reviewed and updated on 2017*
2. *Mock Disaster Management Exercise Debriefing Report-2013*
3. *Standard Operating Procedure- Natural Disaster*
4. *Standard Operating Procedure-Hydro-meteorological Disaster.*
5. *Monsoon Preparedness and Response Plan in ANI*
6. *Manual for conduct of State Level Mock Disaster Management Exercise- Jeevan Raksha-2016 "JeRaMo-16"*
7. *Manual for Terrorist Outrages.*
8. *Manual for conduct of Mock DM Exercise- Jal Raksha-15-16 on Boat Capsize*
9. *Manual for conduct of Mock DM Exercise on Air Accident- Vayu Raksha-16*
10. *Manual for conduct of Mock DM Exercise on Road Accident- Sadak Suraksha-15-16*
11. *Manual for conduct of Mock DM Exercise on Oil Spill Response -16*
12. *Guidelines for School Safety Programme.*
13. *Community Based Disaster Risk Management Programme in ANI*
14. *Model Gram Panchayat Disaster Management Plan.*
15. *School Fire Safety Management Plan*
16. *School DM Plan (Hindi)*
17. *School Safety*
18. *Flood – Children and School(Hindi)*
19. *IEC Activities undertaken*
20. *Contingency Plan – COVID – 19*
21. *Combating COVID-19 in ANI*

# INSTITUTIONAL ARRANGEMENTS

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➤ **THE A&N ADMINISTRATION HAS CONSTITUTED THE FOLLOWING AUTHORITIES UNDER SUB-SECTION (1) OF THE SECTION 14 , SECTION 20 & SECTION 25 OF THE DISASTER MANAGEMENT ACT, 2005:-**

1. A&N Islands Union Territory Disaster Management Authority has been constituted under the chairmanship of Hon'ble Lt. Governor, A&N Islands vide Notification No. 01/2008 dated 9.1.2008.
2. A&N Union Territory Disaster Management Executive Committee has been constituted under the chairmanship of Chief Secretary, A&N Admn. vide Notification No. 2/2008 dated 9.1.2008.
3. District Disaster Management Authorities for all the three Districts has been constituted vide Notification No. 03/2008 dated 9.1.2008.

# DISASTER RESPONSE SYSTEM IN ANI

## ➤ **INCIDENT RESPONSE TEAMS (IRTS)**

IRTs have been identified with pre-designated roles and responsibilities to function at UT, district, sub-division and tehsil levels as per the Incident Response System of NDMA.

## ➤ **ANDAMAN & NICOBAR DISASTER MANAGEMENT PLAN:**

The ANI DM Plan 2012 has been prepared in 2012 and has been reviewed in 2017 which provides for measures to be taken and system to be established for disaster management under NDMA's Incident Response System Guidelines.

## **Disaster Management Coverage to all inhabited Islands :-**

In view of typical geographical constraints of the UT having 36 inhabited Islands separated by vast stretches of sea the Administration, in the smaller Islands where an officer of Revenue Department (District Administration) not below the Rank of Tehsildar is not posted, the senior most officers of any other department has been notified as **“Responsible Officer”** and **“Assistant Responsible Officers”** for the purpose of Disaster Management. With these arrangements, the concept of **Island level SOP** is also introduced.

# IMPLEMENTATION OF NDMA PROJECTS

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## **A. CAP (COMMON ALERT PROTOCOL)**

- **MoU under CAP signed, SB Account opened and HR support is in process.**
- **CAP and ERSS will also be included in ICCC in 3<sup>rd</sup> phase by NDMA and CDAC.**
- **SACHET portal is not yet functional in ANI due to account opening is denied.**

## **B. UPSCALING OF AAPDA MITRA SCHEME**

- **State and District level Nodal Officers have been nominated and sent to NDMA.**
- **Proposed for training 300 Community Volunteers out of which 100 volunteers from Nicobar District and 92 volunteers from N&M Distract have been finalised and training will be imparted.**
- **MoU signed between A&N Administration and NDMA.**
- **A dedicated SB Account also been opened.**
- **Plan of Action and Tentative Training Schedule have been prepared and sent to NDMA.**

## **C. ICCC (INTEGRATED COMMAND CONTROL CENTRE) UNDER SMART CITY PROJECT**

- **SEOC will be accommodated all Control Rooms of line Depts . to create Integrated Command Control Centre (ICCC) under a State of Art Communication System.**

## **SENDAI FRAMEWORK**

Under SFDRR - Selection of Sr. Consultant in process, interview differed to the next FY.

## **DISASTER MITIGATION PROJECT NCRMP**

- ❑ Nodal Officer and training personnel has been nominated and nomination was sent to NDMA for Web DCRA-DSS tools
- ❑ as per the RIMSI the specification of the Operating system of the computer has been upgraded.

## **SDRF**

Under SDRF identified 109 personnel from various ranks belonging to Fire Services, IRBn and Home Guard of A&N Police trained for SAR operation.

Short Training Courses on Disaster being organised .

Proposal for creation of 258 posts for SDRF (06 Sub-Divisions in ANI) sent to MHA

# **DRR INITIATIVES IN UT**

- **DDM activated Social Media Portal, Viz, Twitter, Facebook, Instagram, Koo App Etc**
- **Incident Response Teams notified in ANI**
- **Raising Of State Disaster Response Force – proposal for 258 posts mooted to MHA**
- **Action initiate for raising of Civil Defence in the Districts.**
- **Implementing Aapda Mitras scheme**
- **Implementing Community Based Disaster Risk Management Programme**
- **Implementing Disaster Management In Higher Education**
- **Conducted Disaster Management Exhibitions and Mock Drills**
- **Conducted 02 State level Mock Drills and Table Top Exercises**
- **Conducted IRS Trainings**
- **Prepared Island level Resource Management Inventory.**
- **Updation of India Disaster Resource Network (IDRN) regularly.**
- **Information Education And Communication (IEC) Activities taken over.**
- **School Safety Programme implemented in 412 schools.**

WAY AHEAD

## NEW INITIATIVES

### **A. Road Map for Disaster Risk Resilient Andaman and Nicobar Islands:-**

**Project I:** Installation of Doppler weather radar at Port Blair.

**Project II:** Establishing Emergency Operation Centres and Control Rooms in all the inhabited islands

**Project III:** Permanent stationing of a unit of SDRF at all Sub-Divisional Headquarters

**Project IV:** Construction of Tsunami Relief Shelters

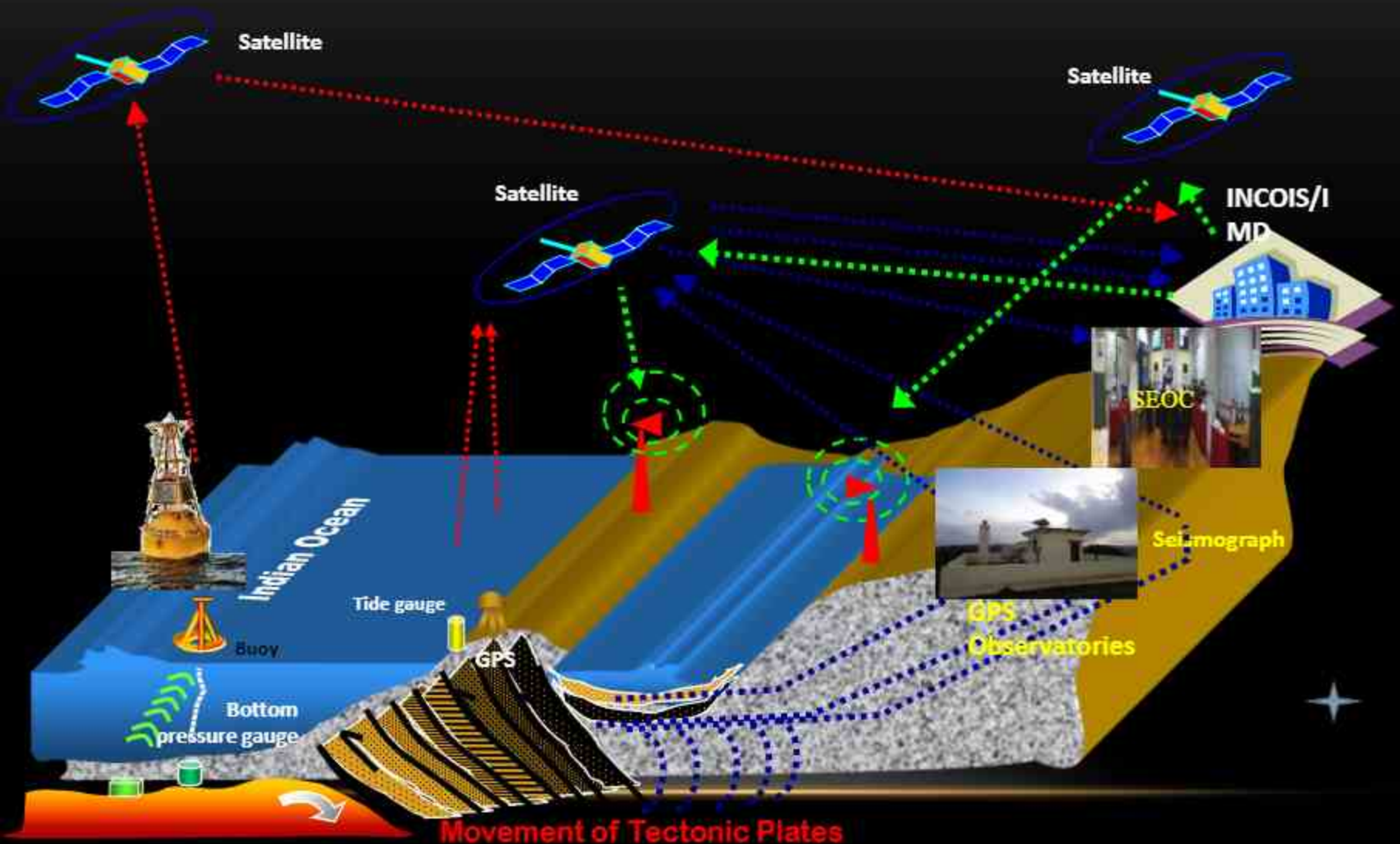
**Project V:** Hazard, Vulnerability and Risk Assessment of all Inhabited Islands

**Project VI:** Disaster Management component to be kept in the Annual Plan of all the departments of the Administration

**Project VII:** Establishment of a Chapter of NIDM at Port Blair for regular capacity building training of disaster managers, teachers as well as the community.

**Project VIII:** Upgradation of ICCC and its dissemination process with CAP and SACHET

# EARTHQUAKE MONITORING AND DISSEMINATION



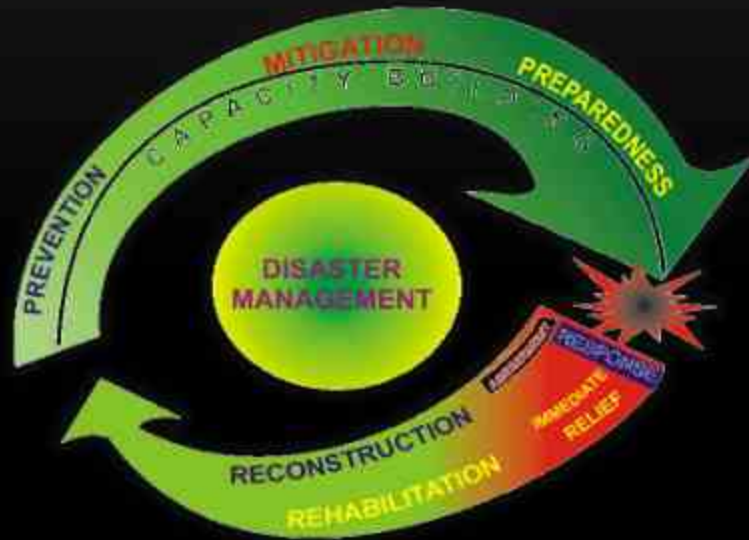
# Way Ahead:

## ➤ **Critical areas for support, guidance and technology transfers etc.**

- ✓ *Identifying the gaps in last mile connectivity and filling up the gaps in communication.*
- ✓ *Automated sirens with public address system at all vulnerable locations*
- ✓ *Enhancing community participation in Disaster Risk Reduction*
- ✓ *Up-gradation of SEOC and EOCs.*
- ✓ *Upgrading skills of officers and their capacity building in the field of Disaster Management*
- ✓ *Mission mode approach to disaster management.*
- ✓ *Technical assistance for the construction of SEOC and EOCs*

## ➤ **Future prospects:**

- ✓ *Expansion of range of Radar at Southern Group of Islands*  
*At present the sea is under video surveillance of CG*
- ✓ *Enlargement and Strengthening of Air Field of Great Nicobar.*
- ✓ *Imposing restrictions for the oil liners of eastern countries before entering in the Sunda Strait*
- ✓ *Establishment of DWR for Now Forecasting*



*Be safe and save lives*

*By : Tks Ajayan, Asst. Director (ops)*