

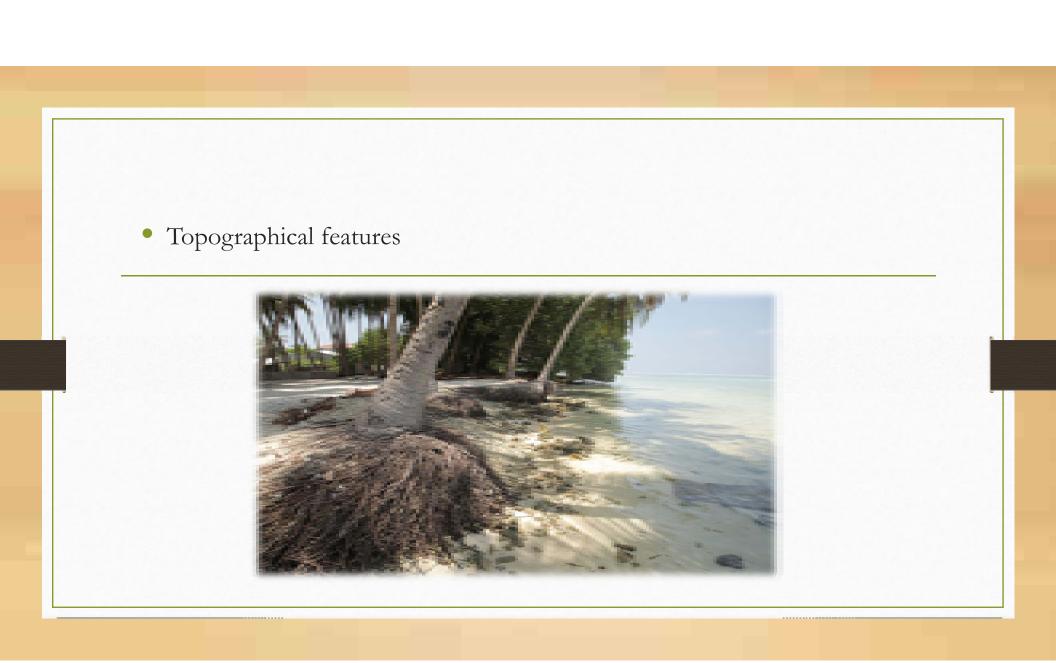
Background

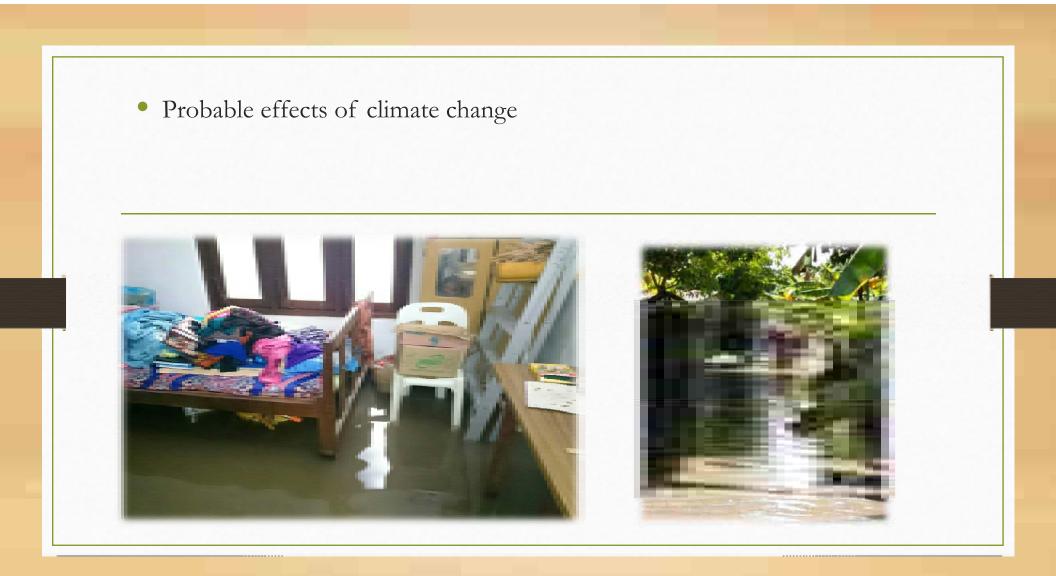
- The disaster risk scenario for Maldives can be described as moderate in general.
- Despite this, Maldives was severely affected by the Indian Ocean tsunami.
- The tsunami caused severe damages to the physical infrastructure of many islands.
- 108 lives were lost.
- The economic loss amounted to 62 per cent of the Gross Domestic Product or GDP (World Bank, 2005).

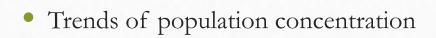
Vulnerability

Geographical location











• Nature of economy

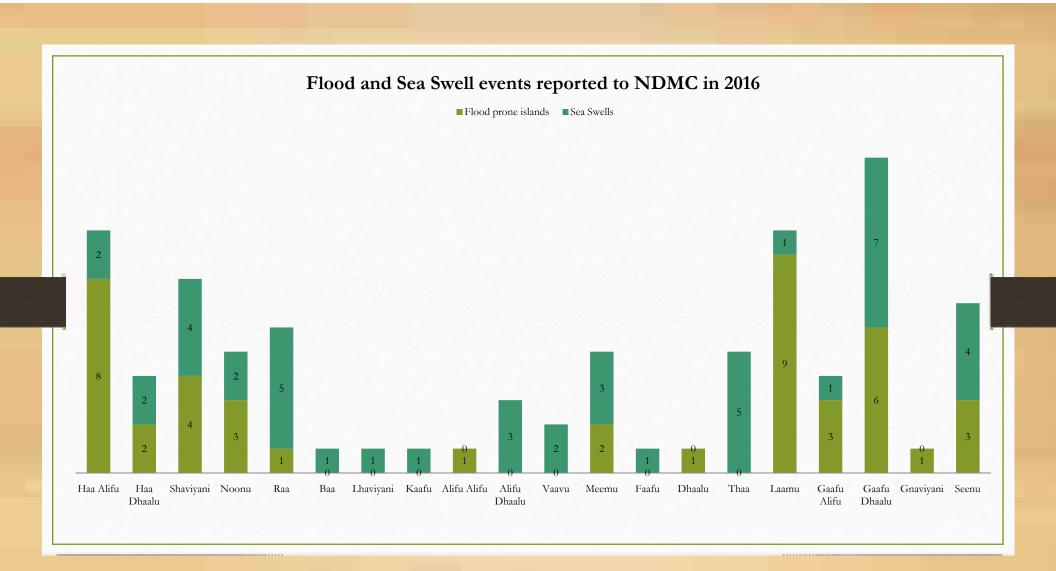
Hazard : Tsunami

Three main tsunami source zones have been identified on the basis of seismotectonics and historical events.

- Sunda Arc including three segments of Sumatran Subduction Zones.
- 2. Transform Fault Zone in Carlsburg Ridge
- 3. Makran Coast region

Hazard : Storm

- Affected by severe local storms- thunder storms/ thunder squalls.
- Besides heavy rains and strong winds during monsoons, hazardous weather events which regularly affect Maldives are tropical storms/cyclones.
- Cyclonic winds sometimes can cause a sudden rise in sea-level along the coast, leading to a storm surge (Udha).



October 2012 - Impacts of Cyclone Neelam

52 islands were flooded, 3 severely flooded. The worst was Haa Alifu Hoarafushi



Photo credits Sun Media

November 2015 - Record Rain Fall – Addu City Feydhoo

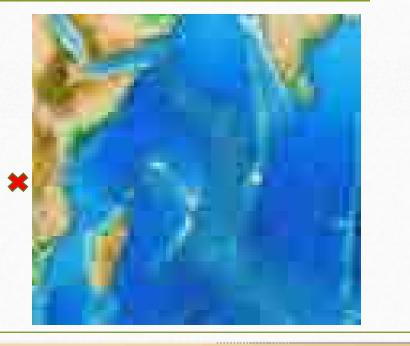
Sudden event without any warning, 228mm in approximately 5 hours



Photo credits Sun Media

Hazard: Earthquake

• The southern islands of the Maldives are threatened earthquakes from the seismis zone of Carlsberg Ridge.



Hazard: Fire

- The rise in urbanization has increased the hazard of fire in Male'.
- In addition, the geographical dispersion of the islands makes it a challenge for the first responders to attend incidents.
- A total of 7 fire stations have been established across the country.

Hazard: Fire

Fire Stations have been established in

- 1. Haa Dhaal Kulhudhuffushi
- 2. Lhaviyani Naifaru
- 3. Dhaalu Kudahuvadhoo
- 4. Laamu Kahdhoo
- 5. Gaafu Dhaal Thinadhoo
- 6. Gnaviyani Fuvahmulah
- 7. Seenu Hithadhoo

Disaster Risk Reduction Act

- First act enacted on October 2006
- Amended and rectified on 6 September 2015
- This Act refers to the responsibility of the State to protect its people, their health and well-being, their property, and the natural and built-up environment they live in from natural and man-made disasters, and hazards.

Disaster Risk Reduction Implementation

- Several Soft and Hard intervention tools are being used by Maldives in DRR.
- Main programs include
 - ✓ Community Based Disaster Risk Management program
 - ✓ Flood mitigation projects for islands
 - ✓ CAP on a MAP
 - ✓ Loan Scheme
 - ✓ Insurance Scheme
 - ✓ Building partnerships

Community Based Disaster Risk Management

- CBDRM Programs commenced in 2013.
- Program has been conducted in 51 islands.
- Main outcome: Disaster Management Plan at island level.
 - ✓ Response plan
 - ✓ Mitigation Plan
 - ✓ Community Emergency Response Teams formed.
 - ✓ Regular emergency drills carried out.
- Improves the overall resilience of the community



Dhandhaana System (Cap On a Map)

- Sends out alert messages to all disaster focal points.
- Message goes out as text, email and also via RSS feed.
- Contact information of disaster focal points from all islands, government companies, corporations and major NGOs have been collected.
- Message will go out immediately to the disaster focal points, in case of a disaster.

Flood Mitigation project

- Flood mitigation equipment being provided for the islands in order to enhance response time.
- Pump, pump storage facility, dewatering accessories are all provided for the islands.
- Island communities are empowered to respond to the disasters without having to wait for support to arrive.
- 2 pump systems per island.
- Will further integrate with CBDRM program and CERTs where they will be trained to use the pump systems effectively.



Disaster Loan Scheme

- Introduced in 2016.
- Loan scheme introduced under MOU signed with BML.
- BML provides loans up to 40% of the total costs to recover from total damage.
- Has a long term repayment period of 15 years.
- Provides a maximum loan amount of MVR 510,000
- Interest rate is 9% (lowest interest rate by BML)
- One year grace period

The Disaster Insurance Scheme

- MOU with Allied Islamic window Ayady Takaful to introduce an insurance scheme that covers all natural disasters and fire incidents.
- Compensation for infrastructural and structural damages to buildings and properties.
- Individuals joining the scheme have to pay 0.18% every year for the insured infrastructure and properties.
- Scheme also has further add-on packages.

Building partnerships

- Enhancing existing partnerships with the local island councils and atoll councils.
- Building new partnerships with the major stakeholders of Disaster Management from public and private sector.
- Strengthening partnerships with international organizations.
- Bringing together government agencies to build the conversation to carryout DRR activities and successfully implement SFDRR.

Challenges

- The dispersed islands make it difficult to reach out.
- Less number of trained people
- Goods are mostly imported and it affects when other countries are effected.
- Due to the weather changes fishing rate has decreased

Recommendations

- Capacity building and Training more people
- Exchange of knowledge.
- Include DRR in school curriculum.

