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Disaster Management Centre (IU)

Sri Lanka

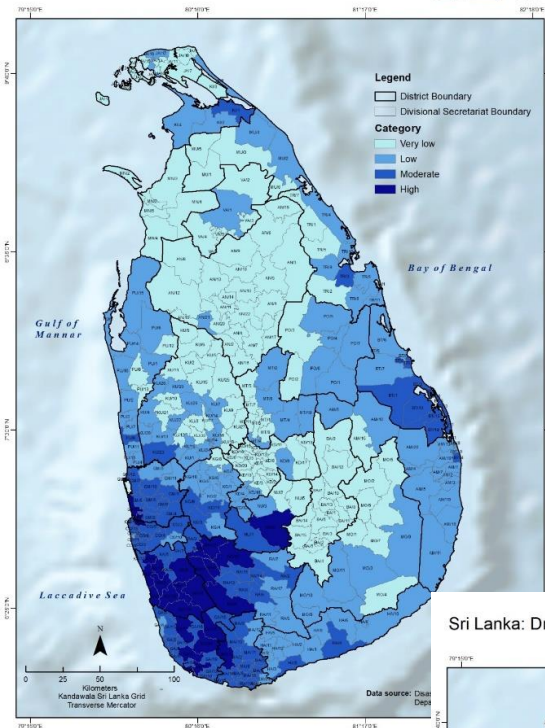
Climate Risk Management in a Changing Environment



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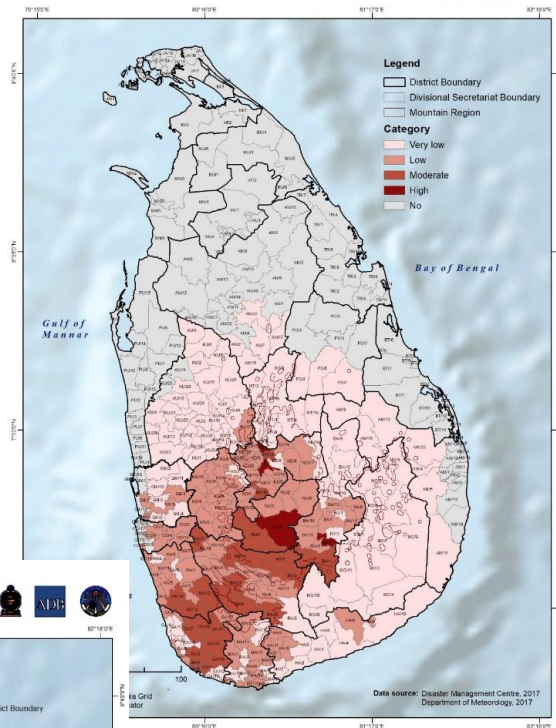
Disaster Management Centre (IU)

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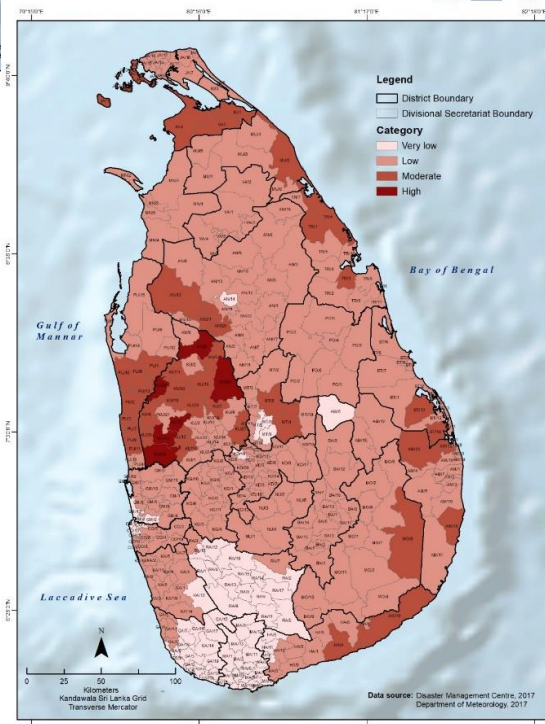


Climate change related impacts

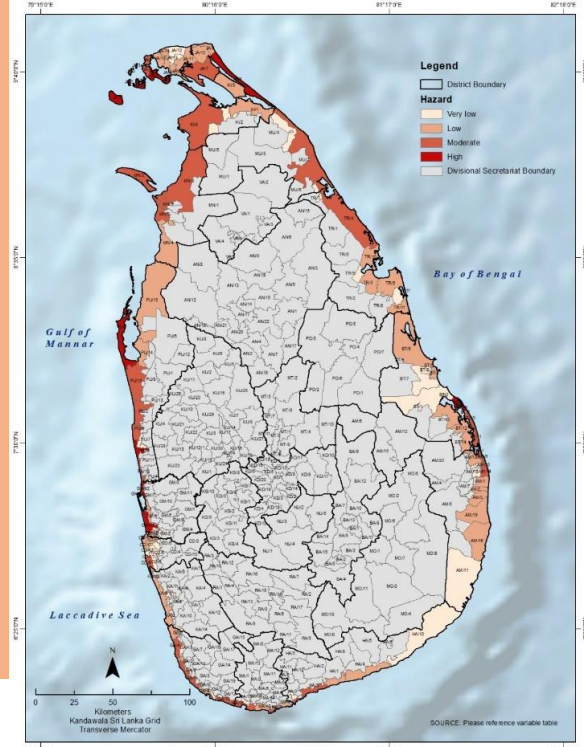
- Prolong droughts
- Flash floods & Landslides due to intensive rainfalls
- Sea Level Rise & Coastal erosion
- Temperature rise and heat stress
- Strong winds & cyclones
- Increase in Lightening
- Ocean temperature rise
- Ocean acidification



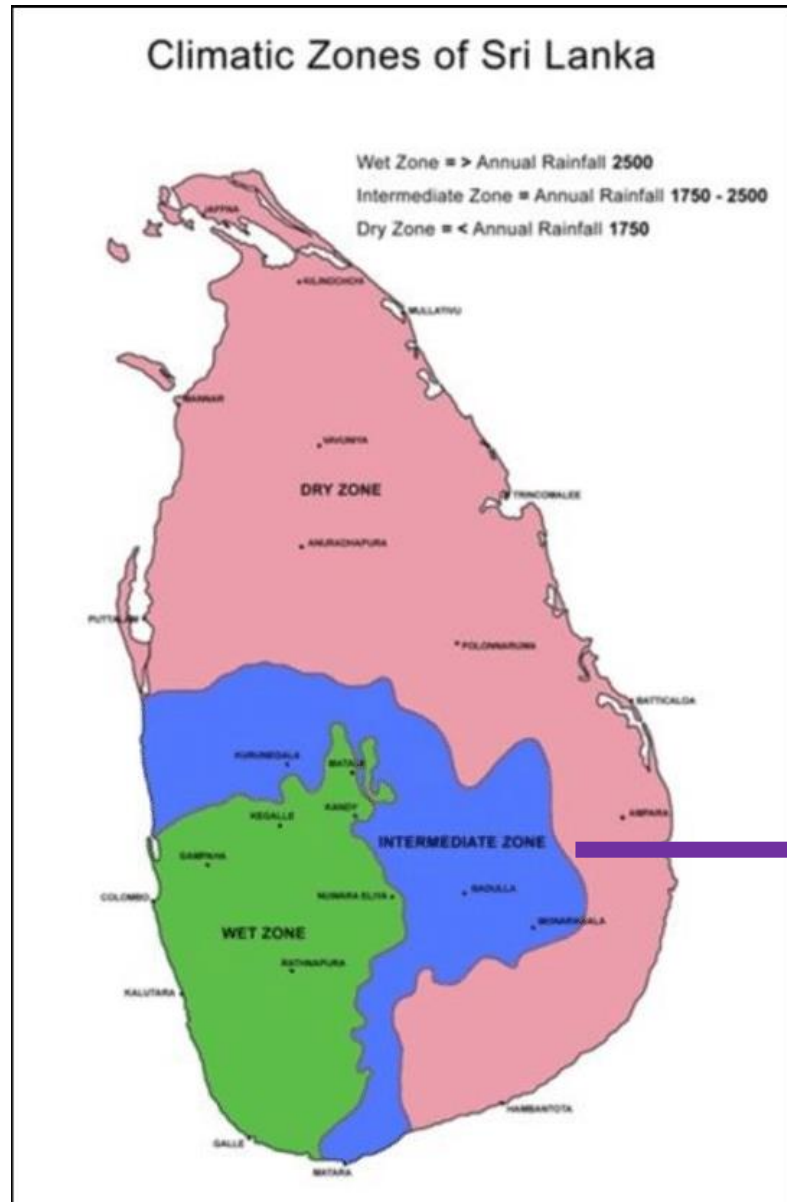
Sri Lanka: Drought and Heat Hazard



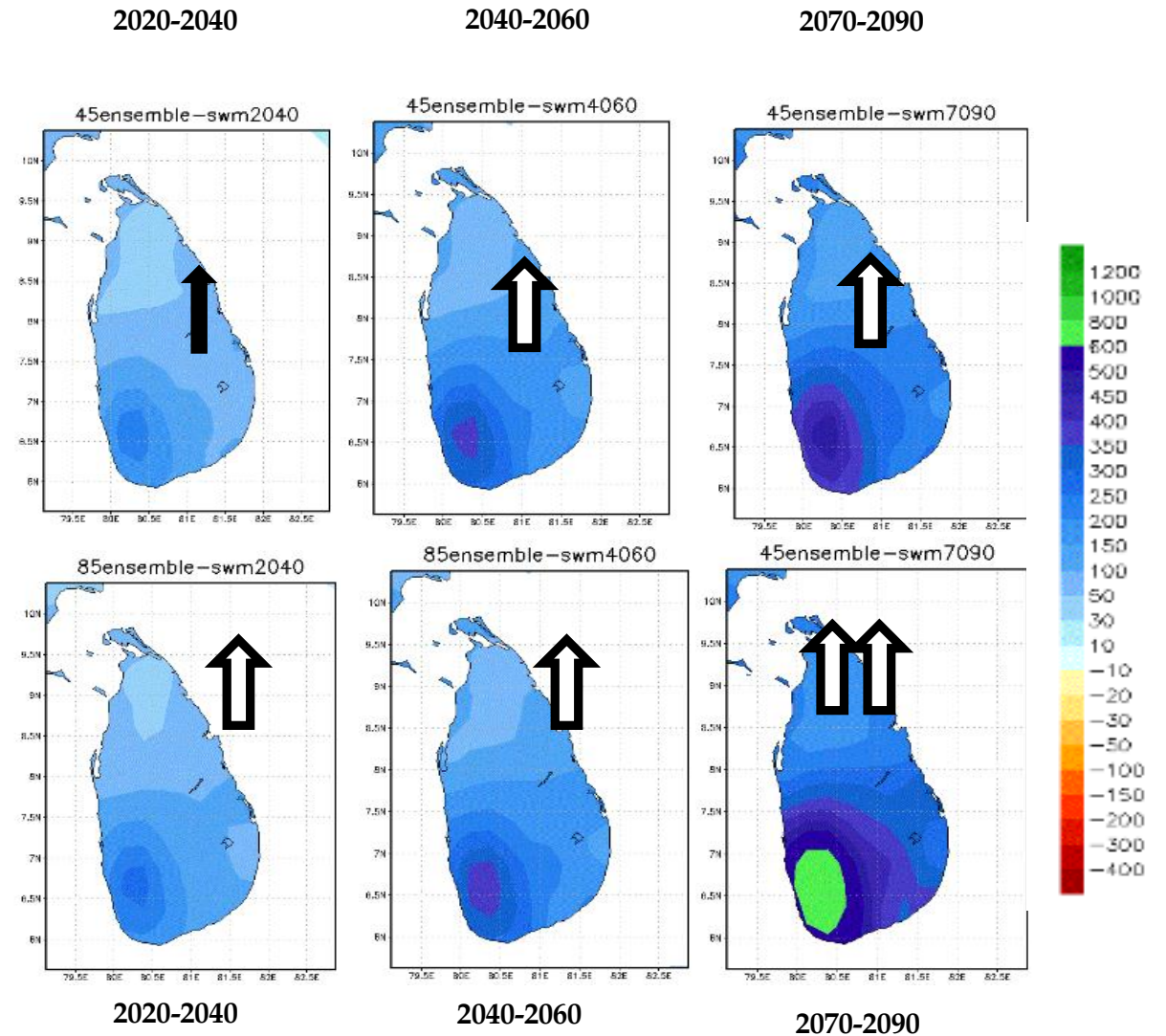
Sri Lanka: Sea Level Rise Hazard



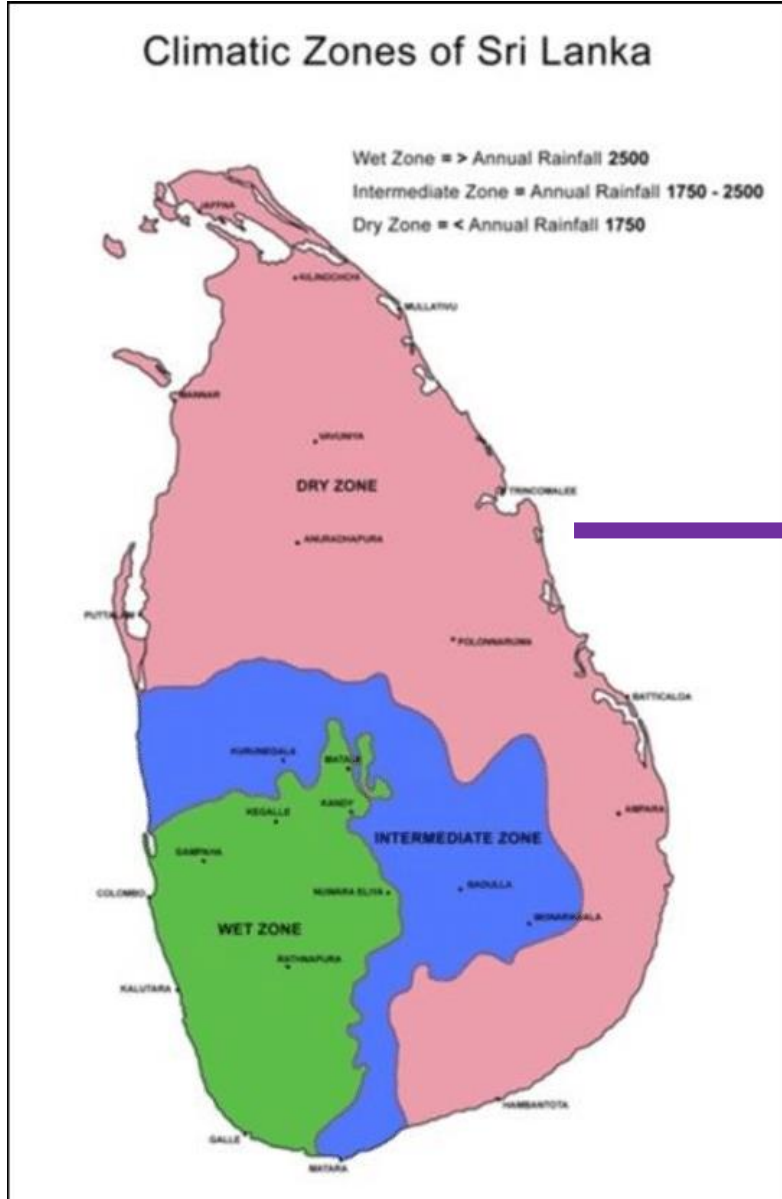
Climate Projections for South West Monsoon



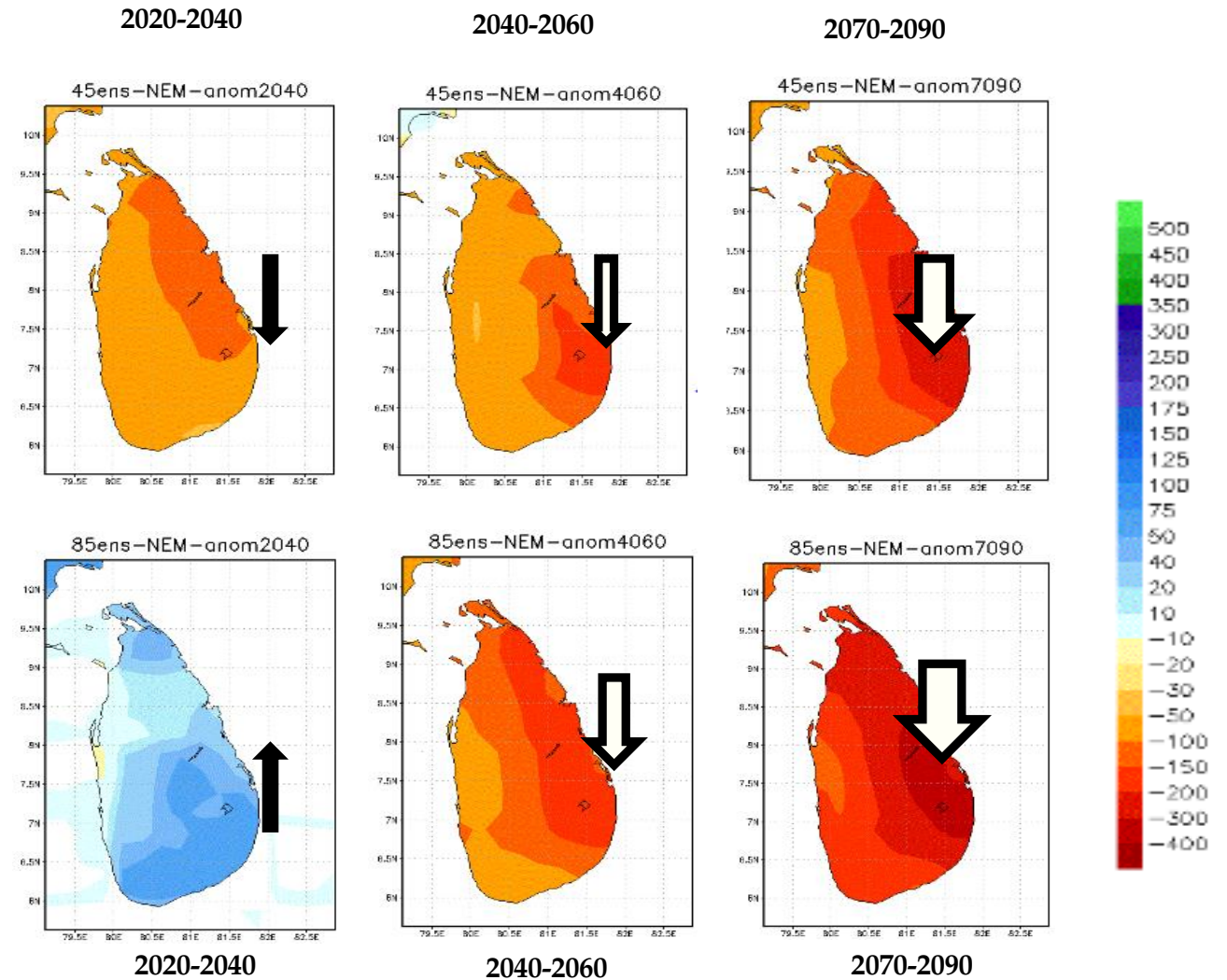
Multi-model Ensemble Projection for South-West Monsoon Rainfall



Climate Projections for North East Monsoon



Multi-model Ensemble Projection for North-East Monsoon Rainfall



Climate Change - Current Challenges

- Incidence of extreme weather events increased.
- High ranked in Global Climate Risk Index according to GermanWatch
- Loss and damages cost increased.
Eg: from floods (2016 and 2017) were estimated to be over USD 450 mil. and USD 360 mil. respectively and reconstruction needs over USD 1.6 billion for both years
- Droughts have seen loss of agricultural productivity and decline in GDP
- Impacts on economically important sectors and subsectors like
Agriculture, Plantations, Urban development, tourism, SMEs, fisheries

Biodiversity and Ecosystems



Transport, Energy and Industry



Food Security

Food Security



Coastal and Marine

**Most
Vulnerable
Sectors**



Health



water



Export Agriculture



Human settlement and Infrastructure



Tourism

Nationally Determined Contributions 2021-2030

Mitigation

Adaptation



Power



Forestry



Agriculture



Livestock



Fisheries



Transport



Waste



Biodiversity



**Coastal &
Marine**



**Water
including
irrigation**



Industry



Agriculture



Health



**Cities,
Human
Settlement**



**Tourism &
Recreation**

Progress made in Nationally Determined Contributions (NDCs)

















State of International (Global) Commitments

- First NDCs Submission in 2016
- Updated NDCs submission in 2021 with the 6 Mitigation sectors, 9 Adaptation sector and the Loss and Damage sector
- Established National Steering Committee for NDC implementation
- Established Planning & Monitoring Committees for each sectors
- Implementation & Monitoring Plans for all NDC sectors

Progress made in relevant SDGs

Examples of multi-sectoral action to ensure climate action

Table 7.1: Linkages between SDGs and adaptation NDCs

NDC Sector	Corresponding SDGs (*)	
All adaptation NDCs	13 	
Agriculture	13/11/12/ 13.3 & 13b 1  1.5 2  2.4/2.5 6  6.4/6.5	
Biodiversity	14  14.2/14.5 15  15.7/15.2/15.3/15.4/15.5 and 15.8	
Coastal	14  14.2/14b 11  11.9	
Fisheries	14  14.2/14.4/14.5	
Health	3  3.6/3.9 and 3d 2  2.2	
Livestock	2  2.4 and 2a	
Water & Irrigation	6  6.1/6.3/6.4/6.5/6.6 & 6a/6b	
Urban	11  11.3/11.5/11.6/11.9/11.10	
Tourism	8  8.9 9  9.4	

Progress made in Policy to Support Climate Action

State of National / Provincial Policy / Plan

- National Environment Policy
- National Environment Action Plan
- National Climate Change policy of Sri Lanka
- National Climate Change Adaptation Strategy of Sri Lanka
- National Adaptation Plan for Climate Change Impacts of Sri Lanka
- Low Carbon Development Strategy
- Guidelines for Human Settlement and Infrastructure
- Provincial Adaptation Plans-Integrated into development Plan



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Progress made in mainstreaming Climate Action in Development

Good practices of climate change adaptation & mitigation

- Sector vulnerability profiles for Agriculture and fisheries, Health, Water, Biodiversity and ecosystem services, Urban development human settlement and economic infrastructure
- Technology Need Assessment for Adaptation and Mitigation sectors
- National Climate Change Data Sharing Network
- Integrated MRV System
- Initiated to establishment of sectoral climate cells and provincial climate cells



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Thank you



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