



Workshop for countries of the Asia –Pacific region: National Adaptation Planning and Implementation in Asia

Common Framework between Central and local and 4X4 assessment

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Background

- Climate change is recognized as a challenge and threat.
- Future projections of climate change indicate adverse impacts and wide ranging implications
- The concerns of India are even higher
- Vulnerability and adaptation assessments at national and state

National Assessments



India's

Initial National Communication to the United Nations Framework Convention on Climate Change



Government of India

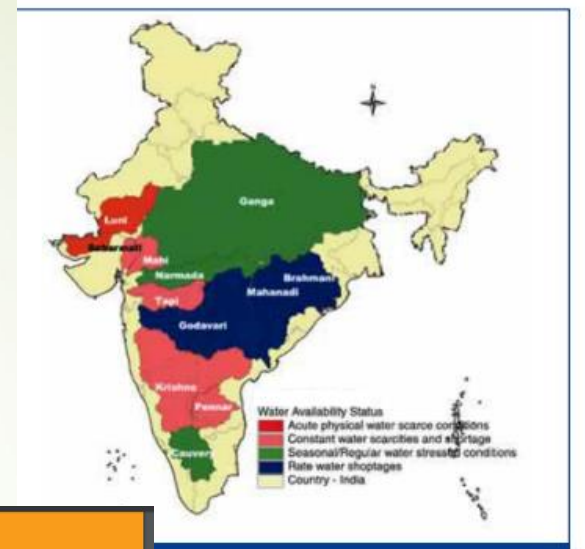
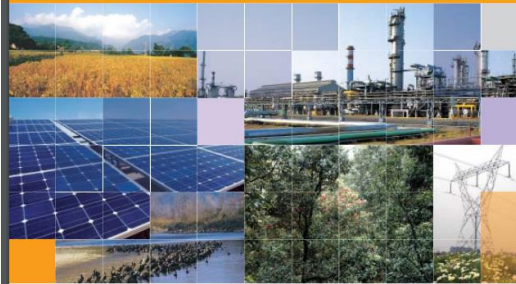


Figure 3.21: Broad variation in vulnerability of different regions to projected climate change.

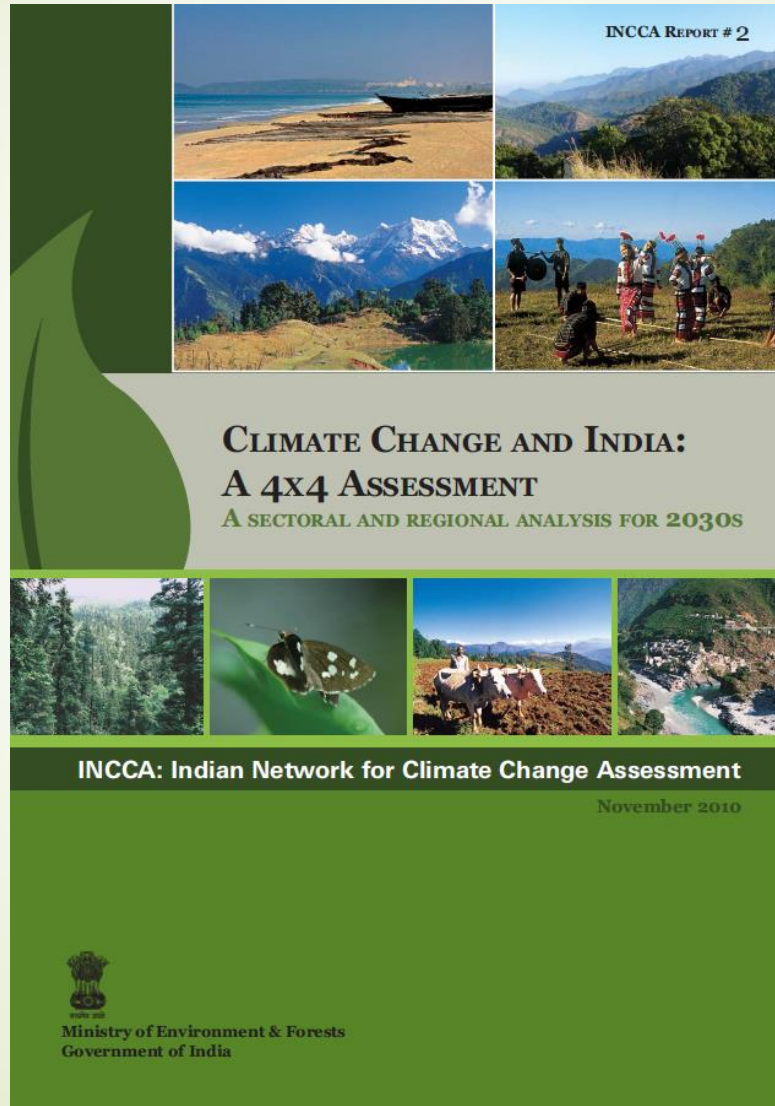
India

Second National Communication to the United Nations Framework Convention on Climate Change



Ministry of Environment & Forests
Government of India
2012

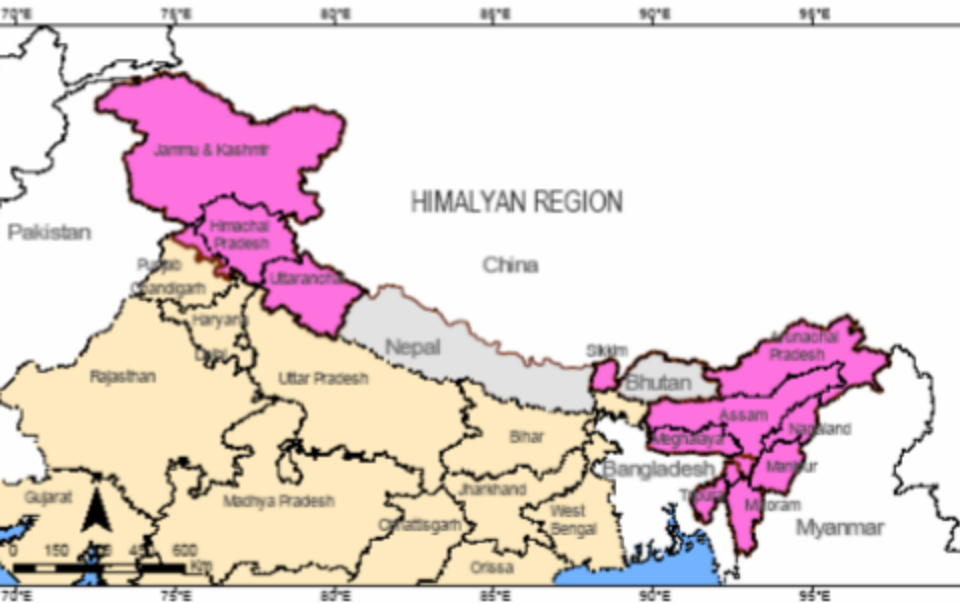
Regional Assessment



The 4X4 Assessment

- Focus on 4 climate sensitive regions in India –
 - Himalayan Region
 - North Eastern Region
 - Western Ghats
 - Coastal region
- Assess what would be the likely impacts in 2030s on
 - -Agriculture
 - -Ecosystems and biodiversity
 - -Water resources and
 - -Human health affected by climate variability
- For 2030s

The Regions

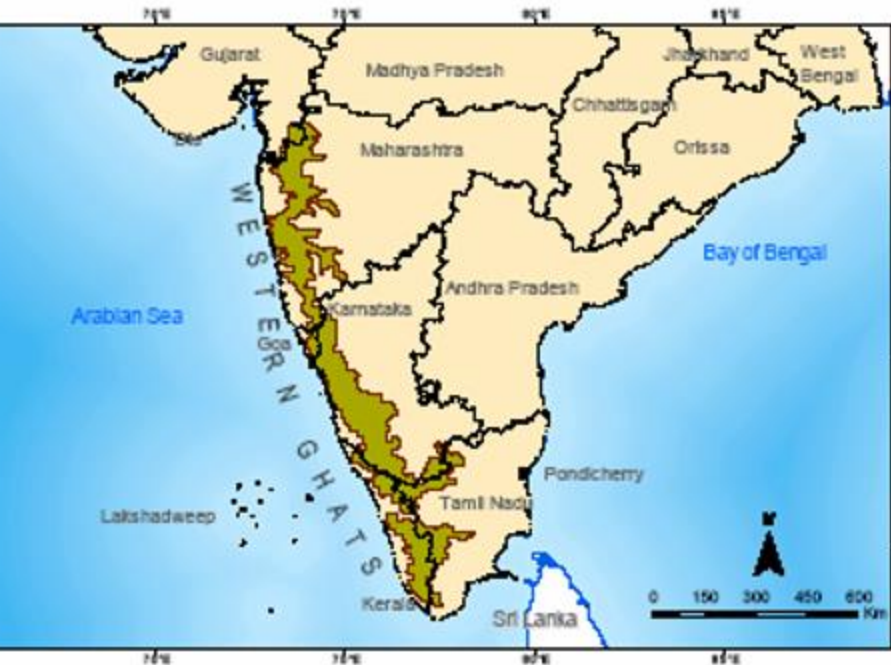


The Himalayan Region



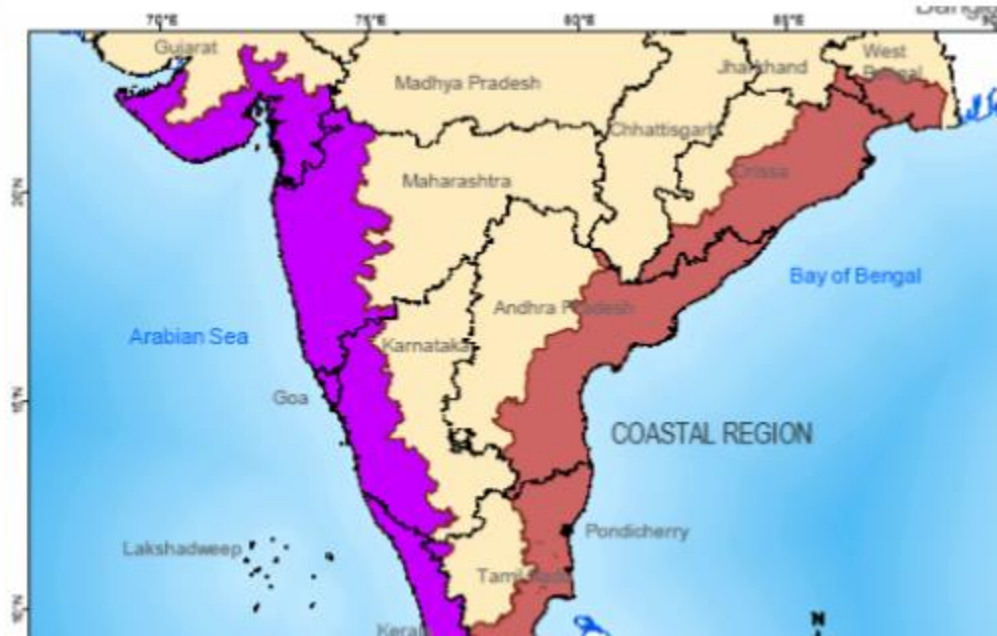
The North Eastern region

The Regions



Western Ghats

Coastal Region





Agriculture



Water

The Sectors

Health

Forest & Biodiversity



Salient Findings

Projected Climate Change Parameters in 2030s with respect to 1970s

Features	Himalayan region	Western Ghats	Coastal Region	North-Eastern Region
Temperature	↑	↑	↑	↑
Precipitation	↑	↑	↑	↑
Extreme Temperature	↑	↑	↑	↑
Extreme Intensity Precipitation No. of Rainy days	↑	↑	↑	↑
	↑	↓	↑	↓

Key

↑ increase ↗ Slight increase → No change ↓ decrease ⇕ No particular trend


Salient Findings

Trends in Impacts for 2030s in A1B

Features	Himalayan region	Western Ghats	Coastal region	North-Eastern region
Agricultural productivity	↕	↕	↕	↕
Water resources	↑	↗	↔	↗
Net Primary Productivity	↑	↑	↑	↑
Transmission windows for Malaria	→	→	↓	↑

Key

↑ increase ↗ Slight increase → No change ↓ decrease ↕ No particular trend



Coordination and Implementation – NAP Process

- ▶ Ministry of Environment, Forests and Climate Change (MOEFCC) with the help of institutional framework undertakes national assessments, development and implementation of national plans
- ▶ State Nodal Agency under guidance of MoEFCC and line ministries – assess vulnerabilities and develop adaptation plans
- ▶ No regulatory mechanism available
- ▶ Awareness created at national and local level



Thank You