



Management of Climate Change Related Disasters



R K Pachauri, Ph.D
Director-General TERI
Chairman IPCC

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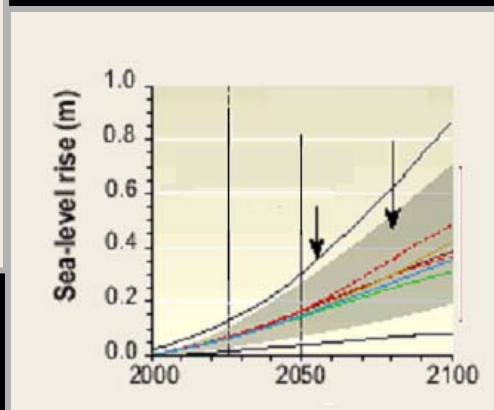
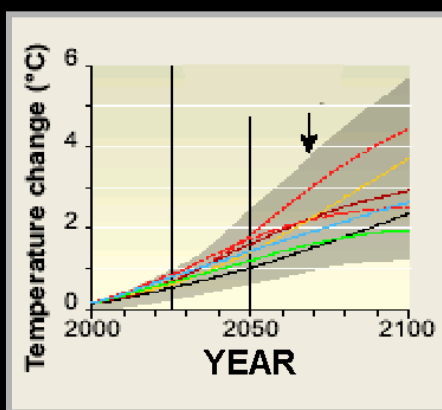
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NATURAL DISASTERS

- Floods
- Earthquakes
- Cyclones
- Tsunamis
- Landslides
- Avalanches

Human civilization now faces enhanced risks consequent on increased population density in several locations and the growing threat of climate change.

Projections of Climate Change and Sea Level Rise

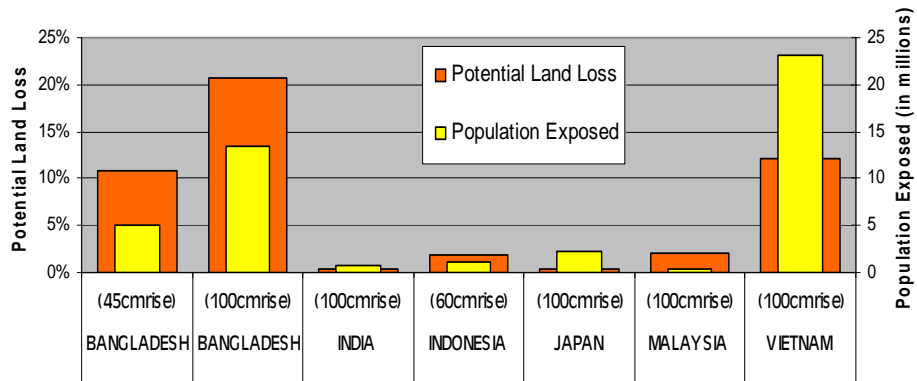


Source: IPCC, Third Assessment Report

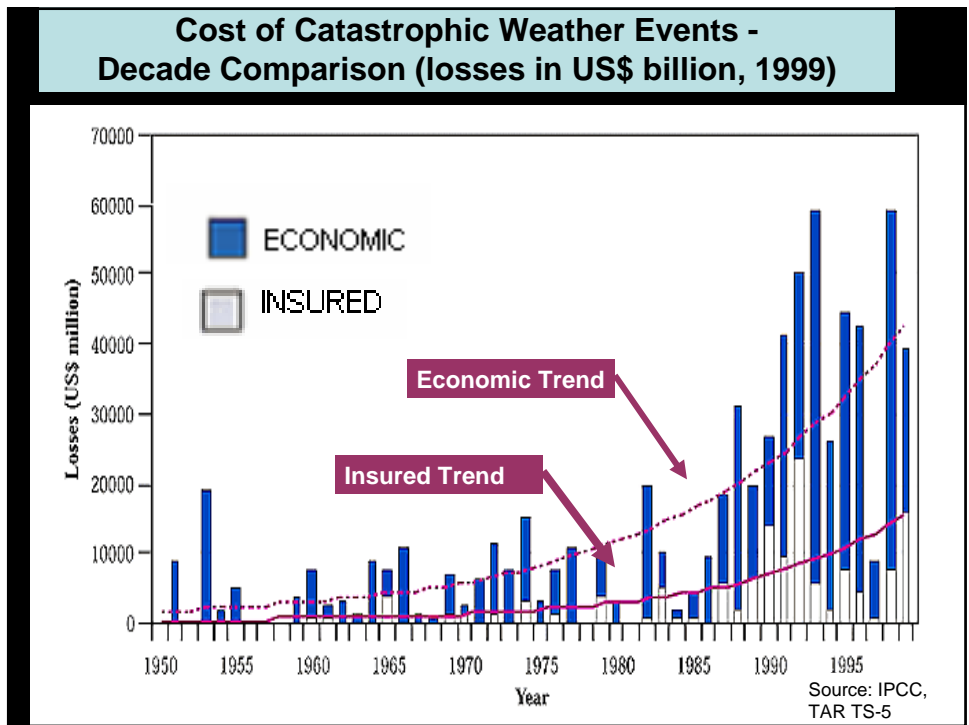
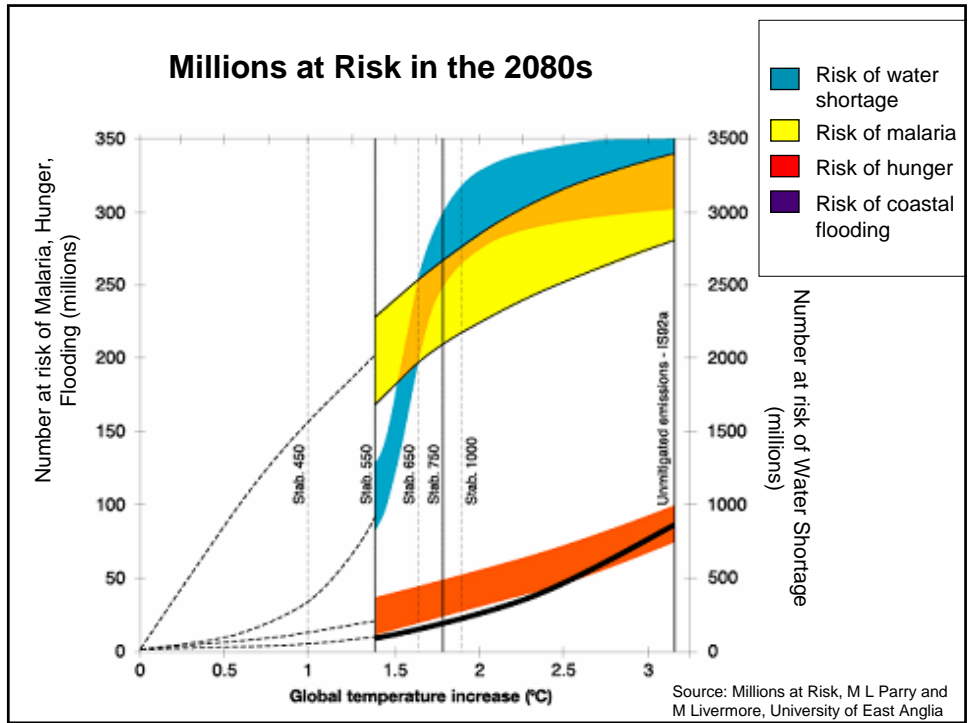
Human-induced climate change has the potential to trigger large-scale changes in Earth systems that could have severe consequences at regional or global scales. The probabilities of triggering such events are poorly understood but should not be ignored, given the severity of their consequences.

Source: IPCC, Climate Change 2001: Synthesis Report

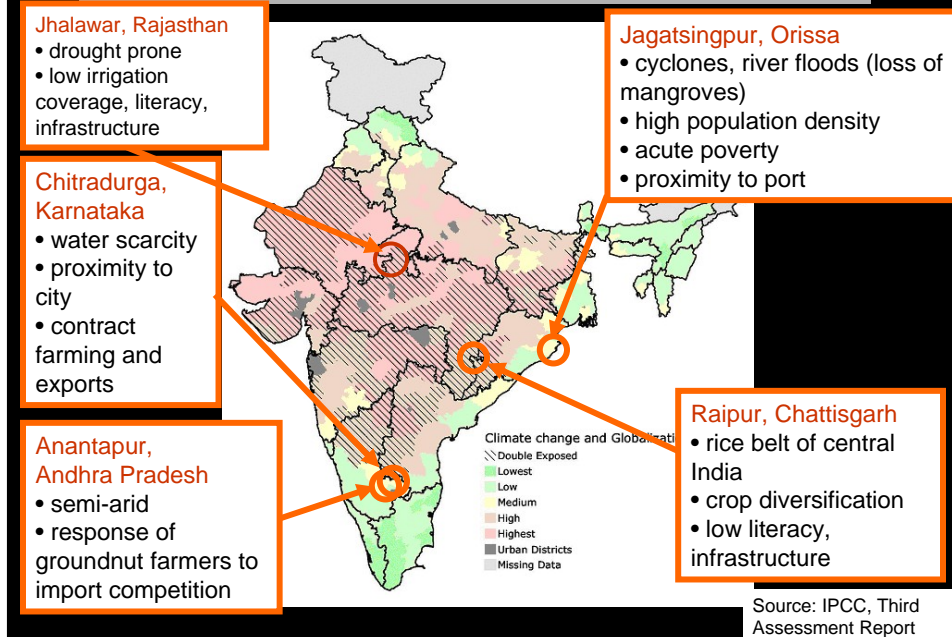
Potential land loss and population exposed in Asian countries for selected magnitudes of sea-level rise



Source: IPCC, TAR TS-8

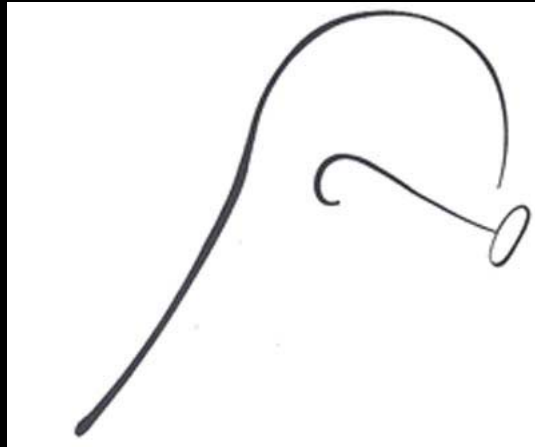


Varying Vulnerabilities in India Based on Double Exposure to Climate Change and Globalization



How do we manage these Escalating Disasters in South Asia?

- ❖ Collaborative Research on Climate Change in South Asia
- ❖ Active Role in Global Mitigation of Greenhouse Gases Emissions
- ❖ Strategy for –
 - Anticipatory Adaptation Measures
 - Reactive Adaptation Measures
- ❖ Learning from recent weather related catastrophes –
 - 2003 Heat wave in AP
 - 2006 Floods in Surat, etc.
- ❖ Learning from Regional Programmes Elsewhere –
 - Arctic Climate Impact Assessment
 - Small Island Developing States



A technological society has two choices. First it can wait until catastrophic failures expose systemic deficiencies, distortion and self-deceptions... Secondly, a culture can provide social checks and balances to correct for systemic distortion prior to catastrophic failures.