

The IPCC Special Report on Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation

Impacts in South Asia

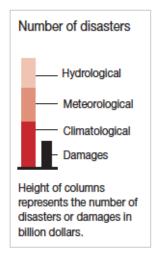
Apurva Sanghi, World Bank

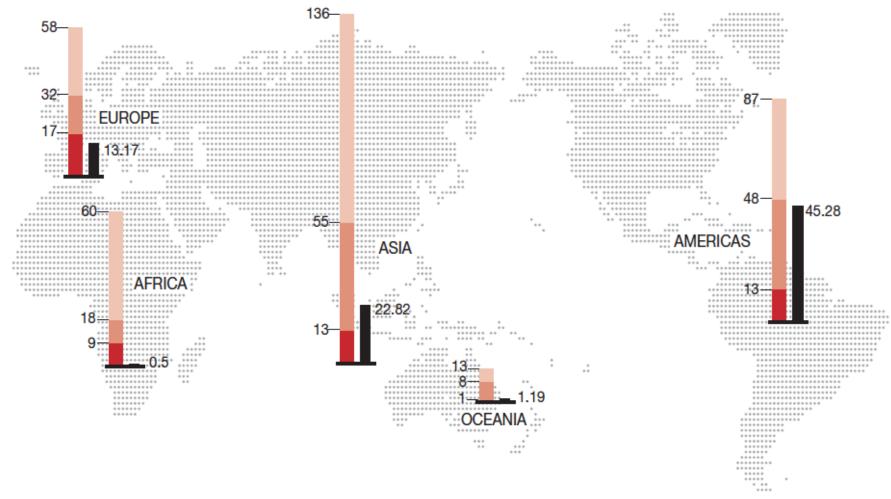


1. Economic losses increased with large differences among regions and between years (high confidence)



2000-2008: Asia had the most weatherand climate- related hazards







2. Most vulnerable have suffered





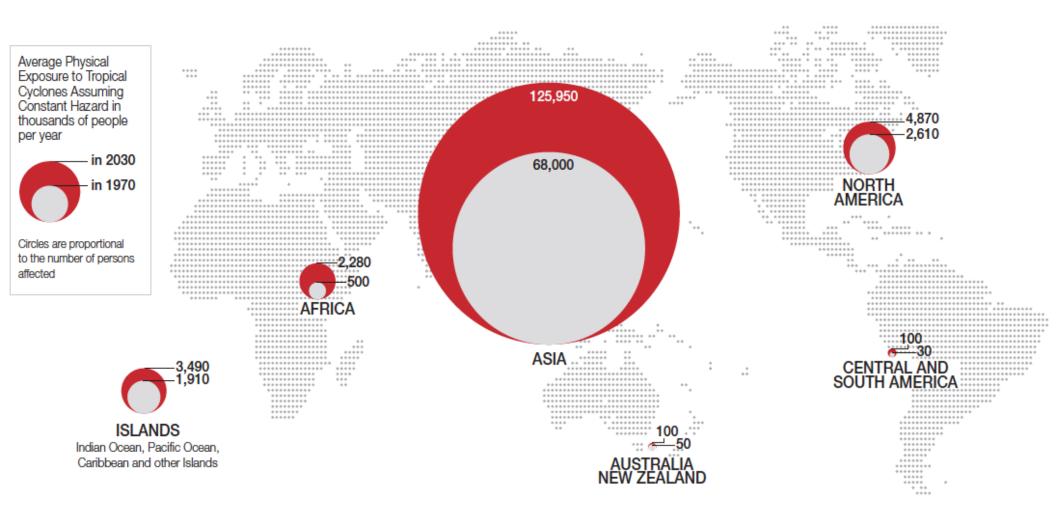
3. Increasing exposure of people and assets: major cause of increased losses (high confidence)

Long-term trends in losses adjusted for wealth and population increases, not been attributed to CC (high confidence)



1. Disaster risk will continue to increase regardless of climate change

Increasing exposure to tropical cyclones in Asia

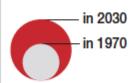


90% of population exposed to tropical cyclones is in Asia

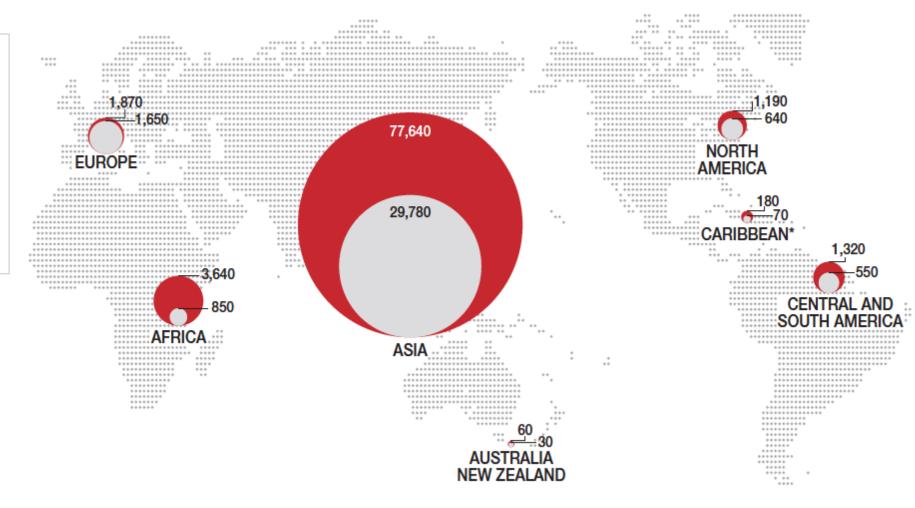


Increasing exposure to flooding in Asia

Average Physical Exposure to Floods Assuming Constant Hazard in thousands of people per year

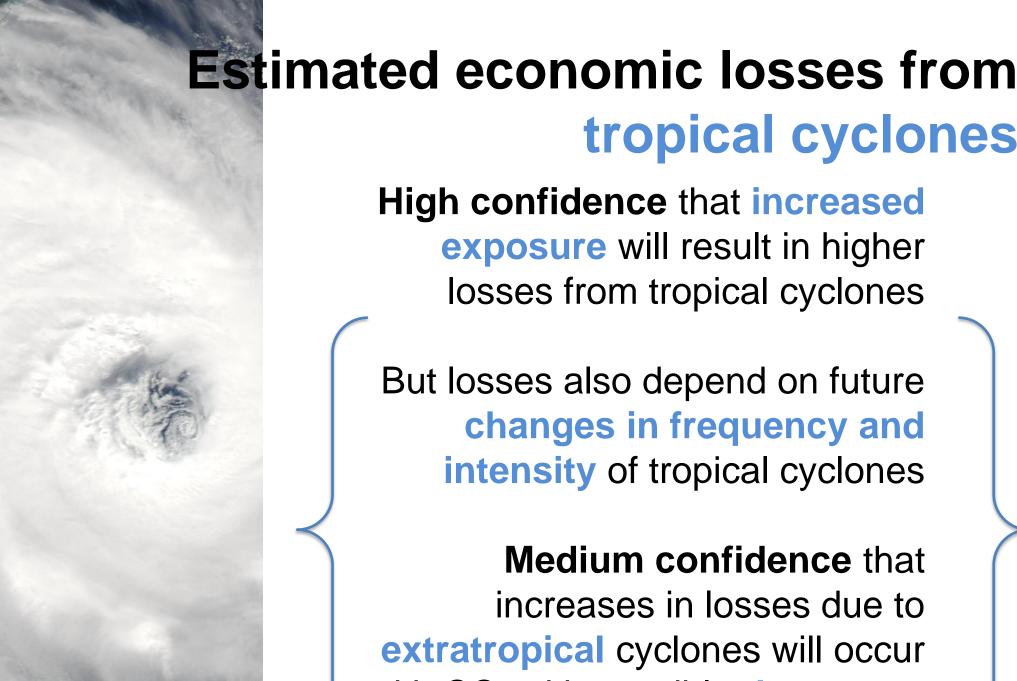


Circles are proportional to the number of persons affected





2. Frequency and intensity of extreme events are not the only factors that affect future risks



tropical cyclones

High confidence that increased exposure will result in higher losses from tropical cyclones

But losses also depend on future changes in frequency and intensity of tropical cyclones

Medium confidence that increases in losses due to extratropical cyclones will occur with CC, with possible decreases or no changes in some areas

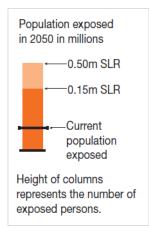


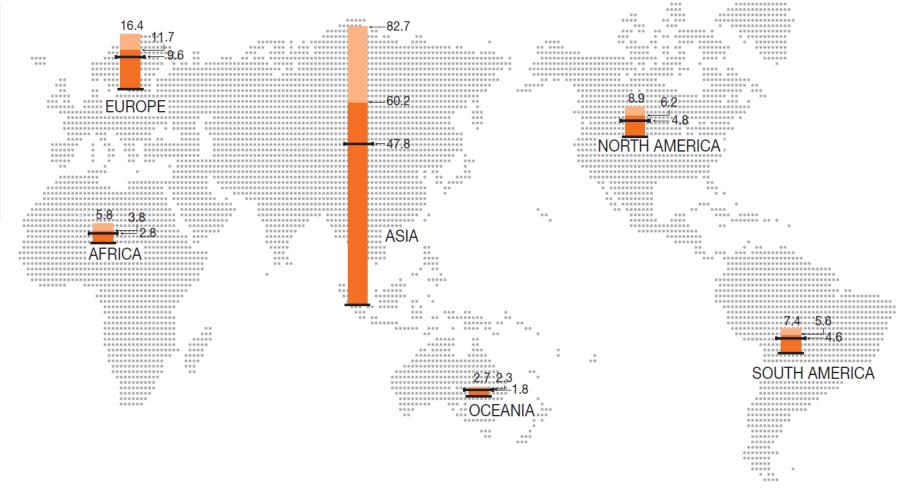
Estimated economic losses from floods

High confidence climate change has potential to substantially affect flood losses in some places



Increasing exposure to sea level rise in Asia









3. Impacts most severe on climate dependent sectors and infrastructure

Changes in climate have potential to seriously affect water management systems (high confidence)

Different vulnerability and exposure = different impacts

4,200 fatalities

Cyclone Sidr Bangladesh

138,000 fatalities

> Cyclone Nargis Myanmar

