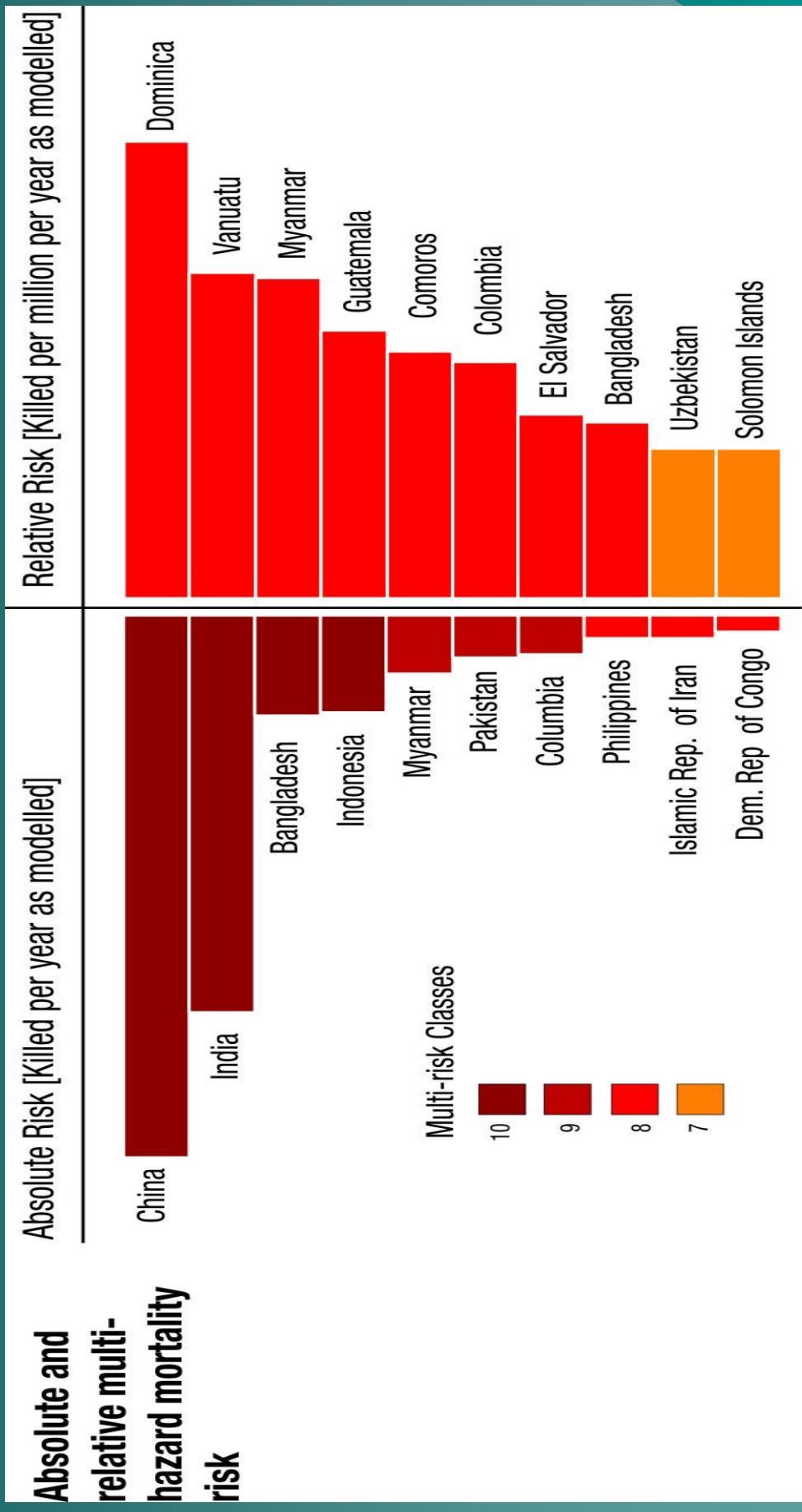


Disaster risk reduction as an opportunity to advance climate change adaptation

**Reducing water related risks: a
global perspective**

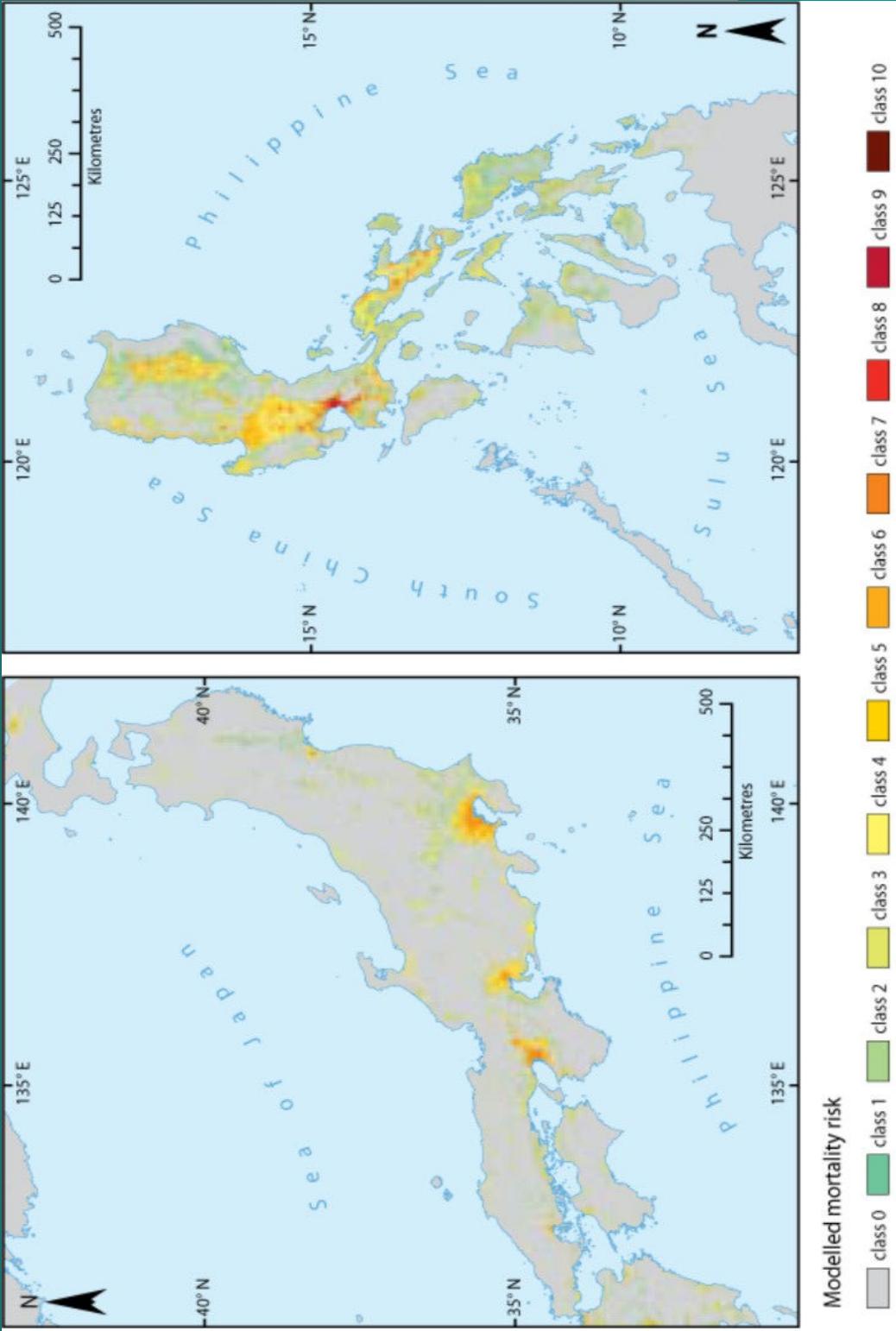
Andrew Maskrey
UNISDR Secretariat, Geneva

Disaster risk is intensively concentrated



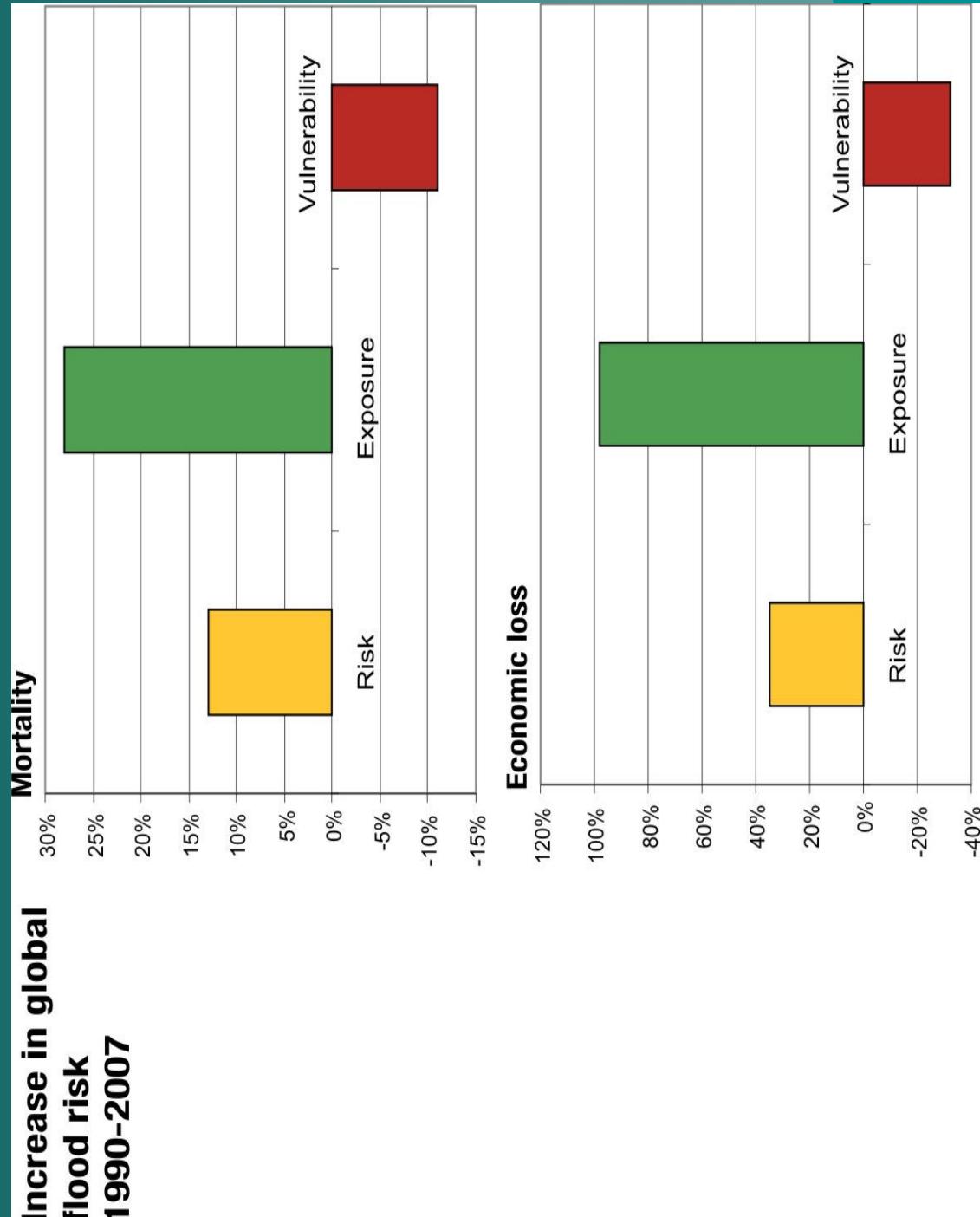
it's unevenly distributed.....

Mortality risk
for tropical
cyclones in
two countries
with similar
exposure:
Japan and the
Philippines

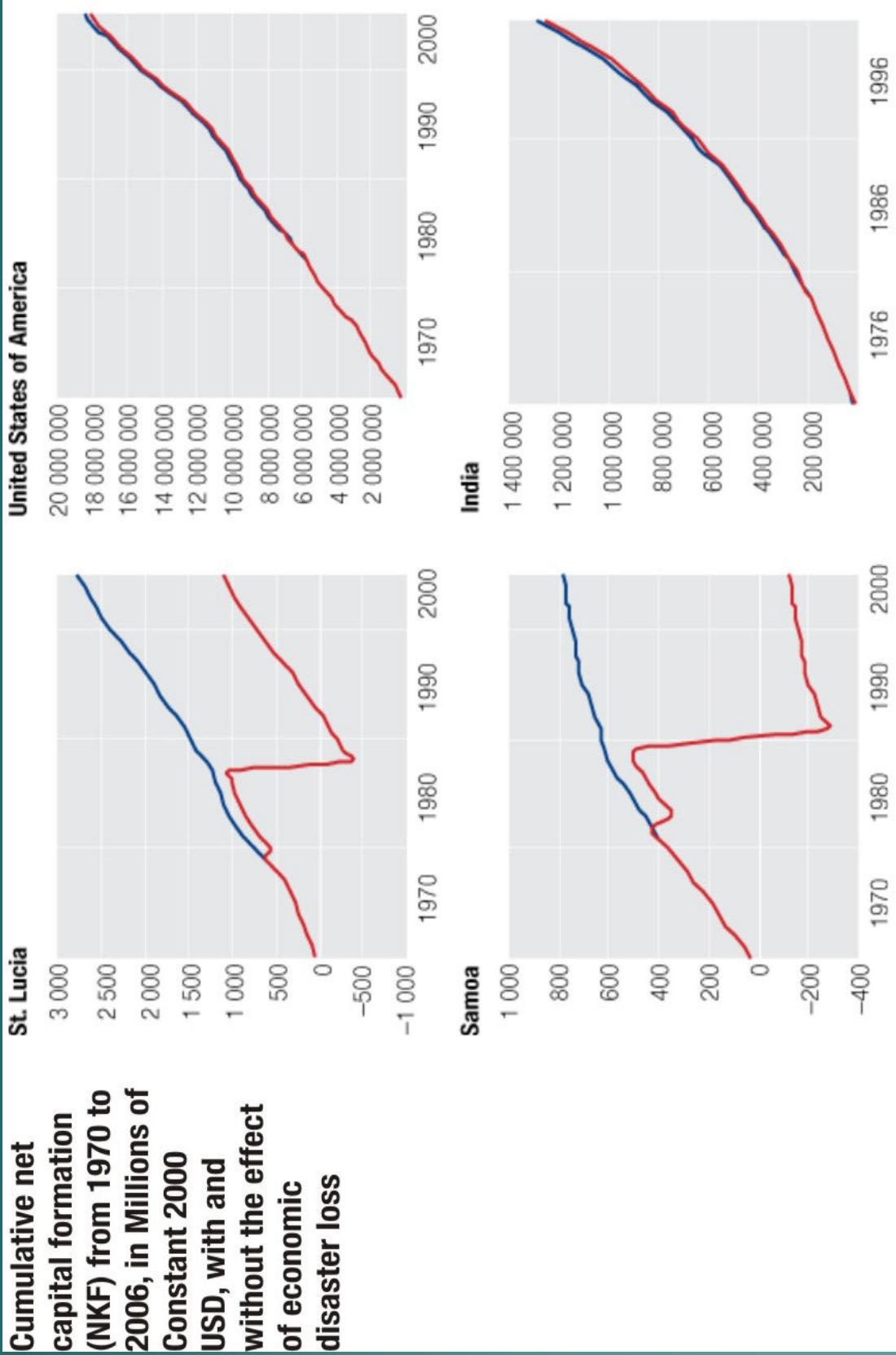


.....is increasing globally

Increase in global flood risk 1990-2007

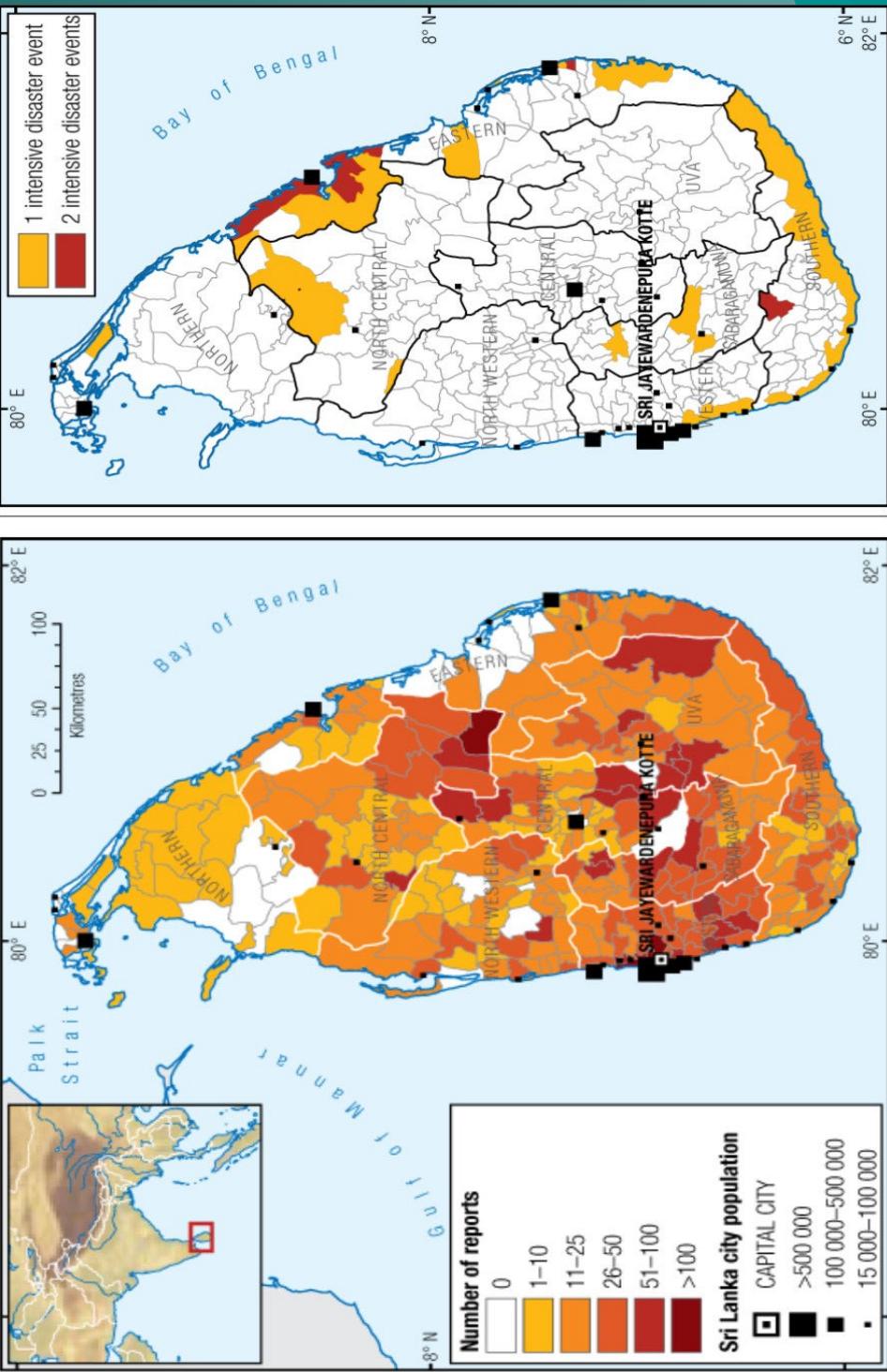


and ... hits small countries hardest



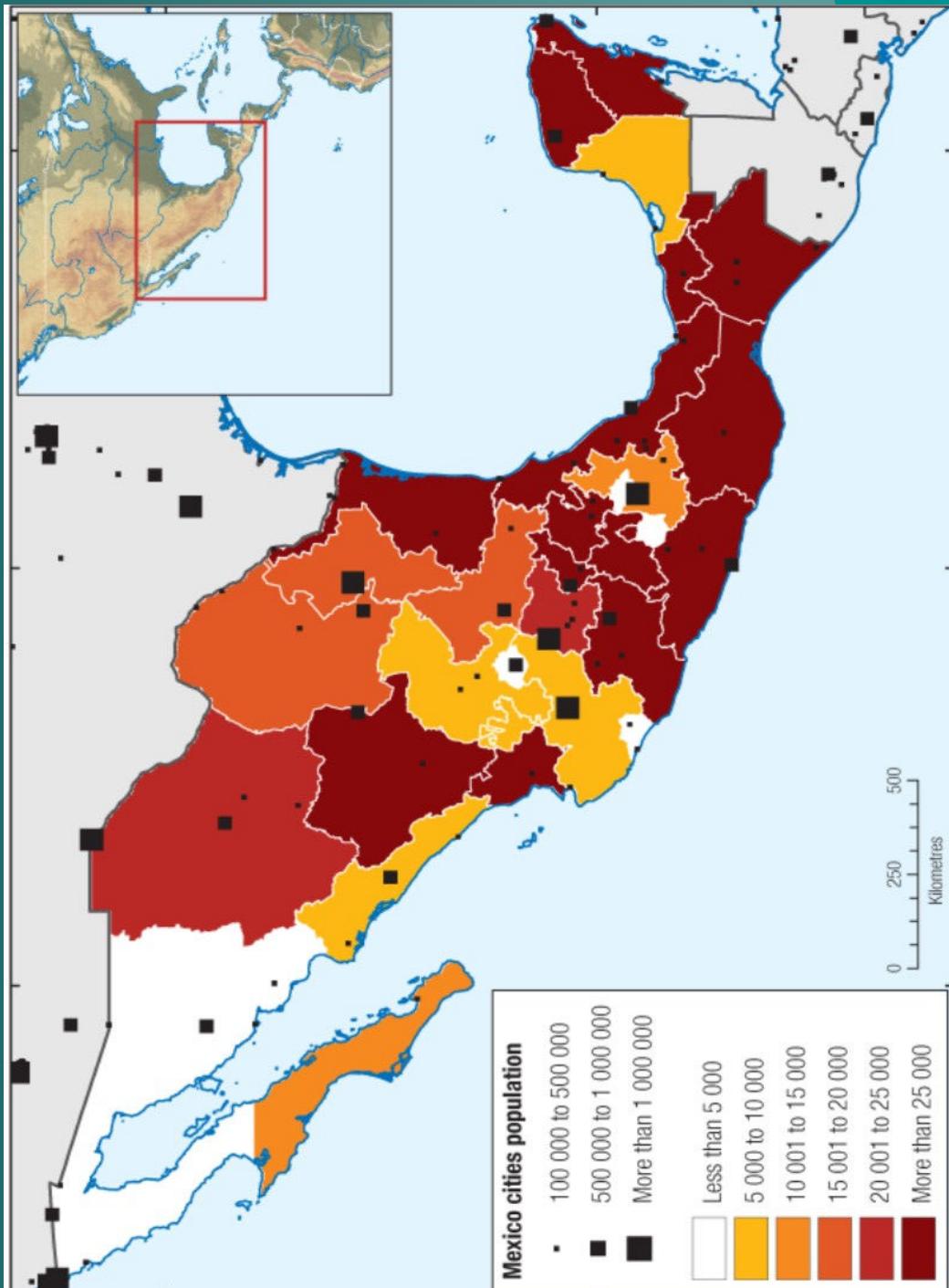
Risk is also extensively spread

Number of local loss reports with more (right) and less (left) than 50 deaths or 500 destroyed houses
1970 – 2007 in Sri Lanka



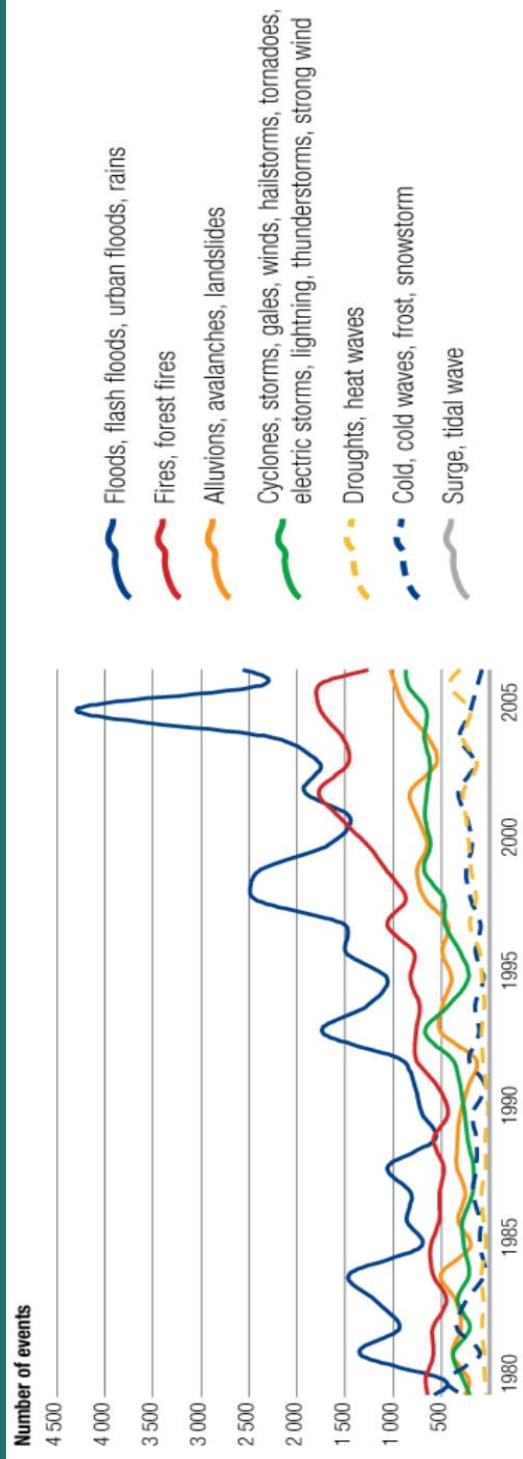
Number of houses damaged in Mexico since 1980

..... feeds back into poverty

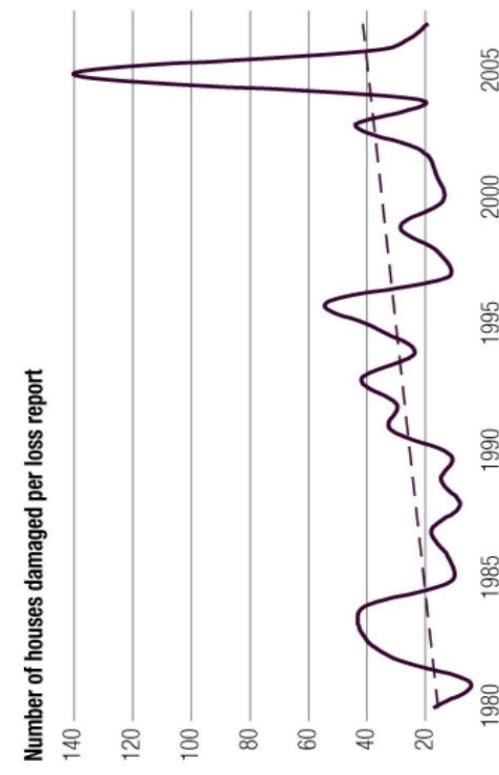


.... and is increasing rapidly

Number of flood and rain extensive risk loss reports (1980–2006)

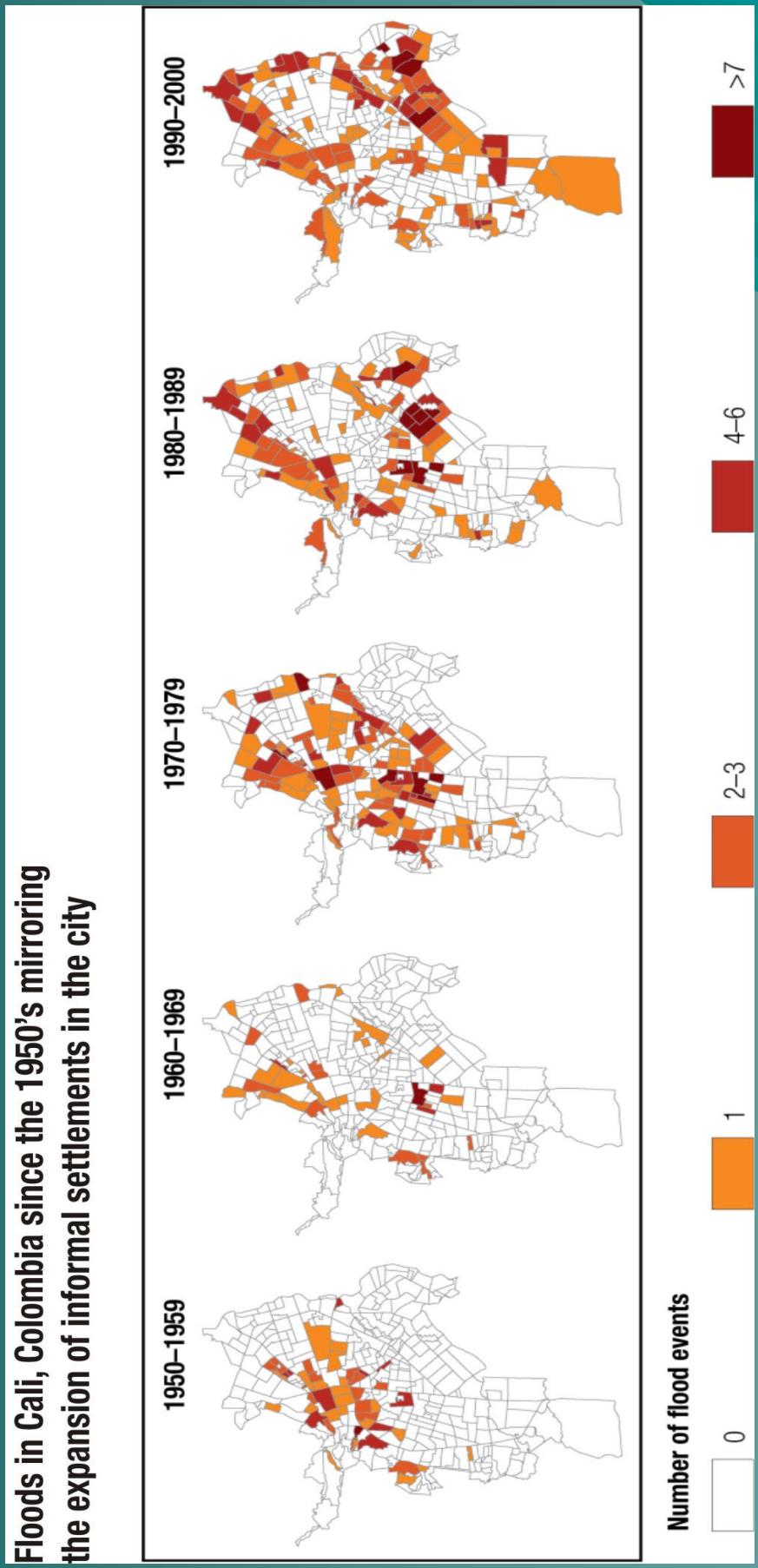


Extensive weather-related housing damage (1980–2006)



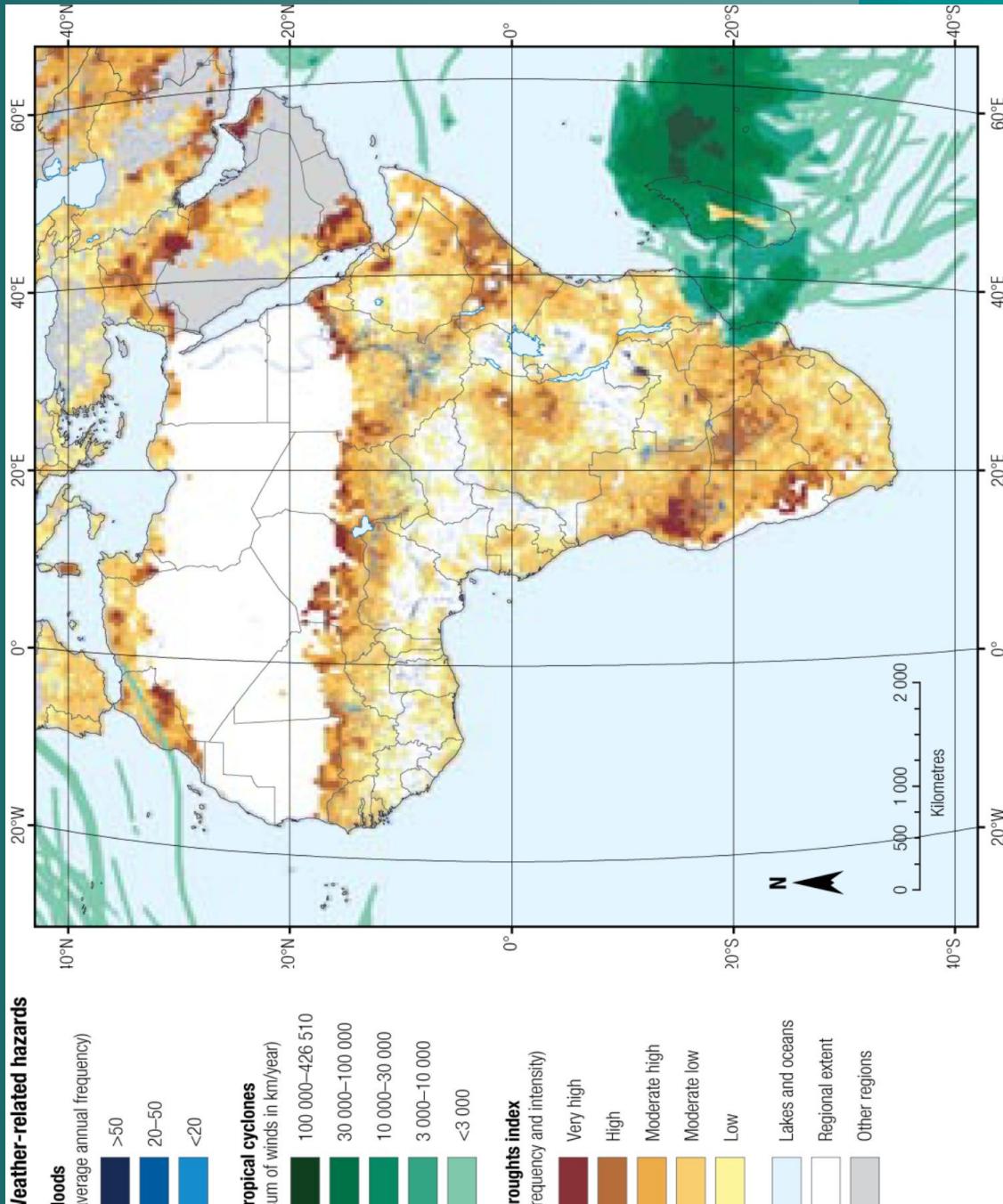
driven by deficient urban and local governance

Floods in Cali, Colombia since the 1950's mirroring the expansion of informal settlements in the city



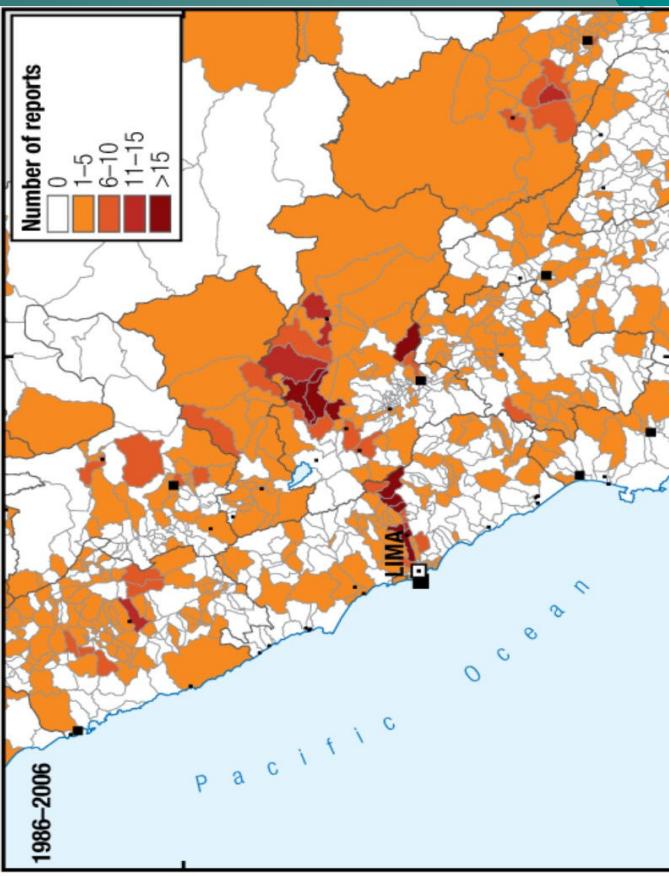
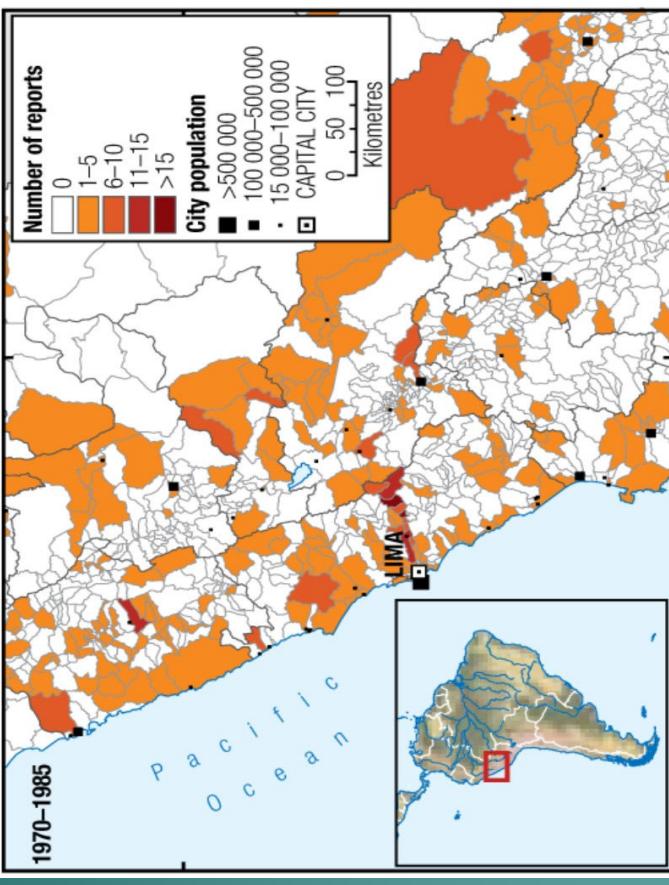
..... vulnerable rural livelihoods

Weather related hazards in Africa

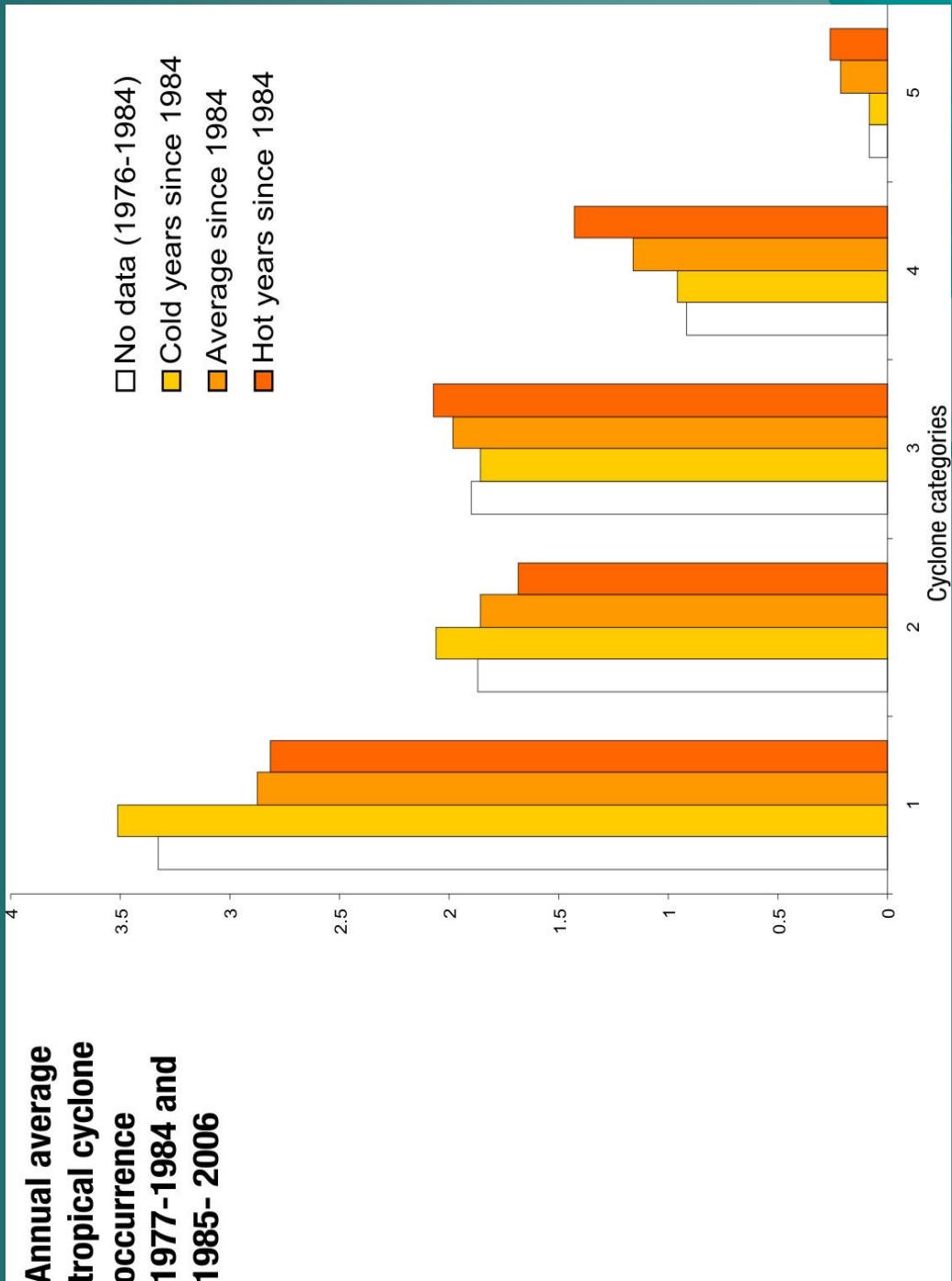


and declining ecosystem services

Landslide risk in Peru before and since the mid 1980s



.... magnified by climate change



Key messages

- ◆ Address the underlying risk factors to reduce disaster risk and poverty and adapt to climate change
- ◆ Evidence: seek more robust measurement of contribution of the different risk factors
- ◆ Scale up and institutionalise national level applications (national disaster loss data; probabilistic risk quantification; regression analysis to identify drivers)

Thank you