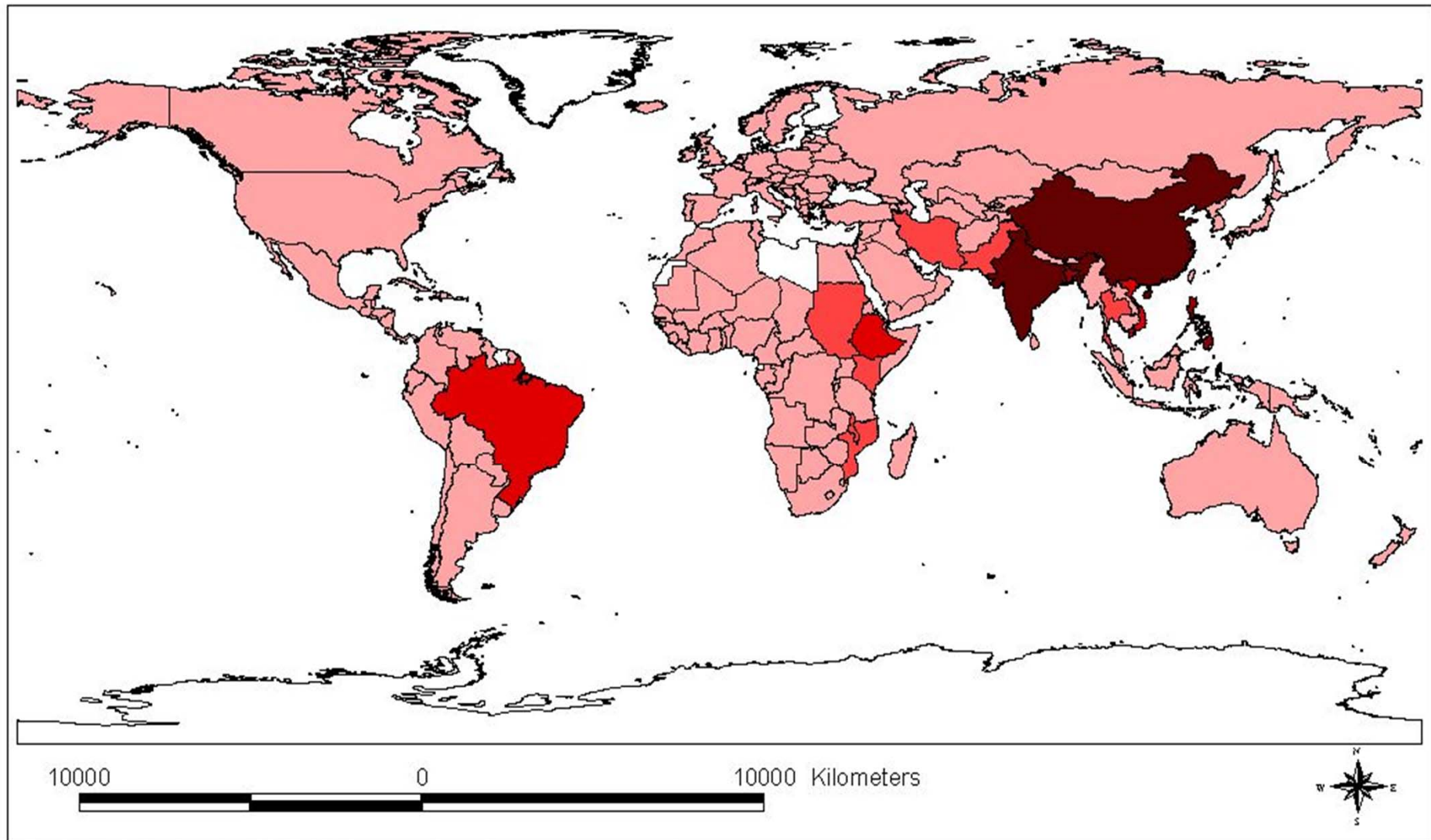


Distribution of people affected by natural disasters (1975-2001)



EM-DAT: The OFDA/CRED International
Disaster Database (<http://www.cred.be>;
email: cred@epid.ucl.ac.be)

LEGEND

0 aff.	48,000,001 - 100,000,000 aff.
1 - 18,000,000 aff.	100,000,001 - 350,000,000 aff.
18,000,001 - 48,000,000 aff.	> 350,000,000 aff.

Countries affected by destructive flooding since 1990



Nature, 2002.

Frequency of large floods has increased substantially during the 20th century.

4 x CO₂: in some areas 100-year flood corresponding to control period can occur every 2-5 years.

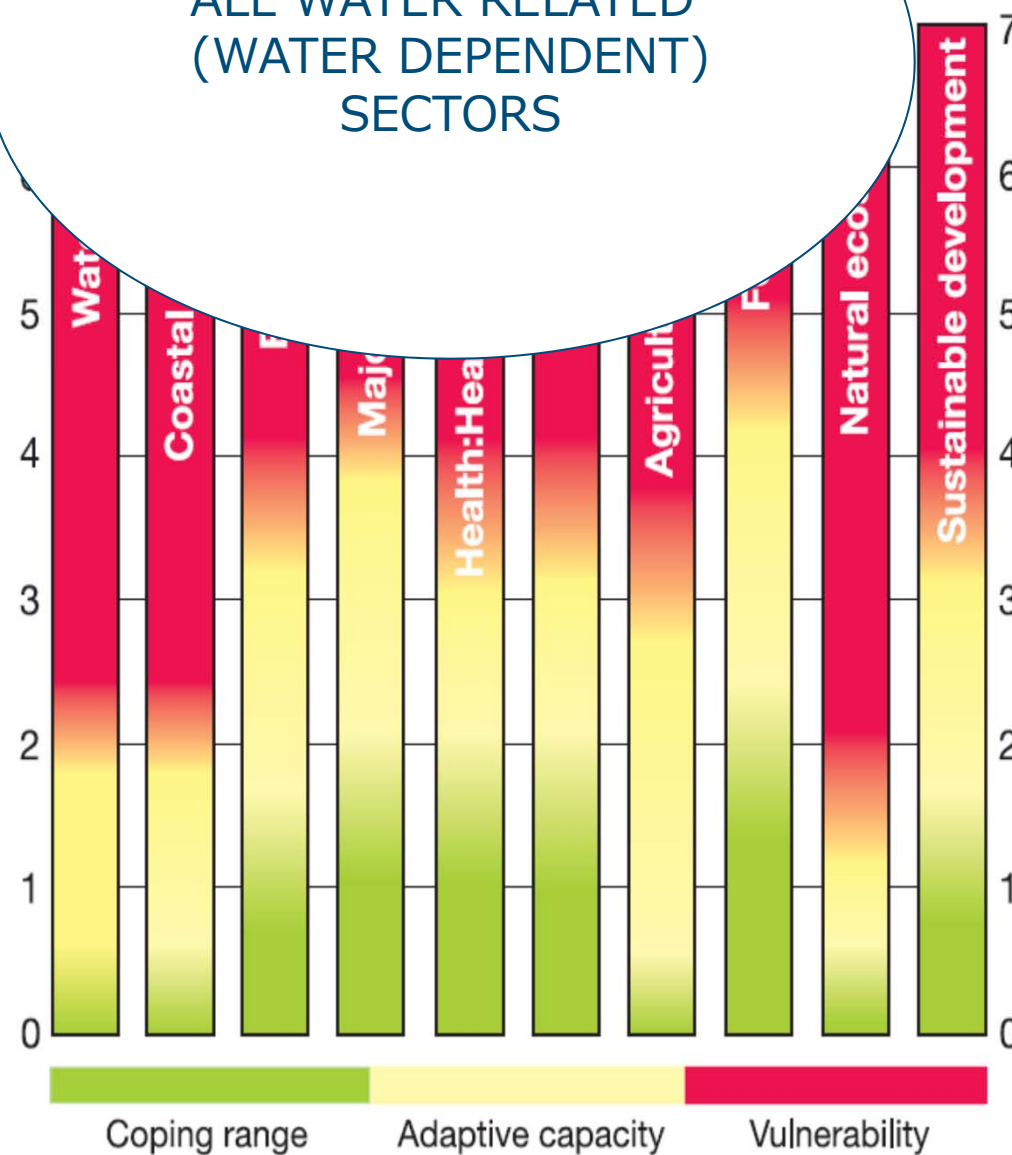
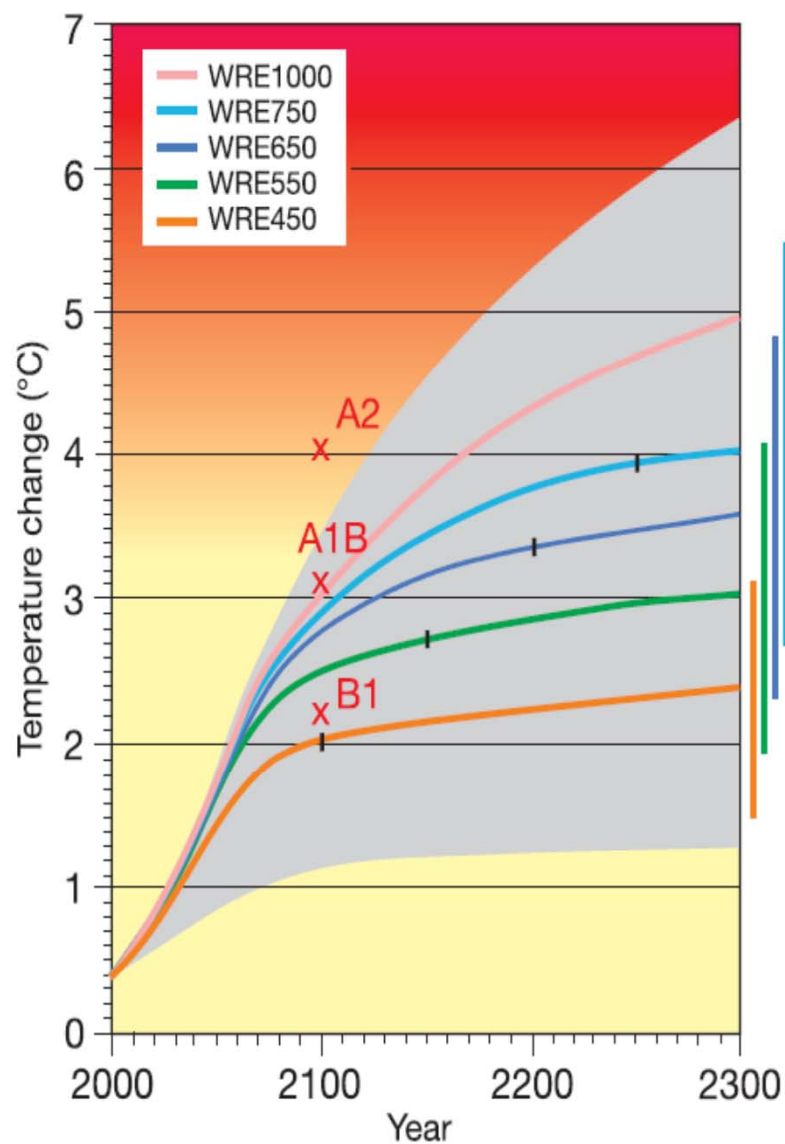


IPCC 4AR:

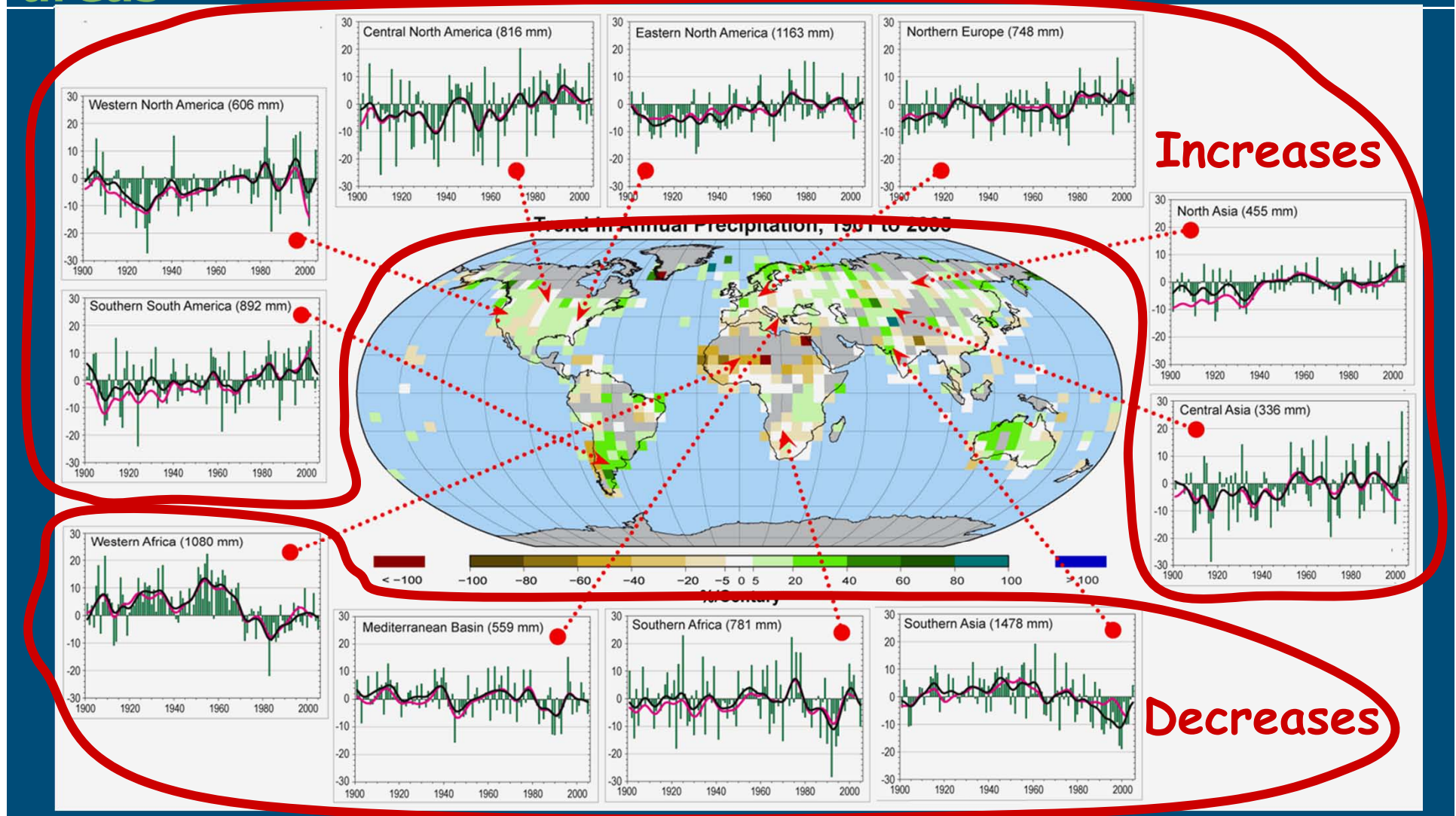
- Most vulnerable regions are : Africa, **Asian megadeltas**, small islands, the Arctic.
- Most vulnerable sectors are: **water** (espec in the dry tropics), **agriculture** (espec in low latitudes), **human health** in countries with low adaptive capacity, some **ecosystems**: viz. coral, sea-ice biomes, coastal (eg mangrove and saltmarshes), tundra/boreal/mountain

IPCC 2007

ALL WATER RELATED
(WATER DEPENDENT)
SECTORS



Land precipitation is changing significantly over broad areas



Smoothed annual anomalies for precipitation (%) over land from 1900 to 2005; other regions are dominated by variability.

Monsoon rainfall is the main water resource of the region;

High frequency of climate related disasters, such as flood, drought and heat wave, cause great damages of the region;

