



United Nations
International Strategy for Disaster Reduction

Climate Change Risk Reduction

Main messages for Risk Managers and Researchers

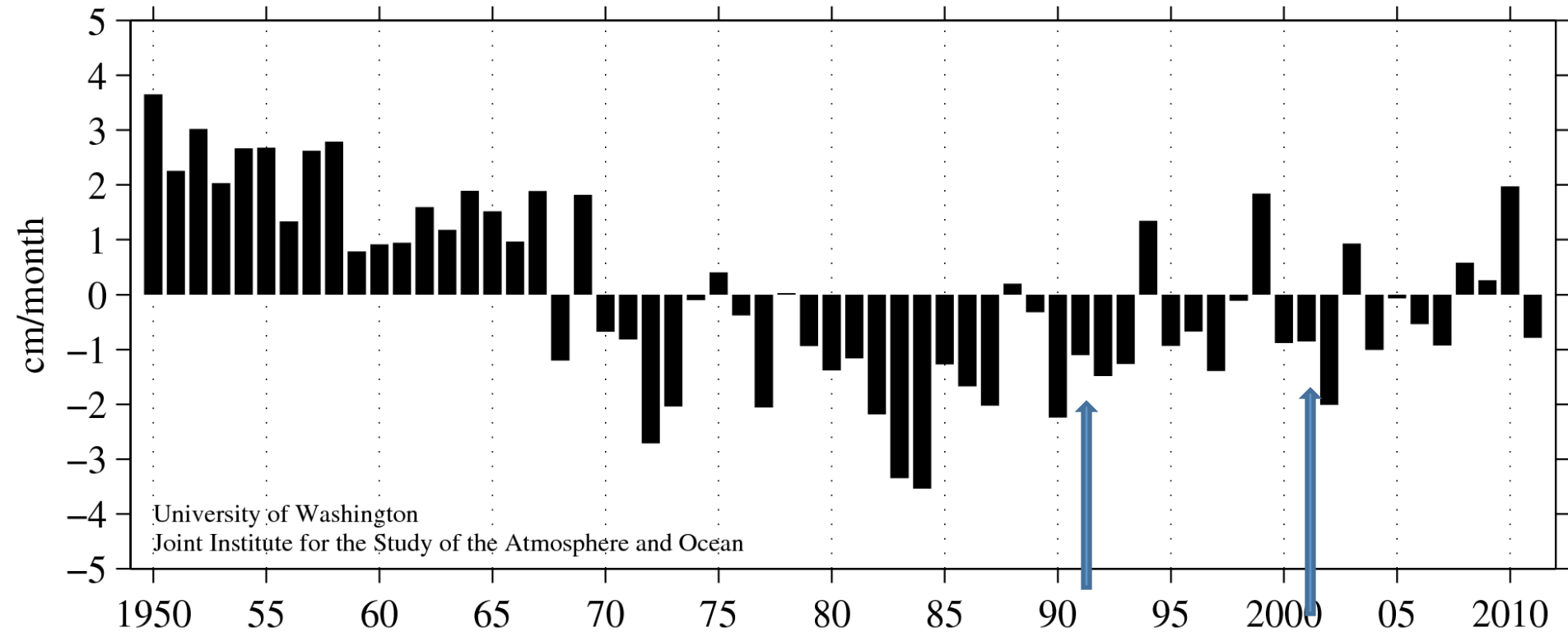
Youcef Ait Chellouche

UN ISDR AFRICA



- 2010 was well above average 2011 was average to below average...etc

Sahel precipitation anomalies 1950–2011



June through October averages over 20–10N, 20W–10E. 1950–2011 climatology.
NOAA NCDC Global Historical Climatology Network data



United Nations
International Strategy for Disaster Reduction

Message 1

- Climate science to help **anticipate** risks.
- Risk = hazard x consequences
 - up to 300mm over tropical forest is normal
 - 47 mm in Agades (north Niger) is the “flood of the century”

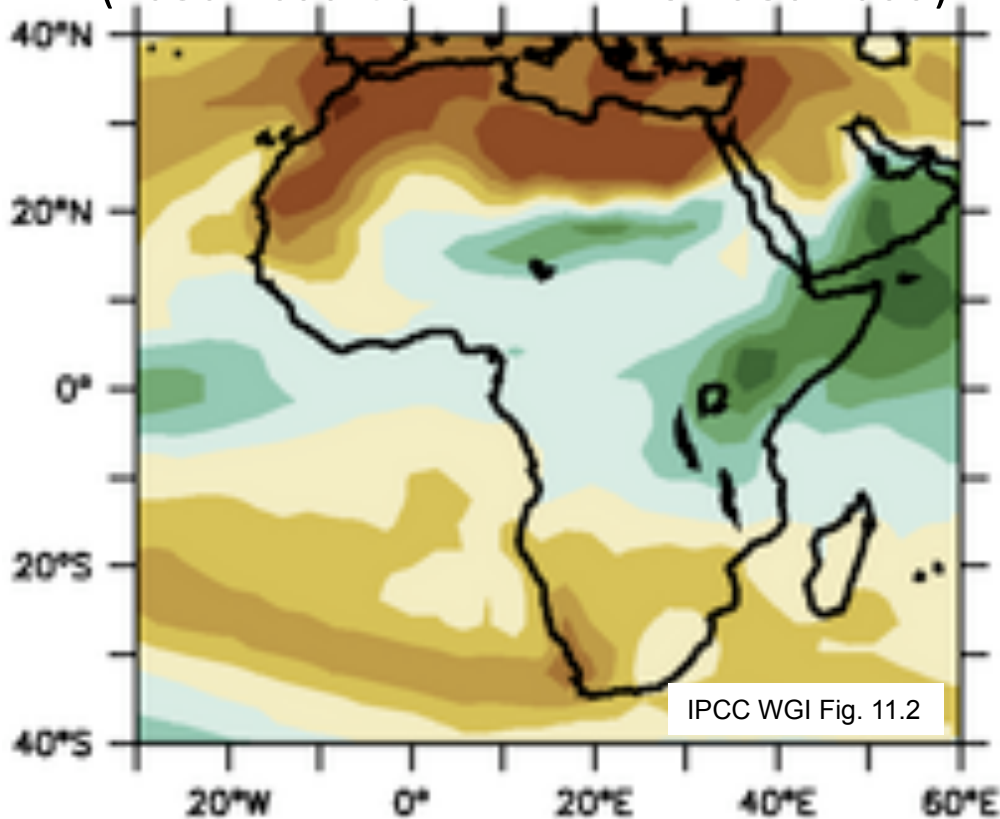
Climate science to work with Disaster Risk managers to make risk statements.



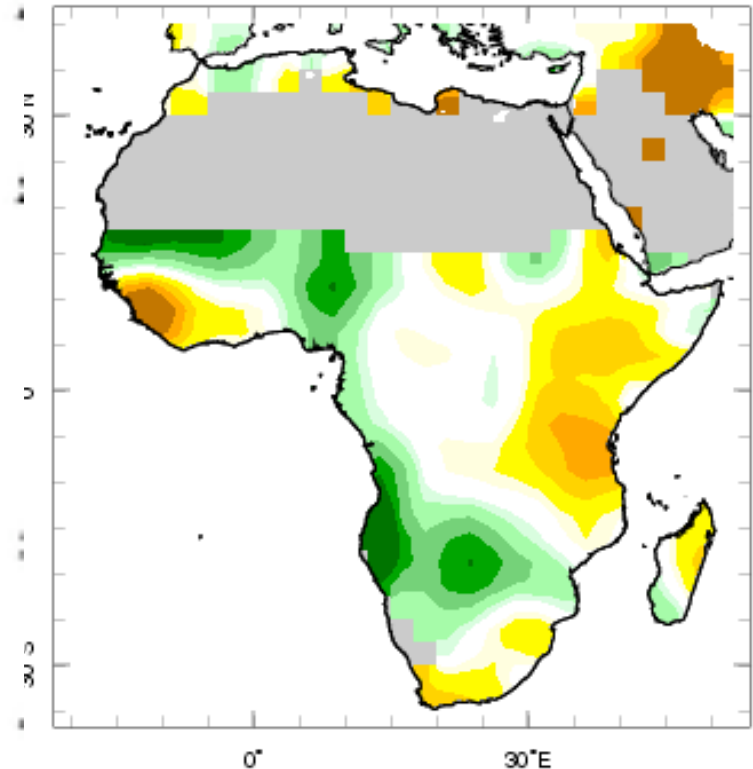
United Nations
International Strategy for Disaster Reduction

Model Projections Compared to Recent Trends

PROJECTED % CHANGE IN RAINFALL
(2080-2099 COMPARED TO 1980-1999)



OBSERVED % CHANGE IN RAINFALL
(1999-2011 COMPARED TO 1979-1998)



In many areas, most notably East Africa, recent trends have been opposite to the long-term projected changes in rainfall.



United Nations
International Strategy for Disaster Reduction

Message 2

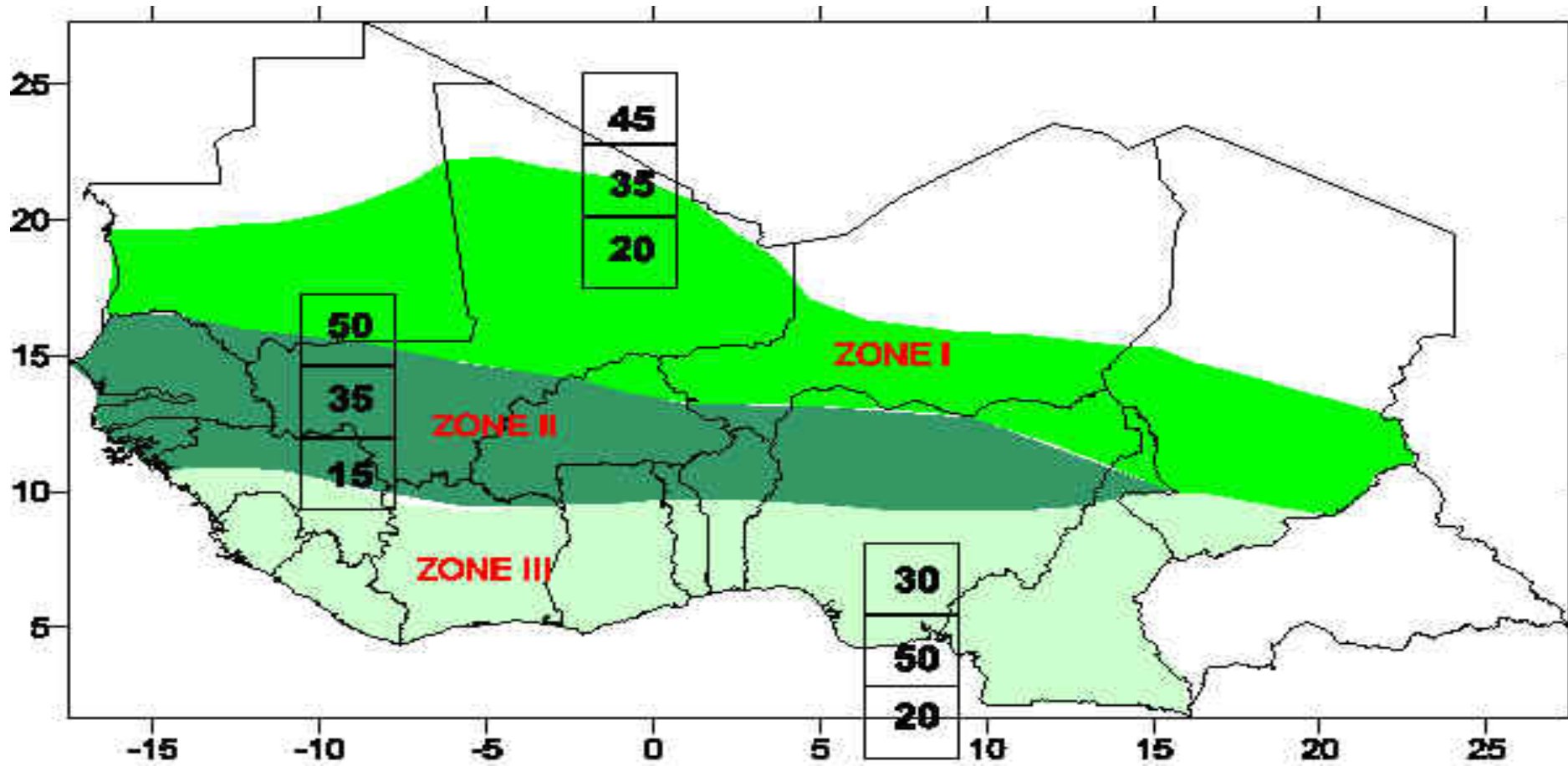
Which time scale?

- **CCA and related risk reduction programme should agreed on time scale and define related decision makers and decision making processes.**



ISDR

United Nations
International Strategy for Disaster Reduction





United Nations
International Strategy for Disaster Reduction

Message 3

- Zone I above normal condition while localized dry spell are possible. (pastoralist question is my village in the localized dry spell ---risk reduction measure are different...)
- question: downscaling or integrating Indigenous Knowledge for localized forecast?

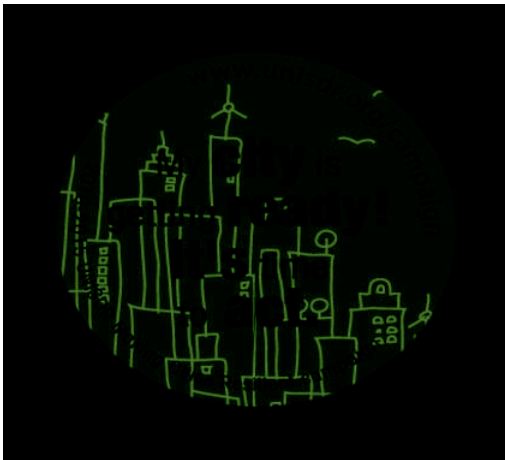


United Nations
International Strategy for Disaster Reduction



Making Cities Resilient Campaign:

My city is getting ready!





United Nations
International Strategy for Disaster Reduction

Message 4

- Cities: More people, more investment and more risks
- Some cities produces up to 80% of the Nation GDP
- **How climate change will impact cities?**
- **Enough water for cities (people, industry and services?)**
- **DRR managers to engages with mayor and local authorities.**



- No death, few injuries
-no water, no electricity, children cannot reach schools, bridge destroyed, people cannot access PHC, goods have to make important detour, prices increases.....





United Nations
International Strategy for Disaster Reduction

Message 5

- In the last decade the focus was on human vulnerability.
- Time is come now to deal also with **exposure of basic service delivery systems and infrastructure to risks.**



United Nations
International Strategy for Disaster Reduction

Message 6

- Do not act in isolated way but BUILD PARTNERSHIP.
- **DRR, CCA and Sustainable development are all different components of the future we want.**



United Nations
International Strategy for Disaster Reduction

Thank you

youcef.ait-chellouche@unep.org

savelives@gmail.org

www.unisdr.org

www.preventionweb.net