

World Meteorological Organization

Working together in weather, climate and water

TOKYO CONFERENCE ON INTERNATIONAL STUDY FOR DISASTER RISK REDUCTION AND RESILIENCE

Tokyo, Japan 14 January 2015 Jerry Lengoasa WMO Deputy Secretary General

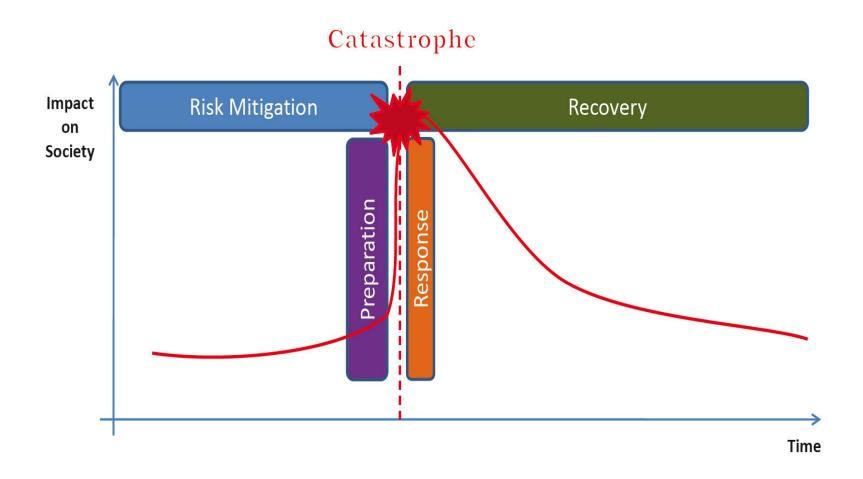


WMO

- National Meteorological and Hydrological services (191) are Members
- Normative, Research, Operations and Services
- Global, Regional and National
- Weather, water and Climate EWS and Risk Assessments
- The whole is greater than the sum of individual parts

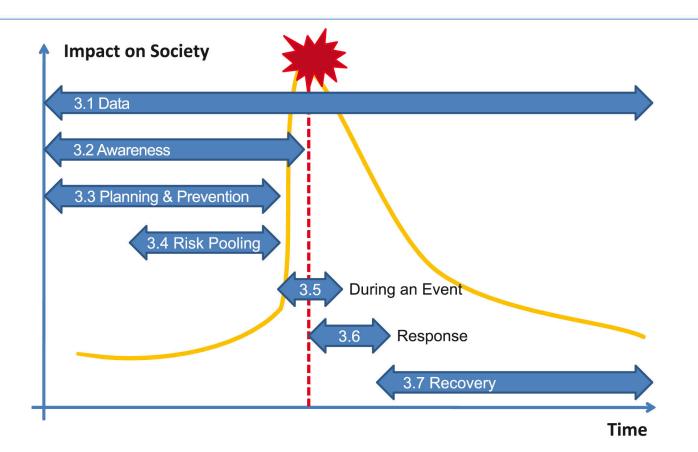


DISASTER RISK MANAGEMENT



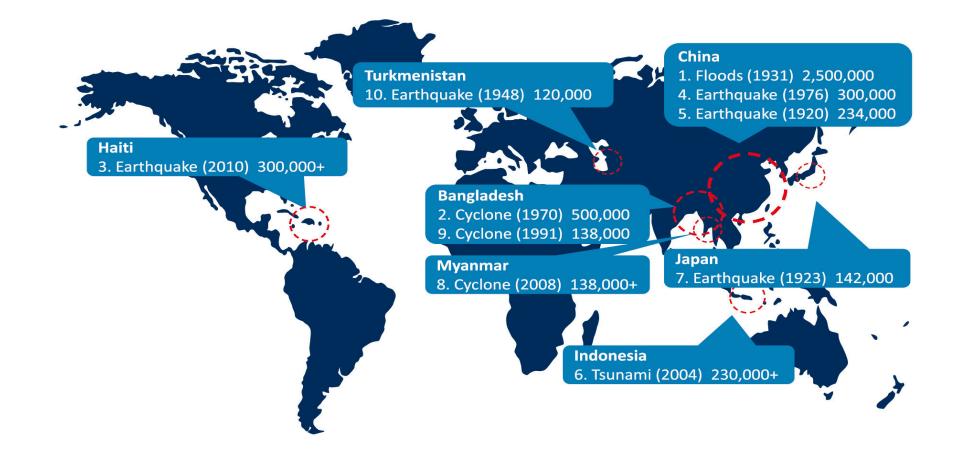


Building resilience



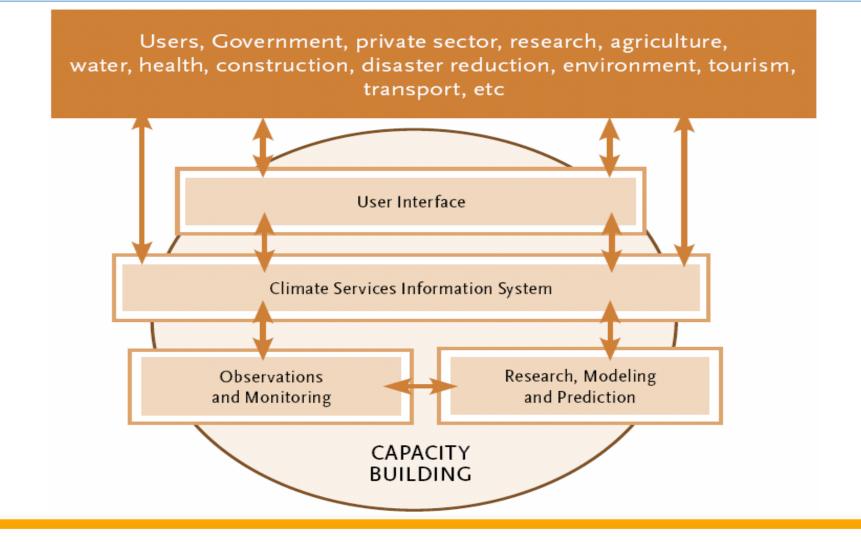
• WEF, 2011







The vision of the GFCS





The goals of the GFCS

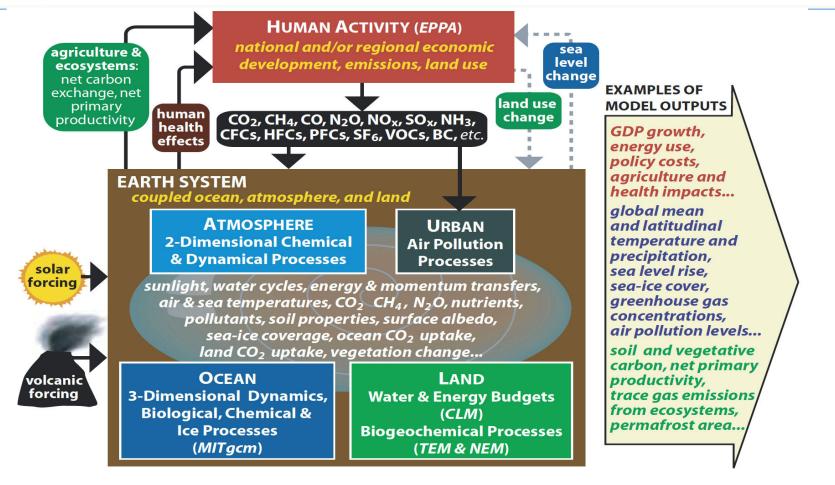




- Provide climate services for the most vulnerable aiding in the adaptation to seasonally, yearly and multi-yearly reoccurring events
- Close the gaps between climate data providers and users both in the availability and handling
- Serve as a platform to bring together all involved stakeholders ranging from globally acting agencies to the farmers on the ground



Modelling science-policy interface



MIT,

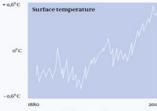


Science underpins policy | The vision, progress and strategy

What we know

The UNFCCC calls on national governments to promote and cooperate in research and systematic observation of the global climate system – a key prerequisite for advancing scientific knowledge on climate change.

Observe



The world is warming Global average temperature has been increasing since 1870 by 0.85°C.

Driver of changes



CO₂ remains the main driver Natural and human-caused substances and processes that alter the Earth's energy budget are drivers of climate change.

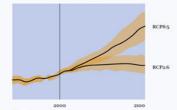
Understand changes



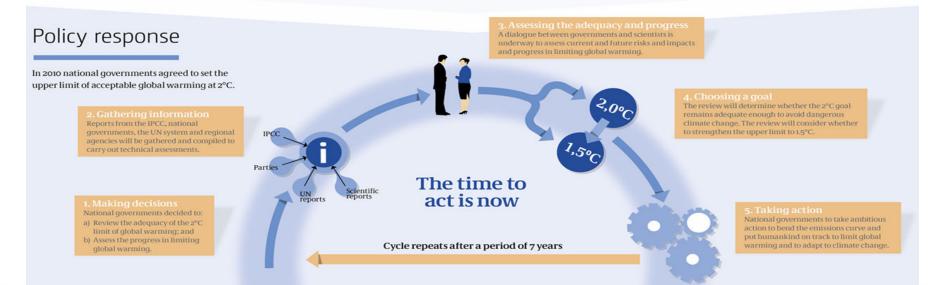
satural and houses causes satural causes

Human influence is clear It is clear that human influence has been the dominant cause of the observed warming since the mid-20th century.

Future changes



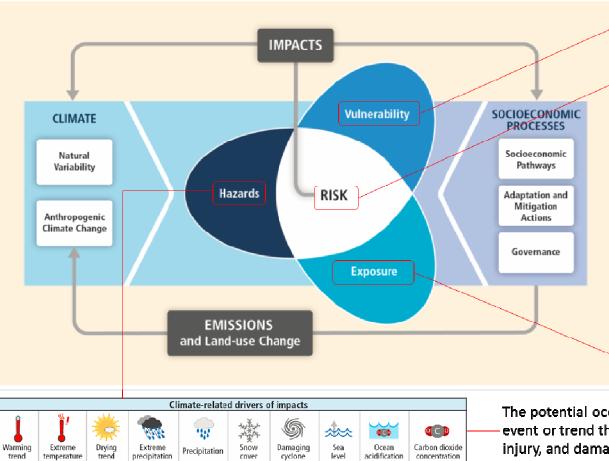
The heat is on! Global average temperature change by the end of the 21st century is likely to rise 1.5°C above pre-industrial levels.





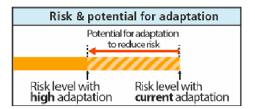
Science | Mapping the problem and the 'solution space'

Core framing in terms of risks



The propensity or predisposition to be adversely affected

Risk: an interaction of hazards, vulnerability and exposure



People and societies may perceive or rank risks and potential benefits differently, given diverse values and goals

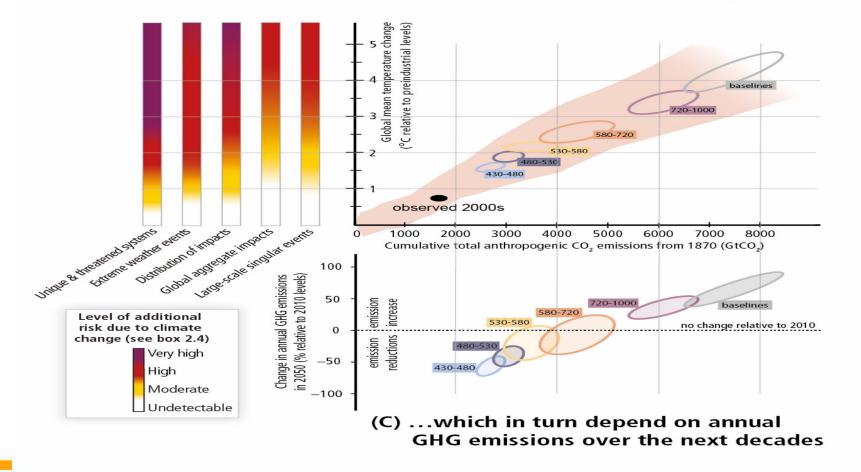
Very	Risk level	Verv
low	Medium	high

The presence of people and livelihoods in places that could be adversely affected

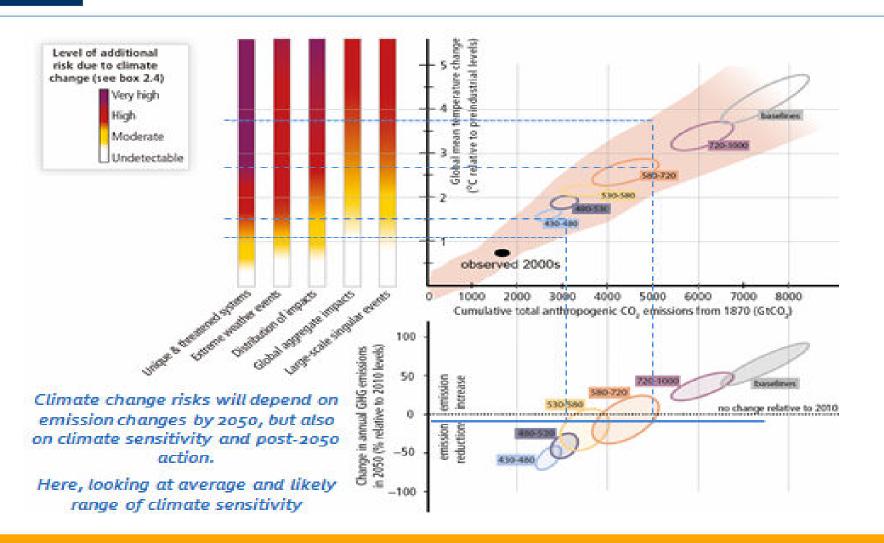
The potential occurrence of a physical event or trend that may cause loss of life, injury, and damage



(A) Risks from climate change... (B) ...depend on cumulative CO₂ emissions...









Some decisions needing science support

- Disaster Risk Reduction post Hyogo
- Sustainable Development post 2015
- Climate Change agreement post 2015
- Habitat III 2016



Thank you

