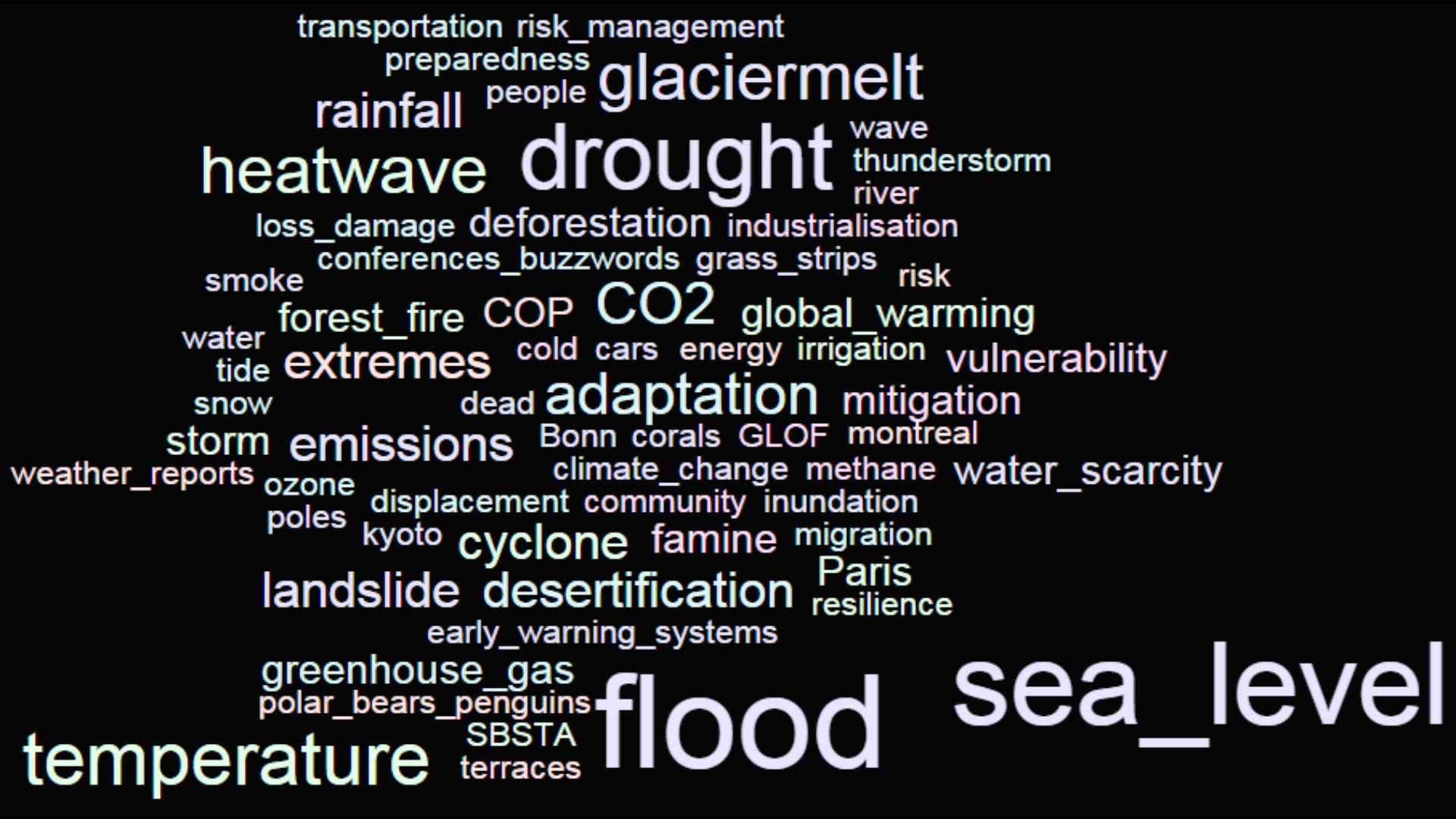
SNAP word cloud – Swiss NGO DRR Platform 10 Nov



Red Cross Red Crescent Climate Centre

Science

Policy ↔ Practice

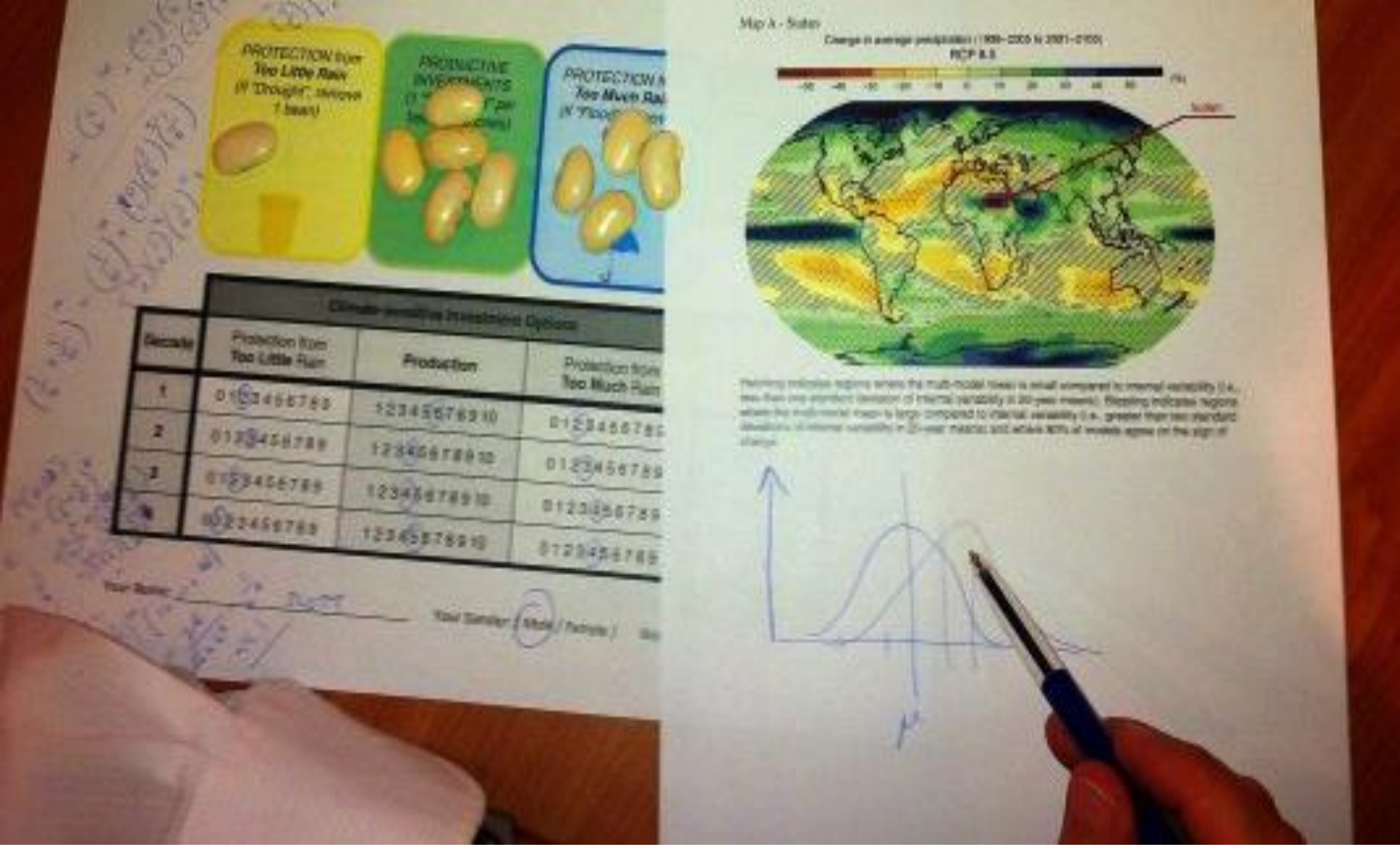
Where the magic happens
Your Comfort Zone

Communication of climate risk through games

Communities across the globe

Games for a New Climate: US. Pablo Suarez plays *Dodging the Storm* at the White House in Washington, DC. (Photo: American Red Cross)

The White House, Washington, DC



With IPCC Lead Authors

START
GLOBAL CHANGE SYSTEM FOR ANALYSIS, RESEARCH, AND TRAINING

ISDR
International Strategy for Disaster Reduction
Africa

THE ROCKEFELLER FOUNDATION

IFAD

African Union
a United and Strong Africa

WORLD RESOURCES INSTITUTE

WFP

JICA

Aalto University

Oxfam America

MIT

ODI

Stanford University

OPDS
Organismo Provincial para el Desarrollo Sostenible

HARVARD HUMANITARIAN INITIATIVE

Sida

UNFCCC

American Red Cross

CDKN
Climate & Development Knowledge Network

SWISS NGO DRR PLATFORM

ipcc
INTERGOVERNMENTAL PANEL ON climate change
WMO UNEP

RED CROSS/RED CRESCENT CLIMATE CENTRE

International Federation of Red Cross and Red Crescent Societies

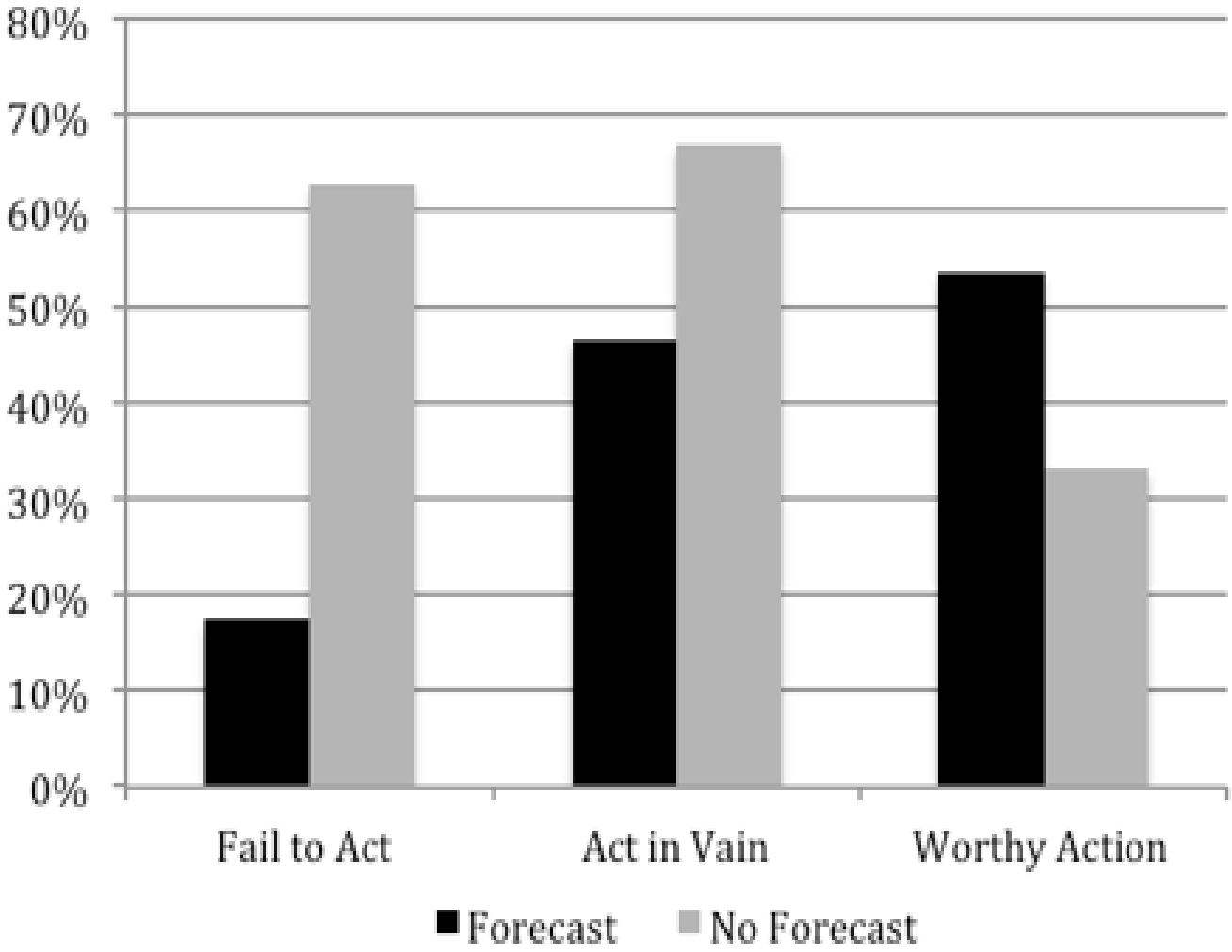
The Netherlands Red Cross

CLIMATE CHANGE ADAPTATION

Options – and consequences

	Does the extreme event materialize?	
	Disaster	*No Disaster*
Action	**"Worthy Action"** *(Decide to act, then event materializes and losses are avoided)*	***"Act in Vain"*** *(Decide to act, then event doesn't happen – perceived as wasteful)*
Inaction	***"Fail to Act"*** *(Decide not to act, then event occurs leading to avoidable losses)*	***"Worthy Inaction"*** *(Decide not to act, then event doesn't happen)*

(Suarez & Tall 2010)


80%
70%
60%
50%
40%
30%
20%
10%
0%
Fail to Act
Act in Vain
Worthy Action
Forecast
No Forecast

Red Cross Red Crescent:

CENTRES OF EXPERTISE AROUND THE WORLD

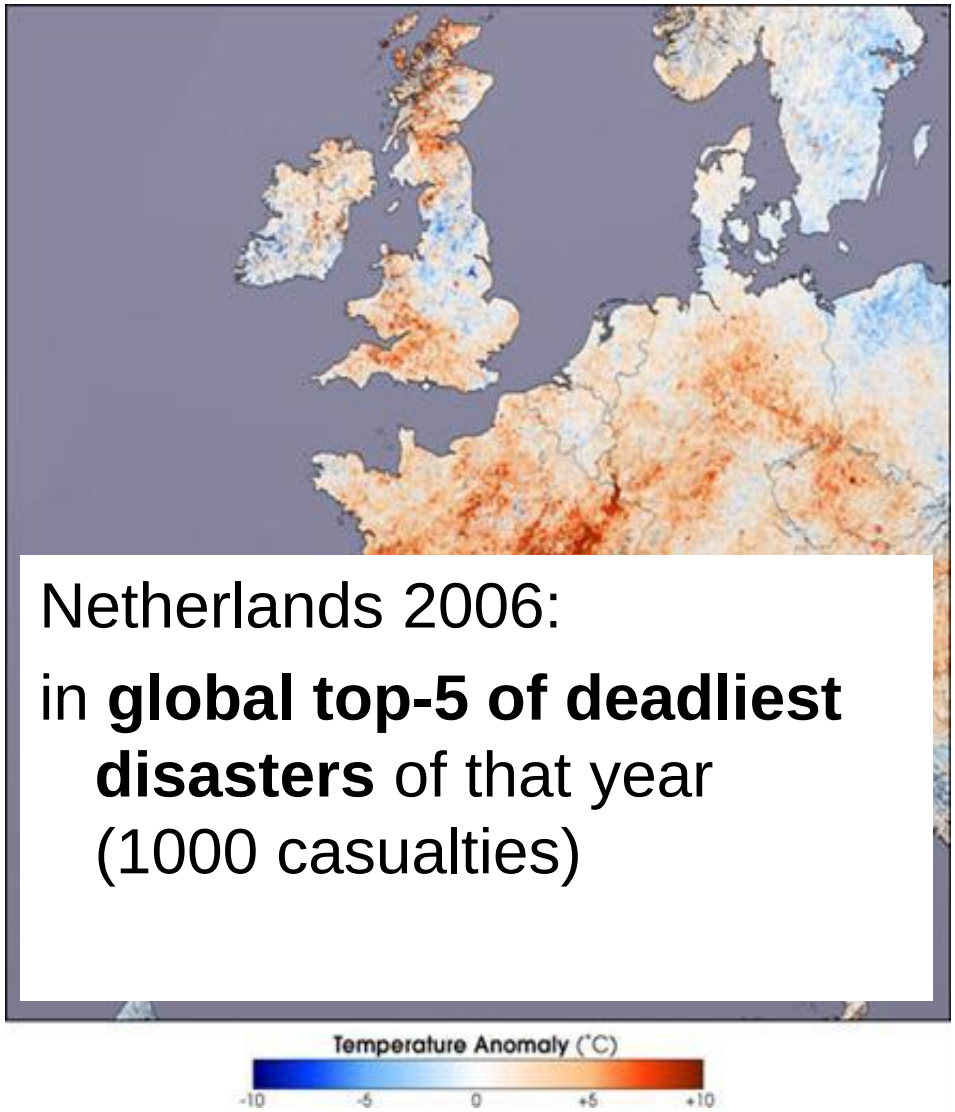
1. Caribbean Disaster Risk Management Reference Centre
2. Centre for Evidence-Based Practice
3. Climate Centre
4. Global Disaster Preparedness Centre
5. Global First Aid Reference Centre
6. Livelihoods Resource Centre
7. Reference Centre for Community Resilience
8. Reference Centre for Institutional Disaster Preparedness
9. Reference Centre for Psychosocial Support
10. Shelter Research Unit
11. Reference Centre on Volunteering

Red Cross Red Crescent Climate Centre

Science

Policy ↔ Practice

Heat waves



Netherlands 2006:

in **global top-5 of deadliest disasters** of that year (1000 casualties)

DEATH TOLL 2003

France	14,802
England & Wales	2,045
Portugal	1,316
The Netherlands	1,400
Italy	4,175
Spain	4,230
Germany	7,000
Belgium	150
Total death toll:	>35,000

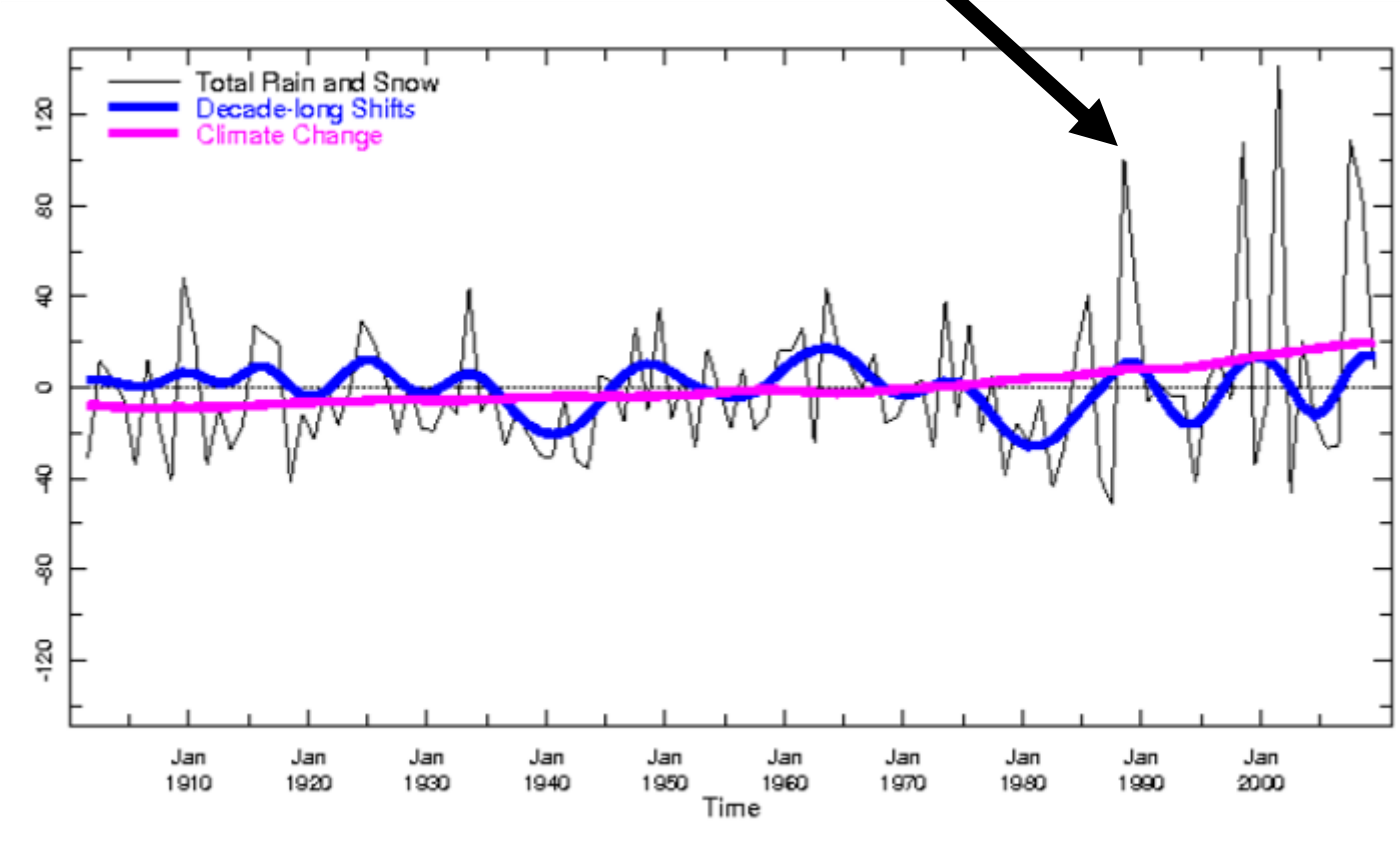
Early Warning, Early Action

Routinely taking humanitarian action ***before*** a disaster or health emergency happens, making full use of scientific information on all timescales

Sri Lankan example: rainfall change

New record highs

Long term average



Early warning, early action

Bridging time scales

Climate change
Rising risks, trends, more surprises

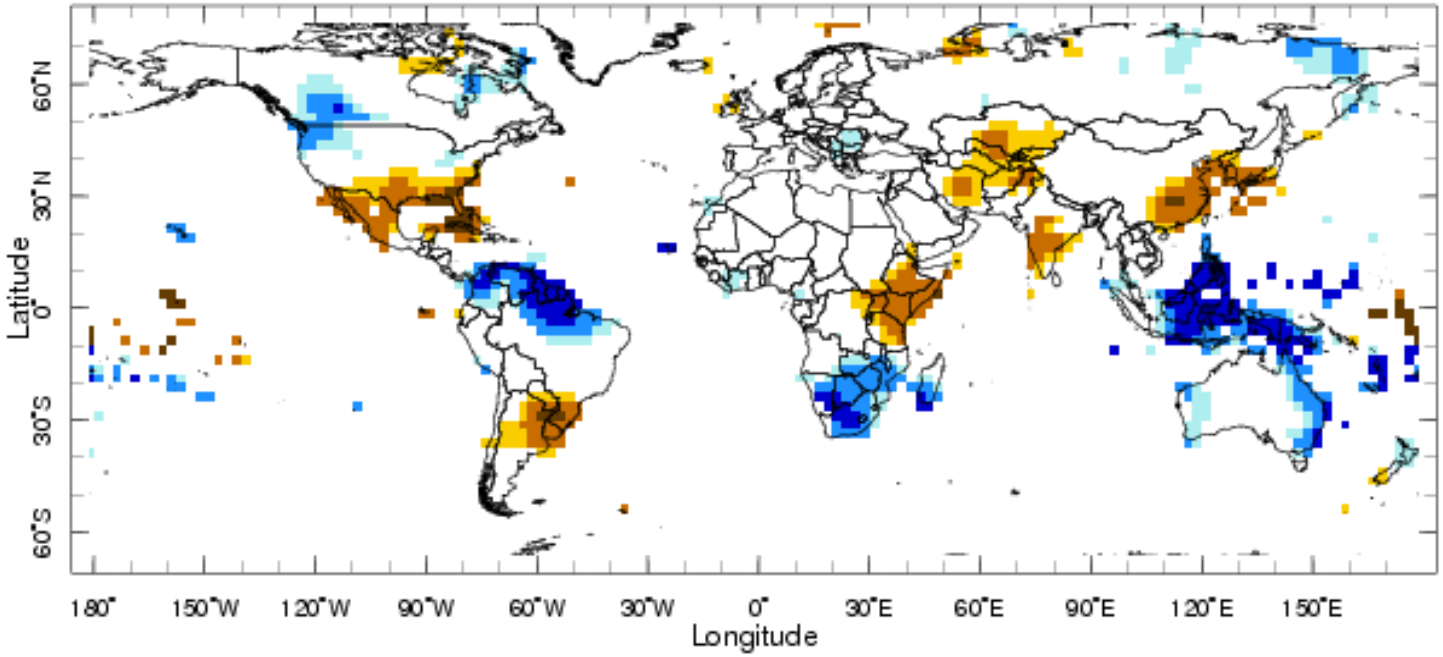
More specific information

Seasonal forecasts
Level of risk in coming months

More time to reduce risk

“Regular” forecasts
Impending hazard

Seasonal rainfall forecast
issued October 2010 for upcoming November-January



Forecast for Nov 2010 - Jan 2011, Forecast Issued Oct 2010

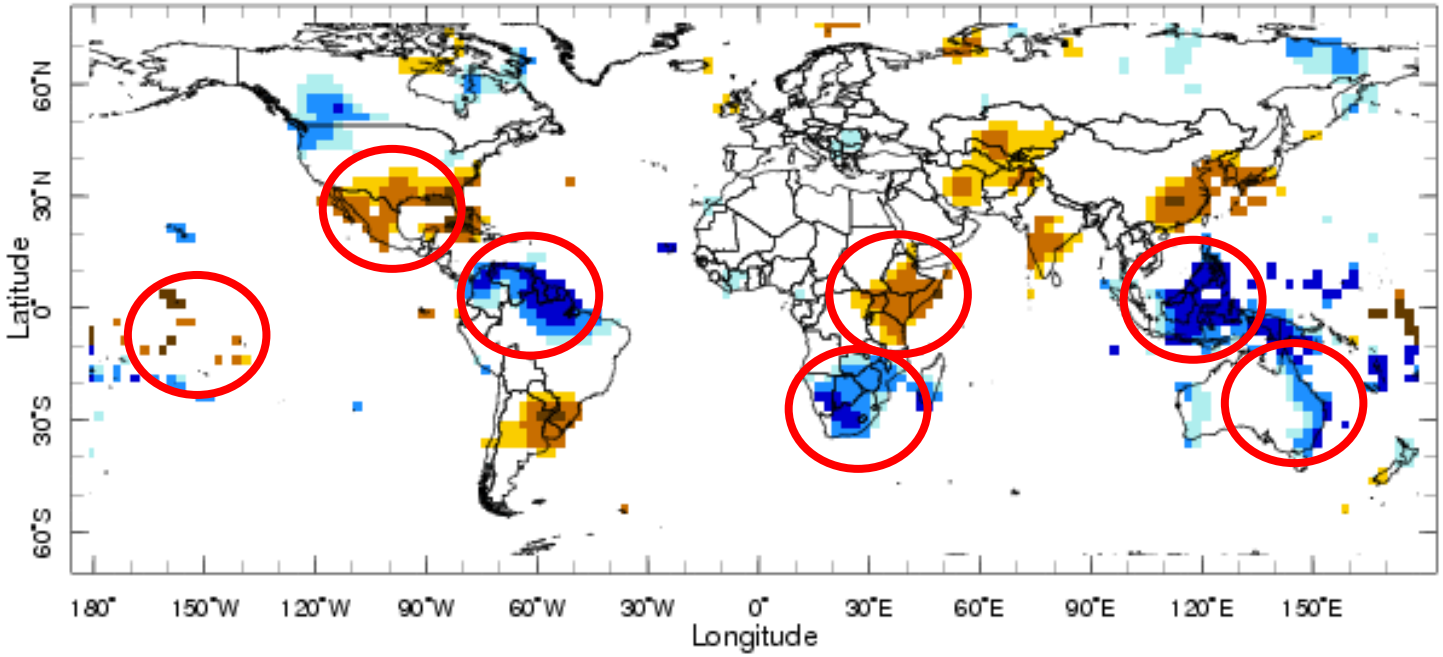
How confident can we be that the next 3 months will be unusually wet?

Low Confidence (35% to 40% Chance)	Medium Confidence (45% to 50% Chance)	High Confidence (55% Chance or Greater)

How confident can we be that the next 3 months will be unusually dry?

Low Confidence (35% to 40% Chance)	Medium Confidence (45% to 50% Chance)	High Confidence (55% Chance or Greater)

Areas that experienced flooding or drought that November-January



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How confident can we be that the next 3 months will be unusually dry?

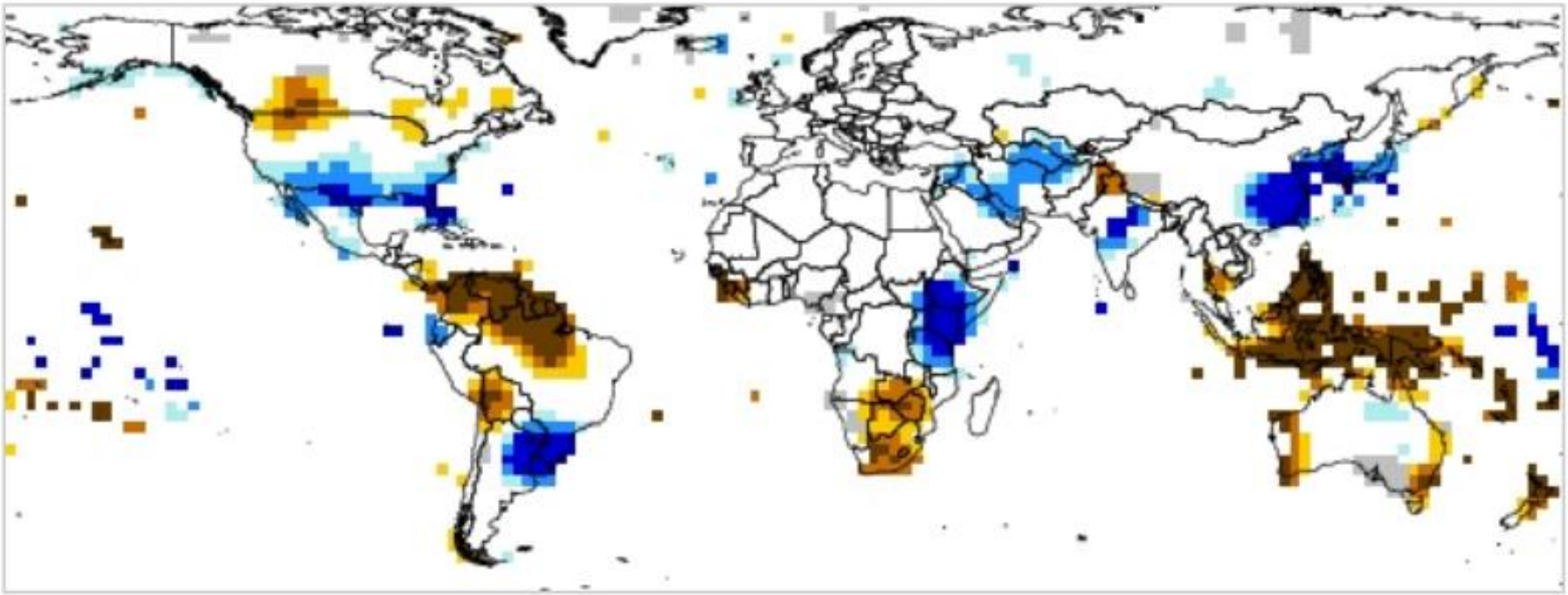
Low Confidence (35% to 40% Chance)	Medium Confidence (45% to 50% Chance)	High Confidence (55% Chance or Greater)

Global Forecast

Total Rain and Snow November 2015 – January 2016

Produced by the Red Cross Red Crescent Climate Centre and the International Research Institute for Climate and Society (IRI)

Issued October 2015
IRI's next forecast:
19 November 2015



Will this season will be unusually wet?

Wet: **Highly increased** chance (55% or greater)	Wet: **Moderately increased** chance (45-50%)	Wet: **Slightly increased** chance (35-40%)

No new information
Slightly decreased chance of unusually wet or unusually dry

Will this season will be unusually dry?

Dry: **Slightly increased** chance (35-40%)	Dry: **Moderately increased** chance (45-50%)	Dry: **Highly increased** chance (55% or greater)

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The Netherlands Red Cross

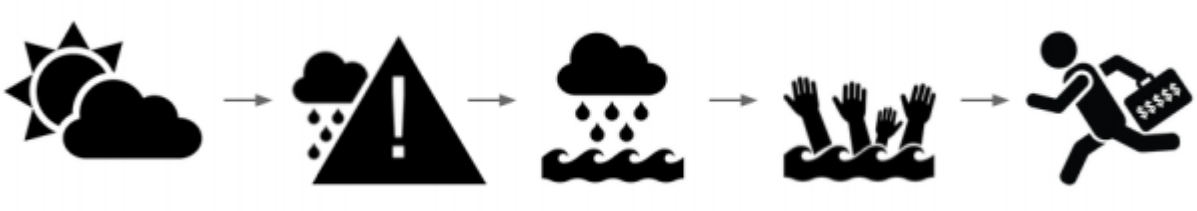
University of Reading | RED CROSS/RED CRESCENT CLIMATE CENTRE | International Federation of Red Cross and Red Crescent Societies | The Netherlands Red Cross

FORECAST-BASED ACTION

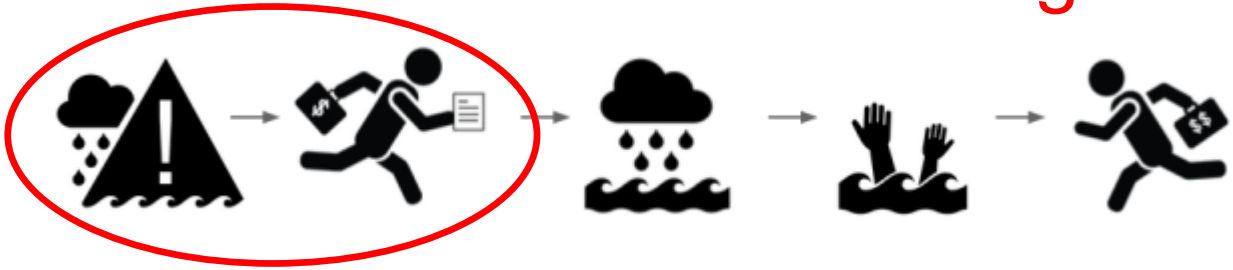
In late April 2015, the Uganda Red Cross Society conducted a drill rehearsing the distribution of water purification tablets according to standard operating procedures for a forecast-based financing project. Pictured is Deborah Amujal, URCS focal person for the climate change adaptation project, explaining the session to residents. (Photo: Eddie Jjemba / Climate Centre)

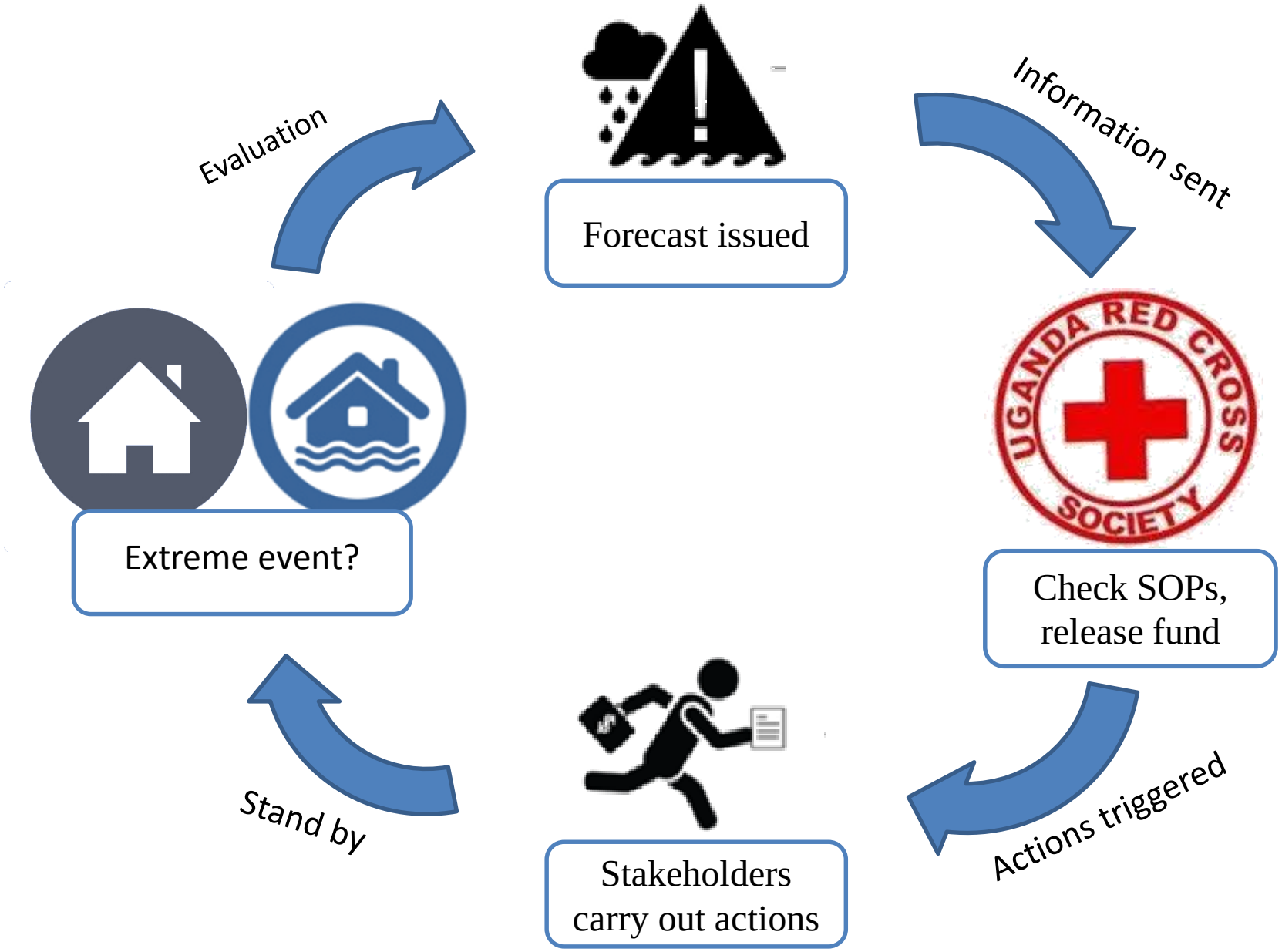
E·S·R·C ECONOMIC & SOCIAL RESEARCH COUNCIL | UKaid from the British people | NERC SCIENCE OF THE ENVIRONMENT

”Traditional”



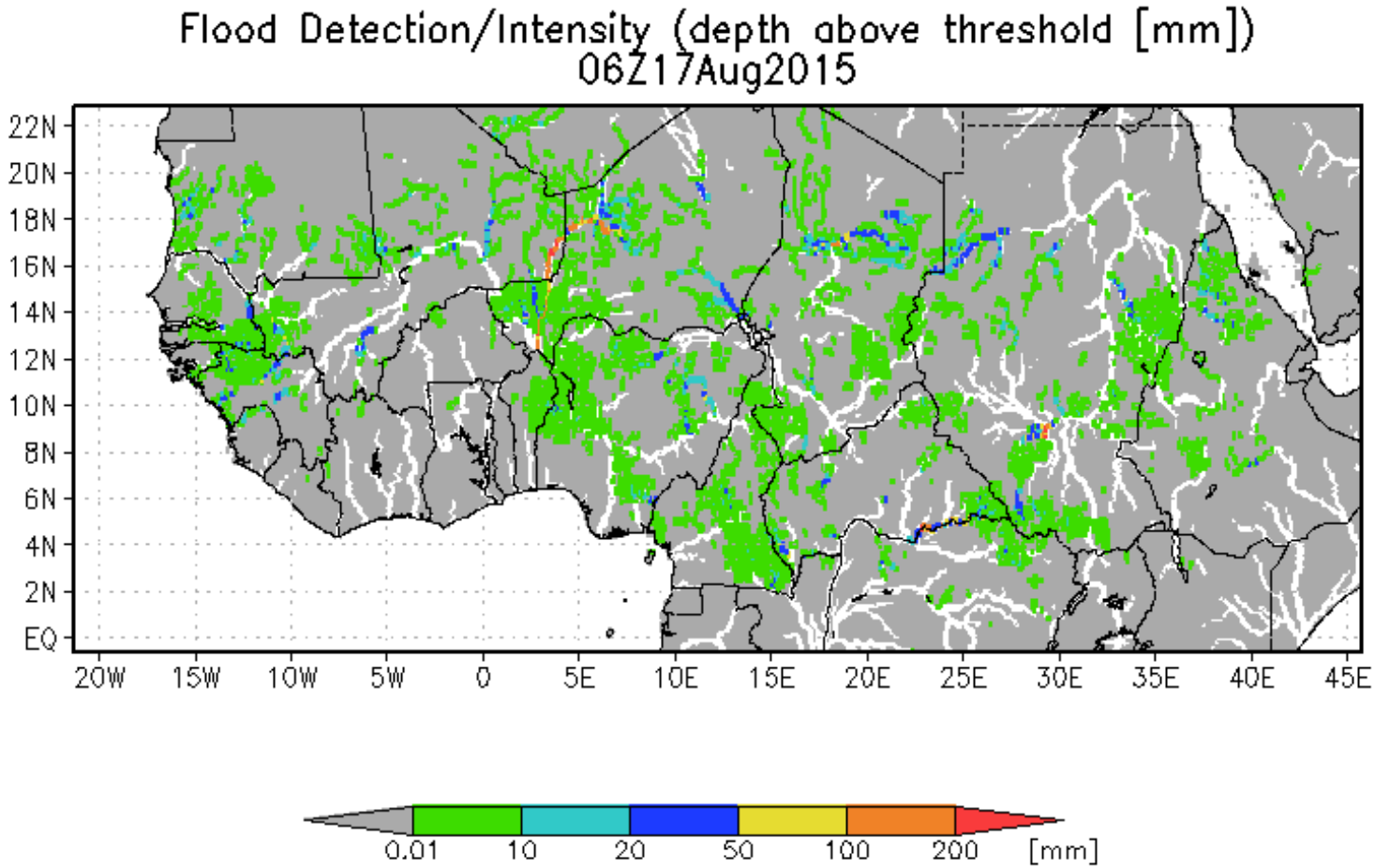
”Forecast-based Financing”




Forecast issued
Information sent
UGANDA RED CROSS SOCIETY
Check SOPs, release fund
Actions triggered
Stakeholders carry out actions
Stand by
Extreme event?
Evaluation

“*Reality of Resilience*”

- Monitor extremes: floods, droughts, tropical cyclones.
- “Real-time” satellite information



“Reality of Resilience”

Improved water management & EW-EA

Policy	Investments	Practice
Dialogues on increased EW-EA thinking in water management and infrastructure		Integrating Early warning Systems for downstream of dams in hydropower design & management
Lobby for National laws for issuing flood warnings	Lobby for guidelines for international finance support to water management projects to include EWS for downstream effects of dams	EW-EA across river basins

IFRC E-learning course

International Federation
of Red Cross and Red Crescent Societies

Learning time: 30 minutes

Runs on: Smartphone, Tablet and Desktop

Learning objectives

1. **Summarize** main causes of climate change
2. **Describe** impacts of climate change
3. **Explain** how climate change is expected to impact on the mandate and work of Red Cross Red Crescent National Societies
4. **Explain** the Red Cross Red Crescent approach to climate change
5. **Distinguish** between climate change adaptation and mitigation
6. **Explain** how using climate information on different timescales can help risk reduction, preparedness and response
7. **Clarify** the added value of a Red Cross Red Crescent National Society in addressing climate change and its urgency to do so

START LEARNING

START WHERE YOU LEFT OFF

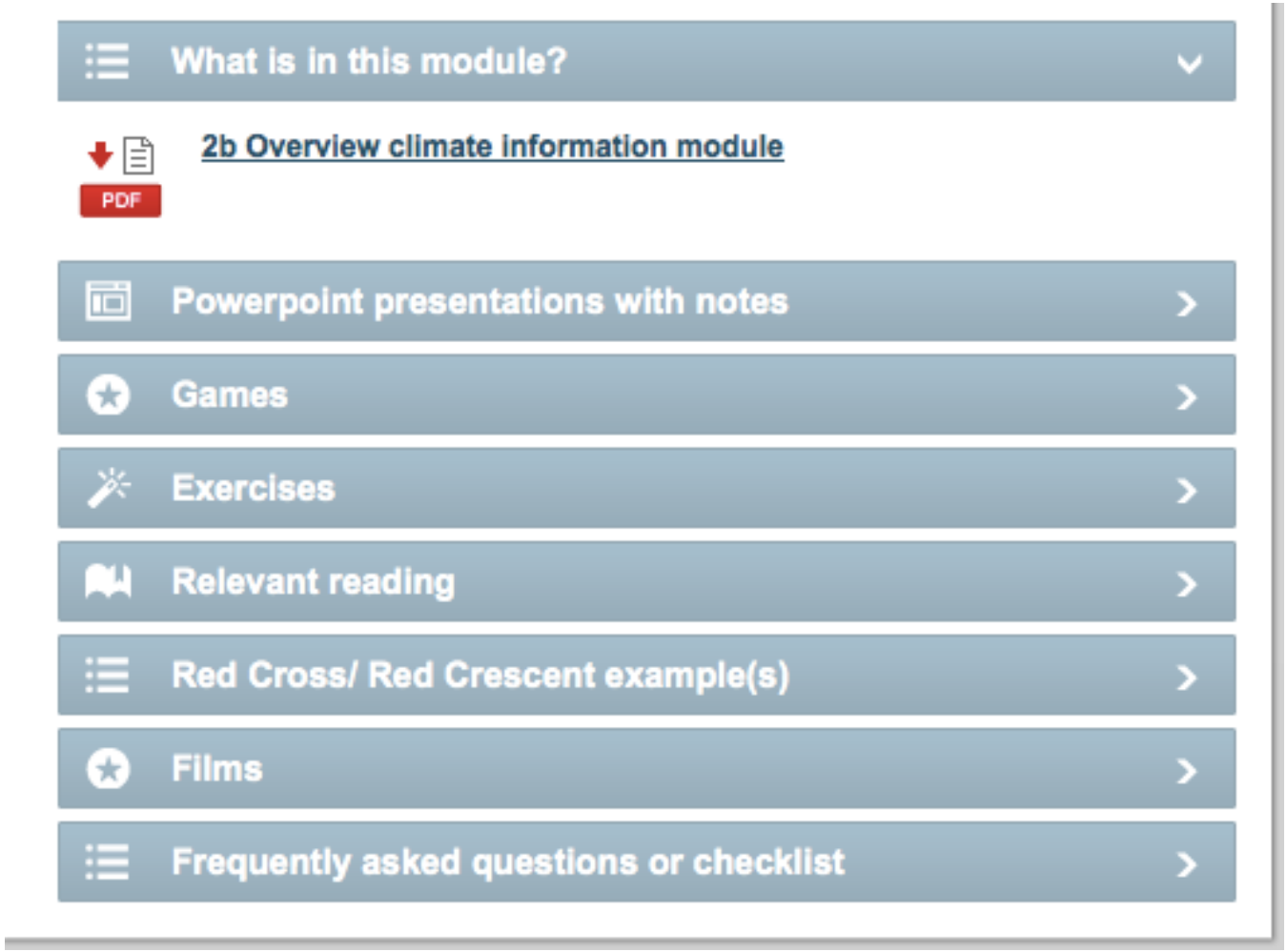
CLIMATE TRAINING KIT

Red Cross Red Crescent
Climate Training Kit

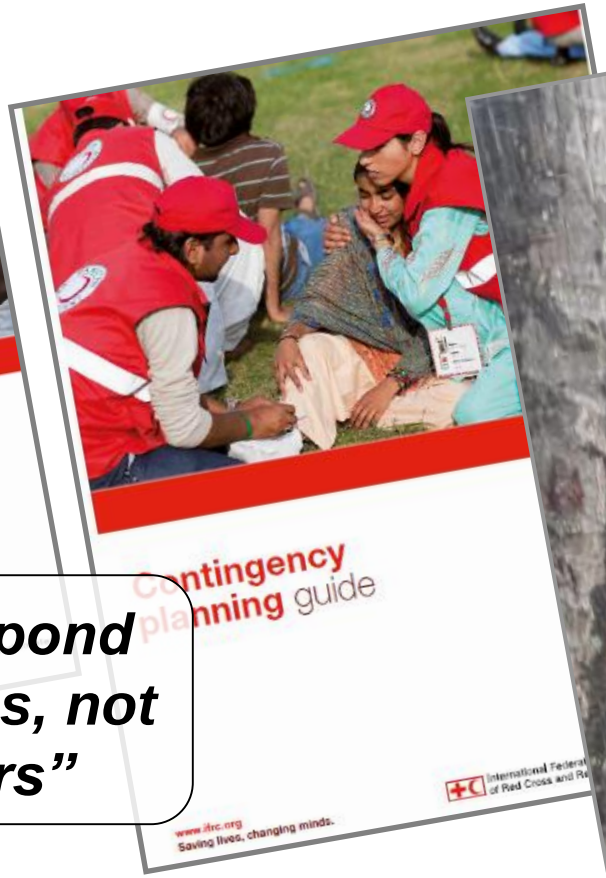
If you want to teach your colleagues or volunteers on the impacts of climate change and how the Red Cross Red Crescent can help to address increased climate risks, this is the training package for you!

www.climatecentre.org/training

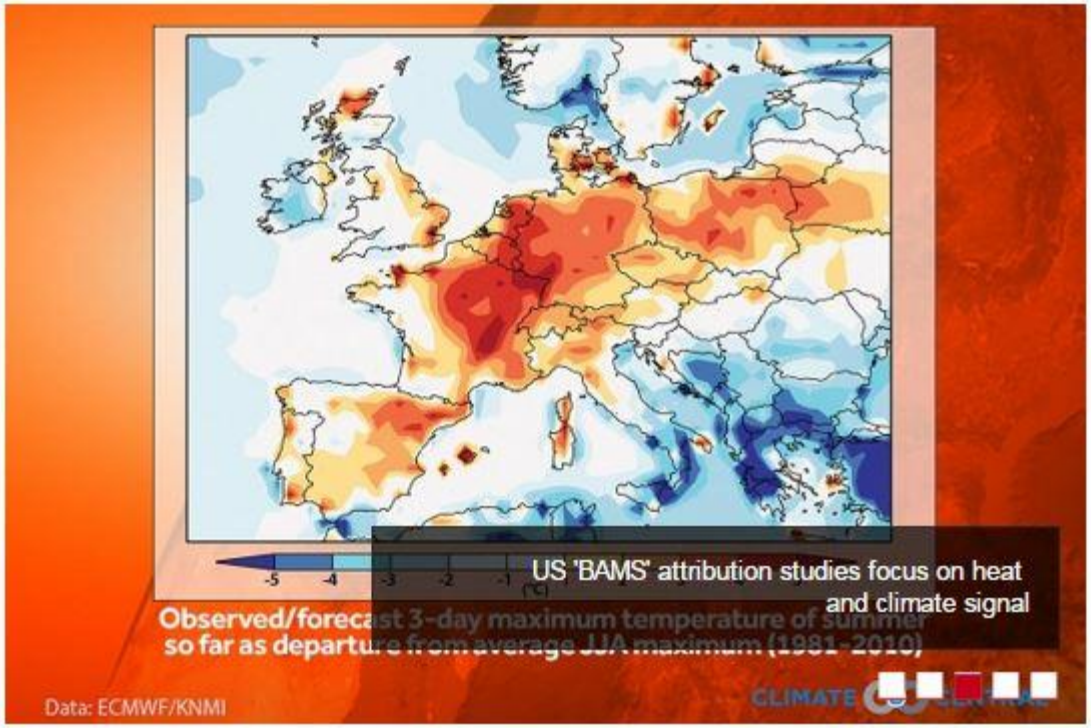
Interactive training resources on climate risk management for Red Cross and Red Crescent staff



Many tools



"...we respond to warnings, not disasters"



Red Cross Red Crescent
CLIMATE CENTRE

The Climate Centre supports the Red Cross and Red Crescent Movement and its partners in reducing the impacts of climate change and extreme weather events on vulnerable people.

How to help ▸

Follow us ▸

Latest

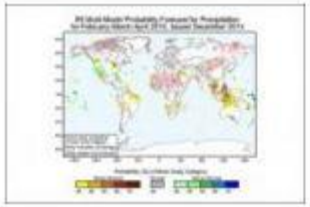
SEASONAL FORECASTS

Development & Climate days

IRI/IFRC HELPDESK

CLIMATE TRAINING KIT

play our climate GAMES

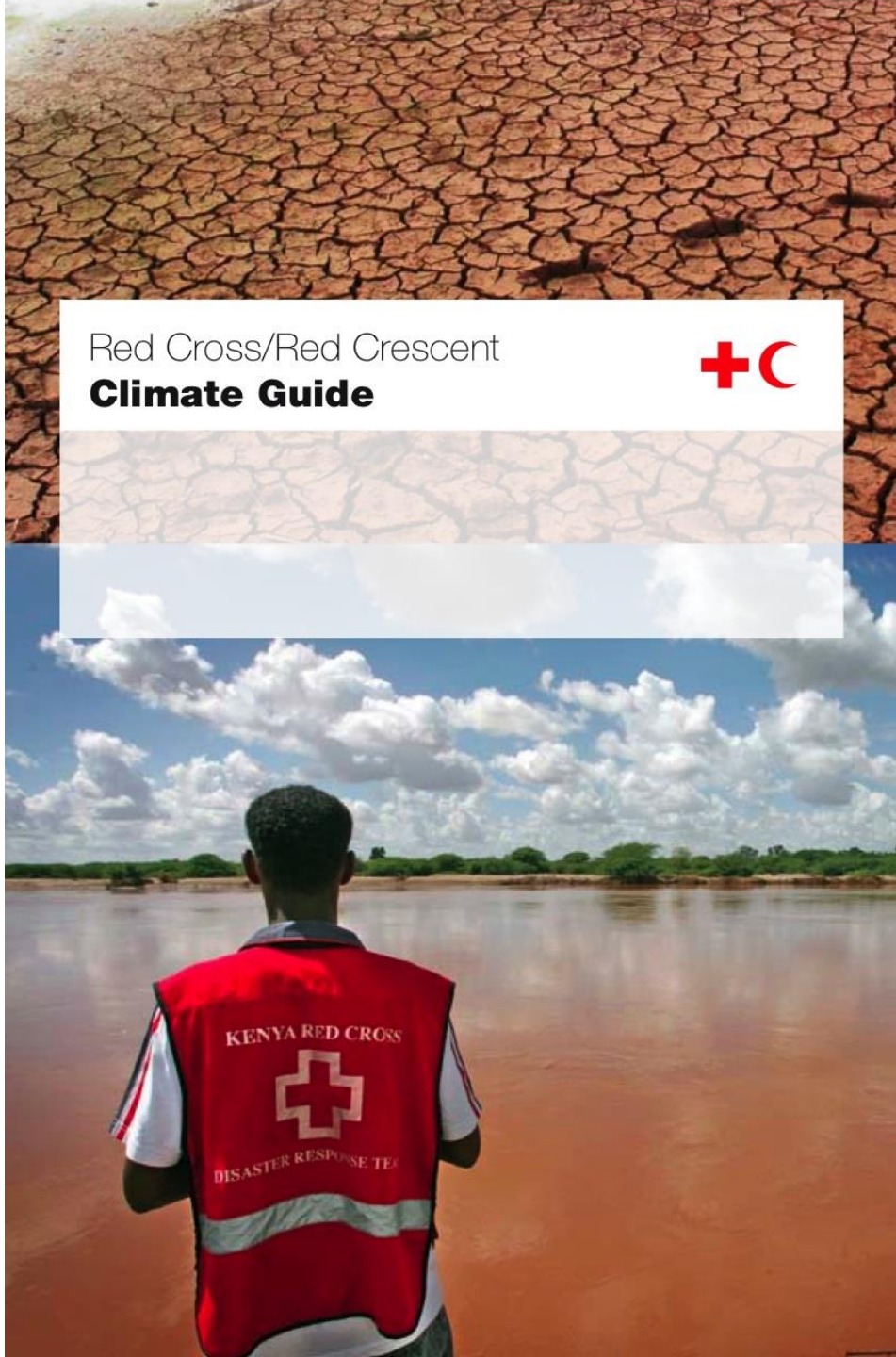


21/10/2015 - Global seasonal forecast Nov 2015-Jan 2016 #publications

read more

12/10/2015 - Weather and climate information to aid resilience in Vanuatu #news

read more

More resources
www.climatecentre.org

Knud Falk
falk@climatecentre.org