



United Nations  
International Strategy for Disaster Reduction

# **Disaster Risk Reduction & Climate Change Adaptation Using Disaster Inventories “Database” for Damage and Losses Assessment**

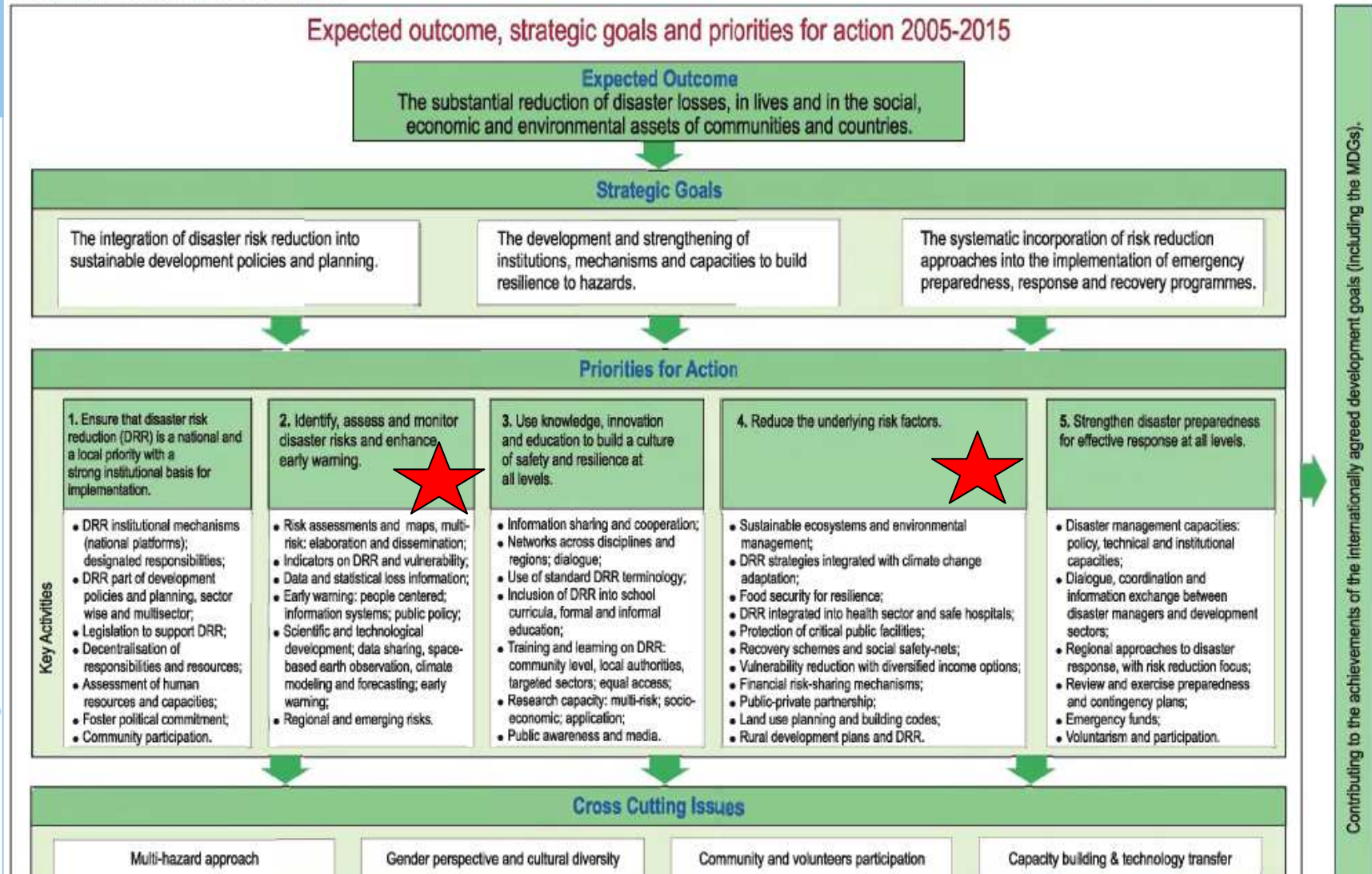
**Supporting the work programme on loss & damage under the  
Cancun Adaptation Framework**

**The 34th session of the UNFCCC Convention Subsidiary Bodies**

Presented by: Luna Abu-Swaireh  
UNISDR secretariat

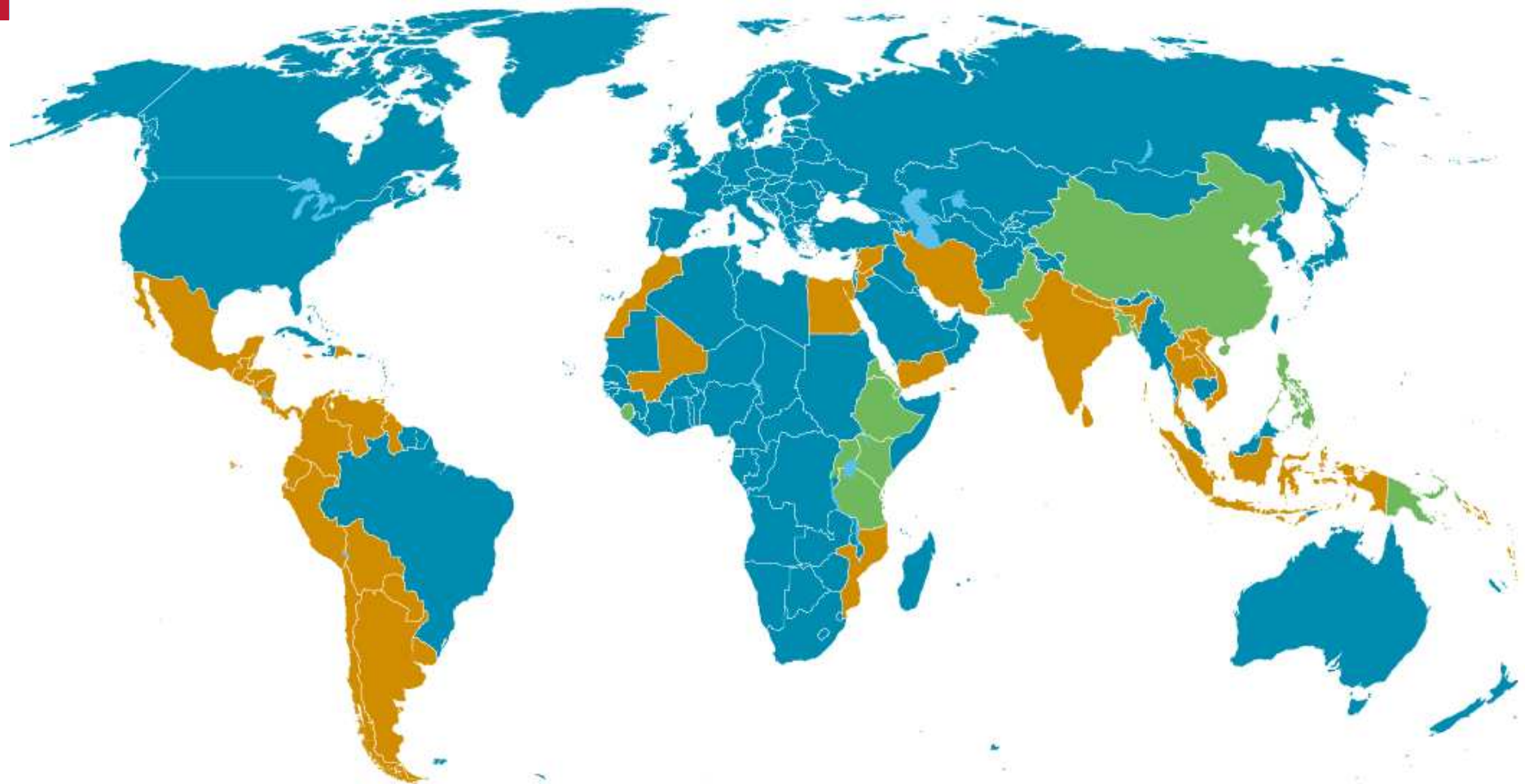
[www.unisdr.org](http://www.unisdr.org)  
[www.preventionweb.net](http://www.preventionweb.net)

## SUMMARY of the Hyogo Framework for Action 2005-2015: *Building the Resilience of Nations and Communities to Disasters*




**Using disaster databases and risk models to assess loss and damage associated with climate change impacts**

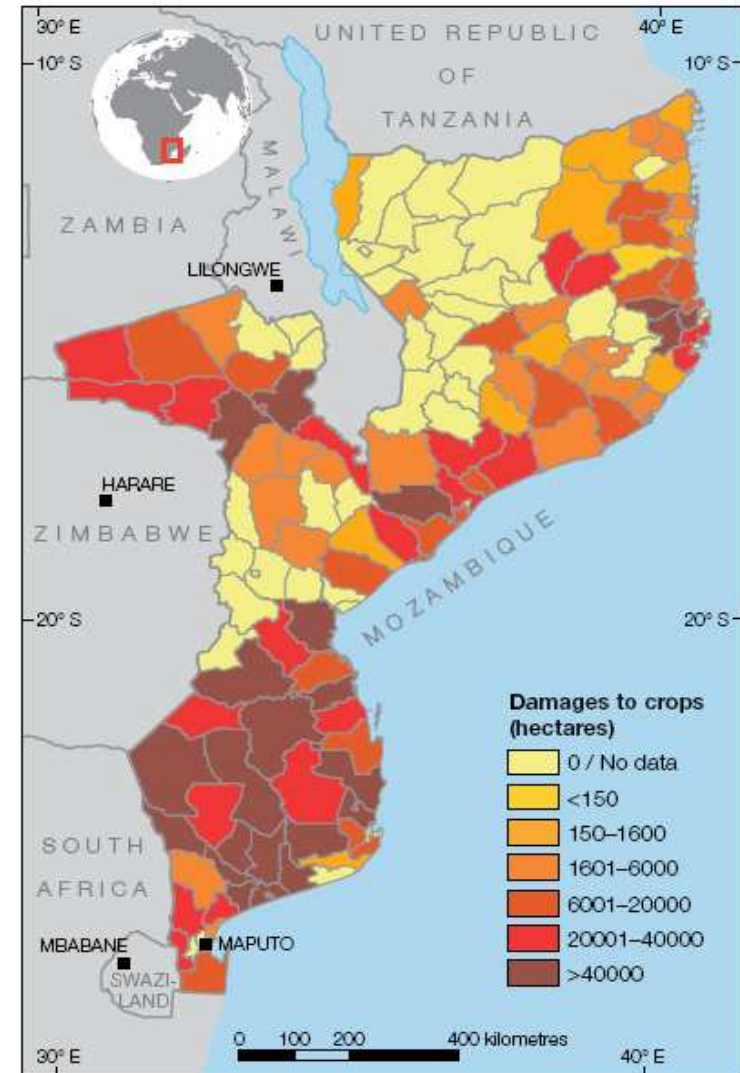
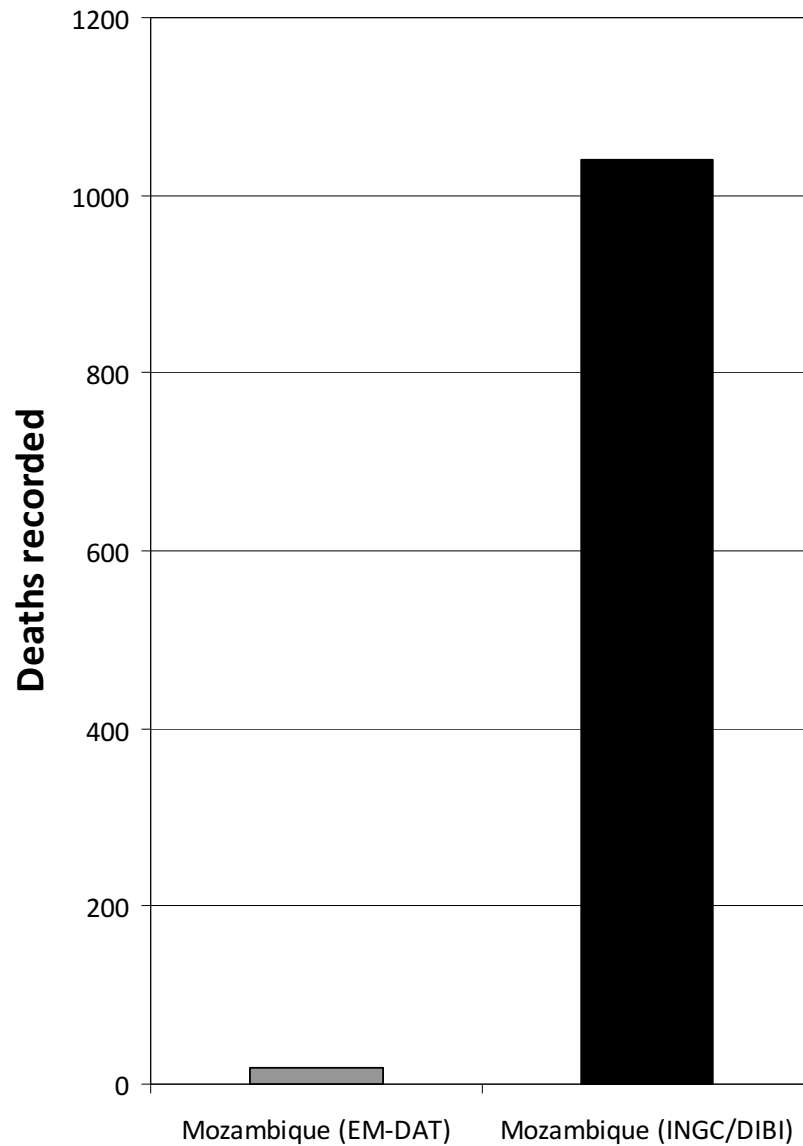
## Disaster Loss Databases around the Globe



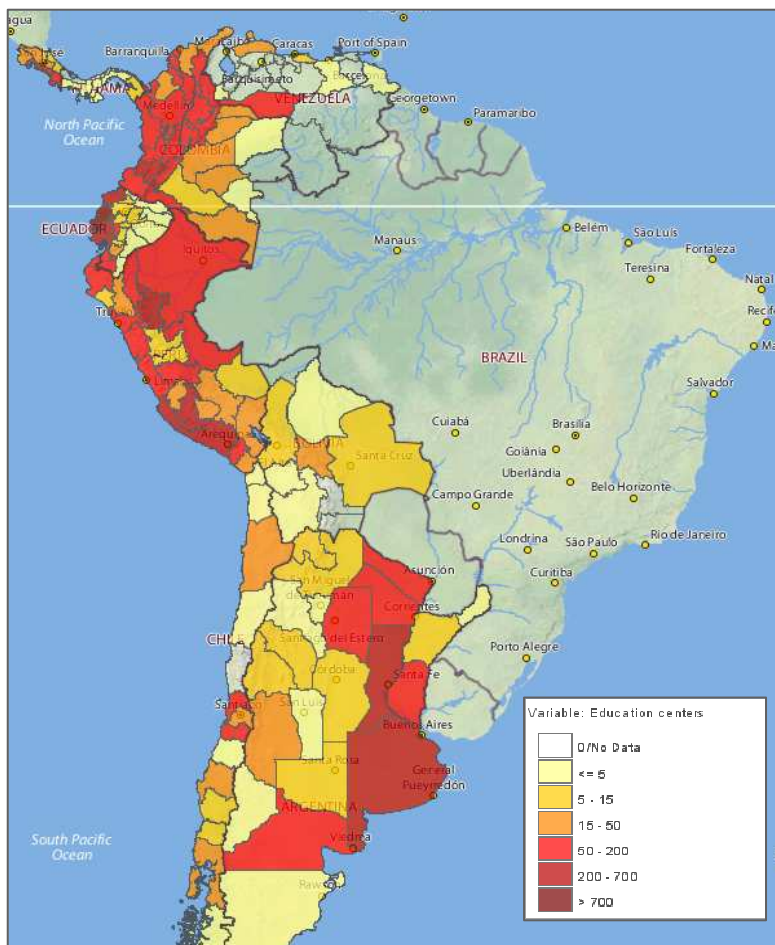
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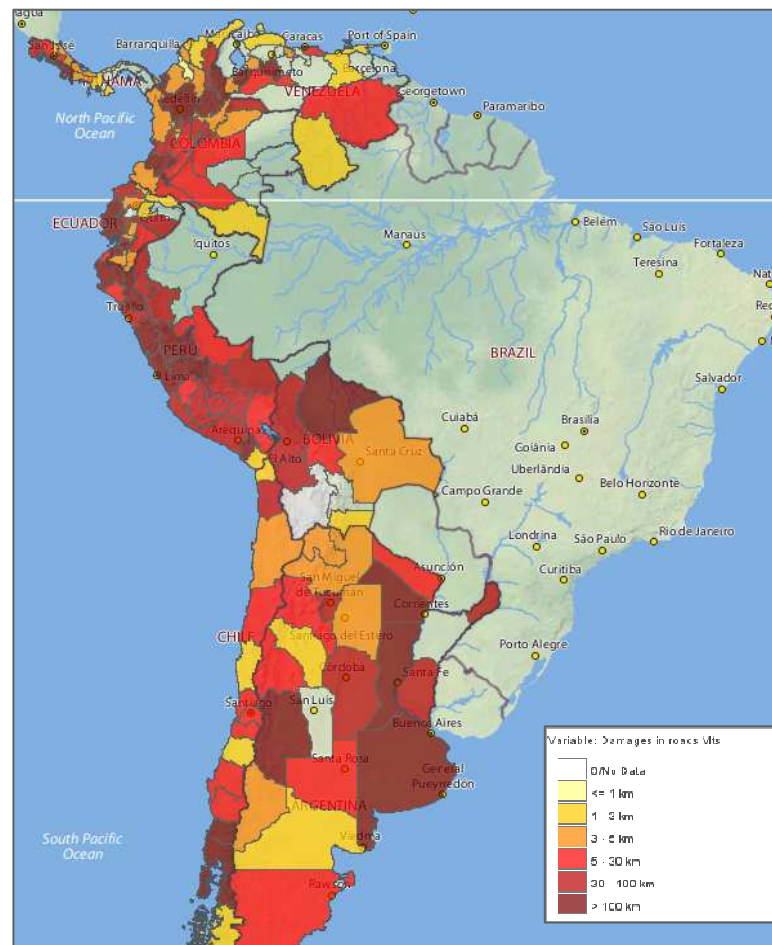
# Drought impacts in Mozambique (1990 – 2009)



# Damages absorbed by local and national governments



Number of education facilities damaged (1970 – 2009)



Kilometers of road damaged (1970 – 2009)

(Argentina, Bolivia, Chile, Colombia, Costa Rica, Ecuador, Panama, Peru, Venezuela)

# Temporal Analysis: distribution of losses over time

DesInventar on-line Query/Search - Windows Internet Explorer

http://desinventar/DesInventar/results.jsp

DesInventar | Home | Region | Login | Logout | Download | Help | About

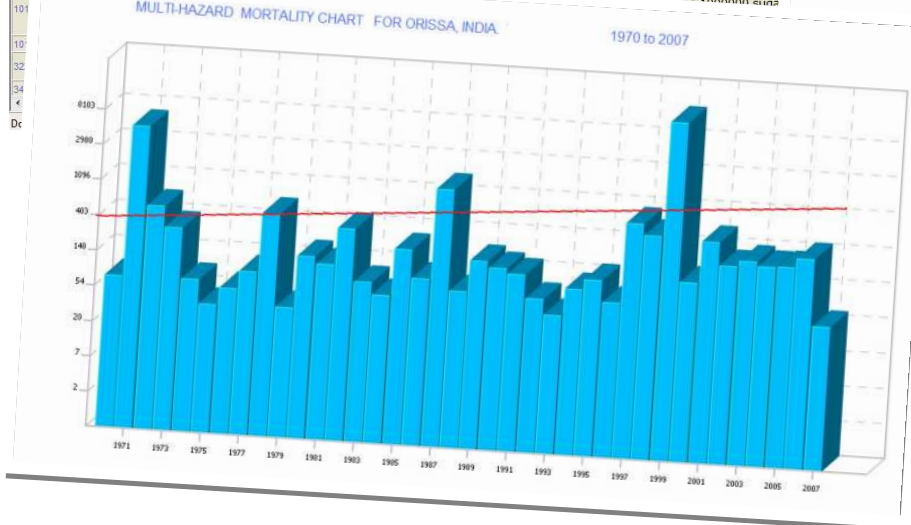
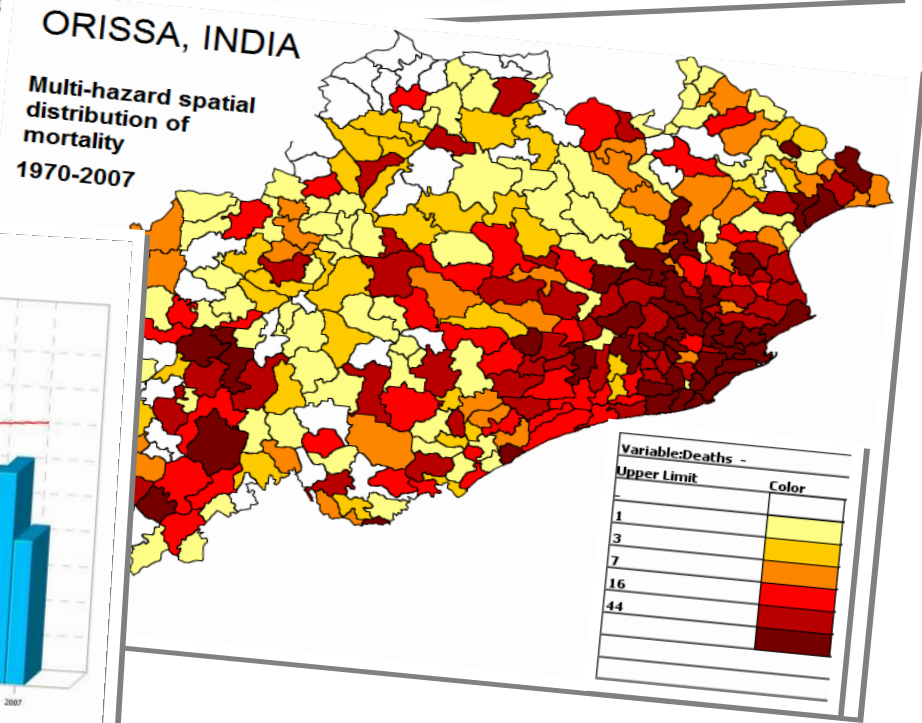
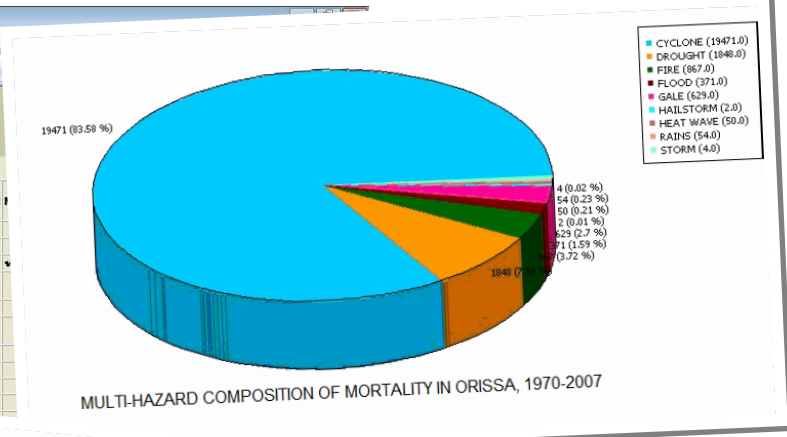
English | Español | العربية | Français | Bahasa | Português

Query | View data | View map | Charts | Statistics | Reports | Thematic | Crosstab

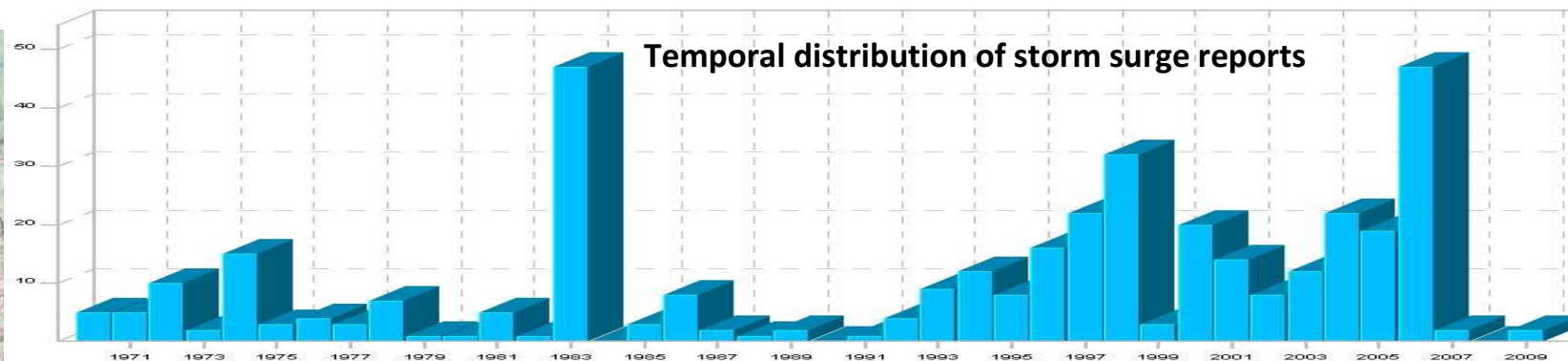
Region **Orissa** - [OR]

Data: Query Results

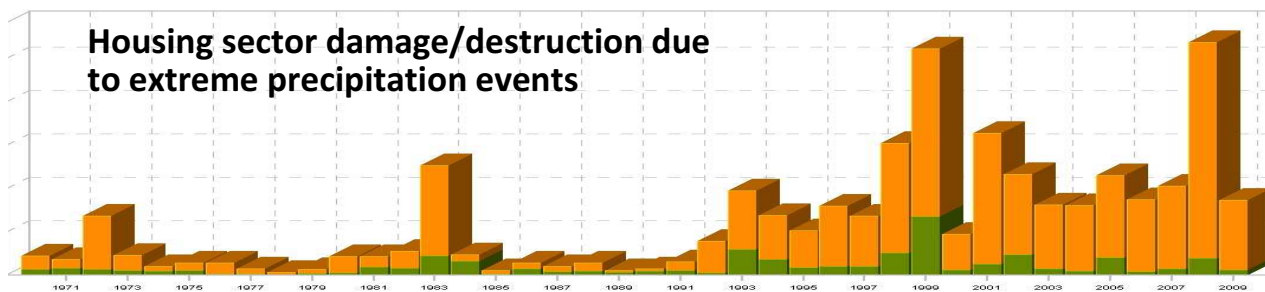
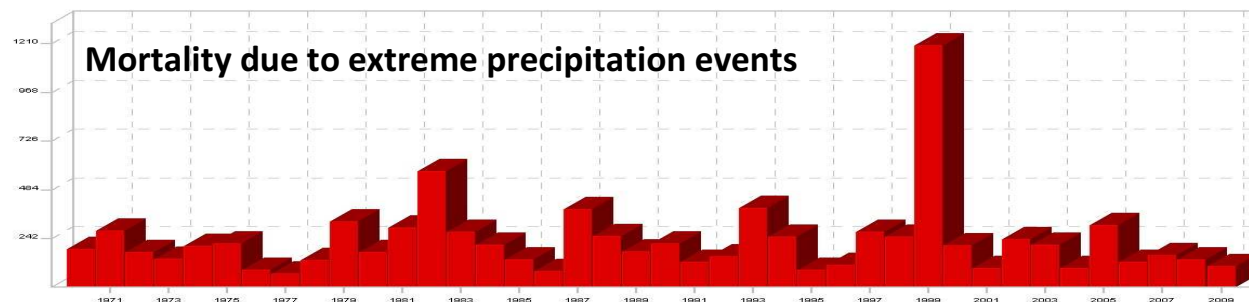
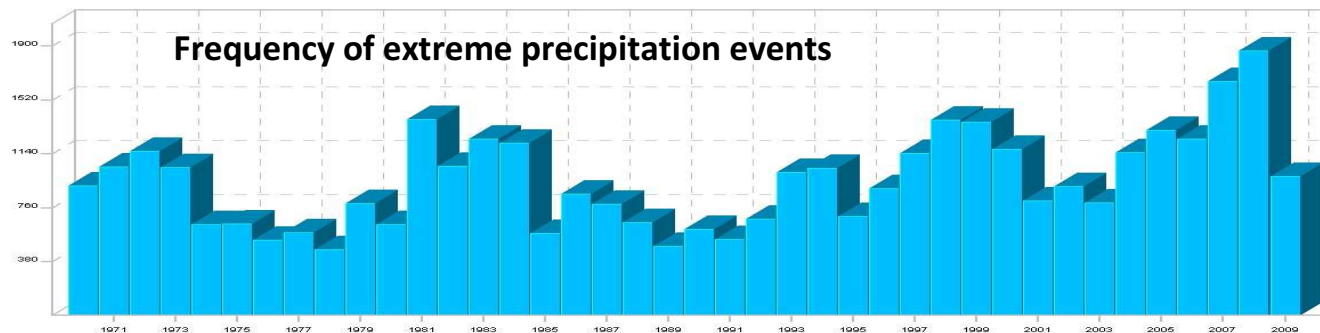
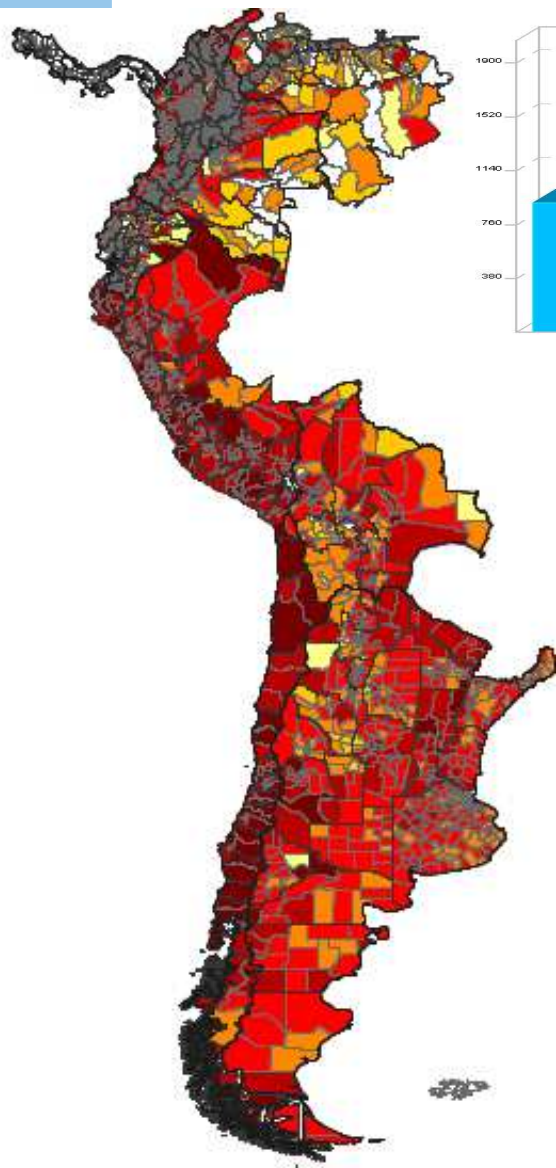
Serial (Click for details)	Event	State	District	Block	Date	Location	Comments	Deaths	Injured
62	CYCLONE	Orissa	Jajpur	Bari	1970/06/18	Bari panchayat		1	2
195	CYCLONE	Orissa	Balasore		1970/11/15			11	
10056	GALE	Orissa	Kendrapara	Kendrapara	1985/03/31	Chhoti Village	Many trees are fell on the road.		
10092	STRONG WIND	Orissa	Cuttack	Cuttack Sadar	1985/04/30	Cuttack Sadar			6
10099	STORM	Orissa	Jagatsingpur	Jagatsingpur	1985/04/29	Jagatsinghpur		2	
10100	GALE	Orissa	Jajpur	Jajpur	1985/04/29	Kaliapani, chirigunia Patana, Dhabahali		2	250
10103	STORM	Orissa	Bhadrak	Tihidi	1985/05/04	Nuananda		4	
10108	GALE	Orissa	Keonjhar	Jhumpura	1985/05/07	Naopani		1	
10109	GALE	Orissa	Keonjhar	Jhumpura	1985/05/07	Hatidori		1	
10110	GALE	Orissa	Keonjhar	Jhumpura	1985/05/07	Brahmanajharilo		1	
10113	STORM	Orissa	Jajpur	Jajpur	1985/05/11	Jajpur.			
10116	CYCLONE	Orissa	Sambalpur	Dhankauda	1985/05/11	Gosala, Atabira, Chiplima	67 villages affected in the above cyclone and hailstorm. 8287 houses destroyed and 6568 hectre foodgrain destroyed. 11kv and 33kv power lines affected in this area. Many people has injured due to the cyclone, & hailstorm.		
242	STORM	Orissa	Balasore	Nilagiri	1971/04/30	Tenda village, Nilgiri	Many houses were affected and many bird was died.		
10121	STORM	Orissa	Jajpur	Rasulpur	1985/05/15	Ismailpur	The above 2 people died when one coconut tree has fell down on them.		
10128	CYCLONE	Orissa	Koraput	Koraput	1985/05/18	Many areas.			
10129	GALE	Orissa	Keonjhar	Champua	1985/05/26	Ranipur, Naopani Hatidari, Brahmanajilla, Tipandi, Nahapada	Due to this Tornado many houses damag and many cattle also died.		
10130	STORM	Orissa	Jajpur	Berhampur	1985/05/28	Berhampur			



# Storm surges in Peru (1970 – 2009)



# Extreme weather events in S. America (1970 – 2009)





## Why using Disaster Losses Database “Disaster Inventories” by UNFCCC Parties:

1. Defining baselines
2. Assessing countries’ vulnerability (at national and local levels) to climate variability and change
3. Assessing effectiveness of adaptation measures (does CCA result in decline in climate related losses?)
4. Using multi-purpose, comprehensive tool for both disaster risk reduction and CCA actions. (effective way for informed decisions by policy makers)

## built *by* governments, *for* governments

1. UNISDR will facilitate a nationally-led process and nationally-owned/developed database – with international common tool, standards, and methodology “DesInventar”
2. DesInventar offers a better-informed risk analysis for CCA projects and input to national, regional and global assessments and policy development
3. UNISDR will facilitate through DRR National and Regional Platforms coherence and synergy on risk assessment and DRR actions, including synergy between CCA related policies and HFA implementation and reporting by countries.
4. UNISDR offers online knowledge platform (PreventionWeb.net) and robust information management system (Desinventar.net) for parties use and access on loss and damage data and risk profiling.

# *Thank you*

United Nations, secretariat of the  
International Strategy for Disaster Reduction (UNISDR)

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For additional information and resources, please visit:

[www.desinventar.net](http://www.desinventar.net)

[www.preventionweb.net](http://www.preventionweb.net)