

1st Asia–Pacific Water Summit

Priority Theme B: Water–Related Disaster Management

Convened by

International Center for Water Hazard and Risk
Management (ICHARM) under the auspices of UNESCO

Public Work Research Institute (PWRI)

Tsukuba, JAPAN

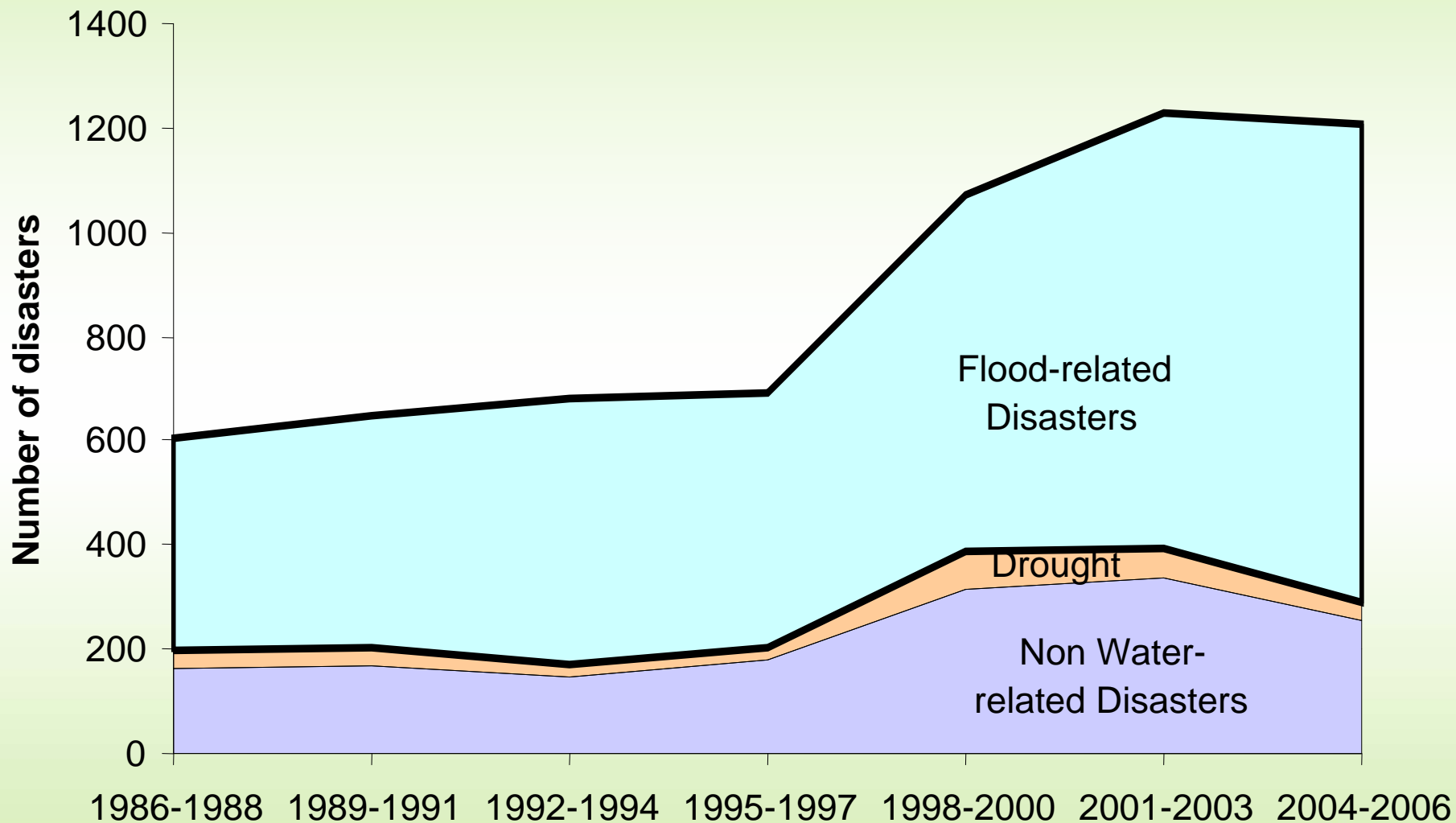


Time	
10:50 – 11:00	Dr. Kuniyoshi TAKEUCHI (Chair) Director of International Center for Water Hazard and Risk Management (ICHARM)
11:00 – 11:05	Mr. Junzo YAMAMOTO Parliamentary Secretary, Ministry of Land Infrastructure and Transport (MLIT), JAPAN
11:05 – 11:10	H.E. Prof. Saif-ud-din Soz Minister of Water Resource, INDIA
11:10 – 11:15	H.E Prof. HU Siyi Vice Minister of Water Resource, Peoples Republic of CHINA
11:15 – 11:25	Dr. Andras Szollosi-NAGY Assistant Deputy Director General, UNESCO
11:25 – 11:35	Mr. Avinash TYAGI Director, Hydrology and Water Resource Department World Meteorological Organization
11:35 – 11:45	Mr. Salvano BRICENO Director, UN/International Strategy for Disaster Reduction (ISDR)
11:45 – 11:55	Mr. Wouter Lincklaen ARRIENS Land Water Resource Specialist, Asian Development Bank (ADB)
11:55 – 12:05	Dr. Katumi MUSIAKE Professor, Fukushima University, JAPAN
12:05 – 12:15	Discussion
12:15 – 12:20	Conclusion of discussion and adoption of recommendations
12:20	Closure



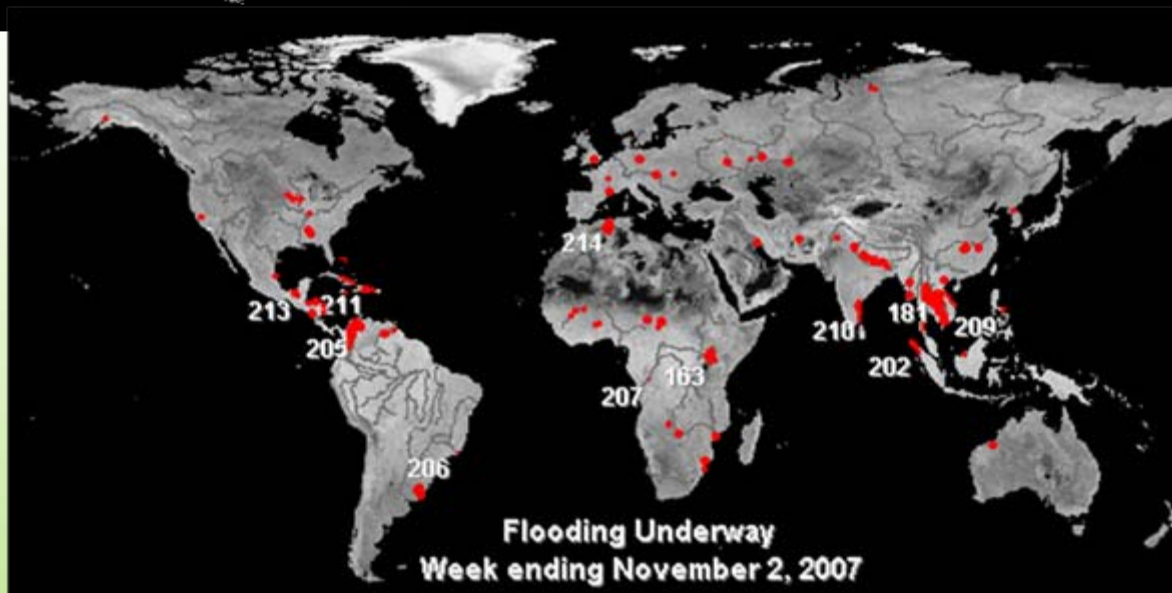
Global Natural Disaster Occurrence 1986-2006

Data source: CRED DM-DAT

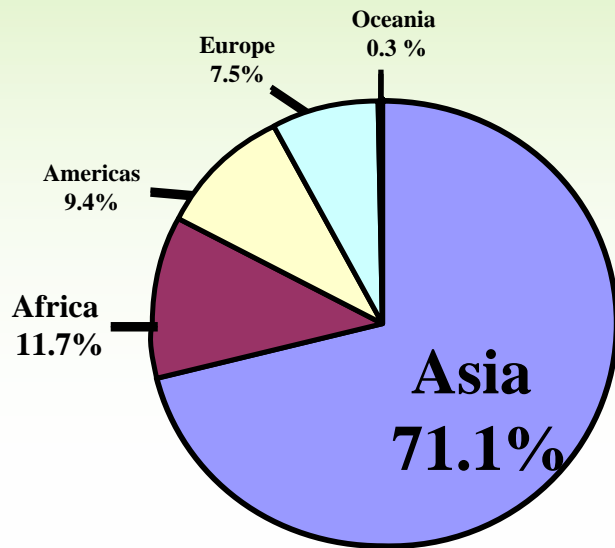


Location Map, Year 2007
Major floods reported by news services
and satellite data observation
Updated November 2, 2007
Base image from NASA/JPL

2007 - Global Flood Archive - Dartmouth Flood Observatory

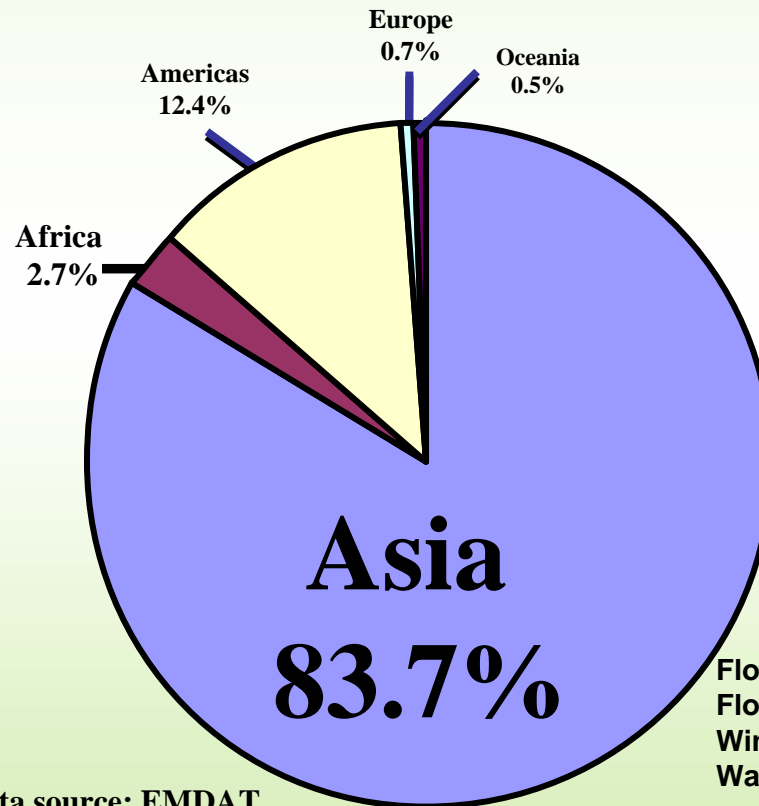


Global Total Fatalities of All the Natural Disaster from 1986 to 2006



Data source: EMDAT

Global Total Fatalities of Flood-related Disaster from 1986 to 2006

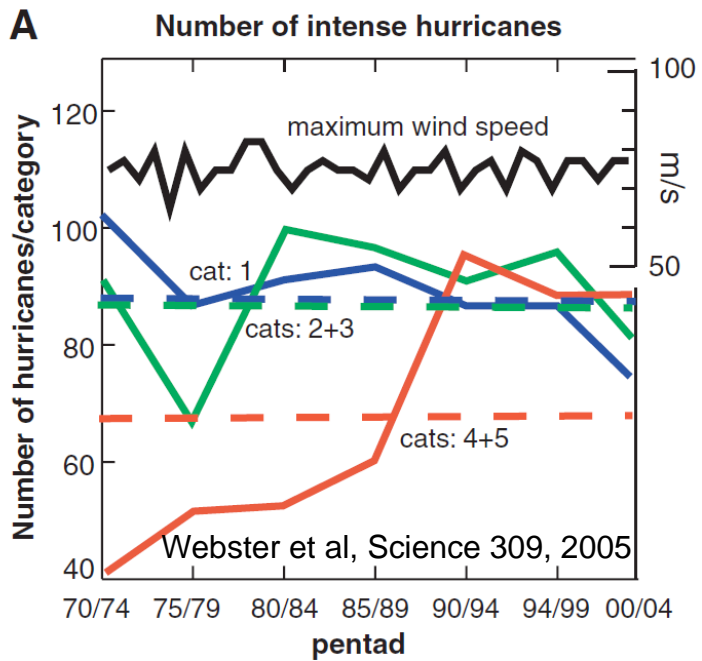
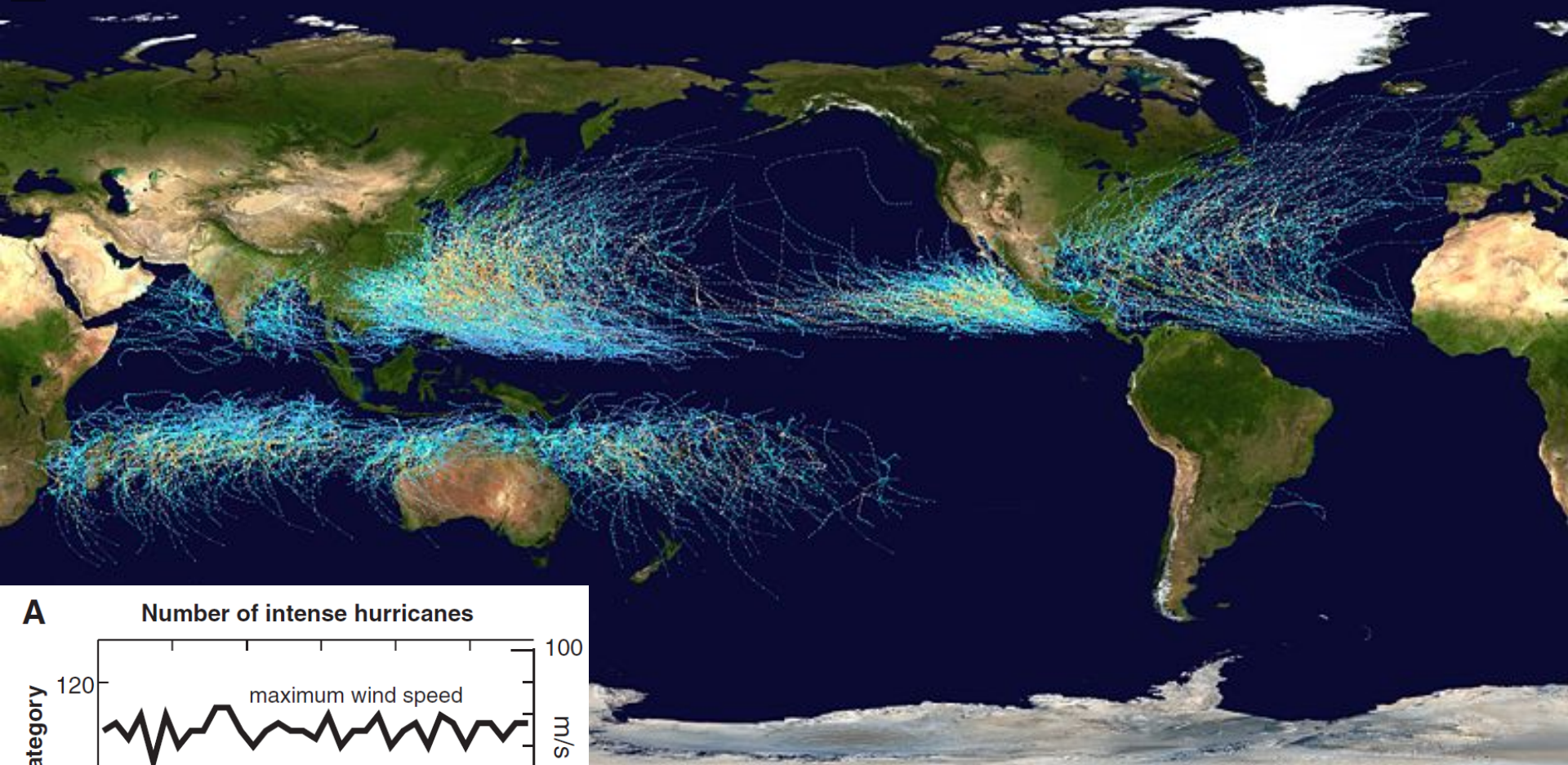


Data source: EMDAT

Flood-related disaster:
Flood, Slides
Windstorm and
Wave/surge

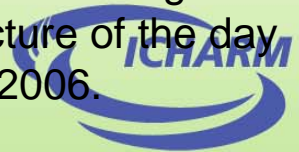


Flood victims seek shelter as they wait for relief
Pakistan July 2007 Source- Canadian Red Cross



The category 4+5 cyclones increased from 25 to 41% during the former to latter half of '70-'04 period in the NW Pacific.

Map of the cumulative tracks of all tropical cyclones during the 1985–2005 time period. http://en.wikipedia.org/wiki/Tropical_cyclone. This image was selected as picture of the day for October 3, 2006.



2007 China Flood,
Axis of Info



DFO Event # 2007-115 - Glide # FL-2007-000096-IND - Bihar - Rapid Response Inundation Map 1

MODIS flood inundation limit

August 22, 2007:

August 4, 2007:

August 3, 2007:



Maximum Observed Inundation Limit 2000 - 2005:

SWBD reference water:

DCW Rivers: — Urban areas:

MODIS cloud free area August 22, 2007:



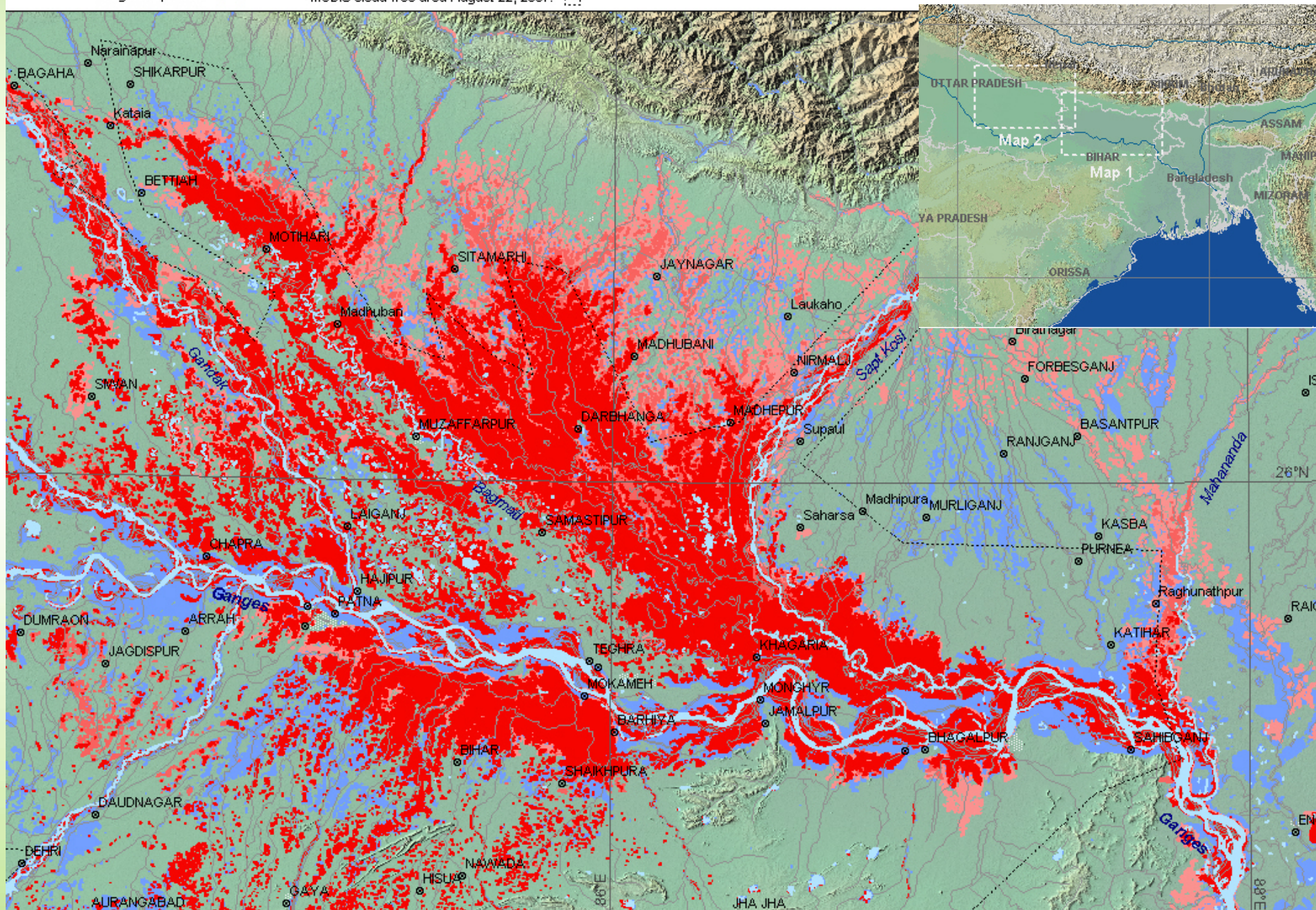
Universal Transverse Mercator Zone 45 North - WGS 84

Graticule: 2 degrees - Shaded relief from SRTM data

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Dartmouth College - Hanover NH, 03755 USA

Elaine K Anderson - G. R. Brakenridge







Destruction by Cyclone Sidr in Chaitatoli, Bangladesh on November 20th, 2007
Source: AFP/Jewel SAMAD



Destruction by Cyclone Sidr in Chaitatoli, Bangladesh on November 21st, 2007
Source: AFP/Farjana KHAN GODHULY



Destruction by Cyclone Sidr in Chaitatoli, Bangladesh on November 20th, 2007
Source: AFP/Jewel SAMAD



Destruction by Cyclone Sidr in Noltona, Bangladesh on November 21st, 2007
Source: AFP/ AFP/Farjana KHAN GODHULY

The Death toll of cyclone Sidr reported by Independent (UK) on 29th November is 2575

Key Messages and Recommendations

- **Integrate water-related Disaster Risk Reduction (DRR) into national development plans, recognizing adaptation to increasing risks from climate change as a “highest” priority issue**

(Para. 45-48 of Policy Brief paper)

- **Recognize the importance of IWRM for water-related DRR and the need to strengthen comprehensive structural and non-structural measures**
- **Establish national and local goals/targets for water-related DRR, taking the impacts of climate change into consideration**
- **Develop preparedness indices for water-related DRR for the Asia-Pacific region**
- **Develop water-related disaster warning systems and human capacities**
- **Create a Regional Knowledge Hub for water-related DRR**



Key Messages and Recommendations

- Integrate water-related Disaster Risk Reduction (DRR) into national development plans, recognizing adaptation to increasing risks from climate change as a “highest” priority issue.
- **Recognize the importance of IWRM for water-related DRR and the need to strengthen comprehensive structural and non-structural measures** (Para. 49-50 of PB paper)
 - Establish national and local goals/targets for water-related DRR, taking the impacts of climate change into consideration
 - Develop preparedness indices for water-related DRR for the Asia-Pacific region
 - Develop water-related disaster warning systems and human capacities
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- **Integrate water-related Disaster Risk Reduction (DRR) into national development plans, recognizing adaptation to increasing risks from climate change as a “highest” priority issue.**
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- **Establish national and local goals/targets for water-related DRR, taking the impacts of climate change into consideration**
(Para. 51-52 of PB paper)
- **Develop preparedness indices for water-related DRR for the Asia-Pacific region**
- **Develop water-related disaster warning systems and human capacities**
- **Create a Regional Knowledge Hub for water-related DRR**



Key Messages and Recommendations

- **Integrate water-related Disaster Risk Reduction (DRR) into national development plans, recognizing adaptation to increasing risks from climate change as a “highest” priority issue.**
- **Recognize the importance of IWRM for water-related DRR and the need to strengthen comprehensive structural and non-structural measures**
- **Establish national and local goals/targets for water-related DRR, taking the impacts of climate change into consideration**

Develop preparedness indices for water-related DRR for the Asia-Pacific region (Para. 53-55 of PB paper)

- **Develop water-related disaster warning systems and human capacities**
- **Create a knowledge platform (knowledge hub) for water-related DRR**



Key Messages and Recommendations

- **Integrate water-related Disaster Risk Reduction (DRR) into national development plans, recognizing adaptation to increasing risks from climate change as a “highest” priority issue.**
- **Recognize the importance of IWRM for water-related DRR and the need to strengthen comprehensive structural and non-structural measures**
- **Establish national and local goals/targets for water-related DRR, taking the impacts of climate change into consideration**
- **Develop preparedness indices for water-related DRR for the Asia-Pacific region**
- **Develop water-related disaster warning systems and human capacities** (Para. 56-57 of PB paper)
- **Create a Regional Knowledge Hub for water-related DRR**



Key Messages and Recommendations

- **Integrate water-related Disaster Risk Reduction (DRR) into national development plans, recognizing adaptation to increasing risks from climate change as a “highest” priority issue.**
- **Recognize the importance of IWRM for water-related DRR and the need to strengthen comprehensive structural and non-structural measures**
- **Establish national and local goals/targets for water-related DRR, taking the impacts of climate change into consideration**
- **Develop preparedness indices for water-related DRR for the Asia-Pacific region**
- **Develop water-related disaster warning systems and human capacities**
- **Create a Regional Knowledge Hub for water-related DRR**
**(Para. 82 and in the “List of Expected Concrete Initiatives”
of PB paper)**



**Thank you very much for
your
kind attention**

