International Flood Initiative/Program: Time for Action

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January, 2004: Heavy rain in Indonesia

79,400 km² affected  148 dead  350,000 displaced
January – March, 2004: Heavy rain in Brazil

2,019,000 km² affected   161 dead   230,000 displaced
January – February, 2004: Heavy rain in Angola, Botswana, Namibia and Zambia

596,100 km² affected    10 dead    40,000 displaced
March, 2004: Tropical cyclone in Madagascar

44,230 km² affected  198 dead  216,000 displaced
April – June, 2004: Heavy rain in Mexico

18,400 km² affected  37 dead  3,500 displaced
April – May, 2004: Heavy rain in Kenya

268,300 km² affected  50 dead  15,000 displaced
April – May, 2004: Heavy rain in India and Bangladesh

29,070 km² affected  12 dead  50,000 displaced
May – June, 2004: Heavy rain in Dominican Republic, Haiti and Puerto Rico

8,900 km² affected  3,300 dead  13,000 displaced

BBC NEWS UK EDITION

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Haiti flood deaths may top 2,000

Flooding unleashed in Haiti by tropical storm Jeanne is feared to have killed more than 2,000 people, the mayor of a badly-hit city has said.

Calixte Valentin, mayor of Gonaives, said bodies were still being found, 10 days after the storm.
June – July, 2004: Heavy rain in China

92,250 km² affected  27 dead  168,000 displaced
June – July, 2004: Monsoon rain in India, Bangladesh and Burma

1,163,000 km² affected  3,000 dead  40,000,000 displaced
June – July, 2004: Heavy rain in Nicaragua

29,960 km² affected  25 dead  18,000 displaced
June – July, 2004: Tropical cyclone in Philippines, Taiwan and North Korea

84,820 km² affected  54 dead  385,000 displaced
July, 2004: Heavy rain in Chile

4,600 km² affected  3 dead  9,000 displaced
July, 2004: Brief torrential rain in Ontario, Canada

510 km² affected  250 displaced  $40,000,000 in damages
July – August, 2004: Monsoon rain in Nepal and Bhutan

65,200 km² affected  185 dead  100,000 displaced
July, 2004: Monsoon rain in North Korea and South Korea

102,900 km² affected  34 dead  160,000 displaced
July, 2004 : Heavy rain in New Zealand

6,960 km² affected  2 dead  2,850 displaced
August, 2004: Monsoon rain in India and Pakistan

638,400 km² affected  210 dead  100,000 displaced
August – October, 2004: Monsoon rain in Thailand

154,400 km$^2$ affected   11 dead   60,000 displaced
August – October, 2004: Monsoon rain in Vietnam and Cambodia

47,460 km² affected  34 dead  30,000 displaced
October – November, 2004: Heavy rain in Colombia

159,600 km² affected  19 dead  187,900 displaced
October, 2004: Tropical cyclone in Japan

32,210 km² affected  83 dead  42,000 displaced
Summary of 2004

<table>
<thead>
<tr>
<th>Began</th>
<th>Ended</th>
<th>Country</th>
<th>Main cause</th>
<th>Affected Region (km²)</th>
<th>Dead</th>
<th>Displaced</th>
<th>Damage (US $)</th>
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<tbody>
<tr>
<td>01/10/04</td>
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## Summary of 2004 – cont.

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<th>Date 1</th>
<th>Date 2</th>
<th>Location</th>
<th>Type</th>
<th>Casualties</th>
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Summary of 2004 – cont.

<table>
<thead>
<tr>
<th>Date</th>
<th>Region</th>
<th>Type</th>
<th>Cost</th>
<th>Casualties</th>
<th>Damage</th>
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<td>Heavy rain</td>
<td>12,920</td>
<td>200</td>
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</tbody>
</table>

**11,699 dead**

**45 million displaced**

**US $ 5.3 Billion in damages**
On average

- 25,000 lives annually
- $60 billion
- plus damage caused to cultural and natural resources
Presentation outline

- Challenges
- Opportunities - IFI/P
- Preparatory process
- Time for action
Challenges

- 2002 World Summit on Sustainable Development (Johannesburg)
- 2003 3rd World Water Forum (Kyoto)

- Necessity to improve risk management measures, technologies and capacity building relevant to water-related disasters
Challenges

- How to reduce the loss of life and property damage and in the same time obtain the social, environmental and economic benefits from the floodplains.
  - Urban areas
  - Rural areas
Challenges

- How to develop area-specific adaptation strategies
  - Living with water-related disasters
  - Capacity building
  - Local knowledge
  - Participation of all stakeholders
Challenges

- How to improve our knowledge base
  - Prediction of hazardous events
  - Assessment of risk and vulnerability
  - Integrated use of structural and non-structural protection measures
  - Enhancement of preparedness
  - Evaluation of impacts
  - Knowledge sharing
  - Climate change impacts
Challenges

- How to take advantage of the new technologies
  - Monitoring hazardous events
  - Data sharing
Challenges

- How to implement interdisciplinary approach
  - Disciplinary thinking
  - Educational barriers
  - Lack of funding
Challenges

- How to find appropriate financial mechanisms for those in need
  - National policy
  - International assistance
Systems view of the problem

- Population policy
- Economic policy
- Energy policy
- Water policy
- Land/food policy

- (+) Economic policy
- (-) Population policy
- (+) Energy policy
- (+) Water policy
- (+) Land/food policy

- People
- Property to damage
- Natural disasters
- Dead total
- Change of physical environment
- Climate

- Total cost
- Material damage
Opportunities – IFI/P

Mission

The International Flood Initiative/Programme promotes an integrated approach to flood risk management in order to reduce fatalities, property losses, environmental effects and other hardships that result from floods and at the same time consider the long-term benefits from floods and the use of flood plains.
IFI/P

- Guiding Principles
  - Living with floods
  - Equity
  - Empowered participants
  - Interdisciplinarity
  - Trans-sectorality
  - International and regional cooperation
IFI/P

- Strategic Activities
  - Research
  - Training
  - Information networking
  - People networking for good governance
  - Technical assistance
IFI/P

- Focal areas
  - People-centered early warning and emergency management
  - Flood risk assessment
  - Vulnerability
  - Governance and participation
  - Capacity building and technical assistance
  - Education
IFI/P – Time for action

**Schedule**

- 1\textsuperscript{st} preparatory meeting – Tsukuba, Japan (June 2004)
- 2\textsuperscript{nd} preparatory meeting – London, Canada (December 2004)
- WCDR, Kobe (January 2005) - launch
- Implementation (2006)
  - The planned International Centre for Water Hazard and Risk Management (CHARM) under the auspices of UNESCO - hosted by the Public Works Research Institute (PWRI) in Tsukuba, Japan
Instead of conclusion