

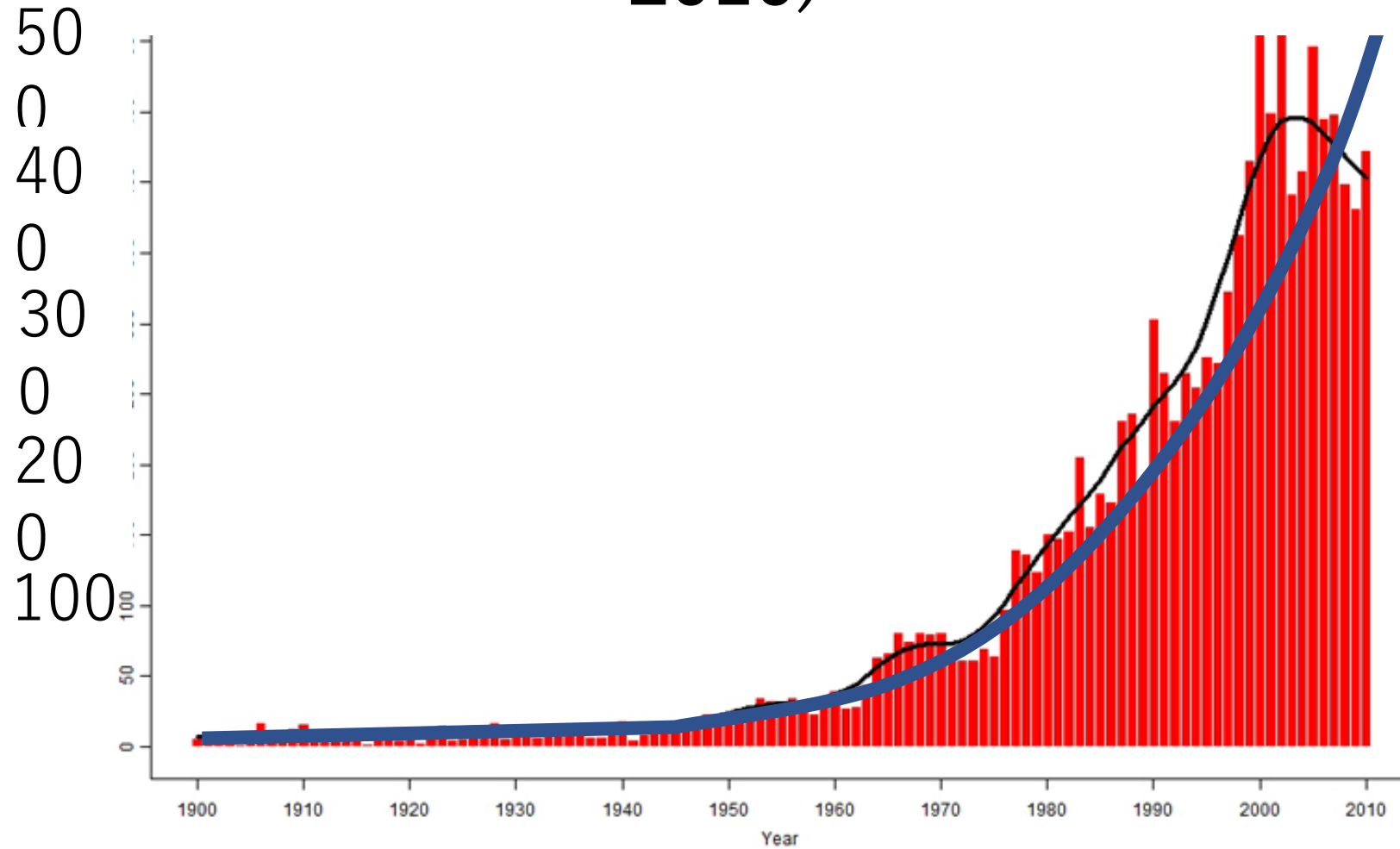


High-level Experts and Leaders Panel on Water and Disasters (HELP) in partnership with UNCRD

**Kenzo Hiroki, Professor, National Graduate Institute for Policy Studies (GRIPS), and
Coordinator of HELP**

Global Water and Disasters at a glance

Number of reported natural disasters(1900-2010)

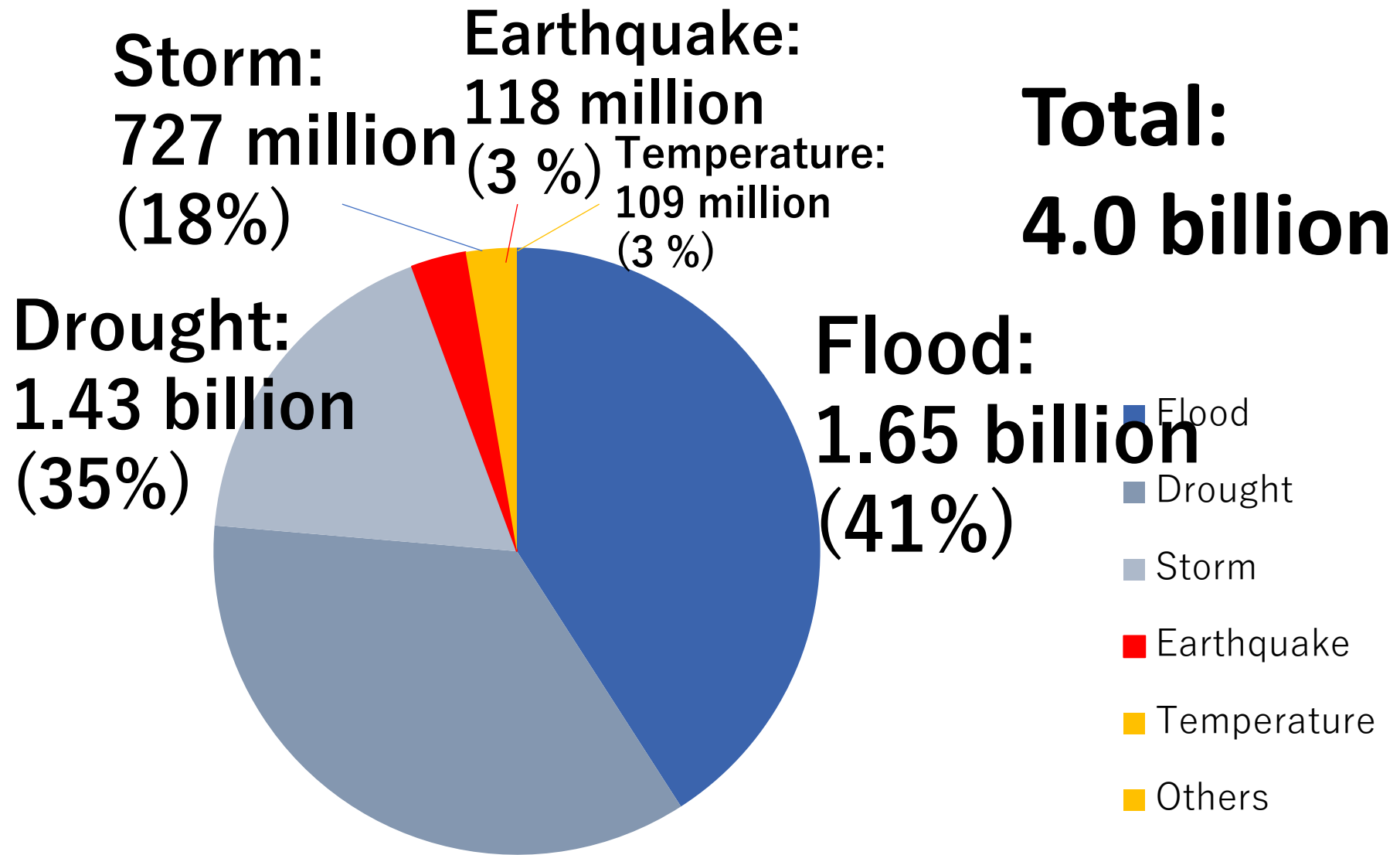


Year

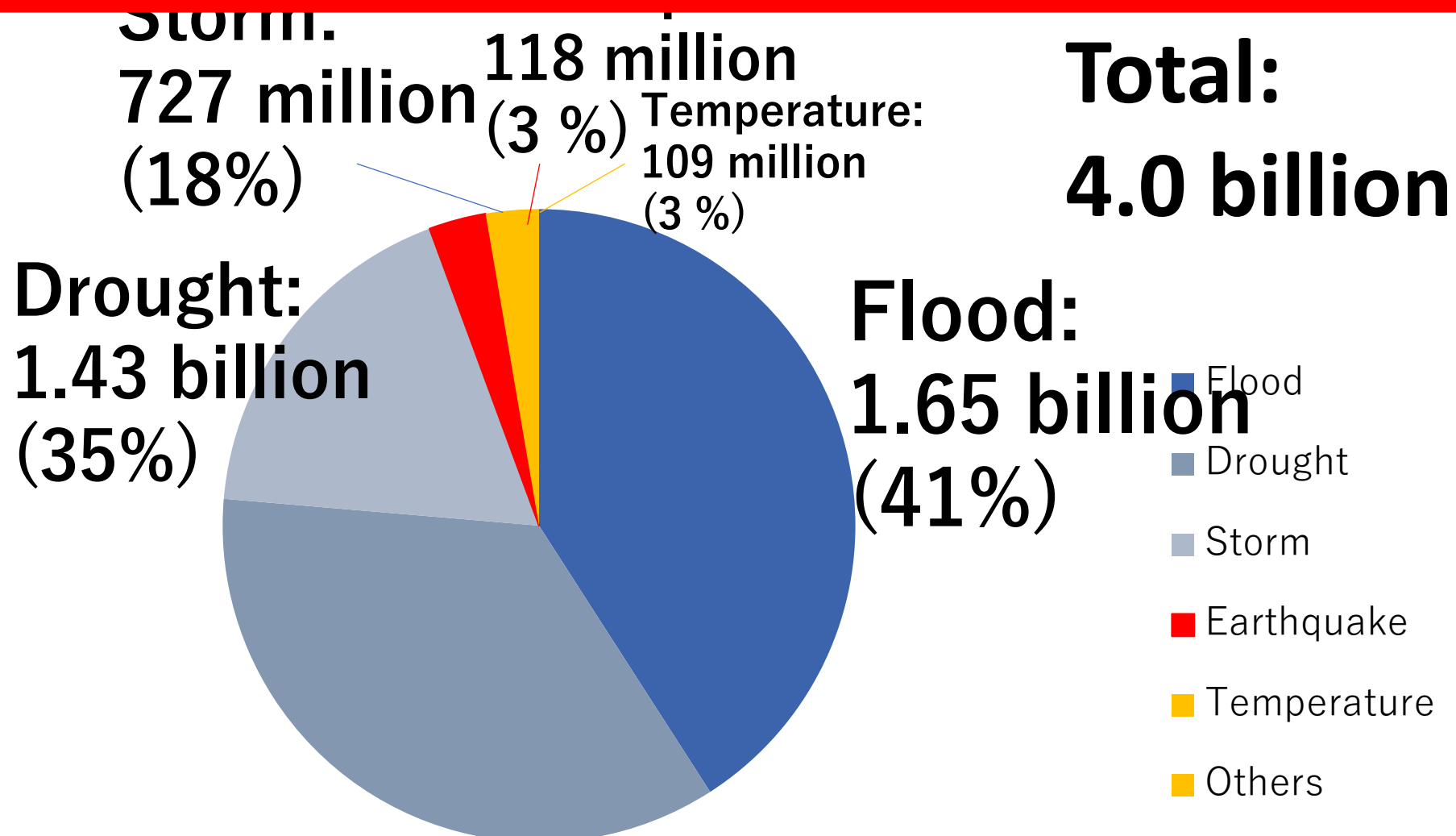
EM-DAT: The OFDA/CRED International Disaster Database - www.emdat.be - Université Catholique de Louvain, Brussels - Belgium

Source: ISDR "EM-DAT"

Number of people affected by disasters (2000-2019)



94% of disasters are water-related disasters



**“Water and Disasters” is strongly
linked to the poverty issue**

Eruption of Hunga Ha'apai Submarine Volcano and Tsunami on January 16th, 2022

AOI 1- HUNGA TONGA - HUNGA HA'APAI VOLCANO

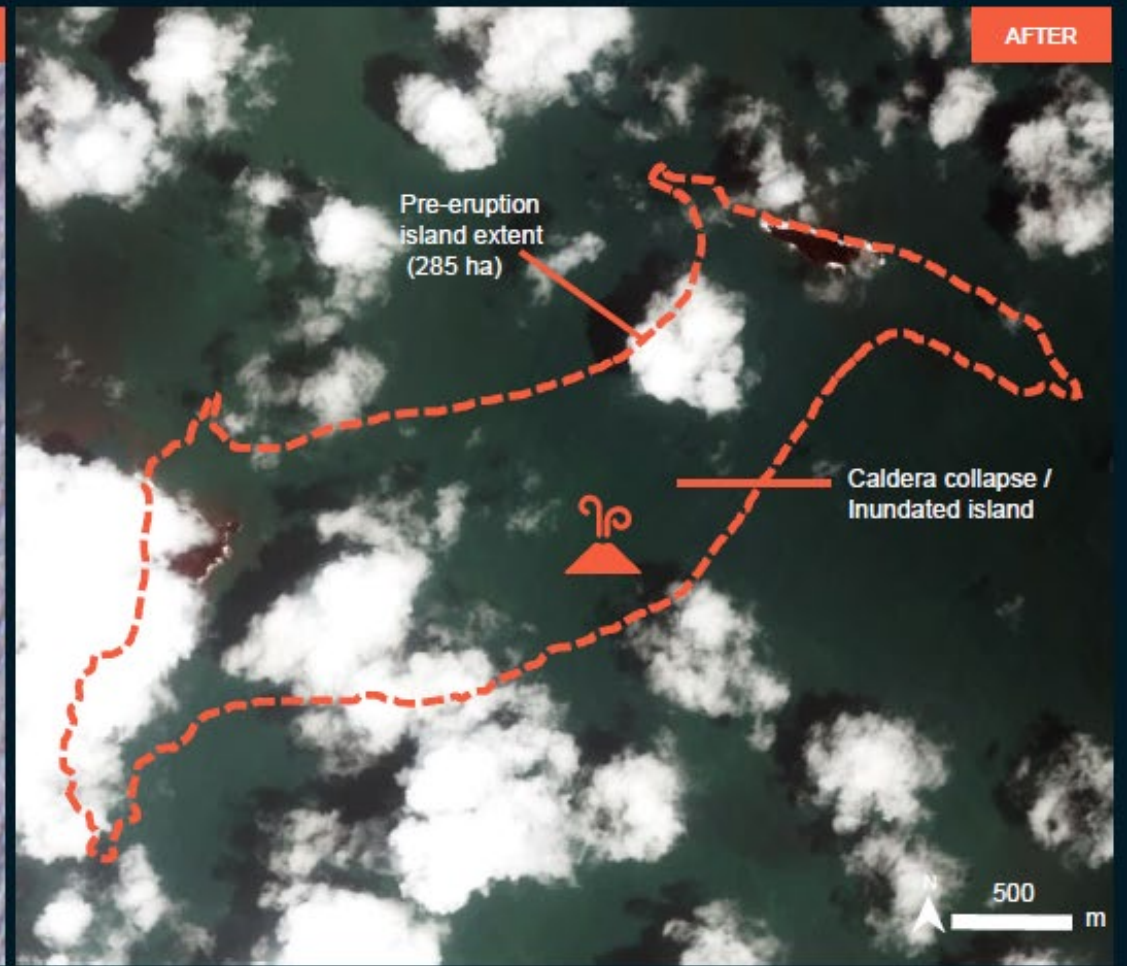
Image center:
175°23'26.689"W
20°32'39.82"S



Destroyed area around the volcano / Collapse of the caldera



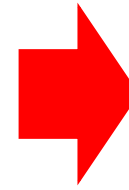
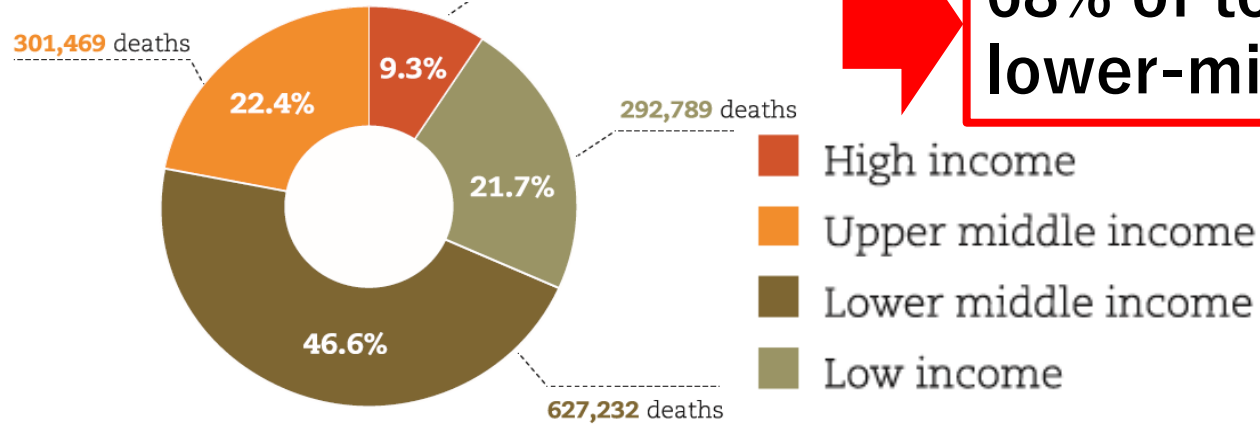
Sentinel-2 / 8 Dec 2021



Pléiades / 16 Jan 2022 (21:53 UTC)

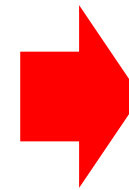
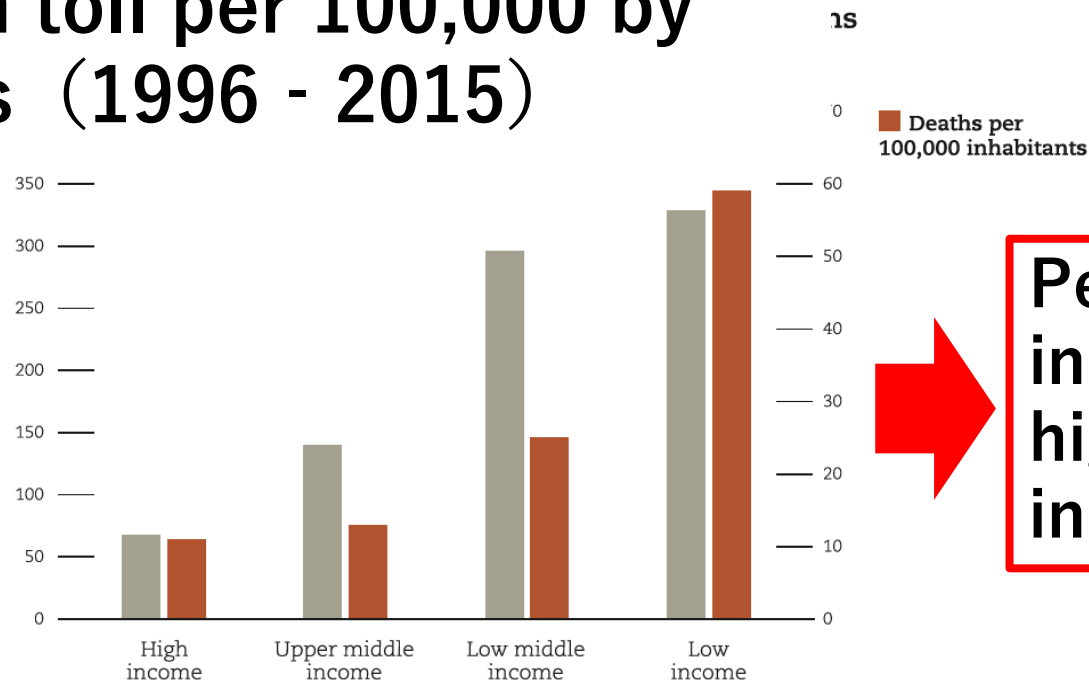
Disaster and poverty

Disaster death toll by income groups (1996 - 2015)



68% of total death toll is by low or lower-middle income groups

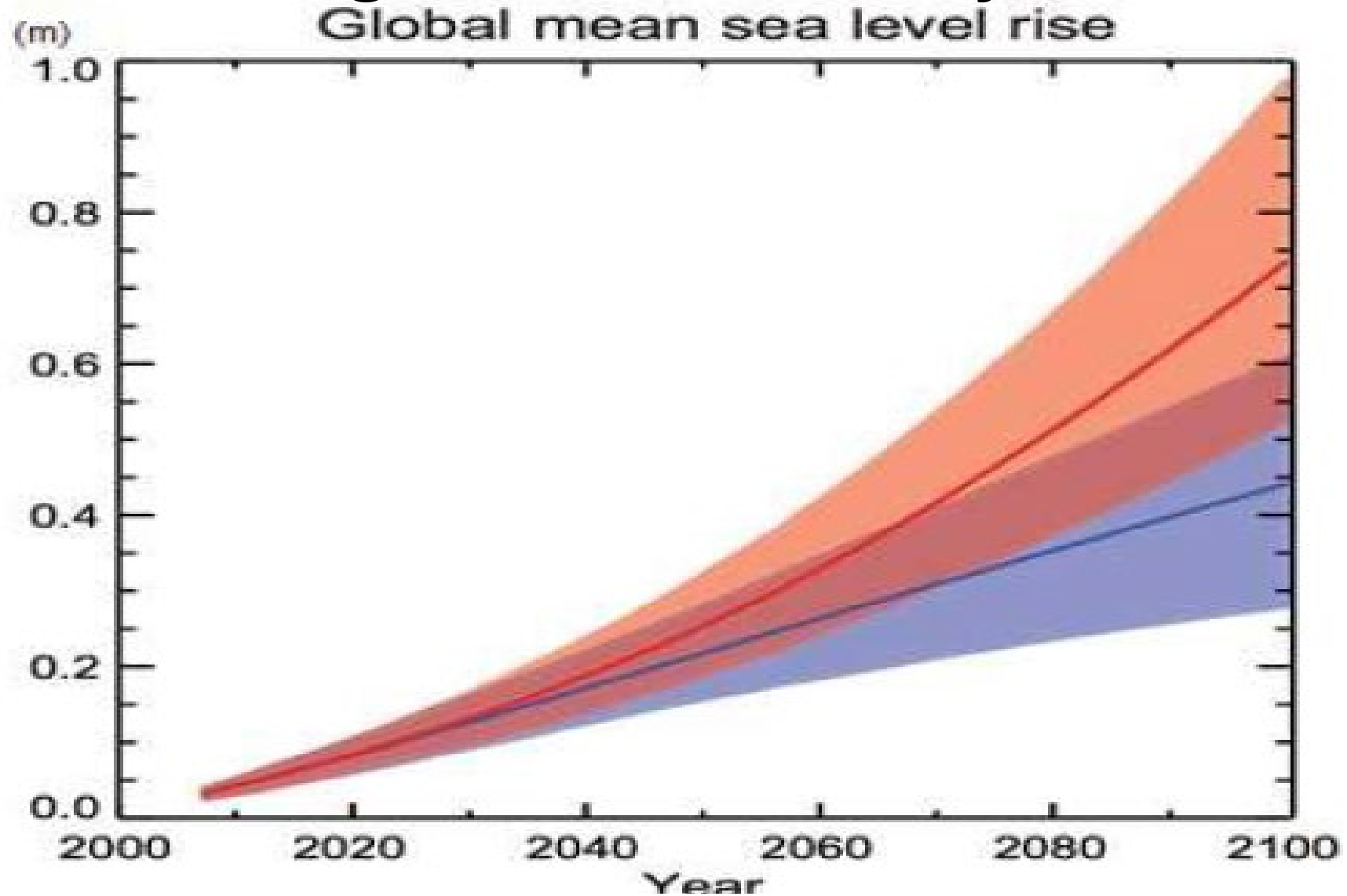
Disaster death toll per 100,000 by income groups (1996 - 2015)



Per-capita death by the low-income group is 6 times higher than that of the high-income group

Water-related Disasters and Climate Change

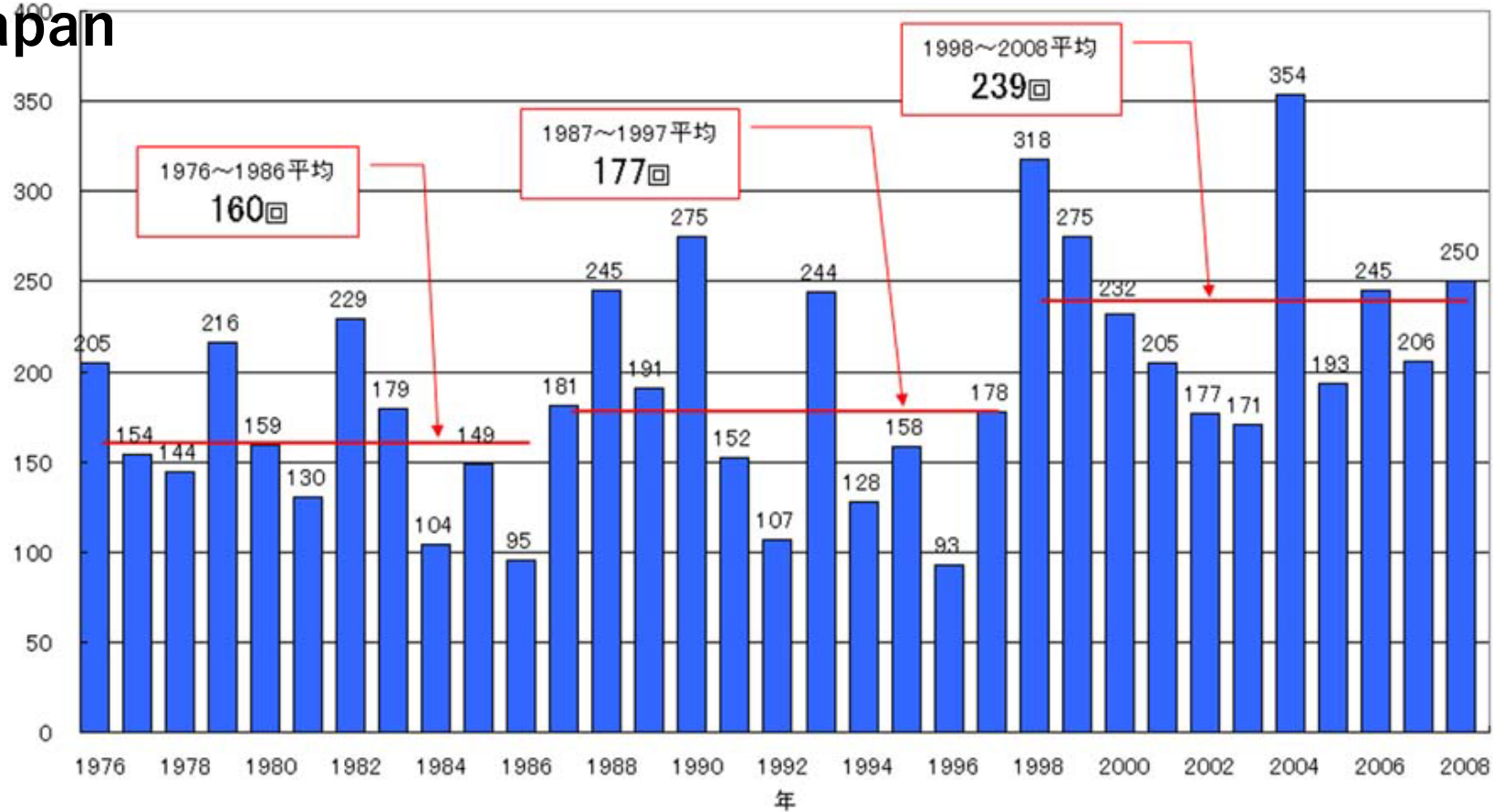
Projection of sea level rise by Climate Change for the next 100 years



Projection of global mean sea level rise (IPCC, 2014)

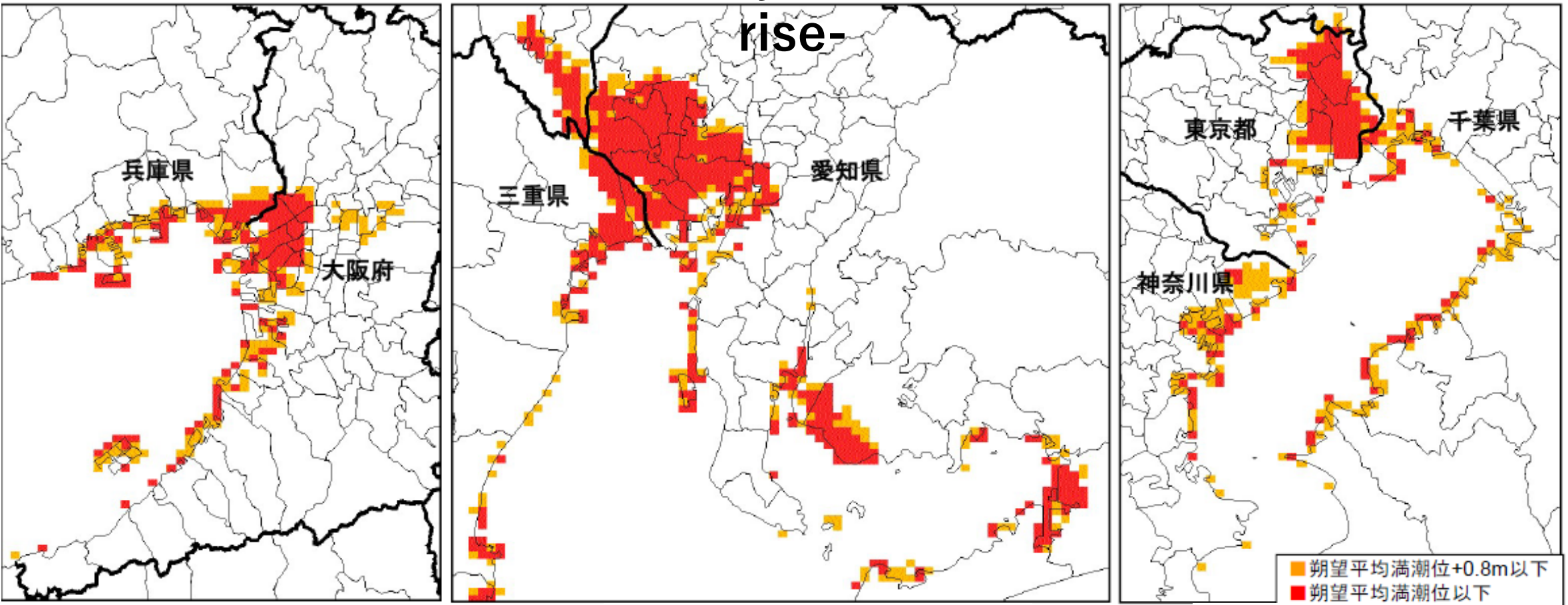
Increasing extreme events

Trends in Frequency of heavy rainfall (50 mm/hour or more) in Japan



Source: report of Japan Meteorological Agency

Land areas under sea level in major cities– before and after sea level



Osaka Bay

Nagoya (Ise) Bay

Tokyo Bay

	Present	After Sea Level Rise	Rate
Area	500 km ²	780 km ²	160%
Population	3.1 million	4.4 million	140%

High-level Experts and Leaders Panel on Water and Disasters (HELP)

Outline of High-level Experts and Leaders Panel on Water and Disasters (HELP)

Objectives:

- ✓ Raise awareness and promote concrete actions to address the issues on water and disasters

Global position:

- ✓ International Panel established by UN Secretary-General's Advisory Board on Water and Sanitation (UNSGAB) in 2007



Dr. Han Seung-soo
Chair of HELP

Chair: Dr. Han Seung-soo, Former Prime Minister of Republic of Korea

Members (20):

- ✓ Ministers of Namibia (AMCOW President), Indonesia, Netherlands, Commissioner of European Union ; VM of Japan, and Chief of USACE, U.S.A.;
- ✓ Heads of International Orgs of WMO, UNESCO, UNISDR, WB, ADB, KOICA, JICA, ESCAP, and OECD,
- ✓ Heads of Civil Society: GWP, WWC, NARBO, PSI, and BIT

Advisors (10)

- ✓ ICHARM, Sichuan U, Deltares, Zurich Insurance, GWP, JICA, KOICA, JWA, Myanmar, Germany, and the Netherlands,

Secretariat: GRIPS in collaboration with UNCRD

Members of HELP

Chair

Dr. Han Seung-soo

Former Prime Minister of Korea

Vice Chairs

Dr. Basuki Hadimuljono

Minister of Public Works and Housing, Indonesia

Mr. Mark Harbers

Minister of Infrastructure and the Environment, the Netherlands

Members

Hon. Carl Hermann Gustav Schlettwein

President of AMCOW, Minister of Agriculture, Water and Land Reform, Namibia

Mr. Janez Lenarčič

EU Commissioner for Crisis Management

Mr. Mikiya Yoshioka

Vice-Minister for Engineering Affairs, MLIT, Japan

LGT Mr. Scott A. Spellmon

Chief of Engineers, US Army Corps of Engineers

Mr. Petri Taalas

Secretary General, WMO

Ms. Audrey Azoulay

Director General, UNESCO

Ms. Armida Salsiah Alisjahbana

Executive Secretary, UNESCAP

Dr. Mami Mizutori

SRSG, UNDRR

Mr. Bambang Susantono

Vice President, Asian Development Bank

Ms. Jennifer Sara

Global Director, Water Global Practice, World Bank

Mr. Marcos Bonturi

Director for Public Governance and Territorial Development, OECD

Ms. Rosa Pavanelli

General Secretary, Public Services International

Mr. Loic Fauchon

President, World Water Council

Dr. Mr. Imam Santoso

Chairperson, NARBO

Mr. Shinichi Kitaoka

President, JICA, Japan

Hyuk-Sang Sohn

President of KOICA, Korea

Dr. Kuntoro Mangkusubroto

Former Head of President's Delivery Unit, Indonesia

Dr. Subin Pinkayan

Former Minister of Foreign Affairs, Thailand

HELP-UNCRD Partnership

The partnership agreement signed in May 2019

Background of the Partnership

- ✓ **Water and Disaster is a must in addressing regional development and vice versa**
- ✓ **HELP and UNCRD have common objectives of achieving SDGs**
- ✓ **HELP Secretariat and UNCRD have global mission and located in Japan**
- ✓ **HELP and UNCRD have been operating under umbrella of UNDESA**

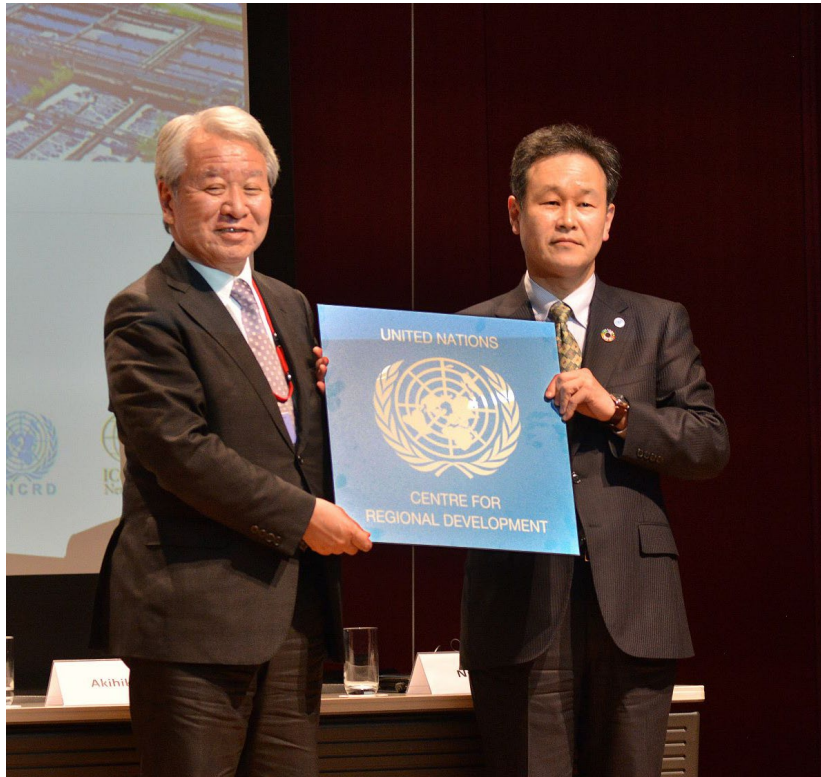
The Partnership Agreement in May 2019

- **HELP/GRIPS to host UNCRD Tokyo Satellite Office in GRIPS, Tokyo**
- **HELP/GRIPS to support activities of UNCRD**
- **UNCRD to support activities of HELP**
- **HELP and UNCRD to plan and implement joint initiatives**

Signing Partnership Agreement between HELP/GRIPS and UNCRD/DESA in International Symposium on Water and Culture

Symposium Organizers: HELP/GRIPS, UNCRD/DESA, ICOMOS

- **Hosts: Dr. Han Seung-soo, Chair of HELP, Mr. Akihiko Tanaka, President of GRIPS and Mr. Kazushige Endo, Director of UNCRD**
- **Signing Ceremony between GRIPS and DESA for hosting UNCRD Tokyo Satellite Office**
- **Message by Mr. Lie Zhenmin, UN-USG and Head of DESA**
- **Panel-discussion titled “Learning from Water Heritage to Innovate Regional Development”**



Actions of HELP/UNCRD since the Agreement

- 1. Advocating for importance of addressing the issues on water and disasters**
- 2. Promoting global, country and field actions to address issues of water and disasters**
- 3. Sharing lessons and good practices and help implementing them in fields**

1. Advocating for importance of addressing the issues on water and disasters

The United Nations Special Thematic Session on Water and Disasters (STSWD)

- UN Summit-level Sessions to address global issues on water and disasters
- Proposed by HELP and co-organized by HELP, UN Secretary-General and PGA since 2013
- Hosted by Member States
- Held biennially 2013, 2015, 2017, 2019, and 2021



The 5th United Nations Special Thematic Session on Water and Disasters (STSWD5)

June, 25th, 2021

“Building Back Better towards More Resilient and Sustainable Post-COVID-19 World”

Objectives

- To share lessons and promote actions on water-related DRR under COVID-19
- To propose concrete steps to build post-corona world back better

Speakers in Plenary Session

Opening Remarks

- Dr. Han Seung-Soo, HELP Chair
- H.E. Mr. Antonio Guterres, UNSG
- H.E. Mr. Volkan Bozkir, 75th PGA

Keynote Lecture/Speeches

- His Majesty the Emperor of Japan
- H.E. Mr. János Áder, President, Hungary
- H.E. Mr. Emomali Rahmon, President, The Republic of Tajikistan
- H.E. Dr. Mohamed Irfaan Ali, President of Guyana
- H.E. Ms. Sheikh Hasina, Honorable Prime Minister of Bangladesh
- HRH Princess Victoria, Crown Princess of Sweden



HELP International Symposium on “Water-related Disaster Risk Reduction under COVID-19 Pandemic” in SDGs Expo by UNCRD

Date and Venue: October 22nd, 2022 in Aichi Sky Expo, Tokoname City, Aichi Prefecture, Japan

14:25 - 14:40 Keynote Speech “Flood Management Renaissance - towards Sustainable and Resilient Society”

● Prof. Toshio Koike, Executive Director, International Centre for Water Hazard and Risk Management (ICHARM)

14:40 - 15:40 Panel Discussion

● Dr. Johannes Cullmann, Director, Cross-Cutting Coordination - Water and Cryosphere, World Meteorological Organization (WMO)

● Ms. Jingmin Huang, Director of Urban Development and Water Division, Pacific Department, Asian Development Bank

● Mr. Akihiro Shimasaki, Director for International Coordination of River Engineering, Water and Disaster Management Bureau, Ministry of Land, Infrastructure, Transport and Tourism, Japan

● Dr. Maki Koyama, Associate Professor, River Basin Research Center at Gifu University

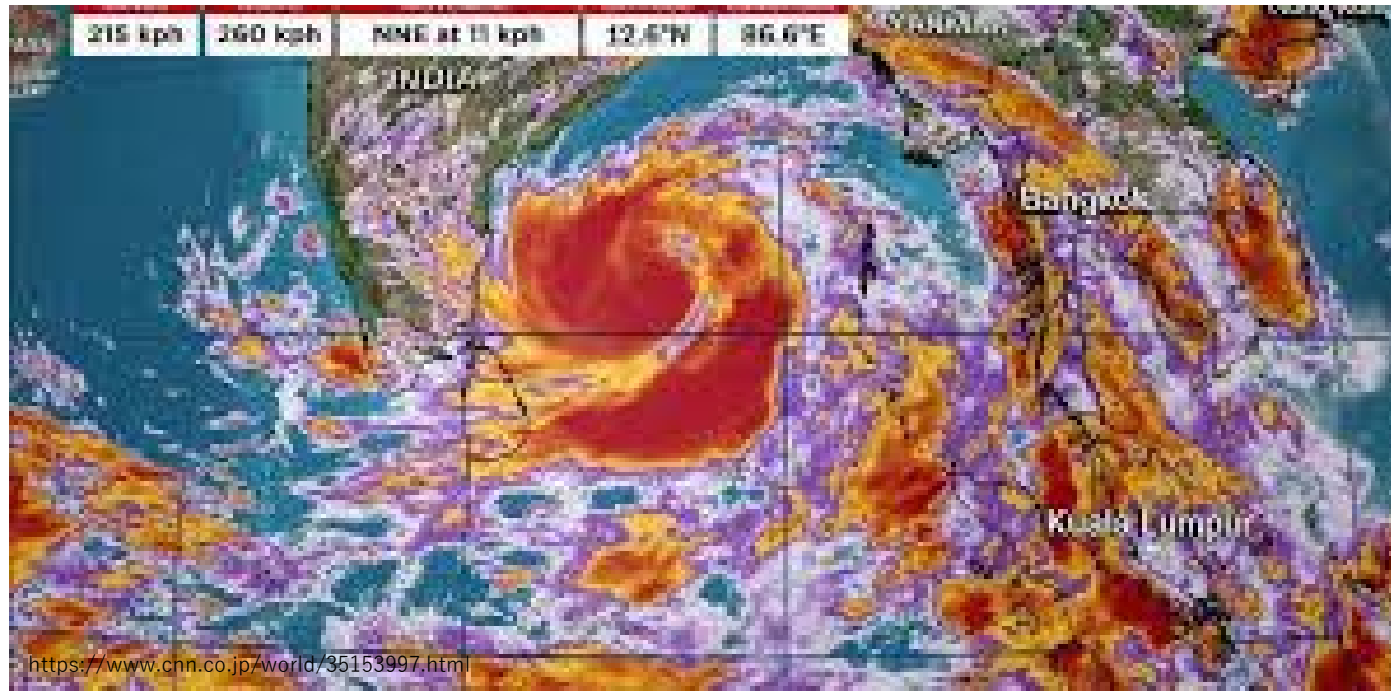
● Mr. Atsushi Kato, Chairman, Japan Toilet Labo.



2. Promoting global, country and field actions to address issues of water and disasters

- ✓ **The Principles to Address Water-related Disaster Risk Reduction (DRR) under the COVID-19 Pandemic, May 2020**
- ✓ **The Guiding Principles to Build Resilient Post-corona World, June 2021**
- ✓ **The Principles to Foster Peace before, during, and after Water-related Disasters, April 2022**

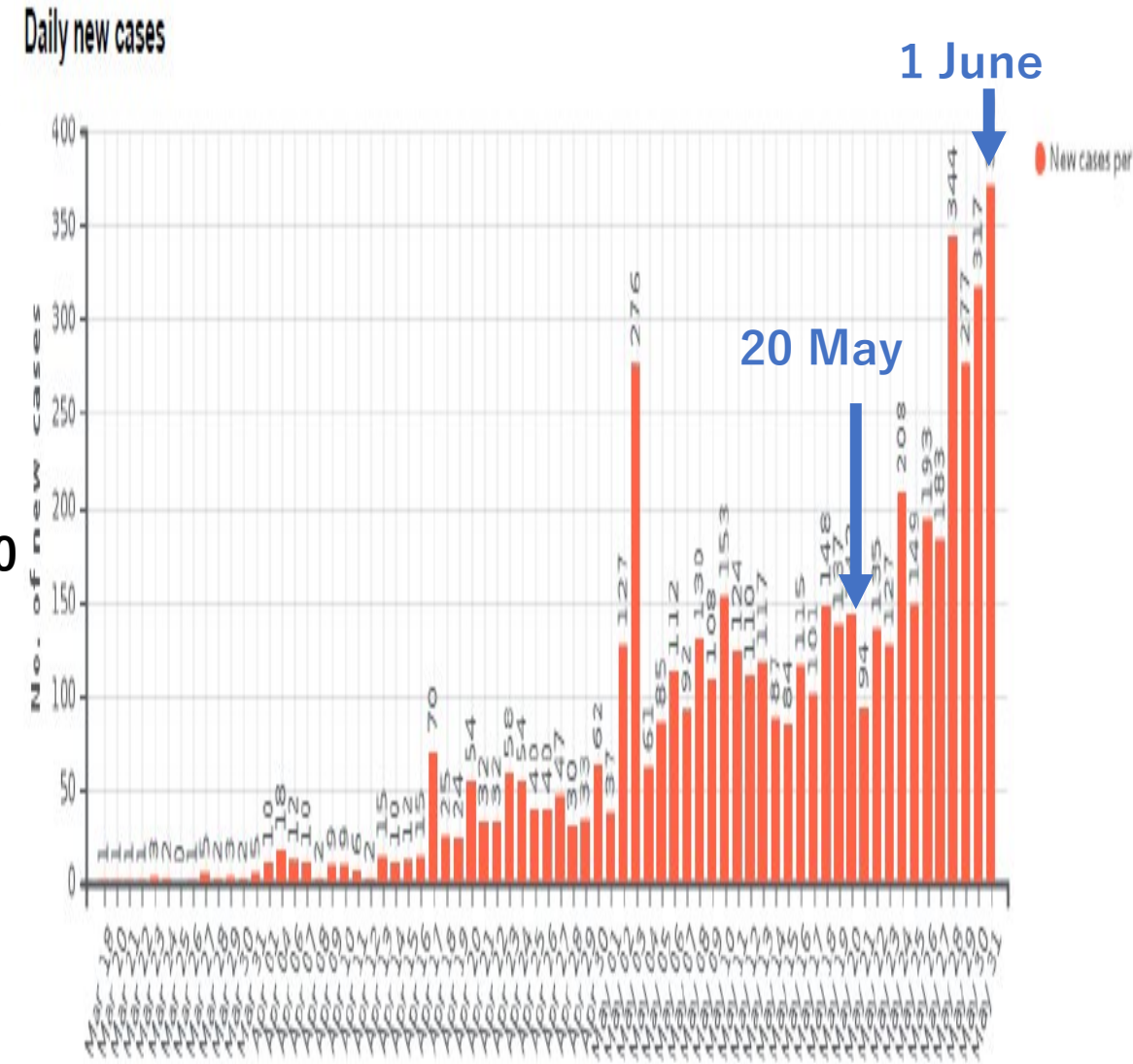
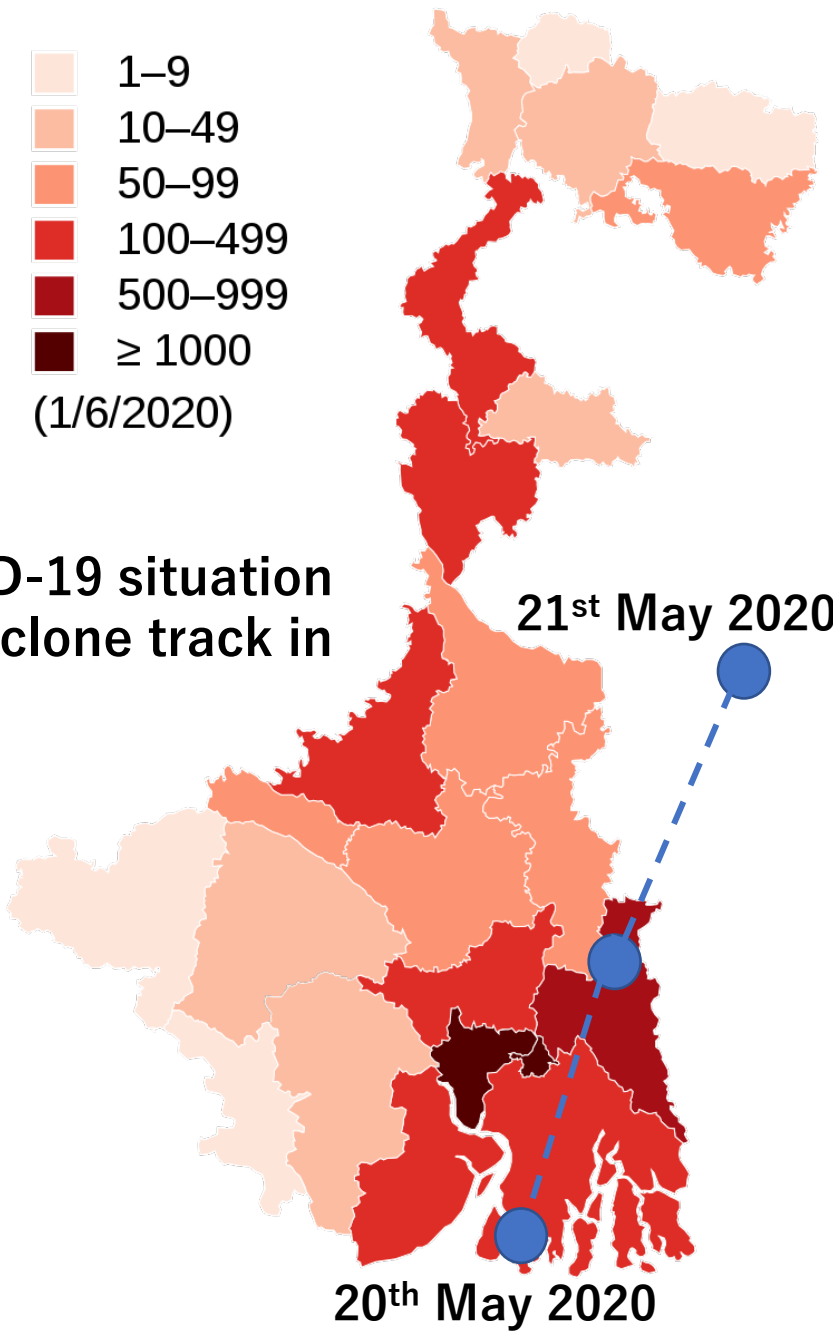
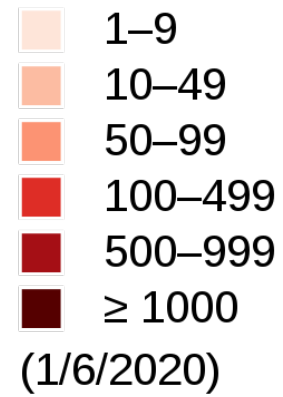
Cyclone Amphan, 16th-21st May 2020



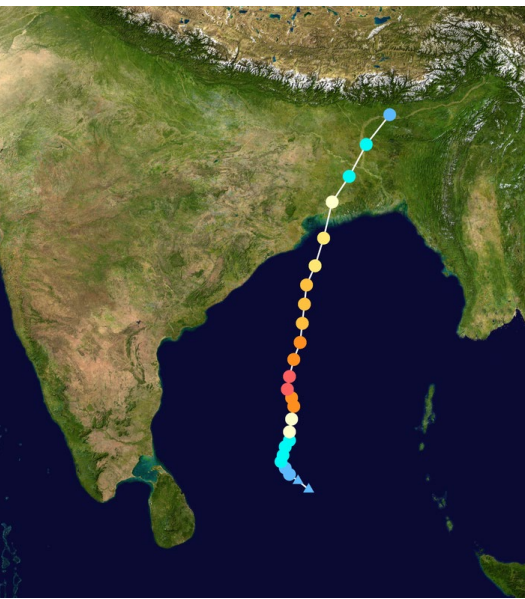
<https://healthpolicy-watch.org/cyclone-amphan-relief-efforts-ramp-up/>



<https://healthpolicy-watch.org/cyclone-amphan-relief-efforts-ramp-up/>



Overlap map of COVID-19 situation dashboard and the cyclone track in West Bengal, India



Daily new COVID-19 cases in West Bengal, India (21st March – 1st June)

Epidemic of COVID-19 and Cyclone Amphan in West Bengal, India

HELP Principles to Address Water-related Disaster Risk Reduction (DRR) under the COVID-19 Pandemic

Leaders, decision makers, and citizens should be aware that water-related disasters continue to be imminent in countries and cities under the COVID-19 pandemic. Disaster Risk Reduction (DRR) strategies and actions specially designed for the current pandemic situation will protect disaster-affected areas from becoming epicenters of pandemic explosion and assist with swift recoveries from disasters. The following Principles offer practical advice to political leaders, managers of DRR and COVID-19 responses, and for all stakeholders to formulate strategies and actions. These initiatives can address water-related disasters that may occur anytime in the future, even under the pandemic. While the Principles address water-related disasters, they are applicable to the other types of disasters as well.

- **Principle 1: Enhance leaders' awareness on disaster risk reduction (DRR) in the pandemic**
- **Principle 2: Integrate risk management of disasters and pandemics**
- **Principle 3: Provide clean water, sanitation, and hygiene sustainably during and after disasters**
- **Principle 4: Protect disaster risk management stakeholders from threat of COVID-19**
- **Principle 5: Protect scarce medical resources from disaster impact**
- **Principle 6: Protect disaster evacuees from threat of COVID-19**
- **Principle 7: Protect COVID-19 patients from threat of disasters**
- **Principle 8: Develop Specialized Evacuation Guidance for Cities and Areas under COVID-19 Lock-Down**
- **Principle 9: Finance DRR actions under COVID-19 effectively to avoid economic catastrophe**
- **Principle 10: Strengthen global solidarity and international cooperation to cope with these co-occurring challenges towards building our world back better**

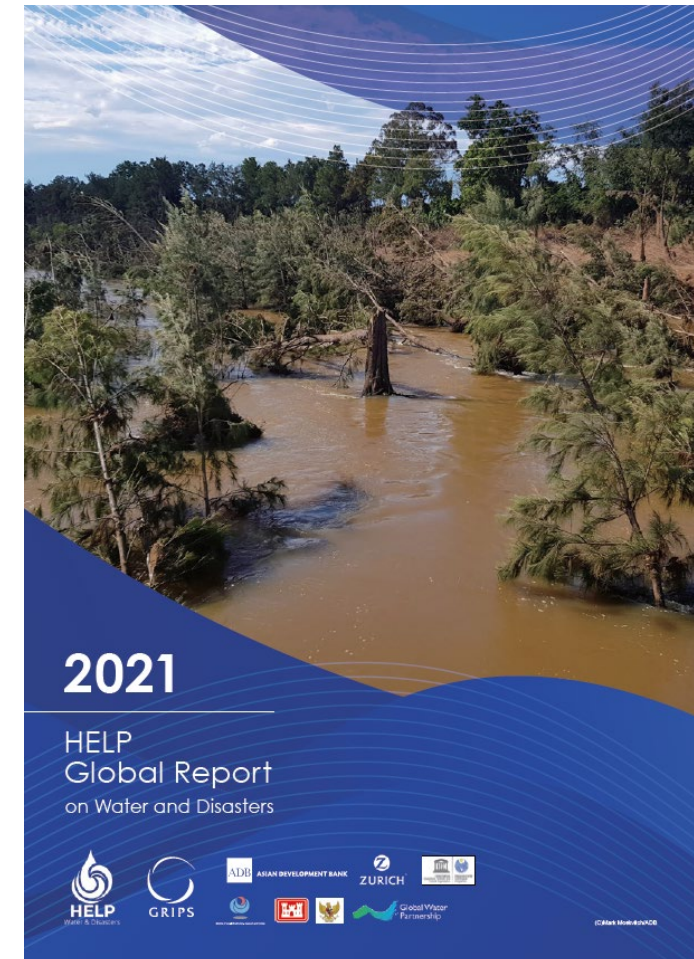
 **Translated into 16 UN and National Languages**

3. Sharing lessons and good practices and help implementing them in fields

HELP Annual Global Report on Water and Disasters (2019-)

- Vol. 2021, Cases from the latest disasters under COVID-19 -

1. Overview of Water-related Disasters under COVID-19 Pandemic
2. Overview of Major Water-Related Disaster in Japan in 2020 and a new policy, "River Basin Disaster Resilience and Sustainability by all"
3. U.S. Army Corps of Engineers Emergency Response Operations within the COVID-19 Environment
4. CHALLENGES ON MAJOR WATER RELATED DISASTER AND COVID-19 PANDEMIC IN INDONESIA IN 2020 – 2021
5. Water-Related Disasters and COVID-19: Exploring the relevance of the HELP Principles in Caribbean Small Island Developing States.
6. Analysis of economic impacts with a focus on DRR and Climate Change Adaptation financing due to COVID-19
7. Developing resilience to address water disasters – case studies from Africa
8. COVID-19 and Water in Asia and the Pacific



Thank you