

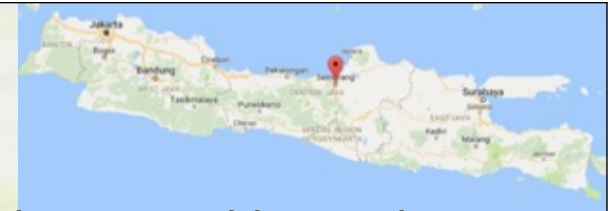
アジア諸国での影響とパリ協定

Climate Change Impacts and Paris Agreement

2016年8月1日
FoE Japan
プログラム顧問
小野寺ゆうり



Supporting communities to coop with climate change in Indonesia



FoE Japan has been supporting projects with a few local communities and community organizations in the costal areas around Samarang City, central-Java, Indonesia to support community-led initiatives to coop with climate change impacts since 2008

- **Indrokilo Village, Samarang**

- Changing rain pattern, drought and flash-floods
- A community-managed agroforestry initiative, shifting from monoculture plantations

- **Tabak Village, Samarang**

- Sea-level rise by industrialization and climate change
- Planting mangroves instead of eroding embankment

- **Bandungan Village, Pekalongan City**

- Sea-level rise by 1-1.5 meter depth of sea-water invasion (4 cm/year rise) into previously fertile jasmine-rice fields since early 2000s
- loss of livelihood, deteriorating housing environment and spreading diseases
- initial mangrove planting is no longer effective, cooping with this level of change is very difficult

Peoples' Test in Paris

- Sustainable energy transformation
Catalyze immediate, urgent and drastic emission reduction, and provide adequate support for transformation
- The right to food and water
- Deliver justice for impacted people
- Focus on transformational action

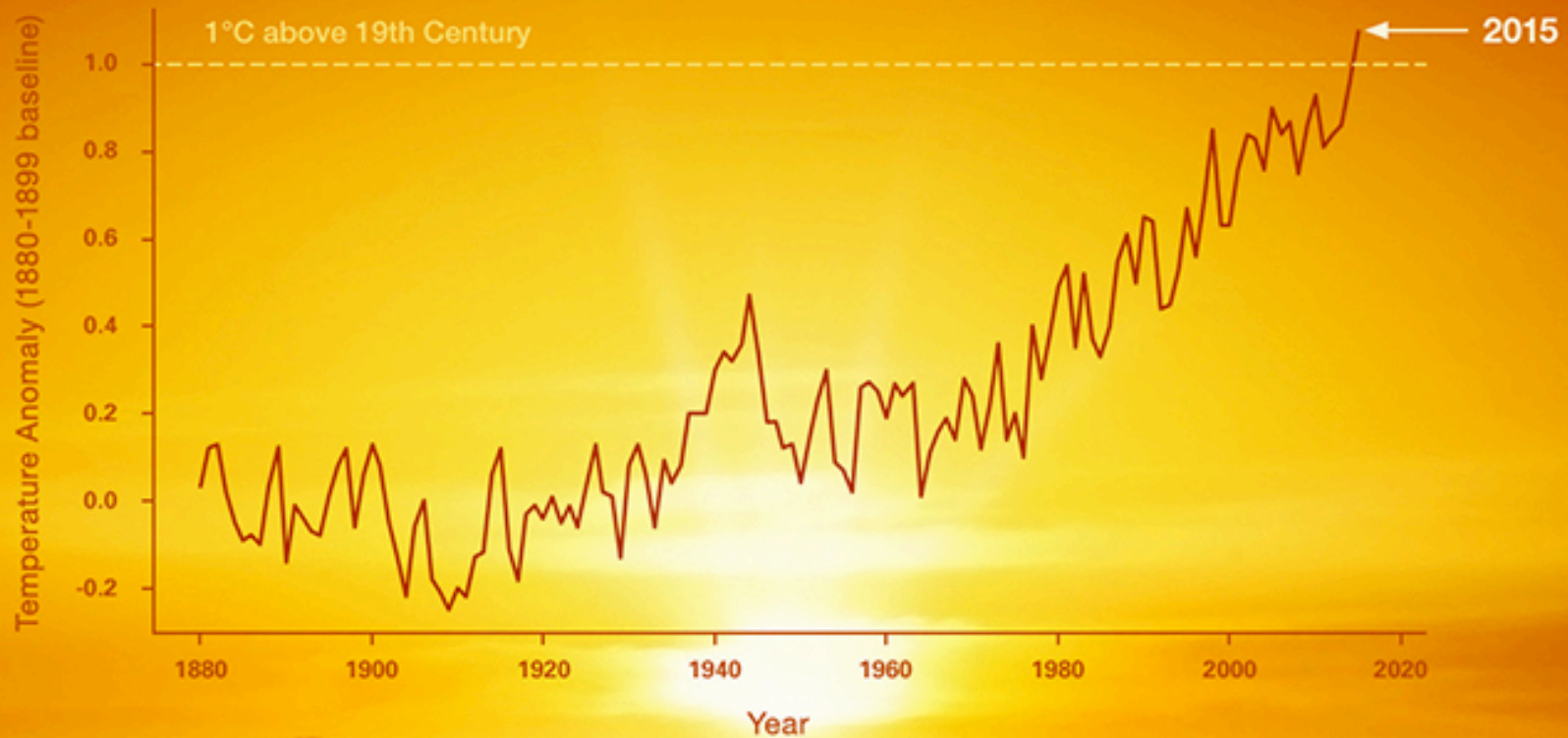
Paris Agreement

A historic diplomatic success in Paris, **BUT**.....

- Big polluters continue to pollute big - temperature up **over 3°C**
- **1.5°C temperature goal**, but how to get there?
- Phasing out fossil fuels after mid-century, but with the use of farm land and forest to offset emissions
- Carbon markets, a lot of them shifting responsibility to Global South
- Lack of public support to developing countries
- No enforcement mechanism nor compensation, only reporting and reviews

..... and lots of countries promote problematic (false) solutions

Rising global temperature



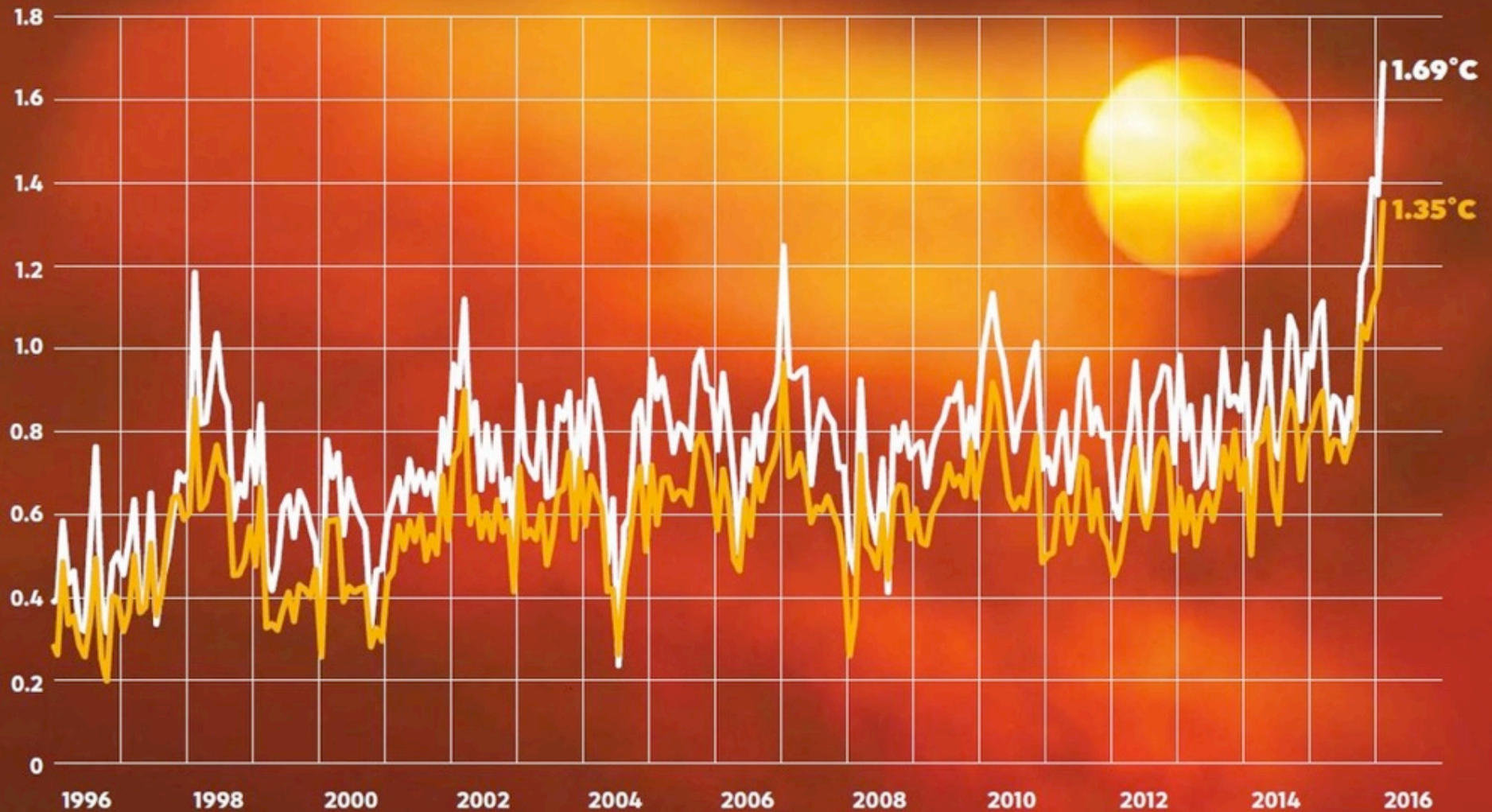
Spiking temperature in 2016

THE WARMEST FEBRUARY ON RECORD

TEMPERATURE ANOMALY, (DEPARTURE FROM LONG-TERM AVERAGE)
°C

● METEOROLOGICAL STATION'S READINGS

● LAND-OCEAN TEMPERATURE INDEX

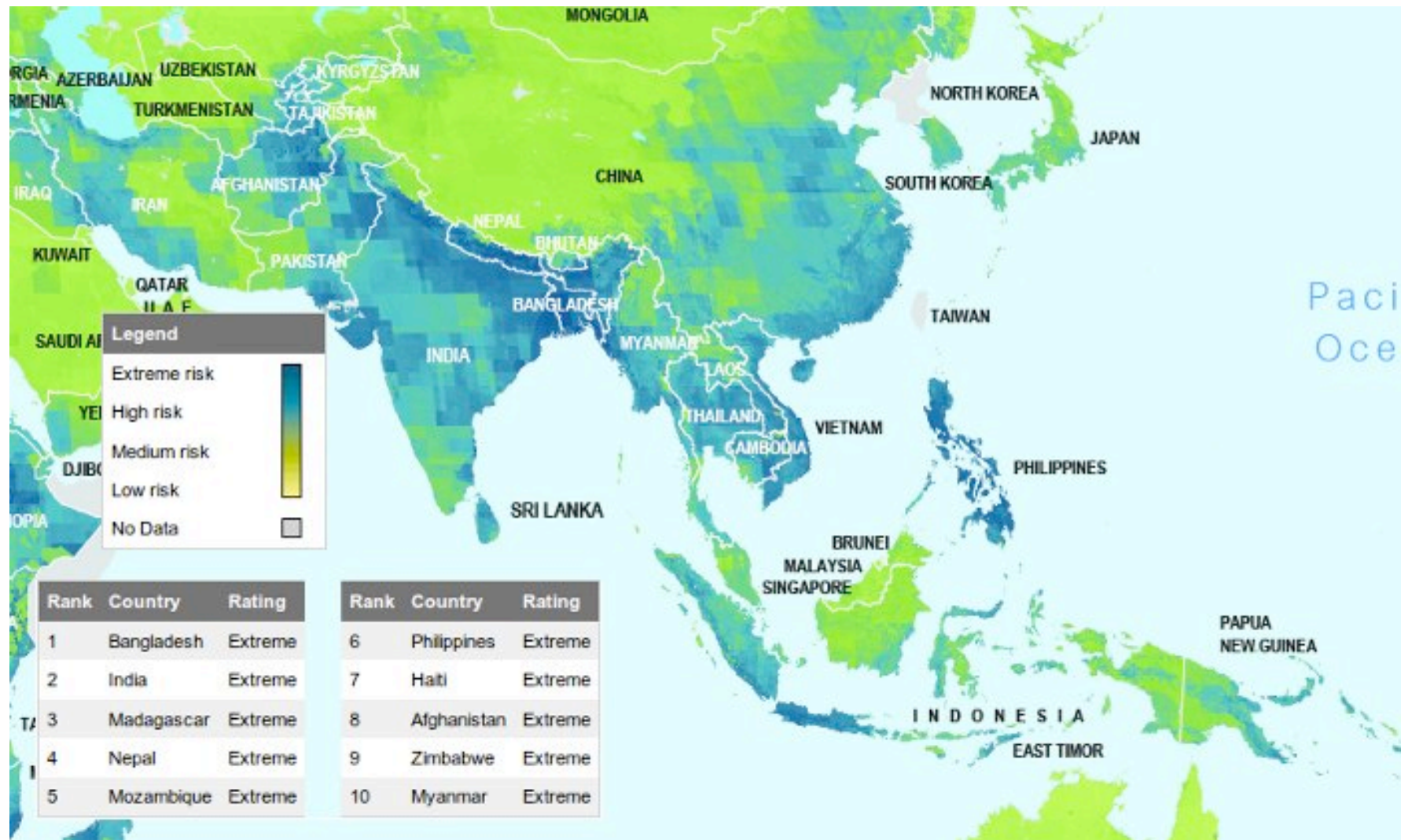


SOURCE: NASA

Climate-related Disasters in Asia

Asia is the most vulnerable region to extreme weather events

maplecroft climate change vulnerability index

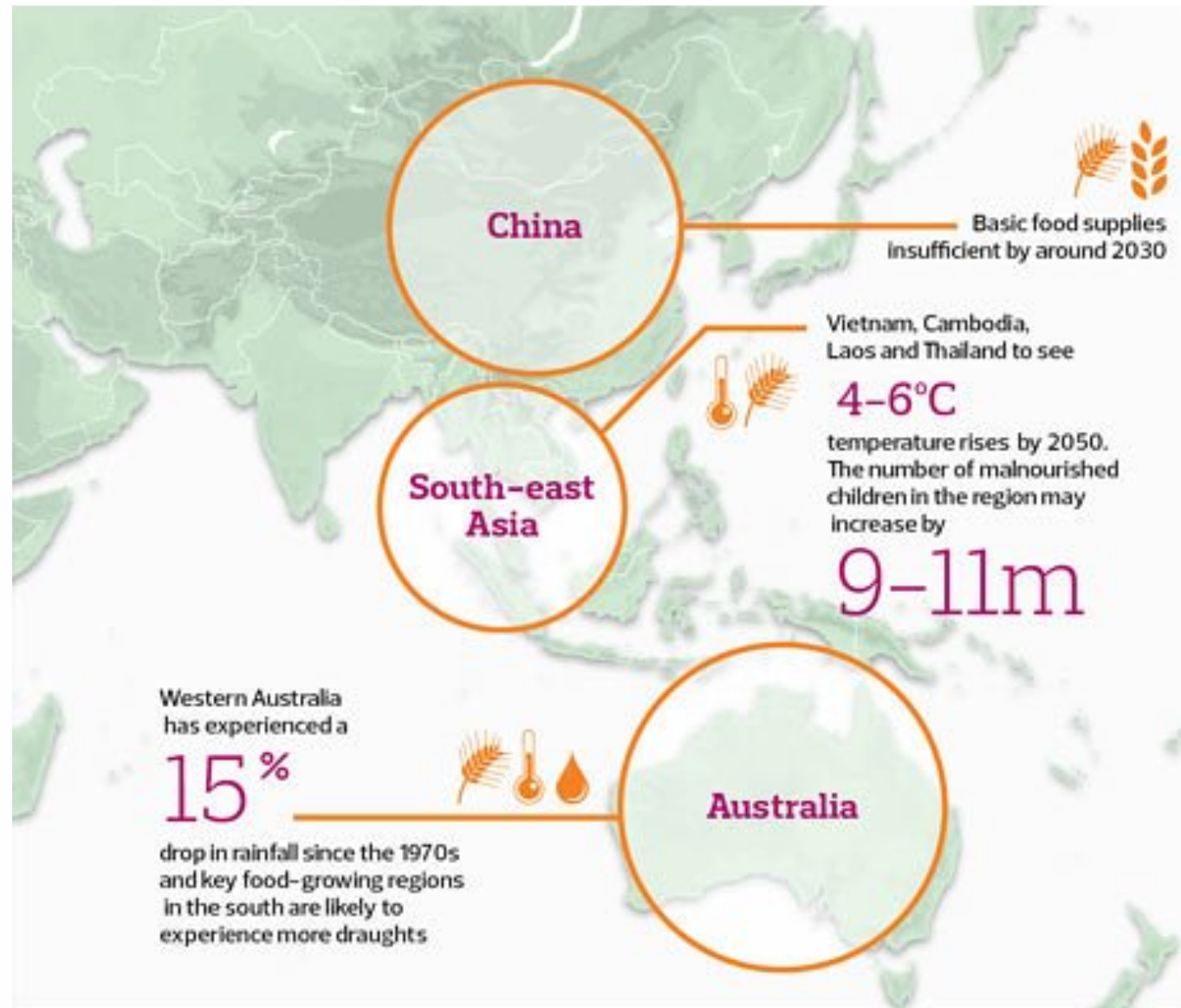


Major Climate Impacts in the Region

- **SOE - Sea Level & Temperature Rise, Rain-pattern Change**
 - **Loss of Home, Land and Food, and eco-systems**
 - **Heat Waves - Death Toll**
 - **Forest Fires**
 - **Food Security**
 - **Clean Freshwater Supply - Competition and Conflict**
 - **Vector Diseases (e.g. mosquito-carried diseases)**
 - Sanitation and Healthcare costs**
 - **Climate Disasters (super-storms, floods, droughts)**
 - Loss of life, damages and reconstruction costs**
- ➡ **Loss of Land, Community, Traditional Culture, Country**
- ➡ **Poverty and Migration (tens of millions already on the move)**

Food security at risk - the right to food&water

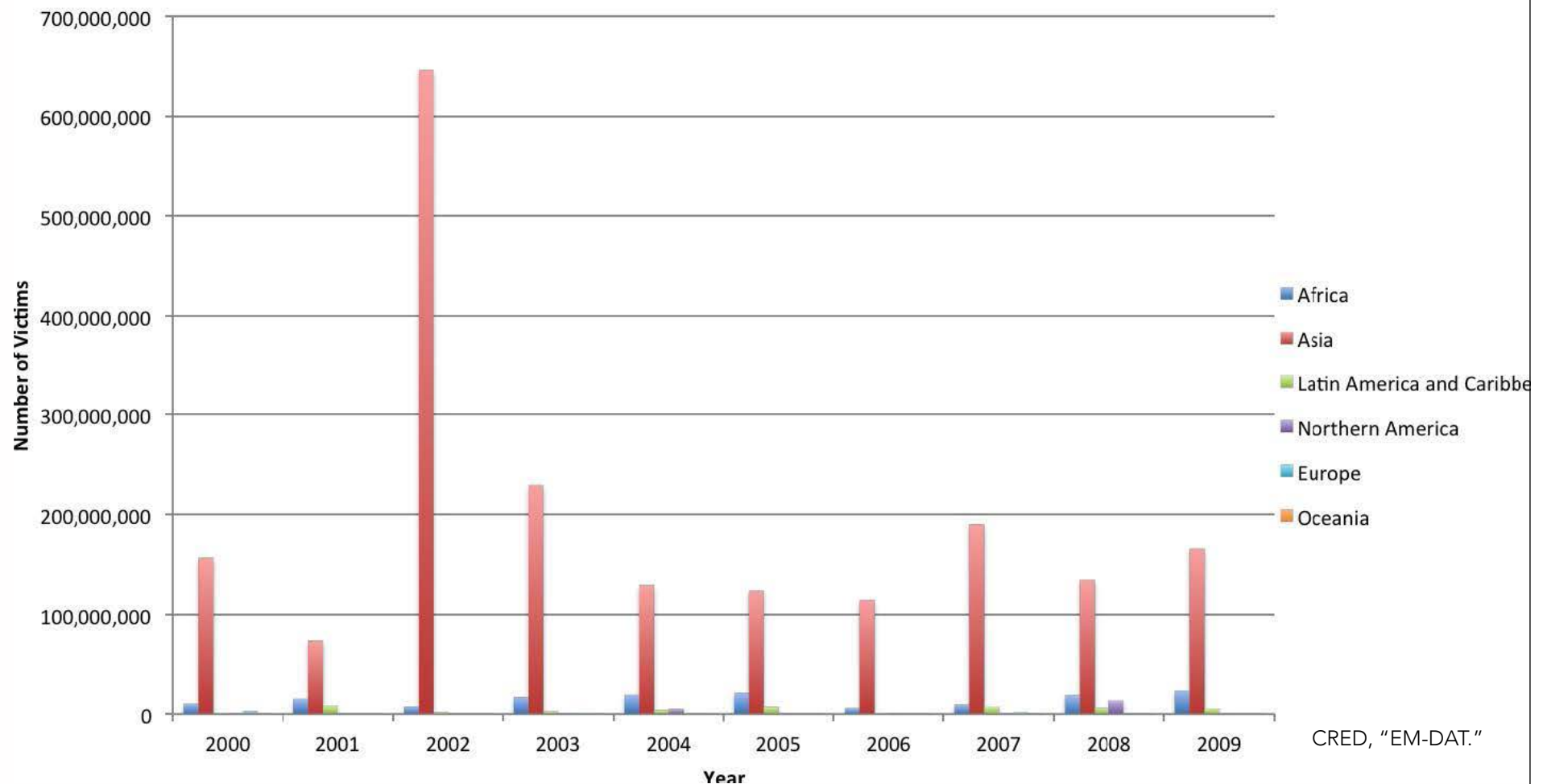
Forecast 20% reduction in yields over the Asia region per degree Celsius of temperature rise. Rice becomes sterile if exposed to temperatures above 35 degrees for more than one hour during flowering and consequently produces no grain.



Lives lost by climate disasters in Asia

Sixty percent of the world's population lives in Asia. By one count, as many as 17 of 26 megacities are located in Asia. As a consequence, of the 2.22 billion people killed and affected by climate-related disasters worldwide from 2001 to 2010

Reported Number of Victims of Climate-Related Disasters by Region



World natural catastrophes

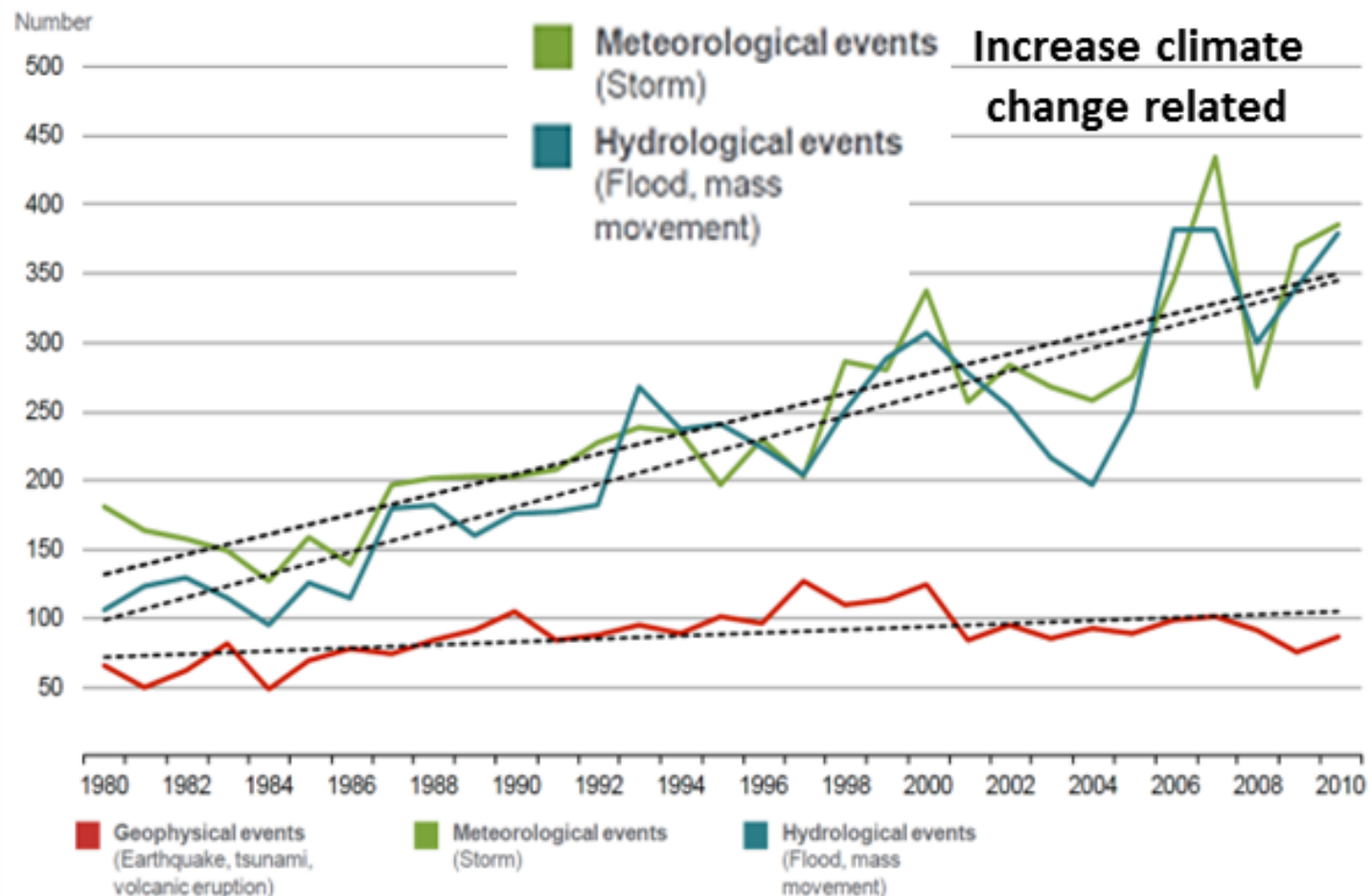
1980-2010

Vast majority
of economic
losses
occur in the
developed
countries

3/4 of human
losses are in
low and
lower-middle
income
countries

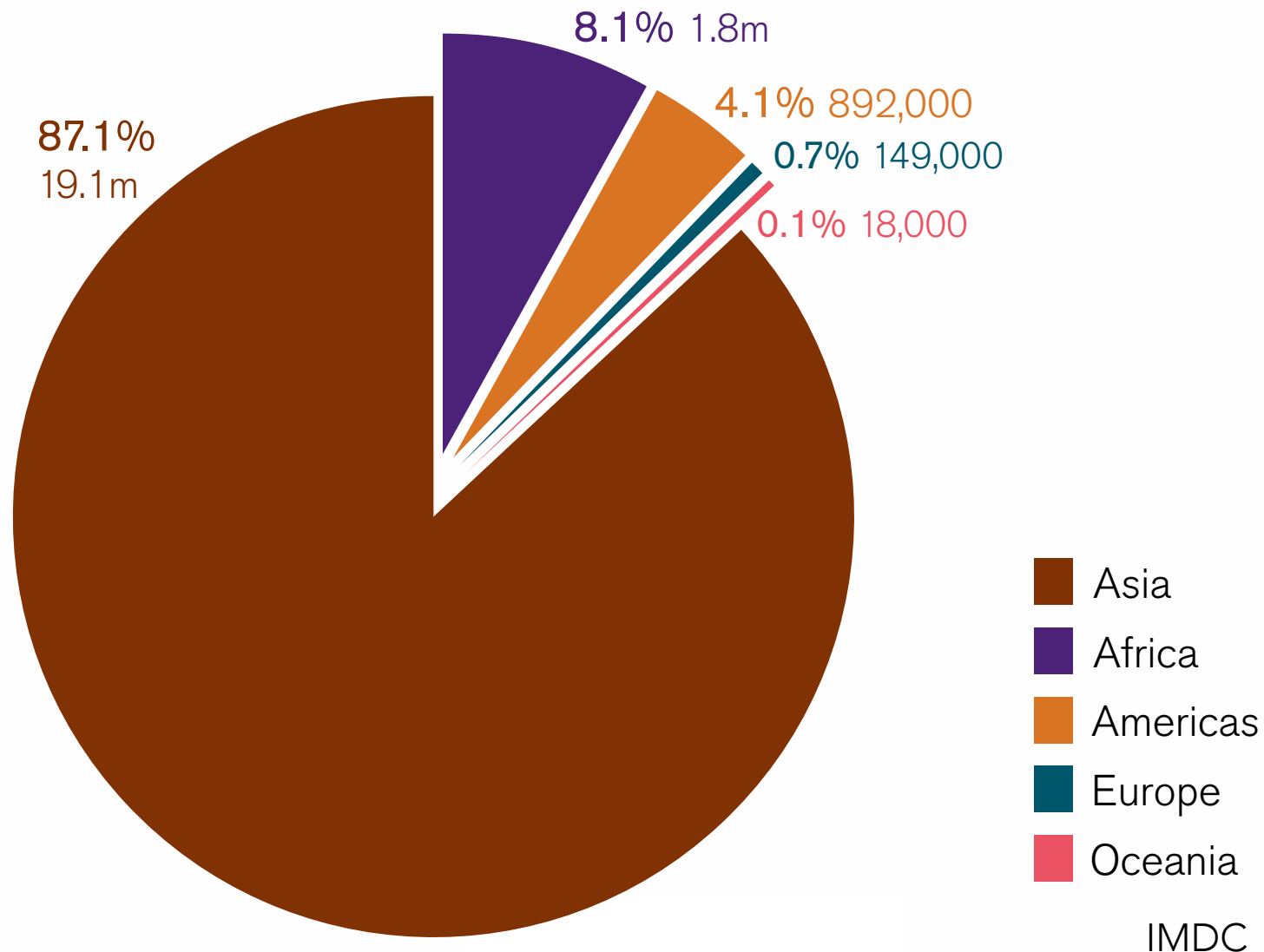
Natural catastrophes worldwide, 1980 – 2010
Number of events by peril with trend

Munich RE 



People displaced by natural disasters in Asia, 2013

19 million people in Asia were displaced by natural disasters (inc. earthquakes)



Climate-related Disasters in Asia

Top 10 countries that have been affected by the impacts of weather-related loss events (storms, floods, heat waves etc) in 2013

Ranking 2013 (2012)	Country	CRI score	Death toll	Deaths per 100,000 inhabitants	Absolute losses (in million US\$ PPP)	Losses per unit GDP in %	Human Development Index ¹⁰
1 (2)	Philippines	2.17	6479	6.65	24538.56	3.82	117
2 (65)	Cambodia	6.67	184	1.22	1495.52	3.24	136
3 (46)	India	12.67	7437	0.60	15147.02	0.22	135
4 (58)	Mexico	15.00	224	0.19	10589.70	0.51	71
5 (143)	St. Vincent and the Grenadines	15.33	9	8.18	96.58	8.33	91
6 (3)	Pakistan	15.50	301	0.16	5419.77	0.65	146
7 (143)	Lao PDR	17.67	23	0.34	263.51	0.83	139
8 (32)	Vietnam	17.83	152	0.17	2397.04	0.50	121
9 (40)	Argentina	20.33	122	0.29	2010.00	0.22	49
10 (16)	Mozambique	21.67	119	0.46	88.21	0.33	178

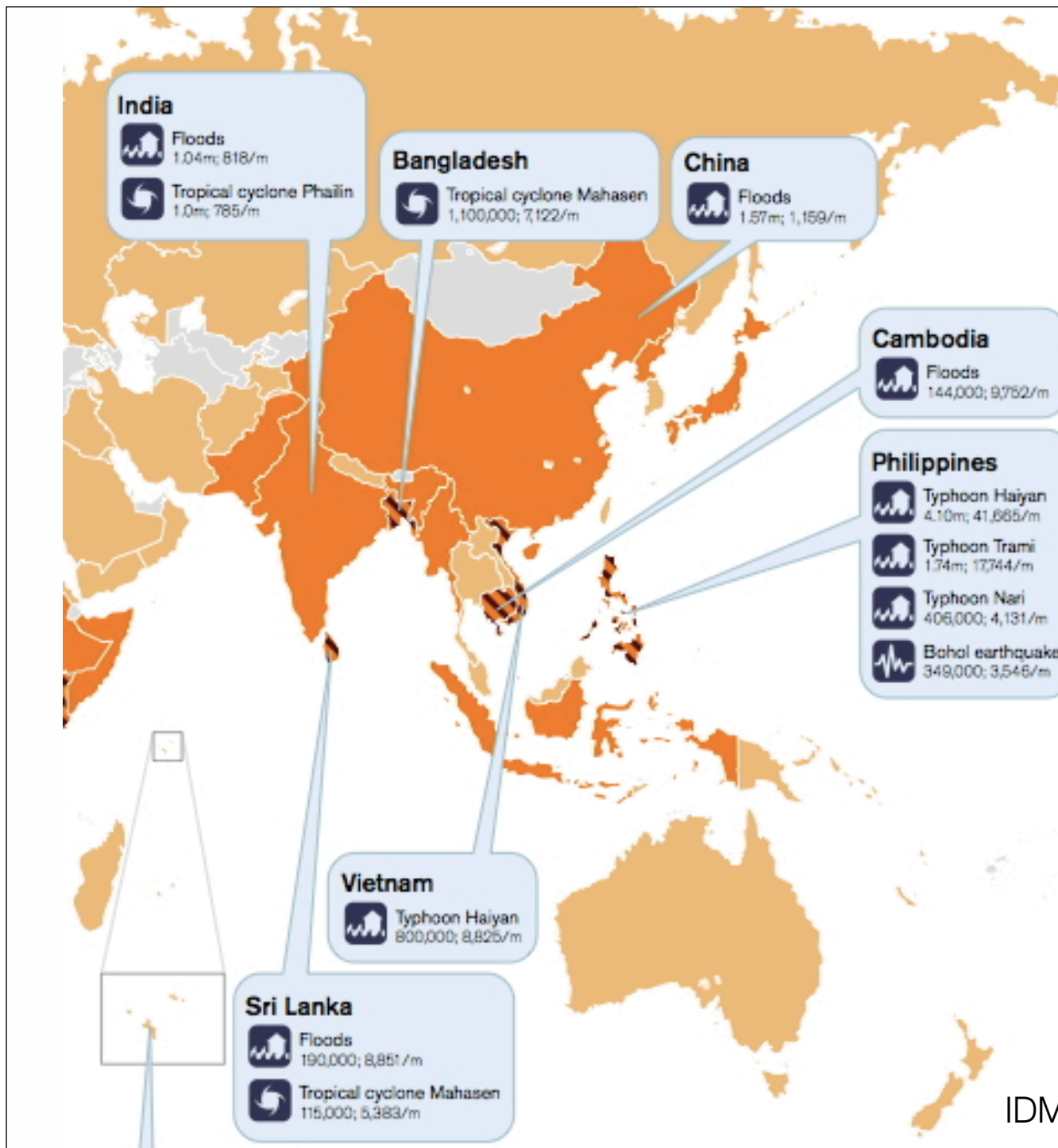
The Global Climate Risk Index 2015, Germanwatch

Millions Of Displaced People On The Move in Asia

The UNHCR estimates 26.4 million people are newly displaced a year since 2008 by natural disasters worldwide, the figure doubled since the 70s

warning between 250 million and one billion people throughout the world will lose their homes or be forced to move from their region or even country over the next 50 years

IDMC 2013




Climate Change Is Fundamental Human Rights Violation

Millions of people in Asia - economically, socially, culturally vulnerable people in poverty - are already losing livelihood, farm-land and forests, housing, access to food and clean water, and their lives.


The UNHCR estimates that between 250 million and one billion people throughout the world will lose their homes or be forced to move from their region or even country over the next 50 years

All persons and communities affected by climate induced catastrophes, in particular those who are forced to flee their homes and lands, must be afforded the respect and protection of the full spectrum of rights



Thank you!
ありがとうございました

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 **FoE Japan**