The State of the Global Climate in 2017

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Carbon dioxide concentration continue to rise

**Growth rate**
Global temperature deviations 1850-2017

~ 1.1°C above pre-industrial period

2017: 1.1°C above 1880-1900 (pre-industrial).

among top 3 warmest years on record: 2015, 2016, 2017
2017 – the warmest non-El Niño year on record

Weak then strong El Niño conditions held through 2015
Global sea level rise: +26 cm 1870-2017

NASA-EUMETSAT Satellites (1993-present)

Tide gauges (1870-2000)
Climate risks, extreme events and related impacts 2017

- 2nd year of major bleaching in the Great Barrier Reef
- Approximately 30% of the world population face extreme heatwaves
- +41 million affected by floods in South Asia
- Major destruction in the Caribbean associated with successive hurricanes
- +760,000 drought & food security related internal displacements in Somalia
- Exceptionally heavy rains contributed to deadly landslides in Sierra Leone
- Destructive wildfires around the world
- +80% of food insecure people live in natural hazard-prone areas
Growing number of weather related disasters 1980-2016
Very active North Atlantic hurricane season

Satellite-estimated rainfall (cm) for 23-31 August (Hurricane Harvey). Source: CPC

Hurricanes Irma (centre), Jose (right) and Katia (left)