Insurance and Comprehensive Climate Risk Management – Addressing Needs of the Poor & Vulnerable

Chair: Simone Ruiz, Allianz Climate Solutions | @sruizvergote

Panel:
• Joanna Haigh, Grantham Institute, Imperial College London | @Grantham_IC
• Soenke Kreft, Munich Climate Insurance Initiative | @_MCII_
• Christian Barthelt, Munich Re Foundation | @MunichReFound
• Admasu Feyisa, Ministry of Finance and Economic Cooperation (Federal Democratic Republic of Ethiopia) | @TweetMofED

Join the conversation: #ClimateRisk
Climate change impacts and extreme events

Joanna Haigh

COP23 event on climate change impacts and insurance
Bonn 7 Nov 2017
Impacts arise from changes in:
- average conditions
- extremes

How does climate change affect the occurrence and/or severity of extreme weather events?

How can we attribute a particular event to climate change?

e.g. Gulf of Mexico heavy rain events Aug 2016
Russian heat waves 2010

model simulations
1960s
2000s

Different challenges for each event type

National Academies 2016
Evidence for human-influenced climate change was identified for:

- Ten extreme heat events, including heat waves in Europe, India, Pakistan, China, Indonesia, Japan, and Australia
- The record average global temperature in 2015
- Record-low Arctic sea ice in March
- Alaska's intense wildfire season
- Extreme drought in southwestern Canada
- Extreme May rainfall in southeast China
- Florida's “sunny day” flood in September
- Record winter sunshine in the United Kingdom

No climate change signal was found for:

- Outbreaks of extreme cold in the eastern US and Canada
- The late onset of Nigeria’s spring rainy season
- Heavy daily precipitation in December over Chennai, India
Current C emissions pathway will result by 2100 in…

- 2 billion people with increased water scarcity
- 10-12 billion person-exposures to heatwaves/year
- 70-90 million people/year affected by river flooding
- Cooling demands 2x
- 50% of plant species lose > half habitat
- 60% of cropland less suitable for agriculture

http://www.avoid.uk.net/