Climate change: emergency or crisis?

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408 ppm





42 Gt

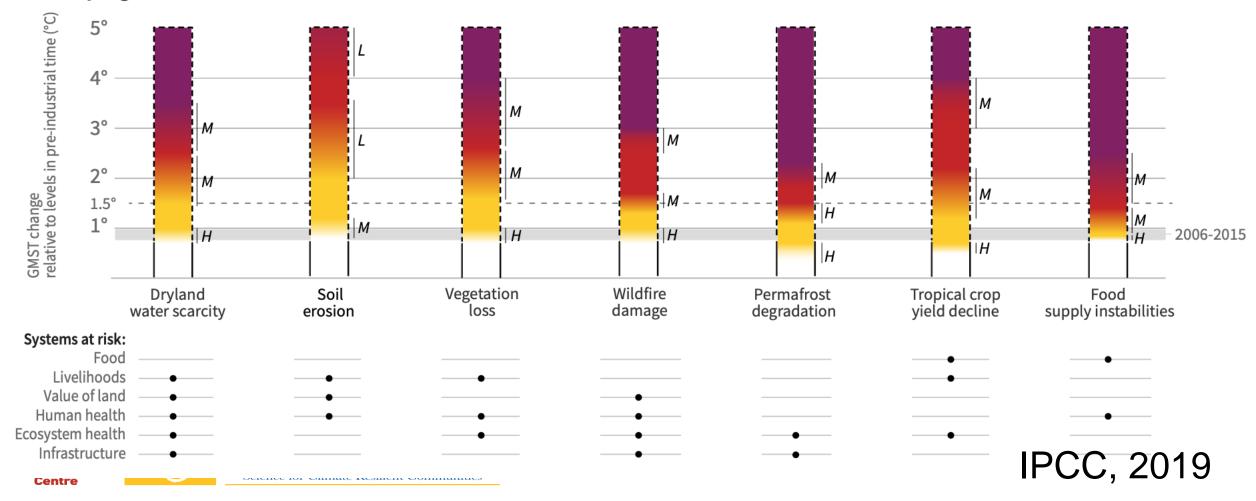
$$(37 + 5)$$





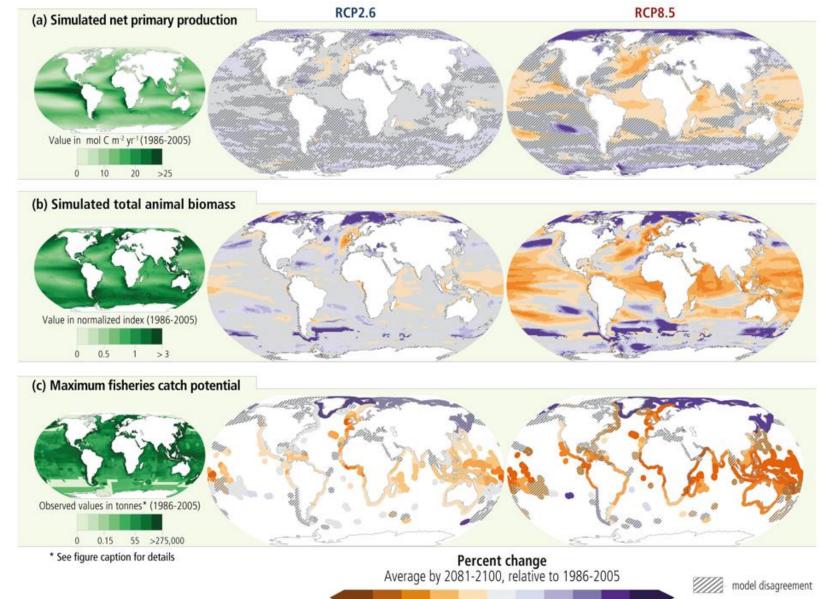
A. Risks to humans and ecosystems from changes in land-based processes as a result of climate change

Increases in global mean surface temperature (GMST), relative to pre-industrial levels, affect processes involved in **desertification** (water scarcity), **land degradation** (soil erosion, vegetation loss, wildfire, permafrost thaw) and **food security** (crop yield and food supply instabilities). Changes in these processes drive risks to food systems, livelihoods, infrastructure, the value of land, and human and ecosystem health. Changes in one process (e.g. wildfire or water scarcity) may result in compound risks. Risks are location-specific and differ by region.



Projected changes, impacts, and risks (IPCC, 2019)

Projected changes, impacts and risks for ocean ecosystems as a result of climate change



-30 -20

-10

no data





630 M



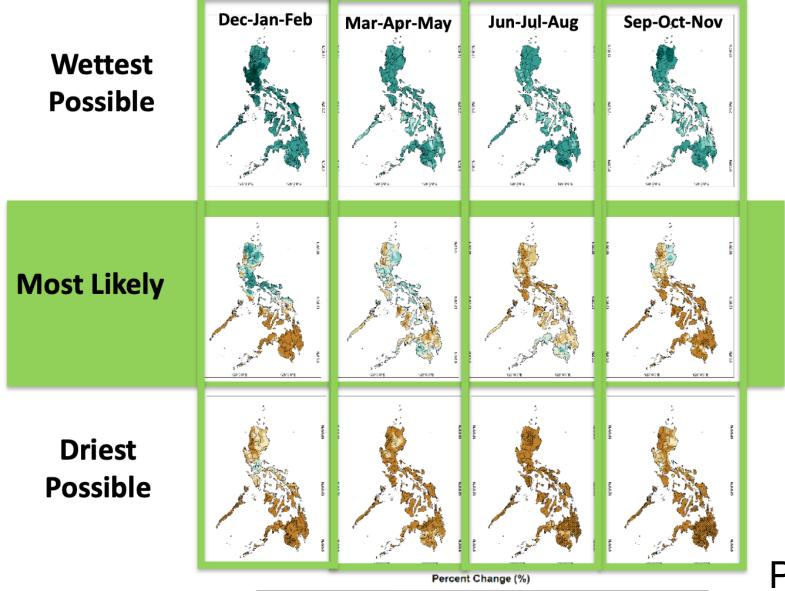


6.8 M





Projected changes in seasonal total rainfall by the Mid-21st Century (2036-2065) based on RCP8.5 scenario







Emergency (Merriam-Webster)

1. an unforeseen combination of circumstances or the resulting state that calls for immediate action

2. An urgent need for assistance or relief





Crisis (Merriam-Webster)

- an unstable or crucial time or state of affairs in which a decisive change is impending...
- especially one with the distinct possibility of a highly undesirable outcome





What can we do?

- Address current climate risks
- In such as way that future resilience is enhanced
- Pursue scientific studies to provide a basis for sound policies and programs





Thank You!!!







