



ROAD

SATELLITE



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REPORTS COLLECTED

116

ABOUT STATISTICS NEWS FEED

Crowdsourcing human responses to climate change

1



You collect data through observations and interviews

2



Submit this data via the "Submit a report" function

3



We review the data and post it to the map

- TYPE OF REPORT
- Personal Observation
 - Interview
 - Story
 - Weather data
 - Other

Nikhil K. Advani, Ph.D.

Climate Adaptation and Resilience

World Wildlife Fund - USA




Once in a century drought (2005)



Another once in a century drought (2010)?





2010 drought

- Half the Amazon affected
- 37,000 forest fires
- 2 billion extra trees died compared to a normal year
- 8 gigatons CO₂ released

US economy in 2009?



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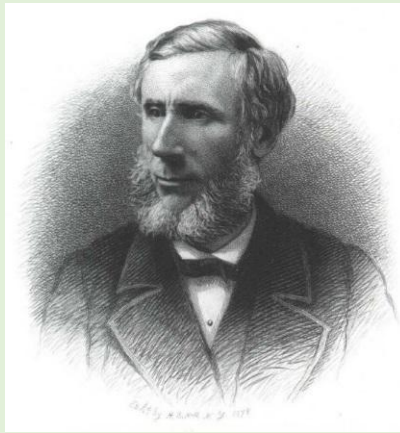
US economy in 2009?

- 5.4 gigatons

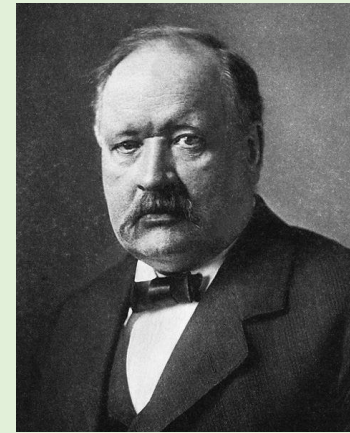
The history of global warming



1824 – Joseph Fourier
Greenhouse effect

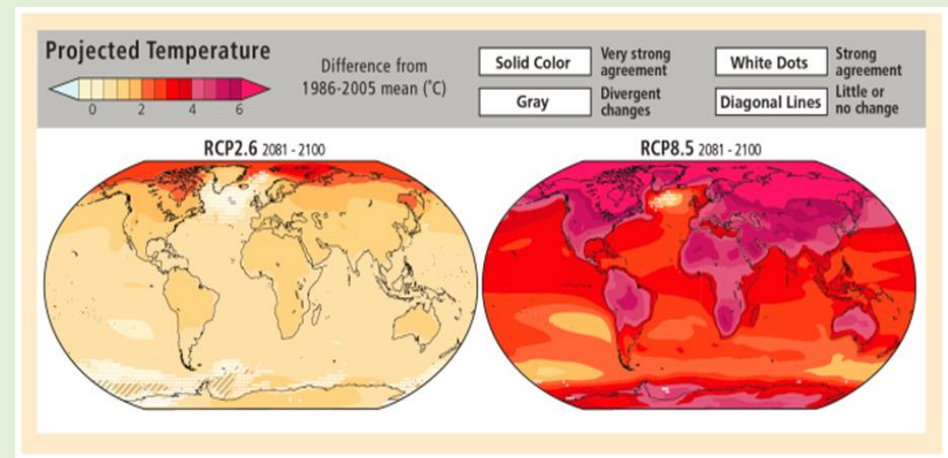
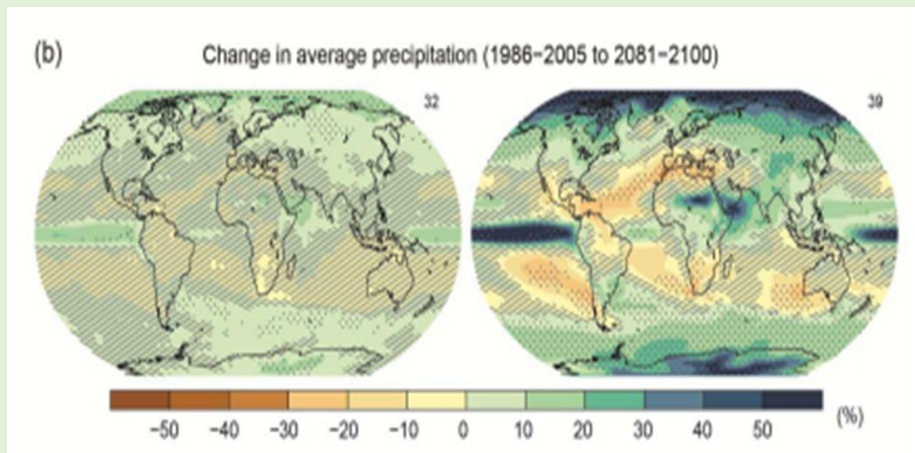


1859 - John Tyndall
CO₂ Insulating effect

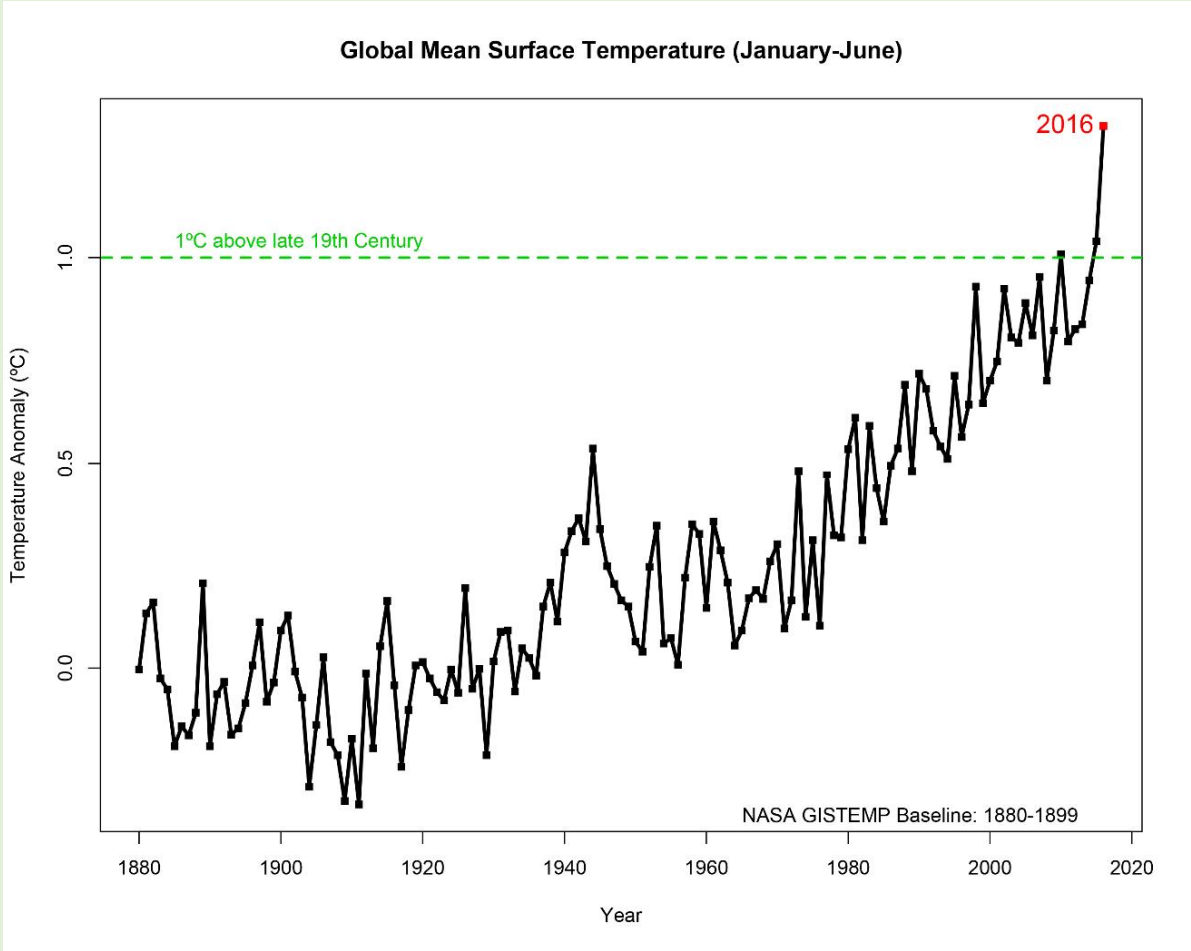


1896 - Svante Arrhenius
Changes in atmospheric CO₂ lead
to surface warming

What is climate change?

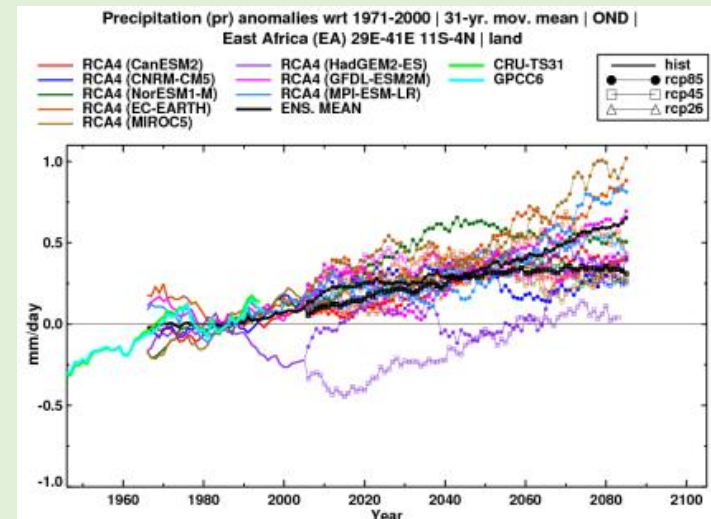
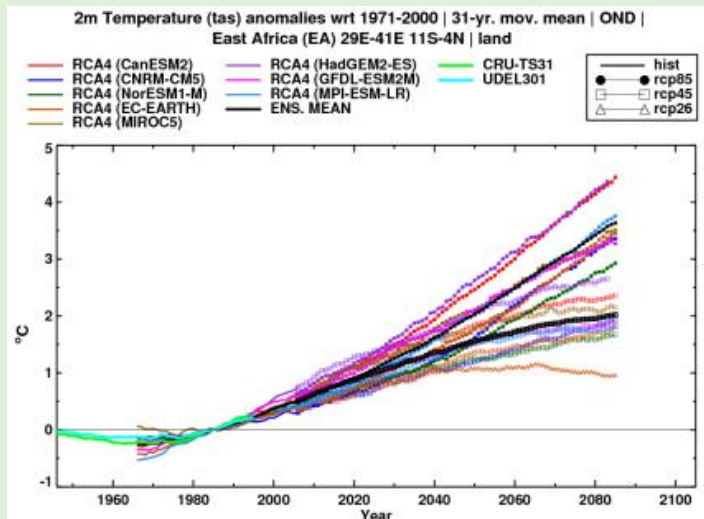


January – June 2016



Climate in East Africa

- Changing seasonality, drought, higher temperatures
- The observed warming is more likely to continue at the same rate of change/direction than the observed rainfall trends
- Most projections actually indicate an increase in rainfall for the region





May 20, 2016



June 7, 2016



May 4, 2016



March 1, 2016

Impacts of climate change on wildlife

- Range shifts (altitudinal/poleward)
- Extinction
- Changing food/water availability
- Increase in pests and disease
- Changes in phenology
- Coral bleaching
- Habitat loss
- Human-wildlife conflict



Mountain gorillas and water



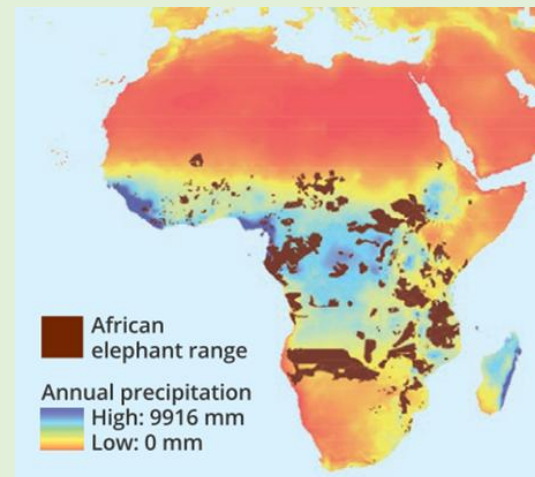
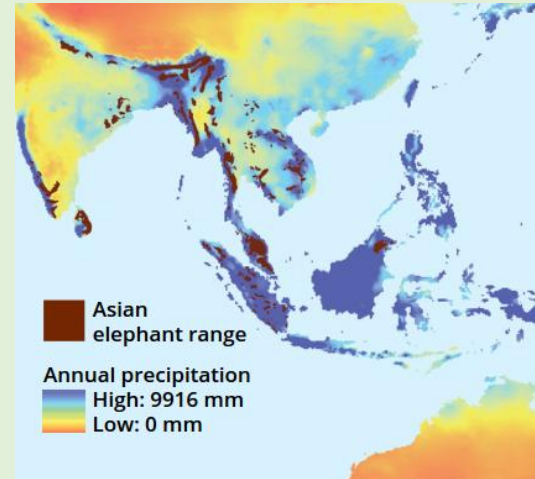
Mountain gorillas and water



Samburu, Kenya (2009)



Elephants and water



Climate Crowd (wwfclimatecrowd.org)

Climate Crowd
Crowdsourcing human responses to climate change

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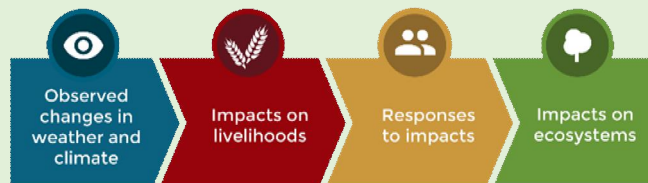
How does Climate Crowd work?

- 1 You collect data through observations and interviews
- 2 Submit this data via the "submit a report" function
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together possible

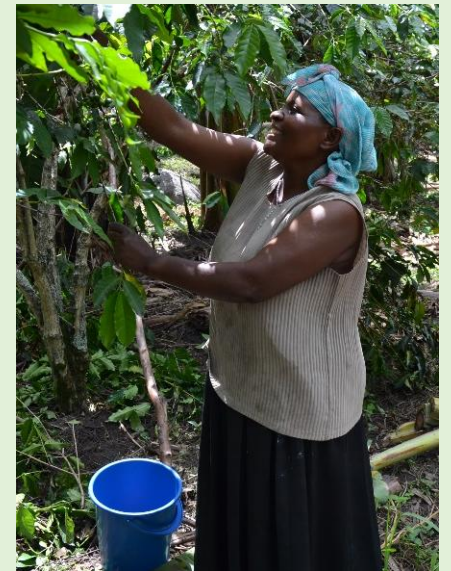


Collecting data on....

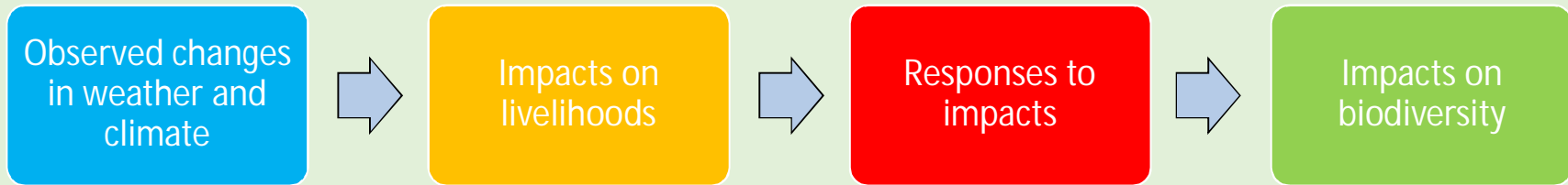
- The kinds of changes vulnerable communities are experiencing
- How they are responding to these changes
- How their responses are impacting biodiversity

Through...

- Key informant interviews
- Informal conversations with relevant actors
- Personal observations

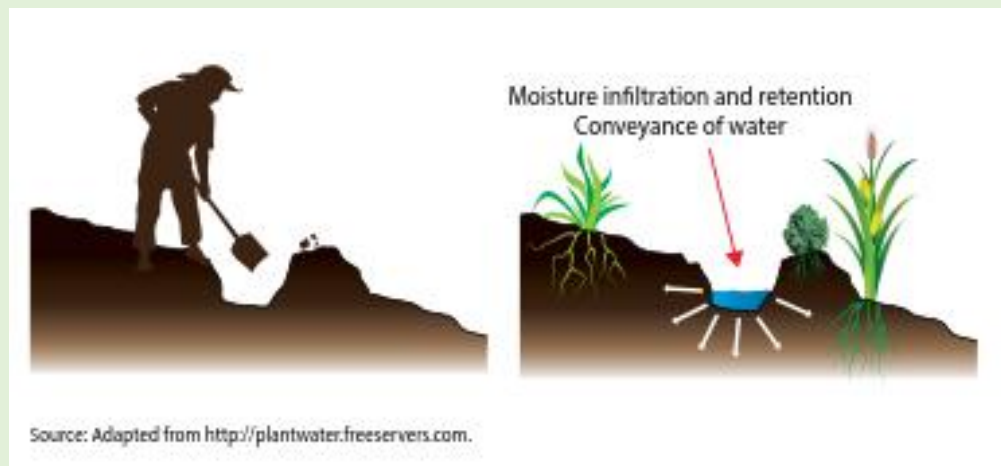


Logic chain



Climate adaptation

Actions to reduce vulnerability to actual and expected changes in climate



Check dams in Thailand



Rainwater harvesting



Rainwater harvesting: 5000L (\$560-740) in Uganda

Inter-Locking Soil Stabilized Bricks (ISSBs) are an environmentally appropriate technology that utilize widely available soils, and are stabilized without the need for burning. ISSBs preserve wetland areas, and productive top soil, while preventing deforestation.



Rainwater Harvesting Tank



Underground Rainwater Harvesting Tank



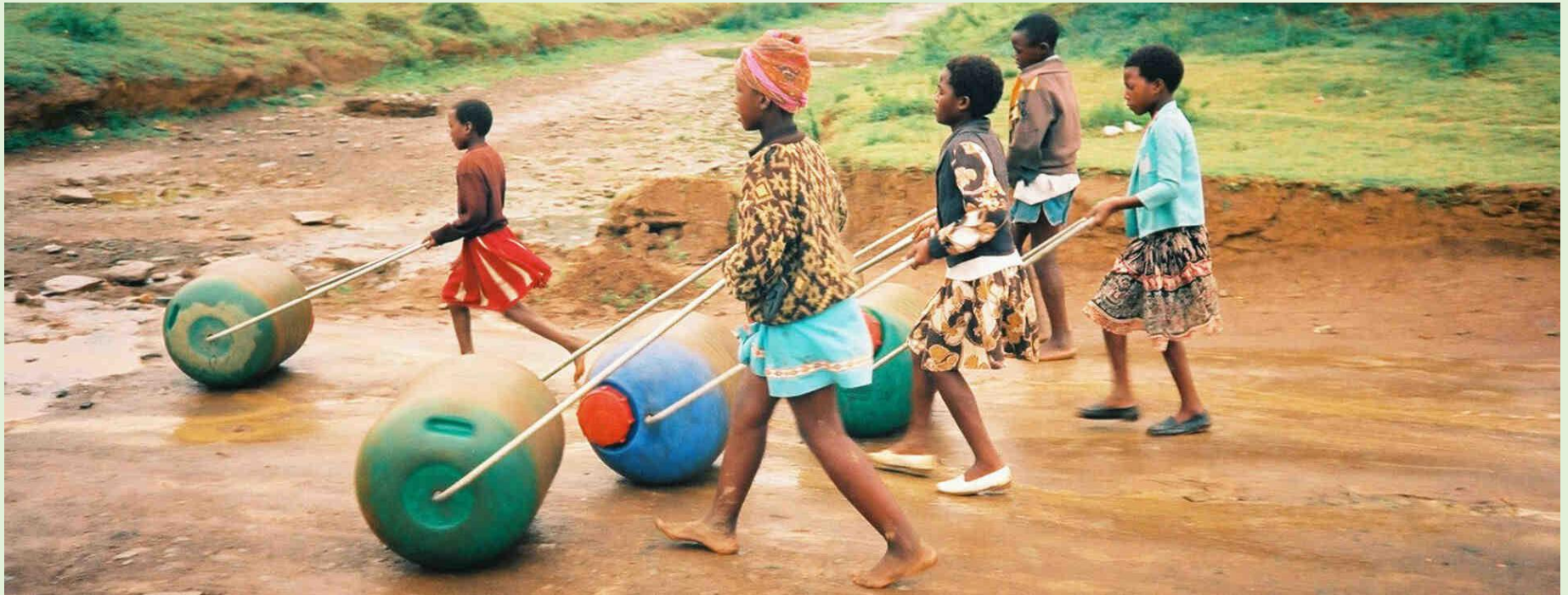
EcoSan Composting Latrine



Brick by Brick Construction. Building community, supporting education, improving infrastructure.

To learn more, visit us at www.brickbybrick.org

Hippo Roller: \$165 (incl. VAT and shipping) from South Africa



Partnership outcomes

- Crowd sourcing website
- A small grants mechanism for PCV's (via PCPP):
 - Adhere to all the guidelines set out for PCPP grant proposals
 - Designed with climate adaptation as a core goal or outcome of the work
 - Conducts on the ground implementation, not research or planning
 - Limit of \$2000 per project
- Training PCV's on climate related issues
- Expenses incurred will be reimbursed via mobile airtime
- Stay in touch at www.facebook.com/wwfclimatecrowd

