



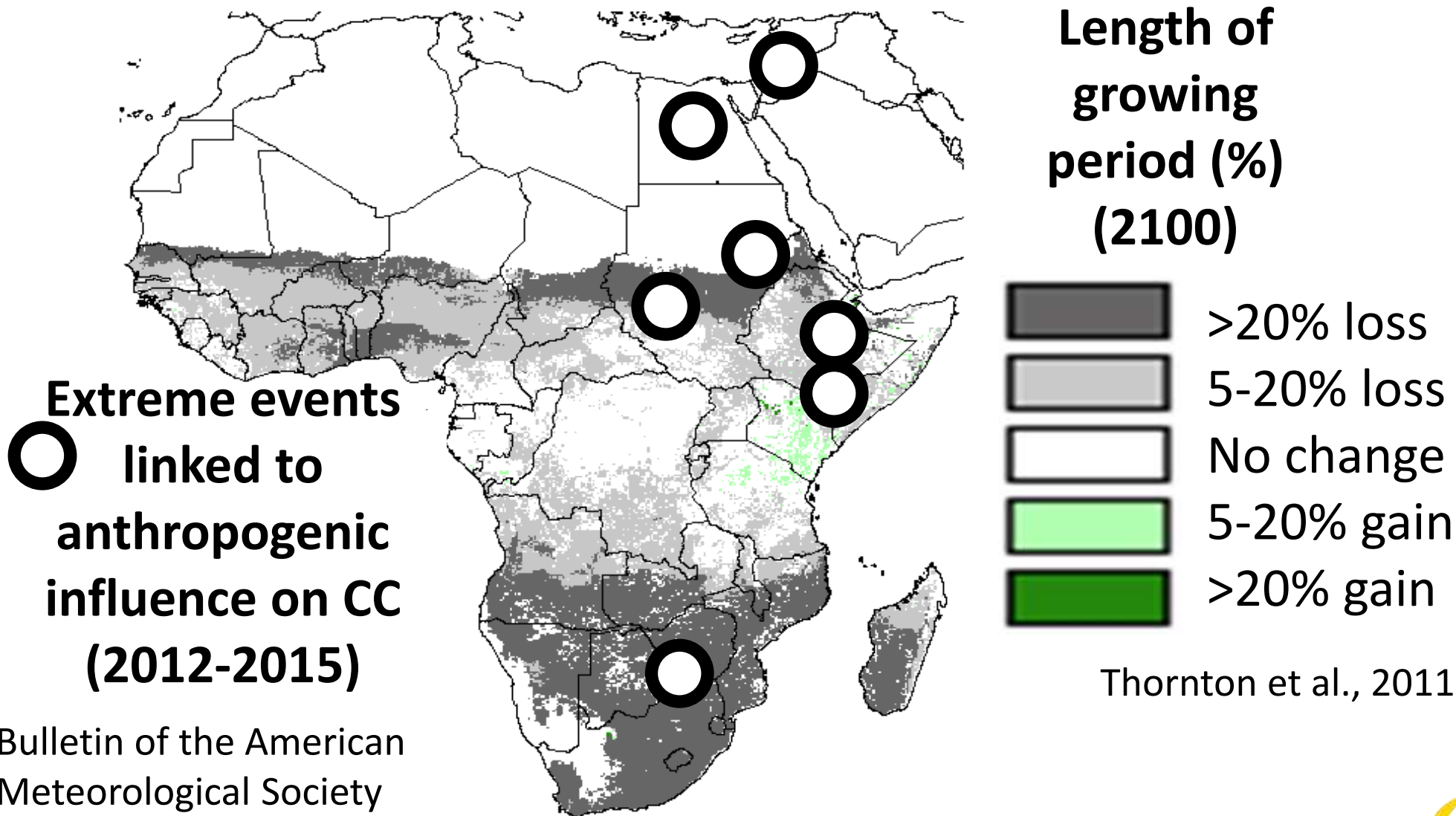
RESEARCH PROGRAM ON
**Climate Change,
Agriculture and
Food Security**



Urgent action needed in the agricultural sector

Bruce Campbell

Agriculture adaptation is crucial



Bulletin of the American Meteorological Society

Urgent mitigation action is needed

By 2030
reduce agricultural GHG emissions
by 1 GtCO₂e/y
to stay below the 2°C limit
and meet future food needs

Wollenberg et al., 2016



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“Adaptation and food security with mitigation co-benefits”

But, where are the Tesla’s of the agricultural world?



Alternate-Wetting-and-Drying (AWD)

Change management and.....



30% water



20-50% GHG

Without compromising yield

Drought tolerant maize

CGIAR + 13 National systems + 91 local seed companies
> 40 million people benefiting

✓ Yields up to
35% more
grain

✓ Reduces need
to use more
land

✓ Resilience
to drought



RESEARCH
PROGRAM ON
Maize



Digital agriculture



Thank you



Scaling Up Agricultural Adaptation through Insurance:

Bringing together insurance, big data and agricultural innovation

14 May 2017 Hilton Bonn, Germany

Register: R.SEPTIVITA@CGIAR.ORG

