

# Emerging research findings: Capacity building

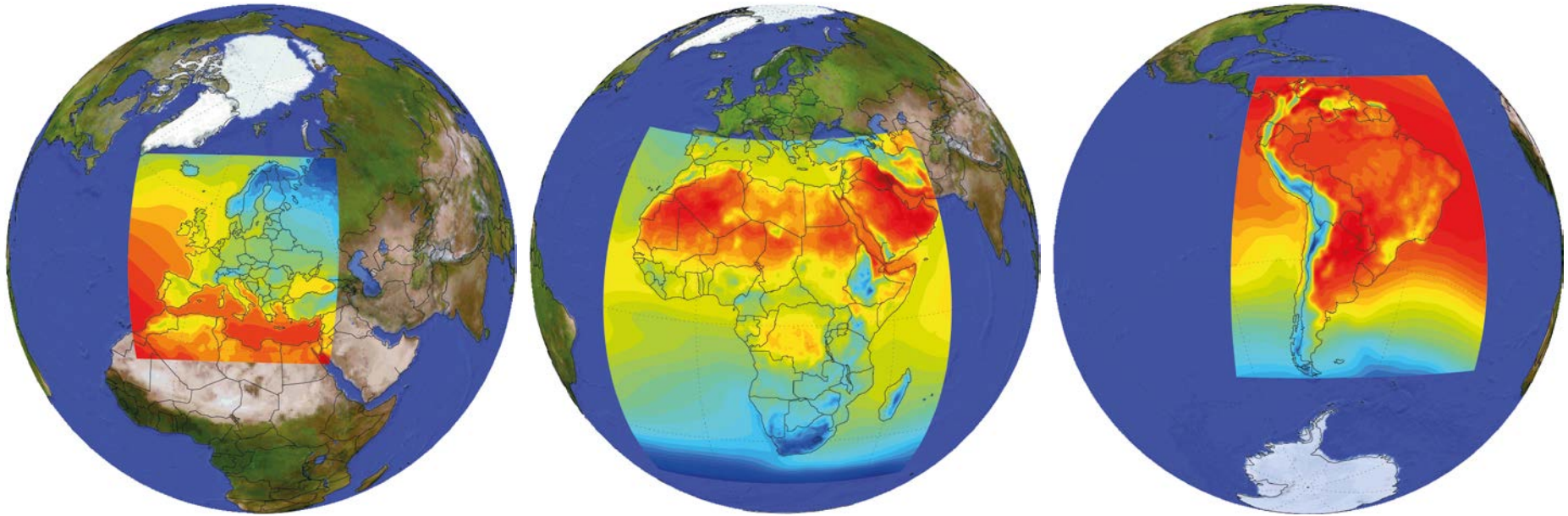
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Anantha K. Duraiappah, Anne Larigauderie, Hassan Virji,  
Pep Canadell, Rik Leemans, Karen Seto, Roberta Boscolo,  
Senay Habtezion, Leisl Neskakis, Barbara Solich

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UNFCCC-SBSTA meeting Bonn  
4 June 2013

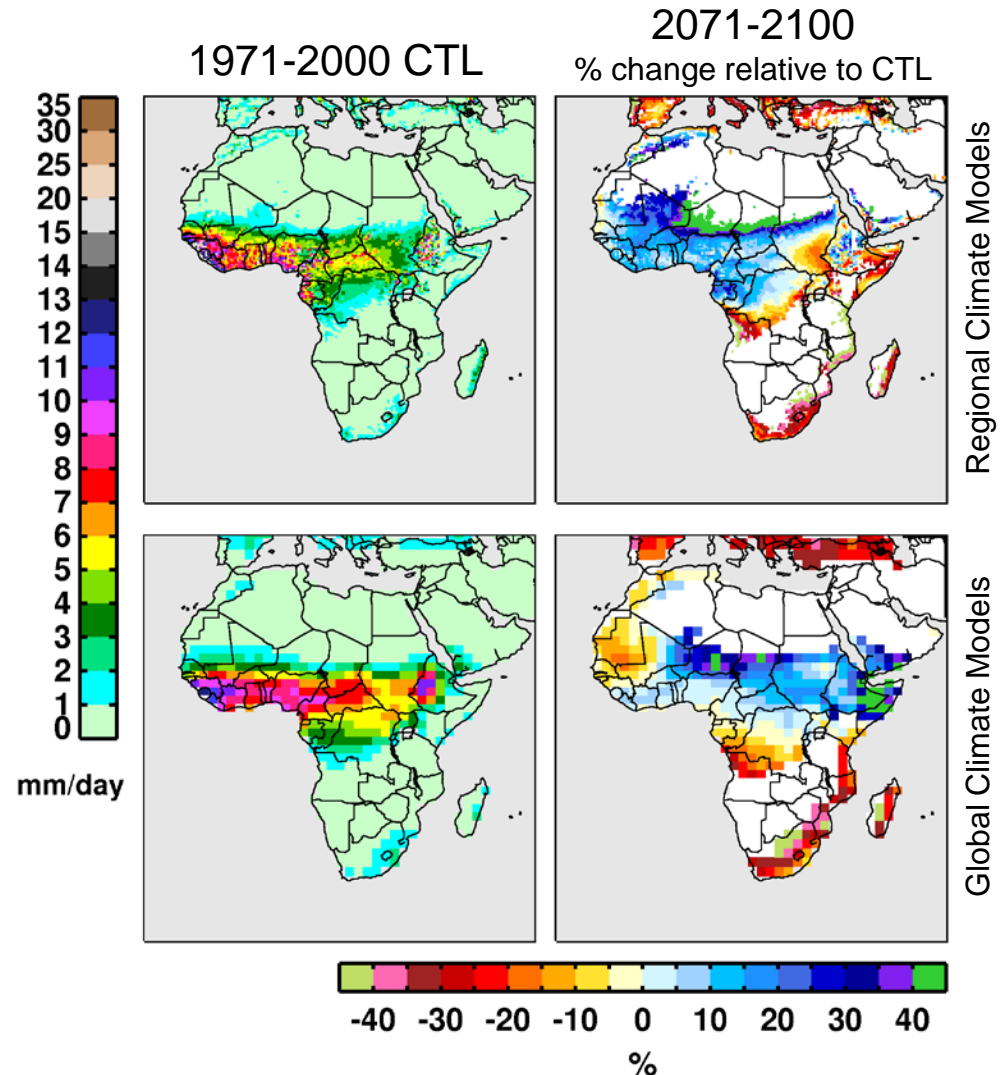
# Regional climate downscaling - CORDEX

- Coordination of regional climate modelling
- Evaluate & improve downscaling techniques
- Support vulnerability, impact, adaptation



# CORDEX - Improved precipitation simulations and scenarios

- July – September
- Regional Models
  - increased resolution  $\approx 50$  km
- Scenario 2071 - 2100
  - high scenario RCP 8.5
  - change in precipitation



# CORDEX training workshops

- East Asia 19 – 24 August 2013 Busan, Korea
- South Asia 27-30 August 2013, Kathmandu, Nepal
- South America 11-13 September 2013, Lima, Perú
- International Conference CORDEX, 4-7 November 2013, Brussels, Belgium

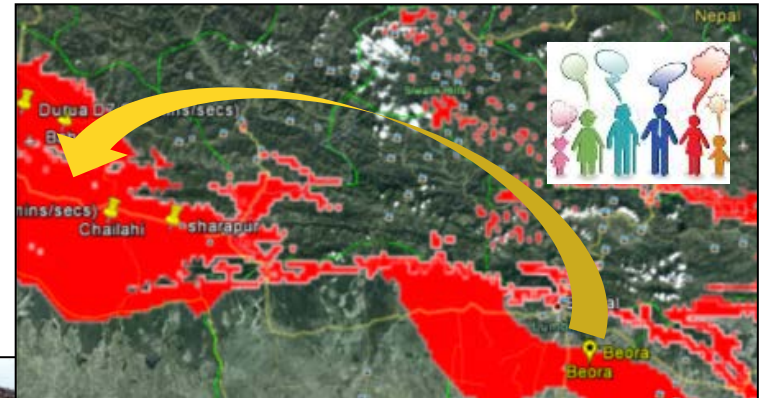
# Climate change, agriculture & food security

Plausible futures - 2030

Downscaling climate scenarios

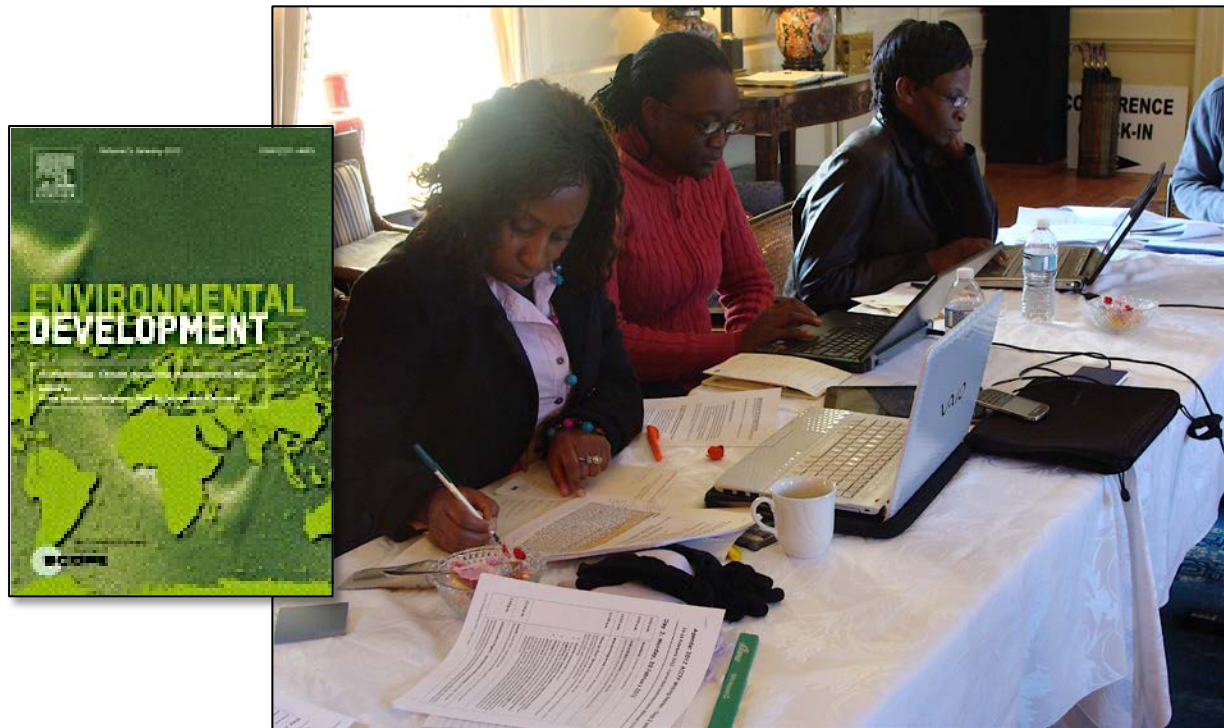
Web-based tool

Adaptation planning



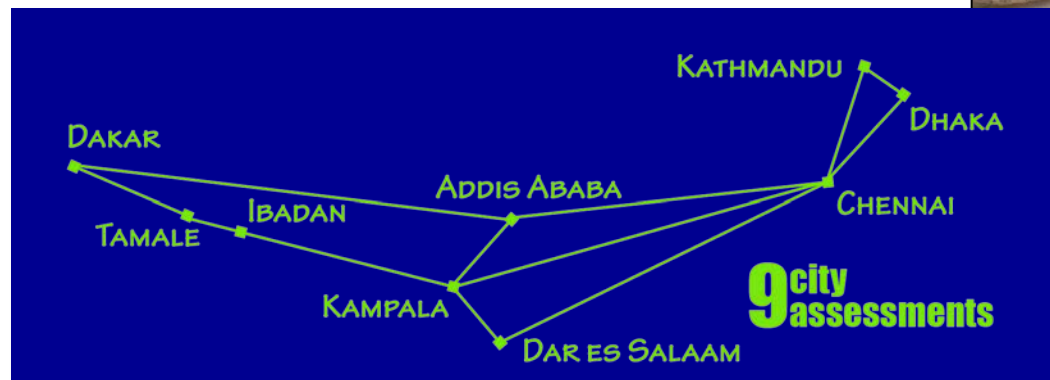
# African Climate Change Fellowship Program

- writing retreat in February
- Special Issue of Env Dev: Climate Change Risk Management in Africa, Vol. 5, (2013)



# Urban/peri-urban agriculture & climate change assessment 9 cities Africa & Asia

- Rapid urban encroachment constraining UPA (land & water resource quality declining, flooding critical risk, sea-level rise could exacerbate water constraints)
- Urban livestock systems intensifying
- Contamination (biological/chemical) major concern
- City governments beginning to take measures



# Emerging research findings: **Capacity building**

Sybil Seitzinger

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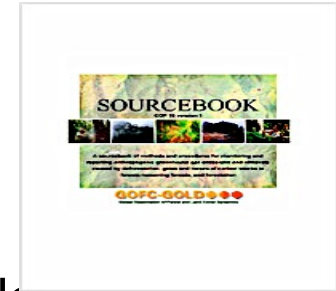
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# Highlight of START Program Activities in 2012-2013

- In 2012-2013, START's programs and projects supported knowledge generation and dissemination that informs policy and decision-making in and across climate-sensitive sectors in Africa and Asia-Pacific. Activities include: -
  - ACCFP writeshop which resulted in a Special Issue of Env Dev: Climate Change Risk Management in Africa, Vol. 5, (2013) 1-182
  - Assessment of urban/peri-urban agriculture and CC across 9 cities in Africa & South Asia (with WMO, IPCC, USAID, UoG, UDSM, BCAS)
  - A pair of workshops on critical information needs for Urban Areas (Feb/March 2013 )
  - Awarded grants to 11 research teams on GEC, Agriculture and Food Security under the Africa Grants Program on GEC;
  - Expanded its Cities at Risk portfolio - first CAR scoping workshop in Durban (March 2013)
  - Advanced Institute on Data for Coastal Cities at Risk (with IRDR – ICoE, IRDR Int.l, ICSU & NCDR)(Oct 2012)
  - Helped develop an innovative Mater of Science in CC and Sustainable development, which began in March 2013 with 48 students; START also facilitating faculty development workshops (April 2013)

## in FOCUS: GOFC-GOLD support



- START involved in capacity building in the developing world through a 3 year grant from NASA on Global Observations of Forest Cover and Land Dynamics (GOFC-GOLD)
  - Example of accomplishments: Extensive use of REDD Sourcebook (GOFC-GOLD, 2010: A sourcebook of methods and procedures for monitoring and reporting anthropogenic greenhouse gas emissions and removals caused by deforestation, gains and losses of carbon stocks in forests remaining forests, and forestation)
- Recent program activities include: -
  - Support for training in Earth Observation data on land cover & fire observations and advanced training on data analysis & application in April/May 2012
  - Similar support for similar GOFC-GOLD events in 6 other countries on forest & land-cover issues