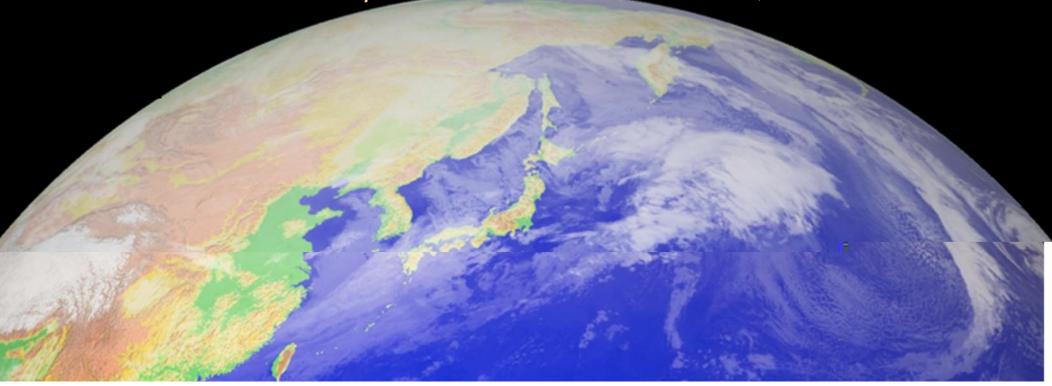
to Climate Change

and translate sound climate science to serve local adaptation needs, to promote sustainable and to reduce human system vulnerability to regional and local climate change.

Caspar Ammann, NCAR

Asia-Pacific Adaptation Forum 2013, March 20, 2013

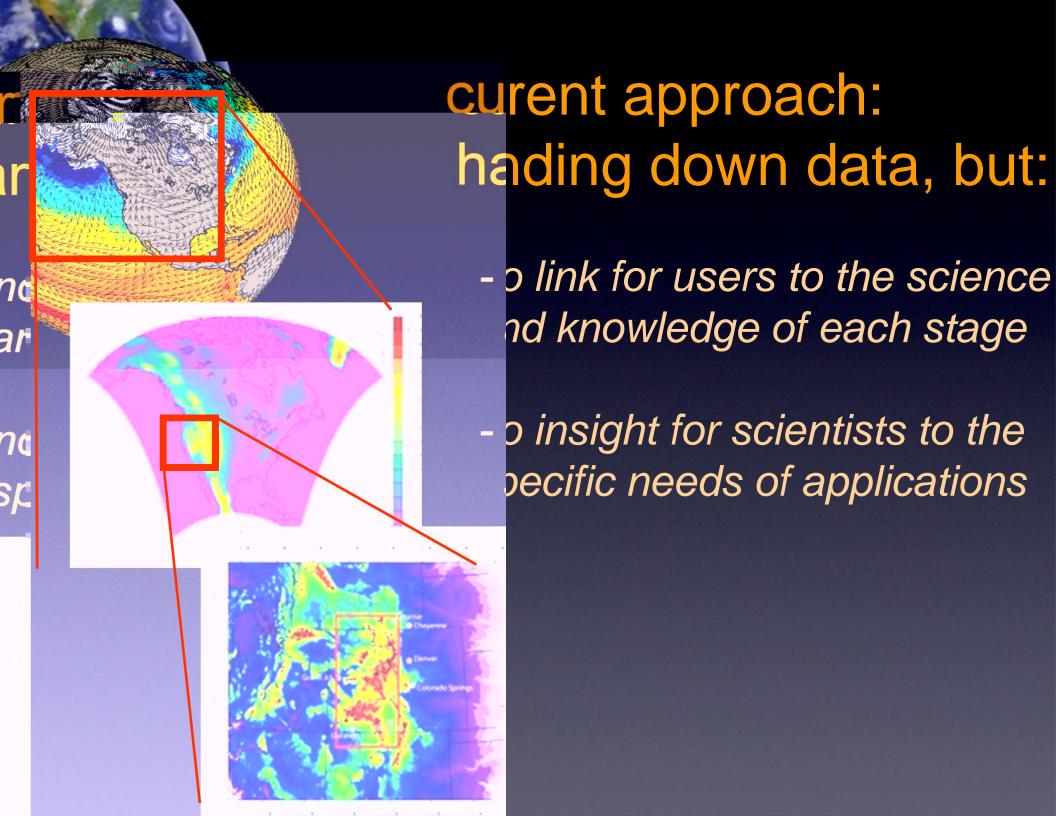


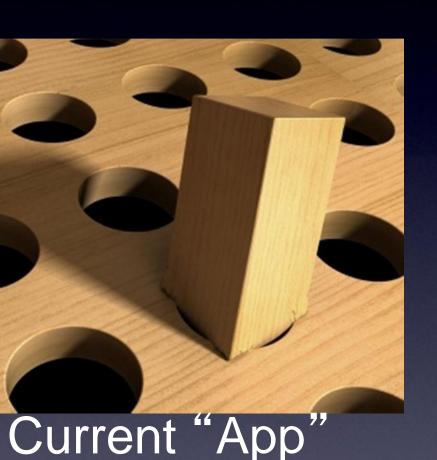
Key Objectives:

1: Usable data access and data transparency andardized evaluation: Application indices and me

Is there an App for Local and Regional Climate Change?



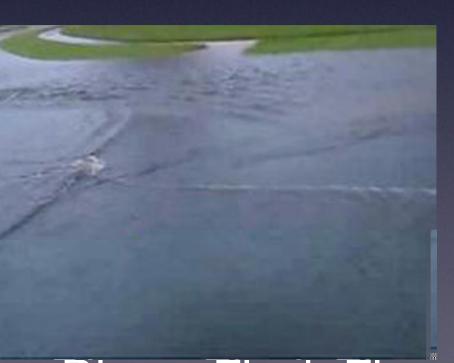




- Data accessibility, in application oriented, useful form (formative resolution)
- Information about the data evaluation across the product "chain" vs observations, ens
- Translation of Scientific
 Knowledge for exploration of impacts of change, guidance
- Community of Practice that collaboratively develops data requirements and scenarios



Gorakhpur: Monsoon



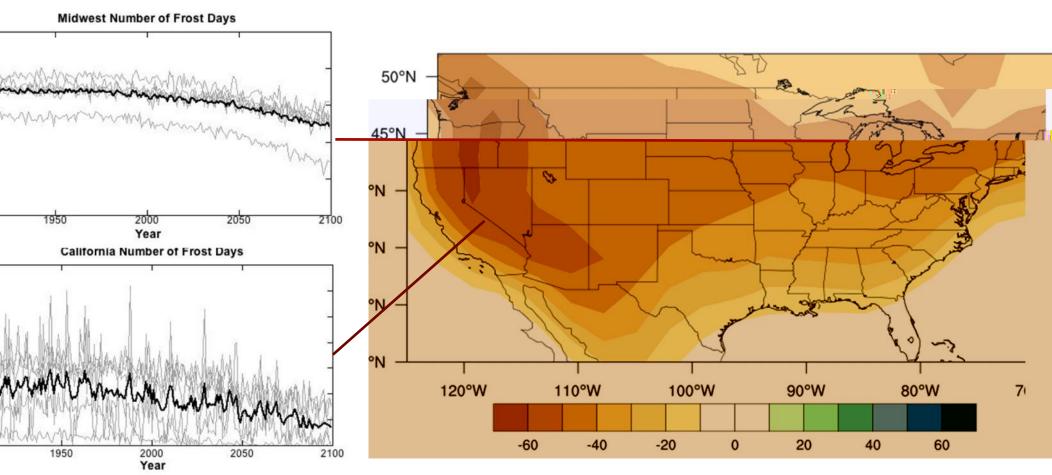


Nebraska : Drough



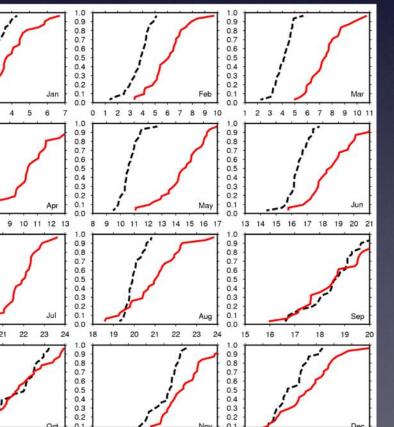
g.: Change in Number of Frost Days across mode





CCSM9 (T85,1.4 deg) GPCP TRMM 1 year 5 years 20 years 100 years 500 years

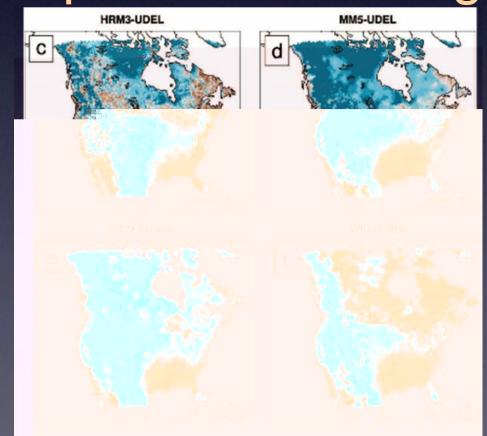
Extremes



Need for Translation and Guidance



Experimental Design



Helping Gorakhpur: "Climbing Everest"



ap: Define climate vulnerabilities ap: Define climate vulnerabilities as e-camp: Get all obs. / other data numbu: Identify relationships

outh-Col: Test models, scenarios

immit: Integrated impact analysis



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eather and climate ices)

n/Coordinate Scenarios various needs

servational Reference

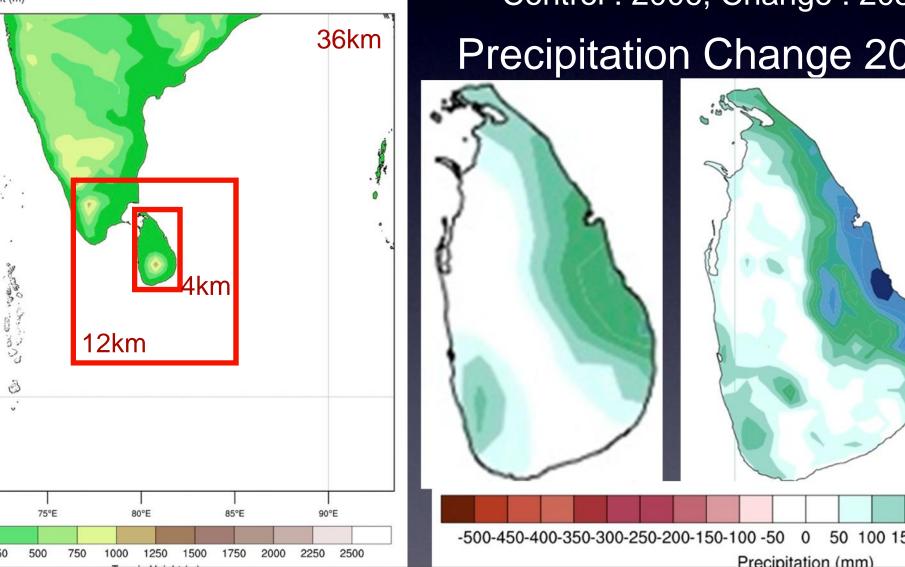




Sri Lanka

(University of Nebraska, Lincoln with United Nations University and NGMRF nested in CCSM4 (CMIP-5) 36km with nested 12km and 4km January 2006 Control: 2006, Change: 2050 (ongoing

Precipitation Change 2050s vs 2



50 100 150 200 250 300 350

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Coordination

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servational Reference

Translation/Librariar

Embedding local application knowled

- Data: User-Oriented Products
 Indices: identification, design, development
- Data Evaluation Capability quality control, characteristics, and user guion uncertainties and use
- Translation/Adaptation Guidano Explain Data in Adaptation Context
- Community of Practice identify data requirements, design scenarios

Bridging science to local needs

"The timely production and delivery of useful climated data, information and knowledge to decision makers" (NRC, 2001)

"Give me information in such a way that I can make decisions local level. What does this mean for me in the next N years'

- Jargon-free, clear,
 - actionable,
- expose the uncertainties
- Science-brokers/translators are important (Pew Report "Lost in Translation")

"Official" climate products & processes allow planners to make major, climate-informed, infrastructure decisions



Thanks