Workshop on Quantitative Evaluation of Downscaling August 12-16, 2013

http://earthsystemcog.org/projects/downscaling-2013/

NCPP Core, Technical and CSAT teams
Galia Guentchev

MAPP webinar, November 15, 2013

Objectives of Workshop

* Bring different **communities** together
* Present and discuss elements of a Quantitative **Evaluation** framework of downscaled climate data
  * From framework to standard
* Discuss the needs and types of supporting information needed to **translate** digital climate data for use in applications
* Establish applications **working groups**
  * Water resources, Agriculture, Human Health, Ecological impacts

Workshop Organization

Monday

Tuesday

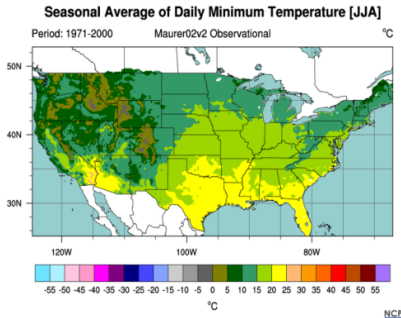
Wednesday

Thursday

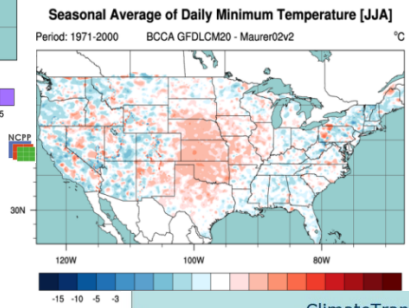
Friday

Day 1

- Introduction of NCPP framework and capabilities
  - Evaluation framework – Protocols and Metrics
  - Evaluation infrastructure – **Earth System Grid node stored comparisons, Metadata capabilities, Climate Translator and OCGIS, CoG environment**
- Observational data – inter-comparisons discussion



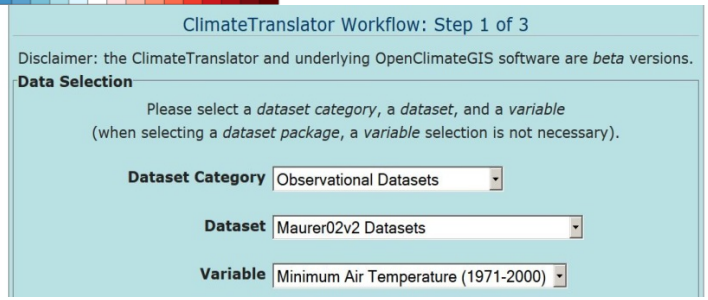
Observational data evaluation



Available through CoG Advanced search

ESG stored downscaled data comparisons

Regional and local data provision available through Climate Translator + Open Climate GIS



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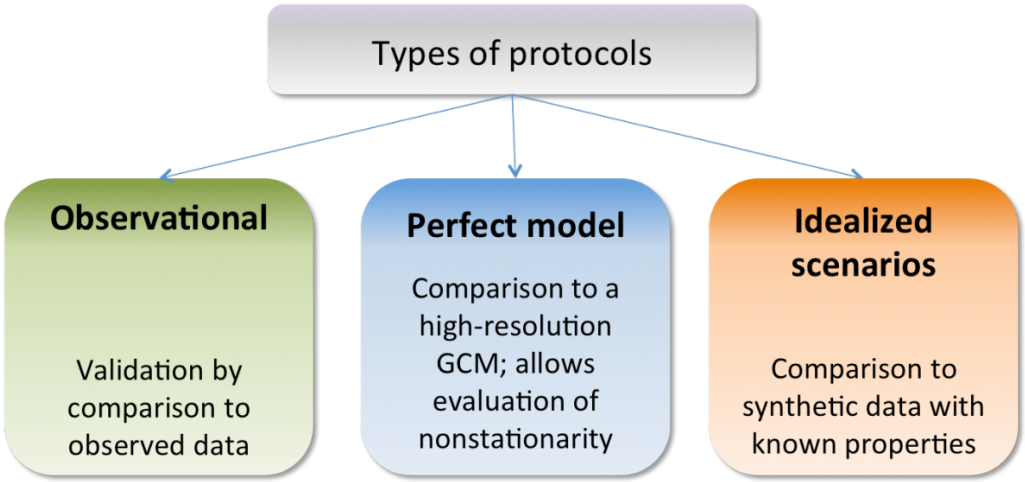
Days 2 and 3 – Downscaling evaluation

- Downscaling – methods and evaluations; **Perfect model experiments**
- Applications working groups – Experiences, challenges in use of climate data



http://earthsystemcog.org/projects/downscaling-2013/protocols

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Days 4 and 5 – Translation for Applications

- Applications working groups – gaps and needs for translation and guidance
- Wrap up and next steps – audience, activities, needs and gaps

Nutrition Facts

Serving Size 1 cup (228g)
Servings Per Container 2

Amount Per Serving

Calories 250 Calories from Fat 110

	% Daily Value*
Total Fat 12g	18%
Saturated Fat 3g	15%
Trans Fat 3g	
Cholesterol 30mg	10%
Sodium 470mg	20%
Total Carbohydrate 31g	10%
Dietary Fiber 0g	0%
Sugars 5g	
Protein 5g	

Vitamin A	4%
Vitamin C	2%
Calcium	20%
Iron	4%

* Percent Daily Values are based on a 2,000 calorie diet. Your Daily Values may be higher or lower depending on your calorie needs.

	Calories	2,000	2,500
Total Fat	Less than	65g	80g
Sat Fat	Less than	20g	25g
Cholesterol	Less than	300mg	300mg
Sodium	Less than	2,400mg	2,400mg
Total Carbohydrate		300g	375g
Dietary Fiber		25g	30g

OUTCOMES – Building and Supporting Community

* The participants identified the "target audience" for NCPP efforts
  * The sophisticated users and early adopters from **boundary organizations** such as RISAs, CSCs, USDA hubs, extension agents, NGOs
* "Do not do this alone - Find partners!"

OUTCOMES –Evaluation and Data

* How good are the data for my region and application? What are the best choices of downscaled data for my application?
  * What can NCPP do for you?
* **Full product stream**
  * Observed, GCMs, and downscaled climate model data and indices – access, metadata, historical evaluations and inter-comparisons
  * Ensembles of downscaled future projections
  * Uncertainty descriptions

OUTCOMES - Translation

* Structured guidance on downscaled data with highest credibility for an application and area - **Practitioner's guide**
  * How to choose a stable ensemble?
  * "Nutrition label" summaries
* Tiers of translational information for various users

NCPP

Workshop website

http://earthsystemcog.org/projects/downscaling-2013/

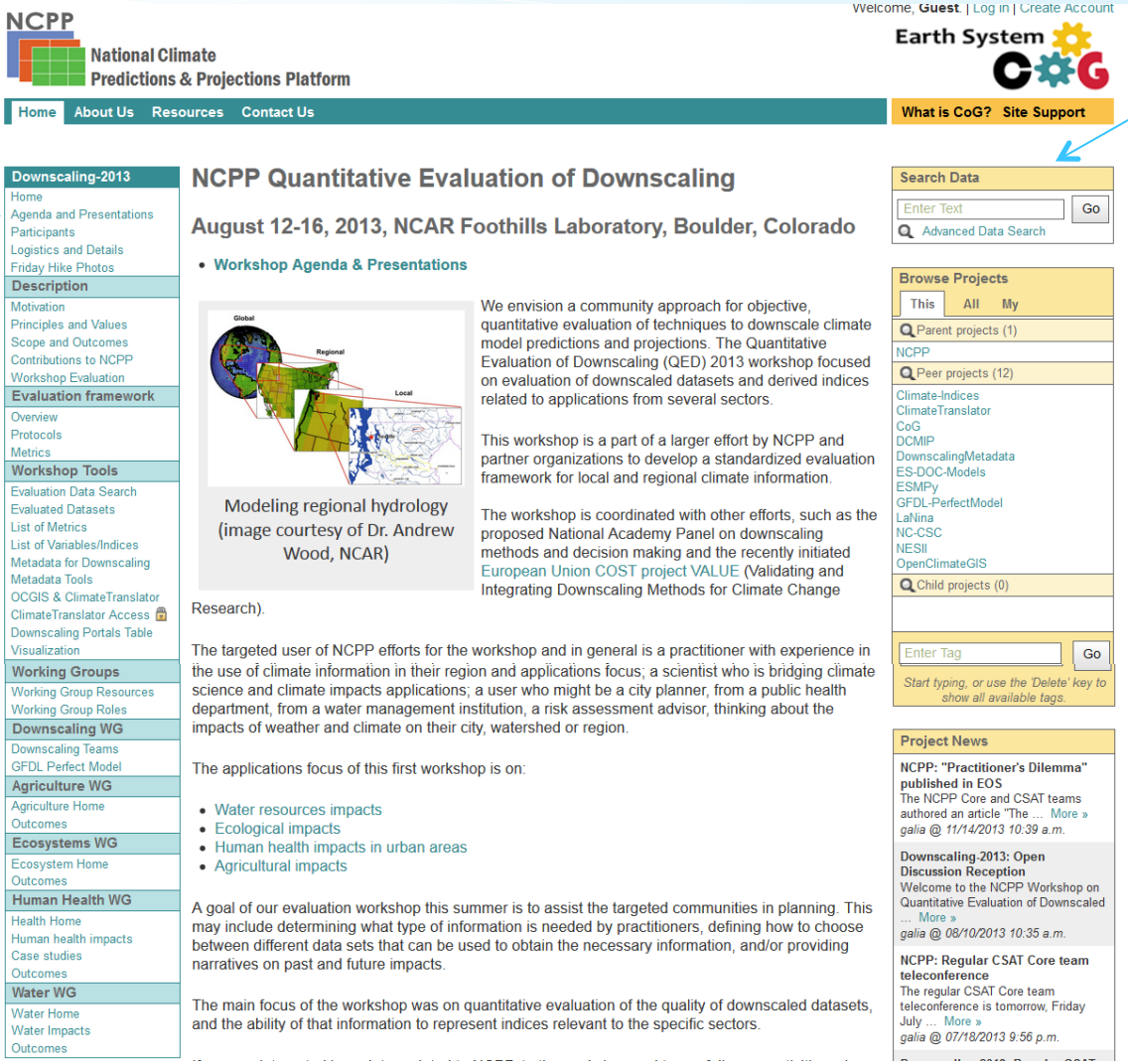
Agenda

Evaluation of workshop

Workshop tools

Working groups outcomes

Advanced search of evaluations



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