

# Societal Dimensions Working Group

Breckenridge

June 20, 2013

# SDWG Meeting Introduction

## Today's Agenda

- Scenario process and CMIP6

- Submitted talks on SDWG topics, ongoing and new

## Latin America Modeling Project

- WG participation in IAM activity, regional land use

- SDWG documentation of code development protocol

- Testing model linkage; development of interface standards

## EaSM2 projects

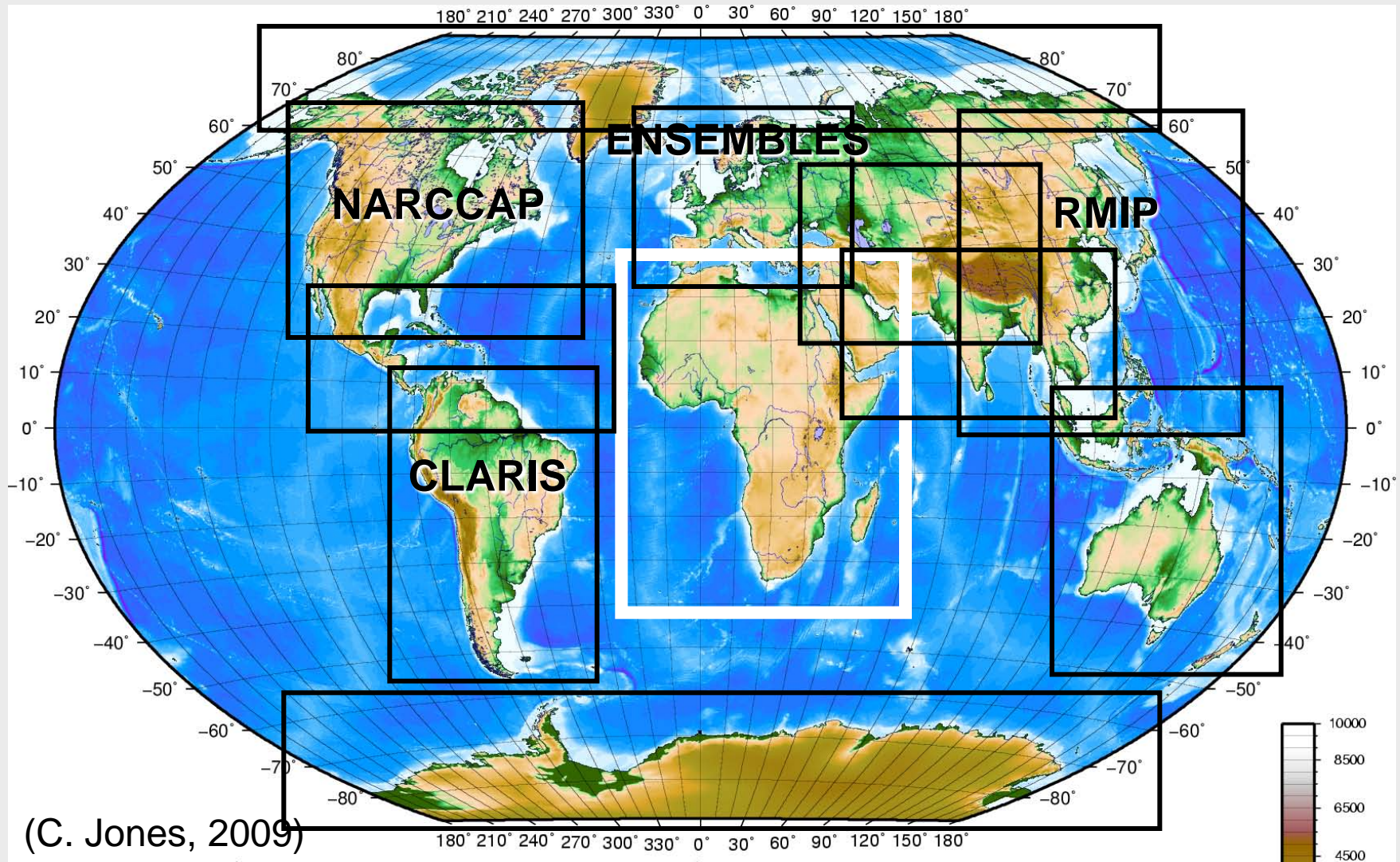
- Water metrics – see SDWG poster

- THESIS tools and ag/urban impacts

## iESM project

# CORDEX (CMIP for regional downscaling)

- Linking climate modeling with decision makers
- Ongoing planning, meeting with agencies, meeting Friday



# Charge to SDWG

Marika Challenge to WGs: Modify the CESM2 Implementation Plan to reflect goals of the CESM community

Draft priorities for CESM2 development:

1. **Small scale phenomena in all components, and their interactions**
  1. Excellent idea – scale of meso-scale wx phenomena
  2. Variable resolution considered important
  3. Issue of internal variability on all time/space scales –
    1. will this require larger ensembles to assess Internal variability
    2. Identify which scales/regions where the variability is larger
2. Improved projections of sea level rise
  2. Critical to societal impacts , what about total rise with extreme events (SLR + Storm surge + tides...)
3. More complete biogeochemical cycles
4. **Climate/human system interactions**
  4. Physically credible/understood storylines
  5. Need to identify the human systems that feed back to the Climate system (e.g. Land use change, aerosols, short-lived climate forcers)
  6. Metrics and variables that are important to decision makers
  7. Ensure consistency in human dimension throughout the model (e.g. Population, land use...)
  8. Need better uncertainty assessment
5. Near-term climate prediction
  5. Very important for societal planning (water etc)
  6. Desperate need to understand better decadal scale variability

Should there be other key goal to reflect SDWG needs?

What gets filled in behind the key goals for SDWG needs?

How do they promote SDWG goals?

Brief 30-minute discussion during break to build list for Marika