NARCCAP
North American Regional Climate Change Assessment Program

Multiple AOGCM and RCM Climate Scenarios Project over North America

Participants

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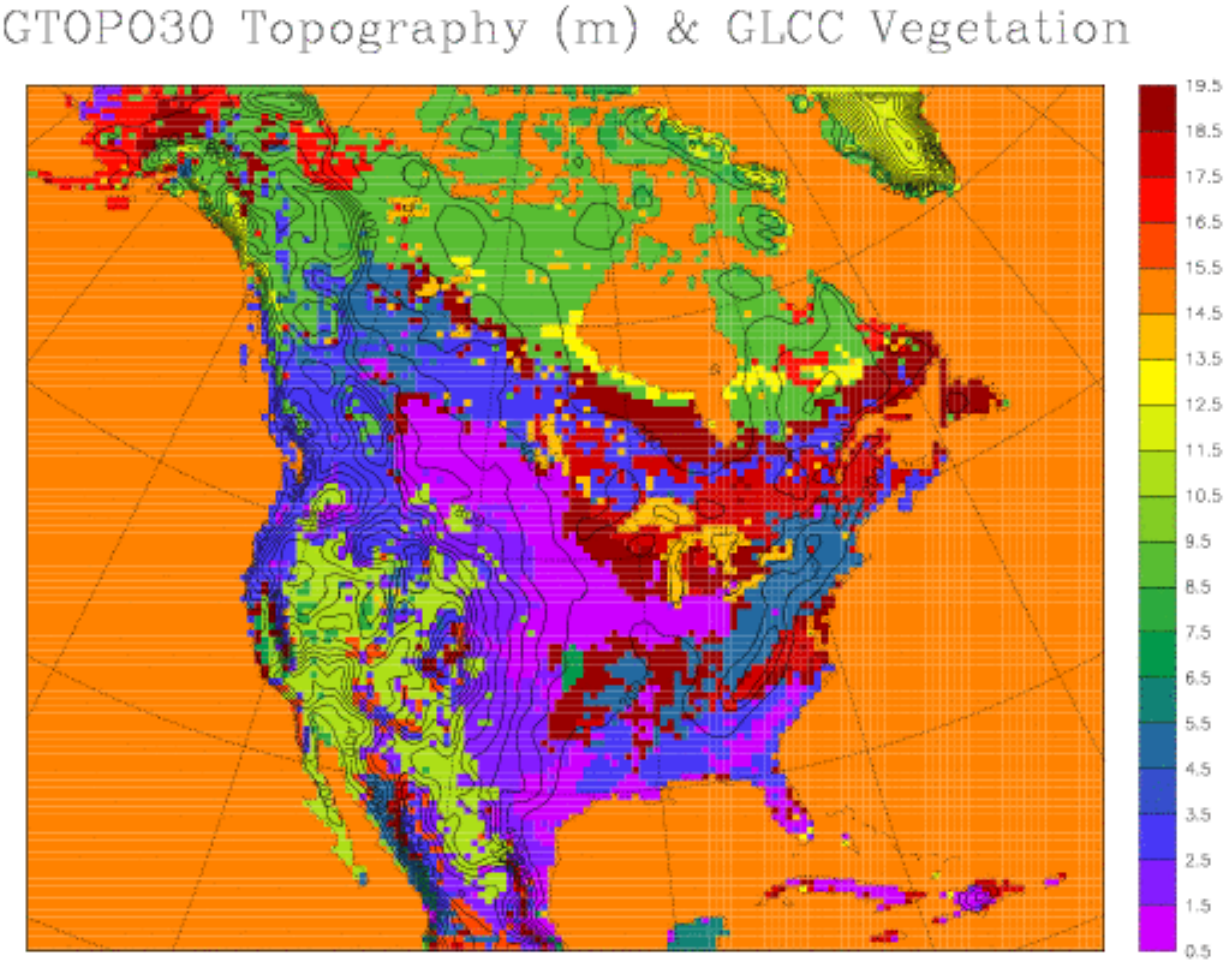
NARCCAP Goals

1. Exploration of multiple uncertainties in regional model and global climate model regional projections,
2. Development of multiple high resolution regional climate scenarios for use in impacts assessments,
3. Further evaluation of regional model performance over North America;
4. Exploration of some remaining uncertainties in regional climate modeling (e.g., importance of compatibility of physics in nesting and nested models).
5. Creation of greater collaboration between US and Canadian climate modeling groups, as well as with the European modeling community

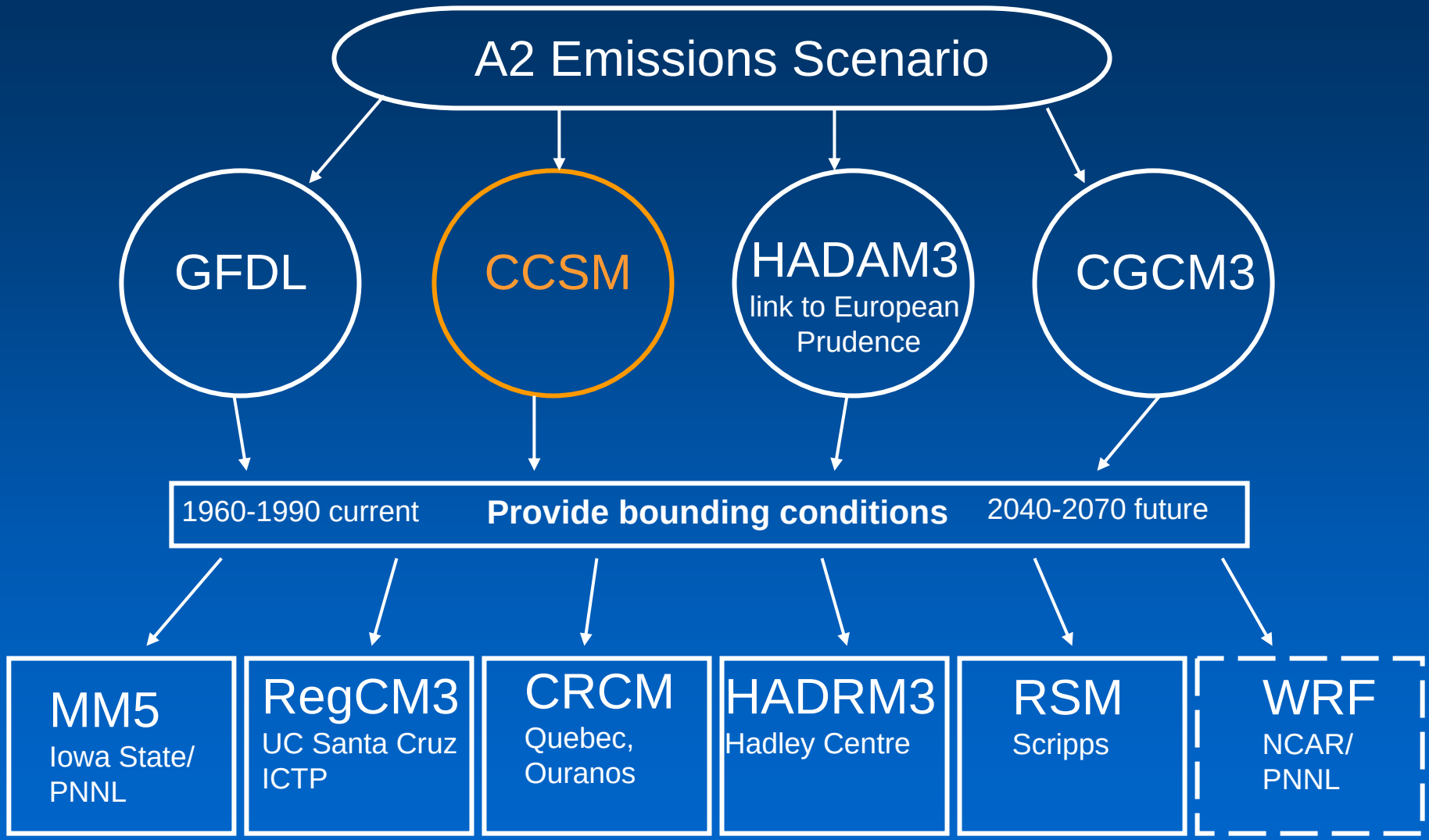
NARCCAP domain



Organization of Program

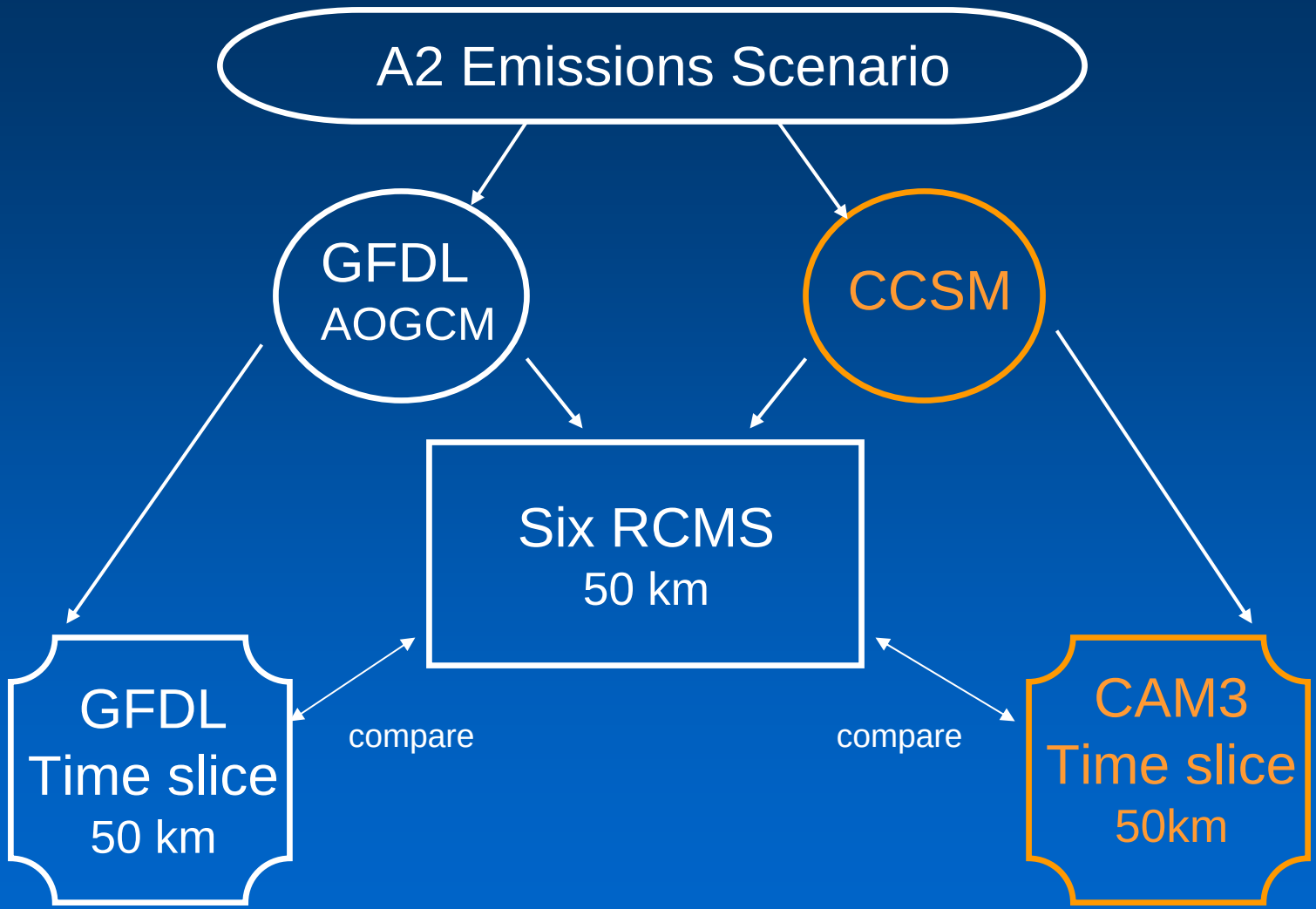
- Phase I: 10-20 year simulations using NCEP boundary conditions (led by Iowa State/PIRCS [link to PIRCs and reanalysis experiments goes here]) – provision of boundary conditions, data storage, initial RCM performance evaluation with major participation of each RCM group).
- Phase IIa: RCM runs (50 km res.) nested in AOGCMs – managed by LLNL [web link eventually] with strong participation of PIRCS.
- Phase IIb: Time-slice experiments at 50 km res. For comparison with RCM runs (GFDL and LLNL running NCAR CAM3).
- Opportunity for double nesting (over specific regions) to draw in other RCM groups e.g., for NOAA OGP RISAs.

NARCCAP PLAN



Global Time Slice / RCM Comparison

at same resolution (50km)



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