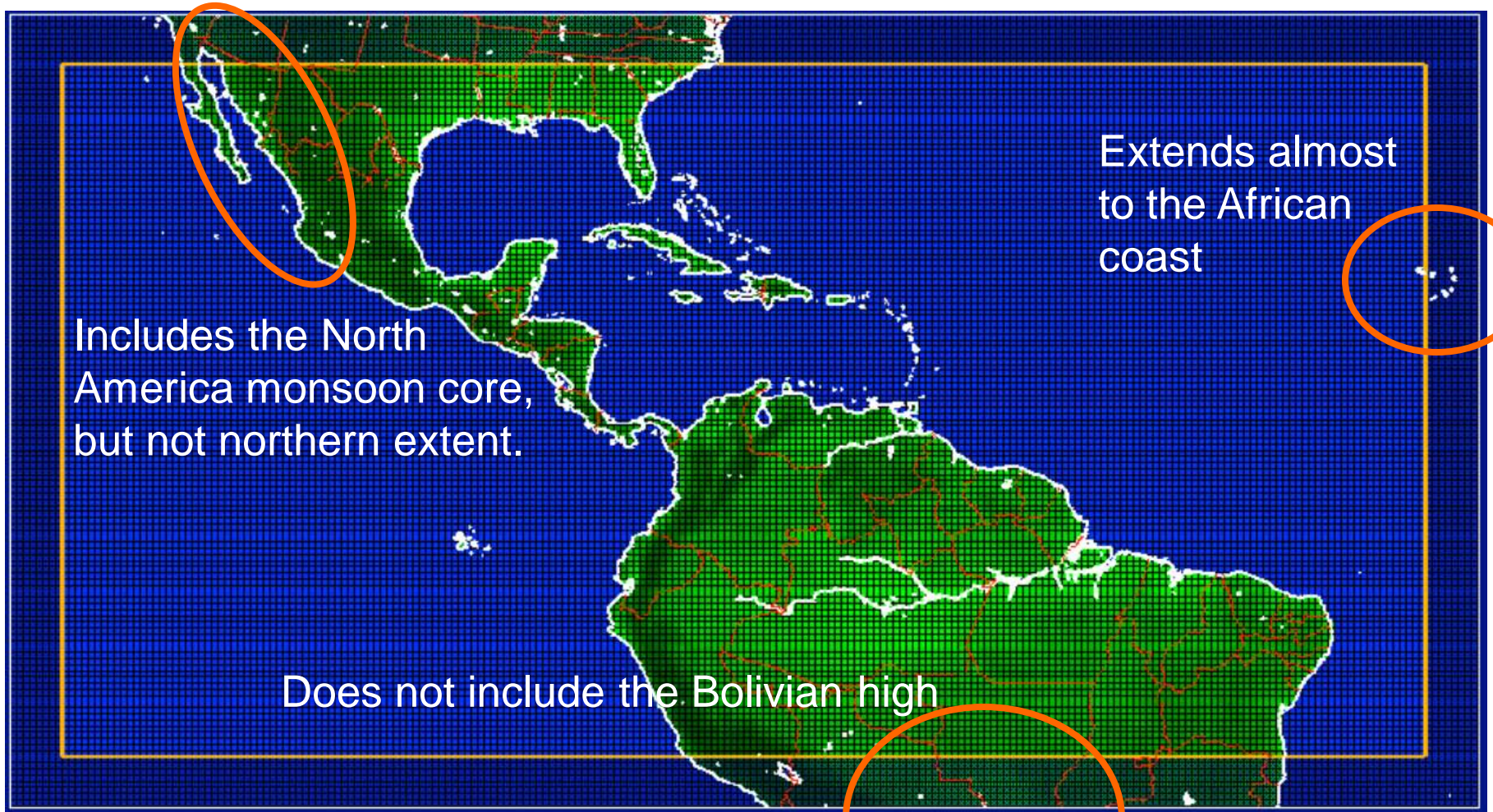


Synthesis of regional downscaling efforts and implications for American Monsoon research

Raymond Arritt

Iowa State University, Ames, Iowa USA

CORDEX Central America domain



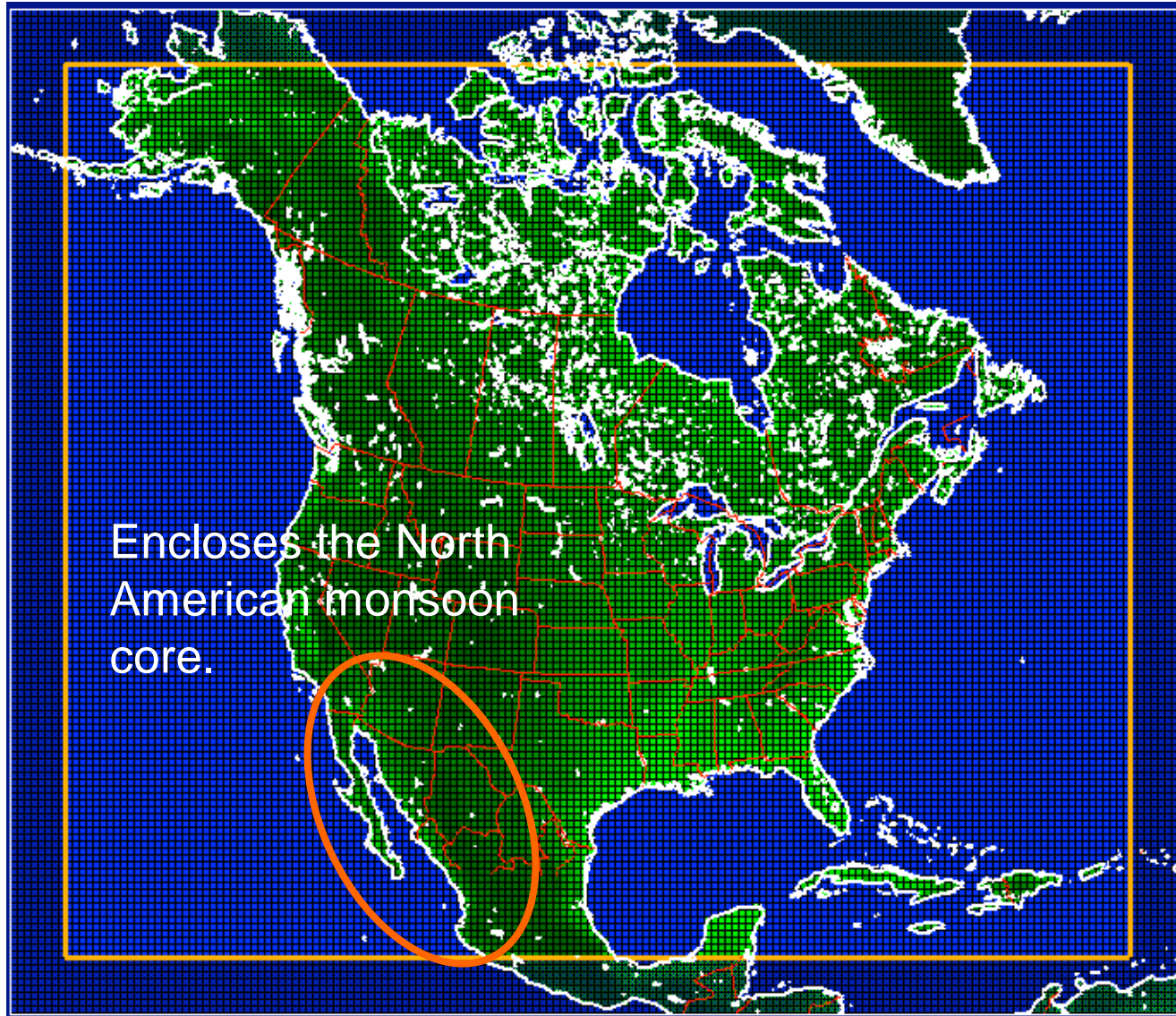
CORDEX South America domain



parts of the continent are
close to the boundaries

SACZ

CORDEX North America domain



CORDEX subgroups

- Groups working with a given model:
 - CORDEX-WRF: modelers using versions of WRF for CORDEX domains. Web site at <http://www.meteo.unican.es/wiki/cordexwrf>
 - RegCM: No formal coordination, but core group at ICTP has tested the model over multiple CORDEX domains. (Published in Giorgi et al. 2012, Climate Research)

CORDEX subgroups

- Regional groups:
 - Med-CORDEX (Mediterranean region) supported by HyMeX and MedCLIVAR
 - Euro-CORDEX, <http://www.euro-cordex.net/>
 - CORDEX-East Asia workshop held September 2011
 - Polar-CORDEX meeting in Sweden March 2012 (J. Cassano)
 - South Asia (workshop Feb 2012)
 - South America: outgrowth of CLARIS-LPB (S. Solmon)
 - No multi-institutional organization for N. America or Central America

CORDEX Central America domain

- Several groups are active or have plans for simulating the Central America / Caribbean domain:
 - State University of Ceará (A. Costa, RAMS)
 - ICTP (F. Giorgi, “together with groups in Brasil and Mexico”; RegCM4)
 - UK Met Office (W. Moufouma-Okia, HadGEM3-RA)
 - CSIRO (J. Katzfey, CCAM)
 - SMHI (?)
 - Iowa State Univ (R. Arritt, RegCM4)
- There is an opportunity for VAMOS to lead coordination of regional modeling over the Central America / Caribbean domain and influence the direction of analysis. (ICSU grant?)