Land–Atmosphere Interactions Exhibited by Coupled Carbon–Cycle Climate Models Forrest Hoffman, Peter Thornton, Inez Fung, and W. Mac Post *Oak Ridge National Laboratory,*National Center for Atmospheric Research, and *University of California at Berkeley

Introduction

Three different biosphere models are running within the NCAR Community Climate System Model (CCSM) and will be the subject of an upcoming Biogeochemistry Model Intercomparison Project. CN, a coupled carbon-nitrogen cycle module, has been coupled to the Community Land Model Version 3.0 (CLM3). CASA', a biogeochemistry module based on the Carnegie-Ames-Stanford-Approach (CASA) Biosphere Model, has also been coupled to CLM3. IBIS, a whole biosphere model, has been coupled to CCSM. Initially, these models will be used to carry out experiments under the Coupled Climate/Carbon Cycle Model Intercomparison Project (C4MIP) Phase 1 protocol. Presented here are preliminary results from these models.



Live fraction of carbon is 28.3%.







