

carbon exchange and at what scale these drivers operate.

average fluxes across North America.

# **Biospheric Models Examined\*:**

Simple Biospheric Model (SiB) version 3.0: 3-hourly resolution.

\* All fluxes were a spatial resolution of 1 degree by 1 degree.



Biome Classification based on Olson et al. 2001 and the World Wildlife Fund. Similar biome regions were used in CASA and SiB. VPRM used the vegetation classes defined by the MODIS product from the International Geosphere Biosphere Program (IGBP).

P.P. Tans, "An atmospheric perspective on North American carbon dioxide exchange: Carbon-

revised land surface parameterization (SiB2) for atmospheric GCMs. Part-I: model formulation," Journal of Climate, 9, pp. 676-705, 1996.