

Model	Expanded name	N cycle	References
CABLE	CSIRO Atmosphere Biosphere Land Exchange model	No	Kowalczyk et al. (2006), Wang et al. (2011)
CLM45-ORNL	Version 4.5 of the Community Land Model	Yes	Oleson et al. (2013)
DLEM	Dynamic Land Ecosystem Model	Yes	Tian et al. (2011, 2015)
DOS-TEM	Dynamic organic soil structure in the Terrestrial Ecosystem Model	Yes	Yi et al. (2010), McGuire et al. (1992)
JSBACH	Jena Scheme for Biosphere–Atmosphere Coupling in Hamburg	No	Kaminski et al. (2013), Reick et al. (2013)
JULES	Joint UK Land Environment Simulator	No	Best et al. (2011), Clark et al. (2011)
LPJ-GUESS	Lund–Potsdam–Jena General Ecosystem Simulator	Yes	Smith et al. (2001), B. Smith et al. (2014)
LPJmL-V3.5	Lund–Potsdam–Jena managed Land	No	Bondeau et al. (2007)
ORCHIDEE-2	Organizing Carbon and Hydrology in Dynamic Ecosystems (2 soil layers)	No	Krinner et al. (2005)
ORCHIDEE-11	Organizing Carbon and Hydrology in Dynamic Ecosystems (11 soil layers)	No	Krinner et al. (2005)
T&C	Tethys–Chloris	No	Fatichi et al. (2012, 2016)
TECO	Process-based Terrestrial Ecosystem model	No	Weng and Luo (2008)
TRIPLEX-GHG	An integrated process model of forest growth, carbon and greenhouse gases	Yes	Peng et al. (2002), Zhu et al. (2014)
VISIT	Vegetation Integrative Simulator for Trace gases model	No	Inatomi et al. (2010), Ito (2010)