## Rules for scoring system

Score	Certainty of data	Scale appropriateness and coverage	Overall importance of constraint or
			process
1	Uncertainty estimates not available;	Site level observations with limited	Observations that have limited influence
	significant methodological issues may	regional coverage and/or short	on carbon cycle processes; includes some
	influence data quality	temporal duration	driver datasets and land surface
			measurements (e.g., Lin)
2	Uncertainty estimates not available;	Partial regional coverage; data sets	Driver observations or land surface
	some methodological issues may	providing up to 1 year of coverage	measurements that have direct influence
	influence data quality		on carbon cycle processes (e.g., PPT, Tair,
			and Sin)
3	Uncertainty estimates not available;	Regional coverage for at least 1 year;	Biosphere process that contributes to carbon
	some peer-review evaluation of	mismatches may exist between site-	dynamics; data are a useful constraint for thi
	quality; minor methodological issues	level and model grid cells	specific process
	may remain		
4	Qualitative uncertainty information	Important regional coverage; at least 1	Important biosphere process regulating
	available from peer-review	year or more of observations	carbon cycle dynamics; data are
	evaluations; methodology is well		moderately well-suited for constraining
	accepted		this process
5	Well defined and traceable	Global scale in coverage; time series	Critical process or constraint regulating
	uncertainty estimates; relatively low	spanning multiple years; data products	climate-carbon or carbon-concentration
	uncertainty estimates relative to range	appropriate in scale for comparing	feedbacks; data are well suited for
	of model estimates; uncertainties less	directly with model grid cells	discriminating among different model
	than $\pm 20\%$ at regional scales		estimates