

Extended Data Table 2 | Compilation of published estimates of emissions associated with anthropogenic land-cover change and land management until present (industrial and pre-industrial)

Reference	Land management activities considered	Cumulative emissions
Total cumulative emissions from land use		
DeFries et al., 1999 ⁶¹	-	182-199
Strassmann et al., 2008 ⁶²		233
Olofsson and Hickler, 2008 ⁶³	Crop harvest	194-262
Pongratz et al., 2009 ⁶⁰	=	171
Kaplan et al., 2010 ²⁰ , Hyde 3.1 based*	_	137-189
Kaplan et al., 2010 ²⁰ , KK10 based*	Land-use intensity, shifting cultivation	325-357
Stocker et al., 2014 ⁶⁴	Wood and crop harvest, tillage, shifting cultivation	243
This study, FRA- and Pan-based	Top-down, all activities	431-469
This study, inner quartiles of 42 estimates	Top-down, all activities	375-525

Note that most model-based results include fluxes from soils and wood products. Datasets are from refs 20, 60–64.

^{*}Pre-industrial emissions only.