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Supplement of

Modeling vegetation and carbon dynamics of managed grasslands at the global scale with LPJmL 3.6

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S1 Maps of default option D

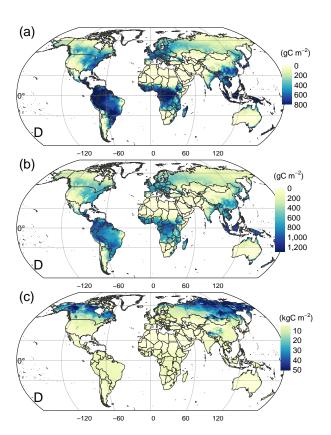


Figure S1. Simulation results for option D averaged over 1998 to 2002, a) grass harvest (gC m $^{-2}$), b) NPP (gC m $^{-2}$) and c) soil carbon (kgC m $^{-2}$).

S2 Maps of moving option M

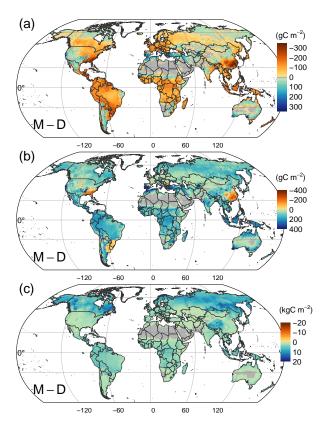


Figure S2. Simulation results for option M averaged over 1998 to 2002, a) grass harvest difference to option D (gC m $^{-2}$ a $^{-1}$), b) NPP difference to option D (gC m $^{-2}$ a $^{-1}$) and c) soil carbon difference to option D (kgC m $^{-2}$).

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S3 Maps of daily grazing option G_D

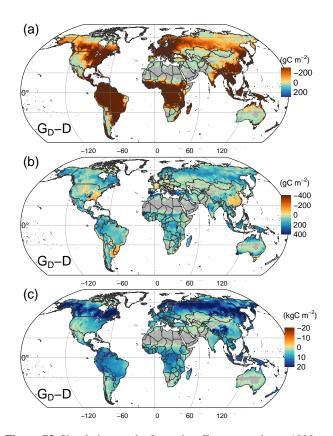


Figure S3. Simulation results for option G_D averaged over 1998 to 2002, a) grass harvest difference to option D (gC m $^{-2}$ a $^{-1}$), b) NPP difference to option D (gC m $^{-2}$ a $^{-1}$) and c) soil carbon difference to option D (kgC m $^{-2}$).

S4 Maps of rotational grazing option G_R

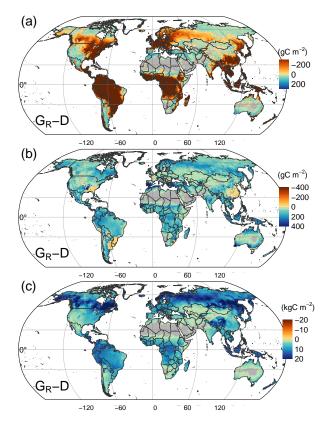


Figure S4. Simulation results for option G_R averaged over 1998 to 2002, a) grass harvest difference to option D (gC m⁻² a⁻¹), b) NPP difference to option D (gC m⁻² a⁻¹) and c) soil carbon difference to option D (kgC m⁻²).