Supplement of

Effect of changing vegetation and precipitation on denudation – Part 1: Predicted vegetation composition and cover over the last 21 thousand years along the Coastal Cordillera of Chile

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Supplemental Material

Figure S1. Spatial and altitudinal distribution of modelled plant functional types (PFT) for Mid Holocene climate conditions (LAI: leaf area index [m$^2$ m$^{-2}$], the altitudinal subplot represents zonal mean LAI; red line: average elevation). PFTs: TeBE\textsubscript{tm}/TeBE\textsubscript{itm} (temperate broadleaved evergreen trees; t = shade-tolerant; it = shade-intolerant; m = mesic), TeBE\textsubscript{itscl} (temperate broadleaved evergreen trees; scl = sclerophyllous), TeBS\textsubscript{tm}/TeBS\textsubscript{itm} (temperate broadleaved summergreen trees), TeE\textsubscript{s} (temperate evergreen shrubs; s = shrub), TeR\textsubscript{s} (temperate raingreen shrubs), TeNE (temperate needleleaved evergreen trees), BBS\textsubscript{itm} (boreal broadleaved summergreen trees), BBE\textsubscript{itm} (boreal broadleaved evergreen trees), BE\textsubscript{s} (boreal evergreen shrubs), C3G (herbaceous vegetation). 1: Pan de Azúcar, 2: Sta. Gracia, 3: La Campana, 4: Nahuelbuta.
Figure S2. Spatial and altitudinal distribution of modelled plant functional types (PFT) for Last Glacial Maximum climate conditions (LAI: leaf area index \( [m^2 \cdot m^{-2}] \), the altitudinal subplot represents zonal mean LAI; red line: average elevation). PFTs: TeBE_tmv/ TeBE_tim (temperate broadleaved evergreen trees; t = shade-tolerant; it = shade-intolerant; m = mesic), TeBE_scl (temperate broadleaved evergreen trees; scl = sclerophyllous), TeBS_tmv/ TeBS_tim (temperate broadleaved summergreen trees), TeE_s (temperate evergreen shrubs; s = shrub), TeR_s (temperate raingreen shrubs), TeNE (temperate needleleaved evergreen trees), BBS_tim (boreal broadleaved summergreen trees), BBE_tim (boreal broadleaved evergreen trees), BE_s (boreal evergreen shrubs), C3G (herbaceous vegetation). 1: Pan de Azúcar, 2: Sta. Gracia, 3: La Campana, 4: Nahuelbuta.
Figure S3. (a) Average annual temperature and (b) precipitation conditions derived from the downscaled and bias-corrected ECHAM5 paleoclimate dataset (Mutz et al., 2017) for the Last Glacial Maximum (LGM) and present day (PD) time-slices (data: avg. of 10-yr monthly data; 1: Pan de Azúcar, 2: Sta. Gracia, 3: La Campana, 4: Nahuelbuta).