

Supporting Information

Supplementary Information 1: Supplementary Figures and Tables

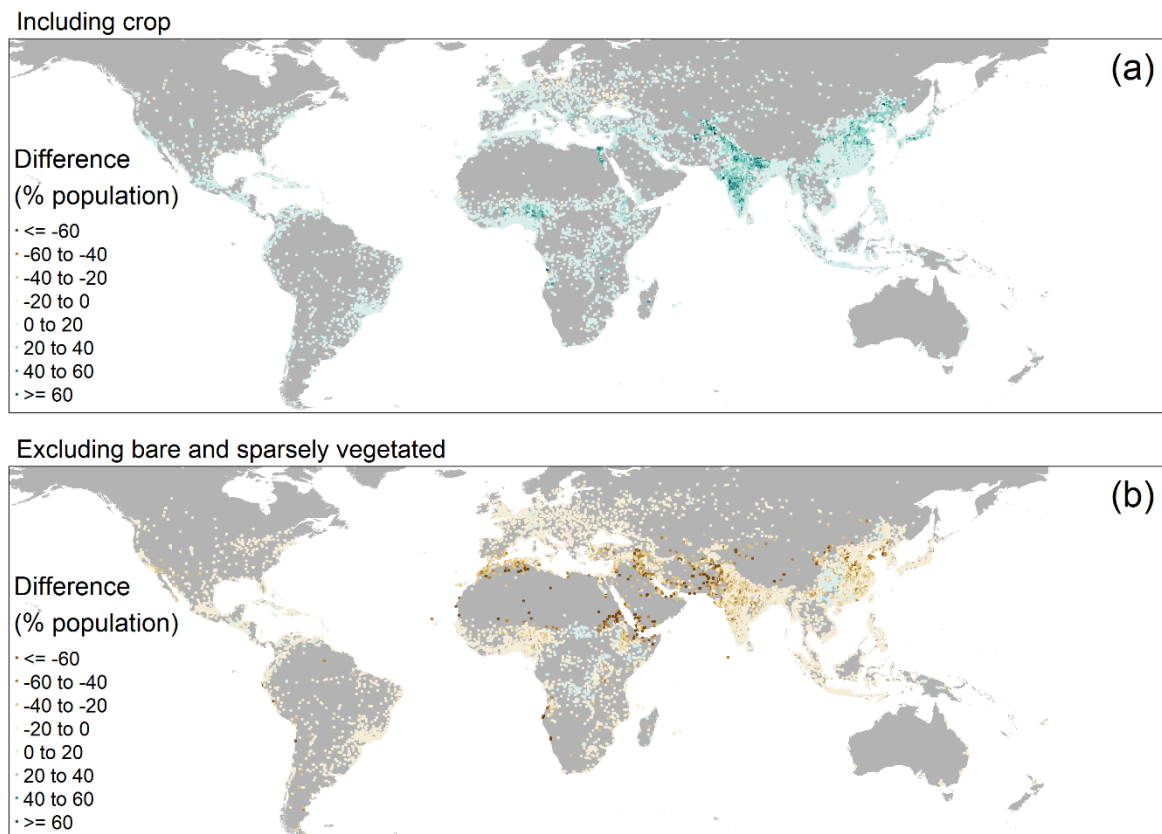


Figure S1. Spatial sensitivity of the percentage of population living within a five-minute walk of urban ecosystems to the definition of urban ecosystems.

(a) Including cropland generally overestimates the percentage of the population within a five-minute walk of an urban ecosystem. (b) Excluding bare and sparsely vegetated ecosystems generally underestimates the percentage of the population within a five-minute walk.

Using universal speed

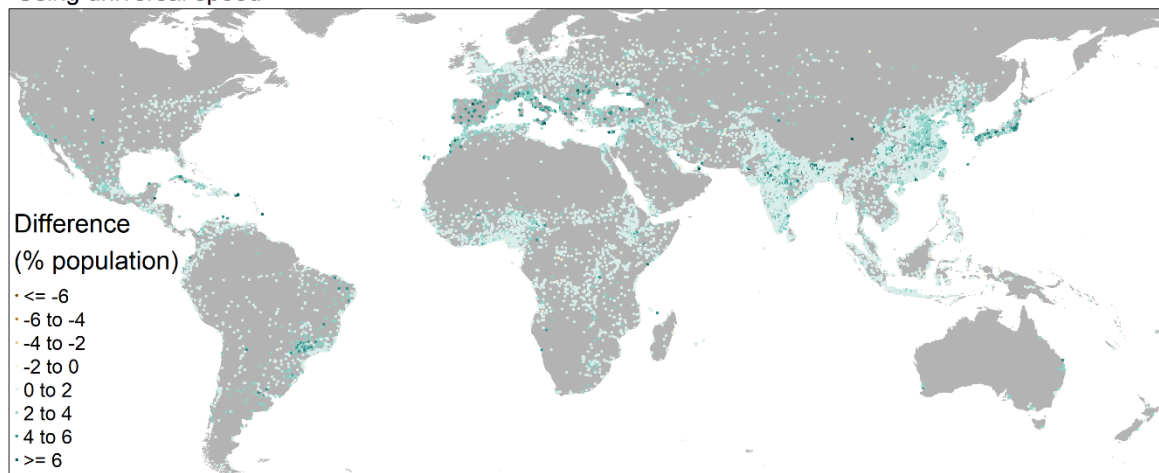


Figure S2. Differences in percentage of urban area populations with access to urban ecosystems using universal and population-varying walking speed.

Applying a universal walking speed overestimated the percentage of the population living within a five-minute walk of an urban ecosystem, when compared to a method accounting for population age and sex variation in walking speed.

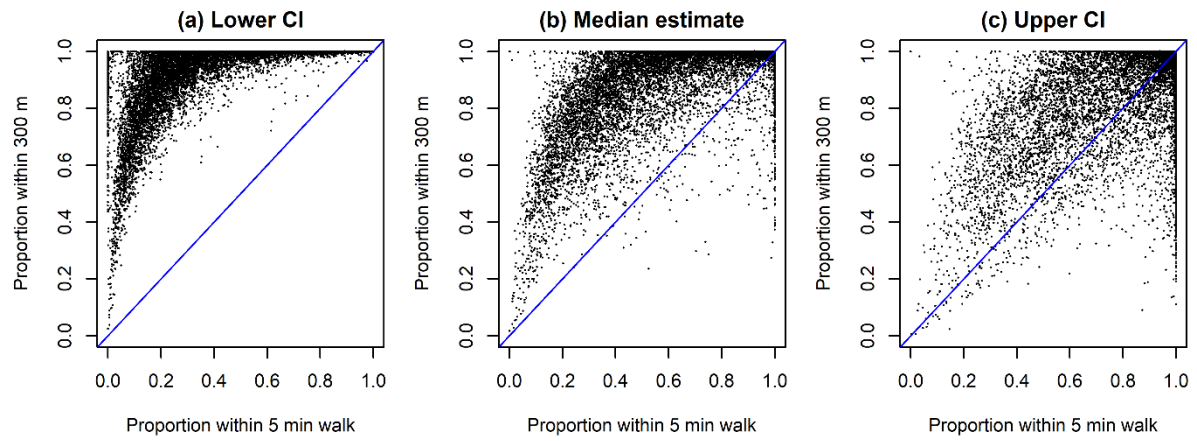


Figure S3. Comparison of access to urban ecosystems quantified as five-minute travel time and 300 m Euclidean distance. Comparison for (a) lower 95% confidence intervals, (b) bootstrap median estimates, and (c) upper 95% confidence intervals.

Using 300 m Euclidean distance

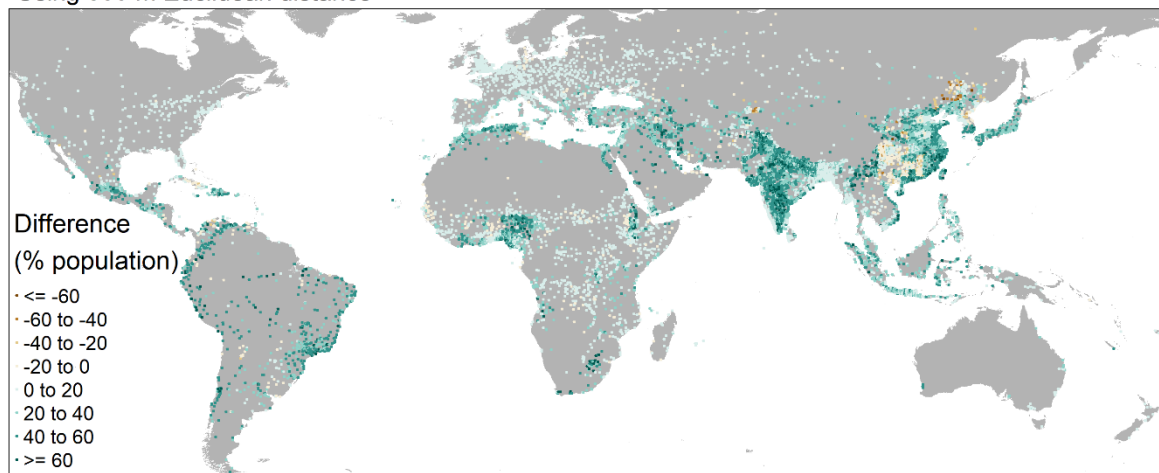


Figure S4. Differences in percentage of urban area populations with access to urban ecosystems quantified as five-minute travel time and 300 m Euclidean distance. Quantifying the five-minute access to urban ecosystems using a 300 m Euclidean distance threshold overestimated the percentage of the population living with access, as compared to the method explicitly modelling walking time.

Table S1. Land cover types included in different definitions of urban ecosystem patch.

Urban ecosystem type	Land cover classes within urban area	Land cover classes in surrounding area	Minimum patch size
Ecosystem spaces	Tree, shrubland, grassland, bare/ sparse, snow and ice, herbaceous wetland, mangroves, moss and lichen	Forest, shrub, herb, bare, snow and ice, herbaceous wetland, moss and lichen	1 ha
Green spaces	Tree, shrubland, grassland, herbaceous wetland, mangroves	Forest, shrub, herb, herbaceous wetland	1 ha
Ecosystem spaces including agriculture	Tree, shrubland, grassland, bare/ sparse, cropland, snow and ice, herbaceous wetland, mangroves, moss and lichen	Forest, shrub, herb, bare, snow and ice, agriculture, herbaceous wetland, moss and lichen	1 ha