

Appendix S3: Anthrome Classification Algorithm.

The anthrome 2 classification algorithm is detailed in the figure below, with the five anthrome levels in large bold text near the left and anthrome classes and symbols at far right. Data inputs to the model are in italics: *urban* = % urban land cover, *pop* = population density (persons km⁻²), *rice* = % cover by rice, *irrigation* = % land area irrigated, *crops* = % area covered by crops, *pasture* = % area covered by pastures, *trees* = areas potentially covered by trees (Woodlands and Savanna biomes), *village regions* = regions with a history of agricultural village development (cells outside North America, Australia and New Zealand).

