1/ Data collection **Initial dataset** AntWeb: 62,301 records GABI: 93,557 records With GPS No GPS Geolocalized occurrences Other occurrences AntWeb: 59,981 records AntWeb: 2,320 records GABI: 45,593 records GABI: 47,964 records 2a/ Flags for inspection 2b/ Retrieve GPS coordinates Screen Gazetteers for localities CoordinateCleaner flags Non-terrestrial records If absent: Find smallest valid adm Country centroids **Country** mismatches Draw random coordinates Biodiversity institutions Record area as uncertainty Distance outliers (1000km) N = 50,144 (99.7%)N = 4,143 (3.9%)Geolocalized occurrences **Custom flags** With uncertainty All adm mismatches AntWeb: 61,096 records **Bioregion outliers** GABI: 88,445 records N = 15,244 (14.4%)3/ Filter duplicates 4/ Optional filters **Spatial thinning:** Visual checking Apply 0.1° grid cell of taxa maps Keep **unique pairs** Remove entries with taxa-coordinates uncertainty > X km² N = 111,413 (74.5%) 5/ Data analyses **Curated occurrences** With uncertainty AntWeb: 20,333 records GABI: 17,795 records