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Data files

gaynor-animcons-detections.csv: Detection record for all species in the study, where each row represents a camera location (as described by gaynor-animcons-cammetadata.csv), each column represents a species (as described by gaynor-animcons-species.csv), and cell values represent the number of days during the sample period for which that species was detected at that location. Raw data used to derive this matrix are available upon request

gaynor-animcons-cammetadata.csv: Metadata for the 60 camera trap locations in the study, including occupancy and detection covariates, and length of operation period

gaynor-animcons-species.csv: Metadata for species in the study, including species codes, taxonomic information, common names, and guilds used for group model

Scripts

gaynor-animcons-occupancy-model-groups.R: Model used to estimate detection and occupancy probabilities from camera data, with species grouped by guilds (with both community-level and group-level hyperparameters). Reads in all data files, runs JAGS model, and summarizes model output

gaynor-animcons-occupancy-model-groups-jags.txt: JAGS model, run in gaynor-animcons-occupancy-model-groups.R

gaynor-animcons-occupancy-model-nogroups.R: Model used to estimate detection and occupancy probabilities from camera data, with species not grouped by guilds (only a community-level hyperparameter). Reads in all data files, runs JAGS model, and summarizes model output

gaynor-animcons-occupancy-model-nogroups-jags.txt: JAGS model, run in gaynor-animcons-occupancy-model-groups.R