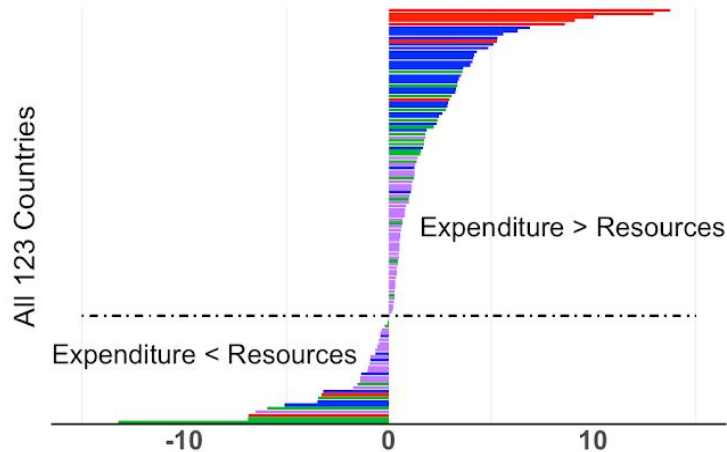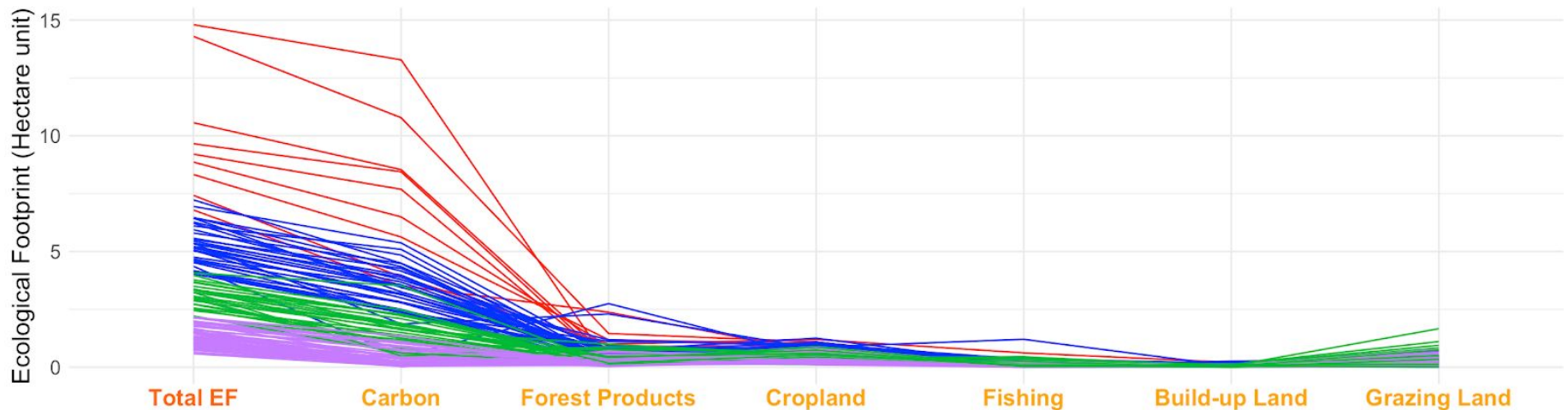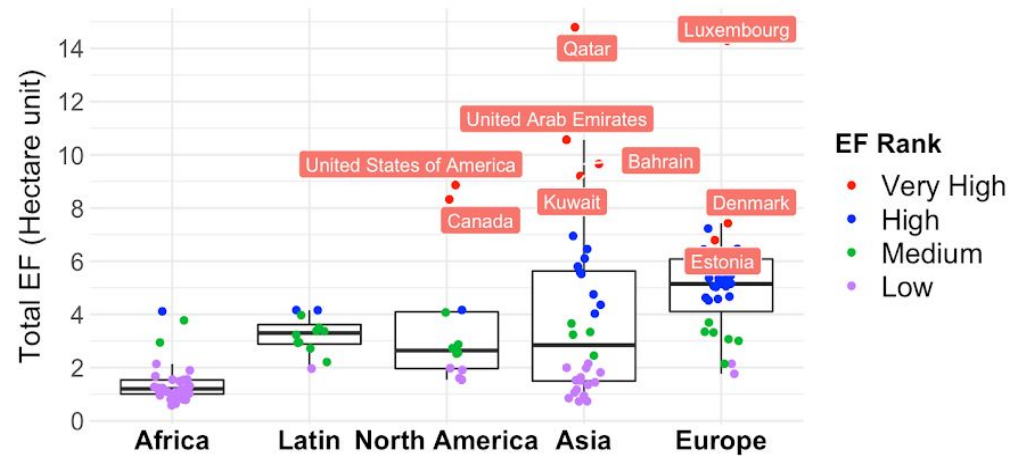# Analysis of Ecological Footprints per Person and Its Majors Allocation

Metric concepts: <u>Biocapacity</u> (in hectares) is the productive area to produce biological materials for one person. <u>Ecological Footprint (EF)</u> (in hectares) is the biological productive area providing everything one person consumes. EF is further segregated into six major footprints. EF Ranks (Low, Medium, High, Very High) are defined by machine learning method k-medoid based on EF.

FIGURE 1: An ensemble of plots (all based on average) of Ecology dataset from 2006 to 2015. Three fourth of countries "spent" more resources than they actually have (barchart). Whereas most African countries are in the low EF expenditure rank and most European countries are in the high rank, Asian countries span from low to high EF expenditure (boxplots). And Carbon is the core consumption (about 80 to 90%) of countries with high and very high EF ranks (parallel plot).