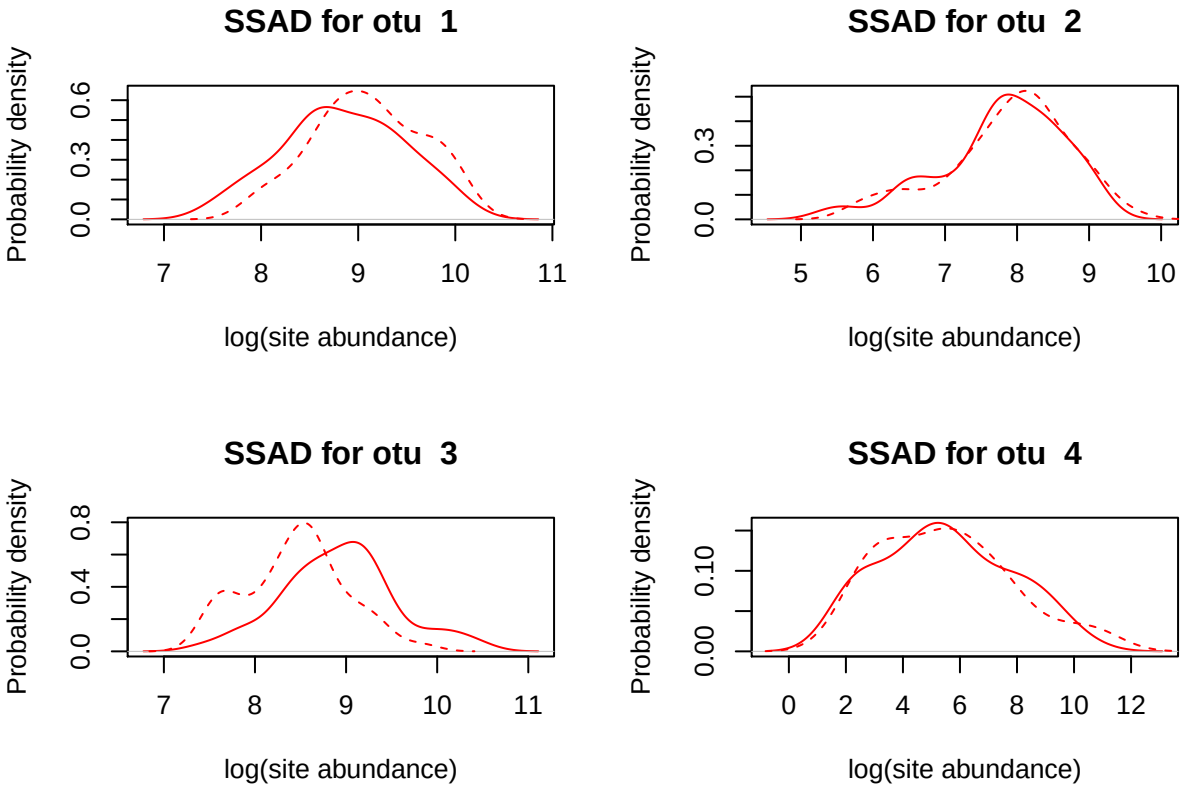
Supplemental Figures: Paired compositional similarity vs. Environment

November 7, 2015

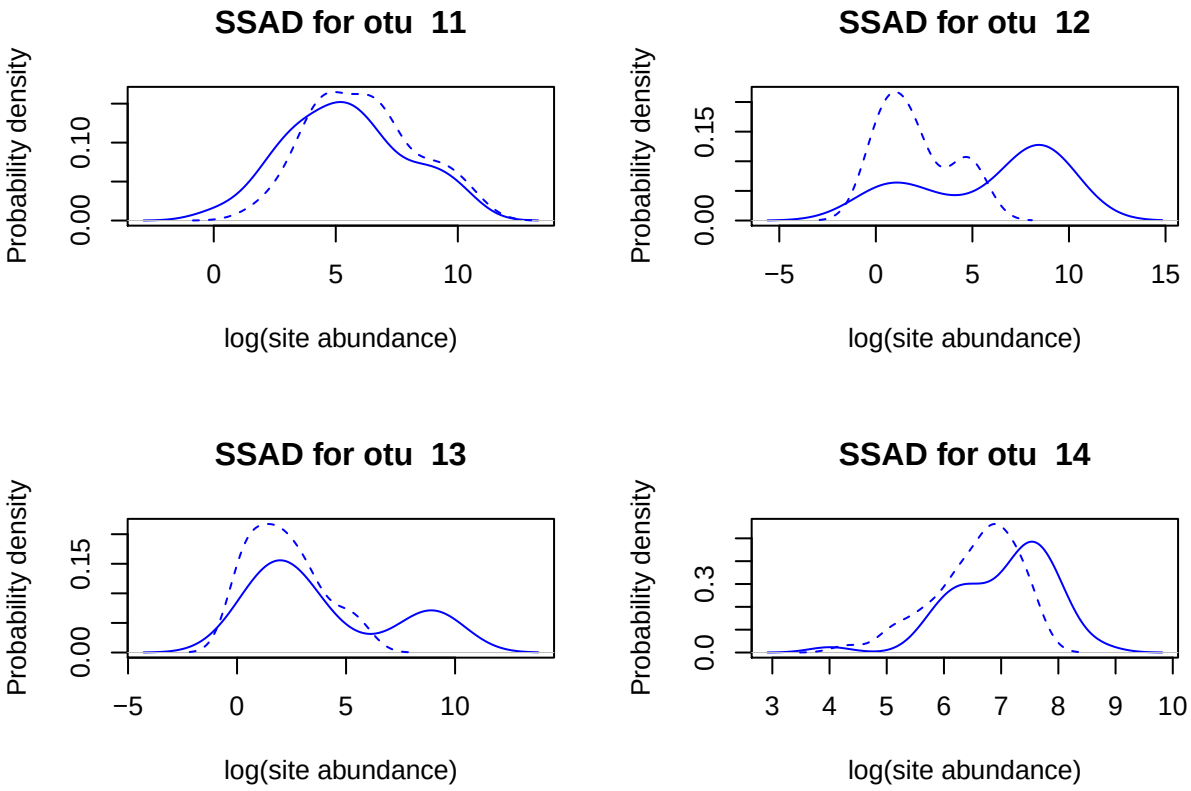
Species spatial abundance distribution (SSAD)

The SSAD represents the distribution of a species' abundance among sites. In contrast, the species abundance distribution (SAD) is the distribution of a site's abundance among species. Here, we compare each OTU's two SSADs (one from 'all' and one from 'active').

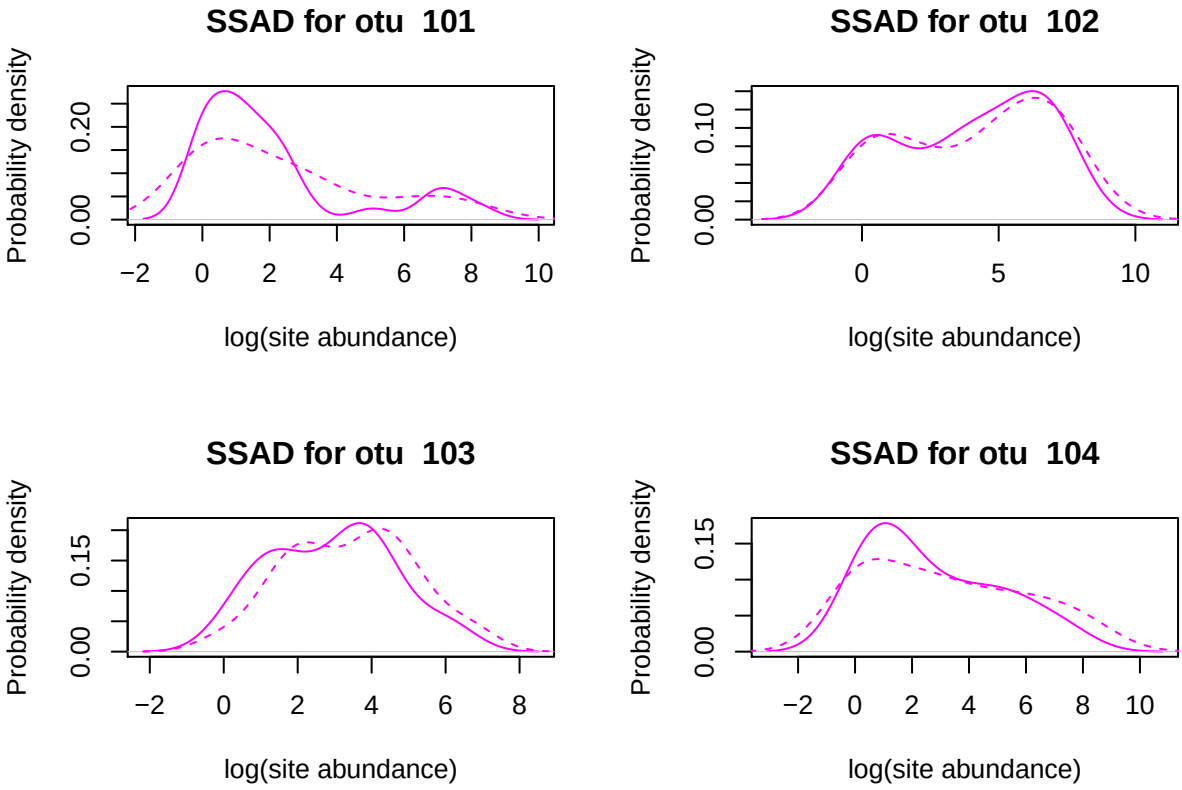
Paired-SSADs of the 4 most dominant OTUs are pretty similar. Does this change as OTUs become more rare?



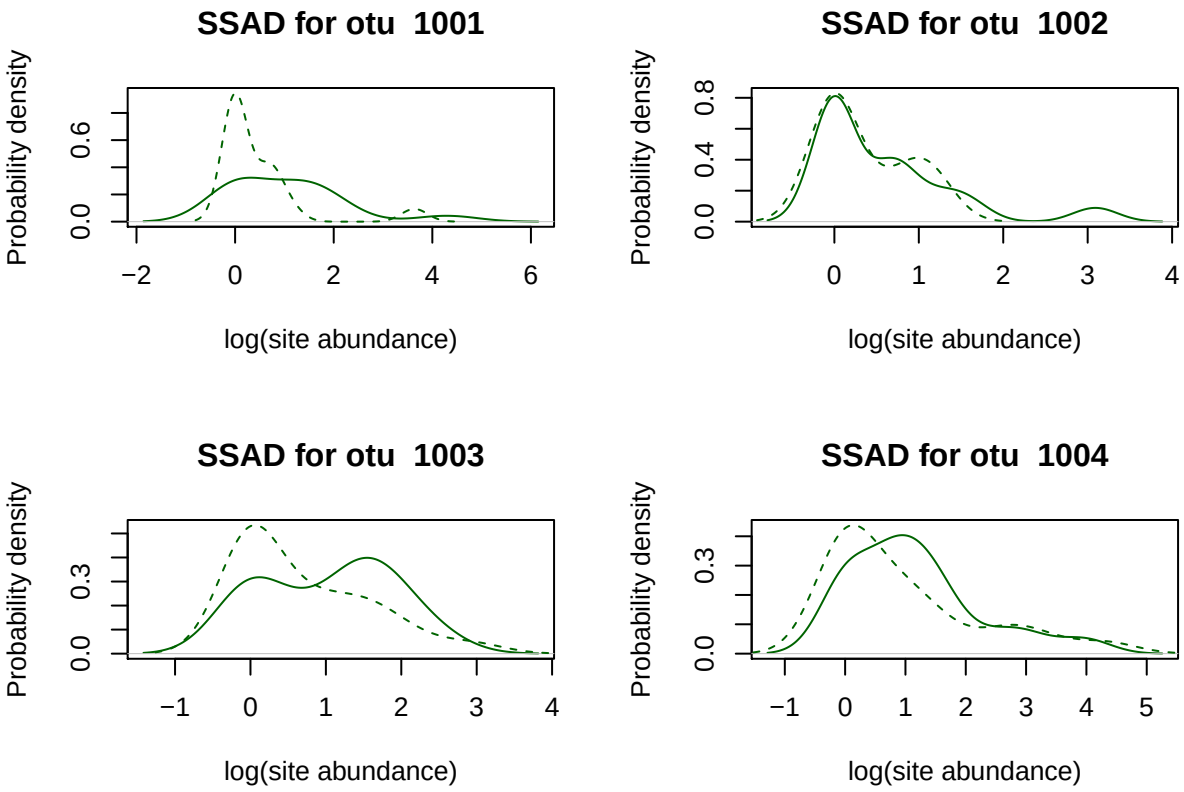
Often, the rare-biosphere begins to rear its little head by the 10th OTU or so. But, here we see that paired-SSADs of the 11 to 14th most dominant OTUs are pretty similar.



Likewise, paired-SSADs of the 101 to 104th most dominant OTUs are pretty similar.



And so are paired-SSADs of the 1001 to 1004th most dominant OTUs!



Let's examine whether percent differences in the paired-SSADs change as a function of rank in the site-by-species matrix.