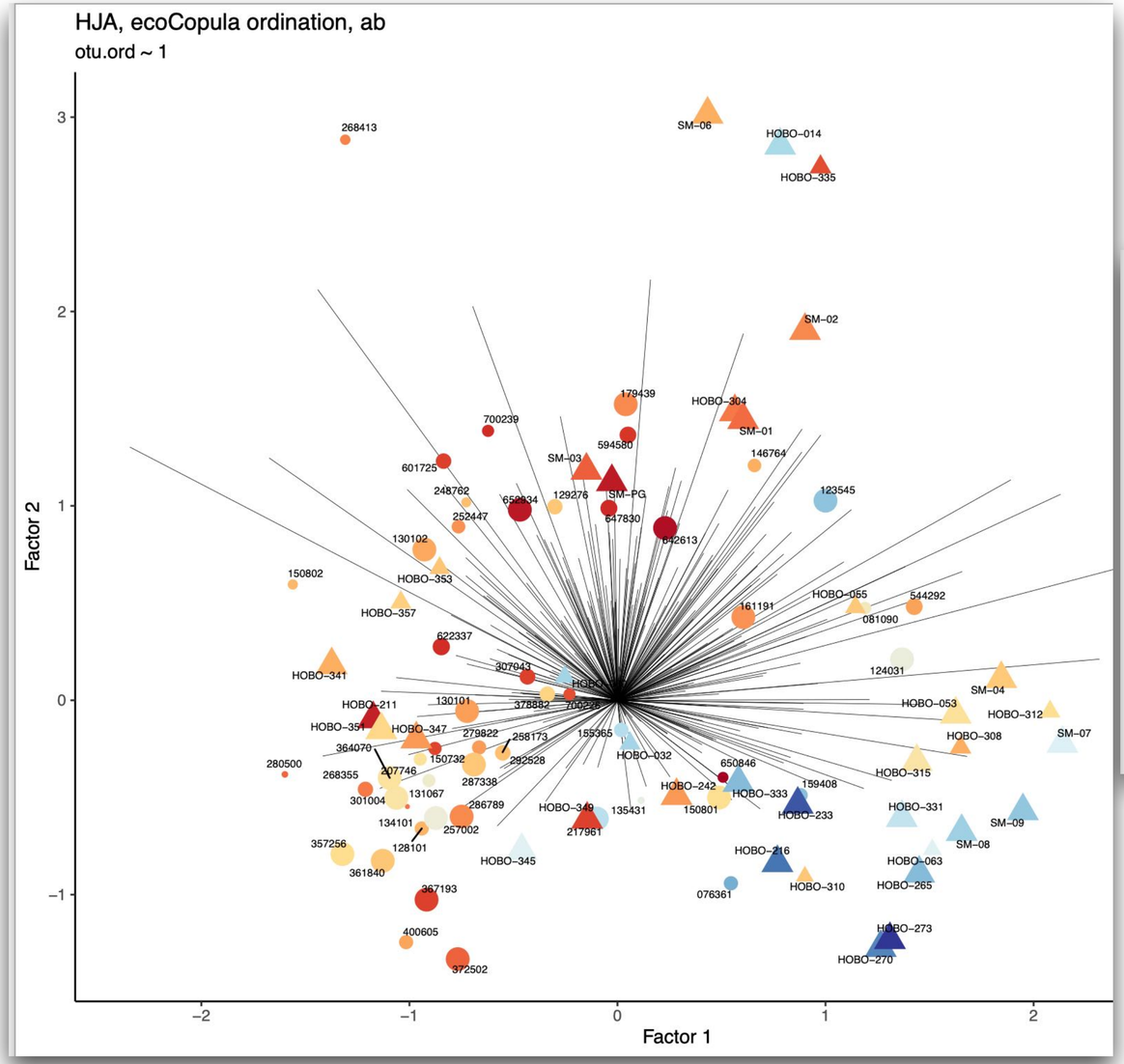
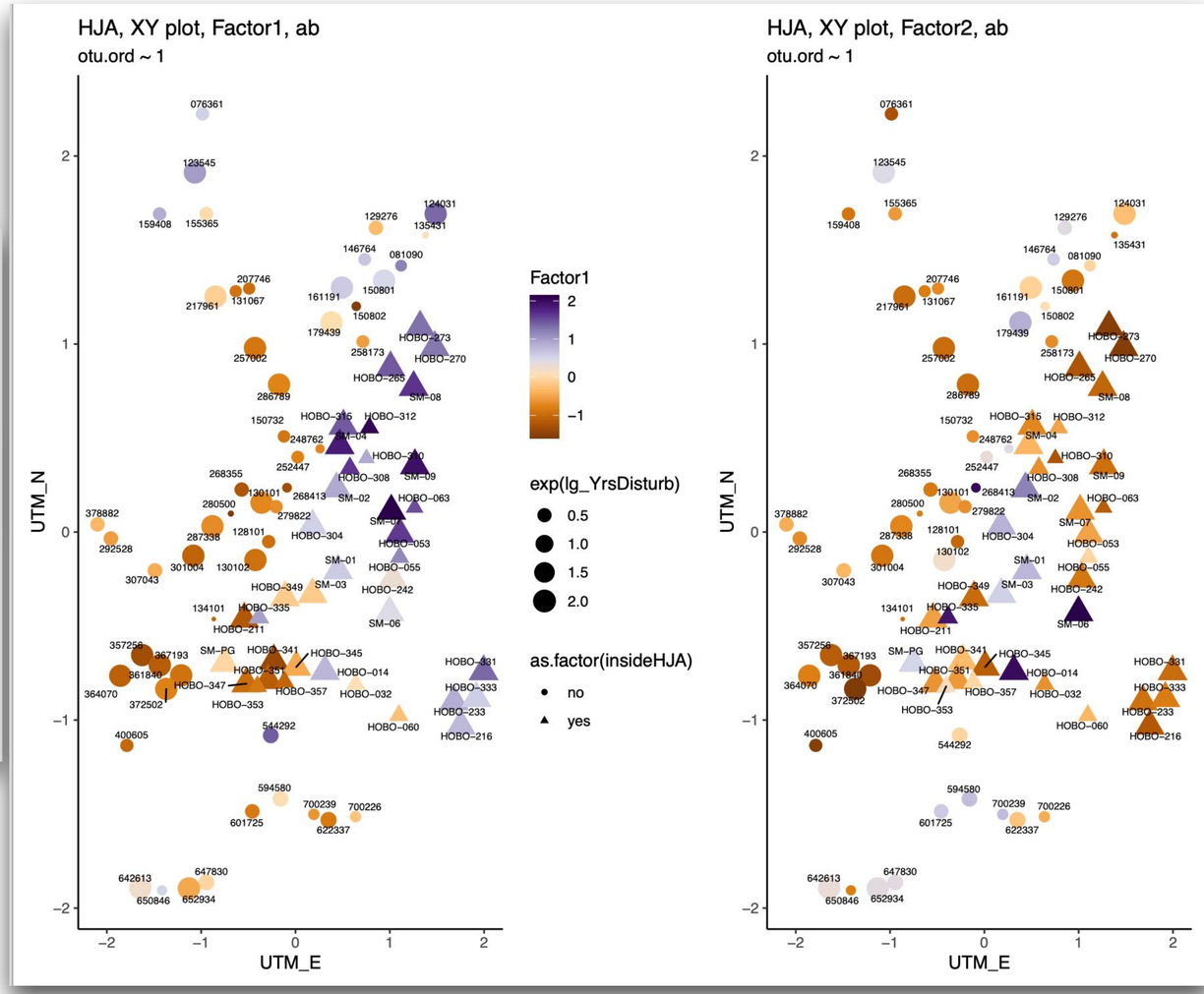
ecoCopula ordination with no env covariates, `manyglm(otu.ord ~ 1)`

left: Elevation, HJA, and log(Yrs_since_Disturbance) seem to explain community variation.

right: XY plot of sampling sites, colored by position on Factor1 and 2 axes. Factor 1 shows a strong east-west division, but not entirely explainable by being inside HJA

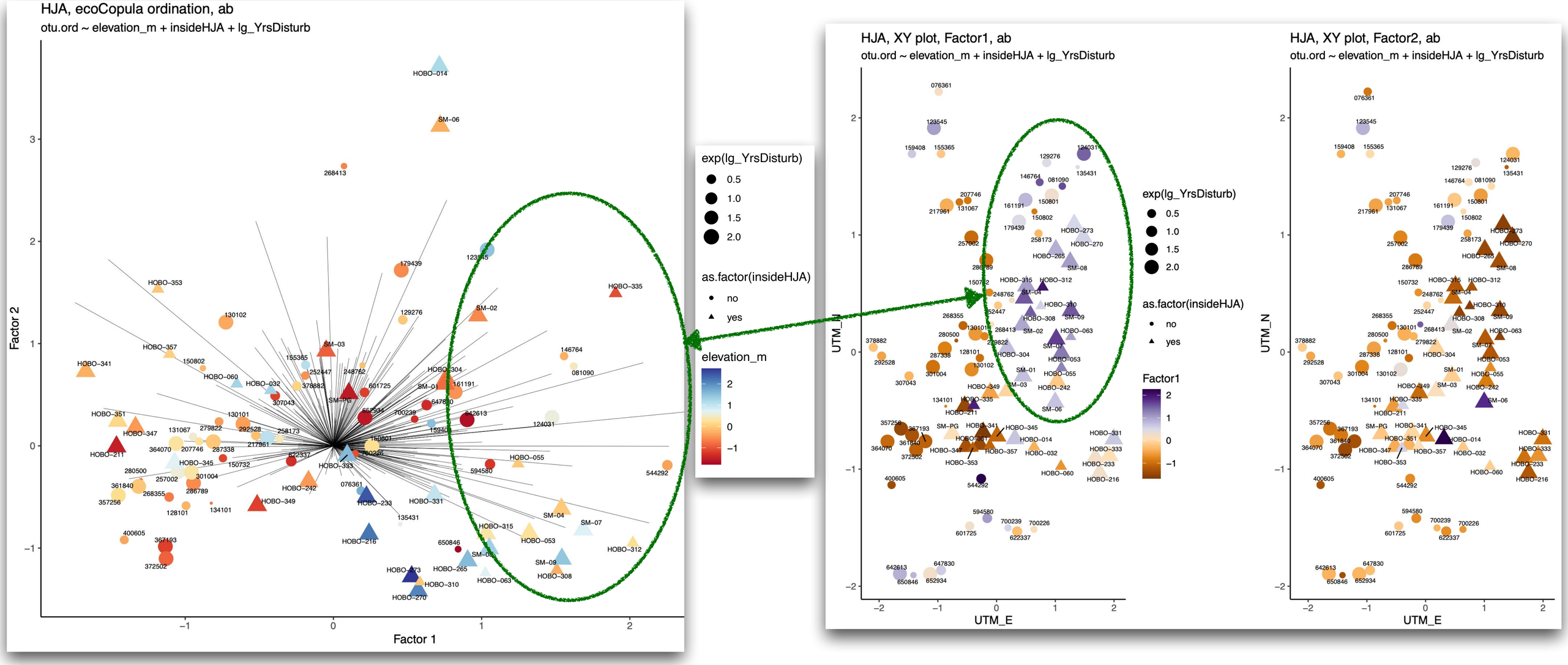




ecoCopula ordination, `manyglm(otu.ord ~ elevation_m + insideHJA + lg_YrsDisturb + offset(log(COISpike_sum))`

left: Elevation, HJA, and log(Yrs_since_Disturbance) now **removed** from the ordination (using `manyglm`). Permutation test supports only elevation as a significant covariate. (Now, the low and high elevation sites overlap in the ordination instead of separating over Factor 1, as they did previously)

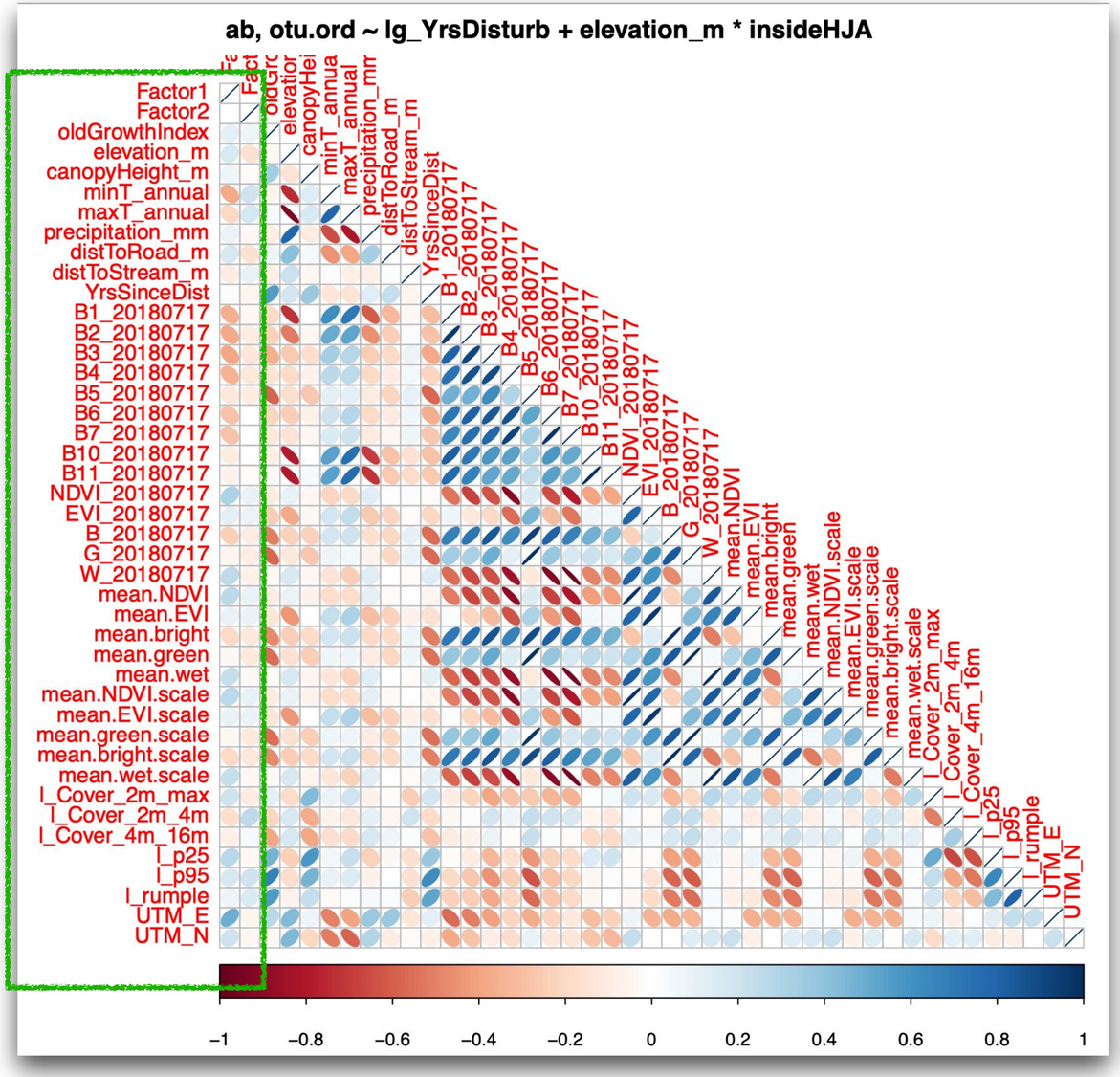
right: XY plot of sampling sites, colored by position on Factor1 and 2 axes. Factor 1 still shows a strong east-west division, which is not elevation or HJA. What characterises the sites in the green oval? (and on the other hand, what characterises the sites with negative Factor 1 values?)

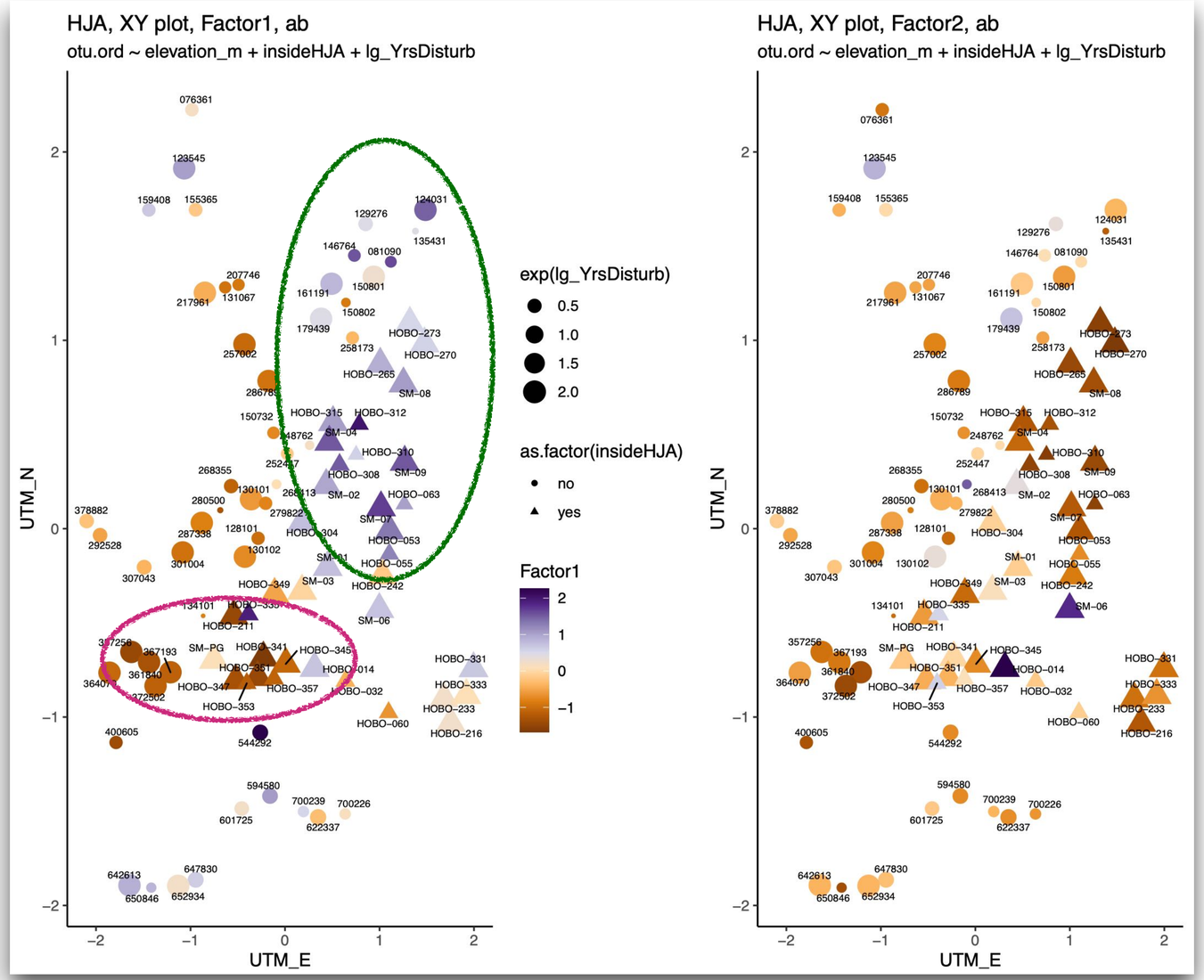


ecoCopula ordination, `manyglm(otu.ord ~ lg_YrsDisturb + elevation_m * insideHJA + offset(log(COISpike_sum))`

left: Correlation plot of some env covariates with Factors 1 and 2. Nothing really correlates with them (negatively or positively), except for UTM_E (i.e. Higher factor 1 value in the east, as shown in the XY plot on the right.)

right: XY plot of sampling sites, colored by position on Factor1 and 2 axes. Factor 1 still shows a strong east-west division, which is not elevation, lg_YrsDisturb, or HJA, but does show mild correlations to Landsat bands 1-7, MinT, and esp. UTM_E. **What is going on in the two ovals?**





ecoCopula ordination, `manyglm(otu.ord ~ elevation_m + insideHJA + lg_YrsDisturb + offset(log(COISpike_sum))`

left: OGSI map, with elevation.

right: XY plot of sampling sites, colored by position on Factor1 and 2 axes. Factor 1 still shows a strong east-west division, which is not elevation, lg_YrsDisturb, or HJA. Maybe eastern side has generally higher elevation (brown), but the sampling sites are in low elevation spots (yellow).