Multivariate Dispersion Whole microbiome **Bray Curtis Modified Gower Jaccard** 0.8 1.0 0.7 0.6 0.6 0.5 0.4 Distance to centroid 0.0 Inner bay Inner bay disturbed Inner bay Inner bay disturbed Inner bay Inner bay disturbed Outer bay Outer bay Outer bay Unifrac Generalized Unifrac Weighted Unifrac 0.4 0.5 0.6 0.3 0.5 0.2 0.3 0.2 0.1 Reef Inner bay disturbed Outer bay Inner bay Inner bay disturbed Outer bay Inner bay Outer bay Inner bay Inner bay disturbed Zone Core microbiome **Bray Curtis Modified Gower** Jaccard □ □ PBL 8.0 0.7 1.5 0.6 0.6 0.5 1.0 -0.4 Distance to centroid 0.5 Inner bay Inner bay disturbed Outer bay Inner bay disturbed Outer bay Inner bay Inner bay disturbed Outer bay Generalized Unifrac Weighted Unifrac Unifrac 0.8 0.7 0.6 0.6 0.5 0.5 0.4 0.4 0.4 0.3 0.2 0.3 0.2 Inner bay disturbed Outer bay Inner bay disturbed Outer bay Inner bay disturbed Outer bay Inner bay Inner bay Inner bay Zone

SCR PPR

CCR

ALR SIS

ROL RNW

PST