Uncovering depth and spatial patterns of soil eDNA in arid regions

Community Ecology

Madeleine P. Malmfeldt, Denise L. Lindsay, Carina M. Jung, Mark A. Chappell, N. Paige Fowler, Autumn Acree, Michelle Wynter, Yoko Masue-Slowey, Adam J. Norris, George M. Ferguson, and Richard F. Lance*

*Corresponding author: richard.f.lance@erdc.dren.mil

Online Resource 6

Parameters of Linear Models of Relationship between Jaccard Index of Similarity Values and Interpoint Sampling Distance for All ASVs and Key ASVs within each Habitat Type*

*Except for key ASVs within the encinal woodland habitat type, as neither transects nor the interactions of interpoint distance with transects were statistically significant factors in linear models.

Table OR6-1a. Estimated linear trends for Jaccard Index values of similarity in ASV sets vs. interpoint distance for pairs of sample points within each of three plots in the desert scrubland habitat type and *p*-value for pairwise trend contrast tests (CPV).

Transect	Trend	SE Trend	Transect 1 CPV	Transect 2 CPV	Transect 3 CPV
1	-0.00040	0.00005	--	<0.001	<0.001
2	-0.00003	0.00005		--	0.931
3	-0.00005	0.00005			--

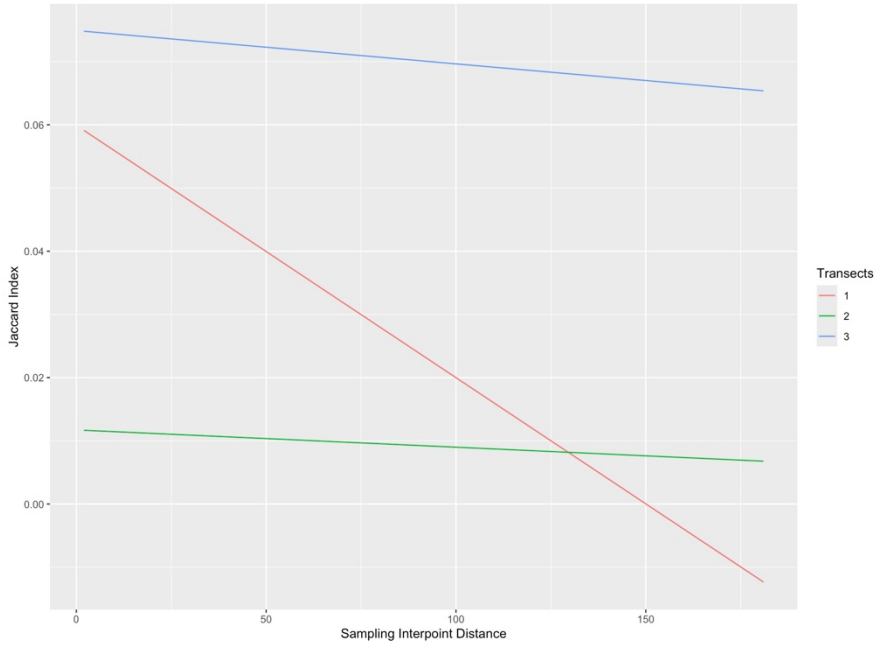

Fig. OR6-1a. Estimated trends (slopes) of Jaccard Index values of similarity in ASV sets vs. interpoint distance between soil samples for different transects within the desert

Table OR6-1b. Estimated linear trends for Jaccard Index values of similarity in ASV sets vs. interpoint distance for pairs of sample points within each of three plots in the grassland habitat type and *p*-value for pairwise trend contrast tests (CPV).

Transect	Trend	SE Trend	Transect 1 CPV	Transect 2 CPV	Transect 3 CPV
1	-0.00033	0.00005	--	<0.001	<0.001
2	-0.00004	0.00005		--	0.724
3	-0.00010	0.00005			--

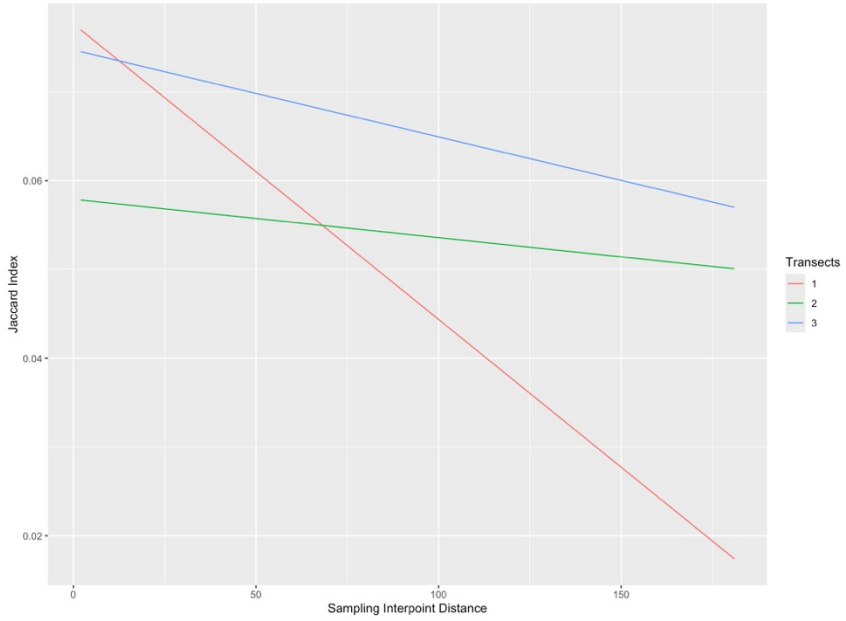

Fig. OR6-1b. Estimated trends (slopes) of Jaccard Index values of similarity in ASV sets vs. interpoint distance between soil samples for different transects within the grassland

Table OR6-1c. Linear trends for Jaccard Index values of similarity in ASV sets vs. interpoint distance for pairs of sample points within each of three plots in the encinal woodland habitat type and *p*-value for tests of contrasts in pairwise trends (CPV).

Transect	Trend	SE Trend	Transect 1 CPV	Transect 2 CPV	Transect 3 CPV
1	-0.00019	0.00005	--	0.273	0.120
2	-0.00009	0.00004		--	0.876
3	-0.00007	0.00004			--

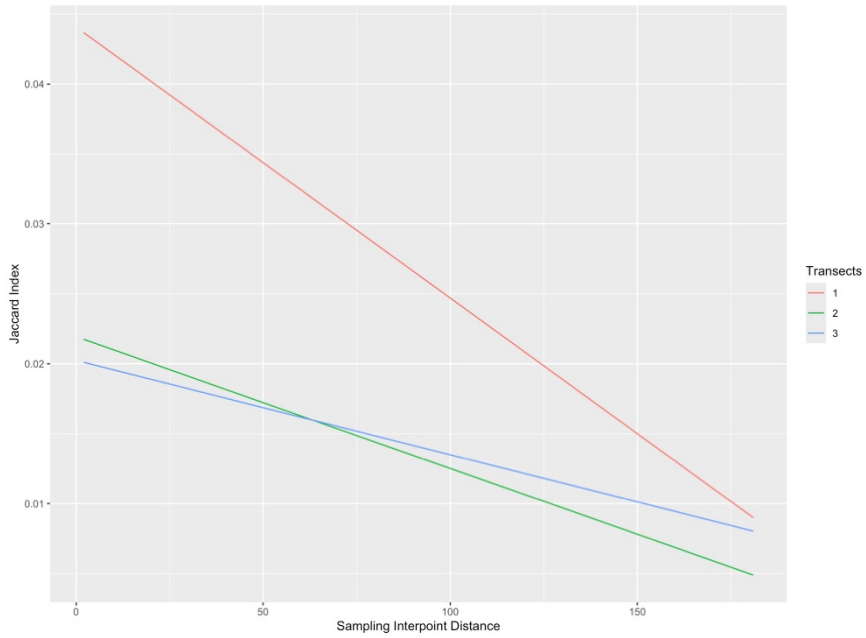

Fig. OR6-1c. Estimated trends (slopes) of Jaccard Index values of similarity in ASV sets vs. interpoint distance between soil samples for different transects within the encinal woodland

Table OR6-1d. Estimated linear trends for Jaccard Index values of similarity in ASV sets vs. interpoint distance for pairs of sample points within each of three plots in the Pine-Oak Forest habitat type and *p*-value for tests of contrasts in pairwise trends (CPV).

Transect	Trend	SE Trend	Transect 1 CPV	Transect 2 CPV	Transect 3 CPV
1	-0.00009	0.00003	--	0.675	0.403
2	-0.00013	0.00003		--	0.092
3	-0.00003	0.00003			--

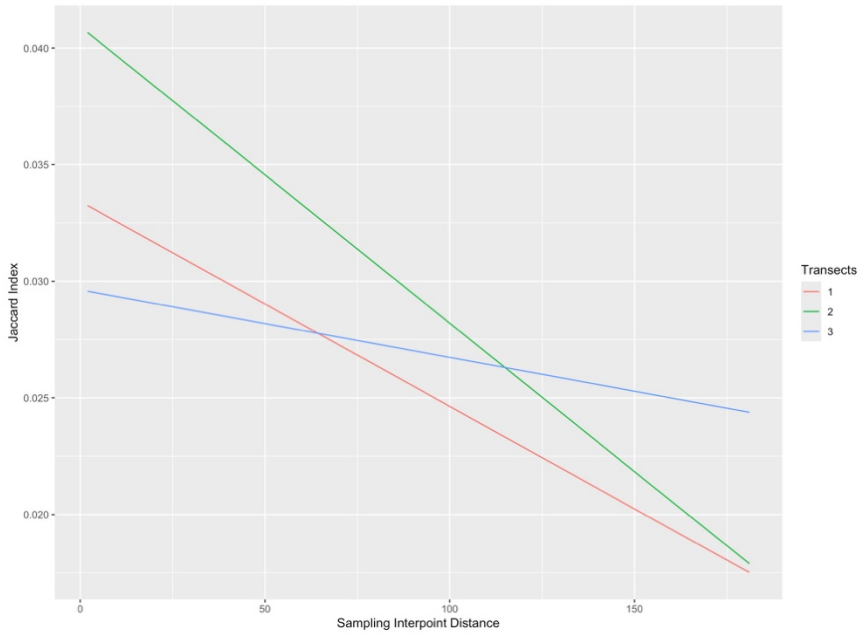

Fig. OR6-1d. Estimated trends (slopes) of Jaccard Index values of similarity in ASV sets vs. interpoint distance between soil samples for different transects within the Pine-Oak

Table OR6-1e. Estimated linear trends for Jaccard Index values of similarity in key ASV sets vs. interpoint distance for pairs of sample points within each of three plots in the desert scrubland habitat type and *p*-value for pairwise trend contrast tests (CPV).

Transect	Trend	SE Trend	Transect 1 CPV	Transect 2 CPV	Transect 3 CPV
1	-0.00333	0.00040	--	<0.001	<0.001
2	-0.00057	0.00040		--	0.467
3	0.00010	0.00040			--

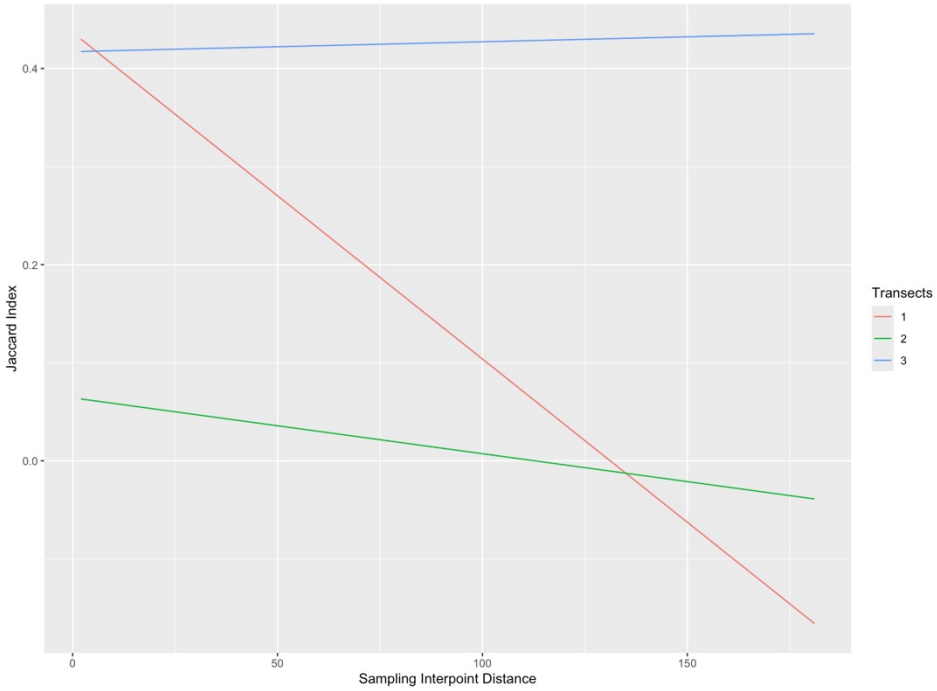

Fig. OR6-1e. Estimated trends (slopes) of Jaccard Index values of similarity in key ASV sets vs. interpoint distance between soil samples for different transects within the desert scrubland

Table OR6-1f. Estimated linear trends for Jaccard Index values of similarity in key ASV sets vs. interpoint distance for pairs of sample points within each of three plots in the grassland habitat type and *p*-value for pairwise trend contrast tests (CPV).

Transect	Trend	SE Trend	Transect 1 CPV	Transect 2 CPV	Transect 3 CPV
1	-0.00078	0.00027	--	0.001	0.435
2	0.00061	0.00027		--	0.050
3	-0.00030	0.00027			--

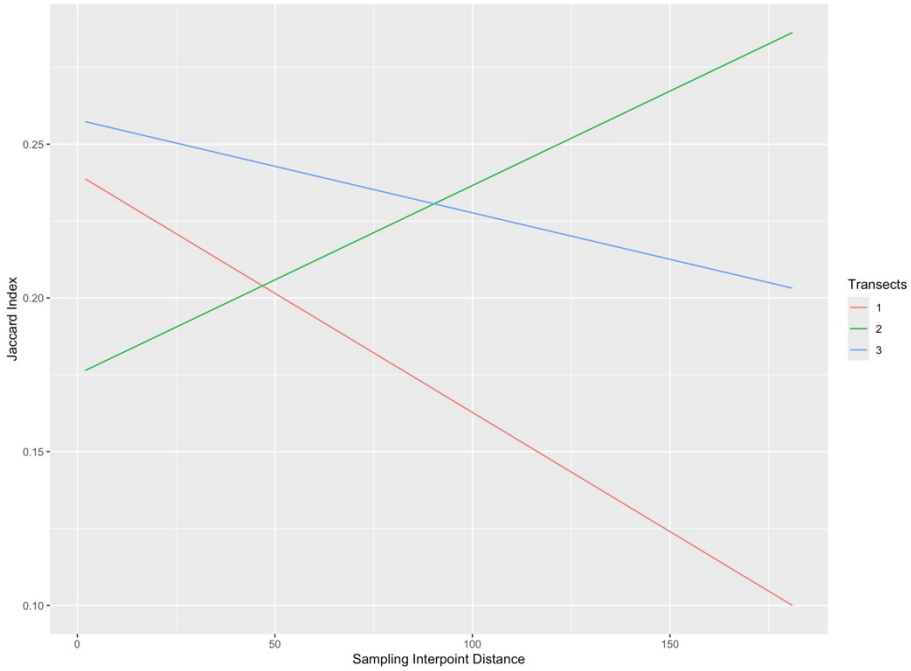

Fig. OR6-1f. Estimated trends (slopes) of Jaccard Index values of similarity in key ASV sets vs. interpoint distance between soil samples for different transects within the grassland habitat type.

Table OR6-1g. Estimated linear trends for Jaccard Index values of similarity in key ASV sets vs. interpoint distance for pairs of sample points within each of three plots in the Pine-Oak Forest habitat type and *p*-value for pairwise trend contrast tests (CPV).

Transect	Trend	SE Trend	Transect 1 CPV	Transect 2 CPV	Transect 3 CPV
1	-0.00071	0.00024	--	0.734	0.065
2	-0.00097	0.00024		--	0.009
3	0.00007	0.00024			--

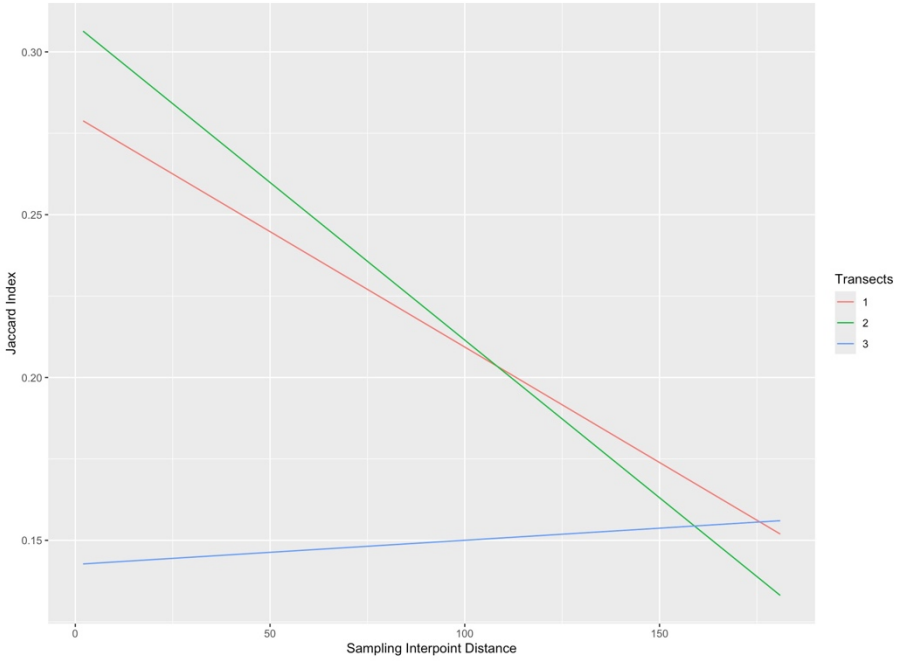

Fig. OR6-1g. Estimated trends (slopes) of Jaccard Index values of similarity in key ASV sets vs. interpoint distance between soil samples for different transects within the Pine-Oak Forest habitat