

Supplementary Tables

Species	Years	Occurrences					Locality Clusters				
		<i>n</i>	Median elevation (m)	Range	Shift	<i>p</i>	<i>n</i>	Median elevation (m)	Range	Shift	<i>p</i>
All	1952-1977	5823	226.79	0-1150	-5.86	0.3 (0.005)	102	86.83	0-1150	-2.35	1 (0.72)
	1991-2014	3130	168.81	0-1050			213	105.3	0-1050		
<i>crisatellus</i>	1952-1977	1513	22.06	0-880	64.4	<0.01 (<0.001)	70	51.4	0 - 880	5.68	0.021 (<0.01)
	1991-2014	837	98.07	0-942			119	84.31	0-942		
<i>pulchellus</i>	1952-1977	1142	17.2	0-676	3.72	<0.01 (<0.001)	32	50.23	1-676	-5.31	1 (0.762)
	1991-2014	613	52.51	0-761			101	52.7	0-756		
<i>stratulus</i>	1952-1977	582	33.05	0-880	12.49	<0.01 (<0.001)	29	169.13	0-880	-26.05	1 (0.361)
	1991-2014	339	115.29	0-880			93	130.08	0-880		
<i>evermanni</i>	1952-1977	353	480	15-1150	-135.37	<0.01 (<0.001)	18	455.82	15-1150	-112.43	1 (0.227)
	1991-2014	339	323.63	1-1050			53	390.67	1-1050		
<i>gundlachi</i>	1952-1977	1212	480	223-1150	-135.37	<0.01 (<0.001)	27	471.56	227-1150	-134.61	0.16 (0.027)
	1991-2014	539	384.99	24-1006			53	354	24-1001		
<i>krugi</i>	1952-1977	1021	384.99	10-1150	-101.93	<0.01 (<0.001)	28	378.8	53-1150	-98.95	0.69 (0.096)
	1991-2014	463	277.89	1-1006			75	256.72	1-1006		

Table S1. Occurrence elevation by species in 1952-1977 and 1991-2015. “Shift” is the median difference in elevation between time periods. *P* values are derived from a Wilcoxon rank-sum test and corrected for multiple comparisons (uncorrected *p* values are included in parentheses), with the null hypothesis set to the median shift across all species other than the focal species.

Supplementary Figures

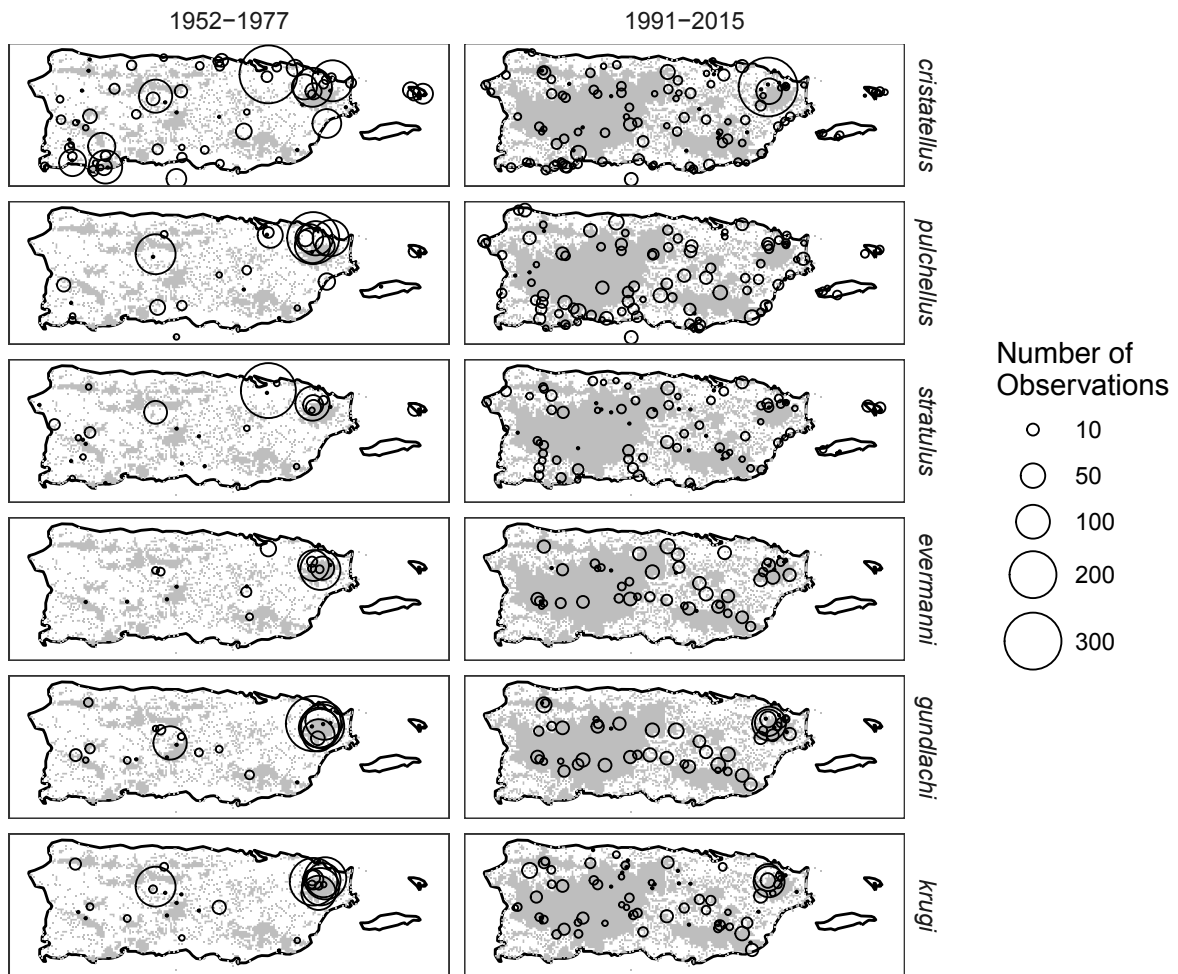


Figure S1. Species occurrences and forest land cover, 1952-1977 v 1991-2015. Circles are centered on locality clusters and scaled to the number of observations of each species. Forested areas in each time period are shown in grey.

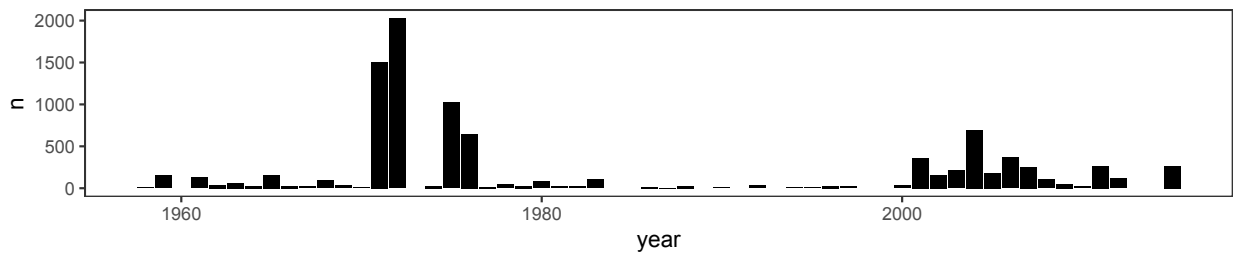


Figure S2. Number of species occurrences by year.

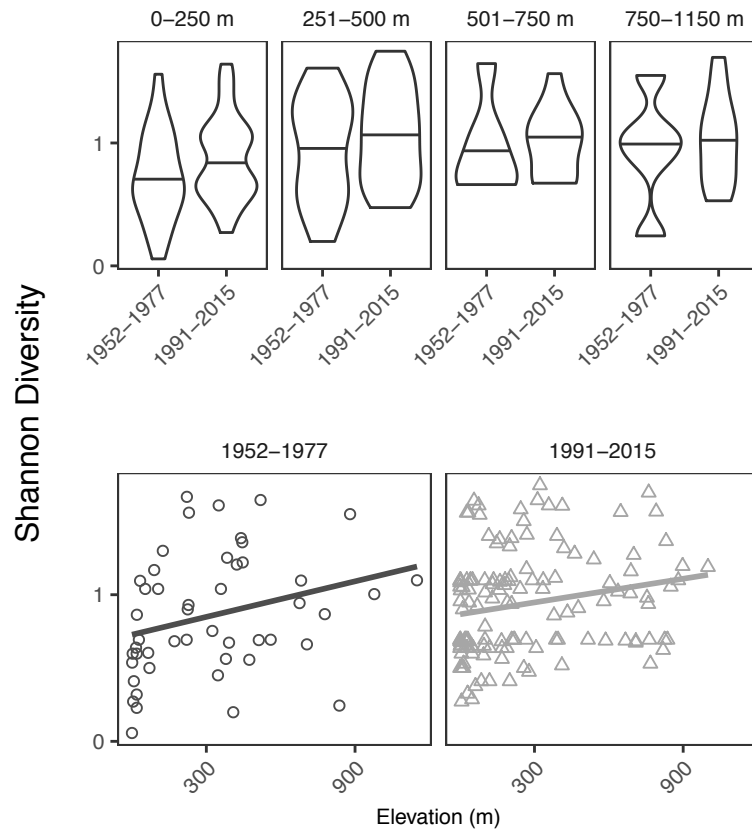


Figure S3. (A) Pairwise differences in Shannon diversity of locality clusters across time periods in elevation bins. Asterisks indicate significantly different distributions. (B) linear regression of diversity as a function of locality elevation for each time period.

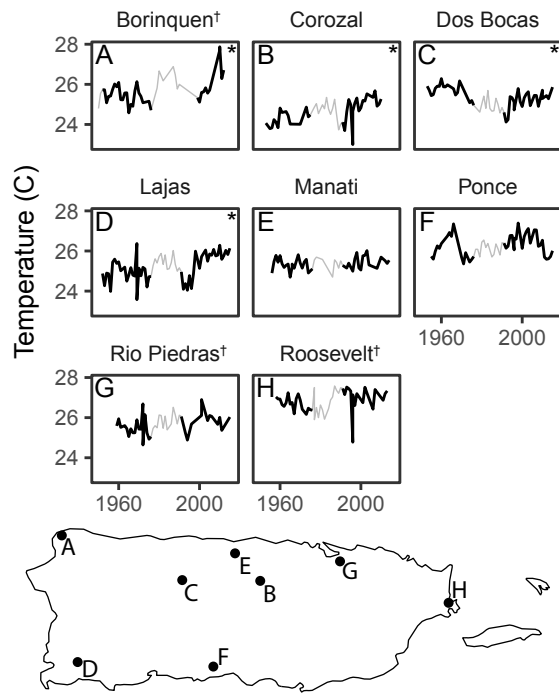


Figure S4. Average annual temperature for NOAA weather stations on Puerto Rico reporting at least 40 years of data with the oldest reports starting no later than 1950. †: station is in an urban area. *: significant difference in temperatures, 1952-1977 vs. 1991-2015, in a Welch's two-sample *t*-test.