Figure S1: Box plots of species diversity (*H'*) of birds detected via bird mist net and point counts (A. & B.) and bat (C.) assemblages across timeframes. Left column shows change over time in the logged sites. Right column show change over time in the control sites that were never logged (unlogged).

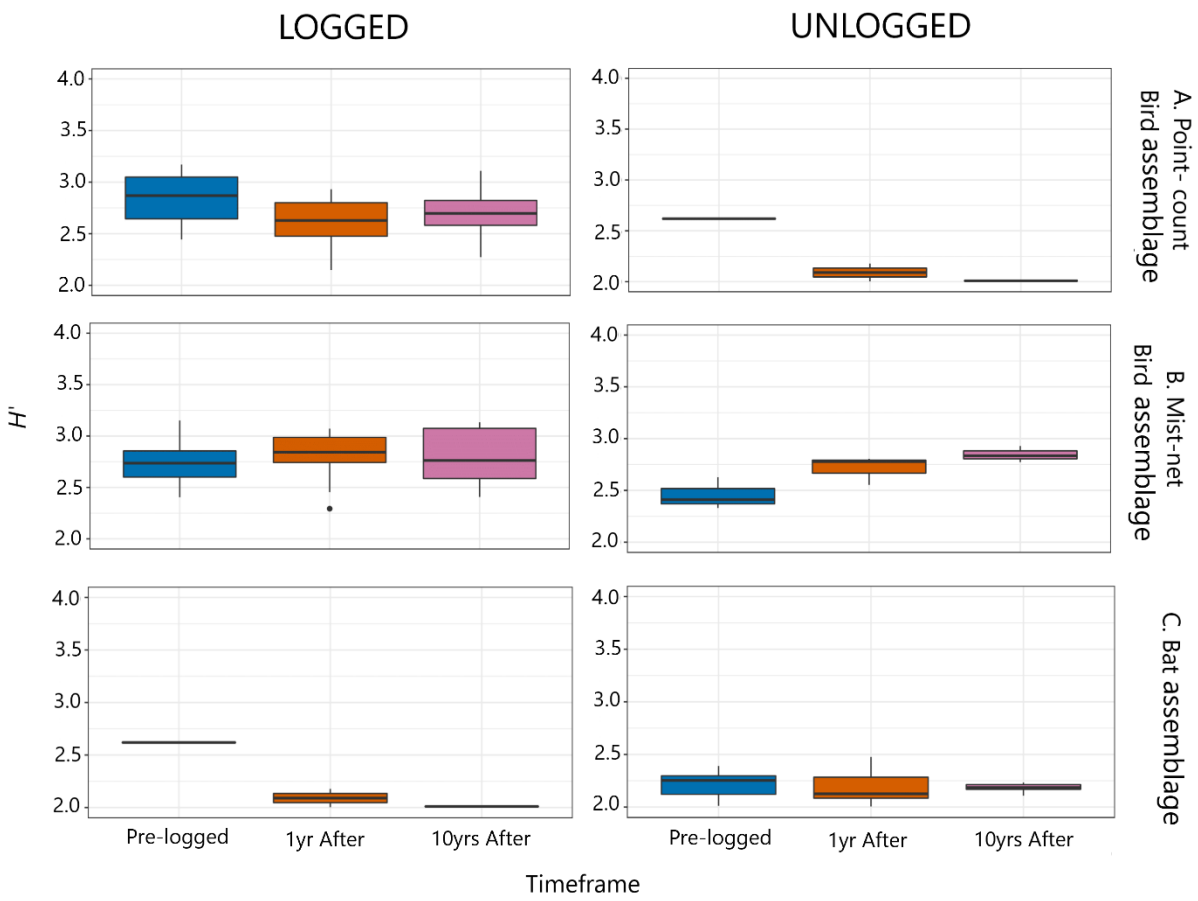

Figure S2: Rarefaction curves showing extrapolated species richness across timeframes for bird mist-net, point-count and bat assemblages.

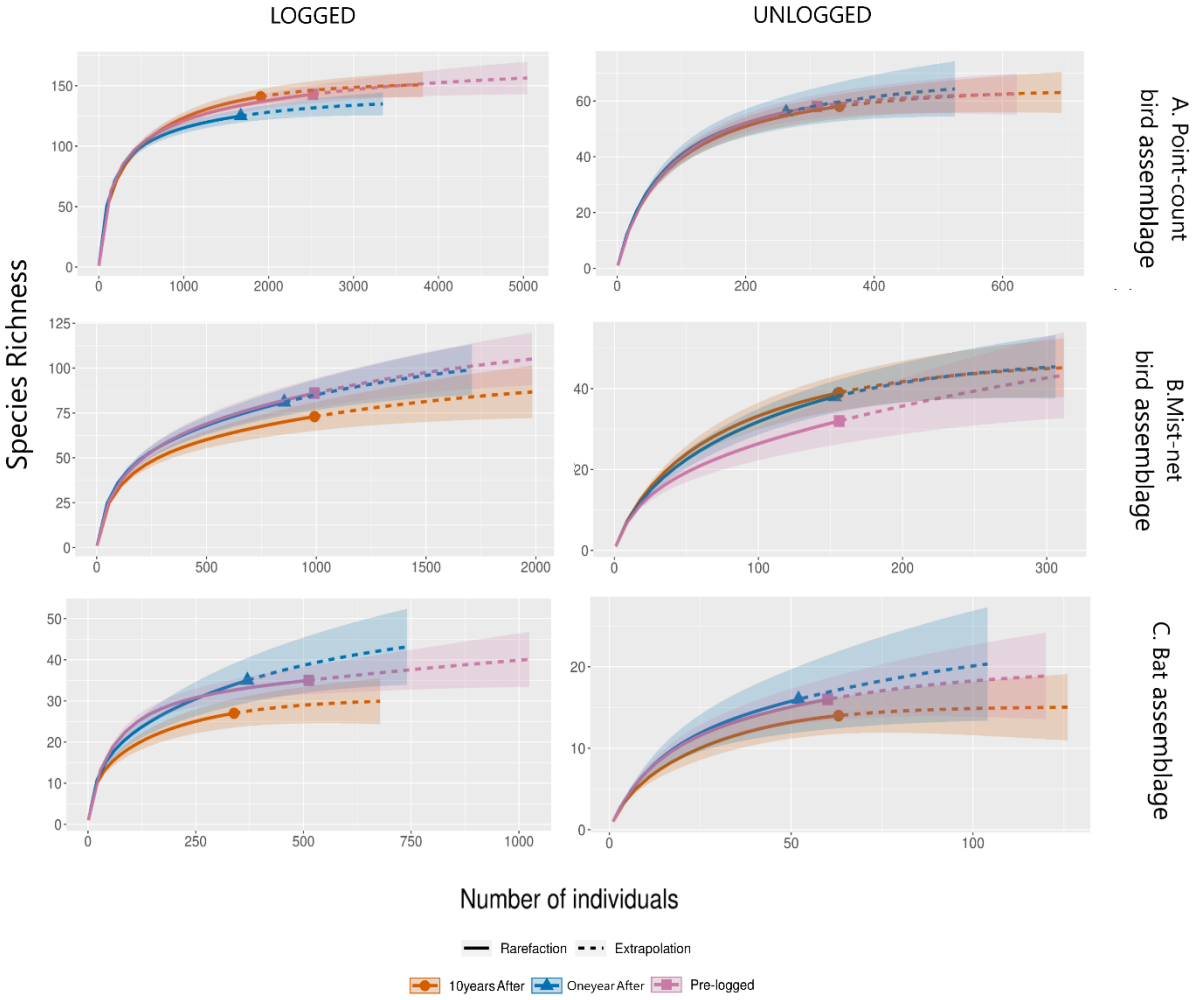

Table S1: Indicator species analysis of mist net bird assemblage, point count bird assemblage and bat assemblage data across the three timeframes.

Data	Group	Species	Stat	p.value	Feeding guild	Stratification
Mist net bird assemblage	pre-logged	*C.tyrannina*	0.581	0.023	insectivore	understory
	one year post-logged	*T.caesius*	0.684	0.005	insectivore	understory
		M.barbatus	0.526	0.033	insectivore	understory
	10 years post-logged	*S.olivacea*	0.886	0.001	omnivore	understory
		T.murinus	0.704	0.006	insectivore	all
		X.guttatus	0.675	0.018	insectivore	understory
		S.mexicanus	0.655	0.003	insectivore	understory
		M.villosus	0.535	0.022	insectivore	understory
Point count bird assemblage	pre-logged	*H.sticturus*	0.886	0.001	insectivore	canopy
		T.assimilis	0.845	0.001	insectivore	understory
		C.spiza	0.764	0.001	omnivore	canopy
		X.pardalotus	0.745	0.001	insectivore	understory
		M.guttata	0.74	0.001	insectivore	understory
		H.stictocephalus	0.735	0.005	insectivore	canopy
		R.vitellinus	0.73	0.005	frugivore	canopy
		L.vociferans	0.713	0.017	frugivore	canopy
		D.pipra	0.699	0.01	frugivore/insectivore	understory
		P.albifrons	0.682	0.011	insectivore	understory
		T.chionurus	0.658	0.014	omnivore	canopy
		Ph.melanocephalus	0.657	0.047	granivore	canopy
		M.longipennis	0.655	0.013	insectivore	understory
		T.erythrurus	0.655	0.002	insectivore	understory
		W.poecilonota	0.654	0.009	insectivore	understory
		P.caica	0.646	0.044	frugivore	canopy
		C.alector	0.646	0.015	frugivore	understory
		C.rubricollis	0.644	0.004	insectivore	canopy
		M.axillaris	0.626	0.028	insectivore	understory
		M.surinamensis	0.598	0.003	insectivore	understory
		V.leucotis	0.598	0.009	insectivore	canopy
		S.turdina	0.571	0.041	insectivore	understory

	one-year post logged	*P.fuscus*	0.647	0.047	frugivore	canopy
		R.simplex	0.627	0.044	insectivore	midstory
		H.perrotii	0.566	0.045	insectivore	all
		P.albus	0.515	0.039	frugivore	canopy
	10-years post logged	*C.variegatus*	0.782	0.001	insectivore	understory
		T.virdis	0.756	0.001	frugivore	canopy
		T.ardesiacus	0.71	0.006	insectivore	understory
		M.gilvicollis	0.675	0.002	carnivore	understory
		A.chloropterus	0.674	0.03	frugivore	canopy
		F.analis	0.653	0.047	insectivore	understory
		M.brachyura	0.588	0.021	insectivore	understory
		S.olivacea	0.535	0.03	omnivore	understory
Bat assemblage	pre-logged	*A. planirostris*	0.675	0.046	frugivore	-
		C.auritus	0.672	0.003	carnivore	-
	10-years post logged	*G.soricina*	0.645	0.008	nectarivore	-

Table S2: Model output for richness response to timeframe only in mist net bird, point count bird and bat indicator species with highest INDVAL value. Non-overlapping credibility intervals (CrI) indicate certain effect.

Method	**Group**	**Species**	**Estimate**	**Est.error**	**95% Cred.Interval**	**Rhat**
Mist-net	Pre-logged	*C.tyrannia*	0.48	0.58	-0.50, 1.75	1.00
		T.caesius	**-1.39**	**0.61**	**-2.70, -0.28**	**1.00**
		M.barbatus	**-1.33**	**1.23**	**-2.70, -0.28**	**1.00**
		S.olivacea	**-11.27**	**9.00**	**-36.43, -2.55**	**1.00**
		T.murinus	**-0.95**	**0.46**	**-1.92, -0.13**	1.00
		X.guttatus	-0.02	0.31	-0.66, 0.57	1.00
		S.mexicanus	**-12.57**	**12.51**	**-44.82, -2.43**	**1.00**
		M.villosus	**-13.65**	**21.84**	**-55.55, -1.64**	**1.00**

	one-year post-logged	*C.tyrannia*	-1.47	0.91	-3.34, 0.24	1.00
		T.caesius	**2.27**	**0.71**	**0.94, 3.76**	**1.00**
		M.barbatus	1.29	1.54	-1.62, 4.37	1.00
		S.olivacea	-0.94	14.38	-32.49, 24.73	1.00
		T.murinus	0.00	0.66	-1.28, 1.31	1.00
		X.guttatus	-0.15	0.47	-1.06, 0.78	1.00
		S.mexicanus	-2.24	33.09	-33.91, 28.35	1.00
		M.villosus	0.23	24.55	-35.27, 36.67	1.00
	10-years post-logged	*C.tyrannia*	-12.65	8.09	-34.39, -3.18	1.00
		T.caesius	0.92	0.77	-0.55, 2.49	1.00
		M.barbatus	**-10.67**	**9.62**	**-34.45, -0.64**	**1.00**
		S.olivacea	**11.62**	**9.01**	**2.84, 36.70**	**1.00**
		T.murinus	**1.33**	**0.53**	**0.33, 2.44**	**1.00**
		X.guttatus	0.79	0.41	-0.01, 1.60	1.00
		S.mexicanus	**12.25**	**12.51**	**1.98, 44.30**	**1.00**
		M.villosus	**13.91**	**21.90**	**1.52, 56.02**	**1.00**
Point-Count	Pre-logged	***H.sticturus***	**1.31**	**0.31**	**0.75, 1.97**	**1.00**
		P.fuscus	**0.71**	**0.21**	**0.30, 1.11**	**1.00**
		C.variegatus	0.28	0.25	-0.22, 0.75	1.00
		T.assimilis	**0.93**	**0.27**	**0.42, 1.49**	**1.00**
		C.spiza	0.65	0.38	-0.04, 1.47	1.00
		R.simplex	-0.19	0.34	-0.89, 0.47	1.00
		H.perrotii	**-1.13**	**0.51**	**-2.22, -0.22**	**1.00**
		T.virdis	**-13.59**	**18.01**	**-52.74, -2.46**	**1.00**
		T.ardesiacus	**0.75**	**0.36**	**0.07, 1.49**	**1.00**
	one-year post-logged	***H.sticturus***	**-14.04**	**13.30**	**-48.27, -3.82**	**1.00**
		P.fuscus	0.35	0.28	-0.20, 0.90	1.00
		C.variegatus	0.10	0.35	-0.58, 0.80	1.00
		T.assimilis	**-12.92**	**10.66**	**-41.77, -3.37**	**1.00**
		C.spiza	**-2.75**	**0.90**	**-4.66, -1.15**	**1.00**
		R.simplex	0.22	0.46	-0.70, 1.15	1.00
		H.perrotii	0.85	0.63	-0.34, 2.16	1.00
		T.virdis	1.39	18.64	-27.94, 36.94	1.00
		T.ardesiacus	-0.49	0.55	-1.57, 0.59	1.00
	10-years post-logged	***H.sticturus***	**-13.48**	**11.30**	**-44.36, -3.80**	**1.00**

		P.fuscus	-0.34	0.32	-0.95, 0.28	1.00
		C.variegatus	**1.15**	**0.30**	**0.57, 1.76**	**1.00**
		T.assimilis	**-12.90**	**12.04**	**-41.35, -3.41**	**1.00**
		C.spiza	**-12.58**	**8.73**	**-35.05, -3.43**	**1.00**
		R.simplex	-0.95	0.61	-2.23, 0.20	1.00
		H.perrotii	-0.02	0.73	-1.50, 1.38	1.00
		T.virdis	-0.49	0.55	-1.57, 0.59	1.00
		T.ardesiacus	0.79	0.51	-0.21, 1.80	1.00
Bats	Pre-logged	*C.auritus*	-0.28	0.33	-0.97, 0.34	1.00
		A.planirostris	**1.41**	**0.26**	**0.91, 1.94**	**1.00**
		G.soricina	-3.25	1.32	-6.30, -1.22	1.00
	one-year post-logged	***C.auritus***	**-2.90**	**1.25**	**-5.76, -0.96**	**1.00**
		A.planirostris	**-0.88**	**0.40**	**-1.70, -0.09**	**1.00**
		G.soricina	2.34	1.42	0.00, 5.49	1.00
	10-years post-logged	***C.auritus***	**-1.94**	**0.88**	**-3.83, -0.41**	**1.00**
		A.planirostris	**-1.06**	**0.42**	**-1.90, -0.28**	**1.00**
		G.soricina	**3.76**	**1.37**	**1.57, 6.88**	**1.00**

Table S3: Model output for richness response to timeframe only in mist net bird assemblage, point count bird assemblage and bat assemblage. Non-overlapping credibility intervals (CrI) indicate certain effect.

Data	Parameter	Estimate	SE	Lower CrI	Upper CrI	Rhat
Mist net bird assemblage	Intercept	3.19	0.06	3.06	3.31	1.00
	timeframepost1	-0.03	0.09	-0.20	0.14	1.00
	timeframepost10	0.00	0.09	-0.16	0.18	1.00
Point count bird assemblage	Intercept	3.97	0.05	3.88	4.06	1.00

	timeframepost1	**-0.21**	**0.07**	**-0.34**	**-0.07**	1.00
	timeframepost10	**-0.21**	**0.07**	**-0.34**	**-0.08**	1.00
Bat assemblage	Intercept	2.45	0.09	2.28	2.63	1.00
	timeframepost1	-0.17	0.14	-0.43	0.10	1.00
	timeframepost10	-0.23	0.14	-0.50	0.04	1.00

Table S4: Model output for richness response to timeframe + harvest buffers in mist net bird assemblage, point count bird assemblage and bat assemblage. Non-overlapping credibility intervals (CrI) indicate certain effect.

Data	**Parameter**	**Estimate**	**SE**	**Lower CrI**	**Upper CrI**	**Rhat**
Mist net bird assemblage	intercept	3.21	0.25	2.74	3.61	1.00
	timeframepost1	0.07	0.24	-0.40	0.52	1.00
	timeframepost10	0.10	0.24	-0.37	0.56	1.00
	buffer100m	0.01	0.02	-0.04	0.05	1.00
	buffer200m	0.00	0.01	-0.02	0.01	1.00
	buffer500m	0.00	0.00	0.00	0.01	1.00
	buffer1000m	0.00	0.00	0.00	0.00	1.00
Point count bird assemblage	intercept	3.97	0.07	3.83	4.11	1.00
	timeframepost1	-0.14	0.16	-0.46	0.18	1.00
	timeframepost10	-0.14	0.16	-0.46	0.18	1.00
	buffer100m	0.00	0.01	-0.03	0.02	1.00
	buffer200m	0.00	0.01	-0.01	0.01	1.00
	buffer500m	0.00	0.00	0.00	0.00	1.00
	buffer1000m	0.00	0.00	0.00	0.00	1.00
Bat assemblage	Intercept	2.49	0.26	1.95	2.98	1.00
	timeframepost1	-0.39	0.34	-1.06	0.26	1.00
	timeframepost10	-0.44	0.34	-1.10	0.22	1.00
	buffer100m	-0.01	0.03	-0.07	0.05	1.00
	buffer200m	-0.01	0.01	-0.04	0.02	1.00
	buffer500m	0.00	0.00	-0.01	0.00	1.00
	buffer1000m	0.00	0.00	0.00	0.00	1.00

Table S5: Model output for feeding guild + Stratification response to timeframe in mist net bird assemblage, point count bird assemblage and bat assemblage. Non-overlapping credibility intervals (CrI) indicate certain effect.

Data	Category	Parameter	Estimate	SE	Lower CrI	Upper CrI	Rhat
Mist net bird assemblage	feeding guild	insectivore_intercept	2.89	0.07	2.75	3.03	1.00
		granivore_intercept	-2.20	0.83	-4.02	-0.79	1.00
		frugivore_intercept	-0.94	0.45	-1.92	-0.11	1.00
		carnivore_intercept	-0.63	0.38	-1.44	0.07	1.00
		omnivore_intercept	0.34	0.24	-0.14	0.77	1.00
		frugivoreinsectivore_intercept	0.56	0.21	0.14	0.95	1.00
		nectarivore_intercept	0.60	0.23	0.12	1.04	1.00
		insectivore_timeframepost1	-0.07	0.10	-0.27	0.12	1.00
		insectivore_timeframepost10	0.06	0.10	-0.13	0.26	1.00
		granivore_timeframepost1	0.50	1.08	-1.53	2.70	1.00
		granivore_timeframepost10	0.00	1.20	-2.41	2.39	1.00
		frugivore_timeframepost1	0.17	0.62	-1.02	1.42	1.00
		frugivore_timeframepost10	-0.46	0.72	-1.93	0.93	1.00
		carnivore_timeframepost1	-0.32	0.59	-1.48	0.83	1.00
		carnivore_timeframepost10	-0.52	0.62	-1.81	0.67	1.00
		omnivore_timeframepost1	0.00	0.33	-0.65	0.65	1.00
		omnivore_timeframepost10	0.14	0.32	-0.50	0.78	1.00
		frugivoreinsectivore_timeframepost1	0.15	0.28	-0.41	0.71	1.00
		frugivoreinsectivore_timeframepost10	0.08	0.29	-0.49	0.65	1.00
		nectarivore_timeframepost1	0.12	0.32	-0.51	0.74	1.00
		nectarivore_timeframepost10	**-0.88**	**0.40**	**-1.68**	**-0.12**	**1.00**
Mist net bird assemblage	stratification	canopy_intercept	0.60	0.21	0.17	1.00	1.00
		midstory_intercept	-0.92	0.43	-1.86	-0.16	1.00
		all_intercept	-0.11	0.29	-0.72	0.44	1.00
		understory_intercept	3.05	0.07	2.92	3.18	1.00
		canopy_timeframepost1	-0.44	0.34	-1.11	0.20	1.00
		canopy_timeframepost10	**-0.64**	**0.36**	**-1.38**	**-0.06**	**1.00**
		midstory_timeframepost1	0.44	0.55	-0.63	1.52	1.00
		midstory_timeframepost10	0.73	0.53	-0.28	1.81	1.00
		all_timeframepost1	0.07	0.41	-0.73	0.89	1.00
		all_timeframepost10	0.21	0.39	-0.55	0.99	1.00
		understory_timeframepost1	-0.02	0.09	-0.20	0.16	1.00
		understory_timeframepost10	0.01	0.09	-0.17	0.19	1.00

Point count bird assemblage	feeding guild	insectivores_Intercept	3.39	0.06	3.27	3.50	1.00
		granivores_Intercept	0.38	0.23	-0.10	0.82	1.00
		frugivores_Intercept	2.68	0.07	2.53	2.82	1.00
		carnivores_Intercept	-1.41	0.56	-2.64	-0.44	1.00
		omnivores_Intercept	1.60	0.13	1.34	1.86	1.00
		frugivore.insectivore_Intercept	-0.11	0.28	-0.70	0.42	1.00
		nectarivore_Intercept	0.11	0.27	-0.45	0.62	1.00
		insectivores_timeframepost1	-0.22	0.09	-0.39	-0.04	1.00
		insectivores_timeframepost10	**-0.25**	**0.09**	**-0.42**	**-0.08**	**1.00**
		granivores_timeframepost1	0.00	0.33	-0.64	0.64	1.00
		granivores_timeframepost10	-0.50	0.37	-1.23	0.20	1.00
		frugivores_timeframepost1	-0.18	0.11	-0.39	0.04	1.00
		frugivores_timeframepost10	-0.18	0.11	-0.39	0.04	1.00
		carnivores_timeframepost1	0.64	0.69	-0.68	2.06	1.00
		carnivores_timeframepost10	**1.30**	**0.64**	**0.15**	**2.64**	**1.00**
		omnivores_timeframepost1	-0.36	0.20	-0.76	0.03	1.00
		omnivores_timeframepost10	-0.19	0.20	-0.57	0.20	1.00
		frugivore.insectivore_timeframepost1	0.00	0.41	-0.80	0.80	1.00
		frugivore.insectivore_timeframepost10	0.34	0.37	-0.39	1.09	1.00
		nectarivore_timeframepost1	-0.59	0.46	-1.53	0.29	1.00
		nectarivore_timeframepost10	**-1.23**	**0.55**	**-2.38**	**-0.21**	**1.00**
Point count bird assemblage	stratification	canopy_Intercept	3.24	0.06	3.12	3.36	1.00
		midstory_Intercept	-0.19	0.30	-0.83	0.36	1.00
		understory_Intercept	3.16	0.06	3.04	3.28	1.00
		all_Intercept	1.09	0.16	0.76	1.40	1.00
		canopy_timeframepost1	-0.27	0.09	-0.44	-0.09	1.00
		canopy_timeframepost10	**-0.26**	**0.09**	**-0.43**	**-0.08**	**1.00**
		midstory_timeframepost1	0.48	0.39	-0.27	1.25	1.00
		midstory_timeframepost10	0.30	0.40	-0.46	1.09	1.00
		understory_timeframepost1	-0.19	0.09	-0.37	0.00	1.00
		understory_timeframepost10	**-0.20**	**0.09**	**-0.38**	**-0.02**	**1.00**
		all_timeframepost1	-0.10	0.24	-0.58	0.36	1.00
		all_timeframepost10	-0.07	0.23	-0.52	0.38	1.00
Bat assemblage	feeding guild	insectivores_Intercept	0.93	0.18	0.57	1.27	1.00
		frugivores_Intercept	1.84	0.12	1.61	2.06	1.00
		carnivores_Intercept	0.03	0.28	-0.55	0.54	1.00
		omnivores_intercept	-0.29	0.32	-0.96	0.30	1.00
		nectarivore_Intercept	-0.49	0.34	-1.21	0.13	1.00
		sanguinivore_Intercept	-1.47	1.58	-3.15	0.36	1.00
		insectivores_timeframepost1	0.21	0.24	-0.26	0.68	1.00

insectivores_timeframepost10	-0.25	0.27	-0.79	0.27	1.00
frugivores_timeframepost1	-0.18	0.17	-0.52	0.16	1.00
frugivores_timeframepost10	-0.09	0.17	-0.41	0.23	1.00
carnivores_timeframepost1	-0.98	0.52	-2.07	-0.01	1.00
carnivores_timeframepost10	**-1.77**	**0.69**	**-3.28**	**-0.55**	**1.00**
omnivores_timeframepost1	-0.66	0.54	-1.78	0.37	1.00
omnivores_timeframepost10	-0.65	0.54	-1.73	0.41	1.00
nectarivore_timeframepost1	-0.12	0.51	-1.14	0.87	1.00
nectarivore_timeframepost10	0.30	0.46	-0.61	1.22	1.00
sanguinivore_timeframepost1	-10.95	13.52	-44.15	-0.39	1.00
sanguinivore_timeframepost10	-11.29	13.99	-47.61	-0.42	1.00

Table S6: Model output for feeding guild response to timeframe + harvest buffers in understory and mid-upper-level bird assemblages and bat assemblage. Non-overlapping credibility intervals (CrI) indicate certain effect.

Method	Parameter	Estimate	SE	Lower CrI	Upper CrI	Rhat
Mist net bird assemblage	insectivore_intercept	2.89	0.07	2.75	3.03	1.00
	granivore_intercept	-1.05	4.90	-4.04	8.87	1.00
	frugivore_intercept	-0.93	0.46	-1.91	-0.11	1.00
	carnivore_intercept	-0.63	0.39	-1.44	0.08	1.00
	omnivore_intercept	0.33	0.24	-0.15	0.78	1.00
	frugivoreinsectivore_intercept	0.56	0.21	0.14	0.95	1.00
	nectarivore_intercept	0.61	0.24	0.12	1.07	1.00
	insectivore_timeframepost1	0.03	0.19	-0.35	0.41	1.00
	insectivore_timeframepost10	0.17	0.19	-0.21	0.54	1.00
	insectivore_buffer100m	0.00	0.02	-0.03	0.03	1.00
	insectivore_buffer200m	0.01	0.01	-0.01	0.02	1.00
	insectivore_buffer500m	0.00	0.00	0.00	0.00	1.00
	insectivore_buffer1000m	0.00	0.00	0.00	0.00	1.00
	granivore_timeframepost1	3.14	18.92	-17.46	37.74	1.01
	granivore_timeframepost10	-1.10	20.08	-38.00	27.57	1.01
	granivore_buffer100m	**-1.73**	**3.62**	**-9.30**	**-0.06**	**1.01**
	granivore_buffer200m	0.71	1.52	-0.05	4.09	1.01
	granivore_buffer500m	**-0.19**	**0.34**	**-1.17**	**-0.01**	**1.01**
	granivore_buffer1000m	0.04	0.10	-0.02	0.27	1.01
	frugivore_timeframepost1	-1.09	1.48	-4.18	1.65	1.00
	frugivore_timeframepost10	-1.75	1.56	-5.03	1.13	1.00
	frugivore_buffer100m	0.00	0.13	-0.25	0.25	1.00
	frugivore_buffer200m	0.05	0.06	-0.06	0.17	1.00
	frugivore_buffer500m	-0.01	0.01	-0.03	0.01	1.00
	frugivore_buffer1000m	0.00	0.00	0.00	0.01	1.00
	carnivore_timeframepost1	-0.58	1.28	-3.23	1.84	1.00
	carnivore_timeframepost10	-0.81	1.26	-3.47	1.53	1.00
	carnivore_buffer100m	-0.15	0.13	-0.43	0.10	1.00
	carnivore_buffer200m	-0.01	0.04	-0.10	0.08	1.00
	carnivore_buffer500m	-0.01	0.01	-0.03	0.02	1.00
	carnivore_buffer1000m	0.00	0.00	-0.01	0.01	1.00
	omnivore_timeframepost1	-0.73	0.68	-2.10	0.57	1.00
	omnivore_timeframepost10	-0.58	0.68	-1.94	0.71	1.00
	omnivore_buffer100m	**0.11**	**0.05**	**0.01**	**0.21**	**1.00**
	omnivore_buffer200m	-0.03	0.02	-0.07	0.01	1.00
	omnivore_buffer500m	0.00	0.00	-0.01	0.01	1.00
	omnivore_buffer1000m	0.00	0.00	0.00	0.00	1.00
	frugivoreinsectivore_timeframepost1	0.67	0.53	-0.37	1.69	1.00
	frugivoreinsectivore_timeframepost10	0.60	0.53	-0.46	1.62	1.00
	frugivoreinsectivore_buffer100m	-0.01	0.04	-0.09	0.08	1.00

	frugivoreinsectivore_buffer200m	0.00	0.02	-0.04	0.04	1.00
	frugivoreinsectivore_buffer500m	0.00	0.00	-0.01	0.01	1.00
	frugivoreinsectivore_buffer1000m	0.00	0.00	0.00	0.00	1.00
	nectarivore_timeframepost1	0.03	0.71	1.36	1.47	1.00
	nectarivore_timeframepost10	-0.99	0.73	-2.45	0.44	1.00
	nectarivore_buffer100m	-0.04	0.06	-0.16	0.08	1.00
	nectarivore_buffer200m	0.00	0.03	-0.05	0.05	1.00
	nectarivore_buffer500m	0.00	0.01	-0.01	0.01	1.00
	nectarivore_1000m	0.00	0.00	0.00	0.00	1.00
Point count bird assemblage	insectivores_Intercept	3.39	0.06	3.26	3.51	1.00
	granivores_Intercept	0.39	0.23	-0.08	0.82	1.00
	frugivores_Intercept	2.68	0.07	2.53	2.83	1.00
	carnivores_Intercept	-1.40	0.54	-2.59	-0.47	1.00
	omnivores_Intercept	1.60	0.13	1.35	1.84	1.00
	frugivore.insectivore_Intercept	-0.11	0.29	-0.71	0.42	1.00
	nectarivore_Intercept	0.11	0.28	-0.45	0.62	1.00
	insectivores_timeframepost1	-0.14	0.18	-0.50	0.21	1.00
	insectivores_timeframepost10	-0.17	0.18	-0.53	0.18	1.00
	insectivores_buffer100m	0.00	0.01	-0.03	0.03	1.00
	insectivores_buffer200m	0.00	0.01	-0.01	0.01	1.00
	insectivores_buffer500m	0.00	0.00	0.00	0.00	1.00
	insectivores_buffer1000m	0.00	0.00	0.00	0.00	1.00
	granivores_timeframepost1	0.21	0.70	-1.16	1.56	1.00
	granivores_timeframepost10	-0.29	0.72	-1.73	1.09	1.00
	granivores_buffer100m	-0.04	0.06	-0.16	0.08	1.00
	granivores_buffer200m	0.04	0.03	-0.02	0.10	1.00
	granivores_buffer500m	0.00	0.01	-0.01	0.01	1.00
	granivores_buffer1000m	0.00	0.00	-0.01	0.00	1.00
	frugivores_timeframepost1	-0.12	0.21	-0.54	0.30	1.00
	frugivores_timeframepost10	-0.12	0.21	-0.54	0.31	1.00
	frugivores_buffer100m	-0.01	0.02	-0.05	0.02	1.00
	frugivores_buffer200m	0.00	0.01	-0.01	0.02	1.00
	frugivores_buffer500m	0.00	0.00	0.00	0.00	1.00
	frugivores_buffer1000m	0.00	0.00	0.00	0.00	1.00
	carnivores_timeframepost1	0.90	1.07	-1.21	3.02	1.00
	carnivores_timeframepost10	1.57	1.02	-0.42	3.57	1.00
	carnivores_buffer100m	0.03	0.08	-0.13	0.19	1.00
	carnivores_buffer200m	-0.03	0.04	-0.10	0.04	1.00
	carnivores_buffer500m	-0.01	0.01	-0.03	0.01	1.00
	carnivores_buffer1000m	0.00	0.00	0.00	0.01	1.00
	omnivores_timeframepost1	-0.52	0.40	-1.34	0.26	1.00
	omnivores_timeframepost10	-0.34	0.40	-1.13	0.43	1.00
	omnivores_buffer100m	-0.01	0.03	-0.08	0.05	1.00
	omnivores_buffer200m	0.02	0.02	0.00	0.06	1.00
	omnivores_buffer500m	0.00	0.00	-0.01	0.00	1.00
	omnivores_buffer1000m	0.00	0.00	0.00	0.00	1.00
	frugivoreinsectivore_timeframepost1	0.75	0.72	-0.68	2.15	1.00
	frugivoreinsectivore_timeframepost10	1.06	0.71	-0.34	2.45	1.00

	frugivoreinsectivore_buffer100m	-0.10	0.06	-0.22	0.02	1.00
	frugivoreinsectivore_buffer200m	0.03	0.03	-0.03	0.09	1.00
	frugivoreinsectivore_buffer500m	0.00	0.01	-0.01	0.01	1.00
	frugivoreinsectivore_buffer1000m	0.00	0.00	-0.01	0.00	1.00
	nectarivore_timeframepost1	-1.23	1.16	-3.64	0.88	1.00
	nectarivore_timeframepost10	-1.88	1.22	-4.47	0.36	1.00
	nectarivore_buffer100m	-0.15	0.10	-0.34	0.03	1.00
	nectarivore_buffer200m	0.05	0.04	-0.02	0.14	1.00
	nectarivore_buffer500m	0.01	0.01	0.00	0.03	1.00
	nectarivore_buffer1000m	0.00	0.00	-0.01	0.00	1.00
Bat assemblage	insectivores_Intercept	0.93	0.18	0.57	1.28	1.00
	frugivores_Intercept	1.85	0.12	1.62	2.08	1.01
	carnivores_Intercept	0.05	0.27	-0.52	0.55	1.00
	omnivores_Intercept	-0.31	0.33	-0.98	0.29	1.01
	nectarivore_Intercept	-0.48	0.34	-1.19	0.14	1.01
	sanguinivore_Intercept	272.34	211.69	1.67	685.44	1.04
	insectivores_timeframepost1	0.12	0.48	-0.85	1.05	1.02
	insectivores_timeframepost10	-0.35	0.49	-1.33	0.60	1.02
	insectivores_buffer100m	-0.03	0.04	-0.11	0.05	1.04
	insectivores_buffer200m	0.01	0.02	-0.03	0.04	1.07
	insectivores_buffer500m	0.00	0.00	-0.01	0.00	1.03
	insectivores_buffer1000m	0.00	0.00	0.00	0.00	1.02
	frugivores_timeframepost1	-0.16	0.31	-0.73	0.46	1.02
	frugivores_timeframepost10	-0.07	0.30	-0.62	0.52	1.02
	frugivores_buffer100m	0.00	0.03	-0.05	0.05	1.03
	frugivores_buffer200m	-0.01	0.01	-0.03	0.01	1.02
	frugivores_buffer500m	0.00	0.00	-0.01	0.00	1.02
	frugivores_buffer1000m	0.00	0.00	0.00	0.00	1.02
	carnivores_timeframepost1	-3.84	1.70	-7.65	-0.90	1.02
	carnivores_timeframepost10	-4.65	1.74	-8.50	-1.57	1.02
	carnivores_buffer100m	-0.27	0.20	-0.71	0.06	1.01
	carnivores_buffer200m	-0.01	0.05	-0.10	0.08	1.02
	carnivores_buffer500m	-0.02	0.01	-0.04	0.01	1.02
	carnivores_buffer1000m	**0.01**	**0.01**	**0.00**	**0.02**	**1.02**
	omnivores_timeframepost1	0.16	1.11	-2.32	2.15	1.02
	omnivores_timeframepost10	0.12	1.09	-2.15	2.08	1.02
	omnivores_buffer100m	-0.05	0.11	-0.29	0.15	1.04
	omnivores_buffer200m	0.02	0.05	-0.07	0.13	1.04
	omnivores_buffer500m	0.00	0.01	-0.02	0.02	1.04
	omnivores_buffer1000m	0.00	0.00	-0.01	0.00	1.04
	nectarivore_timeframepost1	-0.76	0.87	-2.64	0.92	1.01
	nectarivore_timeframepost10	-0.35	0.87	-2.11	1.35	1.01
	nectarivore_buffer100m	0.00	0.08	-0.16	0.15	1.06
	nectarivore_buffer200m	-0.01	0.03	-0.08	0.05	1.05
	nectarivore_buffer500m	-0.01	0.01	-0.03	0.00	1.02
	nectarivore_buffer1000m	0.00	0.00	0.00	0.01	1.03
	sanguinivore_timeframepost1	-258.01	718.13	1960.45	943.81	1.10
	sanguinivore_timeframepost10	-253.78	719.42	1921.27	929.02	1.09
	sanguinivore_buffer100m	-15.84	53.51	-119.10	86.54	1.03

sanguinivore_buffer200m	5.18	22.36	-36.59	52.07	1.03
sanguinivore_buffer500m	-0.98	5.12	-11.33	8.63	1.06
sanguinivore_buffer1000m	-0.05	1.70	-3.44	3.08	1.06

Table S7: Leave-One-Out Cross Validation (LOOCV) test on bird (MN & PC) and bat assemblages response models.

Method	Model	LOOIC	SE	ΔLOOIC	ΔSE	formula
Mist net bird assemblage	m0.bird1	254.8	5.5	0.0	0.0	diversity~timeframe
	m0.bird2	257.5	5.0	-1.4	1.4	diversity~timeframe + buffer100m + buffer200m + buffer500m + buffer1000m
	m1.bird	269.8	5.9	-7.5	2.5	diversity~timeframe + buffer100m + buffer200m + buffer500m + buffer1000m + (UID + management_unit)
	m0.bird4	563.5	15.0	-154.4	6.7	canopy+understory+midstory+all ~timeframe
	m0.bird6	580.6	14.0	-162.9	6.3	canopy+understory+midstory+all ~timeframe+ buffer100m + buffer200m + buffer500m + buffer1000m
	m3.bird	612.2	16.4	-178.7	7.8	canopy+understory+midstory+all ~timeframe+ buffer100m + buffer200m + buffer500m + buffer1000m + (UID|management_unit)
	m0.bird3	835.0	25.5	-290.1	12.2	insectivore + frugivore + carnivore + omnivore + granivore + nectarivore ~ timeframe
	m2.bird	849.5	25.1	-297.4	12.1	insectivore + frugivore + carnivore + omnivore + granivore + nectarivore ~ timeframe + buffer100m + buffer200m + buffer500m + buffer1000m + (UID|management_unit)
	m0.bird5	881.2	33.3	-313.2	16.3	insectivore + frugivore + carnivore + omnivore + granivore + nectarivore ~ timeframe + buffer100m + buffer200m + buffer500m + buffer1000m
Point count bird assemblage	m0.bird1	298.0	7.2	0.0	0.0	diversity~timeframe
	m1.bird	303.7	6.5	-2.9	2.3	diversity~timeframe + buffer100m + buffer200m + buffer500m + buffer1000m + (UID + management_unit)
	m0.bird2	306.7	7.8	-4.4	2.0	diversity ~ timeframe + buffer100m + buffer200m + buffer500m + buffer1000m
	m0.bird5	754.4	11.2	-227.7	3.8	canopy + understory + mid.story + all ~ timeframe
	m0.bird6	779.3	12.9	-240.7	5.0	canopy+understory+midstory+all ~timeframe+ buffer100m + buffer200m + buffer500m + buffer1000m
	m3.bird	788.4	12.5	-245.2	5.2	canopy+understory+midstory+all ~timeframe+ buffer100m + buffer200m + buffer500m + buffer1000m + (UID|management_unit)
	m0.bird3	1050.0	16.9	-376.0	7.6	insectivores + granivores + frugivores + carnivores + omnivores + frugivore.insectivore + nectarivore ~ timeframe
	m0.bird4	1085.5	22.4	-393.8	10.7	insectivores + granivores + frugivores + carnivores + omnivores + frugivore.insectivore + nectarivore ~ timeframe + buffer100m + buffer200m + buffer500m + buffer1000m
	m2.bird	1115.6	22.6	-408.8	11.1	insectivores + granivores + frugivores + carnivores + omnivores + frugivore.insectivore + nectarivore ~ timeframe + buffer100m + buffer200m + buffer500m + buffer1000m + (UID|management_unit)

Bat assemblage	m0.bat	233.4	11.5	0.0	0.0	diversity~ timeframe
	m0.bat2	233.7	11.3	-0.1	1.7	diversity~ timeframe + harvest buffers
	m1.bat	240.1	6.7	-3.3	4.1	diversity ~ timeframe + buffer100m + buffer200m + buffer500m + buffer1000m + (UID|management_unit)
	m0.bat3	623.8	18.3	-195.2	8.4	insectivores + frugivores + carnivores + omnivores + nectarivore sanguinovore ~ timeframe
	m2.bat	662.8	20.5	-214.7	12.1	insectivores + frugivores + carnivores + omnivores + nectarivore ~ timeframe + buffer100m + buffer200m + buffer50mm + buffer100m + (UID+ mangement_unit)
	m0.bat4	681.5	31.2	-224.0	15.8	insectivores + frugivores + carnivores + omnivores + nectarivore sanguinovore ~ timeframe + buffer100m + buffer200m + buffer500m + buffer1000m