

Table S2. Changes in the area (hectares) of secondary succession stages in the Atlantic Forest study site from 1987 to 2023, and the anthropogenic and environmental variables used in the Generalized Linear Model (GLM) analysis. HFP = Human Footprint; SOC = Soil Organic Carbon. Values in bold were generated through forecasting or backcasting.

Year	Secondary succession stage				Anthropogenic variables					Environmental variables		
	Early (ha)	Intermediate (ha)	Late (ha)	Not Observed (ha)	HFP	Farming (ha)	SOC (t/ha)	Birds (%)	Fire (N)	Precipitation (mm)	Temperature (°C)	Wind (km/h)
1987	54.71	335.61	887.4	514.28	2.02	254.59	42.24	17.18	0	1079.64	23.87	3.53
1988	38.43	132.57	701.49	919.51	1.99	260.62	41.93	17.30	1	1055.77	22.24	3.56
1989	35.73	189.00	949.42	617.85	1.95	280.42	41.58	17.43	2	1127.90	23.61	3.42
1990	66.60	244.05	947.79	533.56	1.92	292.97	41.42	17.56	1	1104.04	22.98	3.53
1991	68.48	230.55	1058.41	434.56	1.89	269.95	41.44	17.68	2	1128.17	23.35	3.46
1992	62.80	433.95	766.81	528.44	1.86	271.17	41.54	17.81	3	1152.30	22.73	3.42
1993	36.27	130.32	625.50	999.91	1.83	252.95	41.45	17.93	1	1050.72	23.49	3.30
1994	45.81	216.62	1033.36	496.21	1.80	247.58	41.51	18.06	2	1145.40	23.46	3.57
1995	64.90	362.16	735.44	629.50	1.76	245.18	41.53	18.19	1	1382.04	23.62	4.14
1996	30.42	208.27	576.1	977.21	1.73	250.16	41.44	18.31	2	1602.34	23.09	3.39
1997	39.51	185.85	748.00	818.64	1.70	245.60	41.45	18.44	3	942.84	25.53	3.48
1998	57.60	316.53	1091.88	325.99	1.67	239.57	41.72	18.56	2	1510.68	23.61	3.36
1999	39.60	219.60	594.46	938.34	1.64	240.99	41.81	18.69	3	1026.12	22.77	3.67
2000	65.07	368.72	860.66	497.55	1.61	242.55	41.82	18.82	2	1117.56	23.49	3.90
2001	28.17	151.83	973.09	638.91	2.05	244.19	41.67	18.94	1	1194.36	23.96	3.90
2002	32.31	206.64	1142.89	410.16	2.04	233.63	41.66	19.07	0	1212.36	24.11	3.91
2003	27.45	112.41	713.28	938.86	2.03	208.55	41.84	19.19	1	1635.48	23.76	3.75
2004	45.45	223.83	927.43	595.29	2.03	206.99	41.79	19.32	0	1339.8	22.89	3.39
2005	56.70	253.08	876.07	606.15	2.03	200.72	41.76	19.45	2	1249.32	23.65	3.31
2006	22.59	196.12	588.10	985.19	2.02	198.98	41.81	19.57	1	1107.72	23.18	3.53
2007	28.08	257.04	944.70	562.18	2.02	201.95	41.91	19.70	2	1202.52	23.61	3.56
2008	24.48	129.42	1058.28	579.82	2.03	199.07	41.89	8.05	3	1377.24	22.79	2.91
2009	29.17	272.09	652.29	838.45	2.03	194.18	41.94	15.78	1	1390.92	24.04	3.28
2010	74.52	266.85	673.21	777.42	2.03	190.49	41.90	21.84	2	1297.44	23.85	4.32
2011	23.31	115.74	787.96	864.99	2.03	193.95	41.16	17.38	1	1226.88	23.49	3.24
2012	62.73	267.84	858.52	602.91	2.04	190.66	42.21	5.92	2	1242.12	23.51	3.56
2013	54.54	209.88	684.46	843.12	2.02	190.74	42.64	1.14	1	1520.16	23.81	3.49
2014	20.16	296.01	959.13	516.70	2.02	195.93	42.44	18.77	0	946.08	24.12	3.33
2015	33.30	276.30	858.01	624.39	2.48	200.06	42.39	16.64	3	1017.01	24.97	4.15
2016	39.60	210.06	1034.83	507.51	2.53	199.89	42.45	41.38	1	1532.52	24.23	4.56
2017	28.08	146.97	1130.77	486.18	2.53	203.28	42.41	9.96	2	919.68	24.48	4.43
2018	29.44	110.88	964.00	687.68	2.55	203.12	42.41	1.92	0	1118.76	24.84	4.90
2019	60.74	206.91	705.55	818.80	2.55	197.58	42.40	1.78	3	1186.2	25.23	5.07
2020	66.33	246.42	861.15	618.10	2.56	192.54	42.44	22.55	5	1498.2	24.56	4.80
2021	44.46	235.89	916.89	594.76	2.58	192.14	42.38	3.06	3	915.72	24.21	4.78
2022	33.93	181.62	1083.97	492.48	2.60	192.78	42.42	13.41	1	1168.92	24.17	4.56
2023	41.49	187.01	1004.71	558.79	2.62	193.49	42.40	14.94	6	1122.8	25.03	4.59