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Supplementary material

Aboveground biomass estimation in Amazonian tropical forests: a comparison of aircraft- and GatorEye UAV-borne LiDAR data in the Chico Mendes Extractive Reserve in Acre, Brazil.

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Appendix 1: Aircraft- and GatorEye-systems-derived LiDAR forest structural metrics for the PSP

Table S1. Aircraft-system-derived LiDAR forest structural metrics for the PSP.

Plot	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
HMAX	50.11	40.09	35.63	38.52	40.69	38.86	39.10	43.01	39.92	40.98
HMEAN	20.18	19.57	19.47	17.11	16.10	20.46	18.34	19.29	20.87	22.18
HMODE	22.83	20.86	25.18	16.49	15.49	27.44	23.98	23.01	26.33	21.94
HSD	9.82	7.55	8.36	8.19	8.24	8.46	8.19	8.15	9.15	7.50
HVAR	96.38	57.06	69.97	67.01	67.93	71.65	67.05	66.44	83.75	56.21
HCV	0.49	0.39	0.43	0.48	0.51	0.41	0.45	0.42	0.44	0.34
HIQ	12.77	7.86	12.72	11.32	9.74	12.33	13.02	11.43	13.96	8.69
HSKEW	0.41	-0.31	-0.43	0.26	0.63	-0.52	-0.40	-0.28	-0.47	-0.37
HKURT	3.23	3.25	2.28	2.48	3.27	2.42	2.13	2.58	2.26	3.44
H05TH	4.37	3.99	3.40	3.87	3.59	3.71	3.30	4.04	3.54	7.71

H10TH	7.44	9.27	6.95	6.49	5.79	7.28	5.77	7.28	6.79	13.02
H20TH	11.53	13.94	11.55	10.04	9.22	12.94	9.98	11.79	11.64	16.91
H25TH	13.40	15.68	13.52	11.34	10.52	15.04	12.00	13.55	13.97	18.16
H30TH	14.91	17.04	15.30	12.40	11.66	16.72	13.97	15.24	16.14	19.18
H40TH	17.49	18.93	18.03	14.47	13.73	19.35	17.26	18.38	20.29	20.92
H50TH	20.22	20.44	20.76	16.47	15.43	21.68	19.78	20.43	22.99	22.47
H60TH	22.55	21.56	23.01	18.52	17.01	24.04	22.00	22.33	24.99	24.04
H70TH	24.70	22.77	25.22	21.27	18.98	26.35	24.12	24.06	26.92	25.81
H75TH	26.17	23.54	26.24	22.65	20.26	27.37	25.02	24.97	27.93	26.84
H80TH	27.59	24.74	27.30	24.14	21.88	28.27	25.95	26.12	29.04	28.00
H90TH	31.89	28.68	29.44	28.94	27.46	30.26	28.06	28.99	31.25	31.43
H95TH	38.75	32.54	31.00	32.03	32.41	31.72	29.58	30.92	32.89	34.47
H99TH	47.11	36.13	33.66	35.43	38.47	34.62	31.86	36.48	37.26	38.63
CRR	0.39	0.48	0.53	0.43	0.38	0.51	0.46	0.44	0.51	0.53

Table A1.2. GatorEye-system-derived LiDAR forest structural metrics for the PSP.

Plot	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
HMAX	50.45	39.90	36.18	39.25	40.72	39.14	38.43	43.12	40.37	41.11
HMEAN	25.30	22.78	23.05	20.80	18.84	23.84	22.36	22.92	25.33	25.74
HMODE	23.76	22.61	26.13	18.00	16.13	29.45	27.14	23.73	30.37	23.92
HSD	9.89	6.06	6.76	7.58	7.53	6.89	6.18	6.18	6.94	6.18
HVAR	97.81	36.69	45.76	57.52	56.71	47.53	38.22	38.20	48.16	38.17
HCV	0.39	0.27	0.29	0.36	0.40	0.29	0.28	0.27	0.27	0.24
HIQ	11.04	5.66	9.72	10.63	8.80	9.63	8.34	7.13	8.56	7.75
HSKEW	0.67	-0.20	-0.64	0.11	0.59	-0.66	-0.73	-0.37	-0.75	-0.08
HKURT	3.14	4.29	2.93	2.47	3.19	3.21	3.23	3.70	3.49	3.49
H05TH	5.99	3.85	4.73	4.17	3.64	4.10	4.79	6.11	5.85	9.36
H10TH	11.51	12.71	10.43	8.89	7.97	10.85	10.66	11.55	11.38	16.29
H20TH	14.45	15.97	13.41	11.37	10.21	14.59	13.55	14.55	15.36	18.67
H25TH	17.30	18.98	17.22	14.13	12.85	18.43	17.23	18.38	20.42	20.94
H30TH	18.53	19.81	18.60	15.37	13.88	19.59	18.68	19.58	21.81	21.79
H40TH	19.74	20.56	19.95	16.40	14.75	20.73	19.86	20.48	22.93	22.58
H50TH	22.13	21.80	22.20	18.36	16.25	22.66	21.67	22.22	24.62	24.02
H60TH	23.91	22.67	24.08	20.42	17.68	24.58	23.36	23.55	26.29	25.34
H70TH	25.78	23.41	25.90	22.35	19.50	26.68	24.86	24.65	27.83	26.83
H75TH	28.34	24.59	27.46	24.48	21.57	28.45	26.31	25.95	29.58	28.55
H80TH	29.56	25.46	28.32	25.99	22.67	29.23	27.02	26.71	30.38	29.54
H90TH	31.75	26.90	29.14	27.73	24.16	29.93	27.69	27.66	31.08	30.69
H95TH	42.57	31.18	30.79	31.99	30.16	31.69	29.54	30.24	32.80	34.37
H99TH	46.29	34.17	32.41	33.85	33.45	33.22	30.76	31.91	35.09	36.76
CRR	49.11	36.88	34.30	36.83	38.64	36.13	32.53	37.56	38.30	39.60
HMAX	0.49	0.56	0.63	0.52	0.45	0.60	0.57	0.52	0.62	0.62