

S2 Table. Ecosystem carbon stocks in Liberia, Senegal and Gabon (north and south). Numbers are mean stocks \pm one standard error.

Location/sample site	Carbon stocks (Mg C ha ⁻¹) partitioned into various ecosystem pools					Fraction (%) of total ecosystem C		
	Downed wood	Vegetation	Soil (0-100 cm)	Total soil carbon	Total ecosystem	Downed wood	Vegetation	Soils
Liberia								
NCM1	2.3 \pm 0.6	16 \pm 4	334 \pm 23	843 \pm 53	862 \pm 53	0.3	1.9	97.8
NCT2	3.3 \pm 0.9	64 \pm 13	428 \pm 17	1418 \pm 75	1484 \pm 73	0.2	4.3	95.6
NCT3	12.4 \pm 3.2	162 \pm 28	360 \pm 36	1203 \pm 43	1382 \pm 44	0.9	11.7	87.0
NCM4	2.8 \pm 0.5	36 \pm 6	332 \pm 14	1069 \pm 39	1108 \pm 38	0.3	3.2	96.5
NCM5	1.6 \pm 0.6	6 \pm 1	348 \pm 25	358 \pm 28	366 \pm 29	0.4	1.6	97.8
NCT6	4.2 \pm 1.3	75 \pm 18	309 \pm 31	910 \pm 77	989 \pm 80	0.4	7.6	92.0
MRT7	8.4 \pm 0.5	30 \pm 8	386 \pm 19	1104 \pm 58	1142 \pm 51	0.7	2.6	96.7
MRM8	2.6 \pm 0.5	7 \pm 3	286 \pm 19	530 \pm 37	540 \pm 39	0.5	1.3	98.1
MRT9	8 \pm 3	30 \pm 7	299 \pm 12	710 \pm 51	748 \pm 54	1.1	4.0	94.9
BRM10	2.8 \pm 0.8	5 \pm 2	338 \pm 29	858 \pm 115	866 \pm 116	0.3	0.6	99.1
Senegal								
Mounde	0 \pm 0	11 \pm 2	278 \pm 22	436 \pm 60	448 \pm 59	0.0	2.5	97.3
Baouth	0 \pm 0	12 \pm 2	255 \pm 14	634 \pm 39	646 \pm 40	0.0	1.9	98.1
Diamniadio	0.8 \pm 0.3	62 \pm 25	257 \pm 14	876 \pm 68	940 \pm 89	0.1	6.6	93.2
Djirnda	0.6 \pm 0.2	122 \pm 43	300 \pm 12	811 \pm 32	933 \pm 46	0.1	13.1	86.9
Fambine	2.2 \pm 0.4	83 \pm 20	236 \pm 22	694 \pm 62	779 \pm 71	0.3	10.7	89.1
Sang	0 \pm 0	23 \pm 6	111 \pm 8	273 \pm 15	296 \pm 15	0.0	7.8	92.2

S2 Table (Continued)

Sample site	Carbon stocks (Mg C ha ⁻¹) partitioned into various ecosystem pools					Fraction (%) of total ecosystem C		
	Downed wood	Vegetation	Soil (0-100 cm)	Total soil carbon	Total ecosystem	Downed wood	Vegetation	Soils
Gabon North								
Nzeme	28.5 ± 9.9	187 ± 35	324 ± 22	924 ± 79	1140 ± 107	2.5	16.4	81.1
Mud bank	7.5 ± 1	36 ± 5	401 ± 19	852 ± 29	896 ± 28	0.8	4.0	95.1
Moka	7.6 ± 2.7	104 ± 19	324 ± 16	864 ± 35	975 ± 47	0.8	10.7	88.6
Moka River II	17.2 ± 5.8	206 ± 80	371 ± 26	949 ± 33	1172 ± 59	1.5	17.6	81.0
Bambouchine	16.9 ± 8.8	164 ± 40	333 ± 16	872 ± 20	1053 ± 34	1.6	15.6	82.8
Massotie	12.6 ± 6.9	380 ± 160	315 ± 21	770 ± 41	1163 ± 170	1.1	32.7	66.2
Nzeme River II	28.8 ± 6.7	185 ± 40	346 ± 15	827 ± 43	1041 ± 68	2.8	17.8	79.4
Gabon South								
Jardin du Elephant	41.7 ± 26.7	3 ± 1	98 ± 9	109 ± 16	154 ± 26	27.1	1.9	70.8
Case Shell	2 ± 0.9	25 ± 11	159 ± 39	308 ± 53	335 ± 64	0.6	7.5	91.9
Mwana Mouele	13.5 ± 4.4	75 ± 10	88 ± 17	452 ± 17	541 ± 22	2.5	13.9	83.5
Mwana Mouele South	11.4 ± 2	314 ± 100	57 ± 9	208 ± 34	533 ± 95	2.1	58.9	39.0
Lac Simba Deux	9.7 ± 5.4	221 ± 120	264 ± 45	547 ± 102	778 ± 147	1.2	28.4	70.3
Lac Simba	13.2 ± 3.6	301 ± 65	236 ± 35	511 ± 88	825 ± 135	1.6	36.5	61.9
Lac Sounga Deux	6.9 ± 3	53 ± 21	177 ± 39	332 ± 90	392 ± 96	1.8	13.5	84.7
Lac Sounga	5.6 ± 2.9	156 ± 38	225 ± 15	318 ± 23	480 ± 53	1.2	32.5	66.3
Paga	10.6 ± 6.5	173 ± 88	219 ± 17	300 ± 20	484 ± 72	2.2	35.7	62.0
Ndougou	1.2 ± 0.3	34 ± 11	389 ± 85	838 ± 129	872 ± 132	0.1	3.9	96.1

