

Supplementary Table S1. Estimates of organic carbon stocks ($\text{Mg C}_{\text{org}} \text{ha}^{-1}$) in mangrove above-ground ($\text{AGBC}_{\text{org}} \text{ha}^{-1}$) and below ground root biomass ($\text{BGBC}_{\text{org}} \text{ha}^{-1}$) and soils ($\text{SC}_{\text{org}} \text{ha}^{-1}$) to a depth of 1 m, except where noted. References in which soils were sampled < 1m depth were not included.

Country	Location	$\text{AGBC}_{\text{org}} \text{ha}^{-1}$	$\text{BGBC}_{\text{org}} \text{ha}^{-1}$	$\text{SC}_{\text{org}} \text{ha}^{-1}$	Total $\text{C}_{\text{org}} \text{stock} \text{ha}^{-1}$	Reference
Africa						
Mozambique	Sofala Bay	28.0	25.2	160.0	213.2	1
	Zambezi delta	163.6	47.8	272.6 ^a	484.0	2
Tanzania	Lindi	26.8		301.7 ^b	328.5	3
	Rufiji delta	40.5	21.1	98.6	160.2	4
	Geza	67.0	36.3	311.3	414.6	5
	Mtimbwani	109.7	113.3	461.9	684.9	5
	Mainland	34.7	30.0			6
Kenya	Gazi Bay	37.2	56.2	848.2	914.5	7
		98.2	66.3	640.5	812.6	7
		167.9	83.8	442.1	692.9	7
Ghana	Kakum	106.8	48.3	310.9	466.0	8
	Ellembelle	331.9	42.6			9
	All mangroves	56.6	21.5			10
Ivory Coast	Ébrié Lagoon	128.0				11
	All mangroves	71.6	38.8			10
Benin	All mangroves	41.6	15.8			10
Cameroon	All mangroves	102.2	38.8			10
	Bamusso				2102.1	12
Guinea	All mangroves	59.6	22.7			10
Liberia	All mangroves	62.9	23.9			10
Nigeria	All mangroves	69.2	26.3			10
Sierra Leone	All mangroves	62.7	23.8			10
Togo	All mangroves	42.9	16.3			10
Madagascar	Mahajamba Bay	54.3	32.6			13
	SW coast	73.9		381.0 ^b	454.9	14
	SW coast	46.2		294.6 ^b	340.9	14
	NW coast	107.8	39.0	429.2	576	15
South Africa	Nxaxo estuary	6.7		228.1 ^b	234.8	16
Republic of Congo, Democratic Republic of Congo	All mangroves	537.7	15.1	967.4	1520.2	17
Gabon		130.0	372.0	255.0	757.0	18
	N			866.0	1063.0	19
	S			392.0	539.0	19

Liberia		37.0	571.0	342.0	950.0	18	
Senegal		34.0	401.0	240.0	675.0	18	
Southeast Asia							
Philippines	Bakhawan Natural	147.53	14.15	204.41 ^c	366.09	20	
	Ermita Natural	33.89	14.84	653.27 ^c	702.00	20	
	Dumangas	18.6	6.9	1300.9	1326.4	20	
	Maasim	241.5				21	
	Maasim	169.1				21	
	Maasim	112.2				21	
	Tagbacan	27.2		155.0	182.2	22	
	Maliwaliw	19.4		149.6	169.0	22	
	Bani, Pangasinan				750	23	
	Bantayan Island, Cebu				615	23	
	Cape Verde	84.6			626.7	24, 25	
	Subic Bay				1461	26	
	Palawan	263.8	92.3			27	
	Bohol	149	69.6			28	
	South Luzon	71.3	27.5	450.2	549.0	29	
Myanmar	Ayeyarwady delta	20.7	18.4	167.0	206.1	30	
Indonesia	Banjar	98.7		1564.4 ^d	1663.1	31	
	Bayur	121.9		938.7 ^d	1060.7	31	
	Kadutan	145.9		895.8 ^d	1041.7	31	
	Kanyuran	92.5		611.7 ^d	704.2	31	
	Labu-labu	134.9		811.3 ^d	946.3	31	
	Lerong	84.2		655.8 ^d	740.0	31	
	Muara Berau	112.5		863.4 ^d	975.9	31	
	Rhizo Seleteh	111.3		771.8 ^d	883.1	31	
	Rinding	111.1		810.2 ^d	921.3	31	
	Tunu	163.0		1106.0 ^d	1269.0	31	
	Papua	190.4				32	
	West Papua	86.1	33.5	967.4	1087	33	
	Bintuni	246.6	33.1	1032	1311.7	34	
	Timika	243.0	35.8	964.9	1243.7	34	
	Sembilang	311.8	27.9	979.5 ^f	1319.1	35	
	Cilacap	18.7	2.5	571.6 ^f	592.8	35	
	Kubu Raya	159.0	14.3	620.9 ^f	794.2	35	
	Tanjung Puting	159.5	21.3	1059.2 ^f	1240.0	35	
	Bunaken	111.9	14.9	811.9 ^f	938.4	35	
	Teminabuan	213.8	36.7	660.5 ^f	910.9	35	
	Bintuni	338.4	43.6	1014.8 ^f	1396.9	35	
	Timika	283.0	27.2	965.1 ^f	1275.2	35	
	Teminabuan	155.1	23.3	674.9	853.3	34	
	Sulawesi		111.0	28.2	2063.6 ^f	2202.9	36
			145.8	27.5	560.7	734.0	36
			115.0	9.8	290.2	415.1	36
			68.0	10.5	696.0	774.6	36
		87.4	31.5	740.4	859.3	36	
	97.7	36.9	581.3	716.0	36		

	N. Sulawesi	129.7	50.2			37	
	E. Sulawesi	28.0		626.0 ^b	654.0	38	
	Borneo	78.3	22.4	943.5 ^f	1044.2	36	
		181.7	55.8	1234.5 ^f	1472.0	36	
		196.6	61.9	1049.0 ^f	1307.5	36	
		103.9	32.8	1255.0 ^f	1391.7	36	
		154.8	47.6	813.9 ^f	1016.2	36	
	Mahakam delta, Borneo	163.0	52	1054 ^f	1269	39	
		111.0	26.0	746.0 ^f	883.0	39	
		122.0	31.0	907.0 ^f	1061.0	39	
		135.0	28.0	783.0 ^f	946.0	39	
		113.0	15.0	849.0 ^f	976.0	39	
		84.0	29.0	656.0 ^f	769.0	39	
		146.0	29.0	867.0 ^f	1042.0	39	
		111.0	16.0	795.0 ^f	921.0	39	
		93.0	14.0	598.0 ^f	704.0	39	
	99.0	33.0	1532.0 ^f	1663.0	39		
	Berau, E. Borneo	130.1		485.0 ^b	615.1	40	
	Java	6.5	0.5	430.0 ^c	437.0	36	
		17.1	6.2	713.2 ^f	736.4	36	
	Segara Anakan Lagoon, Java	13.3		288.0 ^b	301.3	40	
	Kongsi Island, Java	74.3		37.0 ^b	111.3	40	
	Sumatra	19.0		684.0 ^b	703.0	38	
		24.0		413.0 ^b	437.0	38	
	Belitung Island				768.3	38	
	Lamongan	93.6		168.2 ^b	261.8	41	
	Karimunjawa Islands	174.81	43.6			42	
	Bali	12.4		678.3	690.7	43	
	All mangroves	146.0	495.0	376.0	1017.0	18	
	Oceanic mangroves	283.0	469.0	458.0	1210.0	18	
Thailand	Koh Klang	84.8		944.7 ^d	1029.5	44	
		Sawi Bay	138.0	142.0	528.0 ^a	808.0	38
			20.0	57.0	502.0	579.0	38
			29.0	127.0	444.0	600.0	38
Malaysia	Selangor	7.1	1.3	616.4	624.8	45	
	Matang, Perak	312.0		1893 ^g	2205.0	38	
		193.0		924 ^g	1117.0	38	
	Matang, Perak	87.0		392 ^d	479.0	38	
		Sungai Haji Dorani	48.2	13.1			46
	Kuala Selangor Nature Park	121.8	3.26			46	
	Johor Park	85.6		342.3 ^b	427.9	47	
	Kelantan	102.5		410.0 ^b	512.5	47	
Vietnam		102	52.7	689.9	844.6	48	

	Can Gio, Mekong delta	298.1	20.6	696.2	1014.9	48
		243.6	12.9	703.2	959.7	48
	Ca Mau, Mekong delta	104.9		622.7	762.2	49
		54.0		1125.0 ^d	1179.0	38
		72.0		907.0 ^d	979.0	38
		153.0		1752 ^d	1904.0	38
	Kien Vang	69	10.8	759.9	889	50
	Can Gio Restored	61.4	8.7	811.7	844.0	50
	Hau Loc	42.2	34.2	233.9	310.3	51
Red River		12.7	146.8		52	
Singapore	NW coast	120.2	45.5	307.4	473.1	53
	Pulau Semakau	25.4	11.2	307.4	344.0	53
	NE coast	69.5	36.0	307.4	412.9	53
	Pulau Ubin	172.1	54.8	307.4	534.3	53
	Chek Jawa	138.0	52.0	307.0	497.0	54
Cambodia	North				957.2	55
	Central				628.9	55
	South				386.2	55
Central and North America and Caribbean						
Costa Rica	Barro	92.9		632.3 ^d		31
	Carapalo	84.0		412.6 ^d		31
	El Beso	69.5		654.3 ^d		31
	Palo Seco	151.0		514.1 ^d		31
	Pelis	109.8		410.5 ^d		31
	All mangroves	101.0	484.0	259.0	845.0	18
Mexico	Cometa	63.0		1249.4 ^d		31
	Vidal	236.0		679.9 ^d		31
	Gallego	78.3		612.0 ^d		31
	Nichupte Lagoon	11.5		47.5 ^d	59.0	56
		14.7		169.6 ^d	184.3	56
		64.9		301.8 ^d		56
	Chiapas	421.1	154.2	505.9	1081.2	57
	Isla Pitaya	176.2	156.6	1166	1498.8	58
	Cayo Culebra	144.9	147.2	508	800.1	58
	Hualaxtoc	105.0	78.0	577	760.0	58
	Laguna Negra	114.2	71.6	496	681.8	58
	Xamach	3.0	8.7	407	418.7	58
	La Raya	7.1	19.0	286	312.1	58
	El Playon	5.3	12.2	426	443.5	58
	Grijava	141.0	65.0	101.2	307.2	59
	Boca Pedro Oeste	149.0	42.0	1615.8 ^e	1806.8	59
	Boca Pedro Este	122.0	32.0	1089.3 ^e	1243.3	59
	Sabalo	174.0	61.0	1445.5 ^d	1680.5	59
	Cometa	63.0	34.0	2002.0 ^d	2099.0	59
	Vidal	236.0	94.0	780.4 ^d	1110.4	59
Gallego	78.0	6.0	717.9 ^d	801.9	59	
	37.7				60	
	134.6				60	

		221.9				60
		12.7				60
	North Pacific	58.9		270.0 ^b	328.9	61
	Central Pacific	117.0		112.2 ^b	229.2	61
	South Pacific	154.8		663.1 ^b	817.9	61
	Gulf of Mexico	152.3		438.1 ^b	590.4	61
	Yucatan Peninsula	76.9		353.8	430.7	61
	La Paz Bay	25.2	0.3			62
	All mangroves	90.0	527.0	343.0	960.0	18
Honduras	Isla de Pajaros	19.0		539.3 ^d		31
	San Lorenzo	20.1		491.6 ^d		31
	Chismuyo	143.9		561.7 ^d		31
	Pacific coast	76.3		500.5 ^d	576.8	63
	Caribbean coast	206.2		1541 ^d	1747.2	63
	Bay Islands	58.7		1492 ^d	1550.7	63
	All mangroves	74.0	509.0	432.0	1015.0	18
USA	eastern Florida	55.0	10.0	57.0	122.0	64
	Tampa, Florida			92.9	133.6	65
	Atlantic coast	49.2	25.2	146.1	220.5	66
	All mangroves	72.0	0	199.0	271.0	18
	SW Florida	67.0		259.0	326.0	67
Belize	All mangroves	40.8		173.8 ^b	214.6	68
		44.0	725.0	493.0	1262.0	18
Dominican Republic	Montecristi National Park	4.5	5.5	713.0	723.0	69
		23.5	23.5	1084	1131.0	69
		121.0	40.0	546.0	707.0	69
	All mangroves	53.0	380.0	420.0	853.0	18
Panama	All mangroves	33.0	365.0	531.0	929.0	18
South America						
Brazil	Acaraú Boca	94.8	9.2	569.9	673.0	70
	Manguezal Caussau	67.0	10.8	603.0	680.8	70
	Manguinho	79.4	15.4	200.2	295.0	70
	Porto Céu	48.1	27.4	53.9	129.4	70
	Quatro Bocas	111.1	10.9	338.5	460.5	70
	Rego Escuro	48.3	12.5	180.6	241.4	70
	All mangroves	125.0	192.0	155.0	473.0	18
	Amazon	145.2	11.7	354.0 ^f	510.9	71
	NE mangrove	72.2	14.5	340.0 ^f	426.7	71
Colombia	All mangroves	79.8				72
		39.4				73

	Cispatá-Tinajones-La Balsa	64.9				74
	Quebrada Valencia	142.5	450.0	130.0	722.5	75
	San Pedro	69.5	258.0	167.0	494.5	75
	Pianguita	109.0	438.5	180.0	727.5	75
Ecuador	Muisne	100.7		407.0	507.7	76
French Guiana				86.0		77
	1-yr old stand	23.6	8.0	76.0	107.6	78
	3-yr old stand	39.7	17.9	81.0	138.6	78
	6-yr old stand	55.2	33.2	104.0	192.4	78
	20-yr old stand	97.8	36.7	128.0	262.5	78
	55-yr old stand	158.2	50.7	224.0	432.9	78
	66-yr old stand	172.5	44.3	282.0	498.8	78
Guyana	Demerara-Mahaica	105.3				79
	Mahaica-Berbice	91.7				79
	East Berbice-Corentyne	273.3				79
	Berbice River	342.6				79
	Demerara River	116.0				79
	Essequibo River	130.0				79
South and East Asia						
India	Sagar south	130.2				80
	Canning	42.0				80
	Kerala	80.2	36.9	81.3	198.4	81
	Kerala	94.6	41.5			82
	Mahanadi	93.2				83
	Bhitarkanika	143.6				83
	Mahanadi	62.5	26.7			84
	Mahanadi plantation	62.8	27.9			84
	Kadalundi	83.3	35.0			85
	Sundarbans				360.1	86
Bhitarkanika				187.0	87	
Bangladesh	Sundarbans	76.8	41.1			88
	Ganges delta	107.4	53.6	386.0 ^f	547.0	36
		60.0	32.3	491.8 ^f	584.1	36
Sri Lanka	Kala Oya	171.7	33.0	376.3	581.0	89
	Batticaloa Lagoon	131.6	27.0	347.8	506.4	90
Japan	Okinawa	35.1	26.9	57.3	119.3	91
	Ishigaki Island	80.7	27.1	251.0	358.8	92
China	Futian Province	64.0	130.0	555.0 ^f	619.0	38
		43.0	94.0	348.0 ^f	391.0	38

		7.0	8.0	325.0	332.0	38	
	Donzhai Harbor				351.4	93	
	Yingluo Bay				306.9	93	
	Dongjiang estuary				162.0	93	
	Hainan Island	109.0	50.3	354.0	513.3	94	
		70.0	10.3	406.2	486.5	9	
Pakistan	Sandspit	93.3	39.0			96	
Middle East							
Saudi Arabia	Farasan Islands			123.0		97	
	Farasan Islands			108.0		97	
	Arabian Gulf			76.0		98	
	Red Sea coast			92.0		99	
Egypt	South Sinai			389.4		100	
United Arab Emirates		37.0	69.0	111.0	217.0	18	
		37.3	24.6	156.3	218.4	101	
		1.9	1.5	102.3	105.7	101	
Iran	Gowatr	21.3	17.3	166.5	205.1	102	
		91.3	155.5	296.1	542.9	102	
		25.7	24.1	219.3	269.1	102	
Australia and New Zealand							
New Zealand	Auckland	40.2				103	
	Whangateau	12.6	18.4	51.5	82.6	104	
	Bayswater	4.0	22.1	104.8	130.9	104	
	Mangere	26.6	17.0	111.6	155.3	104	
	Whangamata	14.2	27.9	57.6	99.7	104	
	Tairua estuary	4.4		41.9 ^b	46.3	105	
Australia	Darwin	113.0		782.0 ^e	895.0	106	
	Hinchinbrook	73.0		1012.0 ^e	1085.0	106	
	Hinchinbrook	297.0	312.0	1530.0 ^h	2139.0	38	
	Seventeen Seventy	41.0		481 ^e	522.0	106	
	Jacobs Well	35.0		543.0 ^e	578.0	106	
	Newcastle	32.0		514.0 ^e	546.0	106	
	Barwon	2.0		541.0 ^e	543.0	106	
	Pilbara	115.0	127.0	621.0 ^c	863.0	38	
	Pilbara	55.0	92.0	515.0	662.0	38	
Pacific Islands							
Yap		262.0	203.0	754.0	1218.0	107	
		140.0	80.4	602.8 ^c	823.2	36	
		205.3	107.8	582.7	895.8	36	
		280.5	190.3	874.9 ^c	1345.7	36	
		246.5	168.3	631.6 ^c	1046.4	36	
		434.8	263.1	1077.6 ^a	1775.4	36	
		Ruunuw	169.2	144.0	728.8 ^c	1042.0	108
		All mangroves	261.0	456.0	460.0	1179.0	18
Palau		131.0	68.0	631.0	830.0	107	
		118.1	67.8	520.6	706.5	36	

	Airai	104.4	80.0	520.6	705.0	108
	All mangroves	118.0	184.0	416.0	718.0	18
Kosrae		247.2	195.9	427.5	870.6	36
		250.1	203.7	1222.3 ^f	1676.0	36
		303.1	194.0	675.3 ^f	1172.4	36
		223.8	86.7	722.3 ^c	1032.8	36
	All mangroves	258.0	509.0	423.0	1188.0	18
Hawaii	Moloka'i	143.3	57.8	177.1	398.2	109
		216.3	99.3	177.8	501.2	109
		178.3	77.8	236.4	492.5	109

^a soil sampled to 200 cm depth.

^b includes both below-ground root C and soil C.

^c soil sampled to 150 cm depth.

^d below-ground root biomass and soil C sampled to 300 cm depth.

^e below-ground root biomass and soil C sampled to 200 cm depth.

^f soil sampled to 300 cm depth.

^g Below-ground biomass and soil C sampled to 400 cm depth.

^h soil sampled to 500 cm depth.

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