

Supplementary information
THE POTENTIAL SOIL ORGANIC CARBON STOCKS IN MANGROVE AREAS OF SINJAI DISTRICT, SOUTH SULAWESI, INDONESIA

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Table S1. Soil properties and carbon stock in the mangrove area of Sinjai District South Sulawesi Indonesia

Site	Depth	n	SBD (g cm^{-3})		SOCC (%)		SOCD (g C cm^{-3})		SOC (Mg C ha^{-1})	
			Mean	SE	Mean	SE	Mean	SE	Mean	SE
StV	0–15	3	0.62	0.07	14.54	0.20	0.09	0.01	134.87	16.11
	15–30	3	0.67	0.04	13.92	0.40	0.09	0.005	139.56	7.32
	30–50	3	0.73	0.04	13.74	0.39	0.10	0.003	199.00	5.30
	Mean	–	0.67	0.03	14.06	0.24	0.09	0.003	157.81	20.64
	Total	9	–	–	–	–	–	–	473.43	–
	p-value		0.34		0.29		0.64		0.01	
TtV	0–15	3	0.65	0.14	14.34	0.47	0.09	0.02	139.65	23.48
	15–30	3	0.75	0.12	14.12	0.37	0.11	0.01	159.13	19.77
	30–50	3	0.77	0.06	13.61	0.35	0.11	0.01	210.35	18.80
	Mean	–	0.72	0.04	14.02	0.22	0.10	0.004	169.71	21.08
	Total	9	–	–	v	–	–	–	509.13	–
	p-value		0.62		0.46		0.74		0.12	
PkV	0–15	3	0.48	0.10	13.74	1.36	0.06	0.01	96.20	11.85
	15–30	3	0.54	0.14	13.36	1.38	0.07	0.02	112.08	37.06
	30–50	3	0.75	0.08	13.05	1.45	0.10	0.02	199.37	38.79
	Mean	–	0.59	0.08	13.38	0.20	0.08	0.01	135.88	32.07
	Total	9	–	–	–	–	–	–	407.65	–
	p-value		0.28		0.94		0.44		0.12	
PmV	0–15	3	0.44	0.10	14.03	0.37	0.09	0.00	91.53	18.93
	15–30	3	0.56	0.05	13.96	0.68	0.08	0.01	119.15	16.68
	30–50	3	0.59	0.07	14.10	0.60	0.08	0.01	167.36	24.90
	Mean	–	0.53	0.05	14.03	0.04	0.08	0.002	126.01	22.16
	Total	9	–	–	–	–	–	–	378.04	–
	p-value		0.40		0.99		0.89		0.10	

End of Table S1

Site	Depth	n	SBD (g cm^{-3})		SOCC (%)		SOCD (g C cm^{-3})		SOC (Mg C ha^{-1})	
			Mean	SE	Mean	SE	Mean	SE	Mean	SE
SjV	0–15	3	0.42	0.13	14.10	0.12	0.06	0.02	88.28	26.14
	15–30	3	0.46	0.04	13.13	0.25	0.06	0.005	90.22	7.28
	30–50	3	0.51	0.02	11.74	0.50	0.06	0.002	118.75	3.27
	Mean	–	0.46	0.03	12.99	0.68	0.06	0.0004	99.08	9.85
	Total	9	–	–	–	–	–	–	297.25	–
	p-value		0.74		0.01		1.00		0.37	
p-value			0.02		0.18		0.002		0.26	
Grand mean			–	0.60	0.05	13.70	0.22	0.08	0.01	413.10
Grand total			45						2065.50	

Note: StV: Samataring village; TtV: Tongke-tongke village; PkV: Panaikang village; PmV: Pasimarannu village; SjV: Sanjai village; n: number of soil sample; SBD: soil bulk density; SOCC: soil organic carbon concentration; SOCD: soil organic carbon density; SOC: soil organic carbon.