

Supporting Information 2

Full dataset and references for the estimation of the model parameters

Table 1: The references, carbon stock estimates, and relevant forest structure parameters used for the estimation of the model parameters

Country	Site	N	AGB/C	BGB/C	SOC	DBH	Height	BA	Stem Density	Reference
Australia	Dampier	2	Y	Y	-	Y	-	-	Y	[1]
Australia	Port Hedland	2	Y	Y	-	Y	-	**	Y	[1]
Australia	Bay of Rest	1	Y	Y	-	Y	-	**	Y	[1]
Australia	Mangrove Bay	1	Y	Y	-	Y	-	**	Y	[1]
Bangladesh	Sundarbans	2	Y	Y	Y	-	-	-	-	[2]
China	Futian Nature Reserve	1	Y	-	-	-	Y	-	-	[3]
China	Futian Nature Reserve	2	Y	Y	Y	Y	-	**	Y	[4]
China	Futian Nature Reserve	1	Y	-	-	Y	Y	Y	Y	[5]
China	Jiulongjiang Estuary	3	Y	-	Y	Y	-	Y	Y	[6]
China	Leizhou Bay	4	Y	Y	-	Y	Y	**	Y	[7]
China	Yingluo Bay	5	Y	Y	Y	-	Y	Y	Y	[8]
F.S. of Micronesia	Kosrae	4	Y	Y	Y	Y*	-	Y*	Y*	[2]
F.S. of Micronesia	Yap	5	Y	Y	Y	Y*	-	Y*	Y*	[2]
India	Sundarbans	5	Y	Y	-	-	-	-	Y	[9]
Indonesia	Awerange	1	Y	-	Y	Y	-	Y	Y	[10]
Indonesia	Bintuni	5	Y	Y	Y	Y*	-	Y*	Y*	[11]

Indonesia	Borneo	5	Y	Y	Y	Y*	-	Y*	Y*	[2]
Indonesia	Bunaken	6	Y	Y	Y	Y*	-	Y*	Y*	[11]
Indonesia	Java	2	Y	Y	Y	-	-	-	-	[2]
Indonesia	Java	1	Y	-	-	**	-	Y	Y	[12]
Indonesia	Kubu Raya	7	Y	Y	Y	Y*	-	Y*	Y*	[11]
Indonesia	Sembilang	6	Y	Y	Y	Y*	-	Y*	Y*	[11]
Indonesia	Sulawesi	6	Y	Y	Y	Y*	-	Y*	Y*	[2]
Indonesia	Tanjung Puting	5	Y	Y	Y	Y*	-	Y*	Y*	[11]
Indonesia	Teminabuan	4	Y	Y	Y	Y*	-	Y*	Y*	[11]
Indonesia	Timika	4	Y	Y	Y	Y*	-	Y*	Y*	[11]
Japan	Manko Wetland	1	Y	Y	-	-	Y	-	Y	[13]
Japan	Manko Wetland	1	Y	Y	-	Y	Y	**	Y	[14]
Japan	Manko Wetland	1	Y	Y	Y	-	Y	-	Y	[15]
Japan	Ishigaki	1	Y	Y	-	-	Y	-	-	[16]
Malaysia	Kuala Selangor	1	Y	Y	-	Y	Y	-	-	[17]
Malaysia	Kuala Selangor	1	Y	Y	-	*	-	*	Y	[18]
Malaysia	Matang Mangrove Reserve	3	Y	-	-	Y	-	**	Y	[19]
Malaysia	Matang Mangrove Reserve	1	Y	Y	-	Y	Y	**	Y	[20]
Malaysia	Sabah	1	Y	-	-	-	-	-	Y	[21]
Malaysia	Sarawak	1	Y	-	-	Y	Y	**	Y	[22]
Malaysia	Sungai Haji Dorani	1	Y	Y	-	*	-	*	Y	[18]

Myanmar	Ayeyarwady Delta	4	Y	Y	-	Y	Y	Y	Y	[23]
Republic of Palau	Palau	1	Y	Y	Y	-	-	-	-	[2]
Philippines	Banacon Island	4	Y	Y	-	Y	Y	-	-	[24]
Philippines	Bugtong-Bato	1	Y	Y	-	-	-	Y	-	[25]
Philippines	Catmon	1	Y	Y	-	-	-	-	-	[26]
Philippines	Poctol	1	Y	Y	-	-	-	-	-	[26]
Philippines	Pedada	1	Y	Y	-	-	-	Y	-	[25]
Singapore	Chek Jawa	10	Y	Y	-	Y	-	-	Y	[27]
Thailand	Krabi River Estuary	7	Y	Y	Y	Y	-	Y	Y	This study
Thailand	Pak Panang	10	Y	Y	Y	Y	-	Y	Y	This study
Thailand	Phuket	1	Y	-	-	-	Y	-	-	[28]
Thailand	Ranong	1	Y	Y	-	Y	-	**	Y	[29]
Thailand	Ranong	2	Y	Y	Y	-	Y	-	-	[30]
Vietnam	An Bien	4	Y	Y	-	Y	Y	Y	Y	[31]
Vietnam	An Minh	5	Y	Y	-	Y	Y	Y	Y	[31]
Vietnam	Ha Tien	4	Y	Y	-	Y	Y	Y	Y	[31]
Vietnam	Hai Phong	3	Y	Y	Y	Y	-	Y	Y	This study
Vietnam	Hon Queo	2	Y	Y	-	Y	Y	Y	Y	[31]
Vietnam	Kien Luong	8	Y	Y	-	Y	Y	Y	Y	[31]
Vietnam	Mui Ca Mao	3	Y	Y	Y	Y	-	*	Y	[32]
Vietnam	Quang Ninh	3	Y	Y	Y	Y	-	Y	Y	This study

Vietnam	Vinh Quang	4	Y	Y	-	Y	Y	Y	Y	[31]
Vietnam	Vam Rang	4	Y	Y	-	Y	Y	Y	Y	[31]
Vietnam	Vam Ray	10	Y	Y	-	Y	Y	Y	Y	[31]

1 AGB/C = Aboveground biomass/carbon; BGB/C = Belowground biomass/carbon; SOC = Soil organic carbon; N = number of observations (plots);
 2 * = Disaggregated forest structure parameters were obtained from the authors; ** = Value was (i) calculated algebraically given other data inputs,
 3 or (ii) adjusted to appropriate units

4 References

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