Supplementary Information

Population density estimation of meso-mammal carnivores using camera traps without the individual recognition in Maduru Oya National Park, Sri Lanka

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Table S1: Checklist of meso-mammal carnivores in Sri Lanka

Order	Common Name	Scientific name
Carnivora	Brown mongoose	*Urva fuscus*
	Ruddy mongoose	*Urva smithii*
	Stripe-necked mongoose	*Urva vitticollis*
	Grey mongoose	*Urva edwardsii*
	Golden palm civet	*Paradoxurus zeylonensis*
	Ring-tailed civet (Small Indian civet)	*Viverricula indica*
	Common palm civet	*Paradoxurus hermoproditus*
	Golden jackal	*Canis aureus*
	Fishing cat	*Prionailurus viverrinus*
	Rusty-spotted cat	*Prionailurus rubiginosus*
	Jungle cat	*Felis chaus*
	Otter	*Lutra lutra*

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Table S2: Distance – Angle Chart

Angle (radians)							Linear Distance (m)					
1.8	1.5	1.2	0.9	0.6	0.3		0.3	0.6	0.9	1.2	1.5	1.8
0.294564	0.244360	0.194778	0.145676	0.096926	0.048406	6.2	6.207254	6.228965	6.264982	6.315061	6.378871	6.456005
0.310027	0.257059	0.204819	0.153140	0.101871	0.050869	5.9	5.907622	5.930430	5.968249	6.020797	6.087693	6.168468
0.327238	0.271168	0.215960	0.161414	0.107349	0.053597	5.6	5.608030	5.632051	5.671860	5.727128	5.797413	5.882176
0.346516	0.286940	0.228396	0.170638	0.113451	0.056634	5.3	5.308484	5.333854	5.375872	5.434151	5.508176	5.597321
0.368268	0.304693	0.242366	0.180986	0.120290	0.060036	5	5.008992	5.035871	5.080354	5.141984	5.220153	5.314132
0.393019	0.324831	0.258178	0.192679	0.128009	0.063873	4.7	4.709565	4.738143	4.785394	4.850773	4.933559	5.032892
0.421458	0.347884	0.276227	0.205999	0.136790	0.068235	4.4	4.410215	4.440721	4.491102	4.560702	4.648656	4.753946
0.454513	0.374550	0.297031	0.221314	0.146869	0.073236	4.1	4.110961	4.143670	4.197618	4.272002	4.365776	4.477723
0.441171	0.375437	0.305695	0.232511	0.156596	0.078784	3.8	3.811824	3.847077	3.905125	3.984972	4.085340	4.204759
0.540175	0.442911	0.349957	0.260064	0.172280	0.085820	3.5	3.512834	3.551056	3.613862	3.700000	3.807887	3.935734
0.597406	0.487875	0.384397	0.285096	0.188616	0.093888	3.2	3.214032	3.255764	3.324154	3.417601	3.534119	3.671512
0.551608	0.475568	0.391689	0.300751	0.203994	0.103634	2.9	2.915476	2.961419	3.036445	3.138471	3.264966	3.413210
0.764682	0.614957	0.479729	0.353468	0.232868	0.115642	2.6	2.617250	2.668333	2.751363	2.863564	3.001666	3.162278
0.898845	0.710449	0.548888	0.402049	0.263923	0.130807	2.3	2.319483	2.376973	2.469818	2.594224	2.745906	2.920616
–	0.848062	0.643501	0.466765	0.304693	0.150568	2.0	2.022375	2.088061	2.193171	2.332381	2.500000	2.690725
–	–	0.783668	0.557907	0.360713	0.177400	1.7	1.726268	1.802776	1.923538	2.080865	2.267157	2.475884
–	–	–	0.698222	0.442911	0.215960	1.4	1.431782	1.523155	1.664332	1.843909	2.051828	2.280351
–	–	–	0.958242	0.576931	0.276227	1.1	1.140175	1.252996	1.421267	1.627882	1.860108	2.109502
1.8	1.5	1.2	0.9	0.6	0.3	**Distance (m)**	0.3	0.6	0.9	1.2	1.5	1.8