

Table S1. Summary of all 63 peer-reviewed publications describing the use of canopy camera-traps to study arboreal mammals. Results obtained via Web of Knowledge in February 2021 using the search terms "camera trap" AND "arboreal", and, separately, "camera trap" AND "canopy", with time-period set to all years. A summary of our study appears on the top row for comparison. Tildes (~) denote where number of camera-trap nights (CTN) was not explicitly stated, but could be estimated from the number of camera-traps and sampling period reported in the study.

	Reference Main focus		Country	Canopy camera-trap number (n), height range (h) & bait/lure use	Other sampling	Forest type	No. CTN Canopy	No. CTN Terrestrial	No. mammal species detected (multi-species studies only)
	This study	Inventory, Method, Disturbance effects Canopy & terrestrial camera traps to inventory mammal communities of unlogged & logged forest	Malaysia (Borneo)	n = 69 h = 9.8-52.3 m	Terrestrial cameras n = 49	Tropical lowland-hill rainforest	10565	6661	Total = 57 Canopy only = 18 Terrestrial only = 30 Both heights = 9
1	Azcarraga et al. 2020	Activity Activity patterns of arboreal mammals	Mexico	n = 9 h = 8-12 m	n/a	Semi- deciduous tropical rainforest	2664	n/a	Total = 12
2	Chan et al. 2020	Bridge use Canopy bridge use by critically endangered Hainan gibbon <i>Nomascus</i> <i>hainanus</i>	China	n = 1 h = 7-10 m	n/a	Seasonal tropical rainforest	~1170	n/a	n/a
3	Debruille et al. 2020	Species presence Canopy cameras to improve detection of binturongs (<i>Arctictis binturong</i>)	Philippines	n = 15 h = 1.7-18 m	n/a	Logged tropical forest	2973	n/a	n/a
4	Fang et al. 2020	Species presence	China	n = 30			~5400	n/a	

		Canopy cameras confirm range extension for critically endangered western black crested gibbon <i>Nomascus concolor</i>		h = 8-15 m	Line transects, interviews, call monitoring	Temperate montane forest			Presence suspected from call recordings & interviews, identity confirmed by cameras. Species not detected by transects.
5	Hongo et al. 2020	Inventory Using multi-layer (terrestrial, <15 m & >15 m) camera trapping to inventory mammals. Medium and large mammals only.	Cameroon	n = 150 h = 4-24 m	Terrestrial cameras n = 88	Evergreen & semi- deciduous rainforest	5404	2901	Total = 40 Canopy cameras only = 8^* *including 4 previously unknown from area Terrestrial cameras only = 22 Both heights = 10
6	Laughlin et al. 2020	Behaviour Seasonal behaviour of white-footed mouse, <i>Peromyscus leucopus</i> & deer mouse, <i>P. maniculatus</i>	USA	n not stated $h = 8-24 m$	Terrestrial live trapping to mark species	Temperate - pine	8491	n/a	n/a
7	Linden et al. 2020	Bridge use Canopy bridge use by samango monkey <i>Cercopithecus albogularis</i>	South Africa	n = 10 h = 3-4.5 m	Behaviour observations	Disturbed evergreen forest / road	480	n/a	n/a
8	Linnell & Lesmeister 2020	Behaviour (multi-taxa) Predator-prey interactions in the canopy (mammals & birds)	USA	n = 168 h = 12-20 m	n/a	Temperate forest	~110,595	n/a	4 mammal species 3 bird species
9	Moore et al. 2020	Inventory, Method Canopy camera traps, terrestrial camera traps & line transects	Rwanda	n = 54 h = 4-17 m	Terrestrial cameras n = 50 Line transects (total distance = 118.23 km)	Montane tropical forest	~1620	~1560	Total = 35 Canopy cameras only = 7^* *including 1 previously unknown from area (see Moore & Niyigaba 2018) Terrestrial cameras only = 15 Both heights = 10 Transects = 11

10	Nekaris et al. 2020	Bridge use Canopy bridge use between forest fragments	Indonesia (Java)	n = 20 h = 1-8 m	n/a	Agricultural/ montane rainforest	2206	n/a	19 species of mammals & birds, number in each category not stated
11	Tongkok et al. 2020	Behaviour Arboreal & terrestrial camera traps to monitor frugivory	China & Thailand	n not stated h not stated	Terrestrial cameras, number not stated	Tropical forest	Not stated	Not stated	Total = 26 Number on canopy vs terrestrial cameras not stated
12	Balbuena et al. 2019	Bridge use Canopy bridge use over gas pipeline	Peru	n = 14 h = 21.5-32.5 m	n/a	Tropical rainforest	4593	n/a	Canopy = 16
13	Birot et al. 2019	Bridge use Canopy bridge use by Javan slow loris <i>Nycticebus javanicus</i>	Indonesia (Java)	n not stated h = 2-8 m	Observations	Agroforest in montane rainforest	1561	n/a	n/a
14	Kaizer 2019 (PhD thesis)	Method Canopy camera traps vs line transects for primate monitoring	Brazil	n = 16 h = 7.5-16 m	Line transects (total distance ~200 km)	Montane forest	2613	n/a	Both methods detected 3 of 5 primate species known from the area
15	McComb et al. 2019	Behaviour Monitoring predation of critically endangered Leadbeater's possum <i>Gymnobelideus leadbeateri</i> at nest boxes by feral cats	Australia	Information not available	Stomach content analysis of cats	Information not available	n/a	n/a	n/a
16	Whitworth et al. 2019a	Inventory, Disturbance effects Canopy & terrestrial cameras in protected & non-protected areas. Med-large mammals only	Peru	n = 145 h = 3.5-30 m	Terrestrial cameras n = 77	Tropical rainforest	20364	11253	Total = 46 Canopy only = 20 Terrestrial only = 22 Both heights = 4
17	Whitworth et al. 2019b	Behaviour Sleeping site use & role in seed dispersal of Geoffroy's spider monkey <i>Ateles geofroyii</i>	Costa Rica	n = 39 h not stated	Follows to find sleeping sites & Terrestrial cameras, n = 56	Tropical rainforest, varying disturbance levels	1055	2287	n/a
18	Suzuki & Ando 2019	Species presence	Japan	n = 154	n/a		4620	n/a	n/a

		Effective rapid survey for endangered Japanese flying squirrel <i>Pteromys</i> momonga		h = 2-3 m		Temperate: conifer- broadleaf			
19	Godoy- Guinao et al. 2018	Behaviour Confirming arboreal habits & investigating functional role of small arboreal marsupial <i>Dromiciops</i> <i>gliroides</i>	Chile	n = 6 h = 12-21 m	n/a	Temperate forest	~720	n/a	n/a
20	Lama 2018 (Masters thesis)	Species presence, Method, Activity (as part of wider terrestrial camera study), comparing the effectiveness of canopy vs. terrestrial cameras to survey red panda <i>Ailurus fulgens</i>	Nepal	n = 19 h = <10 m	Terrestrial cameras n = 19	Montane forest	~810	~810	Canopy cameras = 807 photos of target species Terrestrial cameras = 96 photos of target species
21	Mella et al. 2018	Behaviour Canopy cameras provide first evidence of tree climbing in red fox <i>Vulpes vulpes</i>	Australia	n = 10 h = 2.3 m	n/a	Not stated	Not stated	n/a	n/a
22	Moore & Niyigaba 2018	Species presence Canopy cameras provide first record of Central African oyan <i>Poiana</i> <i>richardsonii</i> in Rwanda	Rwanda	n = 54 h = 6-10 m	n/a	Montane rainforest	~4200	n/a	Records of up to 8 individual <i>P.richardsonii</i>
23	Ribeiro- Silva et al. 2018	Behaviour (multi-taxa) Canopy cameras a viable tool for monitoring nest predation of birds, by birds & mammals, in a tropical rainforest environment	Brazil	n = 68 h not stated	n/a	Atlantic Forest - submontane rainforest	2604	n/a	Predator species: 6 mammals (including small- bodied <1 kg) & 6 birds
24	Yang et al. 2018	Species presence Using canopy cameras with other methods to confirm the presence of, and study a new population of critically endangered Myanmar snub- nosed monkey <i>Rhinopithcus strykeri</i>	China	n not clear h = 15-20 m	Terrestrial cameras, n not stated; transects & follows, faeces analysis	Temperate montane forest	Not stated	Not stated	Images of species obtained, along with observations & faeces samples from follows
25	Fang et al. 2018	Monitoring (multi-taxa) Canopy & terrestrial cameras to monitor mammals & birds (abstract only – paper in Chinese language)	China	n = 10 h = 5-10 m	Terrestrial camera traps n = 10	Temperate montane forest	~1150	~1150	Total = 20 Canopy only = 3 Terrestrial only = 9 Both heights = 8

26	Aziz et al. 2017	Behaviour Canopy camera traps to confirm role of island flying fox <i>Pteropus</i> <i>hypomelanus</i> in durian pollination	Malaysia (Peninsular)	n = 13 h = 2-20 m	n/a	Fruit orchard (durian)	~702	n/a	Total = 5 (target + 4 additional species)
27	Bowler et al. 2017	Inventory, Method Canopy camera traps vs line transects. Medium-large arboreal mammals only.	Peru	n = 42 h = 16.6-29.9 m	Transects (total distance = 2014 km)	Lowland tropical rainforest, historic logging & hunting	3147	n/a	Total = 19 Canopy cameras only = 6 (<i>including 1</i> <i>previously</i> <i>unknown from area</i>) Transects only = 1 Both methods = 12
28	Gregory et al. 2017	Bridge use Canopy bridge use over gas pipeline	Peru	n = 25 h = 13.5-33.7 m	Terrestrial cameras n = 112	Tropical rainforest	7102	7154	Total = 40 Canopy only = 19 Terrestrial only = 15 Both heights = 6
29	Loria & Mendez- Carvajal 2017	Behaviour Use of habitat and activity pattern of whitefaced monkey <i>Cebus imitator</i> (abstract only – paper in Spanish)	Panama	n not stated h = 8-10 m	Direct observations	Coffee agroforest	3233	n/a	n/a
30	Suzuki & Ando 2017	Activity Seasonal changes in activity pattern of Japanese flying squirrel <i>Pteromys</i> <i>momonga</i>	Japan	214 locations h = 2-3 m	n/a	Temperate forest	7317	n/a	n/a
31	Boulerice & Van Fleet 2016	Species presence Canopy cameras & bait tubes to detect northern flying squirrel <i>Glaucomys sabrinus</i>	USA	n not stated h = 1.5 m bait used	n/a	Temperate pine	6640	n/a	n/a
32	Cotsell & Vernes 2016	Behaviour (multi-taxa) Examining tree hollow use by birds, mammals & reptiles	Australia	n = 80 h =< 25 m	n/a	Eucalyptus forest	1158		9 mammals 21 birds 8 reptiles
33	Goldingay & Taylor 2016	Bridge use Canopy bridge use in urban area by koala <i>Phascolarctos cinereus</i>	Australia	n = 10 h = 5 m	n/a	Eucalyptus	Not stated	n/a	Total = 4 (target + 3 additional species)
34	Mills et al. 2016	Species presence Canopy cameras & footprint tracking for small & elusive hazel dormouse	UK	n = 5 $h = \sim 2.5 m$ bait used	n/a	Temperate oak/mixed woodland	405	n/a	n/a

Muscardinus avellanarius & wood mouse Apodemus sylvaticus 35 Suzuki et al. Activity 2016 Diurnal activity of juvenile Russian n = 1 ~26 Japan n/a Temperate n/a n/a flying squirrels Pteromys volans h = 2.6 mforest 36 Whitworth **Inventory**, Method Canopy cameras vs line transects & Total = 24et al. 2016 Peru Total n = 30: Disturbed 2929 Transects n/a incidental observations. Medium-(total distance tropical Canopy cameras = 18large arboreal mammals only. h =10 m = ~78 km) rainforest -(6 exclusive to method, 1 previously (n = 15)& incidental some h = 18.4-33 mlogging & observations *unknown from area*) Transects = 13(n = 15)from yearhunting round surveys (1 exclusive to *method*) Observation = 18(5 exclusive to *method*) 37 Gregory et Species presence, Behaviour, al. 2015 n not clear (part Live trapping Tropical 7198 Records represent Activity Peru n/a Confirming range extension & range extension of of larger study, mid-canopy rainforest describing activity & behaviours of see Gregory et 900 km streaked dwarf porcupine Coendou al. 2014, 2017) ichillus h not stated Behaviour (multi-taxa), Method 38 Rivas-Romero & Canopy camera traps as a method of Guatemala n = 8n/a Tropical 902 n/a 3 mammal species Sotoexamining frugivory in birds and h = 10-15 mcloud forest 9 bird species Shoender mammals 2015 Soanes et al. Bridge use 39 Monitoring use of bridges & glider 5 species confirmed 2015 Australia Transponder Agricultural 3929 n = not clearn/a poles across a highway by arboreal h = 4-18 mtags & readers land & to use crossing marsupials multi-lane structures highway Yokochi & 40 Bridge use Rapid habituation to rope bridge by Bencini Australia n = 1Live capture Peppermint 270 n/a n/a 2015 endangered western ringtail possum h = 8.5 m& transponder trees across Pseudocheirus occidentalis tagging major road Fonturbel et 41 Activity n/a Chile al. 2014 Activity pattern of monito del monte, n = 25Temperate 5012 n/a n/a Dromiciops gliroides (small arboreal rainforest & h not stated marsupial) bait used

						Eucalyptus plantations			
42	Gregory et al. 2014	Method, Bridge use First major study on canopy camera effectiveness in context of monitoring canopy bridges over gas pipeline	Peru	n = 25 h = 13.5-33.7 m	n/a	Tropical rainforest	3608	n/a	Total = 20
43	Harley et al. 2014	Species presence Canopy cameras to detect cryptic Leadbeater's possum, <i>Gymnobelideus</i> <i>leadbeateri</i>	Australia	n = 15 h = 3-4 m bait used	n/a	Eucalyptus forest	1519	n/a	Total = 5 (target + 4 additional species)
44	Mendez- Carvajal 2014	Method Testing system of setting canopy cameras without need to climb trees	Panama	n = 13 h = 8-18 m	n/a	Tropical montane forest	232	n/a	Canopy only = 10
45	Goldingay et al. 2013	Bridge use Arboreal mammals use of rope bridges across a major highway	Australia	n not stated h not stated	n/a	Not stated	Not stated	n/a	Total = 4
46	Soanes et al. 2013	Bridge use Effectiveness of road-crossing mitigation for squirrel glider Petaurus norfolcensis	Australia	n = 7 h = 6-14 m	Radio-tracking & transponder tags	Agricultural land & highway	1806	n/a	n/a
47	Tan et al. 2013	Activity Canopy cameras reveal nocturnal activity in presumptive diurnal primate: Guizhou snub-nosed monkey <i>Rhinopithecus brelichi</i>	China	n = 2 h = 5-6 m	n/a	Temperate evergreen & broadleaf forest	294	n/a	n/a
48	Teixeira et al. 2013	Bridge use Monitoring wildlife use of road overpasses in fragmented urban landscapes.	Brazil	n = 6 h not stated	Community observational monitoring	Semi- deciduous seasonal forest patches & roads	689	n/a	Camera traps = 3 Community observation = 2 (same species as cameras)
49	Wahyudi & Stuebing 2013	(Primarily terrestrial) Wildlife monitoring in mixed use landscape	Indonesia (Borneo)	n = 17 h = 10-12 m lure used	Terrestrial cameras n = 40 lure used	Disturbed forest & oil palm	424	8204	Total = 33 Canopy only = 8 Terrestrial only = 23 Both heights = 2
50	Cassano et al. 2012	Disturbance effects	Brazil	n = 18 h = 3-4 m	Terrestrial cameras		~2000	~2000	Total = 22 $Canopy = 6$

		Mammal use of agroforest vs forest: canopy & terrestrial camera traps. Large-bodied species only.		bait used	n = 18	Logged forest & agroforest			Terrestrial = 16
51	Dalloz et al. 2012	Behaviour Climbing behaviour in bare-tailed woolly opossum, <i>Caluromys</i> <i>philander</i>	Brazil	n = 10 h = 2.5-5 m	n/a	Montane forest	~3650	n/a	Total = 10 (target + 9 additional species)
52	Olson et al. 2012	Species presence Validate sightings of greater bamboo lemur, <i>Prolemur simus</i> (critically endangered)	Madagascar	n = 7 h = 2-14 m	n/a	Tropical rainforest	231	n/a	n/a
53	Van Berkel et al. 2012	(Primarily terrestrial) Biodiversity survey	Indonesia (Borneo)	n = 2 h not stated	Terrestrial cameras n = 25	Tropical rainforest	7	570	Total = 26 Canopy only = 2 Terrestrial only = 24
54	Weston et al. 2011	Bridge use Canopy bridge use over roads	Australia	n not stated h = 7-8 m	Observation, scat collection, hair funnels	Tropical rainforest	Not stated	n/a	Total on cameras = 7 Detected by other methods but not cameras = 2
55	Oliveira- Santos et al. 2008	Activity Activity patterns of small arboreal mammals	Brazil	n = 3 h = 3-6 m bait used	Terrestrial cameras (data from different study) n = 14	Atlantic Forest	Not stated	Not stated	Canopy cameras = 11 (Terrestrial cameras targeted only 1 species)
56	Forsman & Swingle 2007	Behaviour (multi-taxa) Use of arboreal tree vole <i>Arborimus</i> <i>spp</i> . nests by amphibians	USA	n = 3 h not stated	n/a	Temperate forest	Not stated	n/a	n/a
57	Jayasekara et al. 2007	Behaviour Using canopy and terrestrial camera traps to study frugivory at fruiting trees	Sri Lanka	n = 15 h <35 m bait used	Terrestrial cameras n = 15	Tropical lowland rainforest	Not stated	Not stated	Total = 14 Canopy only = 5 Terrestrial only = 6 Both = 3
58	Malt & Lank 2007	Behaviour, Activity (multi-taxa) Nest predation & activity patterns of marbled murrulet <i>Brachyramphus</i> <i>marmoratus</i> , red squirrel <i>Tamiasciurus hudsonicus</i> & deer mice <i>Peromyscus spp</i> .	Canada	n = 136 $h = 25 \pm 7 m$	Artificial nests constructed	Temperate forest	Not stated	n/a	n/a

59	Schipper 2007	Method Camera trap avoidance by kinkajous, <i>Potos flavus</i>	Costa Rica	n = 1 h = 15 m	n/a	Moist forest	20	n/a	n/a
60	Goosem et al. 2005	Bridge use Testing the effectiveness of rope overpasses & faunal underpasses for wildlife connectivity across a road	Australia	n = ~3 h = 7-7.5 m	Overpasses: Spotlighting, hair & scat collection; Underpasses: Sand-tracks, roadkill, occasional camera use	Highland rainforest & road	Not stated	Not stated	6 arboreal species detected by cameras, 7 detected by scat collection, 4 by spotlighting, 2 by hair sample
61	Hirakawa 2005	Method Testing a new bat lure	Japan	n = 40 h = 1.5 m lure used	n/a	Temperate forest	~400	n/a	n/a
62	Kierulff et al 2004	Species presence Surveying buff-headed capuchin, <i>Cebus xanthosternos</i> (endangered & elusive)	Brazil	n not stated h = 2 m bait used	n/a	Atlantic Forest	Not stated	n/a	n/a
63	Otani 2001	Behaviour Measuring fig foraging by Yakushima macaque, <i>Macaca fuscata</i> <i>yakui</i>	Japan	$\begin{array}{l} n=7\\ h=10 \ m \end{array}$	n/a	Temperate forest	~77	n/a	n/a

Table S2. Mammal species recorded by camera-traps in terrestrial and canopy strata in unlogged and logged forest (noted in parentheses where the detections contradict available knowledge from field guides). Species are grouped according to: IUCN threat status ('threatened' = categories Vulnerable, Endangered or Critically Endangered; 'not threatened' = Near Threatened, Least Concern or Data Deficient); body size (small <1 kg, medium 1-5 kg, large >5 kg); and broad taxonomic group (with elephant included in 'ungulates' and pangolin with 'Insectivora', according to closest relatives and/or feeding strategy). Species names in parentheses are those detected only by our experimental second canopy camera-traps (Bornean pygmy squirrel and Temminck's flying squirrel). Species shaded grey are those thought to be present at our sampling locations and likely detectable using camera-traps, but not detected in this study. Assumption of presence and detectability was based on known body size, geographic distribution, elevation range, habitat preferences (information obtained from Payne & Francis 2007, and the IUCN Red List, accessed February 2021), as well as data from live-trapping studies at our sampling locations (S. Heon, *pers. comm.*). *Asterisks denote species endemic to Borneo. Note that Brooke's squirrel was previously known only from mountains outside of our sampling locations, and our records here likely reflect a range expansion. Three species frequently detected by canopy camera-traps, but recorded once each on terrestrial camera-traps, were classed as arboreal in line with available knowledge and considering the one-off nature of these records in the context of our extensive sampling period. These species were: Thomas' flying squirrel (1 terrestrial record, 58 canopy records), Sabah grey langur (1 terrestrial record, 98 canopy records) and maroon langur (1 terrestrial record, 230 canopy records).

Order	Family	Species	Forest type: Detected vs. (presumed, where different)	Strata: Detected vs. (presumed, where different)	IUCN Threat Status	Body Size	Taxonomic Group
Carnivora	Felidae	Catopuma badia*	n/a	n/a	threatened	medium	Carnivora
		Borneo bay cat*	(both)	(terrestrial)			
		Neofelis diardi	Both	Terrestrial	threatened	large	Carnivora
		Sunda clouded leopard		(semi-arboreal)			
		Pardofellis marmorata	Both	Terrestrial	not	medium	Carnivora
		Marbled cat		(semi-arboreal)	threatened		
		Prionailururs bengalensis	Both	Terrestrial	not	medium	Carnivora
		Leopard cat			threatened		
		Prionailurus planiceps	n/a	n/a	threatened	medium	Carnivora
		Flat-headed cat	(both)	(terrestrial)			
	Herpestidae	Herpestes brachyurus	Both	Terrestrial	not	medium	Carnivora
		Short-tailed mongoose			threatened		

		Herpestes semitorquatus Collared mongoose	Unlogged (both)	Terrestrial	not threatened	medium	Carnivora
	Mustelidae	Martes flavigula Yellow-throated marten	Both	Semi-arboreal	not threatened	medium	Carnivora
		<i>Mustela nudipes</i> Malay weasel	n/a (both)	n/a (terrestrial)	not threatened	medium	Carnivora
		<i>Mydaus javanensis</i> Sunda stink badger	Both	Terrestrial	not threatened	medium	Carnivora
	Viverridae	Arctictis binturong Binturong	Both	Semi-arboreal	threatened	large	Carnivora
		Arctogalidia trivirgata Small-toothed palm civet	Both	Arboreal	not threatened	medium	Carnivora
		<i>Cynogale bennettii</i> Otter civet	n/a (both)	n/a (terrestrial)	threatened	medium	Carnivora
		Hemigalus derbyanus Banded civet	Both	Semi-arboreal	not threatened	medium	Carnivora
		Hemigalus hosei* Hose's civet*	n/a (both)	n/a (terrestrial)	threatened	medium	Carnivora
		Paguma larvata Masked palm civet	Both	Terrestrial (semi-arboreal)	not threatened	medium	Carnivora
		Paradoxurus hermaphroditus Common palm civet	Unlogged (both)	Terrestrial (semi-arboreal)	not threatened	medium	Carnivora
		<i>Viverra tangalunga</i> Malay civet	Both	Terrestrial	not threatened	medium	Carnivora
	Prionodontidae	Prionodon linsang Banded linsang	n/a (both)	n/a (semi-arboreal)	not threatened	medium	Carnivora
	Ursidae	Helarctos malayanus Sun bear	Both	Terrestrial (semi-arboreal)	threatened	large	Carnivora
Cetartiodactyla	Suidae	<i>Sus barbatus</i> Bearded pig	Both	Terrestrial	threatened	large	Ungulates
	Tragulidae	<i>Tragulus kanchil</i> Lesser mousedeer	Both	Terrestrial	not threatened	medium	Ungulates
		<i>Tragulus napu</i> Greater mousedeer	Both	Terrestrial	not threatened	medium	Ungulates

	Cervidae	<i>Muntiacus atherodes</i> Bornean yellow muntjac	Both	Terrestrial	not threatened	large	Ungulates
		<i>Muntiacus muntjak</i> Red muntjac	Both	Terrestrial	not threatened	large	Ungulates
		<i>Rusa unicolor</i> Sambar deer	Both	Terrestrial	threatened	large	Ungulates
	Bovidae	<i>Bos javanicus</i> Banteng	Logged (both)	Terrestrial	threatened	large	Ungulates
Dermoptera	Cynocephalidae	<i>Galeopterus variegatus</i> Sunda colugo	Both	Arboreal	not threatened	medium	Gliding mammals
Eulipotyphla	Erinaceidae	Echinosorex gymnura Moonrat	Both	Terrestrial	not threatened	small	Insectivora
Pholidota	Manidae	<i>Manis javanica</i> Sunda pangolin	Both	Terrestrial (semi-arboreal)	threatened	medium	Insectivora
Primates	Cercopithecidae	Presbytis rubicunda* Maroon langur*	Both	Arboreal	threatened	large	Primates
		Presbytis sabana* Sabah grey langur*	Unlogged (both)	Arboreal	threatened	large	Primates
		<i>Macaca fascicularis</i> Long-tailed macaque	Unlogged (both)	Semi-arboreal	threatened	large	Primates
		<i>Macaca nemestrina</i> Pig-tailed macaque	Both	Semi-arboreal	threatened	large	Primates
	Hylobatidae	<i>Hylobates funereus*</i> Bornean gibbon*	Both	Arboreal	threatened	large	Primates
	Lorisidae	<i>Nycticebus menagensis</i> Philippine slow loris	n/a (both)	n/a (arboreal)	threatened	small	Primates
	Pongidae	<i>Pongo pygmaeus*</i> Bornean orangutan*	Logged	Semi-arboreal	threatened	large	Primates
	Tarsiidae	<i>Cephalopacus bancanus</i> Horsfield's tarsier	n/a (both)	n/a (arboreal)	threatened	small	Primates
Proboscidea	Elephantidae	<i>Elephas maximus</i> Asian elephant	Logged (both)	Terrestrial	threatened	large	Ungulates

Rodentia	Sciuridae	Aeromys tephromelas Black flying squirrel	Both	Arboreal	not threatened	medium	Gliding mammals
		Aeromys thomasi* Thomas' flying squirrel*	Both	Arboreal	not threatened	medium	Gliding mammals
		<i>Callosciurus adamsi*</i> Ear-spot squirre1*	Logged (both)	Arboreal (semi-arboreal)	not threatened	small	Non-gliding Rodents
		<i>Callosciurus notatus</i> Plantain squirrel	n/a (both)	n/a (semi-arboreal)	not threatened	small	Non-gliding Rodents
		<i>Callosciurus prevostii</i> Prevost's squirrel	Both	Arboreal	not threatened	small	Non-gliding Rodents
		<i>Callosciurus sp.</i> Large mystery squirrel	Logged (both?)	Arboreal	?	small	Non-gliding Rodents
		(Exilisciurus exilis*) (Bornean pygmy squirrel*)	Unlogged (both)	Arboreal	not threatened	small	Non-gliding Rodents
		<i>Hylopetes spadiceus</i> Red-cheeked flying squirrel	n/a (both)	n/a (arboreal)	not threatened	small	Gliding mammals
		<i>Iomys horsfieldi</i> Horsfield's flying squirrel	Logged (both)	Arboreal	not threatened	small	Gliding mammals
		Lariscus hosei* Four-striped ground squirrel*	n/a (both)	n/a (terrestrial)	not threatened	small	Non-gliding Rodents
		Petaurillus hosei* Hose's pygmy flying squirrel*	n/a (unlogged)	n/a (arboreal)	not threatened	small	Gliding mammals
		<i>Petaurista petaurista</i> Red giant flying squirrel	Unlogged (both)	Arboreal	not threatened	medium	Gliding mammals
		Petinomys genibarbis Whiskered flying squirrel	n/a (both)	n/a (arboreal)	Threatened	small	Gliding mammals
		(Petinomys setosus) (Temminck's flying squirrel)	Unlogged (both)	Arboreal	Threatened	small	Gliding mammals
		Pteromyscus pulverulentus Smoky flying squirrel	Unlogged	Arboreal	Threatened	small	Gliding mammals
		<i>Ratufa affinis</i> Giant squirrel	Both	Arboreal	not threatened	medium	Non-gliding Rodents
		<i>Rheithrosciurus macrotis*</i> Tufted ground squirrel*	Both	Semi-arboreal	Threatened	medium	Non-gliding Rodents

	Sundasciurus brookei* Brooke's squirrel*	Both (unlogged)	Arboreal	not threatened	small	Non-gliding Rodents
	<i>Sundasciurus lowii</i> Low's squirrel	Both	Semi-arboreal	not threatened	small	Non-gliding Rodents
	<i>Sundasciurus hippurus</i> Horse-tailed squirrel	Both	Semi-arboreal	not threatened	small	Non-gliding Rodents
Iuridae	Chiropodomys major* Large pencil-tailed tree mouse*	n/a (both)	n/a (arboreal)	not threatened	small	Non-gliding Rodents
	Haeromys margarettae* Ranee mouse*	n/a (both)	n/a (semi-arboreal)	not threatened	small	Non-gliding Rodents
	Leopoldamys sabanus Long-tailed giant rat	Unlogged (both)	Terrestrial	not threatened	small	Non-gliding Rodents
	Maxomys baeodon* Small spiny rat*	n/a (both)	n/a (terrestrial)	not threatened	small	Non-gliding Rodents
	Maxomys ochraceiventer* Chestnut-bellied spiny rat*	n/a (both)	n/a (terrestrial)	not threatened	small	Non-gliding Rodents
	<i>Maxomys rajah</i> Brown spiny rat	Unlogged	Terrestrial	Threatened	small	Non-gliding Rodents
	<i>Maxomys surifer</i> Red spiny rat	Logged	Terrestrial	not threatened	small	Non-gliding Rodents
	<i>Maxomys whiteheadi</i> Whitehead's rat	Unlogged (both)	Terrestrial	threatened	small	Non-gliding Rodents
	<i>Niviventer cremoriventer</i> Dark-tailed tree rat	n/a (both)	n/a (semi-arboreal)	not threatened	small	Non-gliding Rodents
	<i>Sundamys muelleri</i> Muller's rat	n/a (both)	n/a (semi-arboreal)	not threatened	small	Non-gliding Rodents
lystricidae	Hystrix brachyura Malay porcupine	Both	Terrestrial	not threatened	medium	Non-gliding Rodents
	Hystrix crassispinis* Thick-spined porcupine*	Both	Terrestrial	not threatened	medium	Non-gliding Rodents
	Trichys fasciculata Long-tailed porcupine	Both	Terrestrial	not threatened	medium	Non-gliding Rodents

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Scandentia	Ptilocercidae	<i>Ptilocercus lowii</i> Pentail treeshrew	Logged (both)	Arboreal	not threatened	small	Insectivora
	Tupaiidae	<i>Tupaia dorsalis*</i> Striped treeshrew*	n/a (both)	n/a (terrestrial)	not threatened	small	Insectivora
		<i>Tupaia gracilis*</i> Slender treeshrew*	n/a (both)	n/a (semi-arboreal)	not threatened	small	Insectivora
		<i>Tupaia longipes*</i> Plain treeshrew*	Both	Semi-arboreal (terrestrial)	not threatened	small	Insectivora
		<i>Tupaia tana</i> Large treeshrew	Unlogged (both)	Terrestrial	not threatened	small	Insectivora
		<i>Tupaia minor</i> Lesser treeshrew	Unlogged (both)	Terrestrial (semi-arboreal)	not threatened	small	Insectivora

Table S3. Community structure of mammals in each strata and forest type, according to capture events per 100 camera trap nights (CTN). Canopy data are from single canopy camera-traps, except records of Bornean pygmy squirrel, Temminck's flying squirrel and horse-tailed squirrel in unlogged forest, and banded civet in logged forest, which were only detected by our additional canopy camera-traps at those sites (marked by parentheses). Note that the orangutan is known to be absent from Maliau Basin, our unlogged site. Asterisks denote species endemic to Borneo. Shading denotes no captures in that strata and forest type. Indicator species analyses utilised data from the first 91 CTN at each camera location to visualise similarities or dissimilarities between mammal community structure across forest type and, separately, across strata. No indicator species were identified that could be aligned with unlogged or logged forest since the community-level differences between these habitats were weak. Species reported are therefore indicators of terrestrial or canopy strata (denoted 'T' or 'C') according to vector fitting (envfit) or Pearson's coefficient of association based on the ordination and species detection data. Significant values are highlighted in bold.

	Capture Events per 100 CTN				Indicator species		Indicator species	
	Canopy Cameras		Terrestrial Cameras		(Envfit test)		(Pearson association)	
Species	Unlogged	Logged	Unlogged	Logged	R ²	P value	Φ	P value
Sunda clouded leopard, Neofelis diardi borneensis			0.48	0.04	0.03	0.348	0.21	0.082
Marbled cat, Pardofellis marmorata			0.08	0.08	0.03	0.237	0.17	0.193
Leopard cat, Prionailururs bengalensis			0.28	0.41	0.07	0.045	0.33	0.002 (T)
Short-tailed mongoose, Herpestes brachyurus			0.63	0.34	0.05	0.116	0.26	0.002 (T)
Collared mongoose, Herpestes semitorquatus			0.13					
Yellow-throated marten, Martes flavigula	0.18	0.19	0.25	0.30	0.03	0.325	0.02	0.924
Sunda stink badger, Mydaus javanensis			0.05	0.04				
Binturong, Arctictis binturong	0.25	0.16	0.08	0.08	0.01	0.833	0.05	0.713
Small-toothed palm civet, Arctogalidia trivirgata	0.31	1.73			0.19	0.001 (C)	0.42	<0.001 (C)
Banded civet, Hemigalus derbyanus		(0.01)	2.88	1.39	0.15	0.004 (T)	0.47	<0.001 (T)
Masked palm civet, Paguma larvata			0.23	0.11	0.07	0.063	0.25	0.031 (T)
Common palm civet, Paradoxurus hermaphroditus			0.08					
Malay civet, Viverra tangalunga			3.58	5.14	0.27	0.001 (T)	0.60	<0.001 (T)
Sun bear, Helarctos malayanus			1.20	2.14	0.17	0.003 (T)	0.39	<0.001 (T)
Bearded pig, Sus barbatus			9.61	28.84	0.12	0.010 (T)	0.43	<0.001 (T)
Lesser mousedeer, Tragulus kanchil			2.73	8.18	0.08	0.058	0.28	<0.001 (T)
Greater mousedeer, Tragulus napu			14.62	11.97	0.18	0.001 (T)	0.53	<0.001 (T)
Bornean yellow muntjac, Muntiacus atherodes			14.59	21.91	0.19	0.002 (T)	0.51	<0.001 (T)

Red muntjac, Muntiacus muntjak			13.29	9.00	0.20	0.001 (T)	0.53	<0.001 (T)
Sambar deer, Rusa unicolor			1.18	3.98	0.08	0.047	0.36	<0.001 (T)
Banteng, Bos javanicus				1.16	0.02	0.306	0.13	0.199
Sunda colugo, Galeopterus variegatus	0.05	0.03			0.03	0.213	0.11	1.000
Moonrat, Echinosorex gymnurus			0.58	0.11	0.06	0.105	0.28	0.007 (T)
Sunda pangolin, Manis javanica			0.23	0.04	0.03	0.312	0.17	0.194
Bornean gibbon*, Hylobates funereus*	0.71	1.03			0.05	0.128	0.25	0.011 (C)
Orangutan*, Pongo pygmaeus*		0.93		0.83	0.01	0.587	0.03	0.811
Maroon langur*, Presbytis rubicunda*	3.41	0.61			0.04	0.186	0.14	0.043 (C)
Sabah grey langur*, Presbytis sabana*	1.57				0.09	0.029 (C)	0.22	0.060
Long-tailed macaque, Macaca fascicularis	1.16		0.15		0.12	0.014 (C)	0.12	0.407
Pig-tailed macaque, Macaca nemestrina	0.63	1.93	20.33	12.00	0.14	0.004 (T)	0.46	<0.001 (T)
Asian elephant, Elephas maximus				0.08				
Black flying squirrel, Aeromys tephromelas	0.15	0.19			0.01	0.726	0.15	0.255
Thomas' flying squirrel*, Aeromys thomasi*	0.81	0.03			0.20	0.001 (C)	0.18	0.104
Ear-spot squirrel*, Callosciurus adamsi*		0.42			0.03	0.295	0.13	0.250
Prevost's squirrel, Callosciurus prevostii	1.39	4.91			0.08	0.035 (C)	0.32	<0.001 (C)
Large mystery squirrel, Callosciurus sp.?		0.03						
Bornean pygmy squirrel*, Exilisciurus exilis*	(0.01)							
Horsfield's flying squirrel, Iomys horsfieldi		0.03						
Red giant flying squirrel, Petaurista petaurista	0.53				0.08	0.033 (C)	0.21	0.126
Temminck's flying squirrel, Petinomys setosus	(0.01)							
Smoky flying squirrel, Pteromyscus pulverulentus	0.02							
Giant squirrel, Ratufa affinis	0.38	0.90			0.03	0.238	0.20	0.001 (C)
Tufted ground squirrel*, Rheithrosciurus macrotis*	0.02		1.08	0.34	0.11	0.017 (T)	0.35	<0.001 (T)
Brooke's squirrel*, Sundasciurus brookei*	0.08	0.13			0.04	0.161	0.15	0.498
Low's squirrel, Sundasciurus lowii		0.03	0.03					
Horse-tailed squirrel, Sundasciurus hippurus	(0.04)	0.13	0.05	0.19	0.01	0.990	0.02	1.000
Long-tailed giant rat, Leopoldamys sabanus			0.53		0.03	0.316	0.20	0.080
Brown spiny rat, Maxomys rajah			0.88		0.03	0.266	0.21	0.034 (T)
Red spiny rat, Maxomys surifer				0.15	0.02	0.555	0.17	0.1895
Whitehead's rat, Maxomys whiteheadi			0.08					

Malay porcupine, Hystrix brachyura			2.33	2.89	0.08	0.049 (T)	0.31	<0.001 (T)
Thick-spined porcupine*, Thecurus crassispinis*			3.70	0.64	0.03	0.306	0.21	<0.001 (T)
Long-tailed porcupine, Trichys fasciculata			1.05	0.38	0.06	0.109	0.25	0.002 (T)
Pentail treeshrew, Ptilocercus lowii		0.06			0.04	0.183	0.15	0.504
Plain treeshrew*, Tupaia longipes*	0.02		0.08					
Large treeshrew, Tupaia tana			0.08					
Lesser treeshrew, Tupaia minor			0.05					

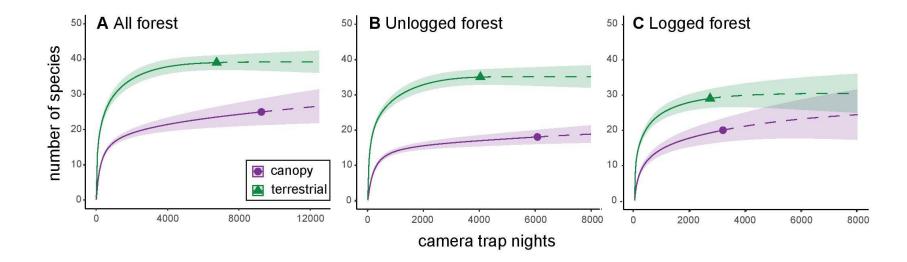


Figure S1 (A-C). Rarefied species accumulation curves for arboreal and terrestrial mammal communities in (A) both forest types combined, (B) unlogged forest only, and (C) logged forest only. Curves were extrapolated (dashed line) to approximately double the minimum observed sample size in each comparison. Confidence intervals were set at 95% and are represented by shaded areas around the curves.

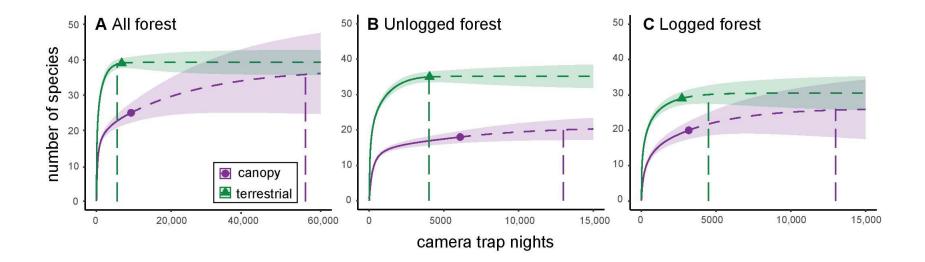


Figure S2 (A-C). Rarefied species accumulation curves for arboreal and terrestrial mammal communities in (A) both forest types combined, (B) unlogged forest only, and (C) logged forest only. Curves were extrapolated (dashed line) to the point of asymptote for arboreal communities. Approximate sampling effort required to reach asymptote is marked by vertical dashed lines. Confidence intervals were set at 84% and are represented by shaded areas around the curves

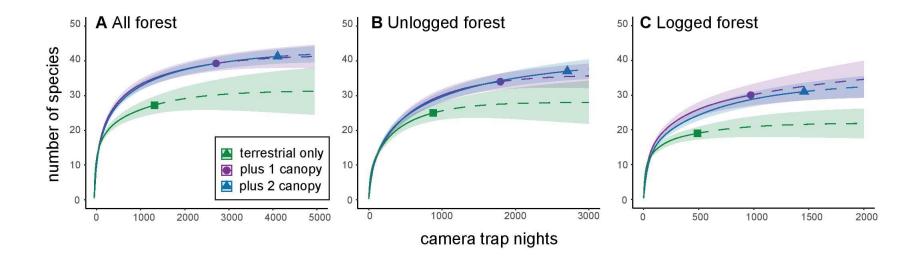


Figure S3 (A-C). Control species accumulation curves for (A) both forest types combined, (B) unlogged forest and (C) logged forest, comparing overall species numbers obtained from a subset of 1,409 CTN each for: terrestrial-only camera-traps, terrestrial camera-traps plus single canopy camera-traps, and terrestrial camera-traps, single canopy camera-traps plus the 19 experimental second canopy camera-traps. Confidence intervals were set at 84% and are represented by shaded areas around the curves.

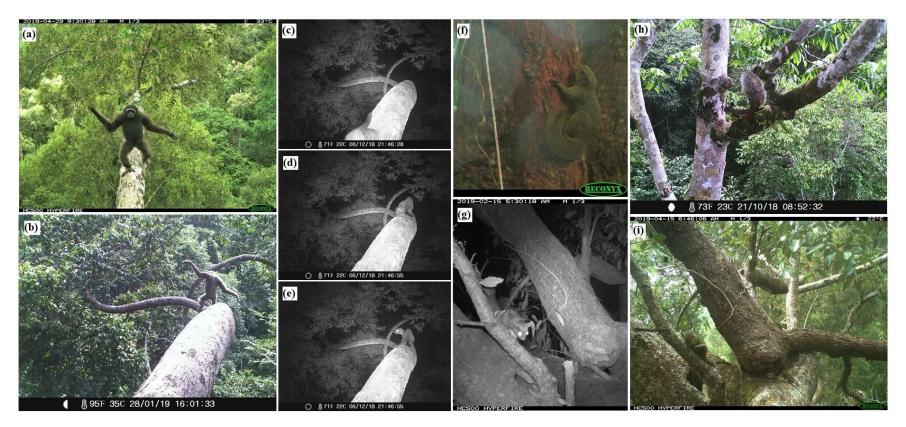


Figure S4. Examples of new insights from canopy camera-traps. (a), (b) branch-walking locomotion in Bornean gibbon *Hylobates funereus*; (c)-(e) likely mating event of the strictly arboreal small-toothed palm civet *Arctogalidia trivirgata* at 33.6 m height; (f) arboreal squirrel not fitting any known description for Bornean species (image cropped for clarity); (g) putative record of smoky flying squirrel *Pteromyscus pulverulentus*, for which no confirmed photographic image currently exists (Thorington et al. 2012, IUCN Red List accessed February 2021); (h) likely scent-marking behaviour in tufted ground squirrel *Rheithrosciurus macrotis*, a rarely-seen Borneo endemic thought to be largely terrestrial; (i) use of the canopy strata (camera-trap at 22 m height) by plain treeshrew *Tupaia longipes*, a species previously considered strictly terrestrial (Payne & Francis 2007).

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