

**Table 2.1** Orangutan study sites

	Gunung Leuser, Suaq Balimbing	Gunung Leuser, Soraya	Gunung Leuser, Ketambe	Gunung Palung, Cabang Paniti	Tanjung Puting, Camp Leakey	Kutai, Mentoko and Kutai Taman Nasional	Lokan	Lower Kinabatangan
abbreviation	<b>SQB</b>	<b>SOR</b>	<b>KTB</b>	<b>GPL</b>	<b>TJP</b>	<b>KTM</b>	<b>LKN</b>	<b>LKB</b>
observation intensity	M	L	H	H	H	M	L	M
country, island	Indonesia, Sumatra	Indonesia, Sumatra	Indonesia, Sumatra	Indonesia, Borneo	Indonesia, Borneo	Indonesia, Borneo	Malaysia, Borneo	Malaysia, Borneo
location	3°04'N, 97°26'E	2°55'N, 97°55'E	3°40' N, 97°40'E	1°13'S, 110°7'E	2°46'S, 111°7'E	0°35'N, 117°30'E	5°29'N, 117°41'E	5°30'N, 118°00'E
study area size (ha)	2000	500	450	2000	5000	5000	1600	600
altitude (meters above sea level)	0-50	75-150	300-800	0-350	0-30	20-350	20-150	0-50
forest type	freshwater swamp, peat swamp and some low hill dipterocarp forest	selectively logged lowland hill and riverine forest	primary hill and riverine forest	mixed swamp, alluvial and lowland hill dipterocarp forest	mixed lowland dipterocarp, peat swamp and riverine swamp	mixed lowland dipterocarp	primary lowland dipterocarp and riverine swamp forest	overexploited forest: riverine, swamp, semi-inundated, limestone forests
population density (individuals/km <sup>2</sup> )	7	0.43	5	1.85	2	1.0-1.5	1.32	4.5
% time in association	45.5	6.4	46.1	1.6	10	1.6-10	unknown	14.4

**Table 2.2** Very Likely Cultural Behaviors (C=Customary, H=Habitual, P=Present at unknown frequency, R=Rare, E=absent for clear Ecological reasons, A=Absent without clear ecological reasons; darker fills indicate higher frequency)

<b>Behavior</b>	<b>Category</b>	<b>SQB</b>	<b>SOR</b>	<b>KTB</b>	<b>GPL</b>	<b>TJP</b>	<b>KTM</b>	<b>LKN</b>	<b>LKB</b>
Tree-hole tool-use	subistence skill	C	?	A	A	A	A	A	A
Seed-extraction tool-use	subistence skill	C	E	E	A	A	E	E	A
Branch scoop	subistence skill	H	A	A	A	A	A	A	A
Leaf padding	weal skill	E	?	H	A	R	A	A	A
Branch swatter	weal skill	H	?	H	R	R	H	A	H
Leaf napkin	weal skill	A	A	A	A	A	C	A	A
Scratch stick	weal skill	A	P	A	A	R	H	A	A
Autoerotic tool	weal skill	A	?	C	A	A	P	A	A
Bunk nests	weal skill	A	A	A	A	P	A	H	H
Sun cover	weal skill	A	A?	H	A	?	C	R	C
Shelter under nest	weal skill	A	A	R	A	R	C	R	P
Symmetric scratch	weal skill or unknown	C	A	R	A	A	A	A	A
Snag riding	display variant	A	A	A	A	C	A	A	A
Kiss-squeak with hands	display variant	H	C	C	R	R	H	?	A
Kiss-squeak with leaves	display variant	A	A	A	C	A	H	A	A
Leaf wipe	reference variant	A	A	A	A	C	A	A	A
Nest raspberry	reference variant or	C	C?	A	A	A	A	A	H
Twig biting	unknown	C	A	A	A	A	A	A	A

**Table 2.3** Likely Cultural Behaviors (C=Customary, H=Habitual, P=Present at unknown frequency, R=Rare, E=absent for clear Ecological reasons, A=Absent without clear ecological reasons; darker fills indicate higher frequency)

Behavior	Category	SQB	SOR	KTB	GPL	TJP	KTM	LKN	LKB
<b>Bouquet feeding</b>	label or subsistence skill	C	?	C	C	C	A or E	?	R
<b>Dead twig sucking</b>	label or subsistence skill	C	?	C	A?	C	A?	?	A or E
<b>Nest destruction</b>	label or subsistence skill	H	?	H	H	C	P	?	A or E
<b>Slow loris eating</b>	label or subsistence skill	H	?	H	A or E	A or E	A or E	?	A or E
<b>Multi-tree nests</b>	weal skill	C	P	R	C	C	A or E	A	H

**Table 2.4** Rare Behaviors (**P**=Present at unknown frequency, **R**=Rare, **E**=absent for clear Ecological reasons, **A**=Absent without clear ecological reasons, **?**=presence or absence uncertain)

<b>Behavior</b>	<b>Category</b>	<b>SQB</b>	<b>SOR</b>	<b>KTB</b>	<b>GPL</b>	<b>TJP</b>	<b>KTM</b>	<b>LKN</b>	<b>LKB</b>
Leaf dipper	subsistence skill	A	?	A	R	A	A	A	A
Sponging	subsistence skill	A	?	R	A	A	A	?	A
Stick as chisel	subsistence skill	A	?	R	A	A	A	?	A
Branch hide	weal skill	A	?	R	A	R	P	A	R
Bridge nest	weal skill	A	?	A	A	R	A	A	A
Leaf autogroom	weal skill	A	?	A	R	A	A	A	A
Severed vine swing	weal skill	R	?	A	A	R	A	A	A
Genito-genital rub	weal skill or reference variant	R	A	A	R	R	A	A	A
Stealth nest approach	weal skill or unknown	A	?	A	R	A	A	R	A
Branch-dragging display	reference variant	A	?	A	A	A	?	A	R
Artistic pillows	unknown	?	?	?	A	P	?	?	A
Leaf "doll"	unknown	A	?	A	R	R	A	A	R