

Table 3.1 Very likely cultural behaviors at Suaq Balimbing and Ketambe (C=Customary, H=Habitual, R=Rare, P=Present at unknown frequency, E=absent for clear Ecological reasons, A=Absent without clear ecological reasons; darker fills indicate higher frequency)

Behavior	Category	SQB	KTB	Minimum Learning Distance (meters)
Symmetric scratch	weal skill or convention	C	R	50
Sun cover	weal skill	A	H	50
Twig biting	convention	C	A	10
Nest raspberry	reference variant or convention	C	A	10
Branch scoop	subsistence skill	H	A	10
Autoerotic tool	weal skill	A	C	10
Leaf padding	weal skill	E	H	10
Tree-hole tool-use	subsistence skill	C	A	2
Seed-extraction tool-use	subsistence skill	C	E	2

Table 3.2 Research Sites

site (abbreviation)	Suaq Balimbing (SQB)	Ketambe (KTB)
year orangutan research began	1992 ⁴	1971 ¹
location	3°04'N, 97°26'E ⁴	3°40' N, 97°40'E ¹
study area size	2000 ha ⁴	450 ha ¹
altitude	0-50 m above sea level ⁴	300-800 m above sea level ¹
forest type	freshwater swamp, peat swamp and some low hill dipterocarp forest	primary hill and riverine forest, with some secondary forest ¹
annual rainfall	3400mm ²	3000mm ¹
population density	7 individuals/km ² ²	5.5 individuals/km ² ²
# habituated orangutans	55 ²	40 ³
references	<ol style="list-style-type: none"> 1. Rijksen 1978 2. van Schaik et al 1995 3. te Boekhorst et al 1990 4. C. van Schaik, unpub. 	

Table 3.3 Information on Focal Individuals

name	site	Observations				Most Recent Offspring		
		first day	last day	hours	days	born	age (yrs) [†]	sex
Ans	KTB	5/30/99	4/24/00	227	22	3/96	4	f
Binjei	KTB	7/4/99	4/3/00	322	32	4/98	1	m
Elisa	KTB	6/9/99	4/23/00	137	14	4/98	1	m
Pluis	KTB	9/21/99	10/15/99	63	7	6/93	6	f
Sina	KTB	5/17/99	5/25/00	166	16	1/93	7	m
Yet	KTB	5/10/99	4/6/00	255	24	8/92	7	m
Abby	SQB N	4/17/99	8/16/99	260 (114)*	26 (12)*	6/90	9	f
Beki	SQB N	8/27/97	6/14/99	162 (53)*	20 (6)*	10/97	1	m
Pelet	SQB N	2/2/98	7/30/99	189 (20)*	27 (4)*	1/92	7	m
Ani	SQB S/C	5/19/99	8/15/99	191	19	6/96	3	f
Hanes	SQB S/C	3/21/98	8/7/99	155 (46)*	18 (6)*	1/99	0	?
Tevi	SQB S/C	6/22/99	7/13/99	37	6	1/96	4	m

* Numbers in parentheses are used for any analysis regarding parties at ≤ 2 m distances and for percent time in parties; this information was not available in the database provided by Carel van Schaik. All other information in this table includes the entries from that database.

† Age of current offspring is given based on the midpoint of observations recorded for that individual. In the case of the Suaq Balimbing females, the age of the offspring given is at the midpoint of observations that include the extra data added from Carel van Schaik's database.

Table 3.4 Mean Party Size, Ketambe vs. Suaq Balimbing

	Means		Mann-Whitney (Wilcoxon)	
	KTB	SQB	Test Statistic	P-value
50m	1.445	1.976	21	0.6889
10m	1.065	1.170	25	0.2980
2m	1.005	1.058	33	0.0202

Table 3.5 Mean Party Size, Ketambe, Suaq Balimbing North and Suaq Balimbing South/Central

	Means			Kruskal-Wallis	
	KTB	SQB N	SQB S/C	Test Statistic	P-value
50m	1.445	1.127	2.824	7.6154	0.0222
10m	1.065	1.031	1.310	5.4103	0.0669
2m	1.005	1.039	1.076	6.5897	0.0371

Table 3.6 Mean Party Size (without next youngest offspring), Ketambe vs. Suaq Balimbing

	Means		Mann-Whitney (Wilcoxon)	
	KTB	SQB	Test Statistic	P-value
50m	1.300	1.792	24	0.3785
10m	1.039	1.130	29	0.0927
2m	1.005	1.057	34	0.0131

Table 3.7 Mean Party Size (without next youngest offspring), Ketambe, Suaq Balimbing North and Suaq Balimbing South/Central

	Means			Kruskal-Wallis	
	KTB	SQB N	SQB S/C	Test Statistic	P-value
50m	1.300	1.127	2.456	6.5769	0.0373
10m	1.039	1.031	1.229	5.6154	0.0603
2m	1.005	1.039	1.074	7.1923	0.0274

Table 3.8 Percent time in parties, Ketambe and Suaq Balimbing

	Means		Mann-Whitney (Wilcoxon)	
	KTB	SQB	Test Statistic	P-value
≤50m	0.32987	0.49503	25	0.297952
≤10m	0.06369	0.15764	25	0.297952
≤2m	0.00503	0.05428	33	0.020241

Table 3.9 Percent time in parties, Ketambe, Suaq Balimbing North and Suaq Balimbing South/Central

	Means			Kruskal-Wallis	
	KTB	SQB N	SQB S/C	Test Statistic	P-value
≤50m	0.32987	0.22761	0.76245	6.38462	0.04108
≤10m	0.06369	0.08254	0.23274	2.53846	0.28105
≤2m	0.00503	0.0392	0.06936	6.58974	0.03707

Table 3.10 Cumulative Number of Partners (by day)

		Mean				Mann-Whitney (Wilcoxon)		Kruskal-Wallis	
distance	day	KTB	SQB	SQB N	SQB S/C	Test statistic	P-value	Test statistic	P-value
≤50m	10	4.4	6.6	4.33	10	17	0.398	3.933	0.140
	15	5.25	9	6	13.5	14.5	0.317	4.403	0.111
≤10m	10	2	4	1.67	7.5	15	0.664	3.824	0.148
	15	2.75	5	2	9.5	11	0.893	5.880	0.02<P<0.05
≤2m	6	0.83	2.83	1.67	4	31	0.039	6.595	0.037

Table 3.11 Comparisons of differences between mean cumulative number of partners by observation day for KTB and SQB (signed rank test)

	KTB-SQB	
	Test Statistic	P-value
≤50m	1.2562	0.2091
≤10m	1.3821	0.1669
≤2m	1.8869	0.0592

Table 3.12 Comparisons of differences between mean cumulative number of partners by observation day for KTB, SQB N and SQB S/C (signed rank test)

	KTB-SQB N		SQB N - SQB S/C		KTB - SQB S/C	
	Test Statistic	P-value	Test Statistic	P-value	Test Statistic	P-value
≤50m	2.3553	0.0185	3.2652	0.0011	2.8906	0.0038
≤10m	3.2668	0.0011	3.2032	0.0014	2.8277	0.0047
≤2m	0.8433	0.3991	2.0966	0.0360	2.0966	0.0360

Table 3.13 Indices of Partner Diversity, Ketambe and Suaq Balimbing

	Means		Mann-Whitney (Wilcoxon) Results	
	KTB	SQB	Test Statistic	P-Value
≥50m H'	0.544	0.728	27	0.173
≥50m J'	0.433	0.457	20	0.810
≥10m H'	0.241	0.538	27	0.036
≥10m J'	0.189	0.354	26	0.055
≥2m H'	0.178	0.304	19	0.513
≥2m J'	0.155	0.230	19	0.513

Table 3.14 Indices of Partner Diversity, Ketambe, Suaq Balimbing North and Suaq Balimbing South/Central

	Means			Kruskal-Wallis Results	
	KTB	SQB N	SQB S/C	Test Statistic	P-Value
≥50m H'	0.544	0.560	0.896	6.231	0.044
≥50m J'	0.433	0.352	0.563	5.756	0.056
≥10m H'	0.241	0.350	0.726	6.982	0.030
≥10m J'	0.189	0.231	0.478	6.594	0.037
≥2m H'	0.178	0.061	0.547	6.908	0.032
≥2m J'	0.155	0.046	0.414	6.908	0.032