

**Table 4.1** Nest-related behaviors that vary between 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)

<b>Behavior</b>	<b>Category</b>	<b>SQB</b>	<b>KTB</b>
<b>Sun cover</b>	weal skill	A	H
<b>Shelter under nest</b>	weal skill	A	R
<b>Nest raspberry</b>	reference variant or unknown	C	A
<b>Twig biting</b>	unknown	C	A
<b>Multi-tree nests</b>	weal skill	C	P

**Table 4.2** Number of identified focal individuals by age/sex class at each site included in this study, with age/sex class abbreviations defined.

<b>Class</b>	<b>Definition</b>	<b># at Ketambe</b>	<b># at Suaq Balimbing</b>
AF	Adult (parous) Female	6	13
AM	Adult (flanged) Male	2	10
SAM	Sub-Adult (unflanged, sexually mature) Male	2	4
Adol. F	Adolescent Female (recently independent, not sexually mature)	1	1
Adol. M	Adolescent Male (recently independent, not sexually mature, no larger than adult females)	0	0

**Table 4.3** Presence or absence of nest raspberry during nest building observations at Suaq Balimbing (P: present; A: absent; ?: unknown; **bold** names indicate individuals used for nest raspberry comparisons).

Focal	Age/Sex	Day Nests			Day Nest Totals	Night Nests			Night Nest Totals	Grand Total
		P	A	?		P	A	?		
Abby	AF		12		12	9		1	10	22
Agus	AM		1		1					1
<i>Andai</i>	Adol. F	1	6		7	1	1		2	9
<i>Ani</i>	AF	3	18	1	22	15	1	2	18	40
<b>Arno</b>	AM		5		5	1	3		4	9
<b>Beki</b>	AF	3	6		9	2	4		6	15
Bestel	SAM					1			1	1
Brus	AM		1		1	1			1	2
Budy	AM		3		3					3
Caca	AM	1			1	1			1	2
David	AM					1			1	1
Diana	AF					2			2	2
<i>Hanes</i>	AF	1	7		8	2	2		4	12
<i>Herdi</i>	SAM	1	7		8	1			1	9
Karen	AF					1			1	1
Mira	AF		2		2	1			1	3
<i>Musa</i>	SAM	1	1		2	1			1	3
<i>Ngon</i>	AM		3		3	1	1		2	5
Novi	AF		2		2					2
<b>Olly</b>	AM	1	11		12	2	2		4	16
Payung	SAM					1			1	1
Pelet	AF					2			2	2
Sela	AF		1		1					1
Tevi	AF		6		6	2			2	8
<b>William</b>	AM	1	12		13	5	1		6	19
Yinta	AF		2		2			1	1	3
<b>Zuar</b>	AM		4		4	1	1		2	6
<b>Grand Total</b>		<b>13</b>	<b>110</b>	<b>1</b>	<b>124</b>	<b>54</b>	<b>16</b>	<b>4</b>	<b>74</b>	<b>198</b>

**Table 4.4** Mean day and night nest building duration for each age/sex class at Suaq Balimbing, with comparisons of day and night nest building duration within each class.

	Day Nests		Night Nests		Wilcoxon Signed Rank	
	Mean building duration	N	Mean building duration	N	Test Statistic	P-value
AF	1.8	12	8.2	13	2.85	0.00443
AM	2.4	11	7.5	10	2.63	0.00867
Adol F	3	1	7	1	--	--
SAM	2.7	3	9.2	5	1.34	0.181

**Table 4.5** Day and Night Nests With or Without Nest Raspberries

Focal	Ani	Becky	Hanes
# day nests	21	9	8
# with nest raspberry	3	3	1
Average duration with raspberry (minutes)	2.7	3.3	7
Range of duration with raspberry (minutes)	2-4	2-5	7
Average duration without raspberry (minutes)	2.7	2.2	2.4
Range of duration without raspberry (minutes)	1-7	2-3	1-4
Test Statistic	25.5	4	n/a
P-Value	0.915	0.165	n/a
# night nests	16	6	4
# without nest raspberry	1	4	2
Average duration with raspberry (minutes)	9.1	8	9.5
Range of duration with raspberry (minutes)	4-13	5-11	8-11
Average duration without raspberry (minutes)	2	7.3	7.5
Range of duration without raspberry (minutes)	2	5-11	6-9
Test Statistic	n/a	4.0	1.0
P-Value	n/a	0.812	0.699

**Table 4.6** Individual comparisons for nest position and presence or absence of the nest raspberry (italicized values are with Yates' correction).

	Day Nests		Night Nests	
	$X^2$	P-value	$X^2$	P-value
Ani	1.13	0.770	--	--
Beki	1.50	0.682	3.00	0.223
Hanes	8.00	<b>0.046</b>	2.00	0.379
Arno	1.33	0.513	--	--
Olly	5.45	0.141	2.00	0.368
William	<i>0.00</i>	<i>1.000</i>	<i>0.00</i>	<i>1.000</i>
Andai	0.88	0.646	0.00	1.000
Herd	3.43	0.180	--	--
Musa	<i>0.00</i>	<i>1.000</i>	--	--

**Table 4.7** Comparisons for pooled Adult Females (AF) and Adult Males (AM) of nest position and presence or absence of the nest raspberry.

	Day Nests		Night Nests	
	$X^2$	P-value	$X^2$	P-value
AF	5.74	0.125	1.60	0.449
AM	5.01	0.171	1.28	0.735

**Table 4.8** Paired-sample signed rank tests for distance between nest and top of tree for nests with and without nest raspberries.

	Day Nests		Night Nests	
	Test statistic	P-value	Test statistic	P-value
AF	0.00	0.999	0.80	0.423
AM	0.89	0.371	1.08	0.279
SAM	0.89	0.371	--	--

**Table 4.9** Results of  $X^2$  analysis of nearest neighbor distance effects on whether a nest raspberry was given for either day nests or night nests (**bold** are significant values, italicized are with Yates' correction)

	Day Nests		Night Nests	
	$X^2$	P-value	$X^2$	P-value
Ani	6.30	<b>0.043</b>	1.07	0.59
Beki	<i>0.08</i>	<i>0.777</i>	<i>0.00</i>	<i>1.000</i>
Hanes	8.00	<b>0.018</b>	2.00	0.368
Arno	--	--	<i>0.00</i>	<i>1.000</i>
Oly	2.18	0.336	4.00	0.135
William	2.44	0.296	<i>0.00</i>	<i>1.000</i>
Andai	2.92	0.405	--	--
Herd	1.14	0.565	--	--
Musa	<i>0.00</i>	<i>1.000</i>	--	--

**Table 4.10** Results of  $X^2$  analysis (*with Yates' correction*) and Fisher's Exact Test (FE2P = P-value for two-tailed test) of nearest neighbor's line-of-sight relationship with whether a nest raspberry was given when day nests or night nests were built.

	Day			Night		
	$X^2$	P-value	FE2P	$X^2$	P-value	FE2P
Ani	0.33	0.568	0.48	0.00	1.00	1.00
Hanes	1.47	0.225	0.13	0.19	0.665	0.33
Ngon	--	--	--	0.00	1.00	1.00
Andai	0.00	1.000	1.0	--	--	--
Herdi	0.00	1.000	1.0	--	--	--

**Table 4.11** Results of  $X^2$  analysis (*with Yates' correction*) of focal female's infant distance effects on whether a nest raspberry was given.

	$X^2$	P-Value
Ani Day Nests	0.7	0.402
Beki Day Nests	0.0	1.00
Beki Night Nests	0.0	1.00

**Table 4.12** Comparisons of percent of multi-tree nests (AM=Adult Male, AF=Adult Female), Mann-Whitney/Wilcoxon.

	W (test statistic)	P-value
AM v. AF Day Nests	14.0	0.383
AM v. AF Night Nests	11.0	0.096
Day v. Night Nests AF	8.0	0.687
Day v. Night Nests AM	10.0	0.212

**Table 4.13** Dispersion tendency for females (percent of night nests without independent conspecific <50m distant - percent time without independent conspecific <50m distant) at Ketambe and Suaq Balimbing (Signed Rank Test).

	KTB	SQB
Mean	0.16	0.07
Test statistic	1.47	1.28
P-value	0.142	0.201