DAY 26 MONTH NOV YEAR 2009 OBS-PC KJ TMF/40 SM FM TW HOW FOUND N

	ST	TU	BB	YB	AJ	MS	LK	KK	PG	ES	PB	TJ	BL	BU	BO	MU	MX	MN	OU	OT	OG	OM	TG	TT	TS	UM	UN	AL	AT	AZ	LR	LO	WA	WE	WL	WC	QT	QV	RD	ML	NP	EU	OF	GRID	MNK	SP	PT
Estrus																																																
5:45																																																
6:00																																																
6:15				X	X														X	X	X																					X	L23		—	—
6:30				X	X														X	X	X																					X			—	—
6:45				X	X														X	X	X	X																					X			—	—
7:00				X	X														X	X	X	X																					X			FBR	RF
7:15					X														X	X	X	X																					X			↓	↓
7:30					X														X	X	X	X																					X				
7:45					X																																							L23		FBR	RF
8:00				X	X																																						L/2U		THV	THV
8:15				X	X																																						L/2U		THV	THV
8:30				X	X																																						L/2U		THV	THV
8:45				X	X																																						M/2U		—	—
9:00				X	X																																								FBR	RF
9:15				X	X																																								↓	↓
9:30				X	X																																									
9:45				X	X																																									
10:00				X	X																																						M/2U		FBR	RF
10:15				X	X																																						M/2S	RDC	FCX	YL
10:30				X	X																																							"	FCX	YL
10:45				X	X																																							"	—	—
11:00				X	X																																							"	—	—
11:15				X	X																																							"	FCX	YL
11:30				X	X																																							"	FCX	YL
11:45				X	X																																							"	—	—
12:00				X	X																																							"	—	—
12:15				X	X																																							"	—	—
12:30				X	X																																							"	—	—
12:45				X	X																																							"	—	—
	ST	TU	BB	YB	AJ	MS	LK	KK	PG	ES	PB	TJ	BL	BU	BO	MU	MX	MN	OU	OT	OG	OM	TG	TT	TS	UM	UN	AL	AT	AZ	LR	LO	WA	WE	WL	WC	QT	QV	RD	ML	NP	EU	OF				
13:00				X	X																																							RDC	—	—
13:15				X	X																																							"	—	—
13:30				X	X																																							"	—	—
13:45				X	X																																						M/2S	"	—	—
14:00				X	X																																						N/2S		MDR	RF
14:15				X	X																																								MDR	RF
14:30				X	X																																								MDR	RF
14:45				X	X																																								—	—
15:00				X	X																																							N/2S		—	—
15:15				X	X																																							N/2U		TTO	YL
15:30				X	X																																									THV	THV
15:45				X	X																																										
16:00				X	X																																										
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	ST	TU	BB	YB	AJ	MS	LK	KK	PG	ES	PB	TJ	BL	BU	BO	MU	MX	MN	OU	OT	OG	OM	TG	TT	TS	UM	UN	AL	AT	AZ	LR	LO	WA	WE	WL	WC	QT	QV	RD	ML	NP	EU	OF	GRID	MNK	SP	PT
Health																																															

COMMENTS

FOUND: C=calls, FT=checking fruit trees, FFT: waiting at fruit tree, N=nest PARTY COMPOSITION: X: present at that time; O = thought to be around

OTHERS: Write IDs in blank columns: HH, PE, UM-UH-UN, GD-GS-GG, MU-MX, AFF, AMM, JFF, JMM, IMM, IFF

PT: RF = ripe fruit, UF = unripe fruit, SD = seed, YL = young leaf, ML = mature leaf, FL = flower, WD = wood, RT = root, SL = soil, MT = meat

MNK: RDC= Red colobus, BWC= Black and white colobus, RDT= Red-tail monkey, BLU= Blue Monkey, MGB= Mangabey, BAB= Baboon

HEALTH: 1 = Healthy, 2 = Cold/cough, 3 = Diarrhoea, 4 = Wound (describe). ESTRUS: 1 = None, 2 = Partial, 3 = Full

GPS # OU(1) OT(1)

KPC Behavior

Day 26 Month NOV Year 2009 KPC KJ Others _____ Found N

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
610	OBS arriving at the nests and found									
	chimps in their nests.									
615	AJ YB	OU OT	OG	OM OL	I/FOO				∅	
630	AJ YB	OU OT	OG	OM OL	"				∅	
645	AJ YB	OU OT	OG	OM OL	"				∅	
651	OM coming out of the night nest.									
653	OU (OL) coming down from the night									
	nest.									
654	OT coming out of the night nest.									
657	chimps climbed into FBR at T/FOO									
	and started feeding on RF.									
700	AJ YB	OU OT	OG	OM OL	I/FOO		FBR	RF	∅	
708	AJ approached OU who made pant									PTG
	grunts before him; AJ ignored.									
710	YB went missing and his out of the party.									

Aggression/Received Aggression (Use additional sheets and describe on back if necessary)

Time	ID	VD	NvD	Chase	Attack			Victim	Response of Victim						Context	Height
		Duration			1	2	3	ID	No	Av	Submission	Tn	Rt	RA		T or G

Copulation

Time	Duratio	Fem	Male	Interfere?	Groom?	Scream?	Dart	Who approached?	Notes

At 15-MINUTE INTERVALS: Party composition, Location, Food, MNK Estrous: 1=None, 2=Partial, 3=Full

AP: Adult play; **CP**: Copulation; **CY**: Carry; **DR**: Drink; **ELE**: Elephants; **FBK**: Food Bark; **HCG**: Hand-clasp groom; **HNY**: Honey
IGI: Intergroup interaction; **LF**: Leaf use; **MAT**: Monkeys attack; **PIG**: Pigs; **Pred**: Predation; **PTG**: Pant-grunt; **RN**: Rain
RD: Rain display; **SOIL**: Eating red soil; **STK**: Stick use; **TLU**: Tool use; **UNF**: Unusual food; **Q**: Other unusual events
PAT: Patrol (Non-conflict hair erection? Sniff? Bipedal? Scan? Reassurance touch? Close single file?)

KPC Behavior

Day 26 Month NOV Year 2009 KPC KT Others SM FM TW Found N

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
712	OL chased OG who was barking, screaming. OL supplanted him.				OG	Fled				
715	AJ	OL OT	OG	OM OL	J/800	V	FBR	RF	Ø	
730	AJ	OL OT	OG	OM OL	"	V	FBR	RF	Ø	
734	Heard distant calls from the south of mikana, the party responded with pant hoots.									
742	AJ coming down from FBR and started moving.									
745	AJ	OL OT	OG	OM OL	J/800	V	FBR	RF	Ø	
747	AJ separated from the rest of the party.									
748	AJ made vocal displays and buttress bangs, no response from any where.									
754	AJ joined YB who made pant grunts to him,									PTG

Aggression/Received Aggression (Use additional sheets and describe on back if necessary)

Time	ID	VD Duration	NvD	Chase	Attack 1	2	3	Victim ID	Response of Victim No	Av	Submission	Tn	Rt	RA	Context	Height T or G
712	OL			45sec				OG		F	YES				Food competition in KNOLL	T
748	AJ	12sec						None								G

Copulation

Time	Duratio	Fem	Male	Interfere?	Groom?	Scream?	Dart	Who approached?	Notes

At 15-MINUTE INTERVALS: Party composition, Location, Food, MNK Estrous: 1=None, 2=Partial, 3=Full

AP: Adult play; **CP**: Copulation; **CY**: Carry; **DR**: Drink; **ELE**: Elephants; **FBK**: Food Bark; **HCG**: Hand-clasp groom; **HNY**: Honey
IGI: Intergroup interaction; **LF**: Leaf use; **MAT**: Monkeys attack; **PIG**: Pigs; **Pred**: Predation; **PTG**: Pant-grunt; **RN**: Rain
RD: Rain display; **SOIL**: Eating red soil; **STK**: Stick use; **TLU**: Tool use; **UNF**: Unusual food; **Q**: Other unusual events
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AJ did not respond.

KPC Behavior

Day 26 Month Nov Year 2009 KPC KJ Others SM Found N

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
800	AJ YB				M/CRd	✓	THV	THV	Ø	
807	it started raining, chimps continued									RN
	on feeding THV.									
815	AJ YB				M/CRd	✓	THV	THV	Ø	
830	AJ YB				"	✓	THV	THV	Ø	
841	chimps coming out of THV.									
842	AJ eating red soil from the roots of									SL
	a fallen tree.									
844	chimps climbed into FBR making									[illegible]
	food grunts but did not feed.									
845	AJ YB				N/16				Ø	
847	YB grooming AJ									
848	AJ grooming YB									
853	chimps started feeding on FBR - RF									
857	it stoped raining.									

Aggression/Received Aggression (Use additional sheets and describe on back if necessary)

Time	ID	VD	NvD	Chase	Attack			Victim	Response of Victim						Context	Height
		Duration			1	2	3	ID	No	Av	Submission	Tn	Rt	RA		T or G

Copulation

Time	Duratio	Fem	Male	Interfere?	Groom?	Scream?	Dart	Who approached?	Notes

At 15-MINUTE INTERVALS: Party composition, Location, Food, MNK Estrous: 1=None, 2=Partial, 3=Full

AP: Adult play; **CP**: Copulation; **CY**: Carry; **DR**: Drink; **ELE**: Elephants; **FBK**: Food Bark; **HCG**: Hand-clasp groom; **HNY**: Honey
IGI: Intergroup interaction; **LF**: Leaf use; **MAT**: Monkeys attack; **PIG**: Pigs; **Pred**: Predation; **PTG**: Pant-grunt; **RN**: Rain
RD: Rain display; **SOIL**: Eating red soil; **STK**: Stick use; **TLU**: Tool use; **UNF**: Unusual food; **Q**: Other unusual events
PAT: Patrol (Non-conflict hair erection? Sniff? Bipedal? Scan? Reassurance touch? Close single file?)

KPC Behavior

Day 26 Month Nov Year 2009 KPC KJ Others SM Found N

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
950	AJ YB				N/16	✓	FBR	RF	Ø	
955	AJ YB				"	✓	FBR	RF	Ø	
960	AJ YB				"	✓	FBR	RF	Ø	
965	AJ YB				"	✓	FBR	RF	Ø	
958	AJ coming down from FBR									
1000	YB AJ				N/16	✓	FBR	RF	Ø	
1007	YB coming down from FBR.									
1010	YB made vocal displays and buttress bumps AJ made pant hoots. Then they climbed into FEX and started feeding on YL.									
1015	YB AJ				4/13	✓	FEX	YL	ROC	
1030	AJ YB				"	✓	FEX	YL	ROC	
1045	AJ YB				"				ROC	
1100	AJ YB				"				ROC	

Aggression/Received Aggression (Use additional sheets and describe on back if necessary)

Time	ID	VD Duration	NvD	Chase	Attack 1	2	3	Victim ID	Response of Victim No	Av	Submission	Tn	Rt	RA	Context	Height T or G
1010	YB	5sec						None							Social excitement	G

Copulation

Time	Duratio	Fem	Male	Interfere?	Groom?	Scream?	Dart	Who approached?	Notes

At 15-MINUTE INTERVALS: Party composition, Location, Food, MNK Estrous: 1=None, 2=Partial, 3=Full

AP: Adult play; **CP**: Copulation; **CY**: Carry; **DR**: Drink; **ELE**: Elephants; **FBK**: Food Bark; **HCG**: Hand-clasp groom; **HNY**: Honey
IGI: Intergroup interaction; **LF**: Leaf use; **MAT**: Monkeys attack; **PIG**: Pigs; **Pred**: Predation; **PTG**: Pant-grunt; **RN**: Rain
RD: Rain display; **SOIL**: Eating red soil; **STK**: Stick use; **TLU**: Tool use; **UNF**: Unusual food; **Q**: Other unusual events
PAT: Patrol (Non-conflict hair erection? Sniff? Bipedal? Scan? Reassurance touch? Close single file?)

KPC Behavior

Day 26 Month Nov Year 2009 KPC KJ Others SM Found N

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
1115	AJ YB				4/13				RDC	
1130	AJ YB				4/13	V	FEX	4L	RDC	
1145	AJ YB				"	V	FEX	4L	RDC	
1156	2 Adult	Males (RDC) crossed		over to the feeding						
	tree making calls and			chased YB & AJ						
	who fled to the lower			branches silently.						
200	AJ YB				4/13				RDC	
1245	AJ YB				"				"	
1225	chimps	came	down	to the ground.						
1226	AJ picking	chrisophyllum	fruits	from						
	the ground.									
1230	AJ YB				W/12				RDC	
1231	YB grooming AJ									
1239	Hand clasp	mutual groom	AJ ↔ YB							HCG
1241	YB grooming AJ	after	hand	clasp.						

Aggression/Received Aggression (Use additional sheets and describe on back if necessary)

Time	ID	VD	NvD	Chase	Attack			Victim	Response of Victim						Context	Height
		Duration			1	2	3	ID	No	Av	Submission	Tn	Rt	RA		T or G

Copulation

Time	Duratio	Fem	Male	Interfere?	Groom?	Scream?	Dart	Who approached?	Notes

At 15-MINUTE INTERVALS: Party composition, Location, Food, MNK Estrous: 1=None, 2=Partial, 3=Full

AP: Adult play; **CP**: Copulation; **CY**: Carry; **DR**: Drink; **ELE**: Elephants; **FBK**: Food Bark; **HCG**: Hand-clasp groom; **HNY**: Honey
IGI: Intergroup interaction; **LF**: Leaf use; **MAT**: Monkeys attack; **PIG**: Pigs; **Pred**: Predation; **PTG**: Pant-grunt; **RN**: Rain
RD: Rain display; **SOIL**: Eating red soil; **STK**: Stick use; **TLU**: Tool use; **UNF**: Unusual food; **Q**: Other unusual events
PAT: Patrol (Non-conflict hair erection? Sniff? Bipedal? Scan? Reassurance touch? Close single file?)

KPC Behavior

Day 26 Month Nov Year 2004 KPC KJ Others SM Found N

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
1242	AJ grooming YB									
1245	AJ YB				W/12				ROC	
1246	YB grooming AJ									
1249	AJ grooming YB									
1256	YB grooming AJ									
1257	AJ grooming YB									
1300	AJ YB				W/12				ROC	
1303	YB grooming AJ									
1305	AJ grooming YB									
1315	AJ YB				W/12				ROC	
1330	AJ YB				"				ROC	
1334	YB grooming AJ									
1340	AJ grooming YB									
1345	AJ YB				W/12				ROC	
1348	YB grooming AJ									

Aggression/Received Aggression (Use additional sheets and describe on back if necessary)

Time	ID	VD / Duration	NvD	Chase	Attack 1	2	3	Victim ID	Response of Victim No	Av	Submission	Tn	Rt	RA	Context	Height T or G

Copulation

Time	Duratio	Fem	Male	Interfere?	Groom?	Scream?	Dart	Who approached?	Notes

At 15-MINUTE INTERVALS: Party composition, Location, Food, MNK Estrous: 1=None, 2=Partial, 3=Full

AP: Adult play; **CP**: Copulation; **CY**: Carry; **DR**: Drink; **ELE**: Elephants; **FBK**: Food Bark; **HCG**: Hand-clasp groom; **HNY**: Honey
IGI: Intergroup interaction; **LF**: Leaf use; **MAT**: Monkeys attack; **PIG**: Pigs; **Pred**: Predation; **PTG**: Pant-grunt; **RN**: Rain
RD: Rain display; **SOIL**: Eating red soil; **STK**: Stick use; **TLU**: Tool use; **UNF**: Unusual food; **Q**: Other unusual events
PAT: Patrol (Non-conflict hair erection? Sniff? Bipedal? Scan? Reassurance touch? Close single file?)

KPC BEHAVIOUR WK ①

DAY: 26 MONTH: NOV YEAR: 2009 KPC: KJ OTHERS: SM FOUND: N

Time	Party Composition				Loc	F	SP	PT	MNK	BEH
	AMM	AFF (incl. estrous)	JMM (&inf)	JFF (&inf)						
1351	YB grooming		AJ							
1352	AJ self groom									
1358	AJ & YB feeding on monodora fruits from the ground.									
1400	AJ YB				W/10	✓	MDR	RF	ϕ	
1414	YB climbed into MDR.									
1415	AJ YB				W/10	✓	MDR	RF	ϕ	
1430	AJ YB				"	✓	MDR	RF	ϕ	
1440	YB coming down from monodora.									
1443	YB eating brown soil from the roots of a fallen tree.									
1446	chimps joined WL who was in a day nest and she made pant barks before them but they ignored her. YB look at her only.									
1445	AJ YB	WL	WC		W/9				ϕ	
1448	YB feeding on ACA PITH.									

Aggression/Received aggression

Time	Aggr.	VD	NvD	CHA	Attack			Vic	Response of victim						Behavioural context	T/G
	ID	Duration			1	2	3	ID	No	Av	Tn	Sb	Rt	RA		

Copulations

Time	Duration	Fem	Male	Interfere?	Groom?	Scream?	Dart?	Approach:	Notes

At 15-MIN INTERVALS: Party composition, Location, Food, MNK

Estrous: 1=None; 2=Partial; 3=Full

AP: adult play; CP: copulation; CY: carry; DR: drink; ELE: elephants; FBK: food bark; HCG: hand-clasp groom; HNY: honey; IGI: inter-group interaction; LF: leaf use; MAT: monkeys attack; PIG: pigs; PRED: predation; PTG: pant-grunt; RN: rain; RD: rain display; SOIL: eating red soil; STK: stick use; TLU: tool use; UNF: unusual food; Q: other unusual events; PAT: patrol (non-conflict hair erection? Sniff? Bipedal? Scan? Reassurance touch? Close single file?)

KPC BEHAVIOUR

DAY: 26 MONTH: NOV YEAR: 2009 KPC: KT OTHERS: SM FOUND: N

Time	Party Composition				Loc	F	SP	PT	MNK	BEH
	AMM	AFF (incl. estrous)	JMM (&inf)	JFF (&inf)						
1450	WL approached	AJ pant barking,					AJ ignored			
1451	WL feeding on ACA PITH									
1454	WL approached AJ pant grunting and									PTG
	presented before him, AJ inspected her by									
	smelling on the estrous then groomed her.									
1456	Hand clasp mutual groom AJ ← → WL									HCG
1457	WL grooming AJ after hand clasp.									
1458	Hand clasp mutual groom AJ ← → WL									HCG
1459	WL grooming AJ after hand clasp.									
1500	AJ YB	WL	WC		9/2				ϕ	
1503	Hand clasp mutual groom AJ ← → WL									HCG
1504	WL grooming AJ									
1505	AJ grooming WL									
1507	WL grooming AJ									
1511	~~WL grooming YB.~~									
1515	YB AJ	WL	WC		7/7	V	TTO	YL	ϕ	
1520	AJ & YB feeding on UTM flowers.									

Aggression/Received aggression

Time	Aggr.	VD	NvD	CHA	Attack			Vic	Response of victim						Behavioural context	T/G
	ID	Duration			1	2	3	ID	No	Av	Tn	Sb	Rt	RA		

Copulations

Time	Duration	Fem	Male	Interfere?	Groom?	Scream?	Dart?	Approach:	Notes

At 15-MIN INTERVALS: Party composition, Location, Food, MNK

Estrous: 1=None; 2=Partial; 3=Full

AP: adult play; CP: copulation; CY: carry; DR: drink; ELE: elephants; FBK: food bark; HCG: hand-clasp groom; HNY: honey; IGI: inter-group interaction; LF: leaf use; MAT: monkeys attack; PIG: pigs; PRED: predation; PTG: pant-grunt; RN: rain; RD: rain display; SOIL: eating red soil; STK: stick use; TLU: tool use; UNF: unusual food; Q: other unusual events; PAT: patrol (non-conflict hair erection? Sniff? Bipedal? Scan? Reassurance touch? Close single file?)

KPC BEHAVIOUR

DAY: 26 MONTH: NOV YEAR: 2009 KPC: KT OTHERS: SM FOUND: N

Time	Party Composition				Loc	F	SP	PT	MNK	BEH
	AMM	AFF (incl. estrous)	JMM (&inf)	JFF (&inf)						
1530	YB AJ	WL	WC		Z/3	✓	THV	THV	Ø	
1545	YB AJ	WL	WC		"	✓	THV	THV	Ø	
1600	YB AJ	WL	WC		"	✓	THV	THV	Ø	
1615	YB AJ	WL	WC		"	✓	THV	THV	Ø	
1630	YB AJ	WL	WC		"	✓	THV	THV	Ø	
1645	YB AJ	WL	WC		"	✓	THV	THV	Ø	
1700	YB AJ	WL	WC		"	✓	THV	THV	Ø	
1710	It started raining, chimps continued on feeding									RN
1715	YB AJ	WL	WC		Z/3	✓	THV	THV	Ø	
1730	YB AJ	WL	WC		"	✓	THV	THV	Ø	
1742	It stopped raining									
1745	AJ YB	WL	WC		B/6	✓	THV	THV	Ø	
1749	YB feeding on TRI YL									
1752	AJ also feeding on TRI YL									
1800	AJ YB	WL	WC		B/L	✓	TRI	YL	✓	
1804	WL making a night nest in strombozia of about 27 cm dbh at 15 metres high.									

Aggression/Received aggression

Time	Aggr.	VD	NvD	CHA	Attack			Vic	Response of victim						Behavioural context	T/G
	ID	Duration			1	2	3	ID	No	Av	Tn	Sb	Rt	RA		

Copulations

Time	Duration	Fem	Male	Interfere?	Groom?	Scream?	Dart?	Approach:	Notes

At 15-MIN INTERVALS: Party composition, Location, Food, MNK

Estrous: 1=None; 2=Partial; 3=Full

AP: adult play; CP: copulation; CY: carry; DR: drink; ELE; elephants; FBK: food bark; HCG: hand-clasp groom; HNY: honey; IGI: inter-group interaction; LF: leaf use; MAT: monkeys attack; PIG: pigs; PRED: predation; PTG: pant-grunt; RN: rain; RD: rain display; SOIL: eating red soil; STK: stick use; TLU: tool use; UNF: unusual food; Q: other unusual events; PAT: patrol (non-conflict hair erection? Sniff? Bipedal? Scan? Reassurance touch? Close single file?)

KPC BEHAVIOUR

DAY: 26 MONTH: NOV YEAR: 2009 KPC: KJ OTHERS: SM FOUND: N

Time	Party Composition				Loc	F	SP	PT	MNK	BEH
	AMM	AFF (incl. estrous)	JMM (&inf)	JFF (&inf)						
1807	AJ making a night nest in a UVA of about									
	23 cm dbh at 15 metres high.									
1815	~~AJ~~ YB	W2	WC		YB/6				Ø	
1816	YB started making a night nest in a UVA									
	of about 18 cm dbh at 12 metres high.									
1820	OBs left the nesting site.									

Aggression/Received aggression

Time	Aggr.	VD	NvD	CHA	Attack			Vic	Response of victim						Behavioural context	T/G
	ID	Duration			1	2	3	ID	No	Av	Tn	Sb	Rt	RA		

Copulations

Time	Duration	Fem	Male	Interfere?	Groom?	Scream?	Dart?	Approach:	Notes

At 15-MIN INTERVALS: Party composition, Location, Food, MNK

Estrous: 1=None; 2=Partial; 3=Full

AP: adult play; **CP**: copulation; **CY**: carry; **DR**: drink; **ELE**: elephants; **FBK**: food bark; **HCG**: hand-clasp groom; **HNY**: honey; **IGI**: inter-group interaction; **LF**: leaf use; **MAT**: monkeys attack; **PIG**: pigs; **PRED**: predation; **PTG**: pant-grunt; **RN**: rain; **RD**: rain display; **SOIL**: eating red soil; **STK**: stick use; **TLU**: tool use; **UNF**: unusual food; **Q**: other unusual events; **PAT**: patrol (non-conflict hair erection? Sniff? Bipedal? Scan? Reassurance touch? Close single file?)