DAY 10th MONTH AUG YEAR 2004 OBS-PC KJ TMF/40 FM 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	FL	FW	GRID	MNK	SP	PT
Estrus													13						11									1																						
5:45																																																	
6:00																																																	
6:15				X			X	X	X										X	X	X							X	X	X										X			X		I 25		—	—
6:30				X			X	X	X										X	X	X							X	X	X										X			X				—	—
6:45				X			X	X	X										X	X	X							X	X	X										X			X				—	—
7:00				X			X	X	X										X	X	X							X	X	X										X			X		I 25		—	—
7:15				X			X	X											X	X	X							X	X	X										X			X		I 26		—	—
7:30				X			X	X											X	X	X							X	X	X										X			X		H 26		—	—
7:45				X			X	X											X	X	X							X	X	X										X			X		H 26		—	—
8:00				X			X	X											X	X	X							X	X	X										X			X		I 26		—	—
8:15				X			X	X																				X	X	X													X		I 27		—	—
8:30				X			X	X																				X	X	X													X		J 27		—	—
8:45				X			X	X																				X	X	X													X				—	—
9:00				X			X	X																				X	X	X													X				—	—
9:15				X			X	X																				X	X	X													X				URH	RF
9:30				X			X	X			X		X	X														X	X	X													X				URH	RF
9:45				X			X	X			X		X	X														X	X	X													X		J 28		URH	RF
10:00				X			X	X			X		X	X														X	X	X													X				THV	THV
10:15				X			X	X			X		X	X														X	X	X													X				THV	THV
10:30				X			X	X			X		X	X														X	X	X													X				URH	RF
10:45							X	X			X		X	X														X	X	X													X		J 28		—	—
11:00							X	X			X		X	X														X	X	X													X		J 27		URH	RF
11:15							X	X			X		X	X														X	X	X													X				URH	RF
11:30				X			X	X			X		X	X														X	X	X													X				THV	THV
11:45				X			X	X			X		X	X														X	X	X													X					
12:00				X			X	X			X		X	X														X	X	X													X					
12:15				X			X	X			X		X	X														X	X	X													X				THV	THV
12:30				X			X	X			X		X	X														X	X	X													X					
12:45				X			X	X			X		X	X														X	X	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	FL	FW	GRID	MNK	SP	PT
13:00				X			X	X			X		X	X														X							X							X				THV	THV
13:15				X			X	X			X		X	X														X							X							X				THV	THV
13:30				X			X	X			X		X	X														X							X							X				—	—
13:45				X			X	X			X		X	X														X							X							X				—	—
14:00				X			X	X			X		X	X														X							X							X				THV	THV
14:15				X			X	X			X		X	X														X							X							X				URH	RF
14:30							X	X			X		X	X														X							X							X					
14:45							X	X			X		X	X														X							X							X					
15:00							X	X			X		X	X														X							X							X					
15:15							X	X			X		X	X														X							X							X				URH	RF
15:30							X	X			X		X	X														X							X							X				—	—
15:45							X	X			X		X	X														X							X							X				—	—
16:00							X	X			X		X	X														X							X							X				—	—
16:15							X	X			X		X	X														X							X							X				—	—
16:30							X	X			X		X	X														X							X							X				EHR	RF
16:45							X	X			X		X	X														X							X							X				—	—
17:00							X	X			X		X	X														X							X							X				FBR	RF
17:15				X					X		X		X	X																					X							X				FBR	RF
17:30				X					X		X		X	X																					X							X				FBR	RF
17:45				X					X		X		X	X																					X							X				—	—
18:00				X			X	X			X		X	X																					X							X				—	—
18:15				X			X	X			X		X	X																					X							X				—	—
18:30				X			X	X			X		X	X																					X							X				URH	RF
18:45				X			X	X			X		X	X																					X							X				FUR	YL
19:00				X			X	X			X		X	X																					X							X				—	—
19:15				X			X	X			X		X	X																					X							X				COM	RF
19:30																																																	
19:45																																																	
20:00																																																	
20:15																																																	
20:30																																																	
	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	FL	FW	GRID	MNK	SP	PT
Health				4															4																															

COMMENTS CU was heard coughing. YB has swound on his buttocks.

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

KPC Behavior

GPS A — OU, OT, AL, ML,

DAY 10th MONTH AUG YEAR 2009 KPC KT OTHERS FM FOUND N

Time	Party Composition: AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF (Juveniles and Infants)	Loc	F	SP	PT	MNK	BEH
610	Obs arrived at the nesting site.									
615	KK LK YB PG	OU OT AL	AT AZ OG	OM OL AN NP	HS NB				ø	
630	KK LK YB PG	OU OT AL	AT AZ OG	OM OL NP AN	"				ø	
645	KK LK YB PG	OU OT AL	AT AZ OG	OM OL NP AN	"				ø	
658	YB coming out of his night nest.				ML	Joined the party making pant barks, Others did the same.				
700	KK LK YB PG	OU OT AL ML	AT AZ OG	OM OL NP AN	HS NB				ø	
701	ML was chased by some one and fled screaming then KK and LK left their nests making vocal displays Others made waar.									
703	KK made vocal displays and buttress bangs some one fled screaming.									
707	KK made vocal displays and buttress bang some one fled pant barking.									
710	OT made attack ① on ML who retaliated screaming and they exchanged slaps, AT made non vocal displays against them OT fled screaming, OG NP and ML made waar barks.									

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

Time	ID	VD Duration	NvD Duration	Chase	Attack 1	Attack 2	Attack 3	Victim ID	Response of Victim: No	Av	Submission	Tn	Rt	RA	Behavioral Context	Height T or G
710	OT				✓			ML		C	YES			✓	Un known	T
"	ML				✓			OT	N		YES				Self protection	T
"	AT		6sec					OT		F	YES				conflict intervention	T

Copulation

Time	Duration	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 10th MONTH AUG YEAR 2009 KPC KT OTHERS FM FOUND N

Time	Party Composition: AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF (Juveniles and Infants)	Loc	F	SP	PT	MNK	BEH
713	LK made non vocal displays and made attack one on ou by a kick, she retaliated screaming and chased him, LK fled making non vocal displays - KK intervened making									
714	non vocal displays and chased ou who fled screaming. PG went missing.									
715	KK LK YB	AL OU OT ML	AT AZ OG	OM OL AN NP	5S NB				∅	
717	KK made vocal displays and chased some one who fled screaming.									
724	OT AT NP & OG chased ML and she fled screaming YB made non vocal displays									
730	KK LK YB	AL OU OT ML	AT AZ OG	OM OL NP AN	NB EST				∅	
731	ou was heard coughing									
734	KK made non vocal displays ou made pant barks.									
743	Heard distant calls from the east LK YB KK made vocal displays and wears AMes made wears too.									
744	YB has awound on his bottox.									

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

Time	ID	VD	NvD	Chase	Attack 1	2	3	Victim ID	Response of Victim: No	Av	Submission	Tn	Rt	RA	Behavioral Context	Height T or G
		Duration														
713	LK		3sec		✓			ou		C	YES		✓		Un known -	T
11	ou			4sec				LK		F	NO				self protection	T
713	KK		6sec	3sec				ou		F	YES				conflict intervention	T
734	KK		9sec					ou		C	YES				Un known	G

Copulation

Time	Duration	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 10th MONTH AUG YEAR 2009 KPC KJ OTHERS FM FOUND N

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
745	KK LK YB	AL ML OLOT	AT AZ OG	OM OL NP AN	NB EST				∅	
746	K K LK YB Made Joint vocal displays									
	and buttress bungs Others made waas									
	and pant barks.									
753	KK LK & YB Made Joint vocal displays									
	KK made buttress bungs Others made									
	pant hoots.									
755	KK LK YB Made Joint vocal displays, KK									
	made buttress bungs AT & NP made waas.									
800	KK LK YB	AL ML OLOT	AT AZ OG	OM OL NP AN	SS SE				∅	
802	KK grooming YB as AT grooms LK.									
804	LK moved towards AT and he made pant									PTG
	grunts before him									
805	Ou family AL AZ AN and ML went missing									
	and are out of the party, Obs followed									
	KK YB LK AT and NP only.									
809	AT grooming YB.									
815	KK LK YB		AT	NP	GG EB				∅	

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

Time	ID	VD	NvD	Chase	Attack			Victim	Response of Victim						Behavioral Context	Height
		Duration			1	2	3	ID	No	Av	Submission	Tn	Rt	RA		T or G
746	KK	6sec						NONE							Un Known	G
753	KK	9sec						NONE							Un Known	G
755	KK	8sec						NONE							Un Known	G

Copulation

Time	Duration	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
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RD: Rain display; SOIL: Eating red soil; **STK:** Stick use; **TLU:** Tool use; **UNF:** Unusual food; **Q:** Other unusual events
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KPC Behavior

WL1 BU3 BL1

DAY 10 MONTH AUG YEAR 2009 KPC KJ OTHERS FM FOUND N

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
820	LK feeding on ANG YL.									
830	KK LK YB		AT	NP	HE EST				ϕ	
844	chimps joined WL WC									
845	KK YB LK	WL			EST SB					
846	WL approached YB pant grunting							YB		PTG
	Ignored.									
847	LK approached WL who made pant grunts									PTG
	and then presented to him, LK inspected									
	her by smelling on the estrous and									
	groomed her too.									
850	WL made pant grunts to LK who Ignored									PTG
900	KK LK YB	WL	AT WC	NP	SB EST				ϕ	
906	NP AT and WL feeding on URH RF.									
915	KK YB LK	WL	AT WC	NP	EST SB	✓	URH	RF	ϕ	
923	BU BL BO and PB joined the party pant barking.									
	PB approached KK pant grunting, KK Ignored									PTG
926	AS AT was copulating with BU LK made									
	non vocal displays and chased AT who fled screaming.									

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	Behavioral Context	Height T or G
923	LK		3Sec	USed				AT		F	YES				Sexual competition	G

Copulation

Time	Duration	Fem	Male	Interfere?	Groom?	Scream?	Dart	Who approached?	Notes
926	45ec	BU	AT	YES	NO	NO	YES	AT	
928	55ec	BU	YB	NO	NO	NO	YES	YB	

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KPC Behavior

DAY 10 MONTH AUG YEAR 2009 KPC KJ OTHERS FM FOUND N

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
927	BL BO made pant barks then LK made non vocal displays others made pant barks									
930	KK LK YB PB	WL BL BU	WCAT BO	NP	165 SB	✓	URH	RF	Ø	
940	LK made non vocal displays and chased Bu who fled screaming PB avoid him pant barking.									
945	KK LK YB PB	WL BL BU	WCAT BO	NP	165 SB	✓	URH	RF	Ø	
945	LK made non vocal displays and chased Bu who fled screaming, PB also fled pant barking.									
946	WL approached PB pant barking and groomed him.									
948	PB grooming WL									
952	KK made non vocal displays some Jds fled screaming and pant barking, LK fled up the tree.									
955	LK approached KK and mounted him then groomed him too.									

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

Time	ID	VD	NvD	Chase	Attack			Victim	Response of Victim						Behavioral Context	Height
		Duration			1	2	3	ID	No	Av	Submission	Tn	Rt	RA		T or G
940	LK		15sec	35sec				BU		F	YES				Sexual completion	G
945	LK		2sec	35sec				BU		F	YES				Sexual completion	G

Copulation

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

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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 10th MONTH AUG YEAR 2009 KPC KJ OTHERS FM FOUND N

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
957	chimps started feeding on THV									
1000	KK LK YB PB	WL BL BU	AT WL BO	NP	16 SB	✓	THV	THV	∅	
1014	LK KK made non vocal displays and chased PB who fled screaming. BU and AT fled pant barking.									
1015	KK LK YB PB	WL BL BU	AT WC BO	NP	16 SB	✓	THV	THV	∅	
1024	LK moved towards AT who fled pant barking.									
1026	LK and PB feeding on URH.									
1030	KK LK YB PB	WL BL BU	AT BO WC	NP	16 SB	✓	URH	RF	∅	
1031	AT grooming KK									
1032	LK grooming KK									
1034	LK self grooming.									
1035	KK grooming LK									
1036	LK grooming WL.									
1037	LK approached BU erected BU avoided him casually pant barking and climbed a tree.									
1038	WL giving AFR wadge to her infant (WC)									
11	KK climbed into URH and started feeding.									

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	Behavioral Context	Height T or G
1014	LK	8sec						PB		F	Yes				Sexual completion	G

Copulation

Time	Duration	Fem	Male	Interfere?	Groom?	Scream?	Dart	Who approached?	Notes
1003	6sec	BU	PB	NO	NO	NO	NO	BU	

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

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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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KPC Behavior

DAY 10th MONTH AUG YEAR 2009 KPC KJ OTHERS FM FOUND N

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
1039	LK made non vocal displays and chased BU who fled Pant barking. YB went missing.									
1043	PB approached KK Pant grunting KK ignored									PTG
1044	PB eating clay soil from the roots of a fallen tree.									
1045	KK LK PB	BL BU WL	BOAT WC	NP	16S SB				Ø	
1046	PB grooming LK									
1047	Hand clasp mutual groom LK ⇔ PB									HCG
1048	PB grooming LK.									
1050	LK grooming PB									
1051	PB grooming LK.									
1100	KK LK PB	BL BU WL	ATBO WC	NP	EST SB	✓	URH	RF	Ø	
1105	LK moved towards BU who fled Pant barking.									
1109	LK made non vocal displays against BU and she fled screaming.									
1115	KK LK PB	BL BU WL	ATBO WC	NP	EST SB	✓	URH	RF	Ø	
1119	WL chased NP and she fled screaming, others did not respond.									

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

Time	ID	VD Duration	NvD Duration	Chase	Attack 1	2	3	Victim ID	Response of Victim No	Av	Submission	Tn	Rt	RA	Behavioral Context	Height T or G
1039	LK		35sec	55sec				BU		F	YES				sexual completion	G
1109	LK		6sec					BU		F	YES				un known	T
1119	WL			45ec				NP		F	YES				un known	T

Copulation

Time	Duration	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

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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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KPC Behavior

DAY 10th MONTH AUG YEAR 2009 KPC KJ OTHERS FM FOUND N

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
1120	Some Jd's feeding on THV.									
1130	KK LK YB PB	BL BU WL	ATBO WC	NP	EST SB	✓	THV	THV	∅	
1145	KK LK YB PB	BL BU WL	ATBO WC	NP	"	✓	THV	THV	∅	
1150	some one was chased by KK then attacked in appr view and fled screaming, some Jd's also fled screaming and pant barking.									
1151	AT approached YB pant grunting YB Ignored.									
1156	PB grooming YB.									
1159	Hand clasp mutual groom				YB ⇄ PB					HCG
1200	KK YB LK PB	BL BU WL	ATBO WC	NP	EST SB	✓	THV	THV	∅	
1201	PB grooming YB after hand clasp.									
1215	KK YB LK PB	BL BU WL	ATAZ WC	NP	EST SB	✓	THV	THV	∅	
1223	LK made non vocal displays AT fled Pant barking.									
1228	AT approached LK pant grunting and groomed him.									PTG
1230	YB KK LK PB	BL BU	ATAZ WC	NP	EST SB				∅	
1245	YB KK PB LK	BL BU WC	ATAZ WC	NP	"				∅	

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

Time	ID	VD	NvD	Chase	Attack			Victim	Response of Victim						Behavioral Context	Height
		Duration			1	2	3	ID	No	Av	Submission	Tn	Rt	RA		T or G
1223	LK		7sec					AT		F	YES				Un known	G

Copulation

Time	Duration	Fem	Male	Interfere?	Groom?	Scream?	Dart	Who approached?	Notes
1215	6sec	BU	AT	NO	NO	NO	NO	BU	

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 10th MONTH AUG YEAR 2009 KPC KJ OTHERS FM FOUND N

Time	Party Composition: AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
1256	LK grooming YB									
1258	YB grooming LK									
1259	Mutual groom YB ⟷ LK									
1300	KK LK YB PB	BL BU WL	BO WE AT	NP	EST SB	✓	THV	THV	∅	
1302	YB grooming LK									
1302	BL approached LK pant grunting. LK groomed her									PTG
1306	LK grooming YB.									
1308	YB grooming LK.									
1315	KK LK YB PB	WL BL BU	AT BO WE	NP	EST SB	✓	THV	THV	∅	
1317	KK made non vocal displays and chased BU who fled pant barking.									
1321	KK grooming YB									
1324	YB grooming BL after approaching him pant grunting.									PTG
1325	KK grooming WL.									
11	AT grooming YB									
1326	Mutual groom KK ⟷ WL									

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	Behavioral Context	Height T or G
1317	KK		45sec	35sec				BU		F	YES				Unknown	G

Copulation

Time	Duration	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 10th MONTH AUG YEAR 2009 KPC KJ OTHERS FM FOUND N

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
1327	WC inspecting BU by smelling on the estrous.									
1328	WL grooming KK.									
1330	LK KK PB YB	BL BU WL	AT BO WC	NP	EST SB				♂	
1331	Hand clasp mutual groom	WL ↔	YB							HCG
1332	WL grooming YB after hand clasp									
1333	Hand clasp mutual groom	YB ↔	WL							HCG
1334	YB grooming WL as LK grooms him self.									
11	WC playing alone by swinging									
1338	Hand clasp mutual groom	YB ↔	WL							HCG
1339	WL grooming YB									
1341	Leaf groom by WL for 76 sec. She was									LF
	grooming YB and groomed WC after. AT was									
	watching her									
1343	BU grooming BL									
1345	KK LK PB YB	WL BL BU	BO WC AT	NP	EST SB				♂	
11	LK made non vocal displays and chased BU									
	who fled screaming then slaped her, YB									
	chased BL also fled screaming then KK intervened									

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

Time	ID	VD	NvD	Chase	Attack			Victim	Response of Victim						Behavioral Context	Height
		Duration			1	2	3	ID	No	Av	Submission	Tn	Rt	RA		T or G
1345	LK		3sec	4sec				BU		F	YES				Sexual competetion	G
11	YB			4sec				BL		F	YES				Self Protection	G
11	KK		5sec					None							conflict intervention	G

Copulation

Time	Duration	Fem	Male	Interfere?	Groom?	Scream?	Dart	Who approached?	Notes
1344	4sec	BU	YB	NO	NO	NO	NO	BU	
1345	5sec	BU	YB	YES	NO	NO	NO	BU	

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 10th MONTH AUG YEAR 2009 KPC KJ OTHERS FM FOUND N

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
	making non vocal displays				LK		stopped			
	chasing BL									
1346	LK grooming KK									
1347	KK grooming LK.									
1355	LK made non vocal displays, BL and BL fled									
	Pant barking.									
1400	KK LK YB PB	BL BU WL	AT BO WC	NP	EST 3G	✓	THW	THW	∅	
1404	KK moved towards BL who made						Pant grunts			PTG
	before him, KK ignored.									
1412	chimps climbed into URH.									
1415	KK LK YB YB SB	BL BU WL	AT WC BO	NP	EST 4G	✓	URH	RF	∅	
1420	PB went missing and are out of the party.									
1430	KK LK	BL BU WL	AT WC BO	NP	EST 4G	✓	URH	RF	∅	
1445	KK LK	BL BU WL	AT WC BO	NP	"	✓	URH	RF	∅	
1500	KK LK	BL BU WL	AT WC BO	NP	"	✓	URH	RF	∅	
1507	BO playing with AT by touching and chasing.									
1515	KK LK	BL BU WL	AT WC BO	NP	EST 4G	✓	URH	RF	∅	
1523	LK grooming KK									

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	Behavioral Context	Height T or G
1355	LK		95ec					BU		F	YES				sexual competition	G

Copulation

Time	Duration	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 10th MONTH AUG YEAR 2009 KPC KJ OTHERS FM FOUND N

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
1524	LK made non vocal displays and chased BL and BU, BL fled screaming while BU pant barking.									
1527	KK eating brown soil from the ground.									
1529	BU eating red soil from a hole on the ground.									
1530	KK LK	BL BU WL	BO AT WE	NP	HE EST				∅	
1531	BL eating soil from the ground.									
1538	KK LK made joint vocal displays BL fled screaming others did not respond.									
1545	KK LK	BL BU WL	AT BO WE	NP	HE EB				∅	
1559	KK made vocal displays and buttress bangs BL fled screaming others made pant barks.									
1600	KK LK	BL BU WL	AT BO WE	NP	7S HE				∅	
1605	KK & LK made vocal displays and buttress bangs others made pant barks.									
1615	KK LK	BL BU WL	BO WE AT	NP	5S 5E				∅	
1617	WL WE BO BU climbed into EHT making food barks and started feeding on RF.									FBK

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	Behavioral Context	Height T or G
1524	LK		35ec	35ec				BL		F	YES				un known	G
1538	KK	55ec						BL		F	YES				un known	G
1559	KK	45ec						BL		F	YES				un known	G
1605	KK	75ec						NONE							un known	G
"	LK	55ec						NONE							un known	G

Copulation

Time	Duration	Fem	Male	Interfere?	Groom?	Scream?	Dart	Who approached?	Notes
1602	55ec	BU	AT	NO	NO	NO	NO	AT	

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 10th MONTH AUG YEAR 2009 KPC KJ OTHERS FM FOUND

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
1621	KK climbing into EHR.									
1630	KK LK	BL Bu WL	AT BO WC	NP	5G HS	✓	EHR	RF	∅	
1632	KK coming down from EHR									
1634	All chimps left ERH.									
1645	KK LK	BL WL Bu	AT BO WC	NP	6G 2S				∅	
1658	BL family and NP joined YB PB and PG at									
	1S/NB. YB & PB were feeding on FBR. BL Bu									
	NP and BO made pant barks.									
1700	KK LK PG	WL BL Bu	AT BO WC	NP	1S NB	✓	FBR	RF	∅	
1704	PG made non vocal displays and buttress									
	bangs others did not respond.									
1705	KK WL (WC) AT and LK went missing.									
1715	YB PB PG	BL Bu	BO	NP	1S NB	✓	FBR	RF	∅	
1716	YB coming down from FBR.									
1718	PB PG also coming down from the feeding tree.									
1723	PB feeding on FST YL.									UNF
1729	Bu coming down from FBR.									
11	PG made non vocal displays. Bu fled pant barking.									

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	Behavioral Context	Height T or G
1701	PG		9sec					NONE							Redirection	G
1729	PG		~~75ec~~	25ec				Bu		F	yes				Un Known	G

Copulation

Time	Duration	Fem	Male	Interfere?	Groom?	Scream?	Dart	Who approached?	Notes
1701	45ec	Bu	YB	NO	NO	NO	NO	Bu	
1705	55ec	Bu	PB	NO	NO	NO	NO	Bu	

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 10th MONTH AUG YEAR 2009 KPC KJ OTHERS FM FOUND N

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
1730	PG PB YB	BL BU	BO	NP	15 NB	V	FBR	RF	♂	
1731	BL and BO coming down from FBR, PG made non vocal displays BL fled pant barking									
1734	PG made non vocal displays				BL	BU	BO	NP		
	fled silently.									
1736	PG made non vocal displays and chased BL									
	who fled screaming.									
1742	PG made non vocal displays towards BL who									
	avoided him casual pant barking									
1743	PB eating clay soil from the elephant foot									SOIL
	print.									
1745	PG PB YB	BL BU	BO	NP	15 BG				♂	
1746	PG made non vocal displays and stamping									
	the ground some one made screams.									
1749	PG made non vocal displays and chased BU									
	who fled screaming then continued displaying									
	and chased BL who also fled screaming then									
	distant calls were heard.									

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	Behavioral Context	Height T or G
1731	PG		6sec					BL		F	YES				Un known	G
1734	PG		7sec					BL		F	NO				Un known	G
1736	PG		4sec	4sec				BL		F	YES				Un known	G
1742	PG		6sec					BL		C	YES				Un known	G
1749	PG		48sec	3sec				BU		F	YES				Un known	G

Copulation

Time	Duration	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 10th MONTH AUG YEAR 2009 KPC KJ OTHERS FM FOUND N

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
1757	chimps joined KK & WL. KK made non									
	vocal displays BL fled pant barking.									
	others made pant barks.									
1800	KK YB PG PB	BL BU WL	BO WE	NP	5G 1S				Ø	
1807	chimps climbed into FOT, PB made food barks FBK									
	BO approached him screaming and they shook									
	hands.									
1813	BL BU BO coming down from FOT.									
1815	KK YB PG PB	BL BU WL	BO WE	NP	1S 5G				Ø	
1817	BL BO & BU climbed into URH making food									
	grunts.									
1830	KK YB PG PB	BL BU WL	BO WE	NP	1S 5G	✓	URH	RF	Ø	
1831	BL BU BO & NP coming down from URH.									
1845	KK YB PB PG	BL BU WL	BO WE	NP	HAG WB	✓	FUR	HL	Ø	
1900	KK YB PG PB	BL BU WL	BO WE	NP	1F WB				BLU	
1902	KK WL made vocal displays others made									
	both waars and pant hoots.									
1905	BU BO & NP climbed into CON for feeding									

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	Behavioral Context	Height T or G
1757	KK		6sec					BL		F	YES				Re union	G
1902	KK	7sec						NONE							Un known	G
"	WL	4sec						NONE							Un known	G

Copulation

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

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RD: Rain display; SOIL: Eating red soil; **STK:** Stick use; **TLU:** Tool use; **UNF:** Unusual food; **Q:** Other unusual events
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KPC Behavior

DAY 10th MONTH AUG YEAR 2009 KPC KJ OTHERS FM FOUND N

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
1915	KKPG YBPB	BLBU WL	BOWC	NP	1G WB				BLU	
1920	Obs left the chumps before nesting feeding on com and it was coming dark.									

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

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

Copulation

Time	Duration	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

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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?)