DAY 02nd MONTH NOV YEAR '09 OBS-PC Fm TMF/40 TW JR HOW FOUND M

Estrus: 1 2 / 1

Column headers (party composition): 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 OL AN | GRID | MNK | SP | PT

Time	GRID	MNK	SP	PT
5:45				
6:00				
6:15				
6:30	K/22		—	—
6:45			TRA	RF
7:00			—	—
7:15			COA	RF
7:30			"	"
7:45			COA	RF
8:00			THN	THV
8:15		RDC	CHT	YL
8:30			"	"
8:45			FEX	
9:00			"	
9:15			"	
9:30	K/22	RDC	FEX	YL
9:45	K/23		THY	THV
10:00	"		"	"
10:15	h		"	"
10:30	K/23		THV	THV
10:45	J/23		PHY	RF
11:00			COA	"
11:15			—	—
11:30			FCY	RF
11:45			THV	THV
12:00			—	—
12:15			—	—
12:30			—	—
12:45	J/23		—	—
13:00	I/23		—	—
13:15	I/24		—	—
13:30			PAP	PUH
13:45				
14:00				
14:15				
14:30				
14:45			PAP	PUH
15:00			—	—
15:15	I/24		—	—
15:30	I/25		COA	RF
15:45			"	"
16:00			THV	THV
16:15			"	"
16:30			COA	RF
16:45			THV	THV
17:00		BWC	"	"
17:15		"	THV	THV
17:30			FBR	RF
17:45			"	"
18:00	I/25		—	—
18:15	I/26		COA	RF
18:30			"	"
18:45				
19:00				
19:15				
19:30				
19:45				
20:00				
20:15				
20:30				

Health: 1 1 | 1 | 1 1 1 1 | 1 1 1 | 2 1

COMMENTS: On was heard coughing.

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

AL ① OU ① OT ②

KPC Behavior

Day **02nd** Month **Nov** Year **2009** KPC **Fm** Others **TW JR** Found **M**

Time	AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
627	Obs arrived at the nest site.									
630		ALOT OU	ATOGAZ	AN Omol	Bug /800					
638	OU OT og feeding on TRA ripe fruit.									
644	AL (AN) leaving the night nest.									
645	AT leaving the night nest.									
645		ALOT OU	ATOGAZ	AN Omol	Bug /800	✓	TRA	RF		
653	OU made attack two to AT by slapping and kicking, and he screamed but didn't avoid. AL just made waarbarks.									
700		ALOT OU	ATOGAZ	AN Omol	Bug /800					
703	Chimps climbed into COA									
715		ALOT OU	ATOGAZ	AN Omol	Bug /800	✓	COA	RF		
730		ALOT OU	ATOGAZ	AN Omol	"	✓	"	"		
731	OU grooming OT.									
734	OU grooming OL.									

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 Behavior

Day 02nd Month NOV Year 2009 KPC Fm Others TW JR Found N

Time	AMM	AFF (Include estrous)	JMM	JFF (Juveniles and Infants)	Loc	F	SP	PT	MNK	BEH
736	Og grooming ou.									
740	AL grooming AT.									
745		ALOT ou	ATOGAZ	ANOMOL	800/Bug	✓	CON	RF		
746	AT grooming AL.									
754	Chimps leaving the feeding tree.									
800		ALOT ou	ATOGAZ	ANOMOL	800/Bug	✓	THN	THN		
815		ALOT ou	ATOGAZ	ANOMOL	1sue/Bug	✓	CHT	YL	ROC	
824	Heard distant calls from East of mikana and this party didn't respond.									
830		ALOT ou	ATOGAZ	ANOMOL	1su/Bug	✓	CHT	YL	ROC	
845		ALOT ou	ATOGAZ	ANOMOL	"	✓	FEX	"	"	
900		ALOT ou	ATOGAZ	ANOMOL	"	✓	"	"	"	
915		ALOT ou	ATOGAZ	ANOMOL	"	✓	"	"	"	
930		ALOT ou	ATOGAZ	ANOMOL	))	✓	FEX	YL	ROC	
941	Chimps leaving the FEX and moved into THN.									

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 Behavior

Day 02nd Month Nov Year 2009 KPC Fm Others TW JR Found N

Time	AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
			Party Composition							
945		ALOT OU	ATOGAZ	AN Omou	Bug /MFP	✓	THV	THV		
1000		ALOT OU	ATOGAZ	AN Omou	"	✓	"	"		
1015		ALOT OU	ATOGAZ	AN Omou	GLT /1200	✓	"	"		
1030		ALOT OU	ATOGAZ	AN Omou	"	✓	"	"		
1036	Chimps feeding on PHY.									
1045	Ku joined the party and others pant-barked.									
1045	Ku	ALOT OU	ATOGAZ	Omou AN	GLT /Bug	✓	PHY	RF		
1055	There was a fight in poor view among the juveniles and there was alot of screams, then OU waarbarked.									
1100	Ku	ALOT OU	ATOGAZ	Omou AN	GLT /Bug	✓	COA	RF		
1115	Ku	ALOT OU	ATOGAZ	AN Omou	"					
1119	Og made an arm threat to Au who chased him and he fled screaming to OU. OU Au made arm threats to each other and screamed,									

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

Time	ID	VD Duration	NvD	Chase	Attack 1 2 3	Victim ID	No	Av	Response of Victim Submission	Tn	Rt	RA	Context	Height T or G
1119	Au			3secs		Og	F		✓				Unknown	9
1119	Ku		6secs			None							conflict intervention	9

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 **02nd** Month **Nov** Year **2009** KPC **Fm** Others **Tw Jm** Found **M**

Time	AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
	then KU made non vocal displays and									
	they stopped.									
1130	KU	ALOT DU	ATDG AZ	AN Omon	K/WST	✓	FCH	RF		
1145	KU	ALOT DU	ATDG AZ	AN Omon	"	✓	THV	THV		
1148	DU grooming OT.									
1200	KU	ALOT DU	ATDG AZ	AN Omon	K/WST					
1202	AL grooming AZ.									
1215	KU	ALOT DU	ATDG AZ	AN Omon	K/WST					
1218	AZ grooming AL.									
1220	AL grooming AZ.									
1222	Om playing with AZ by biting and wrestling.									
1223	AZ grooming Om.									
1230	KU	ALOT DU	AZ OG AT	AN Omon	Rock Trail/WST					
1241	OL was heard coughing. (Dry).									
1245	KU	ALOT DU	AZ OG AT	AN Omon	Rock Trail/WST					

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

Time	ID	VD Duration	NvD	Chase	Attack 1	2	3	Victim ID	No	Av	Response of Victim 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 Behavior

Day 02ⁿᵈ Month Nov Year 2009 KPC Fm Others TW Found M

Party Composition

Time	AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
1300	KK	AL OT QU	ATOGAZ	AN OMOL	WST/OFFINI					
1315	KK	AL OT QU	ATOGAZ	AN OMOL	7EBX/WST					
1318	Chimps moved into the swamp and started									
	feeding on PAP pith.									
1330	KK	AL OU OT	ATOGAZ	AN OMOL	7EBX/WST	✓	PAP	Pith		
1345	KK	AL OU OT	ATOGAZ	AN OMOL	"	✓	"	"		
1400	KK	AL OU OT	ATOGAZ	AN OMOL	"	✓	"	"		
1415	KK	AL OU OT	ATOGAZ	AN OMOL	"	✓	"	"		
1430	KK	AL OU OT	ATOGAZ	AN OMOL	"	✓	"	"		
1445	KK	AL OT QU	ATOGAZ	AN OMOL	7EBX/WST	✓	PAP	Pith		
1456	Chimps leaving the swamp except KK, and									
	they started moving.									
1500		AL OT QU	ATOGAZ	AN OMOL	7EBX/WST					
1515		AL OT QU	ATOGAZ	AN OMOL	NB/WB					
1526	chimps climbed into COA and fed LK.									

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

Time	ID	VD Duration	NvD	Chase	Attack 1	2	3	Victim ID	No	Av	Response of Victim 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 Behavior

Day 02nd Month NOV Year 2009 KPC Fm Others TW _____ Found N

Party Composition

Time	AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
1530	LK	AL OT DU	ATOGAZ	AN OMOL	NB/2⁵	✓	COA	RF		
1542	OT fought with AT who retaliated fighting and chasing her. AN approached and kicked OT, and both OT AT fell from the tree screaming and fled to different directions.									
1545	LK	AL OT DU	ATOGAZ	AN OMOL	NB/2⁵	✓	COA	RF		
53	Chimps leaving the feeding tree.									
1600	LKKK	AL OT DU	ATOGAZ	AN OMOL	9E/2⁵	✓	THV	THV		
1615	LKKK	AL OT DU	ATOGAZ	AN OMOL	"	✓	"	"		
1620	Chimps climbed into COA but AL (AN) AZ stayed in THV.									
1630	LKKK	AL OT DU	ATOGAZ	AN OMOL	9E/2⁵	✓	COA	RF		
1632	Chimps leaving the COA.									
1644	LK grooming KK.									
1645	LKKK	AL OT DU	ATOGAZ	AN OMOL	9E/2⁵	✓	THV	THV		

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

Time	ID	VD Duration	NvD	Chase	Attack 1 2 3	Victim ID	No	Av	Response of Victim Submission	Tn	Rt	RA	Context	Height T or G
1542	OT				✓	AT			✓			✓	food competition	T
1542	AL			✓		OT		F	✓				protection	T
1550	KK		7secs			None							Reunion	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?)

1550 KK joined the party and made NvD.

KPC Behavior

Day **02nd** Month **Nov** Year **2009** KPC **Fm** Others **TW** Found **N**

Time	AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
		Party Composition								
1646	Hand clasp mutual groom LK ⇄ KK									Hcg
1648	LK grooming KK.									
1649	KK grooming LK.									
1700	LKKK	ALOT OU	ATOJAZ	AN OMOL	9E/2S	✓	THV	THV	Bwc	
1715	LKKK	ALOT OU	ATOJAZ	AN OMOL	"	✓	"	"	"	
1724	AT eating brown soil from the roots of a fallen tree.									Soil
1728	KK made non vocal displays and OU OTALAT Mon into trees pantibarking. He chased LK who fled into the tree screaming.									
1729	AN eating red soil from the roots of a fallen tree.									
1729	Chimps climbed into FBR except AN family.									
1730	LKKK	ALOT OU	ATOJAZ	AN OMOL	6AE/4S	✓	FBR	RF		
1745	LKKK	ALOT OU	ATOJAZ	AN OMOL	"	✓	"	"		

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

Time	ID	VD Duration	NvD	Chase	Attack 1	2	3	Victim ID	No	Av	Response of Victim Submission	Tn	Rt	RA	Context	Height T or G
1728	KK			9sec	35sec			LK	F		✓				Unknown	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 02nd Month NOV Year 2009 KPC Fm Others TW Found N

Time	AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
1751	Chimps leaving the feeding tree.									
1753	Lk grooming KK.									
1753	Og eating red soil from the roots of									SOIL
	a fallen tree.									
1754	Om share soil with Og from his hand.									SOIL
1800	LkKk	ALOJOu	ATOgAz	AM Omor	6 AE /4 S					
.13	Lk grooming KK.									
1815	LkKk	ALOJOu	ATOgAz	AM Omor	6 AE /5 S	✓		COA	RF	
1821	KK building a night nest, 5m high,									
	DBH 15 cm (E) Sp. Uvariopsis.									
1826	Lk building a night nest.									
1830	LkKk	ALOJOu	ATOgAz	AM Omor	6 AE /5 S	✓		COA	RF	
1837	It started raining.									RN
1840	It rained heavily and Obs had to									
	leave and the females were still in COA.									

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

Time	ID	VD Duration	NvD	Chase	Attack 1	2	3	Victim ID	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?)