DAY 19 MONTH 09 YEAR 09 OBS-PC ST TMF/40 SM HOW FOUND NEST

	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	CV	AM	GRID	MNK	SP	PT
Estrus																																																	
5:45																																																	
6:00												X																			X	X													N/25	BWC	—	—
6:15												X																			X	X													"	"	—	—
6:30												X																			X	X														None	—	—
6:45												X																			X	X															ADH	RF
7:00												X																			X	X															"	"
7:15							X					X																			X	X														None	"	"
7:30							X					X																			X	X													N/25	BLU	"	"
7:45							X					X																			X	X													N/25	none	—	—
8:00							X		X			X							X	X	X										X	X												X			—	—
8:15							X		X			X							X	X	X										X	X												X			—	—
8:30							X		X			X							X	X	X										X	X												X			—	—
8:45							X		X			X							X	X	X										X	X												X			—	—
9:00							X		X			X							X	X	X										X	X												X			—	—
9:15							X		X			X							X	X	X										X	X												X			None	—	—
9:30							X		X			X							X	X	X										X	X												X			MGb	ACA	PITH
9:45							X		X			X							X	X	X										X	X												X			—	—	—
10:00							X		X			X							X	X	X										X	X												X			—	—	—
10:15							X		X			X							X	X	X										X	X												X			MGB	FCP	UF
10:30							X		X			X							X	X	X										X	X												X			None	—	—
10:45							X		X			X							X	X	X										X	X												X			N/25		—	—
11:00																															X	X													N/26		CAF	YL
11:15																															X	X													"		"	"
11:30																															X	X													"		—	—
11:45																			X	X	X							X	X	X	X	X												X			N/26		—	—
12:00																			X	X	X							X	X	X	X	X												X			N/25		FBR	RF
12:15																			X	X	X							X	X	X	X	X												X					"	"
12:30																			X	X	X							X	X	X	X	X												X					—	—
12:45																			X	X	X							X	X	X	X	X												X			N/25	None	FBR	RF
	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	CV	AM				
13:00																			X	X	X							X	X	X	X	X												X			N/25	None	—	—
13:15																			X	X	X							X	X	X	X	X												X					FBR	RF
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			N/25		—	—
14:15																															X	X													N/26		MAE	RF
14:30																															X	X															"	"
14:45																															X	X															"	"
15:00																															X	X															MAE	PITH
15:15																															X	X													N/26		MAE	RF
15:30																															X	X													N/25		—	—
15:45																															X	X													"		APH	RF
16:00																															X	X													"		"	"
16:15																															X	X													N/25		CAF	YL
16:30																															X	X													O/25		—	—
16:45																															X	X														None	PEX	RF
17:00																															X	X														"	"	"
17:15																															X	X															—	—
17:30																															X	X															—	—
17:45																															X	X														None	—	—
18:00																															X	X														"	—	—
18:15																															X	X													O/25	None	—	—
18:30																																																
18:45																																																
19:00																																																
19:15																																																
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	CV	AM	GRID	MNK	SP	PT
Health							1		1			1							2	1	1							1	1	1	2												1	1					

COMMENTS 905 LO was heard Coughing 812 OU 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

KPC BEHAVIOUR

LR → (I)

DAY: 19 MONTH: 09 YEAR: 09 KPC: TJ OTHERS: SM FOUND: NEST

Time	Party Composition				Loc	F	SP	PT	MNK	BEH
	AMM	AFF (incl. estrous)	JMM (&inf)	JFF (&inf)						
552	OBS arrive at the nest site.									
600	TJ	LR	LO		C/BFP				BWZ	
615	TJ	LR	LO		n				BWC	
623	TJ leaving the night nest.									
625	TJ made vocal displays and buttress									
	bangs and LR didn't respond.									
626	LR left her day nest									
628	LR approach	Pant-grunt to	TJ and he							PTG g.rasped, PTG
629	LR approach	Pant-grunt, and	made soft	bites on	TJ					
630	TJ	LR	LO		E/14				Ø	
631	TJ and LR (LO) climbed into the feeding tree.									
637	Distant calls heard from south of K-14 and..									
	LR made pant-hoots.									
645	TJ	LR	LO		E/14 ✓		APH	RF	Ø	
650	Chimps	Climbed down from	APH,	and	started					
	moving on	the ground.								
657	LR (LO)	TJ joined	LR in	the	feeding	tree				
	and LR made	Pant-bouts and	Pant-hoots,							

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		
625	TJ	85ec						Nom							Walk	g

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?)

OU → D OT → O

KPC BEHAVIOUR

DAY: 19 MONTH: 09 YEAR: 09 KPC: ST OTHERS: SM FOUND: NEST

Time	Party Composition				Loc	F	SP	PT	MNK	BEH
	AMM	AFF (incl. estrous)	JMM (&inf)	JFF (&inf)						
700	LK TJ	LR	LO		F/12	✓	APH	RF	∅	
715	LK TJ	LR	LO		F/12	✓	APH	RF	∅	
730	LK TJ	LR	LO		"	✓	"	"	BLV	
737	Distant calls heard from				North of K-14					
	and the focal IDs did not respond.									
739	chimps climbed down from				APH and started					
	moving on ground									
742	LK made vocal displays, And				LR made waas					
745	LK	LR	LO		A/17				∅	
745	LK and LR made joint vocal displays and									
	some individuals from the distant made waas									
748	LK and LR made joint vocal displays and									
	some IDs from the distant made waas.									
753	LK made non-vocal displays as they saw									
	other IDs									
800	LK TJ DLR OU OT	OU LO	OM OL		T/24				∅	
805	OU grooming	PG shortly								
808	OU grooming	OL								

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		
742	LK	bsd						None							Unknown	g
745	LK/LR	10sd						None							Social excitement	g
748	LK/LR	85sd						none							Social excitment	g

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? Rea... rance touch? Close single file?)

KPC BEHAVIOUR

DAY: 19 MONTH: 09 YEAR: 09 KPC: ST OTHERS: SM FOUND: NEST

Time	Party Composition: AMM	AFF (incl. estrous)	JMM (&inf)	JFF (&inf)	Loc	F	SP	PT	MNK	BEH
812	OL was heard Coughing.									
815	LK TJ PG	OL OT LR	OK LO	OM OL	T/24				∅	
821	LR approach	Pant-grunt and groom PG								PTG
822	Mutual grooming LR ⟷ PG									
824	PG grooming LR.									
830	LK PG TJ	LR OL OT	OK LO	OM OL	T/24				∅	
11	TJ approach	Pant-grunt to LK and LK groom TJ								PTG
831	LR grooming PG.									
832	PG grooming LR.									
833	OL approach	Pant-grunt and Present to								PTG
	LK, then LK	Inspected her by touching								
	Estrous and	groomed her.								
841	LR grooming PG									
845	LK PG TJ	LR OL OT	OK LO	OM OL	T/24				∅	
850	OT grooming OM									
859	LR grooming PG									
900	LK PG TJ	LR OL OT	OK LO	OM OL	T/24				∅	
905	LO was heard Coughing									

Aggression/Received aggression

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

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: 19 MONTH: 09 YEAR: 09 KPC: SJ OTHERS: SM FOUND: NEST

Time	Party Composition				Loc	F	SP	PT	MNK	BEH
	AMM	AFF (incl. estrous)	JMM (&inf)	JFF (&inf)						
914	LK	grooming PG								
915	LK PG TJ	LR OT OH	OH LO	OM OL	T/24				∅	
"	chain	groom	OG → LK	→	PG					
919	LR	grooming LO								
920	Handclasp	mutual	groom		LK ⇐⇒	PG				HCG
921	LK	grooming PG	after	handclasp						
924	chain	groom	OG →	LK →	PG					
929	Handclasp	Mutual	groom		PG ⇐⇒	LK				HCG
930	LK PG TJ	LR OU OT	OH	LO	OM OL	T/2	✓ ACA	PAT	MGB	
"	LK	grooming PG	after	handclasp						
931	mutual	grooming	LK ⇐⇒	PG						
932	Handclasp	Mutual	groom		PG ⇐⇒	LK				HCG
933	PG	grooming	LK	after	handclasp					
934	LK	grooming	PG							
936	LR	grooming	LO							
945	LK PG TJ	LR OU OT	OH	LO	OM OL	T/24			MGB	
946	Handclasp	Mutual	groom		LK ⇐⇒	PG				HCG
947	PG	grooming	LK	after	handclasp					

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: 19 MONTH: 09 YEAR: 09 KPC: SJ OTHERS: SM FOUND: NEST

Time	Party Composition				Loc	F	SP	PT	MNK	BEH
	AMM	AFF (incl. estrous)	JMM (&inf)	JFF (&inf)						
952	LR playing	with LO	by LR	touching and bite						AP
959	LK grooming	Pg								
1000	LK PG TJ	LR OT OU	Oh LO	Om OL	T/24				MGB	
"	Mutual groom	LK ⇄ Pg								
1008	LK leaf grooming for 40sec	Before he was								
	grooming Pg and after he was groomed by Pg									
1014	Handclasp	Mutual	groom		LK ⇄ Pg					HCg
1015	LK PG TJ	LR OT OU	Oh LO	Om OL	T/24	✓	FCP	UF	MGB	
1020	LK grooming	Pg.			T/24					
1030	LK PG TJ	LR OU OT			T/24				∅	
1045	LK PG TJ	LR OU OT			"				∅	
1050	Chimps	separated								
1055	LR feeding	MBR	YL							
1058	LR feeding	TRI	YL							
1059	LR feeding	~~into~~	CAF	YL						
1100	~~LR~~	LR	LO		D/21	✓	CAF	YL	∅	
1115		LR	LO		"	✓	"	"	∅	
1130		LR	LO		"				∅	

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: 19 MONTH: 09 YEAR: 09 KPC: ST OTHERS: SM AL → ① FOUND: NEST

Time	Party Composition: AMM	AFF (incl. estrous)	JMM (&inf)	JFF (&inf)	Loc	F	SP	PT	MNK	BEH
1131	LR (Lo) Climbed down from CAF									
1134	LR joined AL and OU family, LR approached AL ~~pant grunted~~ to her then AL groomed LR Shortly									PTG
1140	AZ inspected LR by smelling on her estrous.									
1145		LR AL OU OT	AZ AT OG LO	OM OL AN	15/BFP				∅	
1147	Chimps climbed sub FBR making food grunts									FBK
1200		LR AL OU OT	AZ AT OG LO	OM OL AN	K/KRP	✓	FBR	RF	∅	
1215		LR AL OU OT	AZ AT OG LO	OM OL AN	"	✓	"	"	∅	
1220	OU (OL) climbed from FBR									
1230		OU AL LR OT	AZ AZ OG LO	OM OL AN	K/KRP				①	
1235	OU makes a day nest tree of NEST, BOS Ht 6m									
1245		LR AL OU OT	AZ AT OG LO	OM OL AN	K/KRP	✓	FBR	RF	∅	
1300		LR OU AL OT	AT AZ OG LO	OM OL AN	"				∅	
1315		OU AL LR OT	AZ AT OG LO	OM OL AN	K/KRP	✓	FBR	RF	∅	
"	LR Playing with Lo by LR pating and tickling									AP
1330		OU AL LR OT	AZ AT OG LO	OM OL AN	K/KRP	✓	FBR	RF	∅	
1345		OU AL LR OT	AZ AT OG LO	OM OL AN	"	✓	"	"	∅	

Aggression/Received aggression

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

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: 19 MONTH: 09 YEAR: 09 KPC: ST OTHERS: SM FOUND:

Time	Party Composition: AMM	AFF (incl. estrous)	JMM (&inf)	JFF (&inf)	Loc	F	SP	PT	MNK	BEH
1355	LR grooming Lo									
1400		OU AL AZ AT OT LR OG LO		OM OL AN	K/KR				Ø	
1410	chumps separated									
1412	LR feeding MAE RF									
1415		LR	Lo		L/13	✓	MAE	RF	Ø	
1430		LR	Lo		M/13	✓	"	"	Ø	
1445		LR	Lo		"	✓	"	"	Ø	
1450	LR feeding on MAR pith									
1500		LR	Lo		M/13	✓	MAR	pith	Ø	
1510	LR feeding MAE RF									
1515		LR	Lo		M/13	✓	MAE	RF	Ø	
1527	LR Drinking water from a tree buttress using wadges (chewed leaves)									DR TLU
1530		LR	Lo		H/12				Ø	
1533	LR (Lo) climbed into APH for feeding RF									
1545		LR	Lo		F/12	✓	APH	RF	Ø	
"	Distant calls heard from west of K-14 and LR didn't respond									

Aggression/Received aggression

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

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: 19 MONTH: 09 YEAR: 09 KPC: ST OTHERS: SM FOUND: NEST

Time	Party Composition				Loc	F	SP	PT	MNK	BEH
	AMM	AFF (incl. estrous)	JMM (&inf)	JFF (&inf)						
1600		LR	LO		F/12	✓	APH	RF	∅	
1603	LR LO left branches		feeding	APH and	moved through					
1604	LR	feeding	CAT=	YL.						
1615		LR	LO		F/12	✓	CAT	YL	∅	
1620	LR feeding on brown soil from a fallen tree.									
1624	It started running.									
1630		LR	LO		H/3				∅	
1631	LR	climbed	into FLX	for	feeding			RF		
1645		LR	LO		H/3	✓	FLX	RF	∅	
1700		LR	LO		"	✓	"	"	RDT MOB	
1708	LR makes a night nest, tree of nest Ole									
	Height 14m DBH 20cm									
1715		LR	LO		H/3				RDT MOB	
1730		LR	LO		"				RDT MOB	
1745		LR	LO		"				∅	
1800		LR	LO		"				∅	
1815		LR	LO		"				∅	

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?)

1705 It stopped raining

1820 OBS left the nest site