DAY 31st MONTH Dec YEAR 09 OBS-PC SM FOC-OBS KJ OTHERS JM FM FC HOW FOUND N

| Estrus | | |

OU(1) BL(1) DT2 LR(2) AL(1) TJ(1) BU(1)

KPC Behavior

Day 31st Month Dec Year 09 KPC SM Others KJ Fm FC JM Found N

Time	Party Composition: AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
757	OBS arrived late to the nest site b'se of									
	Elephants but found chimps still around at									
	Karukonda OFF Trail feeding on SEv ripe									
	fruits.									
800	MS ST TU LK KK ES AJ	BL AL BU OU TJ LR	TT AT OJ AZ BO	OM TD TS AN OL EU NP	Karukonda OFF T	✓	SEV THV	RF THV	Ø	
815	TU LK MS LK KK ST ES AJ	BL AL BU TJ LR OU DT	TT AT OJ AZ BO	OM TD TS AN OL EU NP	"	✓	"	"	Ø	
830	TU MS ST LK KK ES AJ	BL OU BU TJ LR OT AL	TT AT OJ AZ BO	OM TS TD AN OL EU NP	"	✓	"	"	Ø	
841	KK made VD ST - avoid casual Silent others									
	made pant hoots									
845	TU MS LK ST ES LK AJ	BL BU OU LR TJ OT AL	TT BO OJ AT AZ	OM TD TS AN OL EU NP	Karukonda OFF T	✓	SEV THV	RF THV	Ø	
900	TU ST MS LK ES LK AJ	BL OU BU TJ LR OT AL	TT BO OJ AT AZ	OM TD TS AN OL EU NP	"	✓	"	"	Ø	
905	KK was heard Sneezing									
915	ST KK MS LK AJ ES TU	TJ OU OT BU BL AL LR	TT AZ AT OJ BO	EU OL OM TD TS NP AN	Karukonda OFF T	✓	SEV	RF	Ø	
930	ST KK MS LK AJ ES TU	TJ OT OU BU BL AL LR	TT AZ AT OJ BO	EU OL OM TS TD NP AN	Karukonda NFP	✓	"	"	Ø	
933	ST was heard coughing (dry cough).									

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
841	KK	4sec						ST		C	Silent				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?)

721 OU feeding on red soil from roots of a fallen tree.

KPC Behavior

Day 31st Month Dec Year 09 KPC SM Others KJFMFCJM Found N

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
945	TU MS KK ES LK AJ ST	AL OU OT BU BL LR TG	AT OG AZ TT BO	EU OL OM TS TD NP AN	Kurukondu NFP	✓	SEV THV	RF THV	Ø	
948	Tu grooming KK									
952	ES KK Tu made Food barks while feeding on									FBK
	SEV fruits Others others responded with pant									
	hoots and food barks									
956	ES Made NVD but no one responded									
1000	TU LK MS KK ES AJ ST	AL OU OT BU BL LR AL	AT OG AZ TT BO	EU OL OM TS TD NP AN	Karukondu NFP	✓	SEV THV	RF THV	Ø	
1006	AL Pant grunted to Tu he Ignored									PTG
1015	TU LK MS KK ES AJ ST	AL OU OT BU BL LR AL	OG AT AZ TT BO	EU OL OM TS TD NP AN	NFP 800	✓	SEV THV	RF THV	Ø	
1030	TU LK MS KK ES AJ ST	AL OU OT BU BL LR AL	OG AT AZ TT BO	EU OL OM TS TD NP AN	"	✓	"	"	Ø	
1045	TU LK MS KK ES AJ ST	AL OU OT BU BL LR AL	OG AT AZ TT BO	EU OL OM TS TD NP AN	"	✓	"	"	Ø	
1056	AL grooming AT									
1057	ST playing with AZ by tickling and make soft									AP
	bites on each other									
1100	TU LK MS KK ES AJ ST	AL OU TG OT BL BU LR	OG AT AZ TT BO	EU OL OM TS TD NP AN	NFP 800	✓	SEV THV	RF THV	Ø	

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

Time	ID	VD Duration	NvD	Chase	Attack 1	Attack 2	Attack 3	Victim ID	Response of Victim No	Av	Submission	Tn	Rt	RA	Context	Height T or G
956	ES		3sec					None							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
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950 AN was heard sneezing

RD (2)

KPC Behavior

Day 31st Month Dec Year 09 KPC SM Others KJ FM FCJM Found N

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
1112	Tu grooming ST									
1113	Hand clasp mutual groom Tu <-> ST									Hcg
1114	Mutual groom after hand clasp Tu <-> ST									
1115	TU ST MS LK ES AJ KK	TG BU LF BL AK OU OT	09 AZ TT AT BO	EU OM AN OL NP IS TD	NFP 800	V	THV	THV	∅	
1123	KK ST TU made joint VD Others made pant hoots									
1125	KK ST made joint VD and TU joined them making NVD and chased AZ who fled screaming climbing a tree								∅	
1130	TU AJ LK ES KK MS ST	TG BU LF BL AK OU OT	09 AZ TT AT BO	EU OM AN OL NP TS TD	02 T 800					
1131	KK TU ES made joint VD then TU ES made buttress bangs. Others pant hoots									
1133	Chimps joined RD who made pant hoots then NP mounted her and made genital genital rub then RD groomed NP									EGR

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
1123	KK ST TU	8Sec						None							Unknown	G
1125	KK ST	6sec						None							U U	G
1125	TU		3Sec	2Sec				AZ		F	Scream				U U	G
1131	KK TU ES	10Sec						None							U U	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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1132 Some individuals left the party and moved away.

KPC Behavior

Day 31st Month Dec Year 09 KPC SM Others KJ FM FC JM Found N

Time	Party Composition: AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
1139	Ah and TG	made joint chase to RD								
	who	fled screaming into different								
	tree's	Others didn't respond								
1145	TU KK ES ST MS	AH TG OU OT RD	TT DG AT AZ	EU OL OM AN PD TS TD	C/800				RDe	
1145	KK chased RD who fled Screaming at									
	Sametime KK Tu made joint attack (3) to									
	RD with Kicks and slaps in adense vegetation									
	She Screamed but not avoid. Others Made									
	Waars									
1149	KK made attack (3) to RD with kicks, slaps									
	trapping her on ground RD retaliate while									
	Screaming and bitting each other and Ah also slapped									
	RD. Others made Waar barks									
1200	TU KK ST ES MS	OU OT TG AH RD	TT DG AT AZ	EU OL OM AN PD TS TD	B/800				D	
1215	TU KK ST ES MS	OU OT TG AH RD	TT DG AT AZ	EU OL OM AN PD TS TD	U				D	

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
1139	AH TG			50sec				RD		F	Scream				Reunion	T
1145	KK TU			45ec			✓	RD		F	Scream				Unknown	G
1149	KK						✓	RD	✓		Scream		✓		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 31st Month Dec Year 09 KPC SM Others KJ FM FCJM Found N

Time	Party Composition: AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
1230	MS TU ST KK ES	AL OU OT TG RD	TT AT 09 AZ	EU OL DMS TD NP PAN	B/800				0	
1234	Some ID's climbed into PSD tree Silent and									
	Started feeding on unripe fruits									
1242	OU grooming OT									
1248	MS TU ST KK ES	AL OT OU TG RD	TT AT AZ 09	EU OL DM TD NP SPAN	B/800	✓	PSD	UF	0	
1250	Chimps	Climbed down and Moving on ground								
1251	KK and MS made joint VD and buttress									
	bungs Others made pant hoots									
1252	KK and MS Made joint VD and ES joined them									
	Making VD and buttress bungs Others Made									
	pant barks									
1254	Chimps climbed into PSD tree and start-									
	feeding on unripe fruits									
1300	MS TU ST ES KK	TG AT OU OT AL RD	OG AZ AT TT	EU OL DM TD NP SPAN	CC/800	✓	PSD	UF	0	
1307	AL feeding on CAF young leaves									

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
1251	KKMS	6sec						None							unknown	G
1252	KKMS	6Sec						"							" "	G
1252	ES	4Sec						"							" "	G

Copulation

Time	Duratio	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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1250 ST approached TG who pant grunted and groomed him.

KPC Behavior

Day 31st Month Dec Year 09 KPC SM Others KJ FM FC JM Found N

Time	Party Composition: AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
1314	chimps climbed down and moving on									
	ground									
1315	KK ST TU ST MS ES	RD OT OU OT TG AT	OG AT AT TT	EL TS TD OM OL OM NP AN	CC/800				Ø	
1317	KK made VD and ES joined him									
	with VD KK made buttress bougs									
	others made pant barks									
1318	Chimps climbed into FBR tree silent									
	and start feeding on ripe fruits									
1319	KK chased ES in a feeding tree he									
	fled pant barking									
1330	KK ST TU ST MS ES	RD OT OU OG AT	OG AT AT TT	EL TS TD OM OL OM NP AN	B/800	V	FBR	RF	Ø	
1337	ES made VD and buttress bougs other									
	s made wagars									
1338	Chimps climbed down on ground then									
	moving.									

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
1317	KK	7Sec						None							Social excitement	G
1319	KK			3Sec				ES		F	pant bark				Food competition	T
1337	ES	4Sec						None							Unknown	G

Copulation

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

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KPC Behavior

Day 31st Month Dec Year 09 KPC SM Others KJ FM FC JM Found ____

Time	Party Composition: AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
1339	KK made VD	and	buttress	bungs						
	Others	Made	pant hoots							
1345	MS TU ST KK ES	AF RD TG DU OT	09 AZ AT TT	EU TS NP TD AN DL OM	CC 800				Ø	
1350	Chimps	Started	feeding	on	THV	in				
	a dense	vegetation								
1400	MS TU ST ES KK	AF RD TG DU OT	09 AZ AT TT	EU TS TD AN NP DL OM	CC 800	✓	THV	THV	Ø	
1418	MS TU ST ES KK	AF RD TG DU OT	09 AZ AT TT	EU TS TD AN NP DL OM	T 400				Ø	
1417	RD	left	the party	and	moved	away.				
1418	KK	made	VD	and	buttress	bungs	Others			
	did n't	respond								
1419	Chimps	climbed	into	PSD	tree	Silent	and			
	Start	feeding	on	unripe	fruits					
1427	chimps	climbed	down	and	Moving	on				
	ground									
1430	KK TU ES MS ST	TG DU AF OT	TT AT 09 AZ	EU AN NP TS TD DL OM	T 400				Ø	

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
1339	KK	4Sec						None							Unknown	G
1418	KK	3Sec						None							" "	G

Copulation

Time	Duratio	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 31st Month Dec Year 09 KPC SM Others KJ FM FCJM Found N

Time	Party Composition: AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
1433	KK Made VD and buttress				bungs			Others		
	Made wears									
1434	KK Made VD and buttress bungs Some									
	one made wears									
1435	chimps climbed into FEX tree Making food									FBK
	barks and start feeding on ripe fruits at									
	Same time LR BL BU BO joined the party While									
	making Pant barks									
1445	KK MS TU ES ST	BL LR TG BU AT DU OT	OG AT TT BO AZ	EU NP AN OM OL TD TS	CC 400	✓	FEX	RF	Ø	
1500	KK MS TU ES ST	BL LR TG BU AT DU OT	OG AT TT BO AZ	EU NP AN OM OL TD TS	"	✓	"	"	Ø	
1515	KK MS TU ES ST	BL LR TG BU AT DU OT	OG AT TT BO AZ	EU NP AN OM OL TD TS	"	✓	"	"	Ø	
1530	KK MS TU ES ST	BL LR TG BU AT DU OT	OG AT TT BO AZ	EU NP AN OM OL TD TS	"	✓	"	"	Ø	
1545	KK MS TU ES ST	LR BU TG BL AT OU OT	OG AT TT BO AZ	EU NP AN OM OL TD TS	"	✓	"	"	Ø	
1600	KK MS TU ES ST	LR BU TG BL AT DU OT	OG AZ TT AT BO	EU NP AN OM OL TD TS	"	✓	"	"	Ø	
1615	KK MS TU ES ST	LR BU TG BL AT OU OT	OG AZ TT AT BO	EU NP AN OM OL TD TS	"	✓	"	"	MGB	

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
1433	KK	35sec						None							Unknown	G
1434	KK	25sec						"							" "	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

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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 31st Month Dec Year 09 KPC SM Others KJFMFCJM Found N

Time	Party Composition AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
1620	it started raining									RN
1630	KK MS TU ST ES	TG OT BU OU BL AL LR	09 TT BO AT AZ	EU AN TD NP TS OL OM	CC 400	✓	FEX	RF	MgB	
1645	KK MS TU ES ST	TG OT BU OU BL AL LR	09 BO TT AT AZ	EU AN TD NP TS OL OM	"	✓	"	"	"	
1700	KK MS TU ES ST	TG OT BU OU BL LR AL	09 BO TT AT AZ	EU AN TD NP TS OL OM	"	✓	"	"	"	
1710	it stoped raining									
1715	KK MS TU ST ES	TG OT BU AL OU BL LR	09 BO TT AT AZ	EU AN TD NP TS OL OM	CC 400	✓	FEX	RF	MgB	
1726	Chimps climbed down on ground and									
	Moving									
1730	KK MS TU ST ES	TG OT BU OU BL LR AL	09 BO TT AT AZ	EU AN TD NP TS OL OM	CC 400				Ø	
1730	Bu approach pant grunting to KK helgnored									PTG
1732	KK made VD and buttress bungs									
	Others made pant hoots									
1737	Some ID's climbed into FBR tree silent and									
	feeding on ripe fruits									
1745	KK MS ES TU ST	TG AL OU LR OT BU BL	TT AT 09 BO AZ	EU TD OM TS OL NP AN	B 400	✓	FBR UVA	RF RF	Ø	

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
1732	KK	6sec						None							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

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PAT: Patrol (Non-conflict hair erection? Sniff? Bipedal? Scan? Reassurance touch? Close single file?)

KPC Behavior

Day 31st Month Dec Year 09 KPC SM Others KJ FmFC JM Found N

Time	Party Composition: AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF	Loc	F	SP	PT	MNK	BEH
1749	chimps climbed down and moving on ground.									
1753	KK Made VD and buttress bangs						Others			
	Pant hooted									
1758	KK made NUD		BL fled	pant barking						
1800	KK TU ST MS ES	TG BL BL AL LF OU OT	BO AT AT 09 TT	EU AN NP OM OL OD TS TD	C/400				Ø	
1801	Chimps climbed into UVA				grooves and					
	feeding on ripe fruits Silent									
1815	KK TU ST MS ES	TG BL BU BL AL LF OU OT	BO AT AT 09 TT	EU AN NP OM OL OD TS TD	C/400	✓	UVA	RF	Ø	
1830	KK TU ST MS ES	TG BL BU BL AL LF OU OT	BO AT AT 09 TT	EU AN NP OM OL OD TS TD	U	✓	U	U	Ø	
1831	ST building a night nest tree =				UVA		HT = 9m			
	Dbh = 12cm									
1833	KK building a night nest tree =				UVA		HT			
	= 7m Dbh = 8cm									
1840	OBS leaving the nest site									

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
1753	KK	75sec						None							Unknown	G
1758	KK		55sec					Bh		F	pant bark				U U	G

Copulation

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

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AP: Adult play; **CP**: Copulation; **CY**: Carry; **DR**: Drink; **ELE**: Elephants; **FBK**: Food Bark; **HCG**: Hand-clasp groom; **HNY**: Honey
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PAT: Patrol (Non-conflict hair erection? Sniff? Bipedal? Scan? Reassurance touch? Close single file?)