DAY 29th MONTH DEC YEAR '09 OBS-PC Fm FOC-OBS KJ OTHERS AG Fc JR HOW FOUND N

| | ST | TU | BB | YB | AJ | MS | LK | KK | PG | ES | PB | YJ | BL | BU | BO | MU | MX | MN | OU | OT | OG | OM | OL | TG | TT | YS | YD | UM | UN | AL | AT | AZ | AN | LR | LO | WA | WE | WL | WC | QT | QV | RD | ML | NP | EU | GRID | MNK | SP | PT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Estrus | | | | | | | | | | | | | | | | | | | 1 | 2 | | | | 1 | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| 5:45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6:00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6:30 | X | | | | X | | X | | X | | | | | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | P/27 | None | — | — |
| 6:45 | X | | | | X | | X | | X | | | | | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | " | | — | — |
| 7:00 | X | | | | X | | X | | X | | | | | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | " | | — | — |
| 7:15 | X | | | | X | | X | | X | | | | | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | P/27 | | COA | RF |
| 7:30 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | Q/27 | | — | — |
| 7:45 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | " | | CAF | YL |
| 8:00 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | " | | — | — |
| 8:15 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | Q/27 | | PSD | RF |
| 8:30 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | Q/28 | | COA | ↓ |
| 8:45 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | ↓ | | " | |
| 9:00 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | | | " | ↓ |
| 9:15 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | | | COA | RF |
| 9:30 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | | | THV | THV |
| 9:45 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | ↓ | | " | " |
| 10:00 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | Q/28 | | — | — |
| 10:15 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | Q/29 | | SEV | RF |
| 10:30 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | ↓ | | ↓ | ↓ |
| 10:45 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | | | | |
| 11:00 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | | | | |
| 11:15 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | | | | |
| 11:30 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | | | | |
| 11:45 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | | | | |
| 12:00 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | | | | |
| 12:15 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | | | | |
| 12:30 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | ↓ | | ↓ | ↓ |
| 12:45 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | Q/29 | None | SEV | RF |
| | ST | TU | BB | YB | AJ | MS | LK | KK | PG | ES | PB | YJ | BL | BU | BO | MU | MX | MN | OU | OT | OG | OM | OL | TG | TT | YS | YD | UM | UN | AL | AT | AZ | AN | LR | LO | WA | WE | WL | WC | QT | QV | RD | ML | NP | EU | GRID | MNK | SP | PT |
| 13:00 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | Q/29 | None | SEV | RF |
| 13:15 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | | | — | — |
| 13:30 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | | | — | — |
| 13:45 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | | | ~ | ~ |
| 14:00 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | | | SEV | RF |
| 14:15 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | | | | |
| 14:30 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | | | | |
| 14:45 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | | | | |
| 15:00 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | ↓ | | | |
| 15:15 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | Q/29 | | ↓ | ↓ |
| 15:30 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | P/29 | | SEV | RF |
| 15:45 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | | | THV | THV |
| 16:00 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | | | | |
| 16:15 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | | | | |
| 16:30 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | | | | |
| 16:45 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | | | | |
| 17:00 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | | | | |
| 17:15 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | | | | |
| 17:30 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | | | | |
| 17:45 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | | | | |
| 18:00 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | | | | |
| 18:15 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | ↓ | | ↓ | ↓ |
| 18:30 | X | | | | X | | X | | X | | | | X | | | | | | X | | X | | | X | | | | | | X | | | X | | | | X | | | | | | X | | P/29 | None | THV | THV |
| 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 | YJ | BL | BU | BO | MU | MX | MN | OU | OT | OG | OM | OL | TG | TT | YS | YD | UM | UN | AL | AT | AZ | AN | LR | LO | WA | WE | WL | WC | QT | QV | RD | ML | NP | EU | GRID | MNK | SP | PT |
| Health | 1 | | | | 1 | | 1 | | 1 | | | | 1 | | | | | | 1 | 5 | 1 | | | 1 | | | | | | 1 | | | | 1 | | | | | | | | 1 | | | 2 | 1 | | | | | |

COMMENTS 5=other, OT had a swollen right eye. NP 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

WL (1) LR (1) TS (1) QT (1) AL (1) OU (1) OT (2)

# KPC Behavior

Day 29th Month DEC Year 2009 KPC Fm Others AG JR Found N

| Time | Party Composition AMM | AFF (Include estrous) | JMM (Juveniles and Infants) | JFF | Loc | F | SP | PT | MNK | BEH |
|---|---|---|---|---|---|---|---|---|---|---|
| 627 | Obs arrived at the nest site. | | | | | | | | | |
| 630 | TUES LKKK STAJ | T9OU WLLR OTAL QT | TT09 WCQN ATAZ | OMOL AMNPEU TDTS | 400/OLT | | | | | |
| 645 | TUES LKKK STAJ | QT T9OU WLLR OTAL | TT09 WCQN ATAZ | OMOL AMNPEU TDTS | " | | | | | |
| 655 | Someone pant barked and TU KK left their nests pant hooting as the others waarbarked. | | | | | | | | | |
| 700 | TUES LKKK STAJ | T9OU WLLR OTAL QT | TT09 WCQN ATAZ | OMOL AMNP TDTS EU | 400/OLT | | | | | |
| 701 | KK LK AJ, one by one inspected LR by touching and smelling on the Estrous. | | | | | | | | | |
| 702 | KK made vocal displays chasing some ids who fled screaming. | | | | | | | | | |
| 703 | Some one chased LR who fled screaming. | | | | | | | | | |
| 705 | ST inspected LR by touching and smelling on the Estrous. | | | | | | | | | |
| 708 | LK made non vocal displays and attack one to AJ by kicking and he 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 | Context | Height T or G |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 708 | LK | | 5secs | | ✓ | | | | | F | ✓ | | | | Unknown | 9 |
| | | | | | | | | | | | | | | | | |
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**Copulation**

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

BK (1) BY (1)

# KPC Behavior

Day 28th Month DEC Year 2009 KPC Fm Others KJ FCAG JR Found M

| Time | Party Composition AMM | AFF (Include estrous) | JMM (Juveniles and Infants) | JFF | Loc | F | SP | PT | MNK | BEH |
|---|---|---|---|---|---|---|---|---|---|---|
| | Then KK made non vocal displays and | | | | | | | | | |
| | buttress bungs, and AJ ran after him | | | | | | | | | |
| 710 | Some juvs made vocal displays and buttress | | | | | | | | | |
| | bungs, and others fled screaming and | | | | | | | | | |
| 715 | TUES LKKL STAS | T9OY WLLR OTAL OT | TTO9 WCBY AIAZ | OMOL ANNPEM TDTS | C/400 | ✓ | COA | RF | | |
| 723 | The party joined BK BO BY MS and some males | | | | | | | | | |
| | made vocal displays and others fled screaming. | | | | | | | | | |
| 725 | KK made non vocal displays chasing BK | | | | | | | | | |
| | who fled screaming into the tree. | | | | | | | | | |
| 730 | TUES LKKL STAJ MS | T9 BLOY AL WLLR OT BY OT | BOAZ AT WCBY O9TT | OMOL ANNP EM TDTS | C/600 | | | | | |
| 745 | TUES LKKL STAS MS | T9OY BLOY OTAL WLLR BURT | BOAZ ATTTO9 WCBY | OMOL ANMPEM TDTS | 4 | ✓ | CAF | YR | | |
| 758 | TY made attack one to BK by kicking and | | | | | | | | | |
| | slapping, and she ran into the tree screaming. | | | | | | | | | |
| 800 | TY made non vocal displays chasing O9 | | | | | | | | | |
| | who fled screaming and others wear barked. | | | | | | | | | |

**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 725 | KK | | 10secs | 5secs | | | | BK | | F | ✓ | | | | Reunion | 9 T |
| 758 | TY | | | 3secs ✓ | | | | BK | | F | ✓ | | | | Unknown | 9 T |
| 800 | TY | | 16secs | 3Secs | | | | O9 | | F | ✓ | | | | Unknown | 9 T |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

**Copulation**

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

724 KK made non vocal displays chasing MS who fled screaming into the tree. (5Secs, Reunion).

# KPC Behavior

Day 29th Month DEC Year 2009 KPC FM Others KJ FCAG JR Found N

| Time | Party Composition: AMM | AFF (Include estrous) | JMM (Juveniles and Infants) | JFF | Loc | F | SP | PT | MNK | BEH |
|---|---|---|---|---|---|---|---|---|---|---|
| 800 | TUES LKKU STAJ MS | TG BLOU OTAL WLLQ BUBT | BOAZ ATOGTT WCBV | OMOL ANNPEV TDTS | C/600 | | | | | |
| 801 | OT inspected BU by something on the Estrous. | | | | | | | | | |
| 807 | TU made non vocal displays chasing and made | | | | | | | | | |
| | attack one to OU by slapping and she ran | | | | | | | | | |
| | into the tree screaming. | | | | | | | | | |
| 815 | TUES LKKU STAJ MS | TG BLOU OTAL WLLQ BUBT | BOAZ TIATOG WCBV | OMOL ANNPEV TDTS | B/800 | ✓ | PSD | RF | | |
| 828 | chimps climbed into COA and MDR at 1200/OLT | | | | | | | | | |
| | but some others stayed on ground. | | | | | | | | | |
| 830 | TUES LKKU STAJ MS | TG BLOU OTAL WLLQ BUBT | BOAZ TIATOG WCBV | OMOL ANNPEV TDTS | 1200/OLT | ✓ | COA MDR | RF | | |
| 833 | ES made non vocal displays and buttress | | | | | | | | | |
| | bungs, and others were barked. | | | | | | | | | |
| 834 | KK made non vocal displays and buttress | | | | | | | | | |
| | bungs and LR pant barked. | | | | | | | | | |
| 845 | TUES LKKU STAJ MS | TG BLOU OTAL WLLQ BUBT | BOAZ TIATOG WCBV | OMOL ANNPEV TDTS | 1200/OLT | ✓ | COA MDR | RF | | |
| 900 | TUES LKKU STAJ MS | TG BLOU OTAL WLLQ BUBT | BOAZ TIATOG WCBV | OMOL ANNPEV TDTS | 〃 | ✓ | 〃 | 〃 | | |

**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 807 | TU | | 7secs | 3secs | ✓ | | | OU | | F | ✓ | | | | Unknown | G/T |
| 833 | ES | | 36secs | | | | | None | | | | | | | Social excitement | G |
| 834 | KK | | 8secs | | | | | None | | | | | | | 〃 〃 | T/G |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

**Copulation**

| Time | Duratio | Fem | Male | Interfere? | Groom? | Scream? | Dart | Who approached? | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
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At 15-MINUTE INTERVALS: Party composition, Location, Food, MNK Estrous: 1=None, 2=Partial, 3=Full

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# KPC Behavior

Day 29th Month DEC Year 2009 KPC Fm Others KJ FCJRAG Found N

| Time | Party Composition AMM | AFF (Include estrous) | JMM (Juveniles and Infants) | JFF | Loc | F | SP | PT | MNK | BEH |
|---|---|---|---|---|---|---|---|---|---|---|
| 915 | TUES LKKK STAJ MS | TG BLOU OTAL WLLR BUQT | BOAZ TTATOG WCQV | OMOL ANMPEU TDTS | 1200 /OLT | ✓ | COA | RF | | |
| 923 | Some one made non vocal displays and Chased | | | | | | | | | |
| | Others who fled screaming. MS also casually | | | | | | | | | |
| | and silently avoided. | | | | | | | | | |
| 930 | TUES LKKK STAJ MS | TG BLOU OTAL WLLR BUQT | BOAZ TTATOG WCQV | OMOL ANMPEU TDTS | 1200 /OLT | ✓ | THV | THV | | |
| 944 | MS inspected LR by touching and smelling | | | | | | | | | |
| | on the Estrous. | | | | | | | | | |
| 945 | TUES LKKK STAJ MS | TG BLOU OTAL WLLR BUQT | BOAZ TTATOG WCQV | OMOL ANMPEU TDTS | 1200 /OLT | ✓ | THV | THV | | |
| 953 | Chimps started moving and WL QT Families | | | | | | | | | |
| | stayed behind. | | | | | | | | | |
| 955 | Some lots made vocal displays and others | | | | | | | | | |
| | fled pantbarking. | | | | | | | | | |
| 1000 | TUES MS STAJ LKKK | OUAL OTBLLR BUTG | BOAZ ATOG TT | OMOL ANMPEU TDTS | 1200 /OLT logged area. | | | | | |
| 1006 | MP was heard coughing. | | | | | | | | | |
| 1009 | AT made an arm threat to AZ who screamed but didnt avoid. | | | | | | | | | |

**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 |
| | | | | | | | | | | | | | | | | |
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**Copulation**

| Time | Duratio | Fem | Male | Interfere? | Groom? | Scream? | Dart | Who approached? | Notes |
|---|---|---|---|---|---|---|---|---|---|
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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 29th Month DEC Year 2009 KPC Fm Others KJJR FLAG Found N

| Time | Party Composition AMM | AFF (Include estrous) | JMM (Juveniles and Infants) | JFF | Loc | F | SP | PT | MNK | BEH |
|---|---|---|---|---|---|---|---|---|---|---|
| 1015 | TUES LUKK MSSTAJ | OTAL OU BL LR BU TG | ATOG BOAZ TT | TS OMOL ANNPTD EU | NFP /1200 | ✓ | SEV THV | RF THV | | |
| 1021 | KK made non vocal displays and attack one | | | | | | | | | |
| | to OT by kicking and she fled screaming. OU | | | | | | | | | |
| | also ran into the tree pant barking as LK made | | | | | | | | | |
| | non vocal displays. | | | | | | | | | |
| 1022 | LK made non vocal displays, chased and made | | | | | | | | | |
| | attack one to AT by kicking and he fled screaming. | | | | | | | | | |
| | KK also made non vocal displays but no | | | | | | | | | |
| | one responded. | | | | | | | | | |
| 1030 | TUES LUKK MSST AJ | BL LR OTAL BU OU TG | ATOG BOAZ TT | TD OMOL ANNPOTS EU | NFP /1200 | ✓ | SEV THV | RF THV | | |
| 1045 | TUES LUKK MSST AJ | BL LR OTAL TG OU BU | TTOG BOAZ AT | OMOL TDTS ANNP EU | 〃 | ✓ | 〃 | 〃 | | |
| 1100 | TUES LUKK MSST AJ | BL LR OTAL TG OU BU | TTOG BOAZ AT | OMOL TDTS ANNP EU | 〃 | ✓ | 〃 | 〃 | | |
| 1114 | There was a fight in poor view and TG EU | | | | | | | | | |
| | made war barks. | | | | | | | | | |
| 1115 | TUES LUKK MSST AJ | BL LR OTAL TG OU BU | TTOG BOAZ AT | OMOL TDTS ANNP EU | NFP /1200 | ✓ | SEV THV | RF 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 | Response of Victim No | Av | Submission | Tn | Rt | RA | Context | Height T or G |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1021 | KK | | 30secs | | ✓ | | | OT | | F | ✓ | | | | Unknown | 9 |
| 1022 | LK | | 40secs 8secs | | ✓ | | | AT | | F | ✓ | | | | Unknown | 9 |
| 1022 | KK | | 13secs | | | | | None | | | | | | | Unknown | 9 |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

**Copulation**

| Time | Duratio | Fem | Male | Interfere? | Groom? | Scream? | Dart | Who approached? | Notes |
|---|---|---|---|---|---|---|---|---|---|
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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 29th Month 2009 Year 2009 KPC Fm Others KJ JR FCAG Found M

| Time | Party Composition AMM | AFF (Include estrous) | JMM (Juveniles and Infants) | JFF | Loc | F | SP | PT | MNK | BEH |
|---|---|---|---|---|---|---|---|---|---|---|
| 1116 | ES made non vocal displays but no one responded. | | | | | | | | | |
| 1130 | TUES LKKK MSST AJ | BLLR OTAL TGOU BU | BOAZ TTOG AT | OMOL TDTS ANNP EU | NFP /1200 | ✓ | THN SEV | THN RF | | |
| 1136 | Some I'DS made food barks as they fed on SEV. | | | | | | | | | FBK |
| 1141 | KK LK made joint vocal displays and LK | | | | | | | | | |
| | made attack one by kicking to TU who screamed | | | | | | | | | |
| | and waarbarked but didn't avoid. AJ also | | | | | | | | | |
| | made waarbarks. | | | | | | | | | |
| 1144 | LK KK made joint vocal displays and MS TU | | | | | | | | | |
| | casually avoided waarbarking. | | | | | | | | | |
| 1145 | TUES LKKK MSST AJ | BLLR OTAL TGOU BU | BOAZ TTOG AT | OMOL TDTS NP ANEU | NFP /1200 | ✓ | SEV | RF | | |
| 1153 | Hand clasp mutual groom ST ⇆ TU | | | | | | | | | HCG |
| 1154 | TU grooming ST. | | | | | | | | | |
| 1155 | Hand clasp mutual groom ST ⇆ TU | | | | | | | | | HCG |
| 1156 | TU grooming ST. | | | | | | | | | |
| 1156 | LR feeding on CLN ripe fruits. | | | | | | | | | |

**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1116 | ES | | 4secs | | | | | None | | | | | | | Unknown | G |
| 1141 | LK | 10secs | | | ✓ | | | TU | | No | ✓ | | | | Unknown | G |
| 1141 | KK | 10secs | | | | | | None | | | | | | | Unknown | G |
| 1144 | LKKK | 6secs | | | | | | TUMS | | C | ✓ | | | | Unknown | G |
| | | | | | | | | | | | | | | | | |

**Copulation**

| Time | Duratio | Fem | Male | Interfere? | Groom? | Scream? | Dart | Who approached? | Notes |
|---|---|---|---|---|---|---|---|---|---|
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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 29th Month Dec Year 2009 KPC Fm Others KJ FC JR AG Found N

| Time | Party Composition: AMM | AFF (Include estrous) | JMM (Juveniles and Infants) | JFF | Loc | F | SP | PT | MNK | BEH |
|---|---|---|---|---|---|---|---|---|---|---|
| 1158 | ST grooming TH. | | | | | | | | | |
| 1159 | Hand clasp mutual groom ST ⇐⇒ TH | | | | | | | | | HCG |
| 1200 | TH grooming ST. | | | | | | | | | |
| 1200 | TUES MSST LKKK AJ | BLLR OTAL TJOU BU | BOAZ TTOJ AT | OMOL TDTS ANNP EH | NFP /1200 | ✓ | SEV | RF | | |
| 1201 | ST grooming TH. | | | | | | | | | |
| 1215 | TUES MSST LKKK AJ | BLLR OTAL TJOU BU | BOAZ TTOJ AT | OMOL TDTS ANNP EH | NFP /1200 | ✓ | SEV | RF | | |
| 1230 | TUES MSST LKKK AJ | BLLR OTAL TJOU BU | ATTTOJ BOAZ | OMOL TDTS EH NPAN | 〃 | ✓ | 〃 | 〃 | | |
| 1245 | TUES MSST LKKK AJ | BLLR OTAL TJOU BU | TTOJAT BOAZ | OMOL TDTS ANNP EH | 〃 | ✓ | 〃 | 〃 | | |
| 1300 | TUES MSST LKKK AJ | BLLR OTAL TJOU BU | TTOJAT BOAZ | OMOL ANNPEH TDTS | 〃 | ✓ | SEV | RF | | |
| 1303 | TH inspected LR by touching on the ESTEROUS | | | | | | | | | |
| | and smelling on the fingers. | | | | | | | | | |
| 1305 | ES made VOCAL displays and others pantbarked. | | | | | | | | | |
| 1315 | TUES MSST LKKK AJ | BLLR OTAL TJOU BU | TTOJAT BOAZ | OMOL ANNPEH TDTS | NFP /1200 | | | | | |
| 1330 | TUES MSST LKKK AJ | BLLR OTAL TJOU BU | TTOJAT BOAZ | OMOL ANNPEH TDTS | 〃 | | | | | |
| 1345 | TUES MSST LKKK AJ | BLLR OTAL TJOU BU | TTOJAT BOAZ | OMOL ANNPEH TDTS | 〃 | | | | | |

**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1305 | ES | 6 secs | | | | | | None | | | | | | | Unknown | G |
| | | | | | | | | | | | | | | | | |
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**Copulation**

| Time | Duratio | Fem | Male | Interfere? | Groom? | Scream? | Dart | Who approached? | Notes |
|---|---|---|---|---|---|---|---|---|---|
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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 29th Month Dec Year 2009 KPC Fm Others KJ JRFCAG Found N

| Time | Party Composition: AMM | AFF (Include estrous) | JMM (Juveniles and Infants) | JFF | Loc | F | SP | PT | MNK | BEH |
|---|---|---|---|---|---|---|---|---|---|---|
| 1346 | ES building 9 day nest. | | | | | | | | | |
| 1351 | AJ grooming TU. | | | | | | | | | |
| 1353 | Chain | grooming, | AJ → TU → ST. | | | | | | | |
| 1400 | TUES LKKK MSSTAJ | BLLR OTAL TJGU BU | TTDJAT BOAZ | OMOL ANNPEU TDTS | NFP /1200 | ✓ | SEV | RF | | |
| 1405 | KK grooming ST. | | | | | | | | | |
| 1411 | AJ grooming TU. | | | | | | | | | |
| 1415 | TUES LKKK MSST AJ | BLLR OTAL TJGU BU | TTDJAT BOAZ | OMOL ANNPEU TDTS | NFP /1200 | ✓ | SEV | RF | | |
| 1423 | AJ grooming KK. | | | | | | | | | |
| 1425 | It started raining and Chimps did nothing. | | | | | | | | | RN |
| 1430 | TUES LKKK MSST AJ | BLLR OTAL TJGU BU | TTDJAT BOAZ | OMOL ANNPEU TDTS | NFP /1200 | ✓ | SEV | RF | | |
| 1432 | Some IDs made Vocal displays and others | | | | | | | | | |
| | fled screaming. | | | | | | | | | |
| 1436 | TU KK KK eating red soil from the | | | | | | | | | Soil |
| | roots of a fallen tree. | | | | | | | | | |
| 1445 | TUES LKKK MSST AJ | BLLR OTAL TJGU BU | TTDJAT BOAZ | OMOL ANNPEU TDTS | KARUKONDA NFP | ✓ | SEV | RF | | |

**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 |
| | | | | | | | | | | | | | | | | |
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**Copulation**

| Time | Duratio | Fem | Male | Interfere? | Groom? | Scream? | Dart | Who approached? | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
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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 29th Month DEC Year 2009 KPC Fm Others KJ JR FEAG Found N

| Time | Party Composition: AMM | AFF (Include estrous) | JMM (Juveniles and Infants) | JFF | Loc | F | SP | PT | MNK | BEH |
|---|---|---|---|---|---|---|---|---|---|---|
| 1454 | AL AZ OM Om eating red soil from the roots | | | | | | | | | |
| | of a fallen tree. | | | | | | | | | |
| 1500 | TUES LUKK MSST AJ | OTAL BLLR TJOU BU | ATDG TT BOAZ | OMOL ANNPEU TDTS | karukonda NFP | ✓ | THV SEV | THV RF | | |
| 1515 | TUES LUKK MSST AJ | OTAL BLLR TJOU BU | ATDG BOAZ TT | OMOL ANNPEU TDTS | 〃 | ✓ | 〃 | 〃 | | |
| 1529 | ST inspected LR by smelling on the Estrous. | | | | | | | | | |
| 1530 | TUES LUKK MSST AJ | OTAL BLLR TJOU BU | ATDG BOAZ TT | OMOL ANNPEU TDTS | karukonda off Trail | ✓ | SEV THV | RF THV | | |
| 1535 | someone was attacked in dense Vegetation | | | | | | | | | |
| | and fled screaming. | | | | | | | | | |
| 1545 | TUES LUKK MSST AJ | OTAL BLLR TJOU BU | ATDG BOAZ TT | OMOL ANNPEU TDTS | karukonda off Trail | ✓ | THV | THV | | |
| 1600 | TUES LUKK MSST AJ | OTAL BLLR TJOU BU | ATDG BOAZ TT | OMOL ANNPEU TDTS | 〃 | ✓ | 〃 | 〃 | | |
| 1603 | It Stopped raining. | | | | | | | | | |
| 1615 | TUES LUKK MSST AJ | OTAL BLLR TJOU BU | ATDG BOAZ TT | OMOL ANNPEU TDTS | karukonda off Trail | ✓ | THV | THV | | |
| 1630 | TUES LUKK MSST AJ | OTAL BLLR TJOU BU | ATDG BOAZ TT | OMOL ANNPEU TDTS | 〃 | ✓ | 〃 | 〃 | | |
| 1633 | LR was resting and he picked a leaf which he TLU | | | | | | | | | |
| | groomed for 17 secs then groomed AJ. | | | | | | | | | |

**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 |
| | | | | | | | | | | | | | | | | |
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**Copulation**

| Time | Duratio | Fem | Male | Interfere? | Groom? | Scream? | Dart | Who approached? | Notes |
|---|---|---|---|---|---|---|---|---|---|
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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 29 Month DEC Year 2009 KPC Fm Others KJ JR FLAG Found M

| Time | Party Composition: AMM | AFF (Include estrous) | JMM (Juveniles and Infants) | JFF | Loc | F | SP | PT | MNK | BEH |
|---|---|---|---|---|---|---|---|---|---|---|
| 1645 | TUES LKKK MSST AJ | OTAL BLLR TGOU BU | ATOG BOAZ TT | OMOL ANNPEU TDTS | Kanukonda OT Trail | ✓ | THV | THV | | |
| 1651 | OU grooming OT. | | | | | | | | | |
| 1652 | OT has a swollen right eye. (lower lid). | | | | | | | | | |
| 1653 | Hand clasp mutual groom, OU ↔ OT | | | | | | | | | Hcg |
| 1656 | Some obs made nest grunts. | | | | | | | | | |
| 1700 | TUES LKKK MSST AJ | OTAL BLLR TGOU BU | ATOG BOAZ TT | OMOL ANNPEU TDTS | KRD OT Trail | ✓ | THV | THV | | |
| 1705 | ST building a night nest, 13 m high, DBH | | | | | | | | | |
| | 52 cm (E) sp. Albizzia. | | | | | | | | | |
| 1713 | TU building a night nest, 15m high, DBH ? sp. CAF. | | | | | | | | | |
| 1715 | TUES LKKK MSST AJ | OTAL BLLR TGOU BU | ATOG BOAZ TT | OMOL ANNPEU TDTS | KRD OT Trail | ✓ | THV | THV | | |
| 1730 | TUES LKKK MSST AJ | OTAL BLLR TGOU BU | ATOG BOAZ TT | OMOL ANNPEU TDTS | 〃 | ✓ | 〃 | 〃 | | |
| 1745 | TUES LKKK MSST AJ | OTAL BLLR TGOU BU | ATOG BOAZ TT | OMOL ANNPEU TDTS | 〃 | ✓ | 〃 | 〃 | | |
| 1800 | TUES LKKK MSST AJ | OTAL BLLR TGOU BU | ATOG BOAZ TT | OMOL ANNPEU TDTS | 〃 | ✓ | 〃 | 〃 | | |
| 1815 | TUES LKKK MSST AJ | OTAL BLLR TGOU BU | ATOG BOAZ TT | OMOL ANNPEU TDTS | 〃 | ✓ | 〃 | 〃 | | |
| 1830 | TUES LKKK MSST AJ | OTAL BLLR TGOU BU | ATOG BOAZ TT | OMOL ANNPEU TDTS | KRD OT Trail | ✓ | 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 | Response of Victim: No | Av | Submission | Tn | Rt | RA | Context | Height T or G |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | |
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**Copulation**

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

1840 Obs leaving the nest site. Other chimps have not yet nested and the place is far.