**1. Abiotic & General Data Variables**

|  |  |  |
| --- | --- | --- |
| **Variable** | **Categories** | **Details** |
| Date |  | Date of the day. Important: the date of one night stays the same after 0:00! |
| Starting time |  | First contact with animal minus 5 minutes |
| End time |  | Leaving the animal. Please note down time when leave and find new animal if you swap animal during the night. |
| Observer |  | Researcher, volunteer (person collecting data) |
| Assistant |  | Tracker |
| Others |  | Other people |
| Observation type | Normal observation | Per individual, to be added when inserting data |
| Capture |
| First sighting |
| Transect |
| Loris |  | Name of loris |
| Rain | No | If it starts raining during observation please continue observing as long as possible (as otherwise it creates bias); if you seek shelter, wait at least 1-2 hours if the rain stops before you decide to go home |
| Little: Drizzle |
| Medium: continuous |
| Strong: getting wet quickly |
| Rain last 24 hours | See rain |  |
| Wind | No |  |
| Little: Leaves are moving clearly |
| Medium: branches are moving |
| Strong: Small trees are bending |
| Cloud |  | 10 % steps of cloud cover, may later be converted into broader categories |
| Fog | No | And in meters until fog is visible, may later be converted into broader categories |
| Little: >15 m |
| Medium: 5-15 m |
| Strong: < 5m |
| Moon |  | 10 % steps, later more precise using the moon phase |

**2. Ethograms**

**Behaviour**

|  |  |  |
| --- | --- | --- |
|  | **Behaviour** | **Definition** |
| 1 | Alert | Remain stationary like in “rest” but active observation of environment or observer |
| 2 | Feed | Actual consumption of a food item |
| 3 | Forage | Movement associated with looking for food (often includes visual and olfactory searching) or any other stimulus (scent marking etc.) |
| 4 | Freeze | Interrupt locomotion to maintain motionless, rigid posture in standing or sitting  position for at least three seconds, extremely slow movement not associated with foraging |
| 5 | Groom | Autogroom, lick or use tooth comb on own fur |
| 6 | Rest | Remain stationary, often with body hunched, eyes open |
| 7 | Sleep | Remein stationary, head between the knees, eyes closed |
| 8 | Social | All interactions with conspecifics, including aggression, allogroom, play and other social behaviours |
| 9 | Aggression | Fight, bite including attempts, threat, chasing; often accompanied agonistic vocalisations |
| 10 | Allogroom | Lick or comb with toothcomb other loris’ face or fur - usually while clasping him or her |
| 11 | Play | Behaviours serving no immediate, definable purpose, including friendly attempted bite or manual attack and clasping, dangle by feet, wriggle body with arms over  head. No vocalisations as when fighting. |
| 12 | Other social | Social activity while being in contact or close proximity (<5 m), like mating, social follow, sniffing, social explore |
| 13 | Travel | Continuous, directed movement from one location to another |
| 14 | Out of Sight | Behaviour cannot be seen (eyes may be seen) |
| 15 | Other | Other behavior not included above |

1. **Posture/Locomotion**

| **Posture/Locomotion** | **Definition** |
| --- | --- |
| **Posture** |  |
| 1. **Sit** | Remain stationary with body hunched and head erect |
| 1. **Stand** | Remain stationary in upright position using all four limbs |
| 1. **Suspension 1** | Hanging from one foot (rare but can occur when playing) |
| 1. **Suspension 2** | Hanging from two feet |
| 1. **Suspension 3** | Hanging from three feet |
| 1. **Suspension 4** | Hanging from four feet |
| 1. **Vertical suspension 2** | Hanging towards the side of a support, with 2 feet (e.g. when exploring/observing) |
| 1. **Vertical suspension 3, up or down (2 different categories)** | Hanging towards the side of a support, with 3 feet, either facing upwards or downwards |
| 1. **Vertical suspension 4, up or down (2 different categories)** | Hanging towards the side of a support, with 4 feet, either facing upwards or downwards |
| 1. **"Schlafkugel" (sleeping ball)** | Remain stationary with body hunched and head erect, head between the knees |
| **Locomotion** |  |
| 1. **Walk** | Quadrupedal walking on support |
| 1. **Suspensory Walk** | Locomoting while hanging from 0 degree or +/- 45 degree support |
| 1. **Climb Up** | Moving upwards on support |
| 1. **Climb Down** | Moving downwards on support |
| 1. **Bridge** | Climbing from one support to the next, stretching over a gap of more than 15 cm |
| 1. **Climb Horizontally** | Moving horizontally through +/- 90 or +/- 45 degree support |

| **Posture/Locomotion** |  |
| --- | --- |
| **Posture** |  |
| 1. **Sit** |  |
| 1. **Stand** |  |
| 1. **Suspension 1** |  |
| 1. **Suspension 2** |  |
| 1. **Suspension 3** |  |
| 1. **Suspension 4** |  |
| 1. **Vertical Suspension 2** |  |
| 1. **Vertical Suspension 3,**   **up or down**  **(2 different categories)** | Like vertical suspension 4 (see below), just with 3 limbs attached |
| 1. **Vertical suspension 4, up or down (2 different categories)** |  |
| 1. **"Schlafkugel" (sleeping ball)** |  |
| **Locomotion** |  |
| 1. **Walk** |  |
| 1. **Suspensory Walk** |  |
| 1. **Climb Up** |  |
| 1. **Climb Down** |  |
| 1. **Bridge** |  |
| 1. **Climb Horizontally** |  |

1. **Position**

|  |  |  |
| --- | --- | --- |
| **Number** | **Category** | **Definition** |
| 0 | Periphery | Leaves and terminal branches |
| 1 | Central | Inner part of the canopy (inner ¾ of tree crown radius) |
| 2 | Crown | Periphery on top of the tree, < 2 m from top |
| 3 | Trunk | On or near the trunk (<1m) |
| 4 | Undergrowth | In bushes and grass lad of < 3m |
| 5 | Terrestrial | On the ground |
| 6 | Water line | On water pipes or pipe support leading over the fields |
| 7 | Labu | Using labu or labu support structures (typically bamboo) |
| 8 | Other |  |
|  | **Picture** |  |
|  | Trunk |  |
|  | Central |
|  | Crown |
|  | Periphery |
|  | Undergrowth |
|  | Terrestrial |
|  | Open branch |
|  | Water line |

1. **Substrate Type**

|  |  |
| --- | --- |
| **Category** | **Number** |
| Trunk | 1 |
| Bamboo Trunk | 2 |
| Branch | 3 |
| Terrestrial | 4 |
| Water Line | 5 |
| Banana | 6 |

1. **Support size**

|  |  |  |
| --- | --- | --- |
| **Number** | **Category** | **Definition** |
| 1 | Small | Loris can fully grip the branch, <2 cm diameter  (average hand span is 5.8 cm) |
| 2 | Medium | Hand of the loris can curve around the branch, 2<x<10 cm diameter (hand can span between 1/4 and 1/5 of the support diameter) |
| 3 | large | Hand is flat on the branch/trunk, > 10 cm diameter |

|  |  |
| --- | --- |
| **Category** |  |
| Small |  |
| Medium |  |
| large |  |

1. **Support angle**

|  |  |
| --- | --- |
| **Category** |  |
| 0 |  |
| +45 |  |
| -45 |  |
| +90 |  |
| -90 |  |