

## Data Documentation

Available data:

- "FCM Stress - Collared Deer - CRS=ETRS UTM 33N.csv": is the table with all the measured Faecal Cortisol Metabolites values (i.e. stress levels) from the faeces sampled from the GPS-monitored red deer.
- "Movement - CRS=ETRS UTM 33N.csv": is the dataset with all GPS locations for each red deer while wearing the GPS-collars. Most are 1-hour intervals (i.e., every one hour the red deer location was recorded), some are 15-minutes intervals.
- "Hunt Events - CRS=ETRS UTM 33N.csv": is the list of hunting events recorded between 2020 and 2022. Unfortunately, some do not have the time of the day recorded. We might discuss with the students how to handle this.

### **Stress values:**

- Sample\_ID: ID of the sample
- ng\_g: FCM values measured by the lab (= stress level, the variable of interest).
- Comment: comments from the labs or the people recolting the sample
- Sender.ID: ID number of the collar - this information is the one to use to link FCM stress values and the movement data (i.e., "name" column in movement data below).
- HairID: ID of the hair taken from each collared individual (it was used for the genetic analyses). Normally, each deer has only one collar, but one deer had two collars (i.e., same HairID with two different Sender.ID).
- Collar\_day & Collar\_time: when the red deer was at that place (date and time). This information is the "defecation" time, whereas the Waypoint information afterwards is the "sampling" time. This is this timestamp which has to be related to the movement data, not the waypoint timestamp.
- Waypoint.number: for a part uncomplete, just an ID of the waypoint for us in case a point seems wrong.
- Waypoint\_day & Waypoint\_time: when the sample was collected (date and time). I let it in the dataset because it could be used to assess an effect of time before sampling on FCM values (i.e., by comparing the defecation time and this sampling time).
- Waypoint\_X & Waypoint\_Y: where the sample was collected (longitude and latitude in ETRS UTM 33N).

### **hunting events:**

- Datum: date of the hunt
- Zeit: hour of the hunt
- X: longitude (ETRS UTM 33N)
- Y: latitude (ETRS UTM 33N)

### **movement.csv:**

- name: number ID of the collar (i.e., the "Sender.ID" column in the stress dataset).
- x\_: longitude of the red deer GPS location (ETRS UTM 33N).
- y\_: latitude of the red deer GPS location (ETRS UTM 33N).
- t\_: date and time of the red deer GPS location.

