Table S1. Dates of soil moisture sensors or temperature loggers malfunction. X: temporal failure, !: sensor/logger excluded from the data analysis due to impossibility to extract data from logger or loss of the logger during the study, N/A= not applicable (only one soil moisture sensor per site was established). Dates are day/month/year.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Measurement** | **Position of logger** | **Cha1** | **Cha2** | **Date(s)** | **Con1** | **Con2** | **Date(s)** | **Data management** |
| **Site 1** |
| Temperature  | + 10 cm |  | ! |  |  | x | 01/10/21 to 21/12/21 | Records from Con2 excluded during malfunction dates. Records from Cha2 excluded from analysis |
| 0 cm |  | x | 16/11/21 to 21/12/21 |  | x | 21/21/20 to 21/05/21 & 16/11/21 to 21/12/21 | Records from Cha2 and Con2 excluded during malfunction dates |
| -5 cm | x |  | 16/11/21 to 21/12/21 | x | ! | 16/11/21 to 21/12/21 | Records from Cha1 and Con1 excluded during malfunction dates and records from Con2 logger excluded from the analysis  |
| -10 cm | x | ! | 21/05/21 to 21/12/21 | ! | x | 16/11/21 to 21/12/21 | Records from Cha1 and Con2 excluded during malfunction dates. Records from Cha2 and Con1 excluded from the analysis.  |
| Soilmoisture  | -5 cm |  | N/A |  |  | N/A |  |  |
| **Site 2** |
| Temperature  | + 10 cm |  | x | 16/11/21 to 21/12/21 |  | ! |  | Records from Cha2 excluded during malfunction dates. Records from Con2 excluded from the analysis. |
| 0 cm | ! | ! |  |  | x | 16/11/21 to 21/12/21 | Records from Con2 excluded during malfunction dates. Records from Chambers of site 2, were excluded from the analysis. |
| -5 cm | ! |  |  |  | x | 16/11/21 to 21/12/21 | Records from Cha1 excluded from the analysis. Records from Con2 excluded during malfunction dates. |
| -10 cm | x | ! | 21/05/21 to 21/12/21 | x | ! | 16/11/21 to 21/12/21 | Records from Cha1 and Con1 excluded during malfunction dates. Records from Con2 and Cha2 excluded from the analysis. |
| Soilmoisture  | -5 cm |  | N/A |  |  | N/A |  |  |
| **Site 3** |
| Temperature  | + 10 cm |  | x | 16/11/21 to 21/12/21 |  | x | 16/11/21 to 21/12/21 | Records from Cha2 and Con2 excluded during malfunction dates.  |
| 0 cm |  | x | 16/11/21 to 21/12 |  | x | 16/11/21 to 21/12 | Records from Cha2 and Con2 excluded during malfunction dates. |
| -5 cm |  | x | 16/11/21 to 21/12 | ! |  |  | Records from Cha2 excluded during malfunction dates. Records from and Con1 excluded from the analysis. |
| -10 cm | x | ! | 21/05/21 to 21/12/21 | x | ! | 20/06/21 to 21/12/21 | Records from Con1 and Cha1 excluded during malfunction dates. Records from Cha2 and Con2 and excluded from the analysis. |
| Soilmoisture  | -5 cm | x | N/A |  | x | N/A | 30/11/21 to 21/12/21 | Records from site 3 excluded from the analysis during malfunction dates  |