

Table SM1. Localization, and clay, silt, and sand content of the soils

| Properties | Localization | Clay (g kg ⁻¹) | Silt (g kg ⁻¹) | Sand (g kg ⁻¹) |
|------------|----------------|-------------------------------|-------------------------------|-------------------------------|
| S1 | 38°54'N–6°54'W | 239 | 324 | 437 |
| S2 | 38°54'N–6°53'W | 142 | 323 | 335 |
| S3 | 38°48'N–7°06'W | 422 | 144 | 434 |
| S4 | 38°53'N–6°59'W | 297 | 211 | 492 |

Table SM2. Bulk densities of the soil columns

| Properties | Bulk density (kg L ⁻¹) |
|------------|--|
| S1 | 1.55 |
| S1DW2.5 | 1.47 |
| S1DW5 | 1.37 |
| S2 | 1.58 |
| S2DW2.5 | 1.52 |
| S2DW5 | 1.42 |
| S3 | 1.37 |
| S3DW2.5 | 1.33 |
| S3DW5 | 1.22 |
| S4 | 1.44 |
| S4DW2.5 | 1.37 |
| S4DW5 | 1.30 |
| S4DW10 | 1.16 |
| S4ADW5 | 1.05 |
| S4ADW10 | 1.02 |