Metadata 1A

Obligatory fields are indicated with an asterisk

|  |  |
| --- | --- |
| **Code** | 1A |
| **Title \*** | 1A Soil organic carbon stock Cajamarca all |
| **Acronym** | SOCSCA |
| **Path** | Data archive\MS1 |
| **Description \*** | It is the dataset of soil organic carbon stocks, soil physicochemical properties and soil formation & environmental factors. Soil samples were collected from 69 sampling plots, and the data includes soil properties of the entire soil profile and the top 10 cm soils. |
| **Creator \*** | Songyu Yang |
| **Publisher** |  |
| **Contributor** | Michael den Haan, Erik Cammeraat |
| **Type** | Tabular data |
| **Format \*** | csv and sav |
| **OS** |  |
| **Software** | Excel and SPSS |
| **Identifier** |  |
| **Source** |  |
| **Rights \*** | IBED, University of Amsterdam |
| **Language** | English |
| **SpatialCoverage** | Coordinate: 7° 08’ – 7° 14’ S, 78° 34’ – 78° 38’ W, altitudes: 3370 – 3900 m |
| **ProjectionSystem \*** | *Not available* |
| **TemporalCoverage \*** | Period 1: 2010-06-25 to 2010-07-20, period 2: 2015-07-02 to 2015-07-03 |
| **Keywords \*** | Soil organic carbon stocks, soil formation and environmental factors |
| **SizeMB \*** | 14KB for the csv file and 22KB for the sav file |

Column description

If the dataset is tabular, it is obligatory to describe the content of each column.

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **unit** | **Data type +** | **description** |
| No | no unit |  | Number (ID) of the sample |
| ID | no unit |  | Sample ID |
| Lith6 | no unit | Nominal | Lithology when classified as 6 categories |
| Lith2 | no unit | Nominal | Lithology when classified as 2 categories |
| Lithology2 | no unit | Nominal | Numbered Lith2: 1 = calcareous and 2 = acid |
| LandUse\_Name | no unit | Nominal | Name of the land use type |
| LandUse | no unit | Nominal | Numbered land use type: 1 = forest, 2 = grassland, 3 = cultivated grassland, 4 = abandont cultivation, 5 = cultivation |
| Grazing\_Name | no unit | Ordinal | Levels of grazing intensity |
| Grazing | no unit | Ordinal | Numbered levels of grazing intensity: 1 = none, 2 = low, 3 = medium, 4 = high |
| SloPos\_Name | no unit | Nominal | Slope position |
| SlopePosition | no unit | Nominal | Numerbered slope position: 1 = top/plateau, 2 = slope, 3 = valley |
| Altitude | m a.s.l. | Scale | Altitude of the plot |
| SlopeAngle | ° | Scale | Slope angle |
| Cdepth | cm | Scale | Soil depth |
| Lith\_D1 | no unit | Nominal | Dummy variable for lithology: 1 = acid |
| LandUse\_D1 | no unit | Nominal | Dummy variable 1 for land use: 1 = grassland |
| LandUse\_D2 | no unit | Nominal | Dummy variable 2 for land use: 1 = cultivated grassland |
| LandUse\_D3 | no unit | Nominal | Dummy variable 3 for land use: 1 = abandont cultivation |
| LandUse\_D4 | no unit | Nominal | Dummy variable 4 for land use: 1 = cultivation |
| Grazing\_D1 | no unit | Nominal | Dummy variable 1 for grazing intensity : 1 = low |
| Grazing\_D2 | no unit | Nominal | Dummy variable 2 for grazing intensity : 1 = medium |
| Grazing\_D3 | no unit | Nominal | Dummy variable 3 for grazing intensity : 1 = high |
| SlopePosition\_D1 | no unit | Nominal | Dummy variable 1 for slope position : 1 = slope |
| SlopePosition\_D2 | no unit | Nominal | Dummy variable 2 for slope position : 1 = valley |
| CstockTotal | Mg ha-1 | Scale | Total SOC stock |
| C10 | Mg ha-1 | Scale | SOC stock assessed to 10 cm |
| C20 | Mg ha-1 | Scale | SOC stock assessed to 20 cm |
| C30 | Mg ha-1 | Scale | SOC stock assessed to 30 cm |
| C40 | Mg ha-1 | Scale | SOC stock assessed to 40 cm |
| NstockTotal | Mg ha-1 | Scale | Total N stock |
| N10 | Mg ha-1 | Scale | N stock assessed to 10 cm |
| N20 | Mg ha-1 | Scale | N stock assessed to 20 cm |
| N30 | Mg ha-1 | Scale | N stock assessed to 30 cm |
| N40 | Mg ha-1 | Scale | N stock assessed to 40 cm |
| C\_ConcAve | % | Scale | Averaged SOC concentration |
| C\_Conc10cm | % | Scale | SOC concentration of the top 10 cm |
| N\_ConcAve | % | Scale | Averaged N concentration |
| N\_Conc10cm | % | Scale | N concentration of the top 10 cm |
| pH\_Ave | no unit | Scale | Averaged pH value |
| pH\_10 | no unit | Scale | pH value of the top 10 cm |
| BD\_Ave | g cm-1 | Scale | Averaged bulk density |
| BD\_10 | g cm-1 | Scale | bulk density of the top 10 cm |
| Moisture\_Ave | g kg-1 soil | Scale | Averaged soil mositure |
| Moisture\_10cm | g kg-1 soil | Scale | soil moisture of the top 10 cm |
| W | ° | Scale | Longitude |
| S | ° | Scale | Latitude |

+ data type: integer, double precision, timestamp without time zone, geometry, etc...