

Soil properties soil profiles Benin (ORSTOM) (IMPETUS dataset ID = 502)

General information

Dataset name: Soil properties soil profiles Benin (ORSTOM) (IMPETUS dataset ID = 502)
Created on: 2006-04-06

Contact(s)

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Period

Date begin (yyyy-mm-jj): 1963-01-01
Date end (yyyy-mm-jj): 1996-12-31

Project(s)

IMPETUS

Data description

Abstract

Profile data from about 225 profiles studied by ORSTOM scientists in the 60ies, 70ies and 80ies plus some profiles studied by CENAP scientists in 1996 in the region Ouaké (profile descriptions from the years 1963, 1968-1991, 1985,1989,1996; for each profile only one description during the whole period). The Excel-database contains the data of all profiles. Each profile refers to a soil type in the legend of the ORSTOM soil maps of Benin (1:200.000). The database contains general characteristics of the profile location and physical and chemical properties of the different soil horizons. Parameter, Attribute list: soil texture, nitrogen, pH, magnesium, soil depth, organic carbon, phosphor, calcium, CECpot, base saturation. Dataset created by IMPETUS subproject A2.

Data Lineage: ORSTROM (now IRD); No information about Data Consistency; Data Completeness: This database doesn't include profile data from all departments of Benin, Some department in Southern Benin are missing because I have not yet received the data from A.M. Igue at CENAP (Benin), I suppose that there are more profiles; No information about Positional Accuracy; Data Completeness: Some lines in the database are underlined in purple or yellow colour, This indicates obvious discrepancies in the data, e.g., sums of particle size fractions clearly differing from 100%. Some categories in the database have not been translated completely into English to avoid errors and information loss by imprecise translations, Some profiles had no information about the SoiltypeID, to avoid errors in classification these profile were left aside and listed in a separate Excel sheet

Observing strategy

These profiles were studied in the 70ies and 80ies by French scientists (ORSTOM) for the elaboration of the soil map for Benin 1:200.000. The explanation documents of the soil map sheets document several of these profiles but for a complete attribution of physical and chemical soil properties to the soil types this database can be useful. In combination with the soil maps this data can still provide a good basis for large scale hydrological modelling although the soil data is already quite old.

Geographic information

Measured parameters

Soil analysis

Parameter name: soil analysis
Parameter keyword: Land Surface > Soils

Soil organic matter

Parameter name: soil organic matter
Parameter keyword: Land Surface > Soils

Soil physics

Parameter name: soil physics
Parameter keyword: Land Surface > Soils

Soil chemistry

Parameter name: soil chemistry
Parameter keyword: Land Surface > Soils > Soil Chemistry

Soil classification

Parameter name: soil classification
Parameter keyword: Land Surface > Soils > Soil Classification

Data use information

Use constraints: Please inform the Point of Contact if you use the data for publication
Data policy: IMPETUS data policy
Database: IMPETUS
Original data format(s): Excel