

Simulation of discharge and erosion Terou (IMPETUS dataset ID = 510)

General information

Dataset name: Simulation of discharge and erosion Terou (IMPETUS dataset ID = 510)
Created on: 2006-04-06

Contact(s)

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Period

Date begin (yyyy-mm-jj): 1998-01-01
Date end (yyyy-mm-jj): 2003-12-31

Project(s)

IMPETUS

Data description

Abstract

Simulation results for discharge and sediment yield for the Terou Igbomakoro catchment for the period 1998-2003. The folder contains for Excel-files showing the results of: 1. calibration and validation of the model 2. baseflow separation for Terou Igbomakoro outlet 3. sensitivity analysis for the model 4. uncertainty analysis for the model If available results are presented for different timesteps daily/weekly/monthly/yearly). Parameter, Attribute list: total discharge, sediment yield, erosion rate, surface runoff, baseflow, measured discharge. Dataset created by IMPETUS subproject A2.

No information about Data Lineage; No information about Data Consistency; No information about Data Completeness; No information about Positional Accuracy; Data Completeness: As measurements of goodness the coefficient of determination, the model efficiency and the index of agreement were used, They showed a good agreement between simulated and measured discharge data, The simulated sediment yield was not calibrated and validated and should therefore interpreted more carefully, Details can be found in Sintondji (2005)

Observing strategy

The main objective of this study was the set-up of a model for the Terou Igbomakoro catchment which can simulate hydrological and erosive processes in the catchment in a reliable manner. It's important to set up such a calibrated and validated model as a pre-condition for scenario analysis considering future climate and landuse

change.

Geographic information

Ouémé Upper Catchment (HVO)

Location name:	Ouémé Upper Catchment (HVO)
West bounding coordinate (°):	1.2056
East bounding coordinate (°):	3.0008
North bounding coordinate (°):	10.3814
South bounding coordinate (°):	8.6763

Térou

Location name:	Térou
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IMPETUS_510

Location name:	IMPETUS_510
West bounding coordinate (°):	1.09
East bounding coordinate (°):	1.5
North bounding coordinate (°):	9.72
South bounding coordinate (°):	8.95

Measured parameters

Hydrological modelling

Parameter name:	hydrological modelling
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Baseflow

Parameter name:	baseflow
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Erosion

Parameter name:	Erosion
Parameter keyword:	Land Surface > Erosion/Sedimentation > Erosion

Runoff

Parameter name:	Runoff
Parameter keyword:	Terrestrial Hydrosphere > Surface Water > Runoff

Erosion modelling

Parameter name:	erosion modelling
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Sediments

Parameter name: sediments
Parameter keyword: Land Surface > Erosion/Sedimentation > Sediments

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