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Deformation and meteorological data of the Khoko landslide, Enguri, Republic of Georgia (2016-2020)

Dati deformativi e meteorologici della frana di Khoko, Enguri, Repubblica della Georgia (2016-2020)

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Methodological Notes¹

Data deal with measurement time series, taken over the period 2016-2020, of the active Khoko landside, located along the eastern side of the Enguri water reservoir, Greater Caucasus (Georgia). These data comprise information on slope deformation, meteorological factors and man-induced perturbations of the water level variations of the reservoir.

The monitoring system is composed of two digital extensometers, placed within two artificial trenches excavated across the landslide head scarp. The stations are equipped also with internal and external thermometers. Data also include the daily measurements of rainfall and lake level.

Data on the rainfall and the lake level variations were daily collected, while data on the extensimetric deformations and the temperatures (both inside the instrument and outside at the two landslide measurement sites) were hourly collected.

The rainfall and lake level variation data were collected using special instruments (Multi-Channel Recorder RSG30 Ecograph T by Endress+Hauser, and Davis Vantage Pro2) located at the Enguri dam, nearby to the Khokos landslide. The extensimetric deformation values of the landslide and the internal and external temperatures were measured using the Wire Linear Potentiometric Transducer SF500 connected to a data-logger.

Data are organized in four files:

Trench 1

The file contains the data of the extensimeter n. 1 located across the head scarp of the Khoko landslide, a slope deformation facing the Enguri reservoir in Republic of Georgia. Information collected concerns the date of measurement² (expressed as day/month/year and hour and minutes), the amount of cable extension in mm, the temperature recorded by the instrument (°C) within the trench, and the wire temperature (°C). The file includes 17.538 record.

Trench 2

The file contains the data of the extensimeter n. 2 located across the head scarp of the Khoko landslide, a slope deformation facing the Enguri reservoir in Republic of Georgia. Information collected concerns the date of measurement³ (expressed as day/month/year and hour and minutes), the amount of cable extension in mm, the temperature recorded by the instrument (°C) within the trench, and the wire temperature (°C). The file includes 21.970 record.

Rain

The file contains the data on the amount of rain recorded nearby the dam of the Enguri lake, Republic of Georgia. Information collected concerns the date of measurement⁴ (expressed as day/month/year) and the quantity of rain per day expressed in mm. The file includes 1.210 record.

Lake level

1 The methodological notes are curated by UniData – Bicocca Data Archive, and are based on information provided by prof. Alessandro Tibaldi. For more details, please contact alessandro.tibaldi@unimib.it

2 The time series cover the period from 4 November 2016 to 9 October 2019, with a gap between 30/12/2018 and 13/8/2019 due to a technical problem.

3 The time series cover the period from 18 May 2017 to 30 September 2019.

4 The time series cover the period from 4 November 2016 to 30 June 2020.

The file contains the data on variation of the level of the Enguri artificial lake, Republic of Georgia. Information collected concerns the date of measurement⁵ (expressed as day/month/year) and the level of the lake in meters as altitude above sea level. The file includes 1.105 record.

5 The time series cover the period from 1 January 2017 to 30 June 2020.