NH3.12/CL2.49/SSS2.11
Landslides and Soil Erosion in a Changing Climate: Analysis, Trends, Uncertainties and Adaptation Solutions

Guido Rianna, Stefano Luigi Gariano, Fausto Guzzetti, Alfredo Reder, Monia Santini

Chat Thu, 07 May, 10:45–12:30
Web survey

As reported in the mail we sent you on Monday, a websurvey has been prepared to collect your insights and remarks about the Session’s topics.

If you haven’t already compiled it, please go to www.menti.com using the code

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We recall that it is not possible to trace the single contributions but only aggregated information will be collected and discussed at the end of the session. Furthermore, they are available for all the concerned.
Session organization

According the works you submitted to the Session, we identified four subtopics concerning:

- **European case studies** moderated by Stefano Luigi Gariano
- **Extra-European case studies** moderated by Alfredo Reder
- **Modeling issues supporting** moderated by Guido Rianna
- **Water erosion dynamics** moderated by Monia Santini
European case studies

Impacts of future land cover and climate changes on landslide susceptibility. Results obtained from regional-scale modelling in the Pyrenees.

Marcel Hürlimann, Vicente Medina, Zizheng Guo, Carol Puig-Polo, Antonio Lloret, and Jean Vaunat

Towards a dynamic landslide susceptibility assessment: evaluation of a novel climate-related variable

Irene Corno, Corrado Camera, Greta Bajni, Stefania Stevenazzi, and Tiziana Apuani

Snowmelt influence in shallow landslides

Renzo Rosso, Maria Cristina Rulli, Mattia Galizzi, Davide Danilo Chiarelli, and Daniele Bocchiola

Stefano Luigi Gariano, CNR-IRPI Italy
Extra-European case studies

D1902 | EGU2020-4546 ★
On the Landslide Hazard with the Impact of Climate Change in Central Taiwan
Keh-Jian Shou

D1903 | EGU2020-22030 ★
Swelling clayey soils promote slope instability in the Muhunguzi watershed, western Burundi
Bruno Delvaux, Clairia Kankurize, and Gervais Rufyikiri

D1904 | EGU2020-5703 ★
Daily rainfall above 75mm is a major trigger to landslides in the Muhunguzi, western Burundi
Clairia Kankurize, Gervais Rufyikiri, and Bruno Delvaux

Alfredo Reder, CMCC Foundation
Modeling issues

D1901 | EGU2020-21500
Technical solutions for landslide risk mitigation with law impact on landscape
Evelina Volpe, Diana Salciarini, and Elisabetta Cattoni

D1906 | EGU2020-22249 | Highlight
Climate change and landslides: introducing a thermo-hydro-mechanical approach
Gianvito Scaringi

D1907 | EGU2020-11816
Numerical Modeling of Non-Newtonian Flows within a Newtonian Equation Framework
Gaurav Savant, Ian Floyd, and Ronald Heath

D1908 | EGU2020-22194
Soil Moisture Initialization Input Scale Effect on Parameter Value Identification of a Physically Based Distributed Hydrologic Modelling
Nawa Raj Pradhan, Steven Brown, and Ian Floyd

Guido Rianna, CMCC Foundation
Water erosion dynamics

SWAT modeling for assessing future scenarios of soil erosion in West Rapti River Basin of Nepal
Rocky Talchabhadel, Hajime Nakagawa, Kenji Kawaike, Kazuki Yamanoi, Anil Aryal, Binod Bhatta, and Saroj Karki

Exploiting Copernicus Climate Change Service (C3S) to assess ongoing and future soil erosion over Italy
Guido Rianna, Monia Santini, Marco Mancini, Roberta Padulano, and Sergio Noce

Monia Santini, CMCC Foundation
Further details

We really appreciate your interest for the session.

We are sure that the discussion could be respectful, interesting and fruitful.

Nevertheless, we support you for preventing unbecoming conduct or any other issue.

Thank you!