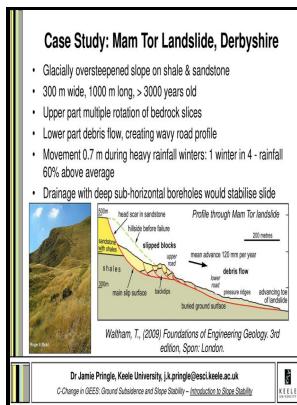


# Subsidence due to undermining of sloping terrain - a case study

**U.S. Dept. of the Interior, Bureau of Mines - A case study of undermining impoundment embankments by the longwall mining method**



Description: -

Manzoni, Giacomo, 1932- -- Criticism and interpretation.

Longwall mining -- Pennsylvania.

Mine subsidences -- Pennsylvania. Subsidence due to undermining of sloping terrain - a case study

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Report of investigations (United States. Bureau of Mines);

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Notes: Includes bibliographical references (p.10).

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## NIOSHTIC

Based on the principles of fuzzy mathematics and the analytical hierarchy process, a susceptibility assessment system was developed to define the risk from mine collapse for the coalfields across the mining area. However, an adequate attention has not yet been paid to these problems; in this study, the possible influence of present and former mining activities on the selected set of model slope deformations in the Ostrava—Karviná Coalfield Opliji, Repiste and Orlova Lazy District was analysed and a methodology for their observation for application to similar conditions and influence was described. The problem of subsidence and damages on buildings above mining works is an inevitable consequence of underground coal mining in large mining basins.

## Stochastic method for prediction of subsidence due to the underground coal mining integrated with GIS, a case study in Serbia

The aim of this study was to locate areas in Bergen city centre that are prone to the dual hazard of subsidence and flooding. Underground coal mining with high groundwater levels causes many environmental problems, one of the main ones being subsidence waterlogging .

## Deformation of slopes as a cause of underground mining activities: three case studies from Ostrava

Archiwum Górnictwa i Hutnictwa, t.

## Subsidence versus natural landslides when dealing with property damage liabilities in underground coal mines

Evaluation of subsidence due to underground coal mining: an example from the Czech Republic Evaluation of subsidence due to underground coal mining: an example from the Czech Republic Marschalko, Marian; Bednárik, Martin; Yilmaz, İşik; Bouchal, Tomáš; Kubečka, Karel 2011-09-01 00:00:00 This paper presents a case study dealing with variations on the ground surface due to the underground mining activities in the Ostrava—Karvina Coal District Czech Republic over the last 25 years. This paper summarised the typical pro-active ground control management system PGCMs implemented in various Australian underground coal mines.

## **Subsidence due to undermining of sloping terrain: a case study. Report of Investigations/1988 (Technical Report)**

The city is therefore prone to water-related damage caused by pluvial flooding, storm surges and stormwater flooding.

### **Deformation of slopes as a cause of underground mining activities: three case studies from Ostrava**

Increase in colour intensity with the increasing surface water depth. For this purpose, a net of control points was developed, and the geodesic net of HUNOSA was used as the reference base. Research conclusions indicate the low efficiency of collective and personal measures applied to protect against dust harmful to health as well as the need to improve them.

### **Modification of subsidence parameters for sloping ground surfaces by the rays projection method**

For scientific research on the relationship between flooding and subsidence, or for the municipality to select areas for greater follow-up, this method gives significant results for the clearest selection of areas and. The resulting aeration of the leads to the oxidation of its organic components, such as , and this decomposition process may cause significant land subsidence.

### **Modelling the impact of land subsidence on urban pluvial flooding: A case study of downtown Shanghai, China**

Please refer to the online version of this paper to see this figure in colour:

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