

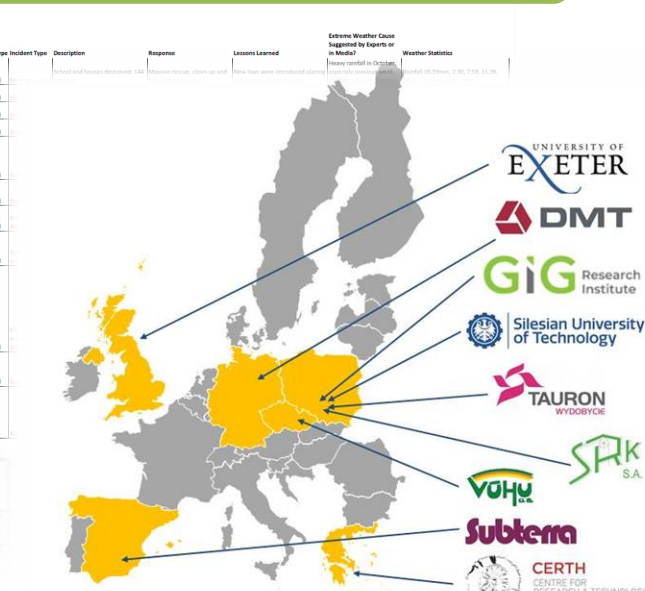
## TEXMIN Handbook

A Guide to Managing the Risks Posed to Working and Abandoned Mining Facilities, and to the Surrounding Environment, Caused by Climate Change

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## UPDATED DATABASE OF MINING INCIDENTS FOR EU COUNTRIES PARTICIPATING IN TEXMIN

No.	Date of Incident	Country	Location	Mine Name	Working or Abandoned	Mine Type	Extreme Weather Type	Incident Type	Description	Response	Lessons Learned	Extreme Weather Cause Suggested by Experts or Media?	Weather Statistics
1	21 October 1986	UK	Aberfeldy, South Wales	Merrifry Vale Colliery	Working	Coal	High rainfall	Abandonment	...	...	...	...	...
2	03 February 2020	UK	Reafrath, Cornwall	Peabody Mine	Abandoned	Copper	High rainfall	Abandonment	...	...	...	...	...
3	17 October 2020	UK	Northumberland Park, North Yorkshire	Unknown	Abandoned	Coal	High rainfall	Abandonment	...	...	...	...	...
4	01 April 2010	UK	Wendrobury	Unknown	Abandoned	Limestone	High rainfall	Abandonment	...	...	...	...	...
5	18 November 2010	UK	Tyghal, New Tyneglan, South Wales	Tyghal Colliery?	Abandoned	Coal	High rainfall	Abandonment	...	...	...	...	...
6	14 August 2011	UK	Crusader Ave., Warrington, Cheshire	Unknown	Abandoned	Coal and iron	High rainfall	Abandonment	...	...	...	...	...
7	10 June 2012	UK	Aberystwyth, Wales	Several mines	Abandoned	Lead, zinc	High rainfall	Abandonment	...	...	...	...	...
8	29 June 2012	UK	Blyth, Northumberland	New Central Colliery?	Abandoned	Coal	High rainfall	Abandonment	...	...	...	...	...
9	20 August 2012	UK	Geestofth, Cumbria	Bangdale Mine	Abandoned	Iron	High rainfall	Abandonment	...	...	...	...	...
10	12 February 2013	UK	Harfield, Yorkshire	Harfield Colliery	Working	Coal	High rainfall	Abandonment	...	...	...	...	...
11	23 December 2013	UK	Poolew, Derbyshire	Stair's Mine?	Abandoned	Lead	High rainfall	Abandonment	...	...	...	...	...



## RISK MANAGEMENT TOOL WITH USER'S GUIDE

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## SCIENTIFIC PUBLICATIONS

**Slope Stability Numerical Analysis and Landslide Prevention of Coal Mine Waste Dump under the Impact of Rainfall—A Case Study of Janina Mine, Poland**

**Numerical Analysis of Groundwater Effects on the Stability of Abandoned Shallow Underground Coal Mine**

**Modeling flooding due to runoff from spoil heaps during heavy rainfall**

**Shaft Liquidation Method Adjusted for High Precipitation Associated with Climate Change Impact**

These publications discuss various aspects of mining safety and environmental impact, including slope stability, groundwater effects, and shaft liquidation methods.

# TEXMIN PROJECT RESULTS

## RAISING AWARENESS

## FINAL CONFERENCE PRESENTATIONS

- Introduction to TEXMIN project (Polish version is available here)
- Impact of precipitation and groundwater level changes affecting tailing dams and natural hillsides located over underground
- A new perspective for the numerical slope stability of surface coal mines due to rainfall
- Advantages and disadvantages of overburden protection of deep mines from surface weather phenomena
- Gas emissions form closed mine in light of climate change
- Summary of impacts & synthesis of modelling undertaken in TEXMIN project
- Mitigation strategies and tools for eliminating or minimising the impact of extreme weather
- Strategies and remedial actions for impact and risks affecting mining structures
- Impact identification related with changes in precipitation and monitoring methodology in tailing
- Risk monitoring and adaptation measures during the reclamation of mining region sites
- Supporting processes of forecasting and reacting to climate risks



## REGIONAL WORKSHOPS AND MEETINGS



DO YOU WANT TO KNOW MORE ABOUT THE PROJECT RESULTS?

FIND US ON OUR WEBSITE!

[www.texmin.gig.eu](http://www.texmin.gig.eu)

## SPECIAL ISSUE

**JOURNAL OF SUSTAINABLE MINING**

**(2021) CLIMATE CHANGE IMPACTS ON THE MINING INDUSTRY**

RESEARCH ARTICLES

EDITORIAL

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