

## Debris Flow Hazards And Related Phenomena

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### **Debris-flow Hazards and Related Phenomena | Matthias Jakob ...**

Debris Flow Hazards and Related Phenomena is set to become the standard reference on debris flows, debris avalanches and related phenomena. The editors provide a complete treatment of all aspects of debris flow and debris avalanche research whilst making the book a useful tool for experts, researchers and students.

### **Thomas C Pierson, Ph.D. - USGS.gov**

With climate change and deforestation, debris flows and debris avalanches have become the most significant landslide hazards in many countries. In recent years there have been numerous debris flow avalanches in Southern Europe, South America and the Indian Subcontinent, resulting in major catastrophes and large loss of life. This is therefore a major high-profile problem for the world's ...

### **Debris-flow and flooding hazards caused by the December ...**

Post-fire flooding and debris flow may continue for several years in an area affected by wildfire, posing threats to life and property in downstream communities. The U.S. Geological Survey maintains an extensive surface-water monitoring system, collecting data from more than 500 streamgages and 3,000 wells throughout California, which may help inform emergency management decisions and plans.

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Tognacca, C. and Bezzola, G.R. (1997) Debris-flow initiation by channel-bed failure. In: C-L. Chen (ed), Debris-flow Hazards Mitigation: Mechanics, Prediction, and Assessment: Proceedings of 1st International Conference, San Francisco, California, August 7-9 (pp. 44-53). American Society of Civil Engineers, New York. Google Scholar

### **Debris flow: categories, characteristics, hazard ...**

For this reason, hazards related to debris flows are a major concern for urban settlements and human activities on mountain environments and alluvial fans, due to their mutual interaction [4] [5] ...

### **Debris Flows - Utah Geological Survey**

Debris Flow Hazard Areas: (A) Canyon bottoms, stream channels, and areas near the outlets of canyons or channels are particularly hazardous. Multiple debris flows that start high in canyons commonly funnel into channels. There, they merge, gain volume, and travel long distances from their sources.

### **(PDF) Debris-flow hazards and related phenomena**

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### **Debris-Flow Hazards and Related Phenomena - NASA/ADS**

Debris-flow and flooding hazards associated with the December 1999 storm in coastal Venezuela and strategies for mitigation. By. Wiecezorek, G.F., Larsen, M.C., Eaton, L.S., Morgan, B.A. and Blair, J. L. ... The non-structural measures for debris-flow hazard mitigation include removing or converting existing development, discouraging development ...

### **Emergency Assessment of Post-Fire Debris-Flow Hazards**

Thomas C Pierson, Ph.D. Research Hydrologist Volcano Science Center, Cascades Volcano Observatory ... ed., Delineation of Landslide, Flash Flood, and Debris-Flow Hazards in Utah: Utah Water Research Laboratory, General Series UWRL/G-85/03, Logan, Utah, ... and Hungr, Oldrich (eds), Debris-flow Hazards and Related Phenomena: Springer/Praxis ...

### **Debris-flow Hazards and Related Phenomena - Matthias Jakob ...**

Categories of Debris Flows Since debris flows are rapid mass movements and a dangerous natural hazard, their categorization is an objective of many researchers worldwide. Historically, Sharpe (1938) made a differentiation between debris flow and debris avalanches. This separation was retained by Varnes (1978), who classified the flow type mass

### **Debris flow - Wikipedia**

Debris-flow hazards and related phenomena. ... Our findings proved that an extreme rainstorm can trigger landslides and debris flows in an area where no such hazards were documented before. It is ...

### **Postwildfire Debris-Flow Hazards - USGS**

With climate change and deforestation, debris flows and debris avalanches have become the most significant landslide hazards in many countries. In recent years there have been numerous debris flow avalanches in Southern Europe, South America and the Indian Subcontinent, resulting in major catastrophes and large loss of life. This is therefore a major high-profile problem for the world's ...

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### **Debris-flow Hazards and Related Phenomena | SpringerLink**

The debris-flow hazard on alluvial fans can be difficult to recognize, particularly on alluvial fans that are subject to high-magnitude, low-frequency events. Debris flows pose a hazard very different from other types of landslides and floods due to their rapid movement and destructive power. Debris flows can occur with little warning.

### **Wildfire-related debris flow from a hazards perspective ...**

Debris flows are accelerated downhill by gravity and tend to follow steep mountain channels that debouche onto alluvial fans or floodplains. The front, or 'head' of a debris-flow surge often contains an abundance of coarse material such as boulders and logs that impart a great deal of friction. Trailing behind the high-friction flow head is a lower-friction, mostly liquefied flow body that ...

### **Debris-flow Hazards and Related Phenomena (Springer Praxis ...**

The USGS conducts post-fire debris-flow hazard assessments for select fires in the Western U.S. We use geospatial data related to basin morphometry, burn severity, soil properties, and rainfall characteristics to estimate the probability and volume of debris flows that may occur in response to a design storm. The maps below depict the ...

### **Debris Flow, Mudslide and Mudflow Hazards in the U.S.**

Potential postwildfire debris-flow hazards: a prewildfire evaluation for the Sandia and Manzano Mountains and surrounding areas, central New Mexico. Wildfire can drastically increase the

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probability of debris flows, a potentially hazardous and destructive form of mass wasting, in landscapes that have otherwise been stable throughout recent history.

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