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Combining Satellite Multispectral Imagery and Topographic Data for the Detection and Mapping of Fluvial Avulsion Processes in Lowland Areas by Giulia Iacobucci, Francesco Troiani, Salvatore Milli, Paolo Mazzanti, Daniela Piacentini, Marta Zocchi and Davide Nadali Remote Sens. 2020, 12 (14), 2243; <https://doi.org/10.3390/rs12142243> - 13 Jul 2020

Special Issue "Remote Sensing for Geomorphological Mapping"

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complimentary methods such as desk study and historical analysis, aerial photographic interpretation, sub-surface investigation and monitoring (Griffiths, 2001; Lee, 2001).

Geomorphological Mapping - an overview | ScienceDirect Topics

Satellite Based Geomorphological Mapping For Urban Scale is one of main issues in geomorphological mapping. The spatial scales of geomorphological features span over a large range, from 10⁷ km² (continents, ocean basins) to 10⁻⁸ km² (glacial striations, ripples) (Tricart, 1965). Moreover, the persistence time ranges from 10⁸ years (for the largest features) to less than 10² years (for the ...

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Geomorphological maps are amongst the best tools for understanding the physical context of the Earth's surface. They provide a full objective description of landforms (morphography) identified with specific names and depicted with their correct shape or, where not allowed by the map scale, by appropriate symbols.

Nature and Aims of Geomorphological Mapping - ScienceDirect

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Geomorphological Mapping: a professional handbook of techniques and applications is a new book targeted at academics and practitioners who use, or wish to utilise, geomorphological mapping within their work. Synthesising for the first time an historical perspective to geomorphological mapping, field based and digital tools and techniques for mapping and an extensive array of case studies from ...

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sensing), cartography and data sources with a focus on modern technologies (including GIS, remote sensing and digital terrain analysis) Provides readers with summaries of current advances in methodological/technical aspects Accompanied by electronic resources for digital mapping

Section 1. Geomorphological mapping -- section 2. Techniques in applied geomorphological mapping -- section 3. Case studies.

The changing focus and approach of geomorphic research suggests that the time is opportune for a summary of the state of discipline. The number of peer-reviewed papers published in geomorphic journals has grown steadily for more than two decades and, more importantly, the diversity of authors with respect to geographic location and disciplinary background (geography, geology, ecology, civil engineering, computer science, geographic information science, and others) has expanded dramatically. As more good minds are drawn to geomorphology, and the breadth of the peer-reviewed literature grows, an effective summary of contemporary geomorphic knowledge becomes increasingly difficult. The fourteen volumes of this Treatise on Geomorphology will provide an important reference for users from undergraduate students looking for term paper topics, to graduate students starting a literature review for their thesis work, and professionals seeking a concise summary of a particular topic. Information on the historical development of diverse topics within geomorphology provides context for ongoing research; discussion of research strategies, equipment, and field methods, laboratory experiments, and numerical simulations reflect the multiple approaches to understanding Earth's surfaces; and summaries of outstanding research questions highlight future challenges and suggest productive new avenues for research. Our future ability to adapt to geomorphic changes in the critical zone very much hinges upon how well landform scientists comprehend the dynamics of Earth's diverse surfaces. This Treatise on Geomorphology provides a useful synthesis of the state of the discipline, as well as highlighting productive research directions, that Educators and students/researchers will find useful. Geomorphology has advanced greatly in the last 10 years to become a very interdisciplinary field.

Undergraduate students looking for term paper topics, to graduate students starting a literature review for their thesis work, and professionals seeking a concise summary of a particular topic will find the answers they need in this broad reference work which has been designed and written to accommodate their diverse backgrounds and levels of understanding Editor-in-Chief, Prof. J. F. Shroder of the University of Nebraska at Omaha, is past president of the QG&G section of the Geological Society of America and present Trustee of the GSA Foundation, while being well respected in the geomorphology research community and having won numerous awards in the field. A host of noted international geomorphologists have contributed state-of-the-art chapters to the work. Readers can be guaranteed that every chapter in this extensive work has been critically reviewed for consistency and accuracy by the World expert Volume Editors and by the Editor-in-Chief himself No other reference work exists in the area of Geomorphology that offers the breadth and depth of information contained in this 14-volume masterpiece. From the foundations and history of geomorphology through to geomorphological innovations and computer modelling, and the past and future states of landform science, no "stone" has been left unturned!

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The specialist contributors to Geomorphological Techniques have thoroughly augmented and updated their original, authoritative coverage with critical evaluations of major recent developments in this field. A new chapter on neotectonics reflects the impact of developments in tectonic theory, and heavily revised sections deal with advances in remote sensing, image analysis, radiometric dating, geomorphometry, data loggers, radioactive tracers, and the determination of pore water pressure and the rates of denudation.

This book covers several themes related to forestry, agriculture, water, soil, urban, and atmospheric research. GIScience technology systems have increased in significance in recent decades and have the ability to acquire information at ground level with a higher spectral resolution using a field radio-spectrometer, which is a great improvement compared to other remote sensing systems. GIScience technology systems are widely used for solving and understanding the concept of forestry, crop, water resources, and related research themes. This book aims to advance the scientific understanding of GIScience technology and applications. The chapters present GIScience data integration with other sources such as LiDAR, Multi-spectral data and their applications in forestry, crop assessment, soil assessment, mineral mapping and related themes. The book will be of interest to geospatial experts, modellers, foresters, agricultural scientists, hyperspectral remote sensing and space community, ecologists and conservation communities, environmental consultants, big data compilers, and computing experts.

Geomorphological mapping assists in evaluating the polygenetic role of glaciation, mass movement denudation, and fluvial erosion in landscape development. A series of thirteen 1:100,000 geomorphological maps covering the area between Skardu and K2 were produced using field mapping and photography, GPS measurements, ASTER satellite imagery, and digital elevation model (DEM) analysis. Satellite and morphometric analysis were performed using GIS software. The landforms are described in relation to geology, geomorphological processes, and altitudinal zones. Case studies include flash flood deposits, active landslide areas, sackungen, and rock avalanches. The Skardu Basin has tills preserved on many higher slopes, and sand dunes cover wide areas of fluvial sediments from a braided river system. Extensive alluvial and debris fans make up the Shigar Valley, and a sackung follows an anticline on its western ridge. In the narrow Braldu Valley between Dassu and Askole, many fans are deeply dissected, and extensive landsliding is common on the steep slopes. Strath terraces reveal former higher riverbeds and high fluvial erosion rates. Outburst flood deposits from temporary lakes that formed behind former landslides or moraines are located in several locations. Between Skardu and K2, tributary glaciers deposited lateral and terminal moraines. Thick debris covers most of the glaciers; Baltoro Glacier shows a rough topography with countless supraglacial and para-glacial lakes. Analysis of landform types helps to understand the dominance of individual geomorphological processes. Glacial, fluvial, and tectonic processes each play an important role in the relief production of the study area. This is the first complete geomorphological map series of the area and it provides important insight into the nature of topographic evolution in this region.

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