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Lab 11: FIELD DESCRIPTION OF METAMORPHIC ROCKS The basic procedural aspects of writing a description for metamorphic rocks or rock units are identical to those for sedimentary rocks and rock units. The main difference is, of course, terminology. With this in mind, today's lab focuses on common terms that are used to describe metamorphic rock textures, fabrics, structures and mineralogy, as well as some working descriptions of commonly used metamorphic rock names.

Lab 11: FIELD DESCRIPTION OF METAMORPHIC ROCKS

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facies, preservation of peak assemblages, metamorphic field gradients, foliation and lineation, chemical flux, and recrystallization. Part 1: Metamorphic rock types Short and useful remarks about the protoliths of each of these rock types lead off these chapters.

A Pictorial Guide to Metamorphic Rocks in the Field ...

Hand specimen descriptions for metamorphic rocks are like those for igneous rocks. The objective is to tell someone looking at it everything they need to know to recognize it in the field. Descriptions should be reasonably comprehensive but clear and succinct, typically no more than two or three sentences. • Rock color. One color only. After stating the overall rock color, you may then qualify it.

Hand specimen descriptions of metamorphic rocks

Rocks: Igneous, Metamorphic and Sedimentary Rocks hold the history of the earth and the materials that will be used to build its future.

Rocks: Pictures of Igneous, Metamorphic and Sedimentary Rocks

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In general, color is a good clue to the silica content of extrusive igneous rocks, with basalt being dark and felsite being light. Although geologists would do a chemical analysis before identifying andesite in a published paper, in the field they readily call a gray or medium-red extrusive igneous rock andesite.

Geological Society of London Handbook Series
Edited by Keith Cox Founded in 1807, the Geological Society of London has been publishing since 1845 and now distributes its journal to Fellows throughout the world. This Handbook is published as part of a series of authoritative practical guides to field geology. The Field Description of Metamorphic Rocks "This handbook describes how metamorphic rocks and rock masses may be observed, recorded and mapped in the field. Written at a level suitable for undergraduate students of geology, this book (as with its companion volumes in the series) has firmly established itself as an essential tool for any geologist -- student, professional or amateur -- faced with the task of making a general description of an area of metamorphic rocks. A clear, systematic framework together with numerous diagrams, illustrations and checklists enables readers to produce useful and broadly similar descriptions, despite

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possible differences of background or specialist interest. This well-written and well-produced little text will, I am certain, become standard reading for most geology undergraduates. It will also interest many geologists who do not regularly work in metamorphic terrains and will be particularly useful to engineering geologists and civil engineers who are often concerned with describing the fabrics of metamorphic rocks without being concerned about their origins." —M.E. Jones, Mineralogical Magazine Contents: Metamorphic Fieldwork and Mapping Names and Categories of Metamorphic Rocks and Rock Units Rock Banding Minerals Compositions Grade Textures Fabric Types Relations to Structures Undeformed Pods Augen Pseudomorphs Veins Igneous Contacts Metasomatism Reaction Zones Fault-Zones and Mylonites Reference Tables and Checklists

This book is an illustrative introduction to metamorphic rocks as seen in the field, designed for advanced high school to graduate-level earth science and geology students to jump-start their observational skills. In addition to photographs of rocks in the field, there are numerous line diagrams and examples of metamorphic features shown in thin section. The thin section photos are all at a scale and in a context that can be related to views seen in the field through a

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hand lens.

Geological Society of London Handbook Series Edited by Keith Cox Founded in 1807, the Geological Society of London has been publishing since 1845 and now distributes its journal to Fellows throughout the world. This Handbook is published as part of a series of authoritative practical guides to field geology. The Field Description of Metamorphic Rocks "This handbook describes how metamorphic rocks and rock masses may be observed, recorded and mapped in the field. Written at a level suitable for undergraduate students of geology, this book (as with its companion volumes in the series) has firmly established itself as an essential tool for any geologist -- student, professional or amateur -- faced with the task of making a general description of an area of metamorphic rocks. A clear, systematic framework together with numerous diagrams, illustrations and checklists enables readers to produce useful and broadly similar descriptions, despite possible differences of background or specialist interest. This well-written and well-produced little text will, I am certain, become standard reading for most geology undergraduates. It will also interest many geologists who do not regularly work in metamorphic terrains and will be particularly useful to engineering geologists and civil engineers who are often concerned with describing the fabrics of metamorphic

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rocks without being concerned about their origins." --M.E. Jones, Mineralogical Magazine Contents: * Metamorphic Fieldwork and Mapping * Names and Categories of Metamorphic Rocks and Rock Units * Rock Banding * Minerals * Compositions * Grade * Textures * Fabric Types * Relations to Structures * Undeformed Pods * Augen * Pseudomorphs * Veins * Igneous Contacts * Metasomatism * Reaction Zones * Fault-Zones and Mylonites * Reference Tables and Checklists

The Second Edition of this unique pocket field guide has been thoroughly revised and updated to include advances in physical volcanology, emplacement of magmas and interpreting structures and textures in igneous rocks. The book integrates new field based techniques (AMS and geophysical studies of pluton shape) with new topics on magma mixing and mingling, sill emplacement and magma sediment interaction. Part of the successful Field Guide series, this book includes revised sections on granitic and basaltic rocks and for the first time a new chapter on the engineering properties of igneous rocks. The Geological Field Guide Series is specifically designed for scientists and students to use in the field when information and resources may be more difficult to access. Many editions have been

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updated for 2011 and the guides are: Student-friendly in design and cost Durable Lightweight Pocket-sized Reliable Concise Visit the series homepage at www.wiley.com/go/geologicalfield

"Physical Geology is a comprehensive introductory text on the physical aspects of geology, including rocks and minerals, plate tectonics, earthquakes, volcanoes, glaciation, groundwater, streams, coasts, mass wasting, climate change, planetary geology and much more. It has a strong emphasis on examples from western Canada, especially British Columbia, and also includes a chapter devoted to the geological history of western Canada. The book is a collaboration of faculty from Earth Science departments at Universities and Colleges across British Columbia and elsewhere"--BCcampus website.

Introduction to Mineralogy and Petrology, Second Edition presents the essentials in an approach that is accessible to industry professionals, academic researchers and students. The book emphasizes the relationship between rocks and minerals, from the structures created during rock formation straight through to the economics of mineral deposits. While petrology is classified on the lines of geological evolution and rock

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formation, mineralogy speaks to physical and chemical properties, uses and global occurrences. The book's primary goal is for the reader to identify minerals in all respects, including host-rocks and mineral deposits, mineral-exploration, resources, extraction processes, and their further usage. To help provide a comprehensive analysis across ethical and socioeconomic dimensions, a separate chapter describes the hazards associated with minerals, rock and mineral industries, and the consequences to humanity that includes remedies and case studies. Addresses the full scope of core concepts of mineralogy and petrology, including crystal structure, formation and grouping of minerals and soils, definition, origin, structure and classification of igneous, sedimentary and metamorphic rocks Features more than 250 figures, illustrations and color photographs to vividly explore the fundamental principles of mineralogy and petrology Offers a holistic approach to both subjects, beginning with the formation of geologic structures that is followed by the hosting of mineral deposits and the exploration and extraction of lucrative, usable products that improve the health of global economies Includes new content on minerals and petrology in extraterrestrial environments and case studies on hazards in the mining industry

The understanding of Earth processes and

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environments over geological time is highly dependent upon both the experience that can only be gained through doing fieldwork, and the collection of reliable data and appropriate samples in the field. This textbook explains the main data gathering techniques used by geologists in the field and the reasons for these, with emphasis throughout on how to make effective field observations and record these in suitable formats. Equal weight is given to assembling field observations from igneous, metamorphic and sedimentary rock types. There are also substantial chapters on producing a field notebook, collecting structural information, recording fossil data and constructing geological maps. The volume is in a robust and handy size, with colour coded chapters for ease of use and quick reference in the field. Geological Field Techniques is designed for students, amateur enthusiasts and professionals who have a background in geology and wish to collect field data on rocks and geological features. Teaching aspects of this textbook include: step-by-step guides to essential practical skills such as using a compass-clinometer, making a geological map and drawing a field sketch; tricks of the trade, checklists, flow charts and short worked examples; over 200 illustrations of a wide range of field notes, maps and geological features; appendices with the commonly used rock description and classification diagrams; a supporting website

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