



Understanding Geology Through Maps

By Graham Borradaile

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Understanding Geology through Maps guides young professional geologists and students alike in understanding and interpreting the world's dynamic and varying geological landscapes through the liberal use of visual aids including figures, maps, and diagrams.

This highly visual reference introduces the skills of interpreting a geological map and relating it to the morphology of the most important types of geological structure. Thoroughly revised, and with more international examples, it is ideal for use by students with a minimum of tutorial supervision.

Maps of geological structures provide all of the realism of a survey map without the huge amount of data often present, so readers can develop or hone their skills without becoming overwhelmed or confused. In particular, emphasis is placed throughout on developing the skill of three-dimensional visualization so important to geologists.

- Authored by a master geologist with more than 40 years of experience in research and instruction
- Features more than 130 figures, diagrams, and illustrations?many in full color?to highlight major themes and aid in the retention of key concepts
- Leads to a broad understanding of Earth's geology through the use of real and theoretical map
- Exercises conclude each chapter, making it an ideal tool for self-guided and quick study

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Editorial Review

Review

"...Establishing relative and absolute dates for different geologic units is fundamental, so the author covers those topics in some detail,..."-*The Leading Edge*

About the Author

Dr. Graham Borradaile, BSc, PhD, DSc (University of Liverpool), is a professor of Geology at Lakehead University in Ontario, Canada. Graham's research and instruction experience spans 43 years and his research has been continuously funded by NSERC (Ottawa) since 1979 with occasional funding for specific projects from other research organizations (e.g. NATO, Province of Ontario, and commercial sources). Dr. Borradaile's research focuses on two sub-disciplines: magnetic properties of rocks and structural-tectonic geology. His rock magnetic laboratory occasionally tackles archaeological problems, including the nature of ancient paints and pigments, and the age-determination of stone buildings from their magnetization. The latter has involved studies in Cyprus, Israel and England and has been featured in Discovery Magazine, on Discovery Channel TV and on BBC TV (UK). Graham is also the author of more than 100 journal papers and his more recent book, *Statistics of Earth Science Data*, was published by Springer in 2003.

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