

1_README FIRST

E-BOOK - DYNAMIC GEOLOGY OF THE NORTHERN CORDILLERA AND ADJACENT MARINE AREAS

By Warren J. Nokleberg, E-Book Editor

Overview

This DVD contains the E-Book on the Dynamic Geology of the Northern Cordillera (Alaska and Western Canada) and Adjacent Marine Areas. The E-Book explains the geology, tectonics, hazards, and resources of this vast region at the Scientific American level. The E-Book is intended for general education students in college, persons who have taken a couple (or more) geology or earth science courses, high school and college earth science teachers, and professional earth scientists.

The E-Book has abundant Hot Links ([hyperlinks](#)) to Web sites and to chapters in the E-Book. Hot links to Web sites are in an underlined blue font, and Hot Links to other parts of the E-Book are in a red font. To understand these features, and to gain a general understanding of the E-Book, read the chapter on Introduction.

The E-Book is also available for free downloading from the Web at [ScholarWorks@UA](#). In both the DVD and Web cases, the E-Book is designed to be viewed on a computer monitor, laptop, or on a large screen via a computer projector.

Objective of the E-Book

The main objective of E-Book is to clearly describe, explain, and illustrate the nature, origin, and geological evolution of the amazing mountain system that extends through the Northern Cordillera (Alaska and Western Canada) and the intriguing geology of adjacent marine areas. Other objectives are to describe geological hazards (i.e., volcanic, seismic and slope stability hazards) and geological resources (i.e., mineral and fossil fuel), and to describe the scientific, economic, and social significance of the earth for this region.

A major aid to understanding the dynamic geology, hazards, and tectonics of the region is learning earth science terms. These words have Hot Links to [Wikipedia](#), the free encyclopedia, that provides excellent descriptions and definitions, and sometimes to other Web sites.

E-Book Contents

The chapters of the E-Book are:

Alaska Road Guides

Canada Road Guides

Earth Science Atlas

Geologic Sources of Energy

Geologic Sources of Minerals

How the Solid Earth Works

Introduction

Landscapes and Seascapes and Tectonics

Natural Hazards and Neotectonics

Marine Geology and Tectonics

Regional Geology and Tectonics

Slicing the Earth

Tectonic Evolution

How to Use the E-Book

Following are the major steps for using the E-Book.

1. Ensure that your computer has the below system requirements.
2. Read this entire Readme First file.
3. Click on a Folder, such as Introduction.
4. Click on a chapter text PDF file, such as Introduction.pdf.
5. Start reading.

6. As desired, click on an underlined red font word or phrase (a Hot Link to another part of the E-Book) to display a figure, table, or map in a separate window.

7. As desired, click on a underlined blue-font word or phrase (a Hot Link to an external Web site) to display Web-based information.

8. As desired, in order to quickly migrate to another part of the E-Book, click on a Bookmark in the left-hand pane of the PDF window.

Dynamic Versus Linear Use of E-Book

The E-Book is designed as an interactive vehicle to learn about the exciting dynamic geology of the region. Instead of reading page after page, or chapter after chapter, the E-Book is designed to encourage the user to dynamically jump to: (1) various topics in other parts of a chapter; (2) other parts of the E-Book; or (3) various Web sites. With these capabilities, the E-Book is a powerful vehicle that employs a new style of interactive learning. This method of learning is very analogous to modern learning on the Web. Also with these capabilities, the E-Book is a major advance in how to present natural science at the layperson through professional levels.

As a first step, reading this file and the chapter on Introduction is encouraged. Because the other chapters are designed as semi-independent parts of the E-Book, the chapters can be read or viewed in any order.

System Requirements

All the text and static graphics files that comprise the E-Book are in [Adobe Acrobat Reader](#) (Portable Document Format – PDF) (Version 8 or higher) format. To view the PDF files, at least version 8 of the free Adobe Acrobat Reader or similar software is required. The Adobe Acrobat Reader for various computer operating systems (Windows, Mac, and others) can be downloaded from the Web at: <http://get.adobe.com/reader/otherversions/>

Connection to the [Internet](#) is needed for viewing Hot Links to Web sites.

Installation of [Google Earth](#) is needed to view dynamic graphics images of either static images or fly-by tours across regions. To view these images, a recent version of Google Earth is needed. The Google Earth files are in [KMZ](#) format. Connection to the Internet is also needed for employing Google Earth.

Use of a computer with a monitor that can display two or more overlapping or separate windows is required.

Note: This DVD was produced in accordance with the ISO 9660 Level 2 Standard. The data, text, and figures require either a Windows compatible or Macintosh computer, both equipped with a DVD drive and a color monitor that can display 16.7 million colors.

Availability

The E-Book is published on this DVD with no copyright. Because of extensive use of Wikipedia, Google Earth, and other Web sites, the E-Book may not be sold by others for profit. The E-Book is a donation by the authors to the greater earth science community. Users are encouraged to give free copies of parts, or the entire E-Book to others. For a free DVD, send a message with your name and mailing address to Warren J. Nokleberg, E-Book Editor, at wnokleberg@usgs.gov.

The E-Book is also available on the Web for free downloading at the University of Alaska [Scholarworks@UA Web Site](mailto:Scholarworks@UA).

Questions for Authors

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