

OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
Dr. Vicki S. McConnell, State Geologist

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Oregon Geologic Data Compilation - Version 2 released

Portland, Oregon: The Oregon Department of Geology & Mineral Industries (DOGAMI) has finished the second phase of a multi-year project to make a new state geologic map and to compile the geologic data in a database form for the entire state. This effort brings together the best available geologic mapping and data from all published and unpublished sources: state and federal agencies, university thesis work, and other documents.

Creating geologic maps is commonly confused with surveying, and making road maps and topographic maps, which show hills, valleys, roads, and other natural and man-made features on the Earth's surface. Geologic maps, however, use a combination of colors, lines, and symbols to depict the composition, distribution and relationships of rocks and sediments at and near the Earth's surface. The maps also reveal the structure of the rocks below the Earth's surface by depicting faults and the orientation of the rocks. Understanding this third dimension is particularly important for the discovery and assessment of mineral and energy resources; the locations of geologic hazards such as landslides and faults; and the locations and types of resources such as sand and gravel, ore deposits, and ground water.

Compiled by Margaret D. Jenks, Clark A. Niewendorp, Mark L. Ferns, Ian P. Madin, Paul E. Staub, Lina Ma, and Ronald P. Geitgey of the Oregon Department of Geology and Mineral Industries (DOGAMI), Oregon Geologic Data Compilation - Version 2 (OGDC-2) is the second release of this geology database that now covers both Northeast and Southeast Oregon and will

eventually cover the entire state. This information is provided as spatial data for Geographic Information System (GIS) software and tabular data for use with Microsoft(tm) Access 2000 database software. Knowledge of and access to GIS and database software applications are essential to the use of this product. On the CD-ROM, a simple data viewer provides limited access without the specialty software, but to fully utilize the data, it's important to have a good working knowledge of GIS software. No printed maps are available from this product.

“Maps and data created by using OGDC-2 are tools that can be used in many different ways - from learning about the geologic history of an area, to natural resource and hazard assessment, to providing information for intelligent land-use planning and growth,” said Vicki S. McConnell, State Geologist and Director of DOGAMI.

Oregon Geologic Data Compilation - Version 2 (OGDC-2), is available on CD-ROM for \$25. It can be purchased from the Nature of the Northwest Information Center (NNW), 800 NE Oregon Street #5, Portland, Oregon, 97232. You may also call NNW at (503) 872-2750 or order online at <http://www.naturenw.org>. There is a \$3 shipping and handling charge for all mailed items. For additional information, please contact the Nature of the Northwest Information Center. Additionally, this item as well as all department maps can be purchased at DOGAMI Field Offices including 5375 Monument Drive, Grants Pass, (541) 476-2496 and 1510 Campbell Street, Baker City, (541) 523-3133.

“The compiling process that has gone into ODGC-2 brings us closer to having a complete geologic database for the whole state,” said McConnell. “DOGAMI is working in partnership with the U.S. Geological Survey (USGS STATEMAP program) and the Oregon Geographic Information Council (OGIC) under the Oregon Framework Project. Another goal of this project is to develop interactive, web based access to these maps and data.”

Oregon Geologic Data Compilation - on the internet:

A visual web interface to this OGDC data is presently being developed. Users will be able to view colored geologic unit polygons overlaid on topographic and hillshade images. Map zoom and pan controls along with an info-click function will allow users to view stratigraphy,

lithology, and rock property map types. Please check the Oregon Department of Geology and Mineral Industries website for the web link to this visual interface. The interface is planned to go online summer 2006.

For further information about OGDC-2, which includes the Southeast and Northeast Oregon Geologic Compilation data sets, please contact Paul Staub at (971) 673 -1548 for spatial data questions; and Clark Niewendorp at (971) 673-1540 for questions regarding the tabular database. For more information about the Oregon Geospatial Data Standards process followed by this work as well as detailed information about the Oregon Geologic Data Standard, visit the Oregon Framework website:

<http://www.gis.state.or.us/coord/FrameLayers/GeoFrame.html>

The Oregon Department of Geology and Mineral Industries is an independent agency of the State, and has a broad responsibility in developing a geologic understanding of natural hazards. We then make this information available to communities and individuals to help reduce the risks from earthquakes, tsunamis, landslides, floods and volcanic eruptions. We assist in the formulation of state policy where understanding of geologic materials, geologic resources, processes, and hazards are key to decision-making. The Department is also the lead state regulatory agency for mining, oil, gas and geothermal exploration, production and reclamation.

Learn more about Oregon's geology by going online at:

<http://www.oregongeology.com>

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