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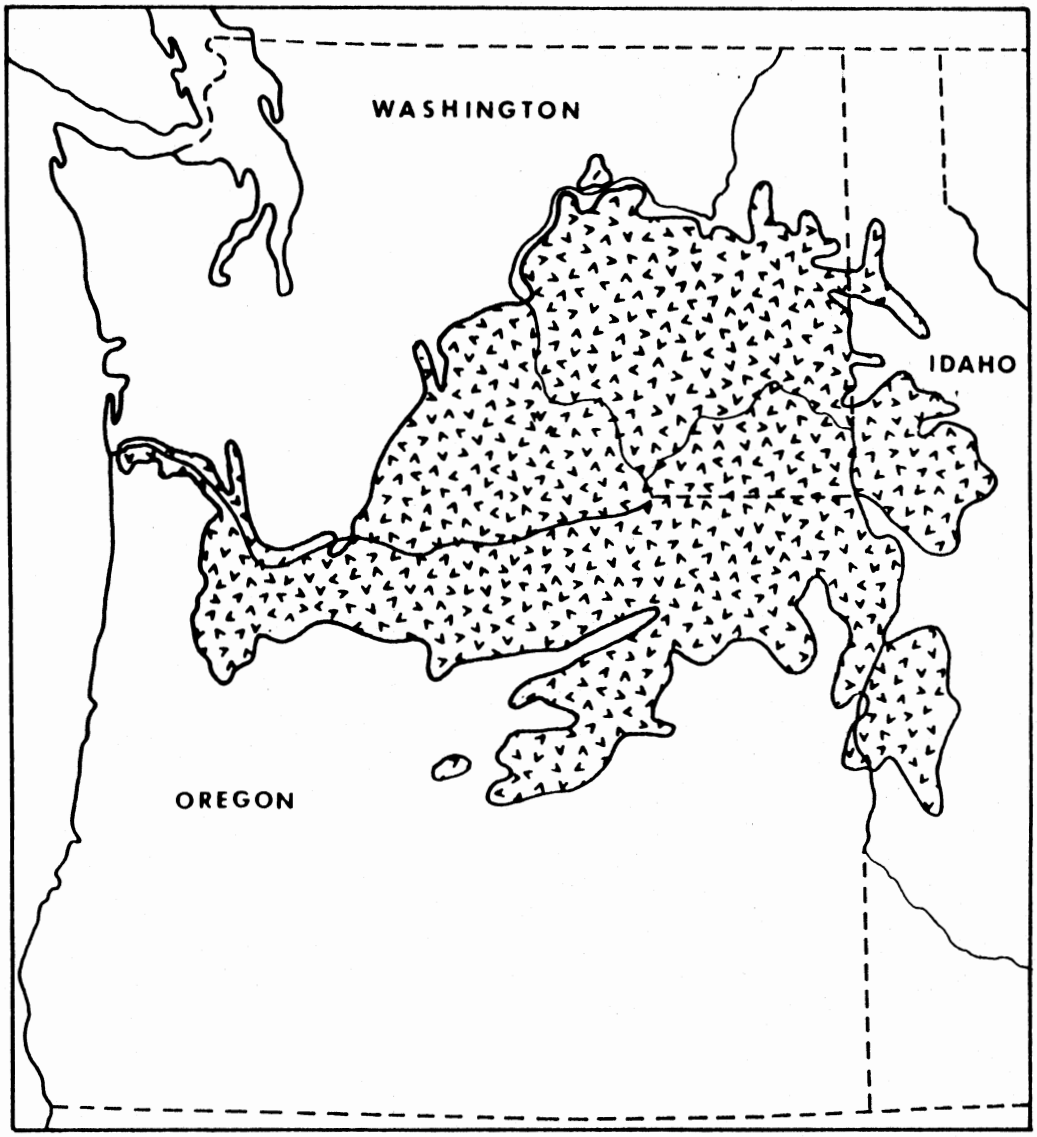
OPEN-FILE REPORT O-79-1

ANNOTATED BIBLIOGRAPHY OF THE GEOLOGY OF THE COLUMBIA PLATEAU (COLUMBIA RIVER BASALT) AND ADJACENT AREAS OF OREGON

By

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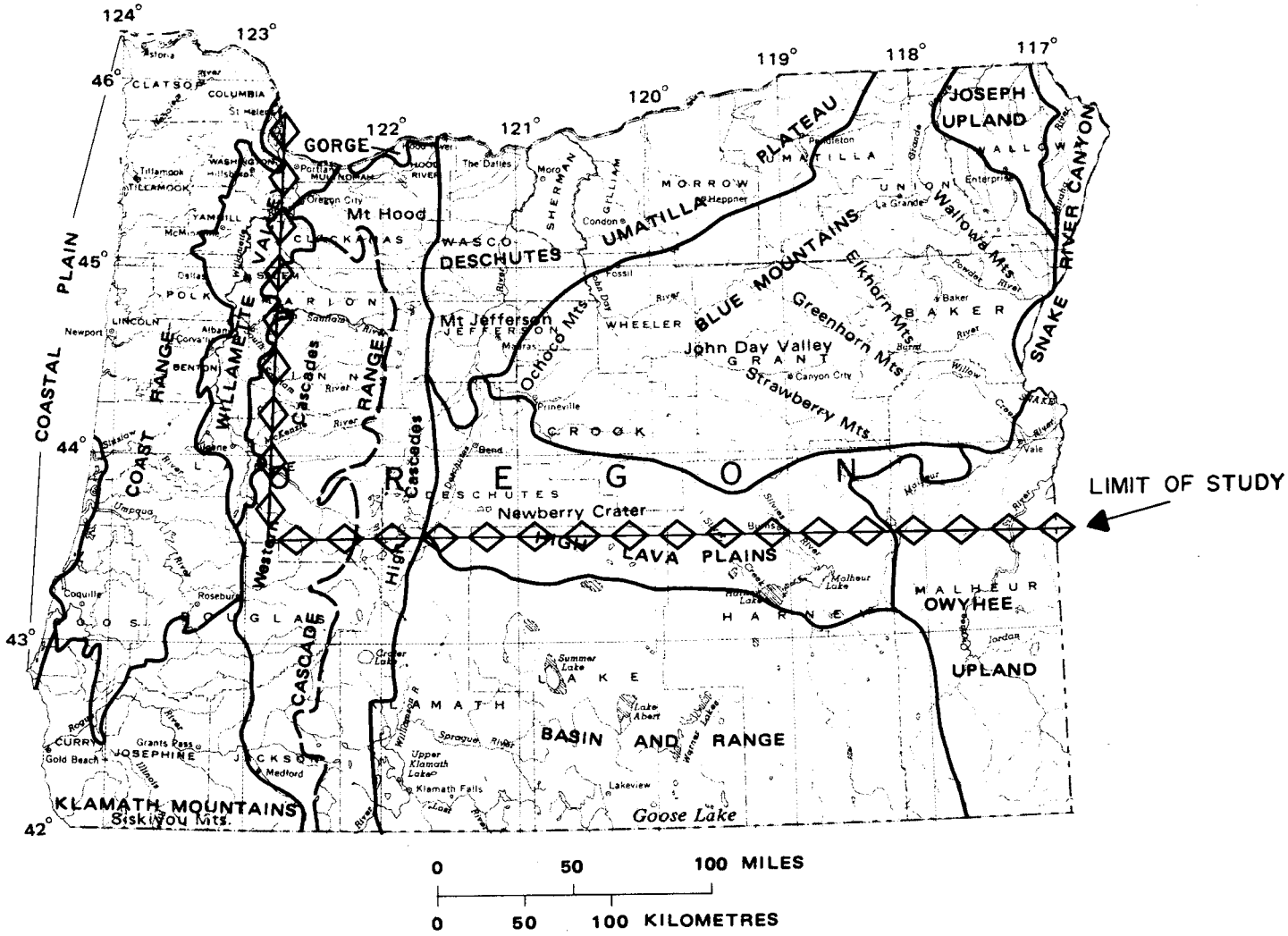


Figure 1. Area included in bibliographic search (northeast section of State), with geomorphic provinces of Oregon.

INTRODUCTION

This bibliography contains approximately 2000 entries and was prepared as Subcontract SA-913 by the Oregon Department of Geology and Mineral Industries in partial fulfillment of the provisions of Contract Number EY-77-C-06-1030 with the U.S. Department of Energy. The contract is being administered through Rockwell Hanford Operations (Rockwell), Richland, Washington, as part of their Basalt Waste Isolation Program. The objective of this program is to determine the feasibility of storing nuclear waste within the Columbia River Basalt Group. Under the Geologic portion of this program, the stratigraphic, structural, tectonic, seismic, and hydrologic aspects of the Columbia Plateau are being examined. Other aspects of the Basalt Waste Isolation Program are concerned with systems integration, engineered barriers, engineering testing, and construction of a near-surface test facility.

Similar compilation for a bibliography of geologic and related studies of the Columbia Plateau in Washington and Idaho have been completed by the Washington State Department of Natural Resources (1978) and the Idaho Bureau of Mines and Geology (1978) respectively. To minimize duplication of effort, our activities were coordinated with these agencies at the beginning of this project.

Comprehensive geologic information on the Pasco Basin is needed for a proper evaluation of that area for nuclear waste disposal purposes. Although the basin is located in southeastern Washington, many of the geologic issues are properly handled only with geologic information available in surrounding areas. Thus, basalt flows, Quaternary units, basement rocks, and structures which extend from the Pasco Basin into neighboring northeastern Oregon are properly addressed only if geologic information and features in Oregon are addressed as part of the overall investigation. Furthermore, the delineation of other potentially favorable geologic sites within the Columbia River Basalt Group (Washington, Oregon, Idaho) is a major goal of the geologic mapping programs presently underway.

The main functions of this bibliography are to (1) serve as a research tool for later work in Oregon, (2) aid in the identification of problem areas in Oregon in need of further study, (3) function as part of the data base for the Columbia Plateau, and (4) to function as a first step in the generation of various Oregon Index maps.

The area covered in this bibliography is shown in Figure 1, which also shows the geomorphic provinces of Oregon. It comprises that area north of 43° 30' Latitude, and east of the Willamette Meridian, which is located just west of Portland.

The listings and annotations were derived from thorough searches of the following sources: (a) BIBLIOGRAPHY OF THE GEOLOGY OF THE COLUMBIA BASIN AND SURROUNDING AREAS OF WASHINGTON WITH SELECTED REFERENCES TO COLUMBIA BASIN GEOLOGY OF IDAHO AND OREGON: Washington State Department of Natural Resources Division of Geology and Earth Resources Open File Report Of 78-3, 1978, by Glennda B. Tucker and

James G. Rigby; (b) BIBLIOGRAPHY OF THE GEOLOGY AND MINERAL RESOURCES OF OREGON (SIXTH SUPPLEMENT); JANUARY 1, 1971 to DECEMBER 31, 1975: Oregon Department of Geology and Mineral Industries Bulletin 97, 1978, compiled by GeoRef; (c) BIBLIOGRAPHY OF THE GEOLOGY AND MINERAL RESOURCES OF OREGON (FIFTH SUPPLEMENT); JANUARY 1, 1961 to DECEMBER 1, 1970: Oregon Department of Geology and Mineral Industries Bulletin 78, 1973; (d) Masters theses and doctoral dissertations available in the Library of the Oregon Department of Geology and Mineral Industries, Portland.

This bibliography includes all masters theses and doctoral dissertations within the study area from Oregon State University through Fall 1978, and most, but not quite all, masters theses and doctoral dissertations from the University of Oregon. The majority were skimmed during this study and their map scales included with the annotation entries.

Although limitations of time and funding prevented a more detailed search of all geologic literature since 1975, this material will be included in future supplements of BIBLIOGRAPHY OF THE GEOLOGY AND MINERAL RESOURCES OF OREGON. Additional references may be found by consulting the Georef search of Oregon Geology (April 14, 1978; 367 citations) requested by Sue Price, Rockwell Hanford Operations, Richland, Washington, and bibliographies of the U.S. Geological Survey, the Geological Society of America, and of other technical and scientific journals as named in this annotated bibliography.

BIBLIOGRAPHIC FORMAT

The bibliographic entries are presented in two forms. The first is an alphabetical listing from A to Z of all articles dealing with the geology of the Columbia Plateau (Columbia River Basalt) and adjacent areas of Oregon. Annotations are underlined, and they are comprised of Georef entries as listed in this Department's Bulletin 97, as well as brief, descriptive annotations developed during the search process from abstracts of theses and dissertations, GSA abstracts, and from abstracts of other professional articles.

The second form consists of an alphabetized listing of the entries subdivided under the categories listed below. Each category contains a listing of key words, which further define the content of listings placed within each category. The fourteen categories are also denoted by codes of two or three letters as shown. These codes appear beneath entries listed by categories. They show the other categories where the same entry is also listed.

As a general rule, listings were given no more than three codes or cross-references. Some articles, particularly theses and dissertations, deal with more than three of the categories. In some cases these are all listed, but in most cases the codes and cross-referencing are limited to the three most apparent or significant aspects of each entry. In most cases category designation was done from title only, but theses and dissertations available in the Department's Portland Library were examined first-hand. Bulletins 97 and 78 contain indexes, which were used where possible to define the most significant category.

Additional information on geomorphic province, topic, and source of information are also shown by one and three letter codes. These codes appear to the right of the two and three letter codes denoting categories. They are an effective aid to the optimum use of this bibliography.

CATEGORIES

PRE-PLATEAU-BASALT GEOLOGY - PBG

Key Words: Earth's crust; Ophiolites; Pre-Tertiary; Snake River Canyon; Wallowa Mountains.

GENERAL GEOLOGY OF AREAS MARGINAL TO THE COLUMBIA PLATEAU IN OREGON -GGM

Key Words: Blue Mountains; Cenozoic history; Columbia Basin; Columbia Gorge; Columbia Plateau; Engineering geology; Idaho; Missoula Flood(s); Olympic-Wallowa Lineament; Oregon (state-wide); Pacific Northwest; Snake River Canyon; Wallowa Mountains; Washington; Western U.S. Cordillera; also General articles under other topical categories (see key words under categories).

BASALT STRATIGRAPHY - BS

Key Words: Basalt flows; Columbia River Basalt; Engineering geology; Geology of . . . ; Picture Gorge Basalt; Yakima Basalt; Snake River Canyon.

BASALT LABORATORY STUDIES - BLS

Key Words: Age Dating; Argon Dating; Chemical studies; Correlation; Obsidian hydration studies; Petrography; Petrology.

POST PLATEAU BASALT GEOLOGY - PTS

Key Words: Active faults; Cascade Mountains; Columbia Gorge; Columbia River; Glaciation; Mazama ash; Missoula Flood(s); Palynology; Pleistocene; Quaternary; Radiocarbon dating; Tephra chronology; Volcanoes (Cascades, High Lava Plains, other provinces); Volcanic hazards.

GEOLOGIC MAPPING - GM

Key Words: Aeromagnetic maps.

STRUCTURAL GEOLOGY -SAG

Key Words: Caldera; Fault; Geology of . . . ; Olympic-Wallowa Lineament; Sill; Stock.

SEISMICITY AND TECTONICS - SAT

Key Words: Dike emplacement; Intrusions; Isostatic; Magma; Olympic-Wallowa Lineament; Plate tectonics; Rift system; Sea floor spreading; Volcanic Hazards; Volcanism.

GEOPHYSICAL STUDIES - GPS

Key Words: Aeroradioactivity; Epicenter; Geophysics (journal articles); Gravity; Heat Flow; Magnetic; Paleomagnetism; Seismic; Thermal debt.

REMOTE SENSING STUDIES - RSS

Key Words: Lineaments.

HYDROLOGIC STUDIES HYD

Key Words: Columbia Basin projects; Dam sites; Ground Water; Reservoirs; U.S.G.S. Water Supply Papers.

TEST WELLS - TTW

Key Words: Geothermal; Oil and Gas studies.

PALEONTOLOGICAL AND ARCHAEOLOGICAL FINDINGS - PAF

Key Words: Clarno Formation; John Day Formation; Paleobotany; Paleoecology; Palynology (pollen).

MINERAL RESOURCES - MRS

Key Words: Coal; Diatomites; Gems; Iron; Limestone; Manganese; Molybdenum; Oil and Gas; Nickel; Uranium; Zeolites; and other resources.

ADDITIONAL INFORMATION

GEOMORPHIC PROVINCES

D - Deschuttes-Umatilla Plateau

C - Cascades (includes Western Cascades and High Cascades)

B - Blue Mountains (includes Joseph Upland)

S - Snake River Canyon

G - Columbia River Gorge

TOPIC, SOURCE OF INFORMATION

YAK - Yakima Basalt

PGB - Picture Gorge Basalt

(Yakima Basalt (YAK) is the younger, and Picture Gorge Basalt (PGB) the older of the two-fold division of Columbia River Basalt proposed by Waters (1961). The Deschuttes-Umatilla Plateau consists mostly of northerly dipping flows of Yakima Basalt. The basalt stratigraphy of the Columbia River Plateau has recently been revised by the U.S. Geological Survey (Swanson and others, in press), dividing the Group into five formations. The oldest two (lower Miocene) are the Imhaha and Picture Gorge Basalt, which are restricted to the southeastern and southern portions of the Plateau. The Grande Ronde Basalt, Wanapum Basalt, and the Saddle Mountains Basalt are grouped together as the Yakima Basalt Subgroup. All Columbia River Basalt flows west of the axis of the Cascade Mountains belong to this Subgroup.)

MFD - Missoula Flood(s)

OWL - Olympic-Wallowa Lineament

SSS - Symposium

FTP - Field Trip

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Key Words: Blue Mountains; Cenozoic history; Columbia Basin; Columbia Gorge; Columbia Plateau; Engineering geology; Idaho; Missoula Flood(s); Olympic-Wallowa Lineament; Oregon (state-wide); Pacific Northwest; Snake River Canyon; Wallowa Mountains; Washington; Western U.S. Cordillera; also General articles under other topical categories (see key words under categories).

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POST PLATEAU BASALT GEOLOGY - PTS

Key Words: Active faults; Cascade Mountains; Columbia Gorge; Columbia River; Glaciation; Mazama ash; Missoula Flood(s); Palynology; Pleistocene; Quaternary; Radiocarbon dating; Tephra chronology; Volcanoes (Cascades, High Lava Plains, other provinces); Volcanic hazards.

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