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# RADIOMETRIC AGE INFORMATION LAYER FOR OREGON, RELEASE 1 (RAILO-1)

2013

## DIGITAL DATA SERIES

Radiometric Age Information Layer for Oregon, Release 1  
(RAILO-1)

compiled by Tracy R. Ricker and Clark A. Niewendorp

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### PLATE 1

#### NOTICE

This map cannot serve as a substitute for site-specific investigations by qualified practitioners.  
Site-specific data may give results that differ from those shown on the map.  
The views and conclusions contained in this document are those of the authors.

#### PROJECT DESCRIPTION

This map depicts the Radiometric Age Information Layer for Oregon, release 1 (RAILO-1) and shows locations and geologic ages of igneous and metamorphic rock samples. RAILO-1 is a compilation of 2,325 radiometric ages from published and unpublished reports by the Oregon Department of Geology and Mineral Industries (DOGAMI), along with additional data compiled from other sources such as the U.S. Geological Survey (USGS) and the journal *Isotopes from West*. The compiled ages range from 0.0005 million years to 291 million years.

RAILO-1 is provided in Microsoft® Excel® spreadsheet and Geographic Information System (GIS) geospatial database formats. The location of each data point shown in this map was not necessarily verified; refer to the original data source for additional information about location and location uncertainty. Duplicate points were removed when found. This map also includes a list of data sources (references) from which the age information was gathered.

#### DATA ACCESS

These data are provided "as is" without warranty of any kind, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The user assumes all responsibility for the accuracy and suitability of these data for a specific application. In no event will DOGAMI be liable for any damages, including lost profits, lost savings, or other incidental or consequential damages arising from the use or inability to use the data.

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#### MAP AGE EXPLANATION

| Map Symbol | Period Name | Age Name    | Millions of Years |
|------------|-------------|-------------|-------------------|
|            | Quaternary  | Holocene    | 0.01              |
|            |             | Pleistocene | 2.6               |
|            |             | Pliocene    | 5.3               |
|            |             | Miocene     | 23.0              |
|            | Tertiary    | Oligocene   | 33.9              |
|            |             | Eocene      | 55.8              |
|            |             | Paleocene   | 65.5              |
|            | Cretaceous  |             | 145.5             |
|            | Jurassic    |             | 201.6             |
|            | Triassic    |             | 251.0             |
|            | Permian     |             | 299.0             |

Time scale after Walker and Gassman (2009).

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Units: International Feet  
Central Meridian: -121.00  
Standard Parallel 1: 43.00  
Standard Parallel 2: 45.00  
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Datum: North American 1983

#### MAP SYMBOLS

- United States Highway  
 Oregon State Highway  
 Interstate Freeway  
 Counties  
 Cities

SCALE 1:1,000,000  
0 25 50 75 100 MILES  
0 25 50 75 100 KILOMETERS