

## Oregon Department of Geology and Mineral Industries, Lidar Data Quadrangle Series

\*\*\*\*\*

### AVAILABILITY

This publication is issued by the Oregon Department of Geology and Mineral Industries. It is available from:

The Nature of the Northwest Information Center

800 NE Oregon Street #28, Suite 965

Portland, OR 97232-2162

Telephone (971) 673-1555

Fax (971) 673-1562

Web: <http://www.naturenw.org>

\*\*\*\*\*

### ORDERING INSTRUCTIONS

Ordering Instructions: Contact Nature of the Northwest Information Center or field offices by e-mail, phone, or letter explaining what products are needed. All DOGAMI publications, both in and out of print, are available for inspection at the Department's offices (most reports "on file" are in the Portland office only) and at many state-document depository libraries in Oregon, including most Oregon college and university libraries.

Digital Form: Fee \$200 for DVD

\*\*\*\*\*

### DISCLAIMER

No warranty, expressed or implied, is made regarding the accuracy or utility of the data described and/or contained herein, nor shall the act of distribution constitute any such warranty. This disclaimer applies both to individual use of the data and aggregate use with other data. The Oregon Department of Geology and Mineral Industries shall not be held liable for improper or incorrect use of these data. The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U.S. government.

\*\*\*\*\*

### AUTHORSHIP

Title and authorship:

Oregon Department of Geology and Mineral Industries Lidar Data Quadrangle Series

Data were acquired through the Oregon Department of Geology and Mineral Industries  
800 NE Oregon St. #28 Suite #965, Portland, OR 97232.

\*\*\*\*\*

### CONTENTS

Apart from this README file, the contents of the CD are:

- "Bare\_Earth" – Contains grid and info folders associated with ESRI digital elevation models of bare earth lidar data. Metadata for all data are embedded in grid folders as ESRI FGDC metadata in xml format.

- "Highest\_Hit" – Contains grid and info folders associated with ESRI digital elevation models of bare earth lidar data. Metadata for all data are embedded in grid folders as ESRI FGDC metadata in xml format. Highest hit lidar coverage is not included with the 2004 Oregon City data set.

Highest hit digital elevation models (DEMs) were created by DOGAMI for the 2004 Portland Pilot Lidar project using all-returns ASCII lidar point data provided by the Puget Sound Lidar Consortium data download website (<http://pugetsoundlidar.ess.washington.edu/lidardata/index.html>). The resulting DEMs contain a small percentage of values that are incorrect due to incomplete or flawed lidar point data, and DOGAMI makes no claim for the accuracy of these DEMs. Data flaws have been observed as unrealistically low or high elevations within or near water bodies. These data flaws are found only in the highest hit DEMs and are not known to occur in the 2004 Portland Pilot bare earth DEMs.

- "Intensity" - Contains geoTIFF files associated with intensity images derived from highest hit lidar returns. Metadata for all data are embedded in TIFF header as ESRI FGDC metadata in xml format. Intensity geoTIFFs are limited to 2007 lidar coverages.

- "Metadata\_XML" - XML formatted metadata files listing FGDC metadata for each lidar dataset organized.

- "Shapefiles" – ESRI format geometry files of 7.5 minute USGS quadrangles of Oregon, 1/100th USGS quadrangles of Oregon, Portland Pilot 2004 lidar coverage, Columbia River/Portland Hills 2005 lidar coverage, PDX/Mt.Hood 2007 lidar coverage.

- "about-LDQ-poster-8-5x11.pdf" – PDF document contains explanation of USGS tiling schemes associated with lidar data as well general information concerning lidar data.

- "Lidar\_Series\_Status\_Index\_Map" - PDF document showing published DOGAMI lidar series publications.

To view PDF text files:

The text files are in Adobe Acrobat portable document format (.pdf). A free Adobe Acrobat Reader can be obtained from Adobe Systems Inc., San Jose, CA: <http://www.adobe.com>

To view data files:

All data are format specific to ESRI format. Data must be viewed using specialty software capable of viewing .shp, geotif, and ESRI grid formats.

Note: Map file projection parameters can be found in the embedded XML metadata for each grid folder file.

Note: Lidar ascii point data are available in LAS format via the NOAA Coastal Services LDART website: <http://maps.csc.noaa.gov/TCM>

\*\*\*\*\*

## FUNDING

These data and data products were collected in whole or part through funding arrangements provided by Grants, Cooperative Agreements, Purchase Orders and Intergovernmental and Interagency Agreements between DOGAMI and the Bureau of Land Management, United States Geological Survey, Federal Emergency Management Agency, USDA Forest Service, Environmental Protection Agency, US Army Corps of Engineers, USDA National Resources and Conservation Service, Bureau of Reclamation, and Oregon Departments of Transportation, Forestry, Parks and Recreation, Land Conservation and Development, and Administrative Services, the Oregon Watershed Enhancement Board (using Measure 66 Lottery Funds consistent with the

purposes of the Oregon Plan for Salmon and Watersheds), Lincoln, Clackamas, Lane, Polk, Marion, Linn, Hood River, Benton, Malheur, and Columbia Counties, the Cities of Portland, Eugene, Salem, Lincoln City, Springfield, Hood River, Medford, Philomath, Silverton, Yachats, and Turner, Malheur Soil and Water Conservation District, Northwest Oregon Economic Alliance, Lane Council of Governments, Clean Water Services, and Portland METRO, and Eugene Water and Electric and Northwest Natural, and the Confederated Tribes of Coquille and Siletz Indians.