OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

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New landslide maps for Portland metro region reveal thousands of slides

Portland, Oregon: The Oregon Department of Geology and Mineral Industries (DOGAMI) has released 17 new landslide inventory maps that show over 8,000 landslides in the Portland area from east of Troutdale to Cornelius and from Sauvie Island to Wilsonville.

Using a laser-based mapping technique called lidar, DOGAMI was able to quickly and accurately map landslide extents and characteristics over 83 square miles of terrain in just 7 years—a magnitude faster than could be done using older mapping techniques. These maps are among the results of a collaborative partnership with city and county departments, State agencies, and the U.S. Geological Survey to reduce landslide risk.

IMS-37, Scholls quadrangle IMS-38, Sandy quadrangle IMS-39, Forest Grove quadrangle IMS-40, Sauvie Island quadrangle IMS-41, Mount Tabor quadrangle IMS-42, Washougal quadrangle IMS-43, Camas quadrangle IMS-44, Dixie Mountain quadrangle IMS-45, Vancouver quadrangle IMS-46, Gales Creek quadrangle IMS-47, Hillsboro quadrangle IMS-48, Gladstone quadrangle IMS-49, Damascus quadrangle IMS-50, Sherwood quadrangle IMS-51, Redland quadrangle IMS-52, Estacada quadrangle



Example of detailed landslide mapping on IMS-38, NE quarter of the Sandy quadrangle. EFL is earth flow.

Publications IMS-37 through IMS-52 each consist of four 1:8,000-scale quarterquadrangle plates in PDF format, GIS landslide data in an Esri-format geodatabase, DOGAMI Special Paper 42, Protocol for Inventory Mapping of Landslide Deposits from Light Detection and Ranging (Lidar) Imagery, and two DOGAMI landslide factsheets. DOGAMI's mission is to provide earth science information and regulation to make Oregon safe and prosperous.

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IMS-53, Inventory of landslide deposits from light detection and ranging (lidar) imagery of the Portland metropolitan region, Oregon and Washington, scale 1:63,360. PDF plate size: 54 x 43 inches. This publication shows on one map plate generalized data from the 16 quadrangles named above as well as six previously released quadrangles.

IMS-29, Canby quadrangle IMS-30, Oregon City quadrangle IMS-32, Lake Oswego quadrangle IMS-33, Portland quadrangle IMS-34, Beaverton quadrangle IMS-35, Linnton quadrangle

DOGAMI Special Paper 42 and two DOGAMI landslide factsheets are also included with this publication.



IMS-53 map plate. Red indicates landslides mapped in the Portland area.

To preview all these publications, visit: http://www.oregongeology.org/pubs/ims/p-ims-053.htm

These IMS publications can be purchased on CD-ROM for \$15 each. These and other DOGAMI publications can be purchased from the Nature of the Northwest Information Center (NNW), 800 NE Oregon Street, Suite 965, Portland, Oregon, 97232. You may also call NNW at (971) 673-2331 or order online at *http://www.naturenw.org*. There is a \$4.95 shipping and handling charge for all mailed items. Color plots of maps plates are also available for purchase.

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page 2 of 3

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The Oregon Department of Geology and Mineral Industries is an independent agency of the State and has a broad responsibility in developing an understanding of the state's geologic resources and natural hazards. The Department then makes this information available to communities and individuals to help inform and reduce the risks from natural hazards, such as earthquakes, tsunamis, landslides, floods and volcanic eruptions. The Department assists in the formulation of state policy where an understanding of geologic materials, geologic resources, processes, and hazards is 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 online: <u>http://www.OregonGeology.org</u>

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page 3 of 3