

OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

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New study uses lidar to characterize shoreline change in Clatsop and Tillamook Counties

Portland, Oregon: The Oregon Department of Geology and Mineral Industries (DOGAMI) has developed a new coastal geomorphic database that describes morphological parameters of beaches, dunes, and bluffs along the central to northern Oregon coast, specifically in Clatsop and Tillamook Counties.

The study, released as **DOGAMI Open-File Report O-12-08, An "Expanded" Geospatial Database of Beach and Bluff Morphology Determined from Lidar Data Collected on the Northern Oregon Coast: Tillamook and Clatsop Counties**, was funded by the Ocean Coastal Management Program (OCMP) of the Oregon Department of Land Conservation and Development (DLCD).

The completed product includes a variety of geospatial data layers including transect locations; site-specific information on the slope of the beach, dune, or bluff crest; coastal change information for selected years; and visual products that synthesize several of the identified parameters to enable easy access to information. The data may be used to assess the response of beaches in Clatsop and Tillamook Counties to specific periods when major weather events occurred (for example, the 1997-1998 El Niño and the extreme 1998-1999 winters) at individual locations or for entire sections of the coast.

To preview this publication, visit: <http://www.oregongeology.org/pubs/ofr/p-O-12-08.htm>

DOGAMI Open-File Report O-12-08 can be purchased on CD-ROM for \$15 each 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.

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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: <http://www.OregonGeology.org>

DOGAMI's mission is to provide earth science information and regulation to make Oregon safe and prosperous.

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