OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
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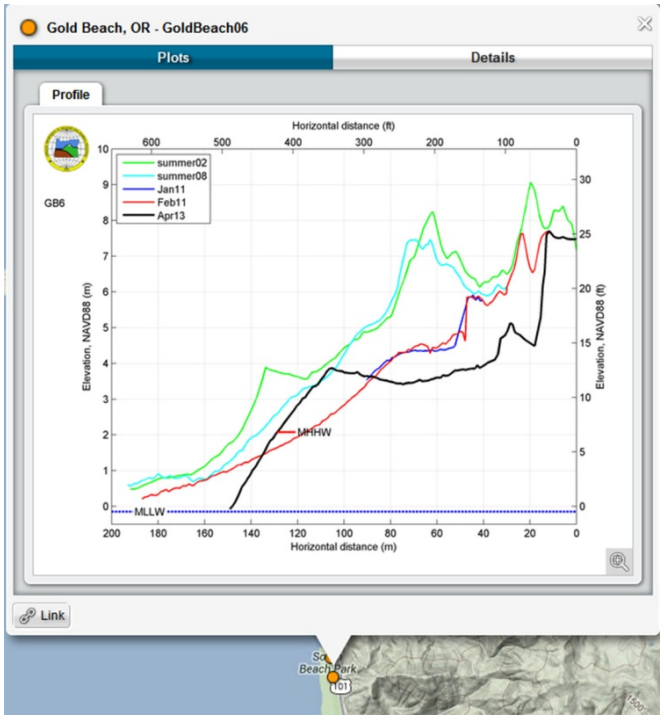
Oregon shoreline mapping program expanded

New beach observation sites at Gold Beach, Rogue Shores, Nesika Beach, and Netarts record erosion rates

Portland, Oregon: The Oregon Department of Geology and Mineral Industries (DOGAMI) has released **Open-File Report O-13-07, Oregon Beach Shoreline Mapping and Analysis Program: Quantifying Short- to Long-Term Beach and Shoreline Changes in the Gold Beach, Nesika Beach, and Netarts Littoral Cells, Curry and Tillamook Counties, Oregon,** by Jonathan C. Allan and Laura L. Stimely.

Over the past century the Oregon coast has undergone several periods of major coastal erosion in which the mean shoreline position moved landward, encroaching on homes built atop dunes and coastal bluffs and sometimes even destroying homes.

To understand the effects (erosion or accretion) of storms, particularly during major El Niños, and to improve our understanding of long-term coastal change due to sea level rise and climate change, staff from the Newport Coastal Field Office of the Oregon Department of Geology and Mineral Industries (DOGAMI), maintain the Oregon Beach and Shoreline Mapping Analysis Program (OBSMAP) to document the spatial variability of beach change at various time-scales (i.e. seasonal, multi-year and long-term changes). The purpose of this work is to provide high-quality scientific information of the changing face of the Oregon coast, which can meet the needs of coastal managers, city and county planners, the geotechnical community, and the public-at-large.



Changes in shoreline elevation over time (summer 2002 to April 2013) at the Gold Beach 6 site. The black line shows the most recent elevation profile. Monitoring information for all Oregon sites is available on the NANOOS Beach and Shoreline Changes website.

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

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Open-File Report O-13-07 describes the results of an expansion to the OBSMAP program, which now includes new GPS and lidar observational data derived for three areas on the southern Oregon coast (Gold Beach, Rogue Shores, and Nesika Beach) and one new network on the northern Oregon coast along the Netarts littoral cell in Tillamook County.

The development of OBSMAP has been achieved through collaborative efforts as part of the development of the Northwest Association of Networked Ocean Observing System (NANOOS), Coastal Management Program (OCMP) of the Oregon Department of Land Conservation and Development, the Oregon Parks and Recreation Department (OPRD), the Washington Department of Ecology, and Oregon State University. Funding for the O-13-07 report was provided by the Oregon Department of Land Conservation and Development (DLCD) through its Coastal Management Program (#PS09005).

To read the executive summary from the 47-page report, visit:
http://www.oregongeology.org/pubs/ofr/p-O-13-07.htm

DOGAMI Open-File Report O-13-07 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 at www.OregonGeology.org.

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