

OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

Vicki S. McConnell, State Geologist

The mission of the Oregon Department of Geology and Mineral Industries is to provide earth science information and regulation to make Oregon safe and prosperous.

NEWS RELEASE: November 18, 2009

New lidar data series for southern Oregon coast released

Portland, Oregon: A new geologic digital data series for the southern Oregon coast is being released today by the Oregon Department of Geology and Mineral Industries (DOGAMI).

The Lidar Data Quadrangle Series (LDQ)

This release in the LDQ series (data only) covers both individual and bundled USGS quadrangles along the coast from Brookings to Florence and huge swaths of inland coastal areas. This data is part of a data publication series that will eventually provide complete lidar data for most of the inhabited areas of the state.

Please refer to the attached map for details or go online to see a list of the USGS quads and data available at: <http://www.oregongeology.org>

The data in the LDQ series however, are designed specifically for use with specialty Geographic Information Systems (GIS) software and include only raster based data. In other words, a file with a regular grid of elevation values. Lidar data originate as large numbers of measured points which have been filtered and processed to produce the rasters in the LDQs. The point data (point cloud) requires special software and expertise to use, and creates very large files, so it is not included in this publication series.

The contents of each DVD include:

“Bare Earth data” – 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.

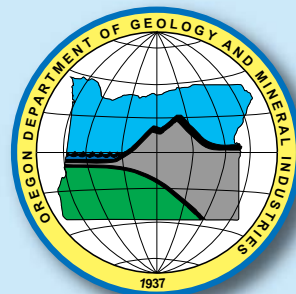
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"Highest Hit" data – Contains grid and info folders associated with ESRI digital elevation models of bare earth lidar data. Metadata for all data are embedded in grid folders as ESRI FGDC metadata in xml format.

"Intensity" data – 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. Some intensity files have been compressed using .zip format.

"Metadata XML" – XML formatted metadata files listing FGDC metadata for lidar dataset. Lidar contractor's data report is included.

"Shapefiles" – ESRI format geometry files of 7.5 minute USGS quadrangles of Oregon, 1/100th USGS quadrangles of Oregon, as well as South Coast specific 7.5 minute and 1/100th USGS quadrangles.

"About-LDQ-poster-11x17in.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.

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

Note: Data projection information can be located within embedded raster metadata file (.prj). Future LDQ releases will cover the remainder of the Portland urban area, the Willamette Valley and Medford urban areas, the entire Oregon coast, and numerous other areas around the state. Efforts to collect more lidar data are underway in other parts of the state as well, including the Klamath, Deschutes and Umatilla Basins. You can learn more about the collection of lidar data in Oregon and the Oregon Lidar Consortium online at:

<http://www.oregongeology.com/sub/projects/olc/default.htm>

The price for each LDQ series DVD (data only) is \$200.

How to order

All LDQ series digital publications can be purchased from the Nature of the Northwest Information Center (NNW), 800 NE Oregon Street, Suite 177, Portland, Oregon, 97232. You may also call NNW at (503) 872-2750 or order online at <http://www.naturenw.org>. There is a \$4 shipping and handling charge for all mailed items.

Learn more about Oregon's geology by going online at:

<http://www.oregongeology.org>

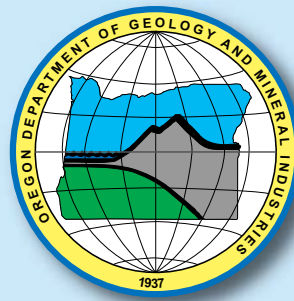
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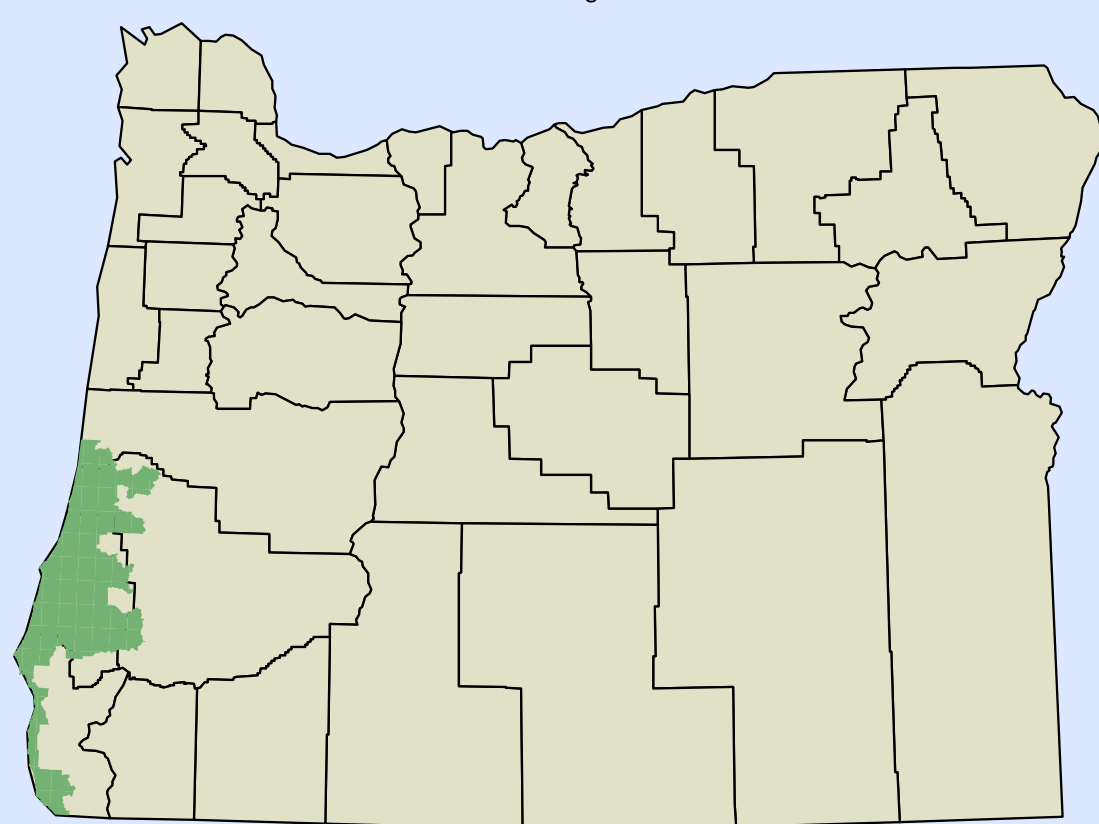
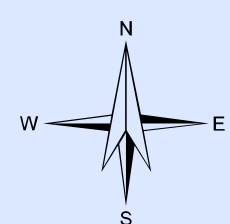
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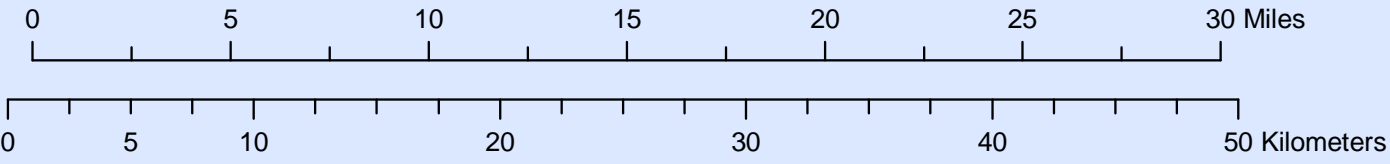
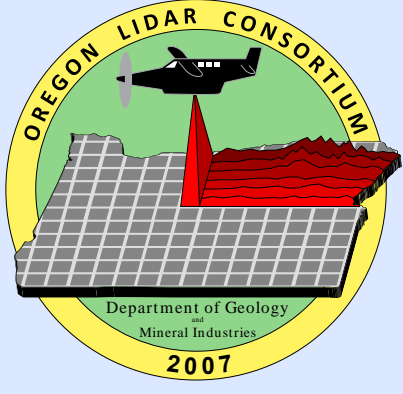
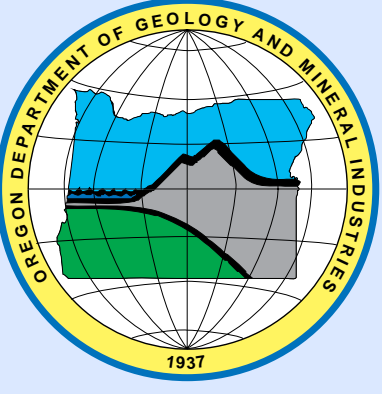
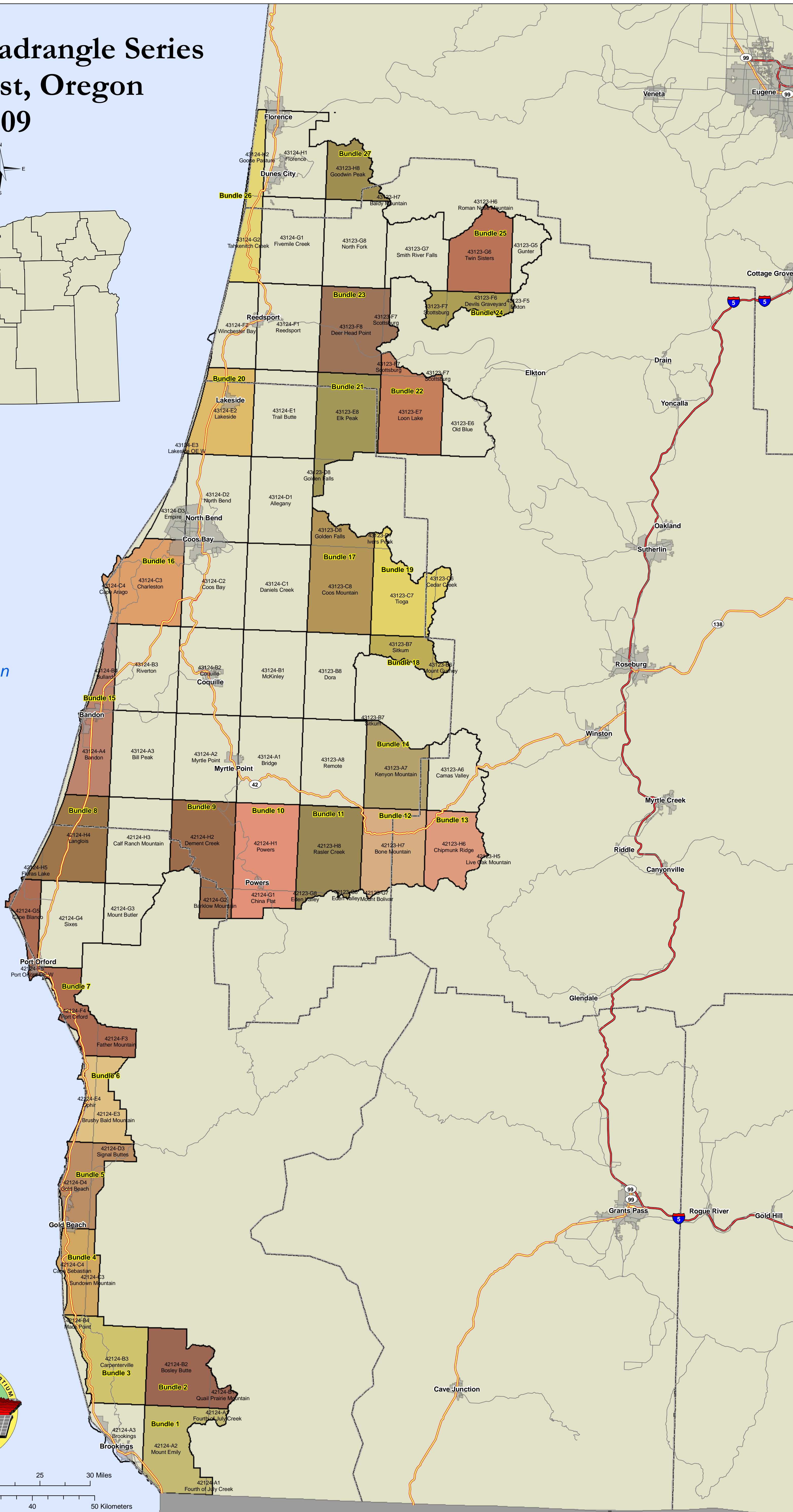
Lidar Data Quadrangle Series

South Coast, Oregon

2009



Pacific Ocean



Some Lidar Data Quadrangles have been bundled to include adjacent data quadrangles. These bundled data regions are indicated by color coding. Each Lidar Data quadrangle package is defined by bold black outline.