

# Geology and Earth Processes of the East Cascades Ecoregion



Oregon State University  
Extension Service  
Master Naturalist

## Additional Resources from Carrie Gordon

- [Cenozoic Paleoclimate on the Land in North America](#) (Journal of Geology, Retallack, 2007)
- [Geologic Map of Upper Eocene to Holocene Volcanic Rocks of the Cascade Range, Oregon](#) (USDI-USGS)

### **Here are some links provided by class participants:**

#### **Newberry Volcano—Central Oregon’s Sleeping Giant (PDF)**

<http://pubs.usgs.gov/fs/2011/3145/fs2011-3145.pdf>

#### **Geologic Map of Newberry Volcano (PDF)**

<http://pubs.usgs.gov/imap/2455/>

#### **Roadside Geology of Oregon, 2nd Ed. 2014. by Marli Miller**

<https://www.amazon.com/Roadside-Geology-Oregon-Marli-Miller/dp/0878426310>

#### **Central Washington University’s Nick Zetner and his videos on geology**

<http://hugefloods.com/2-Minute-Geology.html> & <http://www.geology.cwu.edu/facstaff/nick/zetner.html>

& [https://www.youtube.com/playlist?list=PLCKUIuDhdLI92gfymRabwCv8U9Sgh\\_B5R](https://www.youtube.com/playlist?list=PLCKUIuDhdLI92gfymRabwCv8U9Sgh_B5R)

#### **Quaternary Geology and Geomorphology of the Lower Deschutes River Canyon, Oregon (O’Connor et.al, 2003)**

[http://www.fsl.orst.edu/wpg/pubs/OConnor\\_Paper.02.pdf](http://www.fsl.orst.edu/wpg/pubs/OConnor_Paper.02.pdf)

#### Printed Resources

- [Earth Science Literacy Brochure](#)
- [Geology of Silver Falls State Park](#)
- [Linking Middle School Teachers to EarthScope](#)
- [Portland Geology Self-Guide Field Trip](#)

#### **Interpreting Geology to the Public**

- [What is Science](#)
- [Interpreting Geology](#)
- [Interpreting Geological Time and the Age of the Earth](#)
- [National Association for Interpretation - PAIRing \(Legacy, 2010\)](#)
- [National Association for Interpretation - Interpreting Geology \(Legacy, 2011\)](#)
- [National Park Service Policy - Interpretation and Creationism](#)
- [Food For Thought - Some comments and observations on science, religion, interpretation, and life](#)

#### Videos

- [Convergent Boundary](#)
- [Pacific & North American Plate Movement](#)
- [Pacific Plate Movement History](#)
- [Subduction Zone Elastic Rebound](#)
- [Subduction Zone GPS Evidence](#)

- [Cascadia Megathrust](#)
- [Orphan Tsunami](#)
- [Pillow Lava](#)

#### Online Resources

#### Geology of Oregon:

- <http://www.oregongeology.org/sub/publications/ims/ims-028/index.htm>
- <http://www.ohs.org/museum/exhibits/oregon-150-years-of-statehood-150-million-years-in-the-making.cfm>
- <http://www.oregongeology.org/sub/default.htm>
- <http://geology.about.com/od/maps/ig/stategeomaps/ORgeomap.htm>

#### Columbia River Basalt Eruptions:

<http://cascadiablog.com/2011/10/04/hawaiian-fissure-eruptions-then-now>

#### Cascadia Megathrust Earthquake:

- <http://www.pnsn.org/>
- [http://theworldlink.com/news/local/study-warns-the-big-one-isnearing/article\\_92113ee6-f5a4-510c-b16f-13c7ac9aab72.html](http://theworldlink.com/news/local/study-warns-the-big-one-isnearing/article_92113ee6-f5a4-510c-b16f-13c7ac9aab72.html)

#### Earthquake Preparedness in Western Oregon:

- <http://www.opb.org/news/series/unprepared>
- <http://www.nwcn.com/home/?fId=164828526&fPath=/news/local&fDomain=10202>
- <http://outsidetheinterzone.blogspot.com/2011/01/i-slept-through-big-one.html>
- <http://outsidetheinterzone.blogspot.com/2011/03/cobbles-and-gravel.html>

#### Cascade Volcanic Eruptions:

- <http://volcanoes.usgs.gov/observatories/cvo>
- [http://en.wikipedia.org/wiki/List\\_of\\_Cascade\\_volcanoes](http://en.wikipedia.org/wiki/List_of_Cascade_volcanoes)

#### LIDAR Images of Oregon:

<http://cascadiablog.com/2011/09/26/geek-art-lidar-nice-enough-to-frame>

#### Earth Science Literacy:

- <http://www.earthscienceliteracy.org>

#### Geology Education and Outreach Programs:

- <http://www.earthscope.org>
- [http://www.unavco.org/edu\\_outreach](http://www.unavco.org/edu_outreach)
- [http://www.iris.edu/hq/programs/education\\_and\\_outreach](http://www.iris.edu/hq/programs/education_and_outreach)

#### Geology and Commerce:

- <http://outsidetheinterzone.blogspot.com/2010/10/geo-biz.html>

#### Pacific Northwest Geo-Bloggers:

- <http://cascadiablog.com/2011/09/05/geoblogging-the-northwest>
- <http://freethoughtblogs.com/entequilaesverdad/2012/07/23/learning-from-lockwood>
- <http://outsidetheinterzone.blogspot.com>