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## **Geosciences Bulletin Board – 28 December 2015 - compiled by Elaine J. Hanford**

Winter storm “Goliath” is worthy of its name... tornadoes, floods, blizzard conditions

- <http://www.weather.com/news/weather/news/winter-storm-goliath-state-by-state-impacts>
- Photo gallery: <http://kutv.com/news/nation-world/photo-gallery-winter-storm-dec-26-27-2015>
- <http://www.wunderground.com/news/tornadoes-flooding-impacts-winter-storm-goliath>
- <http://www.weather.com/forecast/national/news/winter-storm-goliath-forecast-snow-blizzard>
- <http://www.weather.com/news/weather/news/tornadoes-flooding-impacts-winter-storm-goliath>

California Court finds engineers liable to the contractors for breach of professional duty and/or negligent misrepresentation

- <http://www.jdsupra.com/legalnews/engineers-beware-california-courts-have-47011/>

Small pre-Christmas swarm of EQs just south of Reno...felt the M4.4 at our house...no big deal

- <http://www.rgj.com/story/news/2015/12/23/32-magnitude-earthquake-shakes-south-reno/77796274/>

Reclassifying rainbows into 12 types according: whether or not certain color bands were visible in the primary bow, prevalence of Alexander band, and how visible supernumerary bands are

- <http://www.earthmagazine.org/article/rainbows-reclassified>

The Midcontinent Rift formed in three stages

- <http://www.earthmagazine.org/article/midwests-hybrid-rift-formed-three-stages>

The Meadow Bank scarp runs nearly perfectly parallel to a fault zone, but was not of seismic origin...it was formed by glacial meltwaters

- [http://www.eurekalert.org/pub\\_releases/2015-12/uoia-gfc122315.php](http://www.eurekalert.org/pub_releases/2015-12/uoia-gfc122315.php)

Sediment from Orange County dredging will go to restore the beach and marshes

- <http://www.latimes.com/local/orangecounty/la-me-1223-seal-beach-marshes-20151223-story.html>

Catastrophic landslide in City of Shenzhen, China...warnings ignored, damage & deaths result

- <http://www.nytimes.com/2015/12/22/world/asia/china-landslide-shenzhen.html>
- Video: <http://www.theguardian.com/world/video/2015/dec/21/landslide-shenzhen-china-mobile-phone-camera-video>
- <http://www.usnews.com/news/world/articles/2015-12-21/91-missing-from-landslide-that-buries-buildings-in-china>

Images capture to forces of nature in 2015

- <http://www.theglobeandmail.com/news/world/the-year-in-photos-natural-disasters/article27635105/>

Identifying the largest landslide in the North America since 1980

- <http://www.atlasobscura.com/articles/found-largest-landslide-in-north-america-since-1980>

What did we learn about the Yellowstone super volcano in 2015?

- <http://www.ibtimes.co.uk/yellowstone-supervolcano-facts-we-learned-about-active-volcano-2015-1534566>

If you saw the pictures and aerial imagery, then recognizing that the Oso Landslide was not unique is obvious

- <http://www.seattletimes.com/seattle-news/science/new-analysis-shows-oso-landslide-was-no-fluke/>

Planetary geology: New type of volcanic rock discovered on the Moon by Yutu rover

- <http://www.sciencealert.com/china-s-rover-just-discovered-a-new-type-of-moon-rock>
- <http://www.sci-news.com/space/chinese-rover-yutu-new-type-lunar-basalt-03532.html>

NOAA teams up with cargo vessels to enhance Tsunami Warning System

- [http://www.huffingtonpost.com/entry/cargo-ships-tsunami-warning\\_5678b016e4b014efe0d69ad3](http://www.huffingtonpost.com/entry/cargo-ships-tsunami-warning_5678b016e4b014efe0d69ad3)

Salty sea spray impacts cloud formation and duration

- [http://www.nsf.gov/news/news\\_summ.jsp?cntn\\_id=136822&org=GEO&from=news](http://www.nsf.gov/news/news_summ.jsp?cntn_id=136822&org=GEO&from=news)

Tornado in Sydney, Australia, turned shards of glass into flying missiles

- <http://www.canberratimes.com.au/environment/weather/sydney-tornado-shards-of-glass-become-flying-missiles--the-scariest-of-tornadoes-20151216-glpk6c.html>

Monterey Bay Aquarium gets early Christmas present...wild otter enters tidal pool and gives birth

- [http://www.huffingtonpost.com/entry/wild-otter-gives-birth-outside-aquarium\\_567946fde4b06fa6887e8f42](http://www.huffingtonpost.com/entry/wild-otter-gives-birth-outside-aquarium_567946fde4b06fa6887e8f42)

Waves from moderate storms, rather than violent events such as hurricanes, inflict the most loss on coastal wetlands

- [http://www.usgs.gov/newsroom/article.asp?ID=4418#.Vnr\\_1vkrKM8](http://www.usgs.gov/newsroom/article.asp?ID=4418#.Vnr_1vkrKM8)

Rare video of male sea horse giving birth

- <http://www.sci-news.com/biology/video-male-seahorse-giving-birth-03531.html>

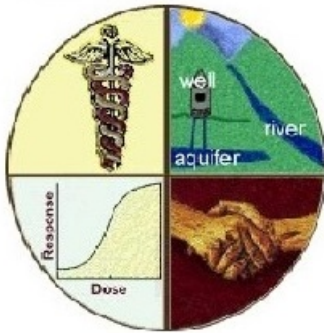
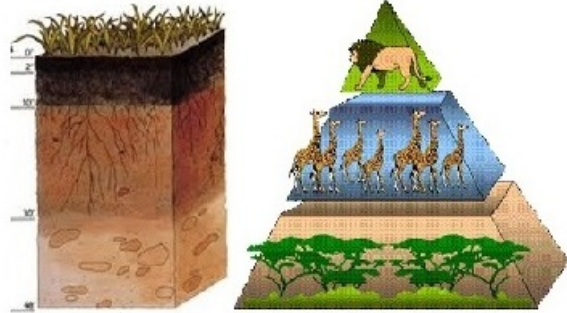
Burgess Shale fossil provides early evidence of brood care

- [http://www.spacedaily.com/reports/Burgess\\_Shale\\_fossil\\_site\\_gives\\_up\\_oldest\\_evidence\\_of\\_brood\\_care\\_999.html](http://www.spacedaily.com/reports/Burgess_Shale_fossil_site_gives_up_oldest_evidence_of_brood_care_999.html)

Discovery of new hydrothermal vent system may help explain difference between theoretical rate of crustal cooling at seafloor spreading ridge flanks and actual observations

- <http://phys.org/news/2015-12-mystery-loss-earth-crust.html>

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## Enviro-Sciences Bulletin Board – 28 December 2015 – compiled by Elaine J. Hanford

How much energy do all those Christmas lights in the US use? More than some countries use in an entire year!

- <http://www.npr.org/sections/goatsandsoda/2015/12/22/460699220/what-burns-more-kilowatt-hours-americas-xmas-lights-or-tanzania>
- Chart: <http://www.cgdev.org/blog/us-holiday-lights-use-more-electricity-el-salvador-does-year>

These 10 maps reflect issues in 2015...from social concerns to refugees

- <http://www.citylab.com/politics/2015/12/10-maps-that-defined-2015/420834/>

Satellite images and aerial views from NASA Earth Observatory reflect how the Earth changed in 2015

- <http://e360.yale.edu/content/digest.msp?id=4612>

25 million year evolutionary battle between bats and Ebola

- <http://www.technology.org/2015/12/23/cu-boulder-study-reveals-evolutionary-arms-race-between-ebola-virus-bats/>

Outbreak of Zika virus in Brazil and health care emergency in Rio de Janeiro months before the 2016 Olympics

- <http://news.yahoo.com/rio-janeiro-declares-health-system-emergency-olympics-loom-081413436--spt.html>

PFCs are not being actively produced, but still contaminate our drinking water

- <http://www.treehugger.com/clean-water/are-there-firefighting-foam-chemicals-your-drinking-water.html>
- Intercept Report: <https://theintercept.com/2015/12/16/toxic-firefighting-foam-has-contaminated-u-s-drinking-water-with-pfcs/>

Arctic reindeer are contaminated by PBDE chemicals

- <http://news.discovery.com/animals/arctic-reindeer-poo-acts-as-flame-retardant-151218.htm>

Endocrine disrupting chemicals have resulted in “intersex” male bass in wildlife refuges

- <http://www.environmentalhealthnews.org/ehs/news/2015/dec/endocrine-disruption-fish-rivers-national-wildlife-refuge>

GAO ruled EPA’s social media campaign to promote “Waters of the United States” rule violated the law...deemed a propaganda or lobbying effort

- <http://www.allgov.com/news/controversies/epa-caught-using-social-media-as-propaganda-151221?news=858028>

Seeking improved agricultural methods to reduce run-off and soil erosion

- <http://www.agprofessional.com/news/researchers-look-ways-slow-runoff-soil-erosion-farm-fields>

Based on some limited parameters, how “green” is your state?

- <http://www.renewableenergyworld.com/articles/2015/12/energy-news-how-green-is-your-state.html>

The hazards and perspectives on solar farms... perceptions matter

- <http://www.allgov.com/news/unusual-news/town-rejects-solar-farm-fearing-it-will-kill-plants-cause-cancer-and-suck-up-all-the-suns-energy-151219?news=858024>

Coywolves are common and well adapted and are continuing to expand their range

- <http://news.yahoo.com/part-coyote-part-wolf-part-065719310.html>

US F&W takes steps to protect two breeds of African lions

- <http://www.npr.org/sections/thetwo-way/2015/12/21/460590681/us-takes-steps-to-protect-two-breeds-of-african-lion>
- Lions by the numbers: [http://www.huffingtonpost.com/entry/lions-endangered-threatened\\_56788630e4b0b958f657b4b1](http://www.huffingtonpost.com/entry/lions-endangered-threatened_56788630e4b0b958f657b4b1)

First-ever national map of wild bee abundance across the US reveals counties at risk

- <http://www.treehugger.com/sustainable-agriculture/first-ever-national-bee-map-reveals-farmland-risk.html>

Paleo diet is good for you on the inside....shunning soap is good for you on the outside

- <https://www.yahoo.com/health/why-some-paleo-followers-are-shunning-conventional-15922996.html>

Promises that proposed mitigation and the additional measures recommended in the final EIS will offset environmental impacts of Sabal Trail natural gas pipeline in SW Georgia

- <http://www.ajc.com/news/news/state-regional-govt-politics/southwest-georgia-pipeline-advances/npnMj/>

Some words of warning to the European Union to not ignore setting fishing limits

- <http://www.nature.com/news/fishy-limits-1.19069>

US FDA wants stricter regulations and manufacturers & tanning facilities to accept culpability on tanning beds to reduce significant risk of the adverse health consequences

- <https://www.yahoo.com/beauty/the-fda-wants-to-ban-teens-from-tanning-165103285.html>

California goes from struggling with how to cope with drought to how to cope with lots of water

- <http://www.nytimes.com/2015/12/22/science/california-wants-to-store-water-for-farmers-but-struggles-over-how-to-do-it.html>

The consequences of affluenza are alive and well in our society

- <https://gma.yahoo.com/manhunt-intensifies-affluenza-teen-ethan-couch-155918236--abc-news-topstories.html>

Creating a safer environment for urban agriculture

- <https://student.societyforscience.org/article/building-better-safer-soils>

EPA announces funding for Arizona (\$25M) & Nevada (\$19M) infrastructure to improve local drinking water and wastewater infrastructure and reduce water pollution

- <http://cenews.com/post/7951/epa-announces-funding-to-improve-water-quality-infrastructure-in-arizona-and-nevada>