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Geosciences Bulletin Board – 24 August 2015

Rolling boulder and rockfall physics of Wile E. Coyote and the Road Runner (videos)

- <http://blogs.agu.org/landslideblog/2015/08/23/road-runner/>

Cotopaxi erupting, humans evacuating, risk of lahars increases

- <http://www.abc.net.au/news/2015-08-22/ecuadors-cotopaxi-volcano-roars-back-to-life/6717084>

USGS report on EQ risks in the US prompts Californians to worry about the “Big One”

- Report: http://www.usgs.gov/blogs/features/usgs_top_story/nearly-half-of-americans-exposed-to-potentially-damaging-earthquakes/
- <http://www.sacbee.com/opinion/opn-columns-blogs/foon-rhee/article31819011.html>

Chemistry of the Arctic Ocean Basin

- http://www.huffingtonpost.com/katlin-bowman/chemistry-of-the-arctic-o_b_7996950.html
- Interactive Map: <http://www.divediscover.whoi.edu/arctic/circulation.html>

In addition to Marie Curie, these 10 women made extraordinary contributions to the sciences

- <http://www.smithsonianmag.com/science-nature/ten-historic-female-scientists-you-should-know-84028788/>

This makes sense, mass extinctions open up niches in the environment and facilitate evolution

- <http://www.technology.org/2015/08/20/computer-scientists-find-mass-extinctions-can-accelerate-evolution/>

Overpumping groundwater during drought has caused California towns to subside at rates of 2 ft/year & portions of the California Aqueduct have sunk as much 12 inches in just the last year

- <http://www.csmonitor.com/Environment/2015/0820/California-drought-runs-Central-Valley-towns-into-the-ground-literally>
- <http://www.reuters.com/article/2015/08/19/us-usa-drought-california-idUSKCN0QO2AU20150819>

A new model of the projected future of the West Antarctica Ice Sheet (video)

- <http://www.technology.org/2015/08/20/comprehensive-projections-west-antarcticas-future-revealed/>

In NWT, diamonds have gem-quality core with coating that contains bubbles of brine that reflect on plate tectonic convective model

- <http://www.technology.org/2015/08/20/new-research-shows-seawater-involved-making-diamonds-beneath-nwt/>

Cascadia fault continues to “chatter & pop”

- <http://www.seattletimes.com/seattle-news/science/cascadia-fault-chatters-and-pops-with-little-quakes/>
- Monitor risks: <http://phys.org/news/2015-08-cascadia-northwest-pacific-seismic.html>
- Modeling tsunami risk: <http://phys.org/news/2015-08-tsunami-hazards-northwest-coast.html>

How deep are the lakes on the Greenland Ice Sheet? (video)

- <http://io9.com/how-deep-are-greenland-s-glacial-lakes-1724804040>

Sea floor sediments help reveal the fate of Fukushima contaminants

- http://www.eurekalert.org/pub_releases/2015-08/whoi-etf081815.php

In Greenland, winds off the ice sheets result in soil erosion

- <http://www.enn.com/wildlife/article/48871>

BAER teams will try to find ways to minimize flash floods, landslides & erosion following devastating wild fires

- <http://phys.org/news/2015-08-erosion.html>
- <http://www.claimsjournal.com/news/west/2015/08/18/265177.htm>

Portion of subsidence in California due to groundwater withdrawal will be permanent

- <http://news.yahoo.com/california-sinking-faster-thought-aquifers-could-permanently-shrink-140333912.html>

Inuit bid to block seismic testing off Baffin Island is blocked

- <http://www.vancouversun.com/news/national/blow+Inuit+rights+Tiny+hamlet+loses+block+seismic+testing/11301266/story.html>

Planetary geology: New NASA pics of Dione may reveal active geologic processes

- <http://www.engadget.com/2015/08/19/nasa-releases-gorgeous-image-of-saturns-moon-dione/>

Link between frequent volcanic eruptions and long-term cooling of the ocean

- http://www.spacedaily.com/reports/Frequent_volcanic_eruptions_likely_cause_of_long_term_ocean_cooling_999.html

As water levels in Lake Mead drop, erosion may increase

- <http://www.reviewjournal.com/news/water-environment/erosion-project-may-speed-lake-mead-sinks>

10-year helium isotope anomaly preceded Mount Ontake eruption

- <http://phys.org/news/2015-08-helium-anomaly-mount-ontake-eruption.html>

New method for estimating body mass of extinct quadrupeds

- <http://phys.org/news/2015-08-algorithm-body-mass-extinct-quadrupedal.html>

The first complete account of what happened during the Gorkha EQ in Nepal

- <http://www.sciencedaily.com/releases/2015/08/150806144555.htm>

Planetary geology: Supernova shock wave may have initiated formation of our solar system

- <http://www.sciencedaily.com/releases/2015/08/150818121749.htm>

The “Butterfly Effect” holds for the atmosphere

- http://www.spacedaily.com/reports/Harnessing_the_butterfly_effect_999.html

First discovery of a salamander in amber sheds light on evolution in the Caribbean

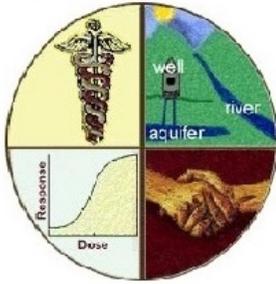
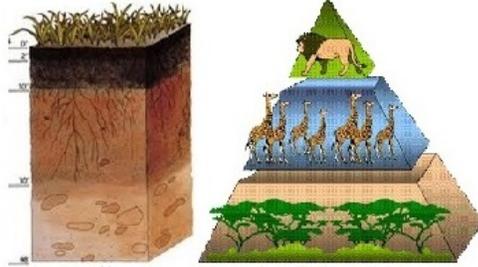
- http://www.spacedaily.com/reports/Discovery_of_a_salamander_in_amber_sheds_light_on_evolution_of_Caribbean_islands_999.html

Geoengineering would not stop change in sea level

- <http://phys.org/news/2015-08-geoengineering-technique-sea.html>

Estimated 14 percent (22,800 km or 14,200 miles) of US coastline is armored by concrete

- <http://news.sciencemag.org/environment/2015/08/fourteen-percent-u-s-coastline-covered-concrete>



Enviro-Sciences Bulletin Board – 24 August 2015 – compiled by Elaine J. Hanford

Toxic mine waste water spill from Gold King Mine in Colorado still impacting the Navajo Nation

- <http://www.npr.org/2015/08/17/432600254/navajo-nation-farmers-feel-the-weight-of-colorado-mine-spill>
- Video: <https://www.facebook.com/302132179938953/videos/516797395139096/>
- <http://www.allgov.com/news/top-stories/private-contractor-conducting-work-that-led-to-toxic-waste-spill-in-colorado-river-has-received-more-than-350-million-dollars-in-federal-contracts-150817?news=857217>
- <http://www.allgov.com/news/unusual-news/after-toxic-spill-in-colorado-river-mining-companies-avoid-responsibility-for-cleanup-thanks-to-outdated-1872-law-150819?news=857233>
- Long-term impacts (video): http://www.denverpost.com/news/ci_28661945/long-term-impacts-animas-river-spill-lie-beneath

Environmental impacts of carcass disposal of tens of millions of birds due to HPAI

- http://www.aphis.usda.gov/wps/portal/aphis/newsroom/news/sa_stakeholder_announcements/sa_by_date/sa_2015/sa_08/ct_hpai_disposal/
- Draft EIS: <http://www.regulations.gov/#!documentDetail;D=APHIS-2013-0044-0017>
- Env. Assessment: http://www.aphis.usda.gov/stakeholders/downloads/2015/hpai_ea.pdf
- FONSI: http://www.aphis.usda.gov/stakeholders/downloads/2015/hpai_fonsi.pdf

It is not just microscopic organisms that have become drug resistant caused by overuse of pyrethroids

- <http://www.smithsonianmag.com/science-nature/lice-can-resist-drugs-have-infested-half-states-us-180956308/>

The story of Rondônia – an agricultural project that became an environmental disaster in Brazil

- <http://www.smithsonianmag.com/science-nature/how-farming-project-brazil-turned-social-and-ecological-tragedy-180956310/>

CO2 emissions in China may have been overestimated by 13 percent...but we are still talking gigatonnes from fossil fuel combustion and cement production

- <http://news.sciencemag.org/asiapacific/2015/08/china-s-carbon-emissions-may-be-13-lower-estimated>
- <http://www.csmonitor.com/Environment/2015/0820/China-s-carbon-emissions-may-be-grossly-overestimated.-Why-that-matters>

The common habits of “human super-predators” and their impacts

- <http://news.yahoo.com/human-super-predators-change-hunting-fishing-habits-184157523.html>

Even if you've seen it, these New Jersey bears (mom & 5 cubs) are worth watching again! (hint: hit 'mute' if you don't like listening to whiny human kids)

- <https://www.youtube.com/watch?t=21&v=77dtqOOaGLo>

New concept of conservation that embraces change

- <http://www.csmonitor.com/Environment/2015/0820/In-climate-change-era-new-idea-for-conservation-takes-shape>

Sumatran rhino has now been declared extinct in Malaysia

- <http://news.yahoo.com/hairy-rhino-now-extinct-malaysia-232726584.html>

A change in political priorities in Spain: textbooks chosen over bullfighting

- <http://frontpage.pch.com/story/100799/spain-new-leftist-mayors-turn-back-on-bullfighting>

Almost a century after being killed off, a wolf pack with 5 cubs returns to California

- <http://news.yahoo.com/wolf-pack-returns-california-first-time-nearly-100-214112468.html>

Mercury & selenium are concentrating within the Grand Canyon-Colorado River food web

- <http://www.technology.org/2015/08/20/mercury-selenium-accumulating-colorado-river-food-web-grand-canyon/>

Human-contributed nitrate mobilizes naturally occurring uranium in 2 major US aquifers

- <http://phys.org/news/2015-08-major-aquifers-contaminated-natural-uranium.html>

Global disease & antimicrobial resistance surveillance may benefit from analysis of airplane toilet waste

- <http://www.sciencedaily.com/releases/2015/08/150819083648.htm>

Was the concept of the “Nicaraguan Canal” real or just a political hoax?

- <http://www.bloomberg.com/news/articles/2015-08-19/china-s-building-a-huge-canal-in-nicaragua-but-we-couldn-t-it>

Honey bees rapidly evolved to overcome recent disease impacts

- <http://phys.org/news/2015-08-honey-bees-rapidly-evolve-disease.html>

Neonicotinoids found in more than half of surface waters sampled across the US

- <http://www.usgs.gov/newsroom/article.asp?ID=4300#.VdSpjvIViko>

“Tree of Life” may be more like a bush

- http://www.terraviva.com/reports/The_Tree_of_Life_may_be_a_bush_999.html

Is New Orleans really resilient enough to withstand another Katrina event?

- http://www.spacedaily.com/reports/Resilient_New_Orleans_can_bear_another_Katrina_mayor_999.html

22-year old lawsuit by farm workers exposed to pesticides is once again dismissed by judge

- <http://www.allgov.com/news/us-and-the-world/bitterly-divided-federal-appeals-panel-halts-22-year-old-lawsuit-by-farm-workers-exposed-to-toxic-chemicals-150816?news=857212>

Cattle rustling is increasing in Plains States...5,800 cattle rustled just in Texas in 2014

- <http://www.wptv.com/money/consumer/high-beef-prices-fueling-rustling-revival-in-plains-states>

More than 100 million sharks killed by humans last year...species threatened

- <http://www.canberratimes.com.au/technology/sci-tech/man-attacks-shark-as-deadly-hunt-threatens-species-20150819-gj2cos.html>

Why do owls fly without making almost any noise?

- <http://www.theconstructionindex.co.uk/news/view/engineers-lookk-to-learn-from-stealthy-owls>

Report recommends 27 measures to reduce risk of oil-train derailments in Pittsburgh, PA

- http://www.philly.com/philly/business/20150818_Report_offers_27_ways_to_reduce_risk_of_oil_train_derailments_in_Pa_.html
- <http://www.bizjournals.com/pittsburgh/blog/energy/2015/08/some-trains-carrying-crude-oil-could-bypass.html>

What is the best way to eliminate “fat bergs” that clog our sewer systems? Education!!

- <http://www.theguardian.com/cities/2015/aug/07/fighting-the-fatbergs-how-cities-are-waging-war-on-clogged-sewers>

EPA presents two proposals to reduce methane emissions from solid waste facilities – comment period is open for 60 days

- <http://cenews.com/post/7482/epa-proposes-to-cut-methane-emissions-from-municipal-solid-waste-landfills>

Photos of 10 species that have gone extinct within the last 200 years

- <http://www.treehugger.com/slideshows/natural-sciences/glimpse-what-we-lost-10-extinct-animals-photos/>