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Geosciences Bulletin Board – 27 July 2015

Were warnings of “mini ice age” more hoopla than science?

- <http://phys.org/news/2015-07-mini-ice-age-hoopla-giant.html>

New theory on why the mammoths & other mega fauna went extinct

- <http://news.yahoo.com/mighty-mammoths-fell-prey-rapidly-warming-earth-121459749.html>

“Kick Em Jenny” volcano is rumbling in the Caribbean Sea on the Lesser Antilles Ridge

- <http://phys.org/news/2015-07-undersea-volcano-em-jenny-rumbling.html>

NASA seeks investigators of electromagnetic pulses as precursors to earthquakes: establishes “Quest for Quakes” competition with \$25,000 prize

- <http://www.dailymail.co.uk/sciencetech/article-3173689/Could-electromagnetic-pulses-warning-big-one-Nasa-launches-plan-monitor-mysterious-signals.html>
- <http://www.prnewswire.com/news-releases/nasa-hosts-quest-for-quakes-data-challenge-300118422.html>

“Hair ice” is unique and owes its development to a fungus

- <http://www.technology.org/2015/07/23/researchers-identify-the-fungus-responsible-for-shaping-the-peculiar-hair-ice/>

Great Basin mountain peaks are great places to install fire-spotting camera system

- <http://www.technology.org/2015/07/23/fire-spotting-camera-system-installed-on-great-basin-mountain-peaks/>

Landmark geological studies in 1960 resolved the meteor crater debate

- <http://www.earthmagazine.org/article/benchmarks-july-221960-mineral-discovery-ends-meteor-crater-debate>

Mineral Resource of the Month: Gemstones

- <http://www.earthmagazine.org/article/mineral-resource-month-gemstones>

Mapping out the trajectory of the three stages of the April 2015 Nepal Earthquake

- <http://phys.org/news/2015-07-trajectory-april-earthquake-nepal.html>

Satellite imagery reveals the alkaline ring dike complex in Pilanesberg National Park in South Africa

- http://www.spacedaily.com/reports/Satellite_imagery_reveals_Pilanesberg_ring_dike_complex_999.html

What happened to the first crust of Earth may have made the planet more inhabitable by life

- <http://www.sciencedaily.com/releases/2015/07/150721193957.htm>

Tracking some “monster” submarine waves in the South China Sea

- <http://www.sciencedaily.com/releases/2015/07/150721193900.htm>

Latest survey data may reveal current height of Mount McKinley in Denali National Park

- <http://www.usgs.gov/newsroom/article.asp?ID=4274#.VbE-OvIViko>

USGS conducted analysis of storm-tide impacts from Hurricane Sandy

- http://www.usgs.gov/newsroom/article.asp?ID=4272#.VbE-Q_IViko

PECAN may help understanding and prediction of thunderstorms that occur at night

- http://www.nsf.gov/discoveries/disc_summ.jsp?cntn_id=135631&org=GEO&from=news

Earthquake in Rhode Island is reminder that New England is due for a major event

- <http://www.bostonglobe.com/metro/2015/07/23/major-earthquake-will-hit-new-england-again-someday/3MAogFwcnqxY6jNU2qkwYP/story.html>

Keeping a watchful eye on riverbank erosion in Boulder County along the St Vrain River

- http://www.dailycamera.com/variety/ci_28501725/boulder-county-keeps-an-eye-st-vrain-riverbank

If you want to be “safer” when it comes to natural disasters, where should you travel?
Though there may be other risks there

- <https://www.yahoo.com/travel/most-dangerous-and-safest-countries-when-it-comes-124848474857.html>

As an area of permafrost continues to melt, this lake may literally “fall off a cliff” into the Mackenzie Valley in NWT, Canada

- <http://www.theprovince.com/technology/lake+falling+cliff+permafrost+melt+normal+scientist+warns/11233971/story.html>

NASA releases EPIC view of Earth...first in a number of decades

- <http://www.nasa.gov/press-release/nasa-satellite-camera-provides-epic-view-of-earth>

Re-discovering the 190 myo fossils collected by Charles Moore in the 1800s

- <http://www.culture24.org.uk/art532634-forgotten-fossils-from-190-million-years-ago-refound-in-bath-collection-of-indomitable-19th-century-geologist>

National Monuments designated...will protect mountains, habitat & mammoth remains

- <http://www.allgov.com/news/unusual-news/obama-adds-one-million-acres-of-wilderness-to-federal-protection-150722?news=857018>

Utah approves plan for Tar Sands Mine in Book Cliffs area but requires water monitoring

- <http://www.allgov.com/news/controversies/utah-government-gives-go-ahead-to-first-tar-sands-mine-in-us-150723?news=857028>

M4.1 in Fremont, California, prompts warning that the Hayward Fault could generate a large EQ

- <http://kron4.com/2015/07/21/scientist-warn-hayward-fault-expected-to-produce-large-quake/>
- <http://sanfrancisco.cbslocal.com/2015/07/21/major-quake-on-hayward-fault-expected-any-day-now-fremont-earthquake/>

Planetary geology: New Horizons Spacecraft images of Pluto

- <http://www.nature.com/news/vibrant-pluto-stuns-scientists-1.18022>

Stream Protection Rule proposed to regulate coal mining impacts on surface waters

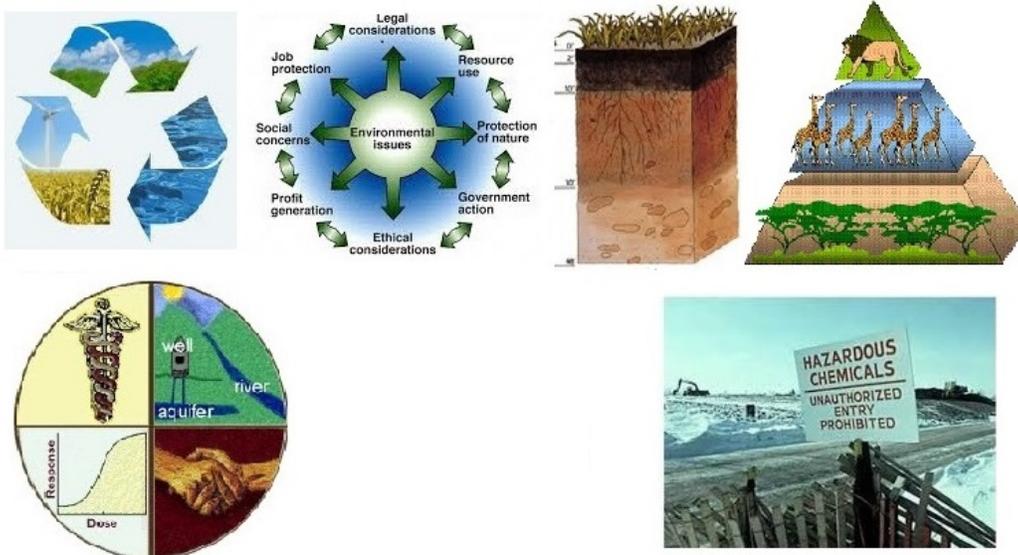
- <http://cenews.com/post/7419/interior-department-proposes-stream-protection-rules-to-minimize-coal-mining-impacts>

New Yorker article on “The Really Big One” emphasizing potential Pacific NW Earthquake results in significant increase in sales of Earthquake Survival Kits

- <http://www.seattletimes.com/seattle-news/ready-or-not-earthquake-kits-flying-off-the-shelves/>
- <http://q13fox.com/2015/07/13/local-experts-respond-to-national-article-depicting-next-big-earthquake-in-pnw/>
- New Yorker: <http://www.newyorker.com/magazine/2015/07/20/the-really-big-one>

Yet another dire warning of catastrophic sea level rise due to global warming

- http://www.huffingtonpost.com/entry/james-hansen-sea-level-rise_55aecb02e4b0a9b94852e7f5
- <http://news.yahoo.com/3-things-know-terrifying-climate-study-221518811.html>



Enviro-Sciences Bulletin Board – 27 July 2015 – compiled by Elaine J. Hanford

When will humans learn??? Selfie with a rattlesnake has dire and expensive consequences!

- <http://www.washingtonpost.com/blogs/wonkblog/wp/2015/07/20/this-153000-rattlesnake-bite-is-everything-wrong-with-american-health-care/>
- <http://www.cnet.com/uk/news/man-tries-selfie-with-rattlesnake-gets-snakebit-for-150000/>

Keeping Lake Tahoe blue means controlling runoff that enhances algae

- <http://phys.org/news/2015-07-tahoe-blue-algae-clarity-key.html>

New report “Global Estimates: People Displaced by Disasters”

- <http://www.enn.com/climate/article/48802>
- <http://www.internal-displacement.org/global-estimates>
- Download link: <http://www.internal-displacement.org/publications/2015/global-estimates-2015-people-displaced-by-disasters>
- Report: <http://www.internal-displacement.org/assets/library/Media/201507-globalEstimates-2015/20150713-global-estimates-2015-en-v1.pdf>

Sierra Club supports water conservation, Texas to build another pipeline to move water to Tarrant County but the State has not yet created any new reservoirs

- <http://www.star-telegram.com/news/local/community/fort-worth/article28452094.html>

Montana wildfire rages in part of Glacier National Park

- <http://www.trust.org/item/20150723182235-sao98/>

Radiation at Fukushima Nuclear Plant has resulted in mutant daisies & butterflies

- <http://andyjwells.tumblr.com/post/124820230062/man-discovers-mutant-daisies-growing-at>
- Video: <http://www.rt.com/news/310577-fukushima-deformed-mutated-daisies/>

Resilience versus fail-safe...which is better when thinking about floods & infrastructure?

- <http://phys.org/news/2015-07-urban-infrastructure.html>

Selfies & wild animals do NOT mix! When will people learn?

- <http://news.yahoo.com/bison-injures-woman-posing-selfie-yellowstone-203026927.html>

Nine cases of leprosy have been diagnosed in Florida...armadillos are a reservoir species

- <https://www.yahoo.com/health/florida-is-facing-a-leprosy-outbreak-youll-never-124760030587.html>

Cecil the lion, the oldest in Zimbabwe Hwang National Park, was killed just beyond the park border

- <http://news.yahoo.com/zimbabwe-most-famous-lion-now-hunting-trophy-223805794.html>

New vaccine appears successful in combating contagious cancer in Tasmanian Devils...immunized animals to be released into the wild

- <http://www.canberratimes.com.au/environment/huge-step-forward-with-devil-cancer-vaccine-20150722-gihx0m.html>

EPA releases new technical guidance on vapor intrusion under RCRA, CERCLA & Brownfields

- <http://ehsjournal.org/http://ehsjournal.org/nadine-weinberg/usepa-releases-vapor-intrusion-technical-guidance/2015/>
- Brief history:
http://www.newmoa.org/events/docs/39_41/VI_GuidanceWebinarAugust2012.pdf

Natural yeast *Candida albicans* produces chemical which inhibits fungus that causes white-nose syndrome in bats

- <http://cavingnews.com/20150722-natural-yeast-byproduct-found-to-inhibit-white-nose-syndrome-fungus>

Before you eat that salmon, ask where it came from! Salmon farmers in Chile use massive amounts of antibiotics

- <http://news.yahoo.com/addicted-antibiotics-chiles-salmon-flops-costco-grocers-130612992--finance.html>

NSW Environment Protection Authority to permit discharge of saline waters from Springvale Mine to Cox River that flows through World Heritage Area to water supply for Sydney, Australia

- <http://www.canberratimes.com.au/environment/water-issues/blue-mountains-coal-mine-licence-to-permit-highly-saline-discharges-20150722-gih2zs>

Revised plan from US Bur of Rec & CWR to build a \$15-billion water conveyance system in the Sacramento-San Joaquin Delta

- http://enr.construction.com/infrastructure/water_dams/2015/0720-officials-float-new-bay-delta-water-conveyance-plan.asp

- Original plan: <http://www.californiawaterfix.com/news>

A fake city built to test cars without drivers...is this logical? (video)

- <http://www.csmonitor.com/USA/USA-Update/2015/0721/Mcity-Why-is-the-University-of-Michigan-building-a-fake-town-video>

Signs that El Niño is strengthening...more alarmist predictions (video)

- <http://www.cbsnews.com/news/heavy-storms-in-california-signify-return-of-el-nino/>

The snow leopard is great at camouflage...can you find him in the pictures?

- <http://www.grindtv.com/wildlife/elusive-nature-of-snow-leopards-captured-in-stunning-photos/#3kvsA76W0HSMbM04.97>

Offsetting loss of biodiversity with funding without benefits is not a good thing

- <http://www.nature.com/news/conservation-stop-misuse-of-biodiversity-offsets-1.18010>

Environmental metrics can be tracked from space, but agreement needed on which metrics to include when assessing global biodiversity

- <http://www.nature.com/news/environmental-science-agree-on-biodiversity-metrics-to-track-from-space-1.18009>

Flash floods have significant force and can destroy infrastructure

- <http://www.usatoday.com/story/news/nation/2015/07/19/i-10-collapse-california/30399815/>
- <http://abcnews.go.com/US/wireStory/california-10-bridge-collapse-travel-woes-32560309>
- <http://www.desertsun.com/story/news/2015/07/19/desert-center-bridge-collapse/30395123/>
- Passed inspection: <http://www.pe.com/articles/highway-773881-bridge-caltrans.html>

NYC to develop and improve space underneath infrastructure throughout the city

- <http://www.smithsonianmag.com/innovation/seven-ways-revamp-deserted-spaces-under-new-york-citys-highways-elevated-trains-180955726/>

Searching for methods to make agriculture more resilient

- <http://www.nature.com/news/quest-for-climate-proof-farms-1.18015>
- <http://www.treehugger.com/sustainable-agriculture/imagine-farming-actually-heals-earth.html>

Controlled burns are used to ostensibly increase biodiversity, but may lead to invasive plants

- http://www.terradaily.com/reports/Controlled_burns_increase_invasive_grass_in_hardwood_forests_999.html