Do you know of a colleague and/or student who would be interested in receiving these Bulletin Board listings? Please forward to them. A quick email to Geosciences-BBoard@att.net with the word "subscribe" in the subject line and the email address will be added to the weekly distribution.

Geosciences Bulletin Board – 19 December 2016 - compiled by Elaine J. Hanford

Shopping for children for Christmas? Here’s a list of the “best” STEM toys
  • [http://www.huffingtonpost.com/entry/stem-toys-so-much-fun-your-child-wont-realize-how_us_584d78ede4b0016e50430504](http://www.huffingtonpost.com/entry/stem-toys-so-much-fun-your-child-wont-realize-how_us_584d78ede4b0016e50430504)

Geomedia – Holiday gift guide

Canadian geoscientists discovered primordial 2B year old water in Kidd Creek Mine in Timmons, Ontario
  • [http://www.gizmodo.co.uk/2016/12/two-billion-year-old-water-found-in-canadian-mine/](http://www.gizmodo.co.uk/2016/12/two-billion-year-old-water-found-in-canadian-mine/)

Chemical signatures caused by frictional heat reflect past earthquake activity

USGS releases model for assessing water availability in Northern High Plains Aquifer (Ogallala Aquifer)
  • SIR 2016-5153: [https://pubs.er.usgs.gov/publication/sir20165153](https://pubs.er.usgs.gov/publication/sir20165153)

No tsunami in New Zealand following 7.9M EQ off Papua, New Guinea
Benedictine Beer sales help monks rebuild damaged Basilica in Norcia, Italy

Decades of once-secret, declassified CIA maps now become available
- Images: [https://www.flickr.com/photos/ciagov/albums](https://www.flickr.com/photos/ciagov/albums)

Underwater observatory watches eruption of Axial Seamount

Thinking like a septic tank

Researchers at GFZ German Research Centre for Geosciences use rock painting to study erosion

Ironic: fake news claim of data going missing on the heels of Climategate when data was “lost”

Why the seahorse is so unique

Tycho Brahe had high levels of gold in his body when he died

Perspective: Swamp draining will expose corrupt climate crocodiles and the “Goracle”

19m (62.3 ft) wave height is new record measured by an ocean buoy in North Atlantic

3.7 myo fossil hominid footprints

105 years ago: Roald Amundsen stood on the South Pole
Update: Bertha scheduled to finish boring tunnel by mid-summer, cost over-runs won’t be as exorbitant

Mount St Helens exhibits seismic activity as seismographs record four swarms of small EQs

Considering a subsea tunnel under Strait of Belle Isle to link Newfoundland with Labrador

Will Earth still exist 5 billion years from now?

India to conduct first survey for rare earth metals

NASA developing method to use satellite observations of magnetic fields to measure heat stored in the ocean (video)

Warning of possible EQs, volcanic eruptions & tsunamis in Santorini based on underwater bathymetric and seismic high-tech research

Awesome giant Leatherback Turtle joined boaters (video)

Reconstructing 7.5 million years of climate change and response of the East Greenland ice sheet

New evidence may explain why “snowball Earth” melted

NASA using satellite images to map rates of ice flow across the Earth

Breakup of Pangea cooled the mantle and thinned the crust
Variable-resolution modeling suggests possible connection between local weather conditions and global patterns

Ice Ages are linked to wobble (eccentricity, obliquity and precession) in the orbit of the Earth – predicting the next Ice Age?

Combination of historical data & modern mapping engines produce high-resolution maps of surface waters & spatial-temporal changes in associated geomorphology

Residents of Nova Scotia heard the “big boom” of this 3.0M EQ

Thawing permafrost results in 150+ geomorphic features on the Yamal Peninsula

New high-resolution animation of the largest El Niño ever recorded
  •  [https://www.climatescience.org.au/content/1098-extraordinary-animation-reveals-ocean%E2%80%99s-role-el-ni%C3%B1os](https://www.climatescience.org.au/content/1098-extraordinary-animation-reveals-ocean%E2%80%99s-role-el-ni%C3%B1os)

Horned dinosaur relationships redefined by naming of 2 new ceratopsian tribes
Enviro-Sciences Bulletin Board – 19 December 2016 – compiled by Elaine J. Hanford

The magic of reindeer (video)
•  http://www.treehugger.com/animals/facts-reindeer-antlers.html

Perspective: Protecting polluters, not preventing pollution
•  http://www.columbiamissourian.com/opinion/local_columnists/ken-midkiff-protecting-polluters-not-preventing-pollution/article_39d95be2-be58-11e6-87ae-d7674a71a51e.html

New Book: “High and Dry: Meeting the Challenges of the World’s Growing Dependence on Groundwater”
•  https://www.amazon.com/High-Dry-Challenges-Dependence-Groundwater/dp/0300220383

Book Review: “Scurvy: The Disease of Discovery”
•  http://www.nature.com/nature/journal/v540/n7633/full/540338a.html

What does the future hold in store for Glen Canyon dam on the Colorado River?

Adverse impacts of bon fires on human health & the environment
National Park Service releases draft plan to for 20 to 30 new wolves on Isle Royale

Likely multiple sources of infection for outbreaks of Elizabethkingia in Illinois and Wisconsin
• http://www.foxnews.com/health/2016/12/13/rare-elizabethkingia-infections-report-suggests-more-than-1-source.html

Humans continue to create poison the ocean with plastic
• http://www.pri.org/stories/2016-12-13/climate-change-meet-your-apocalyptic-twin-oceans-poisoned-plastic

Instead of worrying about sea level rise, shouldn’t more effort go toward further mitigating impacts of human drainage and pollution on the Everglades?

Invasive scavengers alter the island nutrient cycle in Hawaii
• https://www.eurekalert.org/pub_releases/2016-12/uog-eab121316.php

Wolf that escaped from Idaho tourist attraction was shot & killed by owner
• http://www.seattletimes.com/nation-world/escaped-wolf-from-eastern-idaho-tourist-attraction-killed/

Interactive map of cumulative cases of arboviruses in the US
• http://diseasemaps.usgs.gov/mapviewer/

CDC issues warning for pregnant women to reconsider travel to Brownsville, Texas, where locally acquired Zika has been documented

Obama still determined to influence national environmental policy
• http://www.outsideonline.com/2141756/obamas-mad-dash-protect-environment
• Boundary Waters: https://content.govdelivery.com/accounts/USDAOC/bulletins/179e8fb

USDA revises guidance on “Best Used By” labeling to reduce food waste

Is drip irrigation the solution to the water woes of the world?

Book Review: “Earth in Human Hands: Shaping Our Planet's Future”
• http://www.nature.com/nature/journal/v540/n7633/full/540339a.html

Pack of wolves chase off ski resort employee in Banff National Park in Canada
Fines issued to couple for poaching bison inside Grand Teton National Park
- http://www.grindtv.com/random/evidence-snow-key-cracking-bison-case-grand-teton-national-park/#2eJ6OYJCoVSGoY2l.97

NASA creates new model of carbon dioxide movement through the atmosphere (video)

EPA now says data gaps preclude definitive statement of severity of fracking risk to drinking water

Thousands of maps from LOC collection will be digitized and available online
- Digital Public Library of America: https://dp.la/

Montana Rep. Ryan Zinke named to be the next Secretary of the Interior

Rick Perry of Texas named to be new Energy Secretary

Rise in methane in the atmosphere is puzzling

Atlantic killifish high levels of genetic variation helping them to adapt to levels of highly toxic industrial pollutants

Cost estimates for Fukushima nuclear plant are now $17.5B for decommissioning & $190B for cleanup

Assessing a 45-year history of the invasion of the peacock bass on native species in Panama

Considering the possibility of a new lock connecting Lakes Superior & Huron at Sault Ste. Marie
Study identifies possible causal link between deforestation in French Guiana and increase in tropical disease

Parents tech behavior as role models for their children – is this a good or bad thing?

CDC report lists record 52,000+ deaths in 2015 in the US due to drug overdose

“Yule tree” model may help predict extinction

Rewriting the evolutionary history of smallpox

Atacama Desert, now one of the driest locales on Earth, may have harbored lakes & wetlands

Perspective: Refugees must be accounted for in seismic risk models