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Geosciences Bulletin Board – 26 January 2014

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Slide Show: Rocks, Paper, Sinners – folks returning stolen petrified wood to National Park

- <http://www.newyorker.com/tech/elements/slide-show-bad-luck-petrified-forest?mbid=rss>

Dust thought to have originated in supernovae and settled on ocean floor is analyzed

- <http://phys.org/news/2015-01-ocean-floor-insight-supernovae.html>

Bioluminescence, called Sea Sparkle, triggered by farm pollution makes the ocean glow (images)

- <http://phys.org/news/2015-01-magnificent-blue-hong-kong-seas.html>

Take a great country walk and see the geology of Stac Pollaidh in Scotland

- <http://www.theguardian.com/travel/2015/jan/25/great-country-walks-stac-pollaidh-scotland>

Descending into Marum Crater...and active volcano...see the trip via video

- <http://www.businessinsider.com/explorers-descend-into-active-volcano-2015-1>

Could history repeat itself? Another great tsunami could hit Ireland

- <http://www.irishtimes.com/news/environment/another-life-an-irish-tsunami-it-s-not-as-unlikely-as-it-sounds-1.2077018>

Solving the mystery of the Tibetan mountains

- <http://phys.org/news/2015-01-geologists-mystery-tibetan-mountains.html>

EQs and fracking....seem to go hand in hand in Irving, Texas

- <http://www.cbc.ca/news/technology/earthquake-swarm-near-texas-fracking-sites-alarms-residents-1.2927220>
- Changes National Seismic Hazards Map:
<http://www.claimsjournal.com/news/southcentral/2015/01/23/260535.htm?>

Oklahoma company named as defendant for injuries in EQ to woman from Prague; OK Court to hear case that alleges fracking induced the 5.6 MEQ

- <http://www.mysanantonio.com/business/article/Oklahoma-Supreme-Court-to-decide-Prague-6038980.php?>

Climate – journalists should be factual and neutral in reporting

- http://www.wsj.com/article_email/holman-jenkins-climate-reportings-hot-mess-1421802468-1MyQjAxMTA1NjI1MTcyNDE5Wj

Lessons to be learned from the 2011 EQ in Japan could help coastal Oregon prepare for a big one

- <http://www.opb.org/news/series/unprepared/unprepared-japanese-earthquake-holds-lessons-for-oregon-coast/>

What does an iceberg look like after it has flipped over? Stunningly beautiful!!

- <http://www.smithsonianmag.com/science-nature/photographer-captures-stunning-underside-flipped-iceberg-180953951/>
- More images: <http://instagram.com/alexcornell>

Do “vanilla-flavored” rocks suggest a vinegar acid rain when the trilobites died out?

- <http://www.smithsonianmag.com/science-nature/vinegar-acid-rain-may-have-fallen-during-earths-worst-extinction-180953972/>

A new approach to river basin management and method of flood analysis?

- <http://www.sciencedaily.com/releases/2015/01/150122133221.htm>

Study predicts unprecedented loss of coral in the Great Barrier Reef

- <http://www.sciencedaily.com/releases/2015/01/150122103242.htm>

Rocks from the Nuvvuagittuq Greenstone Belt reveal composition of the atmosphere of Earth 4bya

- <http://www.sciencedaily.com/releases/2015/01/150114115247.htm>

De-bunking the theory of a global fire-storm at the K-T boundary due to meteor impact

- <http://www.sciencedaily.com/releases/2015/01/150122084849.htm>

Mineral resource of the month: Stibnite & Jamesonite are ore minerals of antimony

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

Isostatic adjustment occurring as Fox Glacier retreats

- <http://phys.org/news/2015-01-west-coast-valley-glaciers-retreat.html>

International organizations organized by the UN to share geosciences data

- <http://www.earthmagazine.org/article/comment-supersites-sharing-geoscience-data-science-and-society>

Webcam captures volcanic eruption in Mexico

- <http://www.telegraph.co.uk/news/worldnews/centralamericaandthecaribbean/mexico/11363140/Webcam-captures-huge-volcano-eruption-in-Mexico.html>

Potential consequences of a megathrust earthquake in British Columbia

- <http://www.cbc.ca/news/canada/british-columbia/b-c-megathrust-earthquake-will-rip-earth-open-like-a-zipper-expert-says-1.2917261>

New model reflects similarities between landslides and earthquakes

- <http://phys.org/news/2015-01-similarities-landslides-earthquakes.html>

NSF-funded Antarctic drilling team reaches the “grounding zone” beneath the ice

- http://www.nsf.gov/news/news_summ.jsp?cntn_id=133895&org=GEO&from=news

Delicate sculptures of sand and wind... beautiful and sometimes fleeting (images)

- <http://www.tasmaniangeographic.com/delicate-sculptures-of-sand-and-wind/>

Fossils that survived volcanic eruptions tell the history of the Canary Islands

- http://www.sciencecodex.com/fossils_survive_volcanic_eruption_to_tell_us_about_the_origin_of_the_canary_islands-149343

This 9-foot long middle Triassic carnivorous reptile has features of both birds & crocodylians

- <http://www.livescience.com/49513-predatory-crocodile-fossil.html>

Model suggests a small drop in sea level had significant impact on Great Barrier Reef

- http://www.eurekalert.org/pub_releases/2015-01/uos-sdi012215.php

Fossil evidence showing this reptile provided parental care of its young

- <http://www.livescience.com/49485-reptile-fossils-parental-care.html>

How did the Heart Mountain Landslide moved over 30 miles across the Wyoming landscape?

- <http://news.yahoo.com/worlds-biggest-landslide-floated-hovercraft-134441672.html>

Coastline continues to erode...big surprise...despite massive & expensive human efforts

- http://www.philly.com/philly/news/new_jersey/20150118_The_long_expensive_battle_for_N_J_s_receding_coastline.html

Rare sharks mostly found in ocean depths below 400 m - or in Taiwanese fish market (video)

- <http://www.canberratimes.com.au/environment/conservation/horrific-frilled-shark-pulled-from-the-depths-of-the-ocean-20150121-12uuhb.html>

Should we be mining our sewage for precious metals?

- http://blogs.discovermagazine.com/d-brief/2015/01/20/sewage-sludge-gold-platinum/#.VMEyIEf_Cs

Eruption in Tonga creates a new island of scoria....which may be quickly eroded by the ocean

- http://hosted.ap.org/dynamic/stories/A/AS_TONGA_VOLCANIC_ERUPTION

Enviro-Sciences Bulletin Board – 26 January 2015 – compiled by Elaine J. Hanford
Compilation of selected current news articles pertinent to the discipline:

Ebola:

- GM cows to produce antibodies: <http://www.nydailynews.com/life-style/health/ebola-cure-genetically-engineered-cattle-article-1.2083778>
- Reason for some optimism: http://frontpage.pch.com/p/news/source/news_ap/category/top_headlines/article/6fb4b9b2bf5a4d4eab91c6602f2e748e

Stop talking about “sustainability”...Humans have exceeded 4 of 9 planetary boundaries

- http://www.terraily.com/reports/Humanity_has_exceeded_4_of_9_planetary_boundaries_999.html
- <http://www.stockholmresilience.org/21/research/research-news/1-15-2015-planetary-boundaries-2.0---new-and-improved.html>

Feedlot dust carried downwind contains antibiotics, bacteria & genetic resistance

- <http://phys.org/news/2015-01-environmental-scientists-antibiotics-bacteria-resistance.html>

What will happen if we lose antibiotics?

- <http://www.thecattlesite.com/news/47326/whats-left-if-we-lose-antibiotics>

Avian flu – continuing to battle multiple strains, including new highly pathogenic H5N3

- Taiwan: <http://www.cidrap.umn.edu/news-perspective/2015/01/avian-flu-including-new-strain-continues-plague-taiwan>
- Idaho: <http://outbreaknewstoday.com/idaho-bird-flu-h5n8-and-h5n2-avian-influenza-strains-confirmed-63163/>
- Great Basin warnings: <http://www.basinsradio.com/Caution-Urged-for-Those-Handling-Birds/20742785>
- Washington state: http://www.tri-cityherald.com/2015/01/21/3370143_port-angeles-goes-under-quarantine.html

Millions of GM mosquitos may be released in Florida Keys to fight Dengue & Chikungunya threat

- http://frontpage.pch.com/p/news/source/news_ap/category/top_headlines/article/a8f2db34ab46408b8c9e6e906be41591

New EU toolkit to help communities develop resiliency to coastal storms and flooding

- <http://phys.org/news/2015-01-coastal-resilience-storms.html>

Soil can filter some endocrine disrupting chemicals out of wastewater discharge and help protect water resources

- http://www.sciencecodex.com/soils_could_keep_contaminants_in_wastewater_from_reaching_groundwater_streams-149347

Arsenic is in our food supply...how much concern should it evoke?

- <http://medicalxpress.com/news/2015-01-arsenic-food.html>

Our US population demographics are changing...no longer dominated by Baby Boomers

- <http://www.allgov.com/news/unusual-news/immigrants-help-millennials-edge-out-baby-boomers-as-nations-largest-living-generation-150121?news=855434>
- Growth model: http://www.terraily.com/reports/ORNL_model_explores_location_of_future_US_population_growth_999.html

Other organisms do not just “see” the world, they sense it

- <http://www.treehugger.com/natural-sciences/4-ways-animals-sense-world-invisible-humans.html>

How to attempt to control genetically modified organisms

- <http://www.csmonitor.com/Science/2015/0121/How-do-you-prevent-genetically-modified-organisms-from-jumping-ship-video>

Call for review and revision of US Drinking Water Standards to protect the public

- <http://cenews.com/post/6799/researchers-call-for-changes-in-50-year-old-drinking-water-standards>

Human experimentation has not always been what we might call ethical

- http://www.huffingtonpost.com/aysha-akhtar/how-animal-experiments-pa_b_6462706.html
- NYT Story: <http://www.nytimes.com/2015/01/20/dining/animal-welfare-at-risk-in-experiments-for-meat-industry.html>

Animal breeding experimentation to increase meat production...causing harm to animals?

- <http://www.allgov.com/news/top-stories/farm-animals-suffer-from-government-breeding-experiments-aimed-at-bolstering-meat-industry-profits-150122?news=855443>

Slide show of PETAs 3+ decade long history of fight against animal experimentation

- <http://news.sciencemag.org/plants-animals/2015/01/slideshow-peta-s-crusade-against-animal-research>

Columbus Zoo holds classes for High School students ... mentoring for the future (video)

- <http://www.dispatch.com/content/stories/local/2015/01/19/zoo-school.html>

Recycling foam containers no longer viable....New York bans expanded polystyrene containers

- <http://cen.acs.org/articles/93/i3/Big-Apple-Bans-Foam-Containers.html>

Controversial study shows link between circumcision and autism...but is it cause-effect?

- http://www.huffingtonpost.com/2015/01/20/circumcision-autism-new-study_n_6503106.html
- <http://sciencenordic.com/study-links-autism-circumcision>

Recycling: Turning grocery store food waste into liquid fertilizer (video)

- <http://www.treehugger.com/sustainable-agriculture/fork-farm-startup-recycling-grocery-store-food-waste-organic-fertilizer.html>

Hazards that bicyclists face on the road depend on where they are riding: beware of kangaroos

- <http://www.canberratimes.com.au/national/cyclist-crashes-into-kangaroo-on-canberra-road-20150121-12uwe6.html>

Facing long-term drought, considering how to redesign Los Angeles to become a giant sponge

- <http://www.npr.org/2015/01/22/378844314/building-sponge-city-redesigning-la-for-long-term-drought>

Trying to reduce mosquito-borne illnesses by trying to control mosquito reproduction

- <http://www.healthcanal.com/medical-breakthroughs/59319-scientists-identify-important-mechanism-involved-in-production-of-mosquito-eggs.html>

New serotype of salmonella identified by Texas Tech...implications for livestock & food supply

- <http://outbreaknewstoday.com/salmonella-lubbock-new-serotype-discovered-by-texas-tech-researcher-51481/>
- USDA actions: <http://farmfutures.com/story-usda-takes-next-steps-limit-salmonella-illnesses-0-123023>

Veterinary medicine developing vaccines using proteins...may lead the way for human vaccines

- <http://www.infectioncontroltoday.com/news/2015/01/developing-vaccines-for-insectborne-viruses.aspx>

Perspective: Why it is important to embrace the International Year of Soils”

- http://www.nature.com/news/down-to-earth-1.16751?WT.ec_id=NATURE-20150122

Perspective: China’s new environmental policy has a few short-comings

- http://www.nature.com/news/policy-four-gaps-in-china-s-new-environmental-law-1.16736?WT.ec_id=NATURE-20150122

Paper: Humans pose threat of transmitting diseases to animals (Zooanthroponosis)

- <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0089055>

Construction begins on largest wind farm in British Columbia...61 turbines with 185 mw capacity

- http://www.vancouver.sun.com/business/energy/Construction+begins+million+Tumbler+Ridge+wind+farm/10745859/story.html?_lsa=f6a6-a7e6

BP trial for Deepwater Horizon failure to enter Phase 3 of trial to determine fine (video)

- <http://www.bbc.com/news/business-30893293>
-

Conservation of caves, commons, battlefields, and hunting areas

- <http://www.landtrustalliance.org/about/saving-land/winter-2015/caves-commons-and-conservation>

Bacteria can be good for your health and your brain

- <http://medicalxpress.com/news/2015-01-gut-bacteria-affect-brain-health.html>
- Paper: <http://online.liebertpub.com/doi/full/10.1089/jmf.2014.7000>

Gray, gunky goo killing hundreds of birds in San Francisco Bay

- http://hosted.ap.org/dynamic/stories/U/US_BIRDS_MYSTERY_COATING

Oil spill into the Yellowstone River forces Montana town to truck in safe drinking water

- <http://news.yahoo.com/crews-clean-oil-spilled-eastern-montana-pipeline-154746319.html>
- Old pipeline concerns: http://hosted.ap.org/dynamic/stories/U/US_PIPELINE_SPILL

To combat threats to health and the food safety, researching the DNA of antibiotic resistance

- http://feedstuffs.com/story-researchers-trace-superbug-genes-45-122854-nl_58_nlr_108

Los Angeles to install “EQ resistant” pipelines imported from Japan (video)

- <http://www.nbclosangeles.com/news/local/LA-Installs-Shake-Resistant-Water-Pipes-at-Epicenter-of-1994-Northridge-Upheaval-288863261.html>

Coastline continues to erode....big surprise...despite massive & expensive human efforts

- http://www.philly.com/philly/news/new_jersey/20150118_The_long_expensive_battle_for_N_J_s_receding_coastline.html

Government report says tiger population in India has increased since 2010

- <http://news.yahoo.com/indias-tiger-population-jumps-095345786.html>

Lack of training for volunteers may cause harm in the wake of natural disasters

- <http://www.healthcanal.com/public-health-safety/49091-untrained-volunteers-may-do-harm-as-well-as-good-during-disasters-johns-hopkins-study-finds.html>