Do you know of a colleague and/or student who would be interested in receiving this Bulletin Board? 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 listing.

Not quite “Where’s Waldo” but can you identify these features/locales in satellite view? (video)
- http://www.esa.int/spaceinvideos/Videos/2014/06/Where_is_it

William “Stata” Smith map that changed the world is 200 years old

Cause of EQ cluster in Irving, Texas, is still being debated

The Petrichlor Effect explains why we can smell the rain coming

EQs in Connecticut? a small swarm is being monitored

How to assess a caldera without making it erupt

Was 2014 the warmest year on record? Well, maybe….but more likely not!

Species on land are going extinct, but what is happening in the ocean?

Isotopic “memory” in ancient rocks give us clues to the nature of the ancient atmosphere

USGS: Oso Landslide research paves way for future landslide hazard evaluations

Human actions induce earthquakes….pumping CO2 underground may trigger more
- https://www.sciencenews.org/article/pumping-carbon-dioxide-deep-underground-may-trigger-earthquakes

Hottest volcanoes in the world? Depends on what you are measuring
When the big dinosaurs died out, they did it “quickly” in Europe
  • http://www.sciencecodex.com/dinosaurs_wiped_out_rapidly_in_europe_66_million_year_s_ago-148767

Info-graphic on the six greatest mass extinctions over geologic time
  • http://theweek.com/articles/532964/theworst-mass-murderers-history-planet

What you need to know about the “Geocorps America” program
  • http://www.earthmagazine.org/article/geocorps-america-putting-geoscientists-work-federal-lands

One of the rarest minerals on Earth discovered in meteorite crater in Wisconsin
  • http://www.astrobio.net/news-brief/rare-mineral-found-wisconsin-crater/

Myths perpetuated about diamonds at Crater of Diamonds State Park in Arkansas

Rethinking the portion of the San Andreas that creeps…it may be capable of generating EQs
  • http://www.livescience.com/49435-san-andreas-fault-less-creepy.html

If it is to be a geological epoch, the time-marker for the Anthropocene should be set at 16 July 1945
  • http://www.sciencedaily.com/releases/2015/01/150115083044.htm
  • Related: http://www.history.com/topics/world-war-ii/trinity-test

Views of the Alaskan coast from NASA’s Shore Zone program may be critical if an oil spill occurs
  • http://www.fisheries.noaa.gov/stories/2014/12/alaska_shorezone.html

Criticisms being levied against test methods for ensuring that ballast waters do not carry disease-causing organisms
  • http://news.sciencemag.org/biology/2015/01/tests-used-ensure-ships-don-t-carry-deadly-cargo-draw-sharp-criticism

Using urban noise to aid seismic analysis of geologic structures

New NASA SMAP mission to be launched at the end of January to monitor soil moisture
  • http://www.spacedaily.com/reports/NASA_Satellite_Set_to_Get_the_Dirt_on_Soil_Moisture_999.html

New species of “sulfate-breathing” microbes discovered beneath the floor of the ocean
  • http://www.sciencedaily.com/releases/2015/01/150115091910.htm

“warming” is result of technical difficulties in the instrumentation….not the climate in the mountains
  • http://www.technology.org/2015/01/13/mountain-system-artificially-inflates-temperature-increases-higher-elevations/
Exploring the fossil filled graveyards and flooded caves of Madagascar (video)
• http://cavingnews.com/20150112-watch-madagascar-karst-exploration-project

Fossil in the back yard is recognized as new 430 million year old species of scorpion
• http://news.yahoo.com/ancient-scorpion-had-feet-may-walked-ocean-132529198.html

A microscopic look at gemstones and their inclusions

Improved measurements and estimates of the sizes of large marine organisms (video)
• http://www.ibtimes.com/sizing-ocean-giants-new-study-25-marine-species-reveals-how-big-they-can-get-1783010

New ichthyosaur fossil found in Scotland….dates from 170 million years ago…Nessie’s cousin
• http://www.huffingtonpost.com/2015/01/12/loch-ness-monster-cousin_n_6452810.html

More number crunching….have they now correctly calculated 20th century sea level rise?

Iceland tries drilling directly into the source of hot waters for geothermal energy
• http://www.cnbc.com/id/102261363

The political football that is the Keystone XL Pipeline

Mass die-offs of birds, fishes and marine invertebrates increasing in number & severity

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Enviro-Sciences Bulletin Board – 19 January 2015 – compiled by Elaine J. Hanford
Compilation of selected current news articles pertinent to the discipline:

Ebola: model predicts end of epidemic in Liberia by end of June….Let’s hope the model is right
• http://www.sciencedaily.com/releases/2015/01/150113184148.htm

FREE online course (26 Jan – 7 Mar 2015): impact of infectious disease on sustainable animal-based food production taught by University of Illinois at Urbana-Champaign Veterinarians
• https://www.coursera.org/course/sustainablefood

New FEMA flood maps now in effect for Fargo, North Dakota – flood insurance will be required

New, fast method for determining antibiotic resistance in bacteria
• http://sciencenordic.com/fast-method-determining-antibiotic-resistance

Once again…the proposed solution to drought in one place is to take water from somewhere else

The scientific method is good…but in practice, there are reasons why science does not work well
• https://www.sciencenews.org/article/12-reasons-research-goes-wrong

Because of humans, this tree bears 40 kinds of fruit
• http://www.smithsonianmag.com/innovation/a-tree-grows-40-different-types-of-fruit-180953868/

Assessing the impacts and damages caused by a large industrial dairy operation in Washington…a trial is set for March

Half-million acre ranch owned by Ted Turner to help recovery efforts for black-footed ferrets
• http://hosted.ap.org/dynamic/stories/U/US_BLACK_FOOTED_FERRETS_RECOVERY

Disneyland…a place for fun or the ‘perfect storm' for an outbreak of measles

California to set limits for use of some pesticides on food crops

EPA proposes restrictions on chemical dispersants used for oil spills
• http://www.nola.com/environment/index.ssf/2015/01/epa_proposes_revised_standards.html

Gray seals on the coast of Scotland found to harbor pathogen that causes human illness
• http://news.sciencemag.org/biology/2015/01/scotland-s-gray-seals-harbor-common-human-pathogen

Science and Policy: Lack of well-qualified scientific advisers threatens policymaking
• In the UK: http://www.theguardian.com/science/2015/jan/15/scientific-advice-government-ministers-andrew-miller-science
High levels of illegal drug Molly, aka ecstasy, found in surface waters near music festivals highlight drug abuse and pose potential risks to the environment
  •  http://www.sciencedaily.com/releases/2015/01/150114101753.htm

High levels of two potentially hazardous chemicals identified in Oil & Gas wastewater discharge to streams in Pennsylvania
  •  http://www.sciencedaily.com/releases/2015/01/150114101631.htm

Lessons learned about engaging communities and recovering from the Fukushima disaster

Biofuel may be the only option, but burning Yak dung found to pollute household air in Tibet
  •  http://www.sciencecodex.com/yak_dung_burning_pollutes_indoor_air_of_tibetan_households-148934

As renewable resources are maxed out, a challenge remains because “renewable” is not synonymous with “unlimited”
  •  http://www.sciencecodex.com/sustainability_challenged_as_many_renewable_resources_max_out-148877

How to improve the image of pig farming despite the pollution they produce and how much we like bacon!
  •  http://www.earthtimes.org/business/pig-farming-improves-image/2797/

Businesses call for regulations to protect bees from toxic neonicotinoid pesticide

Many species, including these sea turtles, navigate by the magnet field
  •  http://www.livescience.com/49468-turtles-migration-magnetic-field.html

New monitor lizard species discovered for sale in black market in the Philippines
  •  http://www.sciencecodex.com/undercover_researchersExpose_new_species_of_lizard_for_sale_on_philippine_black_market-148935

If it is to be a geological epoch, the time-marker for the Anthropocene should be set at 16 July 1945
  •  http://www.sciencedaily.com/releases/2015/01/150115083044.htm
  •  Related:  http://www.history.com/topics/world-war-ii/trinity-test

Using Google Earth to map environmental conditions and changes

Creating anti-venom for snake bites is complicated by where the snake lives
  •  http://www.sciencedaily.com/releases/2015/01/150114140529.htm
Does screening (16 tests) of asymptomatic adults for nine life-threatening diseases save lives or merely increase "medical care" costs?
- http://www.sciencedaily.com/releases/2015/01/150114205631.htm

Human activities erode soil 100 times faster than natural processes
- http://www.technology.org/2015/01/12/humans-erode-soil-100-times-faster-nature/

Human lust for gold continues to cause destruction of rainforests in South America

Do farmlands need to be rescued from effects a flooding when levees break?
- http://www.technology.org/2015/01/14/rescuing-farmland-flood/

New study quantifies value of photovoltaic rooftop installations across eight states
- http://www.technology.org/2015/01/15/largest-ever-study-quantifies-value-rooftop-photovoltaics/

What to do with all those cigarette butts? Recycle them…

Which is better? Allowing terrorists to cross our borders or giving up some tourist dollars?

Why did the zebra evolve those stripes? (video)

Do nuts in California use more water than people?

City of Des Moines, Iowa, suing surrounding farmers for nitrate pollution in streams

Graduate students investigate a better, more environmentally compatible approach to sewage and pollution in the Caribbean

Groundwater pollution from fracking chemicals also a problem in Australia

Tasmanian World Heritage Wilderness opened to "sensible development"
Containment of domestic cats required in new subdivisions to protect wildlife

Increased risk for severe bird flu in California prompts warning to practice strong biosecurity measures along the Pacific Flyway
- Taiwan culls: [http://www.seeddaily.com/reports/More_birds_culled_as_Taiwan_battles_worst_avian_flu_in_10_years_999.html](http://www.seeddaily.com/reports/More_birds_culled_as_Taiwan_battles_worst_avian_flu_in_10_years_999.html)

CDC issues progress report on Healthcare-associated Infections (HAIs)

Looking to biochar as a cure-all for the degradation that has been wrought upon our soil

Quarantine imposed after two herds in Castro County, Texas, confirmed to have Cattle Tuberculosis

Mass die-offs of birds, fishes and marine invertebrates increasing in number & severity

Old infrastructure & poor management mean New Jersey "loses" 20% of drinking water supply