

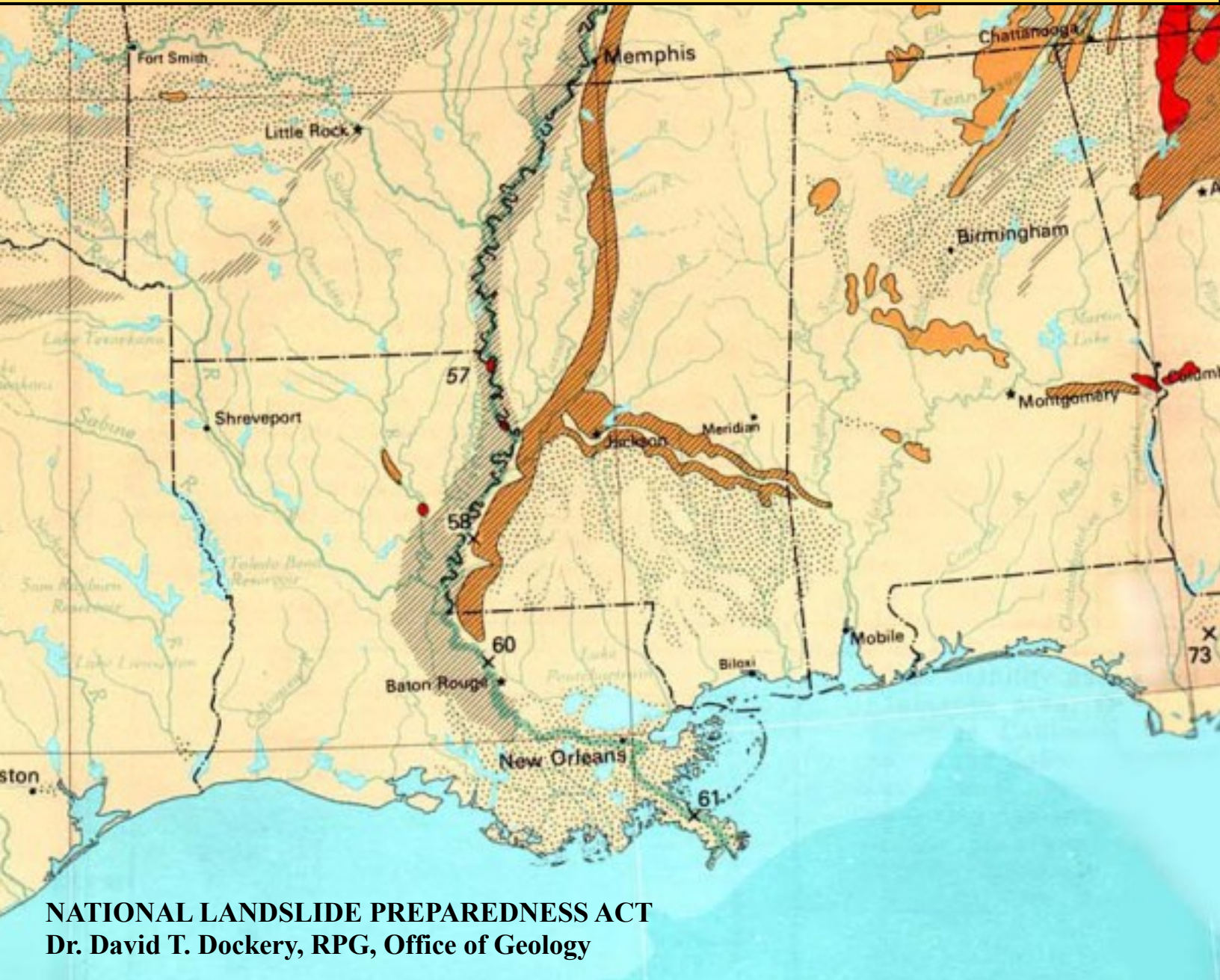
MISSISSIPPI GEOLOGICAL SOCIETY

eBULLETIN

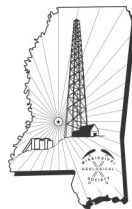
Volume 68

No. 6

April 2020



NATIONAL LANDSLIDE PREPAREDNESS ACT
Dr. David T. Dockery, RPG, Office of Geology



www.missgeo.com



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PRESIDENT'S LETTER

James O. Sparks, RPG



Hope everyone is well and staying at home

As you are aware, the April 8th Boland Scholarship meeting was canceled. We plan to present the scholarship awards at the Spring Fling in May. If that changes, we will let you know.

I know it has been a rough time for everyone, especially the members in the oil and gas industry. Hopefully, everyone can get back to work and demand will increase, and prices will rise.

We have a new vice-president, who will become the 2020-2021 president. David Snodgrass has worked at the Mississippi Oil and Gas Board for over ten years. David is a RPG, in charge of the UIC section.

Everyone, stay safe.



BOLAND SCHOLARSHIP WATCH

Faculty & Students,

Due to the current situation we will not be meeting this month for the scholarship awards. MGS is hopeful that we can honor all our outstanding students at the Spring Fling on May 13th.

Please stay tuned for updates.

We look forward to seeing you all soon.

Best Regards,

Matt Caton
Editor



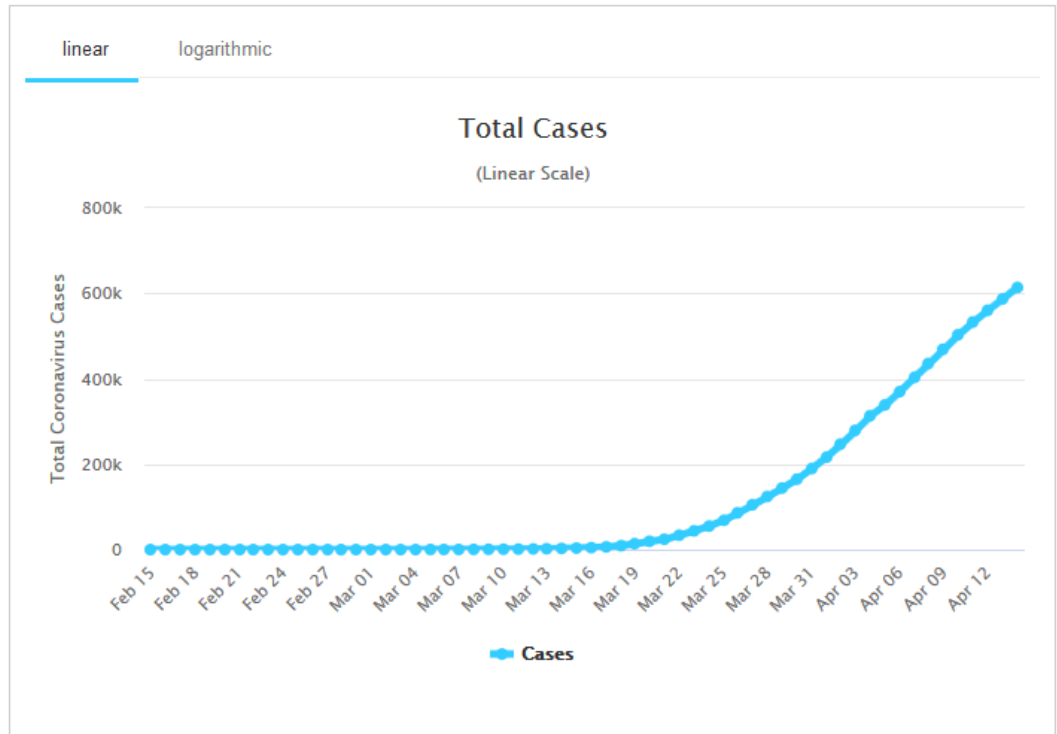
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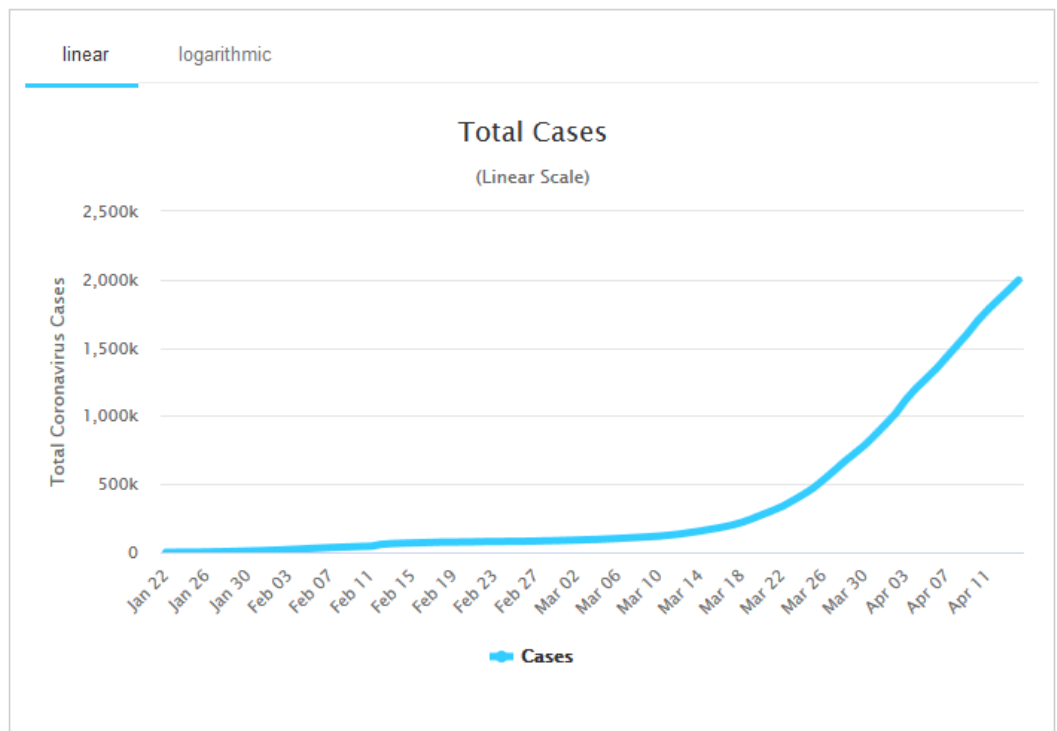
CORONAVIRUS UPDATE

Total Coronavirus Cases in the United States



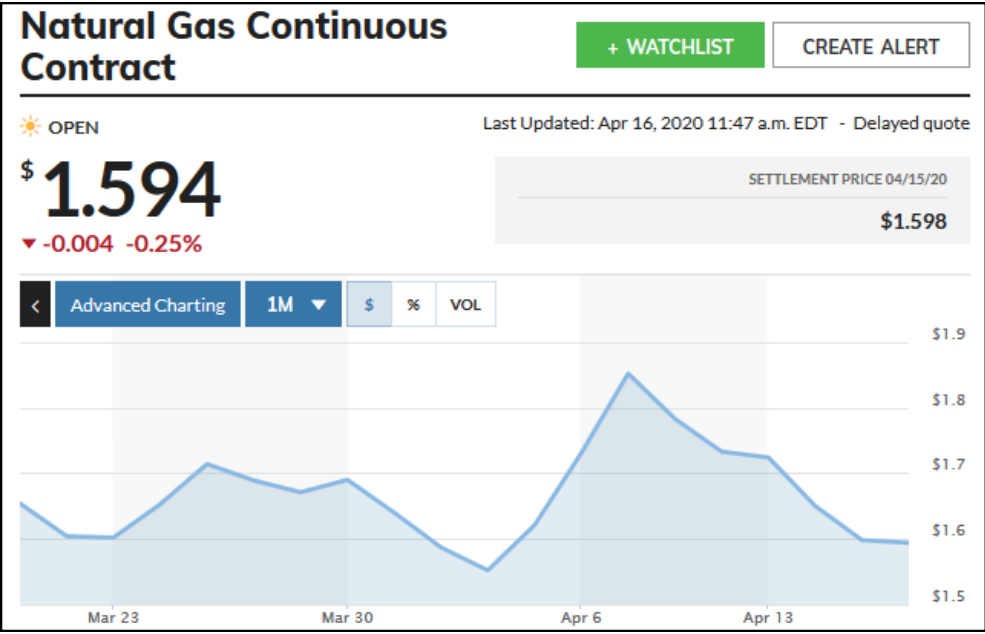
Total Cases (worldwide)

"Total Cases" = total cumulative count (1,998,111). This figure includes deaths and recovered or discharged patients (cases with an outcome).





CURRENT PRICES



Marketwatch





MONTHLY POST

Dr. David T. Dockery III RPG

SENATE REPORT 116-165- NATIONAL LANDSLIDE PREPAREDNESS ACT, 116th CONGRESS 2019-2020

David T. Dockery III, RPG

Mississippi Senator Roger F. Wicker, Chairman of the Senate Committee on Commerce, Science, and Transportation, on December 5, 2019, recommended a bill to the Senate entitled National Landslide Preparedness Act. This bill (S. 529) would “authorize a national program within the U.S. Geological Survey to identify and understand risks and reduce losses from landslide hazards, and to help improve communication and emergency preparedness. The bill also establishes a national 3-Dimensional Elevation Program (3DEP) to update and produce standard, publicly accessible 3D elevation data to access landslide hazards, recognize geologic and environmental hazards, and to identify natural resources.

Background and Needs: “Landslides are geologic hazards that exist throughout the United States. The cost of landslides are significant; the USGS estimate that landslides account for \$2 billion to \$4 billion in damages and, on average, 25-50 fatalities every year. As expansion of urban and recreational development occurs, people are exposed to potential impacts from landslide hazards.”

The question is: Does Mississippi have a landslide problem? Yes, we do, and we’ve had landslide fatalities at Natchez, Mississippi. Figure 1 is the *Landslide Overview Map of the Conterminous United States* (U.S. Geological Society Professional Paper 1183 published in 1982).

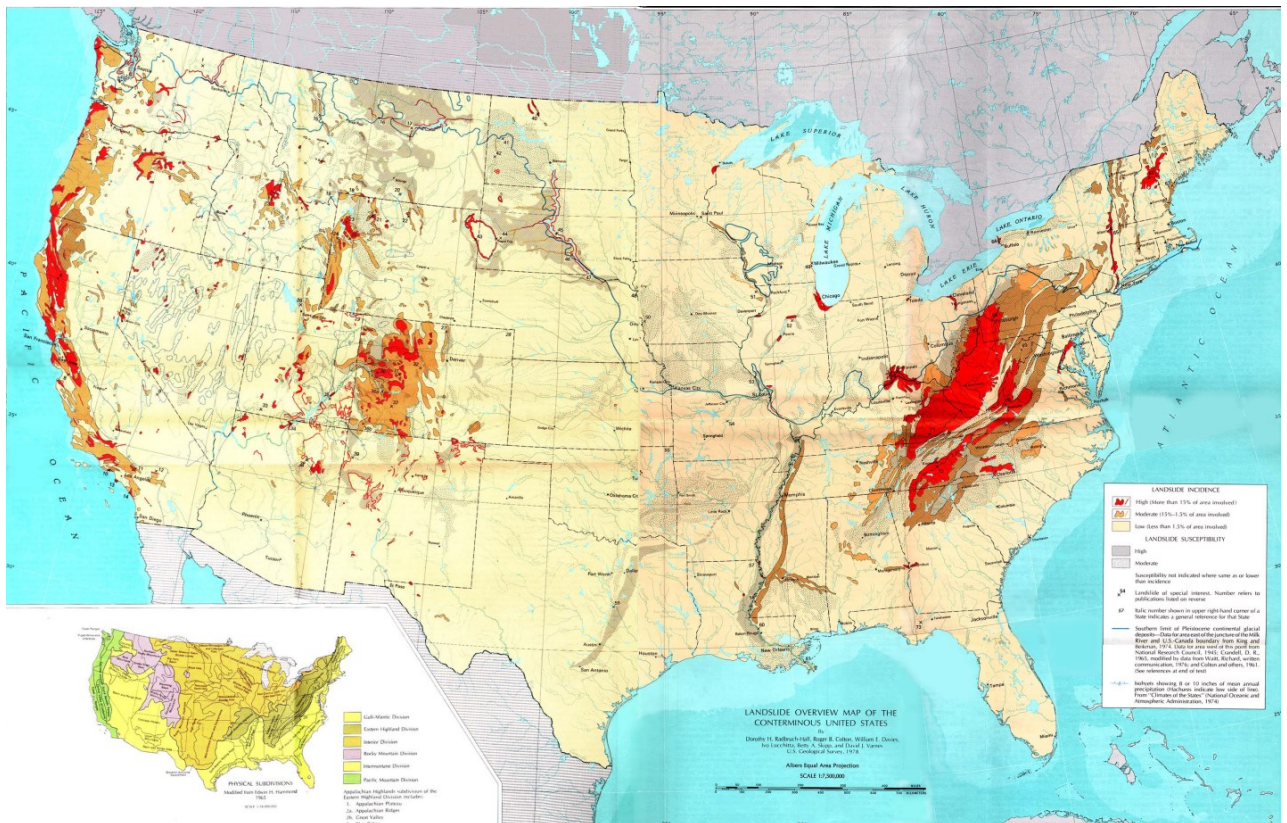


Figure 1



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Dr. David T. Dockery III RPG

Figure 2 is an enlargement of the map's legend and of the State of Mississippi, showing landslide hazard areas in the state. The areas include bluffs along the Mississippi River, the steep terrain along the Mississippi River Alluvial Plain's eastern bluff line and bordering Loess Hills, and the Yazoo Clay outcrop belt across central Mississippi.

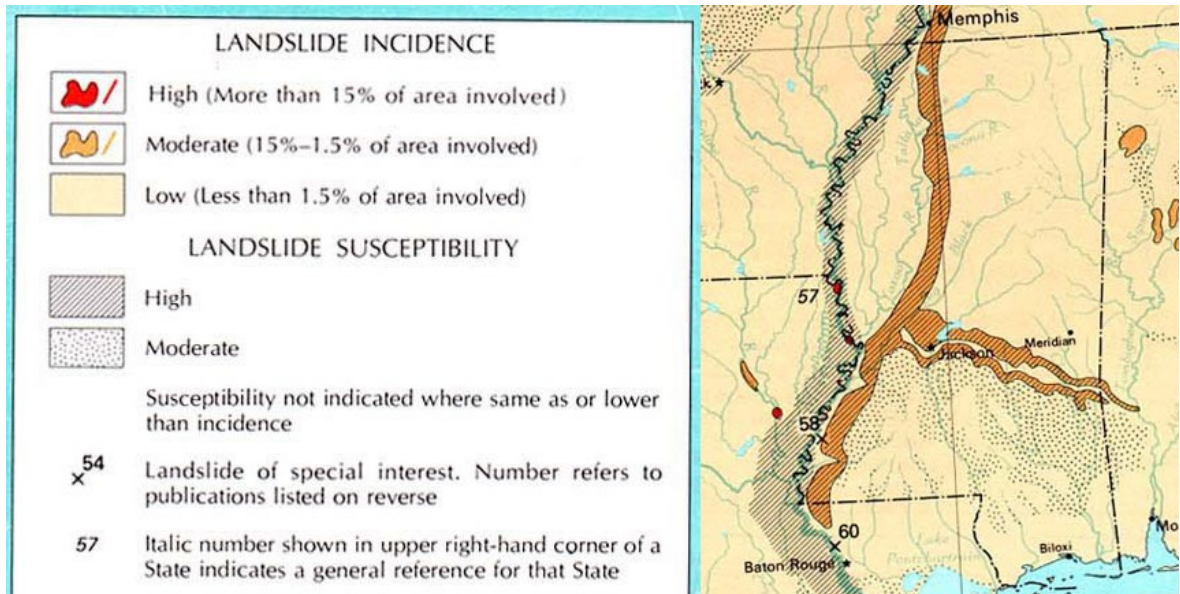


Figure 2

Figure 3 shows two landslides in the Loess Hills around Vicksburg. On the left is a debris flow that traveled across a road in Vicksburg National Cemetery. If the car traveling the road in the picture had come earlier, it could have been buried by the landslide. On the right, a landslide has undercut Highway 80 east of Vicksburg, closing the road. Both pictures were taken on April 3, 2017.



Figure 3



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Figure 4 is an active slump in the Yazoo Clay on the I220 exit ramp to Highway 80 east, creating a miniature landslide lake. A similar slump in the Yazoo Clay is on the Natchez Trace Parkway just west on I-55 and is also blocking drainage.



Figure 4

Figure 5 contains two pictures (provided by Charles Coney of Environmental Management Services) of a slump in the Yazoo Clay behind Dogwood Festival Market in Flowood, Mississippi.



Figure 5



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Dr. David T. Dockery III RPG

Figure 6 is a slump in the Yazoo Clay threatening new homes on the west bank of the Ross Barnett Reservoir. In the composite picture, Jonathan Leard is holding his geologic map of the Madison Quadrangles showing the spot to be mapped as Yazoo Clay.



Figure 6



GEOLOGY POST

ARTICLES, PAPERS or NEWS?

ATTENTION!!!!!! Industry, Professors and Students:

I am adding a dedicated section that includes more content from the industry and our schools.

Submissions can include anything from professional papers, thesis abstracts, job opportunities to pictures. Anything!!!!

If you have any information or news you would like to share with the Society **PLEASE** email them to the MGS Editor at:

mcaton@tellusoperating.com

Thanks & Regards,

Matt Caton
Editor

GEO LINK POST

USGS TAPESTRY OF TIME AND TERRAIN <http://tapestry.usgs.gov> The CCGS is donating to all of the 5th and 6th grade schools in the Coastal Bend. Check it out—it is a spectacular map. You might want a framed one for your own office. The one in my office has glass and a metal frame, and it cost \$400 and it does not look as good as the ones we are giving to the schools. Call Owen 510-6224 if you want one for your office for \$150. Duncan, Mike, Chris, Dave, Bob Randy, Seb., Kevin, Ken, Craig, Patrick, Robert.

FREE TEXAS TOPO'S <http://www.tnris.state.tx.us/digital.htm> these are TIFF files from your state government that can be downloaded and printed. You can add them to SMT by converting them first in Globalmapper. Other digital data as well.

FREE NATIONAL TOPO'S [http://store.usgs.gov/b2c_usgs/b2c/start/\(xcm=r3standardpitrex_prd\)/.do](http://store.usgs.gov/b2c_usgs/b2c/start/(xcm=r3standardpitrex_prd)/.do) go to this webpage and look on the extreme right side to the box titled TOPO MAPS DOWNLOAD TOPO MAPS FREE.

<http://www.geographynetwork.com/> Go here and try their top 5 map services. My favorite is 'USGS Elevation Date.' Zoom in on your favorite places and see great shaded relief images. One of my favorites is the Great Sand Dunes National Park in south central Colorado. Nice Dunes.

<http://antwrp.gsfc.nasa.gov/apod/astropix.html> Astronomy picture of the day — awesome. I click this page everyday.

<http://www.spacimaging.com/gallery/ioweek/iow.htm> Amazing satellite images. Check out the gallery.

<http://www.ngdc.noaa.gov/seg/topo/globegal.shtml> More great maps to share with kids and students.

www.geo.org Don't forget we have our own web page.

<http://micro.magneet.fsu.edu/primer/java/scienceoptiscu/owersof10/>

<http://asterweb.jpl.nasa.gov/galery/default.htm> Great satellite images of volcanoes

<http://terra.nasa.gov/gallery/> More here

www.ermapper.com They have a great free downloadable viewer for TIFF and other graphic files called ER Viewer.

www.drillinginfo.com This is an incredible (subscription) well and completion data service for independents. Can be demo'ed for free.

<http://terraserver.com/> Go here to download free aerial photo images that can be plotted under your digital land and well data. Images down to 1 meter resolution, searchable by Lat Long coordinate. Useful for resolving well location questions.

<http://www.fs.fed.us/gpnl/volcanocams/msh/> This is a live cam of Mt. St. Helens refreshed every 5 minutes. At the bottom are old videos of past eruptions in this cycle. It is worth a watch especially now.



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(Note: Please contact Steve Walkinshaw at (601) 607-3227 or mail@visionexploration.com for details concerning placing your ad on the MGS web site.)

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