

Geoscience in Your State: Maryland

Conservation is the study of the earth and the complex geologic, marine, atmospheric, and hydrologic processes that sustain it and the economy. Understanding the earth's surface and subsurface, its resources, history, and impacts allows one to develop solutions to ensure economic, environmental, health, and safety balance.



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- 41% of private employees are covered self-employed
- 24 million private sector employees in 2007
- 520 million value of value added production in 2007
- 3200 large businesses, including food, chemicals, and IT now listed (1992-2007)
- 534 million VC/PE funds available 2007

- 537 million lire of welfare in production in 2017
- Profitability, market share, and value added

(production, capital, welfare, market share, and value added in 2017)

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2. [Google Analytics Setup Instructions](#) [2]
3. [Google Analytics Setup Instructions](#) [3]
4. [Google Analytics Setup Instructions](#) [4]
5. [Google Analytics Setup Instructions](#) [5]
6. [Google Analytics Setup Instructions](#) [6]
7. [Google Analytics Setup Instructions](#) [7]
8. [Google Analytics Setup Instructions](#) [8]
9. [Google Analytics Setup Instructions](#) [9]
10. [Google Analytics Setup Instructions](#) [10]

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- 8,416 geoscience employees (excludes self-employed)¹
- 295 million gallons/day: total groundwater withdrawal³

- \$379 million: value of nonfuel mineral production in 2017⁴
- 32 total disaster declarations, including 9 flood, 8 hurricane, and 7 snow disasters (1953-2017)⁶
- \$204 million: NSF GEO grants awarded in 2017¹⁴...

Read more in this Geoscience in Your State Factsheet...

Agencies Working on Geoscience Issues in Maryland

Maryland Department of Natural Resources

<https://dnr.maryland.gov/Pages/default.aspx>

The Department of Natural Resources leads Maryland in securing a sustainable future for our environment, society, and economy by preserving, protecting, restoring, and enhancing the State's natural resources.

Maryland Department of the Environment

<https://mde.maryland.gov/Pages/index.aspx>

The mission of the Maryland Department of the Environment is to protect and restore the environment for the health and well-being of all Marylanders.

Maryland Emergency Management Agency

<https://mem.maryland.gov/Pages/default.aspx>

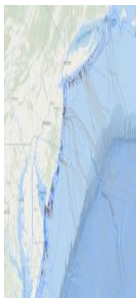
The mission of the Maryland Emergency Management Agency is to ensure that Maryland families, communities, and key stakeholders are provided the tools they need to prepare for, mitigate against, respond to, and recover from the consequences of emergency and disaster events

Maryland Geological Survey

<http://www.mgs.md.gov/>

The Maryland Geological Survey's mission is primarily scientific-investigative, with authorization to conduct topographic, geologic, hydrographic, and geophysical surveys; to prepare topographic, geologic, and other types of maps to meet specific needs; to prepare reports on the extent and character of the geology, minerals, and water resources of the State; and to engage in, sponsor, and coordinate archeological research in Maryland.

Maps & Visualizations



Interactive map of offshore sand and gravel resources of the United States

Bureau of Ocean Energy Management

The Bureau of Ocean Energy Management's Marine Minerals Information System (MMIS) provides an interactive map with information on offshore sand and gravel resources for 18 states on the Atlantic and Gulf coasts of the United States. The system includes: Sand and gravel resources Marine...

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Case Studies & Factsheets

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Present Day Climate Change

Climate Science 101 Climate is the average of weather conditions over several decades.^{1,2} Geoscientists monitor modern climate conditions (1880 A.D. to present) in part by taking direct measurements of weather data (i.e., air temperature, rainfall and snowfall, wind speed, cloudiness, and so on)...

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Webinars & Forums



Offshore Energy

This webinar is based on a Congressional briefing organized by the Advances in Earth Science coalition (16 May 2016). The webinar brings together experts from academia and government to explain the scientific and engineering tools that enable production in challenging environments far from land...

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