

May 25, 2026

News and notes

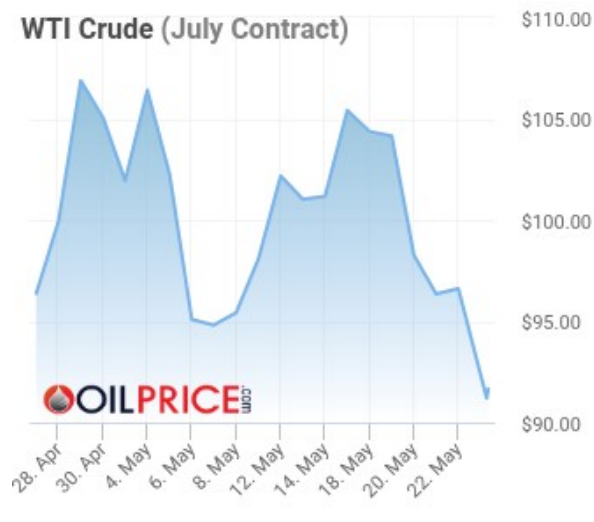
Here are some news items that I thought were interesting. For my news items, I try to stick to open access papers.

If you enjoy my blogs, bookmark the site and check on Mondays rather than relying on social media postings which can get lost in the shuffle. For my news items, I try to stick to open access papers.

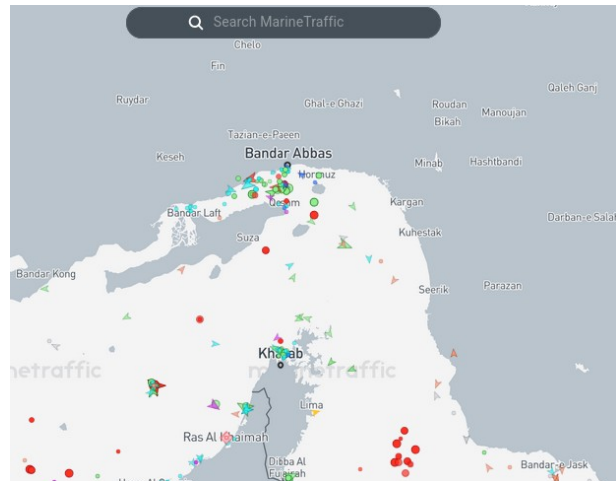
Comments

If anyone has comments on any of my postings, please leave a comment on the LinkedIn page for the posting or email me at raymondreichelt@gmail.com.

Geopolitics



Oil prices up to May 25, 2026
Credit: [Oilprice.com](https://www.oilprice.com)



Marine Traffic in the Strait of Hormuz
Credit: [marinetraffic.com](https://www.marinetraffic.com)

Iran War

- [Ongoing coverage of the Iran War.](#)
- [U.S.-Iran Deal Delayed as Trump Refuses to “Rush” Agreement.](#)
- [LNG tanker exits Hormuz for India for first time since war began.](#)
- [Trump says Iran peace deal is ‘largely negotiated’.](#)
- [Japan To Welcome First Crude Cargo Via Hormuz Since War Began.](#)
- [Oil Prices Rise As Iran Draws Red Line on Uranium.](#)
- [‘This is bad’: Strategists see European oil shortages within weeks as inventories are depleted.](#)

Other Geopolitics

- Civil war approaching? [The Two Britains on the Streets of London](#).
- [Ukraine Hits 300,000-Bpd Gazprom Neft Refinery in Overnight Drone Strike](#).
- [Cuban Crisis Escalating](#).
- [Trump Sending 5,000 Additional Troops To Poland, After Same Number Reduced From Germany](#).
- 05/20 [Supply-security narratives have dominated EU raw materials policy, while demand reduction has been sidelined](#).

Humour

- [The Geology of Middle Earth by Mark Travis, CPG](#); conforms to [NI-43-101](#).
- From Ugo Bardi: [How Scientists are Conspiring to Take Over the World](#).

Research and News

- [Secular Evolution of Mantle Sulfur Isotopes Since the Archean](#).
- [The global distribution of CO₂-rich magmas is determined by lithospheric thickness](#); Phys.org summary [here](#).
- [Volatiles in the mantle below Northern Antarctica: Insights from Deception Island volcano](#).
- [Contrasting behavior of platinum-group elements and Au-Cu during mantle melting and refertilization: Implications for lithospheric metal fertility](#).
- Pegmatites: [Hierarchy of processes for lithium mobility and enrichment in anatectic crust](#).
- [Ultrahigh-pressure acoustic velocities of ferric-iron-rich pyrolite glass: implications for ferric-rich silicate melts in the deep terrestrial interior](#).
- [Phonolite – Carbonate interaction in the Somma-Vesuvius plumbing system: experimental insights into the mechanisms of limestone assimilation, crustal limestone melting and Campanian magma differentiation](#).
- [The Chicxulub impact signature in East Asia](#).
- [Atom probe tomography reveals nanoscale immiscibility as the cause of rare blue coloration of basaltic glass](#).
- [Ferropseudobrookite, armalcolite, pseudobrookite, and the pseudobrookite group](#).
- [Scandium enrichment and release in pyroxene driven by melt and fluid metasomatism: Insights from East Gondwana, Antarctica](#).
- [Lithium Pyroxene Formation Threshold Predicted by Data-Driven Global Bond Valence](#).

- [Quantitative Mapping of Germanium Distribution in Sphalerite: Integration of Raman Spectroscopy and LA-ICP-MS.](#)
- [Integrated perspective on ocean carbon cycle: Untangling facts, fluxes, and fictions.](#)
- [Petrological significance of opaque accessory assemblages to constrain oxygen fugacity in Siderian TTG and Rhyacian sanukitoids from the Mineiro Belt, southern São Francisco Craton.](#)
- [Unconventional water and hydrous mineral formation from dry minerals and H₂ fluids.](#)
- [Floodplain slope organizes chute and neck meander cutoffs across rivers in the Amazon basin.](#)
- 05/19 [Viscosity of Trachytic Melt Constrained by Integrated Rheological and In Situ Spectroscopic Analyses: Insights From the Agnano-Monte Spina Eruption \(Campi Flegrei, Italy\).](#)
- [Neogene palaeo-drainage divide in western Amazonia \(Madre de Dios Basin, Peru\): provenance evidence and implications.](#)
- [Combining microstructural analysis and in situ apatite–zircon U–Pb LA-ICP-MS to date fluid flow in world-class orogenic gold deposits: A case study from Oko West, Guyana.](#)

Planetary Geology

- [Hydraulic geometry hypothesis allows reverse engineering of 3D quasi-equilibrium landscapes from 2D channel networks: Earth, Mars, Titan.](#)
- Melting Martian basalt for fun and science: [Temperature dependence of magmatic iron redox speciation to 2100 °C.](#)

Plate Tectonics

- [Revealing the nature of mid-mantle discontinuities through global interrogation of SS precursors versus P-to-S conversions.](#)
- [Fine-Scale Structure and Kinematics of an Active Submarine Strike-Slip Fault From Micro-Bathymetric Mapping and Analog Modeling: The North Alfeo Fault Offshore Catania \(Eastern Sicily\).](#)
- [Syn-tectonic deposition during final closure of the Mozambique Ocean: the Ediacaran Fara Formation in northern Oman.](#)
- [Depth-Integrated Boron Inventories of Subducting Oceanic Plates: New Insights From Sediments and Altered Oceanic Crust at ODP Sites 1179, 1173, and DSDP Site 443.](#)
- [The Impact of Erosion Efficiency on Rift-Inversion Orogen Evolution: Implications for Serpentinization-Derived Natural H₂ Resources.](#)
- [Depositional Setting of Eastern Sakarya Zone \(NE Türkiye\): Late Cretaceous–Paleogene Period Biostratigraphy, Sedimentology and Tectono-Sedimentary Basin Evolution.](#)

Paleontology

- [A new earliest Paleocene forest floor fossil leaf site in the Denver Basin, Colorado.](#)
- [First dipnoan remains from the Late Triassic of Frick \(Switzerland\) and the re-evaluation of lungfish palaeobiogeography controls in the Late Triassic.](#)
- [Morphological differences are predicted by geographic location for Maastrichtian *Gunnarites* from the James Ross Basin, Antarctica.](#)
- [Drivers and mechanisms of convergent forelimb reduction in non-avian theropod dinosaurs;](#) Phys.org summary [here](#).
- [Discovery of White Sea assemblage fossils from Laurentia.](#)
- [A new pan-shinisaur lizard \(Anguimorpha\) from the lower Campanian of Villeveyrac \(Hérault, France\).](#)
- [Discovery of White Sea assemblage fossils from Laurentia;](#) summary in The Conversation [here](#).
- [Early fossil eukaryotes were benthic aerobes;](#) Phys.org summary [here](#).
- [Endemism that never was? Australian swordfish-like pachycormiform in the Northern Hemisphere.](#)
- [First evidence of co-occurrence of multituberculate and eutherian mammals in the Cretaceous of Western Europe – palaeobiogeographical implications.](#)
- [New early Oligocene water frog \(Anura, Ranidae, *Pelophylax*\) occurrence from south-eastern France.](#)
- [A New Regurgitalite from the Early Eocene of Wyoming \(USA\) Provides Evidence for Predation on “Armored” Glyptosaurid Lizards and Diurnal Behavior of Early Owls.](#)
- [Arctic ecosystems shaped mammalian dispersal and diversification before the Cretaceous–Paleogene mass extinction;](#) Phys.org summary [here](#).
- [First occurrences of the early Cambrian armoured lobopodian *Quadratopora* from South Australia and Kazakhstan.](#)

Ore Deposit and Energy Geology

- [Mineralogical and geochemical constraints on lithium enrichment in Permian Liangshan Formation claystones, Puyi Area, northwestern Guizhou, South China.](#)
- [Kaolinite genesis and the formation of REE ion adsorption deposits.](#)
- [On lithium, alteration and gangue mineral assemblages in Australian Li-pegmatites: hyperspectral mineralogy for orebody characterisation.](#)
- [Gold mobility in subduction zones, the slab perspective.](#)

- [Ore-controlling structural characteristics, tectonic stress field evolution, and their coupling relationship with mineralization in the Xiazhuang uranium ore field, South China.](#)
- [Decadal record of continental H₂ reservoirs reveals potential for subsurface microbial life and natural H₂ exploration](#); Phys.org summary [here](#).
- [The Pharynic System Cu-Mo-Au of Northern Greece: Decismatic Types, Mineralogy, Geochemistry and Dynamic SGEPY](#); in Greek, so use the translate function on your browser.
- [The geochemistry of Ga, Ge and In in magmatic–hydrothermal tin–polymetallic deposits of the Herberton Mineral Field, Australia.](#)

Mining and Energy

- [China probes causes of deadliest coal mine blast since 2009.](#)
- [The regional differences in gasoline prices this Memorial Day.](#)
- Video: [Geologists Find One of the World's Greatest Treasures in Argentina.](#)
- [Bellwether industrial metal copper is trading like an AI stock.](#)
- [New UK North Sea oilfield due on stream imminently.](#)
- [Canada's major projects: How a geologist discovered a deposit of what 'everybody wanted to sell'.](#)
- [Egypt announces biggest Western Desert energy discovery in 15 years.](#)
- I worked at this site in 1987: [Signature Resources pushes Lingman Lake deeper, wider, and further.](#)
- Diminishing returns: [Miners are burning a lot more diesel than four years ago, just for same amounts of now hard-to-get coal.](#)
- [First 32km section of the Netherlands' national hydrogen pipeline network 'activated'.](#)
- Tanzania: [China extends rare earth lead over US and Europe with new discovery in East Africa.](#)
- [Greenland Mines buys rare earth project from Neo Performance for \\$35M.](#)
- Australia: [Arafura approves \\$1.6 billion rare earth project.](#)
- [New UAE pipeline bypassing Hormuz now 50% complete, ADNOC CEO says.](#)
- [Canada Nickel, GeoRedox launch first-of-its-kind hydrogen initiative at Crawford.](#)
- [Op-Ed: Recovering more metal from leach pads is mining's quickest win.](#)
- [Deep geothermal energy in Île-de-France: the results of the Géoscan project.](#)

- [China installs world's largest floating wind turbine in deep water test — it generates enough energy to power 4,200 homes annually.](#)
- [Geothermal 2.0: how superhot rocks underground could help power Australia.](#)
- [Why China rare earth breakthrough in icy northeast could cement global dominance.](#)
- [EU ban on Russian uranium to boost Canadian exports.](#)

Environmental Geology and Hydrogeology

- [Over 40,000 evacuated in California chemical leak as officials warn tank may explode; methyl methacrylate information sheet.](#)
- [Active-Source Environmental Seismology.](#)
- [Urban Sinkholes in Coastal Cities of the Gulf of Mexico: The Interrelation of the Sedimentary Environment and the Urban Infrastructure in Coatzacoalcos, Veracruz, Mexico.](#)
- [Woman arrested after Facebook post over water concerns.](#)
- [New geological maps of Berwick-upon-Tweed to help future-proof natural water supply.](#)
- [Paleo-salt water dominates coastal aquifer salinization: A continental-scale study in China.](#)
- [How depolymerisation could enable infinite reuse of plastics and the circular economy.](#)
- [Shallow groundwater use for agriculture in central Mozambique: Opportunities and constraints in Zambezia Province.](#)
- Nuclear waste storage research: [The Influence of Bedding Orientation and Temperature on the Creep Behavior of Opalinus Clay.](#)

Glaciers and Climate Change

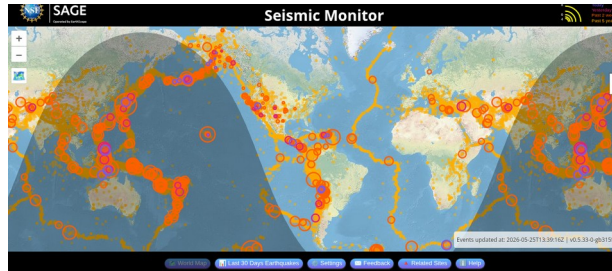
- Lots of recent papers on glaciers in [The Cryosphere](#) from the EGU.
- [Surface Expression of Low Basal Friction Upstream of Antarctic Grounding Lines.](#)
- [Evidence for Eocene aridification of the Atacama Desert's hyperarid core.](#)
- [Glacier Shrinkage in the Peruvian and Bolivian Andes from a Deep Learning-Based Multi-Temporal Inventory \(2016-2024\).](#)
- [Emergent constraints on future methane emissions from global wetlands.](#)
- [Assessing the accuracy of the Climate Trace global vehicular CO2 emissions;](#) SciTechDaily summary [here](#).

Bad Science

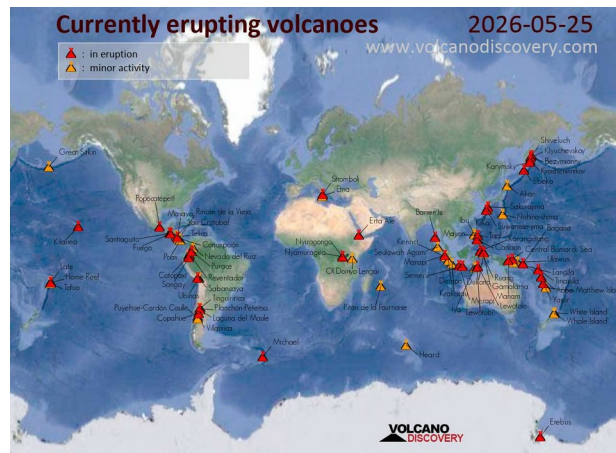
- [Feud between physicists ends in defamation verdict.](#)

- [A key science publishing platform is cracking down on AI slop](#)

Volcanoes, Earthquakes and Geohazards



[Seismic Monitor](#)



[Active Volcano Map](#)

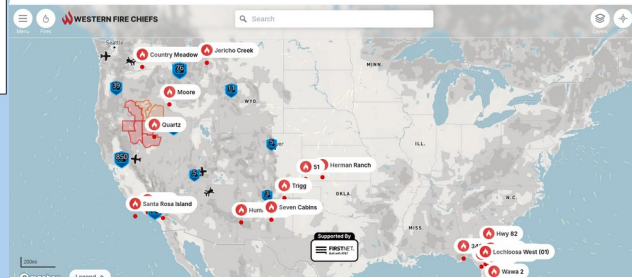
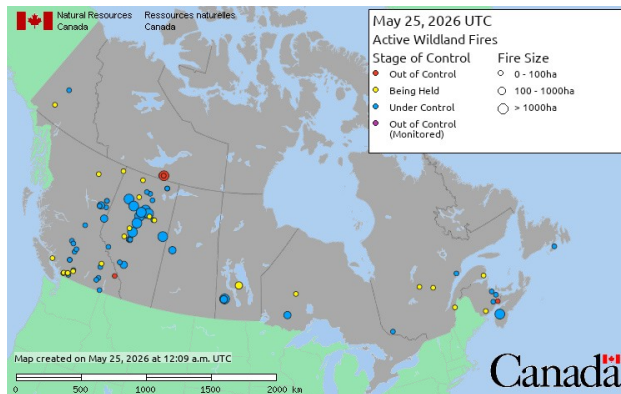
Volcanoes

- [Smithsonian / USGS Weekly Volcanic Activity Report.](#)
- United States Geological Survey (USGS) Volcano Observatories:
 - Yellowstone Caldera Chronicles: [Beyond the bathroom: Top visitor questions in Yellowstone' thermal areas.](#)
 - [Cascades Volcano Observatory Weekly Update.](#)
 - Volcano Watch – [Kilauea is all tied up at 47 episodes.](#)
- [Seismic Constraints on the 3-D Magma Conduit System of Mount Etna.](#)
- NASA Image of the day May 21: [New Eruption in the Bismarck Sea.](#)
- Campi Flegrei: ['The system is likely to reach a breaking point': Major Italian volcano is speeding toward a transition, and a major eruption could be on the way.](#)
- [Tuscany's Famous Geothermal Region Sits Under Thousands of Cubic Kilometers of Magma.](#)

Earthquakes

- [M6 earthquake strikes Hawaii's Big Island; USGS summary here.](#)
- Seismic hazard analysis: [Automated Strong-Motion Record Processing via Deep Learning-Based Simultaneous P-Wave Identification and High-Pass Corner-Frequency Selection](#)
- [Geodetic Resolution of the Interplay Between Earthquakes and Slow Slip in the Hikurangi Margin.](#)

Geohazards



Canadian Wildfire Map [here](#).

USA Wildfire Map [here](#).

- [Seismic Noise Interferometry to Disentangle Environmental Effects from Irreversible Subsurface Changes at the Åknes Rockslide in Western Norway.](#)
- [Simi Valley fire swells to 1,300 acres as it may reach LA County.](#)
- [Tsunami risk in the Mediterranean: why Nice should prepare an evacuation plan.](#)

Free Geology Books and Other Stuff

Free geology books can be downloaded from these sites:

- [OreZone Readers and Experts Telegram Channel](#); the Ore Zone channel also shows employment opportunities for geologists.
- [The Groundwater Project](#) has many groundwater geology books for free download together with free online courses, listed [here](#).
- Free [Groundwater Modelling Courses](#) from the HydroGeoCenter.
- [Lectures on groundwater from the IAH, on YouTube.](#)
- From Western Australia: [Carbonatite, lamprophyre and host rocks in the northern Aileron Province.](#)
- The Geology of Indonesia: [Volume 1](#) and [Volume 2](#).
- Brett Davis' book on veins in a deforming rock mass: "[The Veining Bible](#)"; also at [this site](#).
- From the Mineralogical Society of America: [Handbook of Mineralogy](#).
- [Systematic geochemical classification of felsic igneous rocks of the Yilgarn Craton.](#)

- From the Arizona Geological Survey: [Geochemistry Diagram Generator v 1.0](#).
- Online app: [Australia's full national topographic library at your fingertips](#).

Upcoming Events

- This week: [GAC-MAC 2026 St. John's NL, St. John's Convention Center, May 25-28, 2026](#).
- May 22, 2026 - January 3, 2027, Exhibition at the [Natural History Museum, London, Jurassic Oceans: Monsters of the Deep](#).
- June 2026, [World Geothermal Congress 2026, Calgary Telus Convention Center](#).
- June 9–10, 2026, [Critical Minerals for Defence, Marriott Downtown CF Toronto Eaton Centre](#).
- [PEG2026: 11th International Symposium on Granitic Pegmatites; 16th–19th August 2026, in Perth, Western Australia](#).
- [August 23 – 28, 2026, 24th Annual Conference of the International Association for Mathematical Geosciences, Montreal, Canada](#).
- [14-18 September 2026, IAH 2026, 53rd Congress of the International Association of Hydrogeologists; Budapest Congress Center](#).
- September 24, 2026, [25 years of Extraordinary, Oakridges Moraine Groundwater Program, The Village of Black Creek, 1000 Murray Ross Pkwy, Toronto, ON](#).
- [September 30 - October 3, 2026 SEG 2026 Conference Salt Lake City, United States](#).
- 5 - 7 October 2026 [International Mine Health and Safety Conference 2026, Perth, Australia](#).
- [Paleoamerican Odyssey 2026, October 14-17, 2026, Santa Fe Convention Center, Santa Fe, New Mexico](#).
- [November 2-3, 2026 CCMEC 2026 Victoria Inn Hotel & Convention Centre, Winnipeg, Manitoba](#).
- [12-20 August 2028, Geosciences for Humanity, 38th International Geological Congress, in the BMO Centre, Calgary](#).
- [Society of Petroleum Engineers Distinguished Lecturer Schedule](#).
- [American Geophysical Union List of Upcoming Meetings](#).
- The Geological Society: [Events & Courses](#).
- [Upcoming Distinguished Geoscience Australia Lectures \(DGALs\)](#).

May 25, 2026

Geology and Mineral Resources – Poland

Introduction



Figure 1 – Poland

Credit: Mapsland, Creative Commons Attribution-Share Alike 3.0 Licence

The [Republic of Poland](#) is a country of [39,142,267](#) people in [Central Europe](#) on the south shore of the [Baltic Sea](#). The country has an area of 312,696 square kilometres and borders on: [Russia \(Kaliningrad\)](#) and [Lithuania](#), to the northeast; [Belarus](#) and [Ukraine](#), to the east; [Slovakia](#) and the [Czech Republic](#), to the south; and Germany, to the [west](#).

Poland is a relatively well off country with a per capita [GDP \(PPP\)](#) of \$59,792 and a very high [Human Development Index](#) of 0.906. Poland has a [social market economy](#) and is a member of the [European Union](#) (EU). The largest component of [Poland's economy](#) is the service sector (62.3%), followed by industry (34.2%) and agriculture (3.5%). The [top exports](#) of Poland are motor vehicle parts and accessories, batteries and electric accumulators, automatic data processing machines; furniture, and transport trucks. In January 2026, Poland exported mostly to Germany, the Czech Republic, France, the United Kingdom, and Italy. The top imports of Poland are automobiles, petroleum, motor vehicle parts and medications. Imported come mostly from Germany, China, the United States, Italy, and the Netherlands.

For more details on the country, check out the [Wikipedia](#) and [Grokopedia](#) articles on the country.

Geology



Figure 2 – Geological Setting of Poland

Credit: Figure 1 in [Sowizdzal, 2015](#)

[Poland's geology](#) sits on at the junction of three major geological provinces of Europe: the [East European Craton](#), which includes the [Teisseyre – Tornquist Zone](#) and the [Polish Lowland](#); [the Palaeozoic Platform](#); and the [Carpathian Mountains](#), which includes the [Sudetes Mountains](#), to the west of the Carpathians, and the [Carpathian Foredeep](#), to the northeast.

Figure 3 links to a interactive geology map of [Poland from Macrostrat](#).

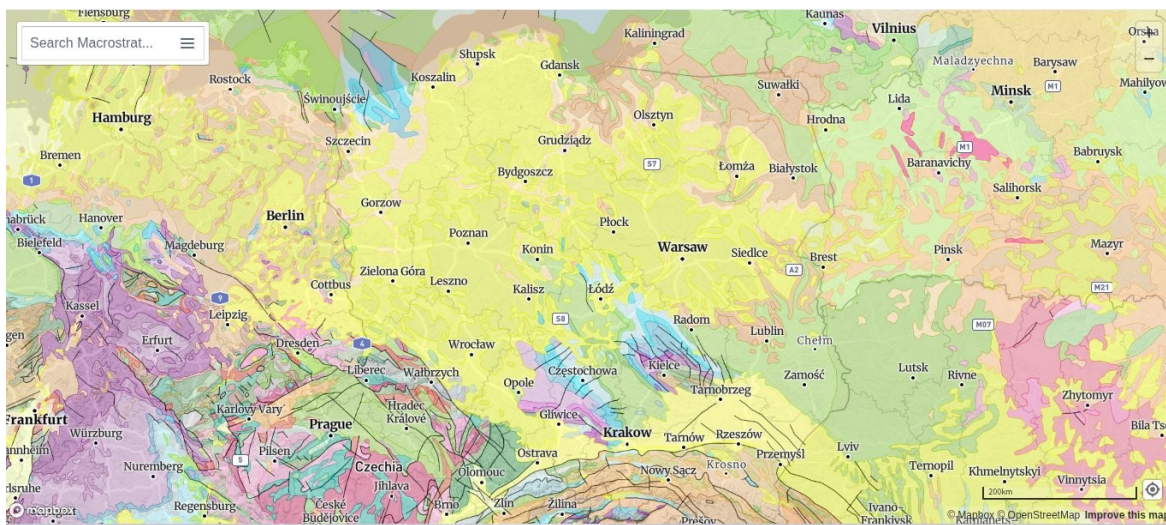


Figure 3 – Interactive Geology Map of Poland

Credit: [Macrostrat, CC BY 4.0](#)

Another way to visualize the geology of Poland is in this [geological model](#) from the [The Polish Geological Institute - National Research Institute \(PGI-NRI\)](#), as shown in Figure 4.

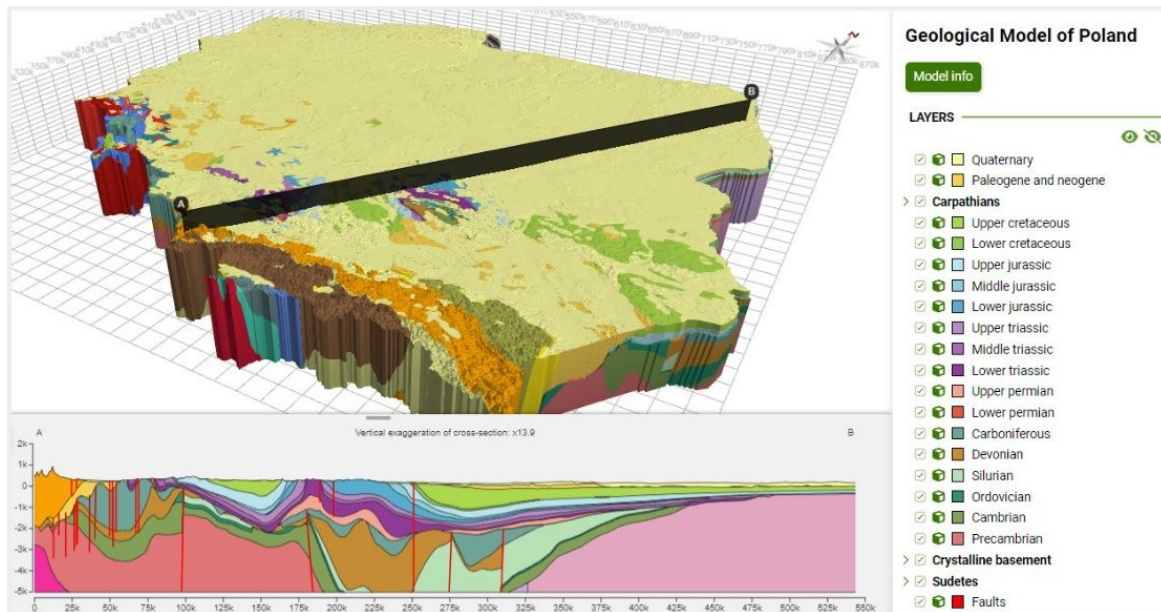


Figure 4 – Geological Model of Poland
Credit: [The Polish Geological Institute - National Research Institute \(PGI-NRI\)](#),
© 2026 [3D Geological mapping](#). All rights reserved

The youngest deposits in Poland are [Quaternary](#) aged [glacial deposits](#) covering most of the Polish Lowland. The [Quaternary deposits](#) overlie [Neogene](#) and [Paleogene](#) aged [deposits in lowlands](#). [Neogene](#) and [Paleogene deposits](#) are also found in the Carpathians including the [Miocene](#) aged [salt deposits of Wieliczka](#).

The geology of the Carpathian Mountains is fairly complex, you can find a link to a [book on the subject](#) here (much of the book is behind paywalls). The [basement](#) rocks of the [Polish Carpathians](#) were formed during the [Variscan Orogeny](#) and consist of crystalline rocks. Overlying the basement rocks are [Paleozoic](#) and [Mesozoic](#) aged sedimentary rocks. The [formation of the Carpathian Mountains](#) involved the deposition of those sedimentary rocks in Paleozoic and Mesozoic sedimentary basin and the subsequent uplift of the rocks into the current mountains during the [Alpine-Carpathian-Dinaridic Orogeny](#). If you think that the Polish Carpathians might be a good place to look for oil, you'd be right. The Carpathian petroleum province [has a long history](#) and the USGS thinks that there might be [potential for more discoveries](#). Interestingly enough, [British and Canadian wildcatters John Simon Bergheim](#) and [William Henry McGarvey](#) were among the [first to drill an oil well in the Carpathian region in 1893](#).

The geology of the [Polish Lowland](#) is somewhat simpler. The [Precambrian](#) aged [basement rocks](#) are [deeply buried](#), but are probably predominately crystalline rocks. Overlying the basement rocks are deposits laid down in [Paleozoic](#) and [Mesozoic sedimentary basins](#). These basins also include [petroleum deposits](#).

Paleontology

With its complex geology and sedimentary basins, Poland has many [fossiliferous formations](#). Here are a few examples:

Saurichthys



Figure 5 – *Saurichthys*

Credit: [Ghedoghedo](#), [Creative Commons Attribution-Share Alike 4.0 International](#) license

Saurichthys was a genus of predatory fish, about a metre long, that lived from the [Triassic](#) to the [Jurassic](#) periods. In Poland, [fossils of Saurichthys](#) were found in the [Middle Triassic](#) aged rocks near [Miedary](#) in southern Poland.

Asaphus



Figure 6 – *Asaphus*

Credit: [Smokeybjb](#), [Creative Commons Attribution-Share Alike 3.0 Unported](#) license

Asaphus was a genus of [trilobites](#) that lived during the [Middle Ordovician](#). [Fossils of Asaphus were found at](#) the Mineral Raw Materials Mine in [Mielenko Drawskie](#), [West Pomeranian Province](#).

Monograptus



Figure 7 – *Monograptus*

Credit: Ghedo, [Creative Commons Attribution-Share Alike 4.0 International](#) license

Monograptus was a genus of [graptolite](#) that lived during the [Ludlow Epoch](#) of the [Silurian Period](#). [Graptolites](#) were colonial marine animals that lived from the [Cambrian](#) to the [Early Carboniferous](#) periods; their fossils resemble pencil scratchings on rock. In Poland, *Monograptus* was [found in a rock core](#) drilled near [Mielnik](#) as well as from the [Mineral Raw Materials Mine in Mielenko Drawskie](#).

Carcharias

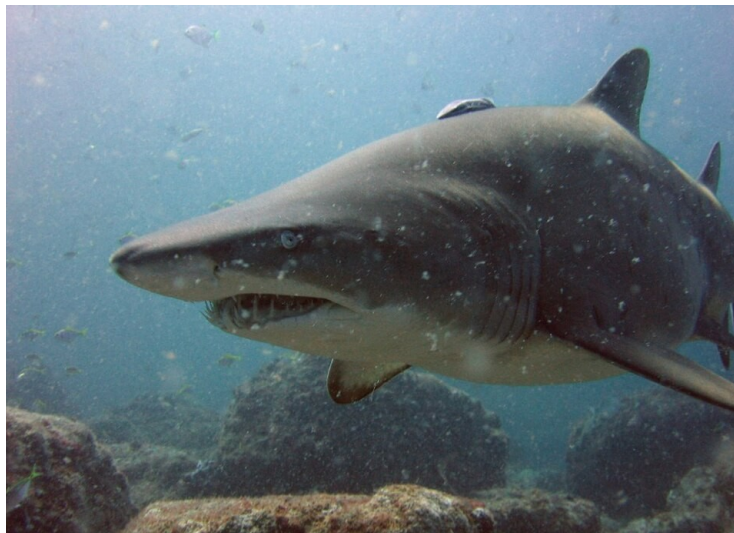


Figure 8 – *Carcharias*

Credit: [Richard Ling](#), [Creative Commons Attribution-Share Alike 2.0 Generic](#) license

A shark that lived during the Miocene Epoch, fossils of *Carcharias* were [found in the Carpathian Foredeep](#). Modern *Carcharias* are [apex predators in the Mediterranean Sea](#).

Mineral Resources



Figure 9 - Gypsum from the Sieroszowice Mine, Lubin, Lower Silesia
Credit: [Ivar Leidus](#), [Creative Commons Attribution-Share Alike 4.0 International](#) license

Poland has a [long history of mineral extraction](#). According to the most recent [USGS Minerals Yearbook \(2019\) for Poland](#), mining and quarrying accounted for 21.7% of the country's GDP. Important commodities produced in Poland include rhenium (accounting for 15.7% of world production), silver (5.5%), and selenium (2.2%, excluding US production). Among the states of the EU Poland was the second largest producer of [bituminous coal](#), third in refined copper production and [lignite](#), and fourth in cement production. Other notable mineral commodities include mined copper, helium, lime, nitrogen (ammonia), peat, salt, industrial sand and gravel, and sulphur. The most recent mineral production statistics from the USGS for Poland are [here](#) and from the Polish State Mining Authority [here](#).

Let look at where some of these minerals come from.

Metallic Minerals

- Copper, gold, lead, rhenium, silver, and selenium are are mined at three mines in the [Lubin-Glogow District](#), all owned by the Polish mining firm, [KGHM Polska Miedz S.A.](#) : the [Lubin Mine](#), the [Polkowice-Sieroszowice Mine](#), and the [Rudna Mine](#). A Canadian/US consortium

recently announced [new discoveries](#) in western Poland. Here are links to a [geochemical study of Polish copper deposits](#) and a study of a new copper region in [south-western Poland \(strangely called the Northern Copper Belt\)](#).

- Lead and zinc were [formerly mined Olkusz](#), in [the Silesian-Cracow region](#). This district has a [long history](#) of metallic mining including arsenic, cadmium, copper, germanium, and iron mining in the [mines near Bytom, Poland](#).

Industrial Minerals

- Cement is [produced at nine plants](#); lime at five plants.
- Gypsum and anhydrite are mined, or have been mined, from [16 deposits in Poland](#).
- Salt is produced from brine extraction and rock salt mines including the [Bochnia Salt Mine](#) and the [Wieliczka Salt Mine](#). The Polish salt mines are [tourist destinations](#) and [tours of the mines](#) are available.
- Sulphur is mined at the [Osiek Sulfur Mine](#).

Fuel Minerals

- There are currently 23 active [coal mines in Poland](#), extracting coal from 48 deposits. Figure 10 links to [a page](#) with an interactive map of coal mines in Poland.

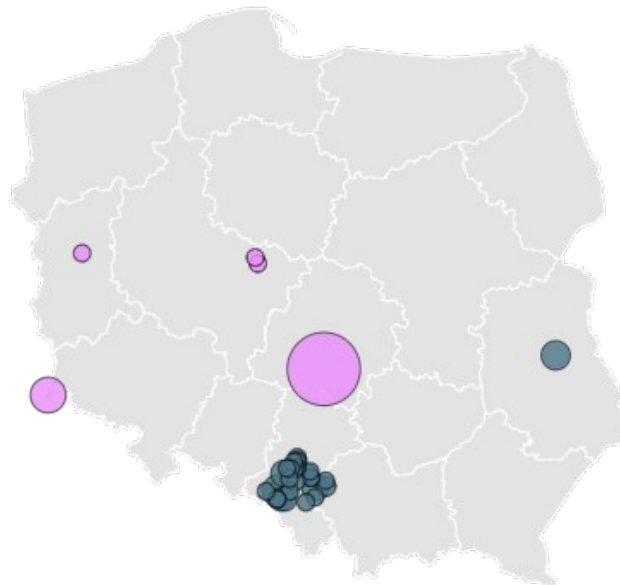


Figure 10 – Interactive Map of Polish Coal Mines
Credit: [energy.instrat.pl](#)

- [Petroleum production](#) in Poland comes from: [the B3 oil field](#) in the Baltic Sea, [the B8 oil field](#) also the Baltic Sea, the [Barnówko-Mostno-Buszewo oil field](#), the [Dębno oil field](#), and the [Lubiatów-Międzychód-Grotów oil field](#).

- [Natural gas](#) is produced from well fields at: the [Daszawa](#), [Dzików](#), [Jasionka](#), [Jodłówka](#), [Kościan](#), [Przemyśl](#), [Radlin](#), [Terliczka](#), [Wola Obszańska](#), and [Żoźnia](#).

Products associated with oil and gas production include helium, and nitrogen fertilizers.

- Helium is produced by the [Polish Oil & Gas Company](#) from wells near [Odolanow](#).
- [Nitrogen ammonia](#) production includes plants at [Chorzow](#), [Wloclawek](#), [Kedzierzyn](#), [Pulawy](#), [Tarnow](#), and [Police](#).

Figure 11 shows the Polish petroleum exploration [concession map](#) as of March 31, 2026.

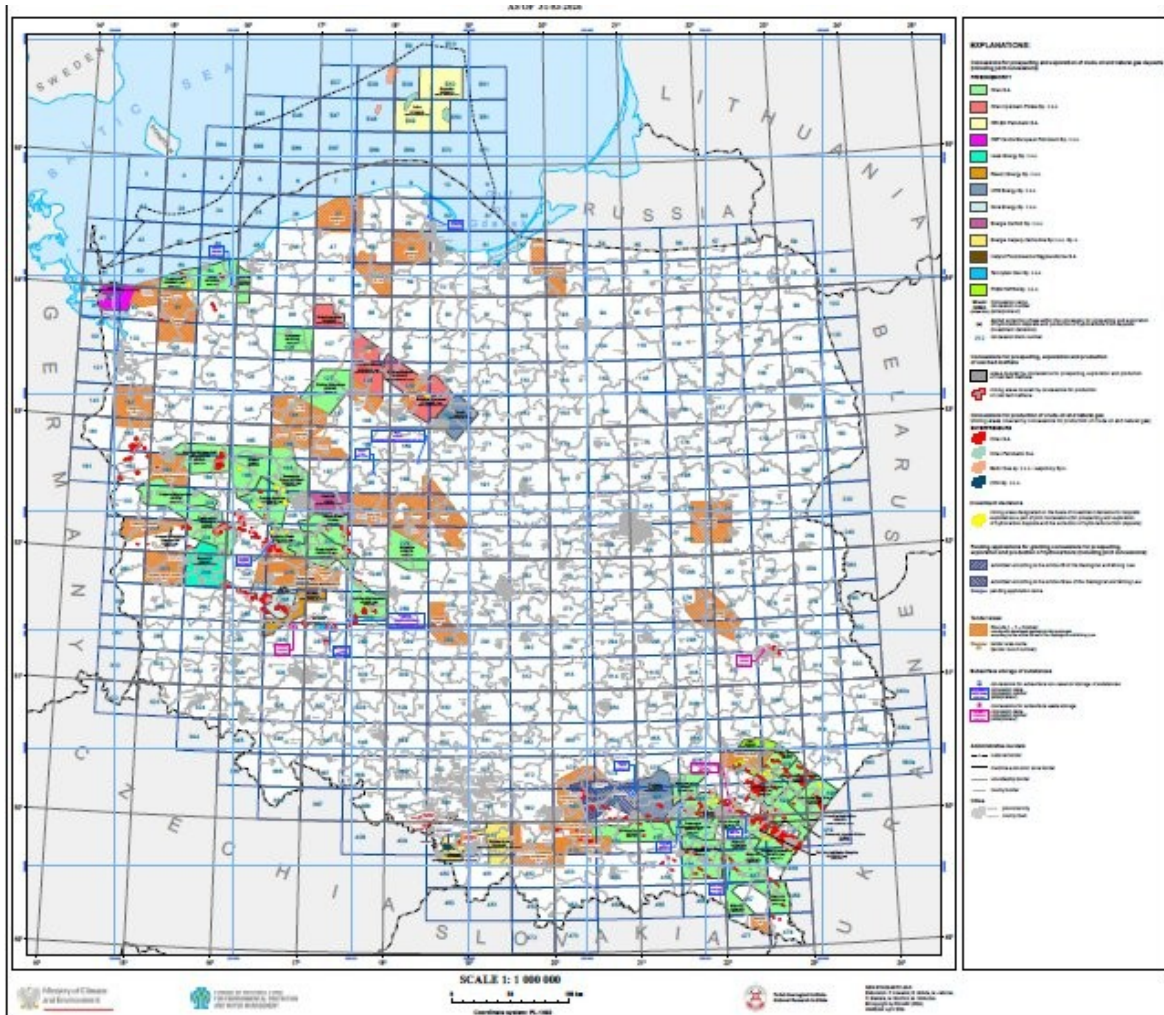


Figure 11 – Hydrocarbon Exploration Concession Map, March 31, 2026
 Credit: © 2026 Copyright: [Polish Geological Institute - NRI](#)

Summary



Figure 12 - Ząbkowice Śląskie, Poland

[Credit: Stary1995, Creative Commons Attribution-Share Alike 3.0 Unported license](#)

Poland looks like an interesting place to visit and hope to go there some day. For geoscientists, there is a lot to see and there is probably good potential for further mineral exploration, despite the fact that people have been extracting mineral resources from the country for a [long time](#) and all the easy pickings are long past.

Overall, I am optimistic for Poland, despite their often [tragic history](#), they seem to be the most vigorous country in Europe for economic and social development. They also have zero patience for [foreign visitors who overstay their welcome](#).

Standard Caveat

[J. Robert Oppenheimer on freedom and scientific inquiry](#)

The purpose of my weblog postings is to spark people's curiosity in geology. Don't entirely believe me until you've done your own research and checked the evidence. If I have sparked your curiosity in the subject of this posting, follow up with some of the links provided here. If you want to, go out into the field and examine some rocks on your own with the help of a good field guide. Follow the evidence and make up your own mind.

In science, the only authority is the evidence.

