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 <p>How do we identify minerals?</p>	<p><b>Color</b></p> <p>First thing noticed. Not all the same.</p>	<p><b>Luster</b></p> <p>how light reflects the surface. metallic or no metallic.</p>	<p><b>Streak</b></p> <p>Color of powder when left behind when scraped across a surface.</p>
<p><b>Cleavage / Fracture</b></p> <p>tendency of mineral to break along flat surface break into irregular pieces.</p>	<p><b>Hardness</b></p> <p>resistance of being scratched. MORIS scale used to describe...</p>	<p><b>Crystal Shape</b></p> <p>Solid in which atoms are arranged in an orderly repeating pattern.</p>	<p><b>Other?</b></p> <p>Density - amount of gas mass in a given volume of the substance.</p>

Why is it important to learn about minerals?

Minerals are used in our every day lives.

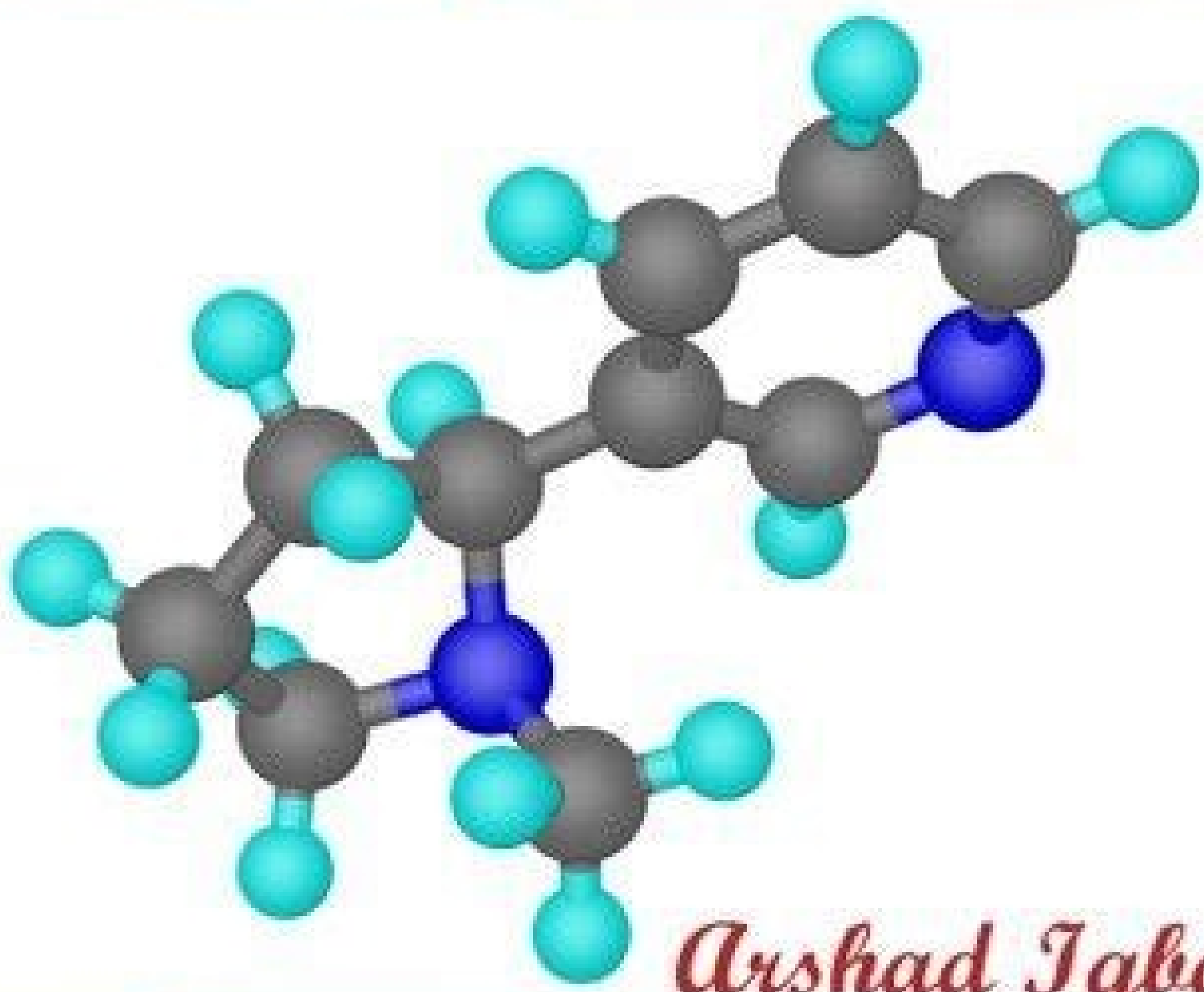
Are minerals a renewable resource?

Why or why not?

minerals are non renewable, it takes longer than a persons life span to be replaced.

© Anita Williams 2011

# 10<sup>th</sup> Grade Chemistry MCQs



Arshad Iqbal

## Multiple Choice Questions and Answers (Quiz & Tests with Answer Keys)

Name \_\_\_\_\_

CH. 7 Science Test

Directions: Write your answer to each process that changes Earth.

1. erosion \_\_\_\_\_
2. climate of weathering \_\_\_\_\_
3. a landslide \_\_\_\_\_
4. deposition \_\_\_\_\_
5. an earthquake \_\_\_\_\_
6. a canyon carved by running water \_\_\_\_\_
7. a volcanic eruption \_\_\_\_\_

Word Bank			
earthquake	weathering	deposition	
	landslide	landforms	

Directions: Complete the sentence with the correct word from the word bank.

1. A \_\_\_\_\_ is a break or crack where Earth's crust can move.
2. \_\_\_\_\_ is the movement of weathered material.
3. \_\_\_\_\_ is the laying down of pieces of rock and soil.
4. A natural feature on Earth is a \_\_\_\_\_.
5. \_\_\_\_\_ is the process that breaks down rocks in Earth's crust into smaller pieces.

Directions: Read each question and choose the best answer.

Then circle the correct answer.







Field scale evaluation of seaweed aquaculture as a nutrient bioextraction strategy in Long Island Sound and the Bronx River Estuary" ^ Khan, M. doi:10.1038/ngeo1765. When the algae die or are eaten, neuro- and hepatotoxins are released which can kill animals and may pose a threat to humans.[34][35] An example of algal toxins working their way into humans is the case of shellfish poisoning.[36] Biotoxins created during algal blooms are taken up by shellfish (mussels, oysters), leading to these human foods acquiring the toxicity and poisoning humans. (2005). "Nitrogen-induced terrestrial eutrophication: cascading effects and impacts on ecosystem services". Minimizing point source pollution from sewage Finnish phosphorus removal measures started in the mid-1970s and have targeted rivers and lakes polluted by industrial and municipal discharges. 360 (6392): 987–992. The increased primary production driving this anoxia is fueled by nutrients supplied by the Mississippi river.[57] A similar process has been documented in the Black Sea.[55] Extent of the problem Eutrophication in a canalSurveys showed that 54% of lakes in Asia are eutrophic; in Europe, 53%; in North America, 48%; in South America, 41%; and in Africa, 28%.[58] In South Africa, a study by the CSIR using remote sensing has shown more than 60% of the reservoirs surveyed were eutrophic.[59] The World Resources Institute has identified 375 hypoxic coastal zones in the world, concentrated in coastal areas in Western Europe, the Eastern and Southern coasts of the US, and East Asia, particularly Japan.[60] Global goals The United Nations framework for Sustainable Development Goals recognizes the damaging effects of eutrophication for marine environments. "Mechanism and control of lake eutrophication". H.; Tilman, G. While there was variety in the longevity, (21 years in deep lakes and 5.7 years in shallow lakes), the results express the effectiveness of alum at controlling phosphorus within lakes.[103] Alum treatment is less effective in deep lakes, as well as lakes with substantial external phosphorus loading.[104] Part of a series onPlankton Trophic mode Phytoplankton Zooplankton Mixoplankton Mycoplankton Bacterioplankton Virioplankton By size Heterotrophic picoplankton Microalgae Microzooplankton Nanophytoplankton Photosynthetic picoplankton Picoeukaryote Picoplankton Marine microp plankton By taxonomy Algae diatoms coccolithophores dinoflagellates Protozoans radiolarians foraminiferans amoebae ciliates Bacteria cyanobacteria Archaea Viruses By habitat Aeroplankton Geoplankton Marine plankton prokaryotes protists Freshwater plankton Other types Gelatinous zooplankton Holoplankton Ichthyoplankton Meroplankton Pseudoplankton Tychoplankton Algal bloom Critical depth Cyanobacterial bloom Eutrophication Great Calcite Belt Milky seas effect Related topics Algaeculture CLAW hypothesis CPR Diel vertical migration Fratio Marine primary production Ocean fertilization iron Paradox of the plankton Planktonic food web Planktonic food web Planktonology Thin layers NAAMES vte History Eutrophication was recognized as a water pollution problem in European and North American lakes and reservoirs in the mid-20th century.[105] Breakthrough research carried out at the Experimental Lakes Area (ELA) in Ontario, Canada in the 1970s [106] provided the evidence that freshwater bodies are phosphorus-limited. Types Cultural eutrophication Cultural eutrophication is caused by human additions of nutrients into the water that cause over growth of algae which can block light and air exchange. -P; Rekolainen, S.; Kauppila, P.; Pitkänen, H.; Niemi, J.; Raateland, A.; Vuorenmaa, J. ISSN 1042-8275. ^ Oglesby, R. doi:10.1002/2016GB005586. doi:10.1126/science.aaa0216. Gill (eds.), Eutrophication: Challenges and Solutions; Volume II of Eutrophication: Causes, Consequences and Control, Springer Science+Business Media Dordrecht. Vol. 47 (NATO Science Series IV: Earth and Environmental Sciences ed.). doi:10.1002/job.10351. In environmental remediation nutrient removal technologies include biofiltration, which uses living material to capture and biologically degrade pollutants. Aerial view of Lake Valencia experiencing a large cultural eutrophication flux due to untreated wastewater discharging into the lake. Terminology Etymology The term "eutrophication" comes from the Greek eutrophos, meaning "well-nourished".[107] Other uses of the term Terrestrial eutrophication Whilst eutrophication is usually referring to aquatic systems, some authors have used the term "terrestrial eutrophication" for terrestrial ecosystems.[108][109] This is defined as "enrichment of an ecosystem with a limiting nutrient" and can be caused by nitrogen deposition on terrestrial ecosystems.[109] For example, atmospheric CO2 fertilization can exacerbate the eutrophication of the boreal forest biome.[108] See also Biogeochemical cycle - Cycling of substances through biotic and abiotic compartments of Earth Ecological Quality Ratio Nitrogen cycle - Biogeochemical cycle by which nitrogen is converted into various chemical forms Trophic state index - Measure of the ability of water to sustain biological productivity Upland and lowland (freshwater ecology) Water Framework Directive References ^ Chapin, F. 25 (1): 53–68. "Lake responses to reduced nutrient loading – an analysis of contemporary long-term data from 35 case studies". Aquaculture, 48 (17): 9977–9979. Science of the Total Environment. 359 (6371). 18 (3): 389–395. In addition light is an essential factor so productivity will be low at depth and in temperate winter when light levels are low [15] Sources of nutrients The sources of excess phosphate are phosphates in detergent, industrial/domestic run-offs, and fertilizers. Philosophical Transactions of the Royal Society B: Biological Sciences. ^ Lürling, Miquel; MacKay, Eleanor; Reitzel, Kasper; Spears, Bryan M. "Controlling eutrophication by combined bloom precipitation and sediment phosphorus inactivation". PMID 15865310. South African Journal of Science. Journal of the American Water Resources Association. ^ Rose JM, Tedesco M, Wikfors GH, Yarish C (2010). Principles of terrestrial ecosystem ecology. Neil; Reis, Stefan; Sheppard, Lucy J.; Jenkins, Alan; Grizzetti, Bruna; Galloway, James N.; Vitousek, Peter (2013). PMID 12077998. ^ Rodhe, W. 1988–1993 Survey of the State of the World's Lakes. doi:10.1126/science.281.5374.217. ^ "Wisconsin Department of Natural Resources" (PDF). ISSN 0962-8452. 111 (5/6). doi:10.1007/978-94-007-7814-6\_5\_W.; Sharpley, A. doi:10.1073/pnas.022447299. The sources may be point sources, nonpoint sources, or both: Agriculture: animal production or crops Urban/suburban: stormwater runoff from roads and parking lots; excessive fertilizer use on lawns; municipal sewage treatment plants; motor vehicle emissions Industrial: air pollution emissions (e.g. electric power plants), wastewater discharges from various industries.[19] Nutrient pollution from some air pollution sources may occur independently of the local land uses, due to long-range transport of air pollutants from distant sources.[20] In order to gauge how to best prevent eutrophication from occurring, specific sources that contribute to nutrient loading must be identified. Increased competition for the added nutrients can cause potential disruption to entire ecosystems and food webs, as well as a loss of habitat, and biodiversity of species.[24] When macrophytes and algae die in over-productive eutrophic lakes, rivers and streams, they decompose and the nutrients contained in that organic matter are converted into inorganic form by microorganisms. ^ Horriqian, L.; Lawrence, R. Carmichael, Ingrid Chorus, Gary Jones, and Olav M. "Dollars and Sense: Economic Benefits and Impacts from two Oyster Reef Restoration Projects in the Northern Gulf of Mexico". F.; Gillespie, P. 97: 1–10. OCLC 1233676585. hdl:1874/348077. "Increasing ocean stratification over the past half-century". Nutrient pollution, a form of water pollution, is a primary cause of eutrophication of surface waters, in which excess nutrients, usually nitrogen or phosphorus, stimulate algal and aquatic plant growth. Proceedings of the National Academy of Sciences of the United States of America. Lake and Reservoir Management. This also affects terrestrial animals, restricting their access to affected water (e.g. as drinking sources). ISSN 1056-3466. "Attempted management of cyanobacteria by Phoslock (Lanthanum-modified clay) in Canadian lakes: Water quality results and predictions". hdl:1813/60811. Environmental Science and Technology. PMID 26250754. "Globally consistent assessment of coastal eutrophication". S2CID 198137333. (1994). (27 November 2017). doi:10.5670/oceanog.2005.45. doi:10.1021/es5036267. ^ a b c Schindler, David W., Vallentyne, John R. (1990). Bibcode:1982JAWRA..18..389K. Toxic compounds can make their way up the food chain, resulting in animal mortality.[33] Freshwater algal blooms can pose a threat to livestock. PMID 28429792. Examples of anthropogenic sources of nitrogen-rich pollution to coastal waters include sea cage fish farming and discharges of ammonia from the production of coke from coal,[48] In addition to runoff from land, wastes from fish farming and industrial ammonia discharges, atmospheric fixed nitrogen can be an important nutrient source in the open ocean. ^ Angold P. "The global nitrogen cycle in the twenty-first century". Nutrients are supplied to coastal waters from land via river and groundwater and also via the atmosphere. 38 (5): 737–744. Laws regulating the discharge and treatment of sewage have led to dramatic nutrient reductions to surrounding ecosystems.[10] Because a major contributor to the nonpoint source nutrient loading of water bodies is untreated domestic sewage, it is necessary to provide treatment facilities to highly urbanized areas, particularly those in developing countries, in which treatment of domestic waste water is a scarcity. 271 (2): 62–68. doi:10.1126/science.aam7240. ^ Wetzel, Robert (1975). 12 (1): 6142. ^ Elser, James J.; Bracken, Matthew E. This process causes shifts in the species composition of ecosystems. Wiley. S2CID 21052483. As a result, creatures such as fish, shrimp, and especially immobile bottom dwellers die off.[31] In extreme cases, anaerobic conditions ensue, promoting growth of bacteria. S2CID 55095122. "The dilemma of controlling cultural eutrophication of lakes". (2001). PMID 17922835. M.; Lurling, M. ^ "eutrophia", American Heritage Dictionary of the English Language (Fifth ed.), Houghton Mifflin Harcourt Publishing Company, 2016, retrieved 10 March 2018 ^ a b Serrouya, Robert; Dickie, Melanie; Lamb, Clayton; van Oort, Harry; Kelly, Allicia P.; DeMars, Craig; McLoughlin, Philip D.; Larter, Nicholas C.; Hervieux, Dave; Ford, Adam T.; Boutin, Stan (2021). doi:10.1016/S0307-904X(98)10001-X. The effects of these eutrophication pressures can be seen in several different ways: increased nutrient loadings and changes in the proportions of key nutrients. F.; Correll, D. T. 103 (12): 4522–4527. The algae eventually are broken down by bacteria causing anoxic conditions and "dead zones". B., Martin, A. In Japan the amount of nitrogen produced by livestock is adequate to serve the fertilizer needs for the agriculture industry.[67] Thus, it is not unreasonable to command livestock owners to collect animal waste from the field, which when left stagnant will leach into ground water. New species invasion Eutrophication may cause competitive release by making abundant a normally limiting nutrient. PMC 2491484. Environmental Pollution (Barking, Essex : 1987). Bibcode:2002PNAS...991395B. Bacterial communities begin to decompose the remains, using up oxygen for respiration. Some nutrients leach into the soil and later drain into surface water. "Nutrients that limit growth in the ocean". 30 (1): 58–69. PMID 16537377. Therefore, nitrogen levels are more important than phosphorus levels for understanding and controlling eutrophication problems in salt water.[46] Estuaries, as the interface between freshwater and saltwater, can be both phosphorus and nitrogen limited and commonly exhibit symptoms of eutrophication. For example, sewage treatment plants can be upgraded for biological nutrient removal so that they discharge much less nitrogen and phosphorus to the receiving water body. C.; MacKenzie, A. Nutrients may become concentrated in an anoxic zone, often in deeper waters cut off by stratification of the water column and may only be made available again during autumn turn-over in temperate areas or in conditions of turbulent flow. "Processes and patterns of oceanic nutrient limitation". E.; Cornwell, J. International Nitrogen Initiative Retrieved from " S2CID 25620329. Other marine animals can be vectors for such toxins, as in the case of ciguatera, where it is typically a predator fish that accumulates the toxin and then poisons humans. Department of Natural Resources, Maryland, U.S. ^ Huang, Wen-Yuan; Lu, Yao-chi; Uri, Noel D. Advanced eutrophication may also be referred to as dystrophic and hypertrophic conditions.[2] Eutrophication can affect freshwater or salt water systems. (1993). S2CID 209578424. This suggests that the most effective means of prevention is from the primary source. doi:10.1016/j.scitotenv.2018.09.139. ^ Bartram, J., Wayne W. ^ a b Glibert, Patricia; Burford, Michele (2017). Scientific Reports. Bibcode:2006PNAS..103.4522K. PMID 29301986. 1, Elsevier. ^ Whiteside, M. The decomposition causes the water to become depleted of oxygen if the water body is not regularly mixed vertically. Bibcode:1974Sci...184..897S. 4 (4): 349–356. Aluminum sulfate, or "alum" as it is commonly referred, is used to reduce the phosphorus load.[102] In a large scale study, 114 lakes were monitored for the effectiveness of alum at phosphorus reduction. PMID 24041525. "Restoring the Black Sea in Times of Uncertainty". "The Norfolk Broadland: Experiments in the Restoration of a Complex Wetland". A.; Dentener, F.; Fennel, K.; Kanakidou, M.; LaRoche, J.; Lee, K. ISBN 978-94-007-7814-6. R.; Capone, D.; Duce, R. PMC 2516213. The eutrophication of areas outside its natural range partially explain the fish's success in colonizing these areas after being introduced. "Cyanobacterial (blue-green algae) toxins and their significance in UK and European waters". Bibcode:2003SciTen.310...47R. Still, studies have shown[66] that the effects of atmospheric nitrogen pollution can reach far past the buffer zone. ^ Grabowski JH, Petersen CM (2007). Journal of the World Aquaculture Society. ^ ILEC/Lake Biwa Research Institute [Eds]. ISBN 0-7216-9240-0. 3. ^ Qin, Boqiang; Yang, Luyan; Chen, Feizhou; Zhu, Guangwei; Zhang, Lu; Chen, Yiyu (2006-10-01). ^ a b Schindler, David W. (2006) "Chironomid overview", pp. doi:10.1029/2009GB003587. Year - Round Ground Cover - a cover crop will prevent periods of bare ground thus eliminating erosion and runoff of nutrients even after the growing season has occurred. "Basic Concepts of Eutrophication". Retrieved 18-03-22. Retrieved 14 October 2020. ^ Shumway, S. Planting Field Buffers - By planting trees, shrubs and grasses along the edges of fields to help catch the runoff and absorb some nutrients before the water makes it to a nearby water body. 4. P.; Mayorga, E.; Bouwman, A. Examples include green belts, riparian areas, natural and constructed wetlands, and treatment ponds. They are usually connected with nutrient enrichment and resulting algal blooms.[11] Climate change will generally tend to increase water column stratification and so exacerbate this oxygen depletion problem.[56] An example of such coastal oxygen depletion is in the Gulf of Mexico where an area of seasonal anoxia more than 5000 square miles in area has developed since the 1950s. R.; Berman-Frank, I.; Bopp, L.; Boyd, P. PMC 3682748. ^ Kennedy, Robert H.; Cook, G. ^ Walker, I. Retrieved June 16, 2021.{ {cite web}}: CS1 maint: url-status (link) ^ Clair N. C.; Owens, M. "Phosphorus control is critical to mitigating eutrophication". doi:10.1007/978-94-007-7814-6\_1. ^ a b Schindler, David and Vallentyne, John R. doi:10.1023/A:1021198721003. doi:10.1080/10402381.2016.1263693. Removal of these nutrients is an expensive and often difficult process. Retrieved 2022-02-09. ISSN 0036-8075. Annual Review of Energy and the Environment. Retrieved 22 September 2018. PMID 18685114. Ecosphere. doi:10.1098/rspb.2012.1032. "Phosphorus in the Environment; Natural Flows and Human Interferences". (2014 ) "Eutrophication of Lakes" in A. doi:10.1111/j.1749-7345.1990.tb00529.x. ^ US EPA, OW (2013). Introduction", in: Toxic Cyanobacteria in Water: A guide to their public health consequences, monitoring and management. Some nutrients run off over the ground into the body of water. Algal blooms limit the sunlight available to bottom-dwelling organisms and cause wide swings in the amount of dissolved oxygen in the water. Shumway, Nature Geoscience. Limnology and Oceanography. ^ "Climate gases from water bodies". doi:10.1002/ecs2.1877. Such blooms are often harmful algal blooms. ^ Nürnberg, Gertrud K. doi:10.1016/j.cub.2017.03.030. Retrieved June 17, 2021.{ {cite web}}: CS1 maint: url-status (link) ^ Duce, R.A; et al. Once translocated to lakes, the extraction of phosphate into water is slow, hence the difficulty of reversing the effects of eutrophication.[13] In marine ecosystems nitrogen and iron are the primary limiting nutrients for the accumulation of algal biomass.[14] but more generally in marine systems nitrogen, phosphorus and iron can all be limiting.[15] The limitation of productivity in any particular aquatic system at any one time varies with the rate of supply of nutrients from external sources as well as nutrient recycling within the water body. This outcome is favored when soluble nitrogen becomes limiting and phosphorus inputs remain significant.[40] Nutrient pollution is a major cause of algal blooms and excess growth of other aquatic plants leading to overcrowding competition for sunlight, space, and oxygen. "Anthropogenic modification of New England salt marsh landscapes". It is important to note that the term eutrophication is widely used by both scientists and public policy-makers, giving it a myriad of definitions. 2. Archived from the original (PDF) on 21 December 2016. 281 (5374): 217–222. 8. doi:10.1016/j.watres.2013.08.019. Reducing the amount of pollutants that reach a watershed can be achieved through the protection of its forest cover, reducing the amount of erosion leeching into a watershed. doi:10.1007/s10452-016-9575-2. There can also be issues with color and smell during drinking water treatment. Later stages of eutrophication lead to blooms of nitrogen-fixing cyanobacteria limited solely by the phosphorus concentration.[45] Coastal waters Further information: Harmful algal bloom § Causes or contributing factors of coastal HABs Further information: Estuary § Implications of eutrophication on estuaries Map of measured Gulf hypoxia zone, July 25–31, 2021-LUMCON-NOAA Oxygen minimum zones (OMZs) (blue) and areas with coastal hypoxia (red) in the world's ocean.[11] Eutrophication is a common phenomenon in coastal waters. doi:10.1007/BF00397431. "Nutrient removal from Chinese coastal waters by large-scale seaweed aquaculture". ISSN 2041-1723. 105 (32): 11039–11040. doi:10.1126/science.1150369. pp. 281–298. doi:10.1111/j.1461-0248.2007.01113.x. hdl:1903/7447. S. ^ MacKay, Eleanor; Maberly, Stephen; Pan, Gang; Reitzel, Kasper; Bruere, Andy; Corker, Nicholas; Douglas, Grant; Egemose, Sara; Hamilton, David; Hatton-Ellis, Tristan; Huser, Brian; Li, Wei; Meis, Sebastian; Moss, Brian; Lürling, Miquel; Phillips, Geoff; Yasseri, Said; Spears, Bryan (2014). Zones where this occurs are known as dead zones. PMC 8536747. ^ a b "Planning and Management of Lakes and Reservoirs: An Integrated Approach to Eutrophication." United Nations Environment Programme, Newsletter and Technical Publications. Nasir; Mohammad, Firoz (2014). Ansari, Abid A.; Gill, Sarvajeet Singh (eds.), "Eutrophication: Challenges and Solutions", Eutrophication: Causes, Consequences and Control: Volume 2, Springer Netherlands, pp. 1–15, doi:10.1007/978-94-007-7814-6\_1, ISBN 978-94-007-7814-6 ^ Wetzel, Robert G. PMID 18487184. The plants beneath the algal bloom die because they cannot get sunlight to perform photosynthesis. ELA uses the whole ecosystem approach and long-term, whole-lake investigations of freshwater focusing on cultural eutrophication. Nature Climate Change. 97: 122–132. "Reduced nitrate leaching and enhanced denitrifier activity and efficiency in organically fertilized soils". "Influence of simulated bivalve biodeposition and microphytobenthos on sediment nitrogen dynamics: A laboratory study".

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