

Click to verify



Immunology. 10: 2518. doi:10.3389/fimmu.2019.02518. ISSN1664-3224. PMC6834528. PMID31736954. ^ "Ozone Regulation". *ec.europa.eu*. Retrieved May 30, 2022. ^ US EPA. OAR (July 15, 2015). "International Treaties and Cooperation of the Stratospheric Ozone Layer". *epa.gov*. Retrieved May 30, 2022. ^ Morrisette, Peter M. (1989). "The Evolution of Policy Responses to Stratospheric Ozone Depletion". *Natural Resources Journal*. 23: 793&20. Retrieved April 20, 2010. ^ An Interview with Lee Thomas, EPA's 6th Administrator. Video, Transcript (see p15), April 19, 2012. ^ "Amendments to the Montreal Protocol". EPA. August 19, 2010. Retrieved March 28, 2011. ^ "Brief Questions and Answers on Ozone Depletion". EPA. June 28, 2006. Retrieved November 8, 2011. ^ "Stratospheric Ozone and Surface Ultraviolet Radiation" (PDF). Scientific Assessment of Ozone Depletion: 2010. WMO. 2011. Retrieved March 14, 2015. ^ Solomon, Susan, etal. (June 30, 2016). "Emergence of healing in the Antarctic ozone layer". *Science*. 353 (6296): 26974. Bibcode:2016Sci...353..269S. doi:10.1126/science.aae0061. hdl:1721.1/107197. PMID27365314. ^ "Ozone Depletion Glossary". EPA. Retrieved September 3, 2008. ^ Fine, Rana A. (2011). "Observations of CFCs and SF6 as Ocean Tracers" (PDF). *Annual Review of Marine Science*. 3: 17395. Bibcode:2011ARMS...3..173F. doi:10.1146/annurev.marine.010908.163933. PMID21329203. Archived from the original (PDF) on February 10, 2015. ^ "ozone layer". National Geographic Society. May 9, 2011. Retrieved September 16, 2021.ScienceAndersen, S. O. (2015). "Lessons from the stratospheric ozone layer protection for climate". *Journal of Environmental Studies and Sciences*. 5 (2): 143162. Bibcode:2015JEnSS...5..143A. doi:10.1007/s13412-014-0213-9. S2CID129725437.Andersen, S.O.; Sarma, K.M.; Sinclair, L. (2012). *Protecting the Ozone Layer: The United Nations History*. Taylor & Francis. ISBN978-1-84977-226-6.Ritchie, Hannah, "What We Learned from Acid Rain: By working together, the nations of the world can solve climate change". *Scientific American*, vol. 330, no. 1 (January 2024), pp.7576. "[C]ountries will act only if they know others are willing to do the same. With acid rain, they did act collectively.... We did something similar to restore Earth's protective ozone layer.... [T]he cost of technology really matters.... In the past decade the price of solar energy has fallen by more than 90 percent and that of wind energy by more than 70 percent. Battery costs have tumbled by 98 percent since 1990, bringing the price of electric cars down with them....[T]he stance of elected officials matters more than their party affiliation.... Change can happen but not on its own. We need to drive it." (p.76.)United Nations Environment Programme (2010). *Environmental Effects of Ozone Depletion and its Interactions with Climate Change: 2010 Assessment*. Nairobi: UNEP.Velders, G. J. M.; Fahey, D. W.; Daniel, J. S.; McFarland, M.; Andersen, S. O. (2009). "The large contribution of projected HFC emissions to future climate forcing". *Proceedings of the National Academy of Sciences*. 106 (27): 1094910954. Bibcode:2009PNAS..10610949V. doi:10.1073/pnas.0902817106. PMC2700150. PMID19549868. S2CID3743609.Velders, Gaus J.M.; Andersen, Stephen O.; Daniel, John S.; Fahey, David W.; McFarland, Mack (2007). "The Importance of the Montreal Protocol in Protecting Climate". *Proceedings of the National Academy of Sciences of the United States of America*. 104 (12): 48144819. Bibcode:2007PNAS..1044814V. doi:10.1073/pnas.0610328104. PMC1817831. PMID17360370.PolicyZaelke, Durwood; Borgford-Parnell, Nathan (2015). "The importance of phasing down hydrofluorocarbons and other short-lived climate pollutants". *Journal of Environmental Studies and Sciences*. 5 (2): 169175. Bibcode:2015JEnSS...5..169Z. doi:10.1007/s13412-014-0215-7. S2CID128974741.Xu, Y.; Zaelke, D.; Velders, G. J. M.; Ramanathan, V. (2013). "The role of HFCS in mitigating 21st century climate change". *Atmospheric Chemistry and Physics*. 13 (12): 60836089. Bibcode:2013ACP....13.6083X. doi:10.5194/acp-13-6083-2013.Molina, M.; Zaelke, D.; Sarma, K. M.; Andersen, S. O.; Ramanathan, V.; Kaniaru, D. (2009). "Reducing abrupt climate change risk using the Montreal Protocol and other regulatory actions to complement cuts in CO2 emissions". *Proceedings of the National Academy of Sciences*. 106 (49): 2061620621. doi:10.1073/pnas.0902568106. PMC2791591. PMID19822751. S2CID13240115.Anderson, S. O.; Sarma, M. K.; Taddonio, K. (2007). *Technology Transfer for the Ozone Layer: Lessons for Climate Change*. London: Earthscan. ISBN9781849772846.Benedick, Richard Elliot; World Wildlife Fund (U.S.); Institute for the Study of Diplomacy. Georgetown University. (1998). *Ozone Diplomacy: New Directions in Safeguarding the Planet* (2nded.). Harvard University Press. ISBN978-0-674-65003-9. (Ambassador Benedick was the Chief U.S. Negotiator at the meetings that resulted in the Montreal Protocol.)Chasek, P. S.; Downie, David L.; Brown, J. W. (2013). *Global Environmental Politics* (6thed.). Boulder: Westview Press. ISBN9780813348971.Grundmann, Reiner (2001). *Transnational Environmental Policy: Reconstructing Ozone*. Psychology Press. ISBN978-0-415-22423-9.Parson, E. (2003). *Protecting the Ozone Layer: Science and Strategy*. Oxford: Oxford University Press. ISBN9780190288716.Wikimedia Commons has media related to Ozone layer.Wikisource has original text related to this article:Ozone layerStratospheric ozone: an electronic textbookOzone Layer Info (archived July 2, 2004)The CAMS stratospheric ozone service delivers maps, datasets, and validation reports about the past and current state of the ozone layer.Retrieved from " ozone layer is one layer of the stratosphere, the second layer of Earths atmosphere. The stratosphere is the mass of protective gases clinging to our planet.The stratosphere gets its name because it is stratified, or layered: as elevation increases, the stratosphere gets warmer. The stratosphere increases in warmth with elevation because ozone gases in the upper layers absorb intense ultraviolet radiation from the sun.Ozone is only a trace gas in the atmosphereonly about three molecules for every 10 million molecules of air. But it does a very important job. Like a sponge, the ozone layer absorbs bits of radiation hitting Earth from the sun. Even though we need some of the sun's radiation to live, too much of it can damage living things. The ozone layer acts as a shield for life on Earth.Ozone is good at trapping a type of radiation called ultraviolet radiation, or UV light, which can penetrate organisms protective layers, like skin. This then may damage DNA molecules in plants and animals. There are two major types of UV light: UVB and UVA.UVB is the cause of skin conditions like sunburns, and cancers like basal cell carcinoma and squamous cell carcinoma.People used to think that UVA light, the radiation used in tanning beds, is harmless because it doesnt cause burns. However, scientists now know that UVA light is even more harmful than UVB, penetrating more deeply and causing a deadly skin cancer, melanoma, and premature aging. The ozone layer, Earths sunscreen, absorbs about 98 percent of this devastating UV light.The ozone layer is getting thinner. Chemicals called chlorofluorocarbons (CFCs) are a reason we have a thinning ozone layer. A CFC is a molecule that contains the elements carbon, chlorine, and fluorine. CFCs are everywhere, mostly in refrigerants and plastic products. Businesses and consumers use them because they're inexpensive. they don't catch fire easily, and they don't usually poison living things. But the CFCs start eating away at the ozone layer once they get blown into the stratosphere. Ozone molecules, which are simply made of three joined oxygen atoms, are always being destroyed and reformed naturally. But CFCs in the air make it very difficult for ozone to reform once its broken apart. The ozone layer, which only makes up 0.00006 percent of Earths atmosphere, is getting thinner and thinner all the time.Ozone holes are popular names for areas of damage to the ozone layer. This is inaccurate. Ozone layer damage is more like a really thin patch than a hole. The ozone layer is thinnest near the poles.In the 1970s, people all over the world started realizing the ozone layer was getting thinner and that this was a bad thing. Many governments and businesses agreed that some chemicals, like aerosol cans, should be outlawed. There are fewer aerosol cans produced today. The ozone layer has slowly recovered as people, businesses, and governments work to control such pollution.

Which layer of the atmosphere contains a protective layer of ozone. Which layer of earth's atmosphere is home to the ozone layer. Which layer of earth atmosphere contains ozone. Which layer of the atmosphere is the ozone layer located. Which layer of atmosphere has ozone layer to prevent the earth from ultraviolet rays. Name the layer of atmosphere which has ozone layer that prevent ultraviolet rays coming to the earth. Which layer of earth's atmosphere contains the ozone layer. Which layer of atmosphere has ozone layer. Which layer of the atmosphere is the ozone layer found in.