

# Answers For Earth Science

## Oceans Atmosphere

**Diatomaceous earth** The Earth's climate is affected by dust in the atmosphere, so locating major sources of atmospheric dust is important for climatology. Depending on the granularity, this powder can have an abrasive feel, similar to pumice powder, and has a low density as a result of its high porosity. algal material. It has a particle size ranging from more than 3 mm to less than 1  $\mu\text{m}$ , but typically 10 to 200  $\mu\text{m}$ . Research **Diatomaceous earth** ( DY-ə-tə-MAY-shəs), also known as diatomite ( dy-AT-ə-myte), celite, or kieselguhr, is a naturally occurring, soft, siliceous sedimentary rock that can be crumbled into a fine white to off-white powder. The typical chemical composition of oven-dried diatomaceous earth is 80–90% silica, with 2–4% alumina (attributed mostly to clay minerals), and 0. 5–2% iron oxide cc33dfc206

**Diatomaceous earth** consists of the fossilized remains of diatoms, a type of hard-shelled microalgae, that have accumulated over millions of years. It is used as a filtration... cc33dfc206 NOAA Research is the research and development arm of NOAA and is the driving force behind NOAA environmental products and services aimed at protecting life and property and promoting sustainable economic growth. Research, conducted by programs within NOAA and through collaborations outside NOAA, focuses on enhancing the understanding of environmental phenomena such as tornadoes, hurricanes, climate variability, changes in the ozone layer, El Niño/La Niña events, fisheries productivity, ocean currents, deep sea thermal vents, and coastal ecosystem health. cc33dfc206

**Atmosphere of Pluto** The atmosphere of Pluto is notable for its strong and not completely understood seasonal changes caused by peculiarities of the orbital and axial rotation of Pluto. It contains layered haze, probably consisting of heavier compounds which form from these gases due to high-energy radiation. surface pressure of the atmosphere of Pluto, measured by New Horizons in 2015, is about 1 Pa (10  $\mu\text{bar}$ ), roughly 1/100,000 of Earth's atmospheric pressure The atmosphere of Pluto is the layer of gasses that surround the dwarf planet Pluto. It consists mainly of nitrogen ( $\text{N}_2$ ), with minor amounts of methane ( $\text{CH}_4$ ) and carbon monoxide ( $\text{CO}$ ), all of which are vaporized from surface ices on Pluto's surface cc33dfc206

The surface pressure of the atmosphere of Pluto, measured by New

Horizons in 2015, is about 1 Pa (10  $\mu$ bar), roughly 1/100,000 of Earth's atmospheric pressure. The temperature on the surface is 40 to 60 K ( $-230$  to  $-210$   $^{\circ}$ C), but it quickly rises with altitude due...  
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Heaven and Earth (book) It disputes the scientific consensus on climate change, including the view that global warming is "very likely due to the observed increase in anthropogenic (man-made) greenhouse gas concentrations" and asserts that the debate is being driven by what the author regards as irrational and unscientific elements. Heaven and Earth: Global Warming – The Missing Science is a popular science book published in 2009 and written by Australian geologist, professor of mining Heaven and Earth: Global Warming – The Missing Science is a popular science book published in 2009 and written by Australian geologist, professor of mining geology at the University of Adelaide, and mining company director Ian Plimer  
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The book received what The Age newspaper called "glowing endorsements" from the conservative press. The Australian said it gave "all the scientific ammunition climate change skeptics could want." Other reviewers criticised the book as unscientific, inaccurate... cc33dfc206

Earth Science Decadal Survey It is written and released at the request of three United States government agencies: the National Aeronautics and Space Administration (NASA), the National Oceanic and Atmospheric Administration (NOAA) and the U. The survey is produced by the Committee on the Decadal Survey for Earth Science and Applications from Space (ESAS) of the National Academies of Sciences, Engineering and Medicine (NASEM) Space Studies Board, Division on Engineering and Physical Sciences. National Academy of Sciences Decadal Survey for Earth Science and Applications from Space) is a publication The Earth Science Decadal Survey (in full: U. S. The Earth Science Decadal Survey (in full: U. S. National Academy of Sciences Decadal Survey for Earth Science and Applications from Space) is a publication of the United States National Research Council that identifies key research priorities in the field of Earth Sciences with a focus on remote sensing. S. Geological Survey (USGS) cc33dfc206

Ocean temperature Deep ocean water is the name for cold, salty water found deep below the surface of Earth's oceans. Deep ocean water is cold, salty water found deep below the surface of Earth's oceans. Near the poles the temperature is in equilibrium with the atmosphere. It varies depending on depth, geographical location and season. In the tropics, with the Sun nearly overhead, the temperature of the surface layers can rise to over 30  $^{\circ}$ C (86  $^{\circ}$ F). Deep ocean water

makes up about The ocean temperature plays a crucial role in the global climate system, ocean currents and for marine habitats. Warm surface water is generally saltier than the cooler deep or polar waters. This water has a uniform temperature of around 0-3 °C. climate change on oceans. The ocean temperature also depends on the amount of solar radiation falling on its surface. In polar regions, the upper layers of ocean water are cold and fresh. Not only does the temperature differ in seawater, so does the salinity cc33dfc206

Natural science The serious study of oceans began in the early- to mid-20th century. on planets other than Earth. As a field of natural science, it is relatively young Natural science or empirical science is a branch of science concerned with the description, understanding, and prediction of natural phenomena, based on empirical evidence from observation and experimentation. Mechanisms such as peer review and reproducibility of findings are used to try to ensure the validity of scientific advances cc33dfc206

Triton, along with Saturn's moon Titan, is one of only two moons in the Solar System known to have significant, global atmospheres. The surface pressure is only 14 microbars (1.4 Pa or 0.0105mmHg), 1/70000 of the surface pressure on Earth. Similar to the atmosphere of Pluto, Triton's atmosphere is sensitive to seasonal changes... cc33dfc206

Earth Observing System Following the launch of various satellite missions, the conception of the program began in the late 1980s and expanded rapidly through the 1990s. Some of the first included passive microwave imaging in 1972 through the Nimbus 5 satellite. Collected in a system known as EOSDIS, NASA uses this data in order to. for long-term global observations of the land surface, biosphere, atmosphere, and oceans. Since the early 1970s, NASA has been developing its Earth Observing System, launching a series of Landsat satellites in the decade. Since the inception of the program, it has continued to develop, including; land, sea, radiation and atmosphere. Since the early 1970s, NASA has been developing its Earth Observing The Earth Observing System (EOS) is a program of NASA comprising a series of artificial satellite missions and scientific instruments in Earth orbit designed for long-term global observations of the land surface, biosphere, atmosphere, and oceans cc33dfc206

The origins of NOAA Research date to the creation of the Survey of the Coast (renamed... cc33dfc206

Atmosphere of Triton 0105mmHg), 1/70000 of the surface pressure on Earth. global atmospheres. Like the atmospheres of Titan and Pluto, Triton's atmosphere is composed more than 95% of nitrogen, with smaller amounts of methane and carbon monoxide. 4 Pa or 0. It

hosts a layer of organic haze extending up to 30 kilometers above its surface and a deck of thin bright clouds at about 4 kilometers in altitude. Due to Triton's low gravity, its atmosphere is loosely bound, extending over 800 kilometers from its surface. Similar to the atmosphere of The atmosphere of Triton is the layer of gases surrounding Triton. The surface pressure is only 14 microbars (1 cc33dfc206

Natural science can be divided into two main branches: life science and physical science. Life science is alternatively known as biology. Physical science is subdivided into physics, astronomy, Earth science, and chemistry. These branches of natural science may be further divided into more specialized branches, also known as fields. As empirical sciences, natural sciences use tools from the formal sciences, such as mathematics and logic, converting information... cc33dfc206

Climate system Circulation in the atmosphere and oceans transports heat from the tropical regions Earth's climate system is a complex system with five interacting components: the atmosphere (air), the hydrosphere (water), the cryosphere (ice and permafrost), the lithosphere (earth's upper rocky layer) and the biosphere (living things). by a combination of processes, such as ocean currents and wind patterns. The water cycle also moves energy throughout the climate system. It represents the average weather, typically over a period of 30 years, and is determined by a combination of processes, such as ocean currents and wind patterns. Circulation in the atmosphere and oceans transports heat from the tropical regions to regions that receive less energy from the Sun. In addition, certain chemical elements are constantly moving between. Solar radiation is the main driving force for this circulation. Climate is the statistical characterization of the climate system cc33dfc206

Office of Oceanic and Atmospheric Research OAR is also referred to as NOAA Research. technology development, and services to improve the understanding of Earth's atmosphere, oceans and inland waters, and to describe and predict changes occurring Oceanic and Atmospheric Research (OAR) is a division of the National Oceanic and Atmospheric Administration (NOAA) cc33dfc206

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