

Earth Science Topics

Outline of Earth sciences

overview of and topical guide to Earth science: Earth science – all-embracing term for the sciences related to the planet Earth. It is also known as geoscience

The following outline is provided as an overview of and topical guide to Earth science:

Earth science – all-embracing term for the sciences related to the planet Earth. It is also known as geoscience, the geosciences or the Earthquake sciences, and is arguably a special case in planetary science, the Earth being the only known life-bearing planet.

Earth science is a branch of the physical sciences which is a part of the natural sciences. It in turn has many branches.

Index of Earth science articles

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Earth science (also known as geoscience, the geosciences or the Earth Sciences) is an all-embracing term for the sciences related to the planet Earth. It is arguably a special case in planetary science, the Earth being the only known life-bearing planet. There are both reductionist and holistic approaches to Earth science. There are four major disciplines in earth sciences, namely geography, geology, geophysics and geodesy. These major disciplines use physics, chemistry, biology, chronology and mathematics to build a quantitative understanding of the principal areas or spheres of the Earth system.

Articles related to Earth science include:

Earth science

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Earth science or geoscience includes all fields of natural science related to the planet Earth. This is a branch of science dealing with the physical, chemical, and biological complex constitutions and synergistic linkages of Earth's four spheres: the biosphere, hydrosphere/cryosphere, atmosphere, and geosphere (or lithosphere). Earth science can be considered to be a branch of planetary science but with a much older history.

Earth in science fiction

is set on or features the Earth, as the only planet home to humans or known to have life. This also holds true of science fiction, despite perceptions

The overwhelming majority of fiction is set on or features the Earth, as the only planet home to humans or known to have life. This also holds true of science fiction, despite perceptions to the contrary. Works that focus specifically on Earth may do so holistically, treating the planet as one semi-biological entity. Counterfactual depictions of the shape of the Earth, be it flat or hollow, are occasionally featured. A personified, living Earth appears in a handful of works. In works set in the far future, Earth can be a center of space-faring human civilization, or just one of many inhabited planets of a galactic empire, and sometimes destroyed by ecological disaster or nuclear war or otherwise forgotten or lost.

Earth and Planetary Science Letters

physical, chemical and mechanical processes of the Earth and other planets, including extrasolar ones. Topics covered range from deep planetary interiors to

Earth and Planetary Science Letters (EPSL) is a bimonthly peer-reviewed scientific journal covering research on physical, chemical and mechanical processes of the Earth and other planets, including extrasolar ones. Topics covered range from deep planetary interiors to atmospheres. The journal was established in 1966 and is published by Elsevier. The co-editors-in-chief are Tristan Horner, Yemane Asmerom, Jean-Philippe Avouac, James Badro, Huiming Bao, Rosemary Hickey-Vargas, Andrew Jacobson, Carolina Lithgow-Bertelloni, Olivier Mousis, Chiara Maria Petrone, Fang-Zhen Teng, Hans Thybo, Alexander Webb.

Austrian Journal of Earth Sciences

original scientific contributions covering a wide spectrum of earth science topics, mainly focusing on Alpine geology and the geology of Central Europe

Austrian Journal of Earth Sciences is a peer-reviewed open access scholarly journal publishing original scientific contributions covering a wide spectrum of earth science topics, mainly focusing on Alpine geology and the geology of Central Europe and Alpine orogens. It is the official journal of the Austrian Geological Society (Österreichische Geologische Gesellschaft). The current editor-in-chief is Michael Wagreich.

Annual Review of Earth and Planetary Sciences

Review of Earth and Planetary Sciences is an annual peer-reviewed scientific journal published by Annual Reviews, which broadly covers Earth and planetary

Annual Review of Earth and Planetary Sciences is an annual peer-reviewed scientific journal published by Annual Reviews, which broadly covers Earth and planetary sciences, including geology, atmospheric sciences, climate, geophysics, environmental science, geological hazards, geodynamics, planet formation, and solar system origins. The co-editors are Katherine H. Freeman (Pennsylvania State University) and Raymond Jeanloz (University of California, Berkeley). As of 2023, it is being published as open access, under the Subscribe to Open model. As of 2025, Journal Citation Reports gives the journal a 2024 impact factor of 13.

Outline of physical science

Branches of chemistry Earth science – all-embracing term referring to the fields of science dealing with planet Earth. Earth science is the study of how

Physical science is a branch of natural science that studies non-living systems, in contrast to life science. It in turn has many branches, each referred to as a "physical science", together is called the "physical sciences".

Branches of science

planetary science. Oceanography, or marine science, is the branch of Earth science that studies the ocean. It covers a wide range of topics, including

The branches of science, also referred to as sciences, scientific fields or scientific disciplines, are commonly divided into three major groups:

Formal sciences: the study of formal systems, such as those under the branches of logic and mathematics, which use an a priori, as opposed to empirical, methodology. They study abstract structures described by formal systems.

Natural sciences: the study of natural phenomena (including cosmological, geological, physical, chemical, and biological factors of the universe). Natural science can be divided into two main branches: physical science and life science.

Social sciences: the study of human behavior in its social and cultural aspects.

Scientific knowledge must be grounded in observable phenomena and must be capable of being verified by other researchers...

Environmental science

of the Earth was partially due to what are now known as greenhouse gases (GHG). The greenhouse effect was introduced, although climate science was not

Environmental science is an interdisciplinary academic field that integrates physics, biology, meteorology, mathematics and geography (including ecology, chemistry, plant science, zoology, mineralogy, oceanography, limnology, soil science, geology and physical geography, and atmospheric science) to the study of the environment, and the solution of environmental problems. Environmental science emerged from the fields of natural history and medicine during the Enlightenment. Today it provides an integrated, quantitative, and interdisciplinary approach to the study of environmental systems.

Environmental Science is the study of the environment, the processes it undergoes, and the issues that arise generally from the interaction of humans and the natural world.

It is an interdisciplinary science...

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