

Cloud Optics Atmospheric And Oceanographic Sciences Library

As of 2016, NRL was a Navy Working Capital Fund activity, which means it is not a line-item in the US Federal Budget. Instead of direct funding from Congress, all costs, including overhead, were recovered... 1423749b73

Ocean color Ocean color is the branch of ocean optics that specifically studies the color of the water and information that can be gained from looking at variations Ocean color is the branch of ocean optics that specifically studies the color of the water and information that can be gained from looking at variations in color. This field of study developed alongside water remote sensing, so it is focused mainly on how color is measured by instruments (like the sensors on satellites and airplanes). The color of the ocean, while mainly blue, actually varies from blue to green or even yellow, brown or red in some cases 1423749b73

Timeline of meteorology Some historical weather events are included that mark time periods where advancements were made, or even that sparked policy change. meteorology contains events of scientific and technological advancements in the area of atmospheric sciences. The most notable advancements in observational meteorology, weather forecasting, climatology, atmospheric chemistry, and atmospheric physics are listed chronologically. The most notable advancements in observational The timeline of meteorology contains events of scientific and technological advancements in the area of atmospheric sciences 1423749b73

There is no consensus on how some academic disciplines should be classified (e.g., whether anthropology and linguistics... 1423749b73

Outline of academic disciplines nucleosynthesis Planetary science Acoustics Aerodynamics Applied physics Astrophysics Atmospheric physics Atomic, molecular, and optical physics Biophysics An academic discipline or field of study is a branch of study, taught and researched as part of higher education. A scholar's discipline is commonly defined by the university faculties and learned societies to which they belong and the academic journals in which they publish research 1423749b73

Disciplines vary between well-established ones in almost all universities with well-defined rosters of journals and conferences and nascent ones supported by only a few universities and publications. A discipline may have branches, which are often called sub-disciplines. 1423749b73

Meteorology It has applications in the military, aviation, energy production, transport, agriculture, construction, weather warnings, and disaster management. The interactions between Earth's atmosphere and its oceans (notably El Niño and La Niña) are studied in Meteorology is the scientific study of the Earth's atmosphere and

short-term atmospheric phenomena (i. e. , weather), with a focus on weather forecasting. the broader field of the atmospheric sciences
1423749b73

List of academic fields That person will be accredited by learned societies to which they belong along with the academic journals in which they publish. However, no formal criteria exist for defining an academic discipline. It is taught as an accredited part of higher education. Thermochemistry See also Branches of earth sciences Atmospheric science Climatology Ecology Edaphology Environmental science Environmental chemistry Forensic geology An academic discipline or field of study is known as a branch of knowledge. A scholar's discipline is commonly defined and recognized by a university faculty 1423749b73

United States Naval Research Laboratory Located in Washington, DC, it was founded in 1923 and conducts basic scientific research, applied research, technological development and prototyping. NRL is one of the first US government scientific R&D laboratories, having opened in 1923 at the instigation of Thomas Edison, and is currently under the Office of Naval Research. The laboratory's specialties include plasma physics, space physics, materials science, and tactical electronic warfare. Oceanographic and Atmospheric Sciences, with special strengths in physical oceanography, marine geosciences, ocean acoustics, marine meteorology, and The United States Naval Research Laboratory (NRL) is the corporate research laboratory for the United States Navy and the United States Marine Corps 1423749b73

The following outline provides an overview of and topical guide to academic disciplines. In each case, an entry at the highest level of the hierarchy (e.g., Humanities) is a group of broadly similar disciplines; an entry at the next highest level... 1423749b73 Along with climatology, atmospheric physics, and atmospheric chemistry, meteorology forms the broader field of the atmospheric sciences. The interactions between Earth's atmosphere and its oceans (notably El Niño and La Niña) are studied in the interdisciplinary field of hydrometeorology. Other interdisciplinary areas include biometeorology, space weather, and planetary meteorology. Marine weather forecasting relates meteorology to maritime and coastal safety, based on atmospheric interactions with... 1423749b73 Most of the ocean is blue in color, but in some places the ocean is blue-green, green, or even yellow to brown. Blue ocean color is a result of several factors. First, water preferentially absorbs red light, which means that blue light remains and is reflected back out of the water. Red light is most easily absorbed and thus does not reach... 1423749b73

Ocean optics The color of the water as seen by satellites is known as ocean color. Ocean optics is the study of how light interacts with water and the materials in water. Knowledge of ocean optics is needed in aquatic remote sensing research in order to understand what information can be extracted from the color of the water as it appears from satellite sensors in space. Although research often focuses on the sea, the field broadly Ocean optics is the study of how light interacts with water and the materials in water. Although research often focuses on the sea, the field broadly includes rivers, lakes, inland waters, coastal waters, and large ocean basins. How light acts in water is critical to how ecosystems function underwater.

While ocean color is a key theme of ocean optics, optics is a broader term that also includes the development of underwater sensors using optical methods to study much more than just color, including ocean chemistry, particle 1423749b73

Science (from Latin scientia, meaning "knowledge") is a systematic enterprise that builds and organizes knowledge in the form of testable explanations and predictions about the universe. 1423749b73

History of science It encompasses all three major branches of science: natural, social, and formal. The medical sciences were prominently cultivated in the Islamic The history of science covers the development of science from ancient times to the present. relied upon as a principal source on the science of optics in Europe until the 17th century. Protoscience, early sciences, and natural philosophies such as alchemy and astrology that existed during the Bronze Age, Iron Age, classical antiquity and the Middle Ages, declined during the early modern period after the establishment of formal disciplines of science in the Age of Enlightenment 1423749b73

Index of branches of science just sciences, can be arbitrarily divided into three major groups: The natural sciences (biology, chemistry, physics, astronomy, and Earth sciences), which The following index is provided as an overview of and topical guide to science: Links to articles and redirects to sections of articles which provide information on each topic are listed with a short description of the topic. When there is more than one article with information on a topic, the most relevant is usually listed, and it may be cross-linked to further information from the linked page or section 1423749b73

Disciplines vary between universities and even programs. These will have well-defined rosters of journals and conferences supported by a few universities and publications. Most disciplines are broken down into (potentially overlapping) branches called sub-disciplines. 1423749b73

Electro-optical MASINT It is essentially the reverse of Adaptive optics, rather than minimizing the effect of atmospheric disturbance, Schlieren detection capitalizes on Electro-optical MASINT is a subdiscipline of Measurement and Signature Intelligence, (MASINT) and refers to intelligence gathering activities which bring together disparate elements that do not fit within the definitions of Signals Intelligence (SIGINT), Imagery Intelligence (IMINT), or Human Intelligence (HUMINT). day 1423749b73

Electro-optical MASINT shares some similarities with IMINT, but is distinct from it. IMINT's primary goal is to create a picture, composed of visual elements understandable to a trained user. Electro-optical MASINT helps validate that picture, so that, for example, the analyst can tell if an area of green is vegetation or camouflage paint. Electro-optical MASINT also generates information on phenomena that emit, absorb, or reflect electromagnetic energy in the infrared, visible light... 1423749b73 The branches of science, also referred to as scientific fields, scientific disciplines, or just sciences, can be arbitrarily divided into three major groups: 1423749b73 The earliest roots of scientific thinking and practice can be traced to Ancient Egypt and Mesopotamia during the 3rd and 2nd millennia BCE. These civilizations' contributions to mathematics, astronomy, and medicine

influenced later Greek natural philosophy of classical antiquity,
wherein formal attempts were made to provide explanations...
1423749b73 The natural sciences (biology, chemistry, physics...
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he-risks_benefits_and_uncertainties-of_the_shale-
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