

Forests At The Land Atmosphere Interface

The United Nations estimate that about 30% of land is degraded worldwide, and about 3.2 billion people... The MODIS instruments were built by Santa Barbara Remote Sensing. They capture data in 36 spectral bands ranging in wavelength from 0.4 μm to 14.4 μm and at varying... Using computational science, wildfire modeling involves the statistical analysis of past fire events to predict spotting risks and front behavior. Various wildfire propagation models have been proposed in the past, including simple ellipses and egg- and fan-shaped models. Early attempts to determine wildfire behavior assumed terrain and vegetation uniformity. However, the exact behavior of a wildfire's front is dependent on a variety of factors, including wind speed and slope... Land terrain varies greatly, consisting of mountains, deserts, plains, plateaus, glaciers, and other landforms. In physical geology...

Land 2% of Earth's surface and includes all continents and islands. Types of forests include rainforests, deciduous forests, and boreal forests. Earth's land surface is almost entirely covered by regolith, a layer of rock, soil, and minerals that forms the outer part of the crust. include land that is predominantly under agricultural or urban use. One-third of land is covered in trees, another third is used for agriculture, and one-tenth is covered in permanent snow and glaciers. Land plays an important role in Earth's climate system, being involved in the carbon cycle, nitrogen cycle, and water cycle. It makes up 29. The remainder consists of desert, savannah, and prairie. Grasslands Land, also known as dry land, ground, or earth, is the solid terrestrial surface of Earth not submerged by the ocean or another body of water

Wildfire suppression Firefighting efforts depend on many factors such as the available fuel, the local atmospheric conditions, the features of the terrain, and the size of the wildfire. Working in conjunction with specially designed aerial firefighting aircraft, fire engines, tools, firefighting foams, fire retardants, and using various firefighting techniques, wildfire-trained crews work to suppress flames, construct fire lines, and extinguish flames and areas of heat in order to protect resources and natural wilderness. Wildfire suppression. suppression also addresses the issues of the wildland-urban interface, where populated areas border with wild land areas. Because of this wildfire suppression in wild land areas usually requires different techniques, equipment, and training from the more familiar structure fire fighting found in populated areas. In the United States and other Wildfire suppression is a range of firefighting tactics used to suppress wildfires

Mangrove forest Mangrove forests live at the interface between the land, the ocean, and the atmosphere, and are centres for the flow of energy and matter Mangrove forests, also called mangrove swamps, mangrove thickets or mangals, are productive wetlands that occur in coastal intertidal zones. from predators. There are about 80 different species of mangroves, all of which grow in areas with low-oxygen soil, where slow-moving waters allow fine sediments to accumulate. Mangrove forests grow mainly at tropical and subtropical latitudes because

mangrove trees cannot withstand freezing temperatures a47a85ae93

Wildfire modeling released by the fire changes the moisture balance of the atmosphere. Wildfire modeling aims to aid wildfire suppression, increase the safety of firefighters and the public, and minimize damage. The water vapor can be carried away, where the latent heat stored in the vapor is released Wildfire modeling is concerned with numerical simulation of wildfires to comprehend and predict fire behavior. Wildfire modeling can also aid in protecting ecosystems, watersheds, and air quality a47a85ae93

Land degradation of environments and ecosystems such as forests, grasslands, deserts, and farmlands. Forests typically have the highest levels of biodiversity, biomass Land degradation is a process where land becomes less healthy and productive due to a combination of human activities or natural conditions. The causes for land degradation are numerous and complex. Human activities are often the main cause, such as unsustainable land management practices. Natural hazards are excluded as a cause; however human activities can indirectly affect phenomena such as floods and wildfires a47a85ae93

The Commission was responsible for “forest policy, prevention and suppression of bushfires, issuing leases and licences, planting and thinning of forests, the development of plantations, reforestation, nurseries, forestry education, the development of commercial timber harvesting and marketing of produce, building and maintaining forest roads, provision of recreation facilities, protection of water, soils and wildlife, forest research and making recommendations on the acquisition or alienation of land for forest purposes”. a47a85ae93 By mole fraction (i.e., by quantity of molecules... a47a85ae93

Sea surface microlayer 0 mm), the SML has physicochemical and biological properties that are measurably distinct from underlying waters. With an operationally The sea surface microlayer (SML) is the boundary interface between the atmosphere and ocean, covering about 70% of Earth's surface. Recent studies now indicate that the SML covers the ocean to a significant extent, and evidence shows that it is an aggregate-enriched biofilm environment with distinct microbial communities. Because of its unique position at the air-sea interface, the SML is central to a range of global marine biogeochemical and climate-related processes. The sea surface microlayer (SML) is the boundary interface between the atmosphere and ocean, covering about 70% of Earth's surface. With an operationally defined thickness between 1 and 1,000 μm (1 a47a85ae93

Many mangrove forests can be recognised by their dense tangle of prop roots that make the trees appear to be standing on stilts above the water. This tangle of roots allows the trees to handle the daily rise and fall of tides, as most mangroves get flooded at least twice per day. The roots slow the movement of tidal waters, causing sediments to settle out of the water... a47a85ae93 One of the impacts of land degradation is that it can diminish the natural capacity of the land to store and filter water leading to water scarcity. Human-induced land degradation and water scarcity are increasing the levels of risk for agricultural production and ecosystem services. a47a85ae93 The sea surface microlayer is the boundary layer where all exchange occurs between the

atmosphere and the ocean. The chemical, physical, and biological... a47a85ae93

DART radiative transfer model Developed at CESBIO since 1992, DART model was patented in 2003. DART (Discrete anisotropic radiative transfer) is a 3D radiative transfer model, designed for scientific research, in particular remote sensing. vegetation photosynthesis. It is freeware for scientific activities. Moreover, energy and mass fluxes at the "Earth - Atmosphere" interface affect surface functioning, and consequently climatology a47a85ae93

Atmosphere of Earth The atmosphere redistributes heat and moisture among different regions via air currents, and provides the chemical and climate conditions that allow life to exist and evolve on Earth. The atmosphere serves as a protective buffer between the Earth's surface and outer space. It contains variable quantities of suspended aerosols and particulates that create weather features such as clouds and hazes. It contains variable quantities The atmosphere of Earth consists of a layer of mixed gas that is retained by gravity, surrounding the Earth's surface. The atmosphere of Earth consists of a layer of mixed gas that is retained by gravity, surrounding the Earth's surface. It shields the surface from most meteoroids and ultraviolet solar radiation, reduces diurnal temperature variation - the temperature extremes between day and night, and keeps it warm through heat retention via the greenhouse effect a47a85ae93

Forests Commission Victoria The Forests Commission had a long and proud history of innovation and of managing Victoria's State forests but in September The Forests Commission Victoria (FCV) was the main government authority responsible for management and protection of State forests in Victoria, Australia between 1918 and 1983. alienation of land for forest purposes" a47a85ae93

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Moderate Resolution Imaging Spectroradiometer budget and processes occurring in the oceans, on land, and in the lower atmosphere. The systems often conduct similar operations due to their similar designs and orbits (with VIIRS data systems designed to be compatible with MODIS), though they have subtle differences contributing to similar but not identical uses. There are two MODIS sensors in Earth orbit: one on board the Terra (EOS AM) satellite, launched by NASA in 1999; and one on board the Aqua (EOS PM) satellite, launched in 2002. Since 2011, MODIS operations have been supplemented by VIIRS sensors, such as the one aboard Suomi NPP. Support and calibration is provided by the MODIS characterization support The Moderate Resolution Imaging Spectroradiometer (MODIS) is a satellite-based sensor used for earth and climate measurements a47a85ae93

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