

Remote Sensing Of Mangrove Forest Structure And Dynamics

Mangrove forest 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. Mangrove forests, also called mangrove swamps, mangrove thickets or mangals, are productive wetlands that occur in coastal intertidal zones. Mangrove forests, also called mangrove swamps, mangrove thickets or mangals, are productive wetlands that occur in coastal intertidal zones c6de386a03

For example, estuaries are areas where freshwater rivers meet the saltwater of the ocean, creating an environment that is home to a wide variety of species, including fish, shellfish, and birds. Salt marshes are coastal wetlands which thrive on low-energy shorelines in temperate and high-latitude areas... c6de386a03

Marine coastal ecosystem Coastal habitats extend to the margins of the continental shelves, occupying about 7 percent of the ocean surface area. Worldwide there is about 620,000 kilometres (390,000 mi) of coastline. Marine coastal ecosystems include many very different types of marine habitats, each with their own characteristics and species composition. They are characterized by high levels of biodiversity and productivity. Mangrove forests survive in the intertidal zones of tropical or subtropical coasts, populated A marine coastal ecosystem is a marine ecosystem which occurs where the land meets the ocean. important nursery areas for many species of fish and shellfish c6de386a03

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... c6de386a03

Mangrove deforestation in Myanmar forests were deforested at a rate of 0. There has been recent increased attention to conserve and restore these forests through rehabilitation projects and policies. While large areas of mangrove forests remain,

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the deforestation rates of these forests have been increasing due to anthropogenic influences such as economic pressures to overexploit and expand the aquaculture and agricultural industry. 18% a year, which is about 250,000 acres of land. Remote sensing was used to detect deforestation of mangrove forests. Mangrove deforestation in Myanmar is usually for commercial uses or resources extraction, and is occurring mainly in 3 different regions: Rakhine State, Ayeyarwady Mega Delta, and Tanintharyi Division. There are also natural threats that contribute to mangrove deforestation such as soil erosion.

Mangrove restoration is critical as mangrove habitat. Remote Sensing. Additionally, mangroves play a vital role in climate change mitigation through carbon sequestration and protection from coastal erosion, sea level rise, and storm surges. Mangrove restoration is the regeneration of mangrove forest ecosystems in areas where they have previously existed. Mangrove habitat is declining due to human activities such as clearing land for industry and climate change. Mangroves provide essential ecosystem services such as water filtration, aquatic nurseries, medicinal materials, food, and lumber. Quoc, Tuan Vo; Dech, Stefan (2011-04-27). "Remote Sensing of Mangrove Ecosystems: A Review". Bibcode:2011RemS. Mangroves can be found throughout coastal wetlands of tropical and subtropical environments. Restoration can be defined as "the process of assisting the recovery of an ecosystem that has been degraded, damaged, or destroyed."

It is an ecoregion of West Africa, a band of interlaced forest, savanna, and grassland running east to west and dividing the tropical moist forests near the coast from the West Sudanian savanna of the interior.

Niger Delta mangroves Nigeria has extensive mangrove forests in the coastal region of the Niger Delta. Considered one of the most ecologically sensitive regions in the world, the Niger Delta mangrove forest is situated within a deltaic depositional environment. Anthropogenic development threatens the survival of Niger Delta mangrove populations. These mangrove forests serve a critical role in regional ecological and landscape composition, and support subsistence gathering practices, and market-based income opportunities. Considered one of the most ecologically sensitive regions in the world Nigeria has extensive mangrove forests in the coastal region of the Niger Delta.

Mangrove tree distribution Mangrove loss has important implications for coastal ecological systems and human communities are dependent on healthy mangrove ecosystems. Mangroves provide several important ecological services including coastal stabilization, juvenile fish habitats, and the filtration of sediment and nutrients). The area covered by mangroves is influenced by a complex interaction between land position, rainfall hydrology, sea level, sedimentation, subsidence, storms and pest-predator relationships). This article presents an overview of global mangrove forest biome trends. baseline based on remote

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sensing and global data for 2010 (Giri et al. In the last 50 years, human activities have strongly affected mangrove distributions, resulting in declines or expansions of worldwide mangrove area. , 2011). They estimated the total mangrove forest area of the world as of 2010 at 137 Global mangrove distributions have fluctuated throughout human and geological history c6de386a03

Physically formed by brown macroalgae, kelp forests provide a unique habitat for marine organisms and are a source for understanding many ecological processes. Over the last century, they have been the focus of extensive research, particularly in... c6de386a03

Guinean forest-savanna mosaic The Guinean forest-savanna, also known as the Guinean forest-savanna transition, is a distinctive ecological region located in West Africa. Remote Sensing. Remote Sensing-Based Inventory of West Africa Tropical Forest Patches: A Basis for Enhancing Their Conservation and Sustainable Use". It stretches across several countries including Guinea, Sierra Leone, Liberia, Ivory Coast, Ghana, Togo, Benin, Nigeria, and Cameroon. This region is characterized by a unique blend of forested areas and savannas, creating a diverse and dynamic landscape c6de386a03

These mangrove forests are important to the country's economy, climate and biodiversity. The Burmese people, especially the rural communities... c6de386a03

Kelp forest 1% of Earth's total surface, they account for 0. the Australian continent by tidal marshes, mangrove forests and seagrass beds. 9% of global primary productivity. They are recognized as one of the most productive and dynamic ecosystems on Earth. Smaller areas of anchored kelp are called kelp beds. Although algal kelp forest combined with coral reefs only cover 0. In 2007, kelp forests were also discovered in tropical waters near Ecuador. Kelp forests occur worldwide throughout temperate and polar coastal oceans. Every year 200 million tons of carbon dioxide are being sequestered by macroalgae Kelp forests are underwater areas with a high density of kelp, which covers a large part of the world's coastlines c6de386a03

Mangrove 3 (5): 878-928. Gebhardt, S. Mangroves are taxonomically diverse due to convergent evolution in several plant families. Mangrove plant families first appeared during the Late Cretaceous to Paleocene epochs and became widely distributed in part due to the. The term is also used for tropical coastal vegetation consisting of such species. Bibcode:2011RemS. They have particular adaptations to take in extra oxygen and remove salt, allowing them to tolerate conditions that kill most plants. 878K A mangrove is a shrub or tree that grows mainly in coastal saline or brackish water. Remote Sensing. ; Vo Quoc, T. They occur worldwide in the tropics and subtropics and even some temperate coastal areas,

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mainly between latitudes 30° N and 30° S, with the greatest mangrove area within 5° of the equator. "Remote Sensing of Mangrove Ecosystems: A Review" Dech, S. Mangroves grow in an equatorial climate, typically along coastlines and tidal rivers. (2011). 3

Remote sensing in geology Remote sensing is conducted via detection of electromagnetic radiation by sensors. About one-fourth of the Earth's total surface area is exposed land where information is ready to be extracted from detailed earth observation via remote sensing. The electromagnetic radiation acts as an information carrier for two main variables. The radiation can be naturally sourced (passive remote sensing), or produced by machines (active remote sensing) and reflected off of the Earth surface. Remote sensing is used in the geological sciences as a data acquisition method complementary to field observation, because it allows mapping of geological Remote sensing is used in the geological sciences as a data acquisition method complementary to field observation, because it allows mapping of geological characteristics of regions without physical contact with the areas being explored. First, the intensities of reflectance at different wavelengths are detected, and

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