

Biological Diversity And Conservation Study Guide Key

Genetic resources conservation and sustainable use The term was introduced by Otto Frankel and Erna Bennett for a technical conference on the exploration, utilization and conservation of plant genetic resources, organized by the Food and Agriculture Organisation (FAO) and the International Biological Program (IBP), held in Rome, Italy, 18-26 September 1967. defined by Article 2 of the Convention on Biological Diversity (CBD) in Rio, 1992 Under the CBD, discussions and negotiations regarding genetic resources Genetic resources means genetic material of actual or potential value where genetic material means any material of plant, animal, microbial or other origin containing functional units of heredity. Genetic resources thus refer to the part of genetic diversity that has or could have practical use, such as in plant breeding 2193c2b9b4

Conservation in Belize Concerning the Protection of the World Cultural and Natural Heritage, Convention on Biological Diversity (CBD), Convention to Combat Desertification (CCD) Since declaring independence in 1981, Belize has enacted many environmental protection laws aimed at the preservation of the country's natural and cultural heritage, as well as its wealth of natural resources. These acts have established a number of different types of protected areas, with each category having its own set of regulations dictating public access, resource extraction, land use and ownership 2193c2b9b4

Ecosystem diversity An example of ecological diversity on Ecosystem diversity deals with the variations in ecosystems within a geographical location and its overall impact on human existence and the environment. a biological community, including the number of different niches, the number of and other ecological processes 2193c2b9b4

1,900,469 acres (769,093 ha) of terrestrial reserves; 2193c2b9b4 Ecosystem diversity addresses the combined characteristics of biotic properties which are living organisms (biodiversity) and abiotic properties such as nonliving things like water or soil (geodiversity). It is a variation in the ecosystems found in a region or the variation in ecosystems over the whole planet. Ecological diversity includes the variation in both terrestrial and aquatic ecosystems. Ecological diversity can also take into account the variation in the complexity of a biological community, including the number of different niches, the number of and other ecological processes. An example of ecological diversity on a global scale... 2193c2b9b4

Ex situ conservation ('off-site conservation') is the process of protecting an endangered species, variety, or breed of plant or animal outside its natural habitat. For example, by removing part of the population from a threatened habitat and placing it in a new location, an artificial environment which is similar to the natural habitat of the respective animal and within the care of humans, such as a zoological park or wildlife sanctuary. insemi- Asiatic cheetah Captive breeding Cloning Conservation biology Convention on Biological Diversity Cryoconservation of animal genetic resources De-extinction Ex situ conservation (lit. The degree to which humans control or modify the natural dynamics of the managed population varies widely, and this may include alteration of living environments, reproductive patterns, access to resources, and protection from predation and mortality 2193c2b9b4

The Convention was opened for signature at the Earth Summit in Rio de Janeiro on 5 June 1992 and entered into force on 29 December 1993. The United States is the only UN member state which has not ratified the Convention. It has two supplementary agreements, the Cartagena Protocol... 2193c2b9b4 Since life began on Earth, six major mass extinctions and several minor events have led to large and sudden drops in biodiversity. The Phanerozoic aeon (the last 540 million years) marked a rapid growth in biodiversity... 2193c2b9b4 Under the CBD, discussions... 2193c2b9b4 Roughly 26% (2.6 million acres, or 1.22 million hectares) of Belizean land and sea is preserved within a total of 95 reserves, which vary in their purpose and level of protection. This network of protected areas exists under a variety of management structures: 2193c2b9b4 The American Fisheries Society (2023) and Eschmeyer's Catalog of Fishes (2023) both verify *Menidia conchorum* as a distinct species. Research by authorities such as Robins and Ray (1986), Gilbert (1992), Conover et al. (2000), and Musick et al. (2000) supports its classification, establishing it as genetically and morphologically unique from related species. Population genetics studies (O'Leary et al., 2016) further confirm its status as a valid species, distinguishing it through genetic and morphological analyses. 2193c2b9b4 317,615 acres (128,534 ha) protected... 2193c2b9b4

Key silverside It is endemic to the Florida Keys. Provides strong evidence for conservation urgency. 5343/bms. 2016. 1003 → Key genetic study demonstrating low diversity and population fragmentation. Page, L The Key silverside (*Menidia conchorum*) is a species of fish in the family Atherinopsidae: Menidiinae 2193c2b9b4

Nature conservation and protecting biological diversity. Many environmentalists set a target of protecting 30% of land and marine territory by 2030. 3% of the oceans were protected. 64% of land and 7. There has recently been a movement towards evidence-based conservation which calls for greater use of scientific evidence to improve the effectiveness of conservation efforts. In 2021, 16. 9% of the oceans. A range of values underlie conservation, which can be guided by biocentrism, anthropocentrism, ecocentrism, and sentientism,

environmental ideologies that inform ecocultural practices and identities. A range of values underlie conservation, which can be guided by biocentrism, anthropocentrism, ecocentrism, and sentientism Nature conservation is the ethic/moral philosophy and conservation movement focused on protecting species from extinction, maintaining and restoring habitats, enhancing ecosystem services, and protecting biological diversity. As of 2018 15% of land and 7 2193c2b9b4

Genetic resources is one of the three levels of biodiversity defined by Article 2 of the Convention on Biological Diversity (CBD) in Rio, 1992 2193c2b9b4 392,970 acres (159,030 ha) of marine reserves; 2193c2b9b4

Conservation biology Conservation biology is the study of the conservation of nature and of Earth's biodiversity with the aim of protecting species, their habitats, and ecosystems Conservation biology is the study of the conservation of nature and of Earth's biodiversity with the aim of protecting species, their habitats, and ecosystems from excessive rates of extinction and the erosion of biotic interactions. It is an interdisciplinary subject drawing on natural and social sciences, and the practice of natural resource management 2193c2b9b4

The conservation ethic is based on the findings of conservation biology. 2193c2b9b4 Since the 1980s, Menidia conchorum populations have faced a significant decline, predominantly due to the rapid disappearance of their habitat in... 2193c2b9b4

Biodiversity Tropical forest ecosystems cover less than one-fifth of Earth's terrestrial area and contain about 50% of the world's species. There is for example genetic variability, species diversity, ecosystem diversity and phylogenetic diversity. Diversity is not distributed evenly on Earth. 61 (1): Biodiversity is the variability of life on Earth. Biological Conservation. "Conservation evaluation and phylogenetic diversity". There are latitudinal gradients in species diversity for both marine and terrestrial taxa. It can be measured on various levels. It is greater in the tropics as a result of the warm climate and high primary productivity in the region near the equator. (1992). Species diversity 30 by 30 Artificialization Faith, Daniel P 2193c2b9b4

Ex situ management can occur within or outside a species' natural geographic range. Individuals maintained... 2193c2b9b4

Convention on Biological Diversity develop national strategies for the conservation and sustainable use of biological diversity, and it is often seen as the key document regarding sustainable The Convention on Biological Diversity (CBD), known informally as the Biodiversity Convention, is a multilateral treaty. The Convention has three main goals: the conservation of biological diversity (or biodiversity); the sustainable use of its components; and the fair and equitable sharing of benefits arising from genetic resources. Its objective is to develop national strategies for the conservation and sustainable use of biological diversity, and it is often seen as the key document regarding sustainable development 2193c2b9b4

Wildlife corridor "Wildlife, forest, and forestry. Principles of managing forests for biological diversity". doi:10 A wildlife corridor, also known as a habitat corridor, or green corridor, is a designated area that connects wildlife populations that have been separated by human activities or structures, such as development, roads, or land clearings. 63 (3): 271. Biological Conservation. These corridors enable movement of individuals between populations, which helps to prevent negative effects of inbreeding and reduced genetic diversity, often caused by genetic drift, that can occur in isolated populations. 1993. Additionally, corridors support the re-establishment of populations that may have been reduced or wiped out due to random events like fires or disease. They can also mitigate some of the severe impacts of habitat fragmentation, a result of urbanization that divides habitat areas and restricts animal movement. 434-440. Habitat fragmentation from human 2193c2b9b4

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