

# In Situ Conservation Examples

Contaminants located in sediments still pose a risk to the environment and human health. Some of the direct effects on aquatic life that can be associated with contaminated sediment include “the development of cancerous tumors in fish exposed to polycyclic... 6b50c934c9

Conservation biology ex-situ conservation, which occurs outside the natural habitat. It is an interdisciplinary subject drawing on natural and social sciences, and the practice of natural resource management. In-situ conservation involves protecting or restoring the habitat. Ex-situ conservation, on 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 6b50c934c9

Ex situ management can occur within or outside a species' natural geographic range. Individuals maintained ex situ exist outside an ecological niche. This means that they are not under the same selection pressures as wild populations, and they may undergo artificial selection if maintained ex situ for multiple generations. 6b50c934c9 The natural sciences typically use in situ methods to study phenomena in their original context. In geology, field studies of soil composition and rock formations may provide direct insights into Earth's processes. Biologists observe organisms in their natural habitats to understand behaviors and ecological interactions that cannot be... 6b50c934c9

Ex situ conservation (‘off-site conservation’) is the process of protecting an endangered species, variety, or breed of plant or animal outside its 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. ‘off-site conservation’) is the process of protecting an endangered species, variety, or breed of plant or animal outside its natural habitat. Ex situ conservation (lit. 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 6b50c934c9

Conservation behavior is aimed at applying an understanding of animal behavior to solve problems in the field of conservation biology. These are problems that may arise during conservation efforts such as captive breeding, species reintroduction, reserve connectivity, and wildlife management. By using patterns in animal behavior, biologists can be successful in these conservation efforts. This is done by understanding the proximate and ultimate causes of problems that arise. For example, understanding how proximate processes affect survival can help biologist train captive-reared animals to recognize predators post-release. Ultimate causes also have

a clear benefit to conservation. For example, understanding social relationships that lead to fitness (biology) can help biologists manage wildlife that exhibit infanticide. Conservation projects may have a better chance of being successful if... 6b50c934c9 The conservation ethic is based on the findings of conservation biology. 6b50c934c9

Conservation issues of Pompeii and Herculaneum Many agents of deterioration play a role in these conservation issues. have played their part in the slow disintegration of the sites. Paintings being 6b50c934c9

In situ Its use in scientific literature expanded from the late 19th century onward, beginning in medicine and engineering, and later spreading to a wide range of disciplines. The earliest recorded use of in situ in English dates back to the mid-17th century. This approach preserves environmental factors and relationships that might be lost when materials or specimens are relocated to controlled settings.

'in the place' or 'on site', derived from in ('in') and situ (ablative of situs, lit. In situ is a Latin phrase meaning 'in the place' or 'on site', derived from in ('in') and situ (ablative of situs, lit. In comparison, ex situ ('out of the place') methods involve removing materials or specimens for study, preservation, or modification under controlled conditions, often at the expense of their original context. The term refers to studying or working with something in its natural or original location rather than moving it elsewhere. 'place') 6b50c934c9

Agricultural biodiversity is also conserved in ex situ collections. This is primarily in the form of gene banks where samples are stored in order to conserve the genetic resources... 6b50c934c9

EAZA Ex-situ Programme The EAZA Ex-situ Programme (EEP) is a population management and conservation programme by European Association of Zoos and Aquaria (EAZA) for wild animals The EAZA Ex-situ Programme (EEP) is a population management and conservation programme by European Association of Zoos and Aquaria (EAZA) for wild animals living in captivity in European zoos and aquaria. The programme was formerly known as the European Endangered Species Programme 6b50c934c9

Yajnavalkya Smriti, a historic Indian text on statecraft and jurisprudence, suggested to have been written before the 5th century AD, prohibited the cutting of trees and prescribed punishment for such acts. During Chandragupta's reign, there was a regular forest department led by a Kupyadhyaksha (superintendent) and Vanpalas (forest guards). Kautilya's Arthashastra says that they had a role of classifying the trees, plants and herbs and fixing their price; they imposed fines on those who fell trees without permission. It further mentions how forests were classified... 6b50c934c9 == History == 6b50c934c9

In situ capping of subaqueous waste In-situ capping uses techniques developed in chemistry, biology, geotechnical engineering, environmental engineering, and environmental geotechnical engineering. In-situ capping provides a viable way to remediate an area that is contaminated. The design of the cap and the

characterization of the surrounding areas are of equal importance and drive the feasibility of the entire project. Numerous successful cases exist and more will exist in the future as the technology expands and grows more popular. It is an option when pump and treat becomes too expensive and the area surrounding the site is a low energy system. In-Situ Capping (ISC) of Subaqueous Waste is a non-removal remediation technique for contaminated sediment that involves leaving the waste in place and In-Situ Capping (ISC) of Subaqueous Waste is a non-removal remediation technique for contaminated sediment that involves leaving the waste in place and isolating it from the environment by placing a layer of soil and/or material over the contaminated waste as to prevent further spread of the contaminant 6b50c934c9

== Introduction == 6b50c934c9

Conservation and restoration of cultural property of conservation of cultural heritage in Europe to have begun in 1565 with the restoration of the Sistine Chapel frescoes, but more ancient examples include 6b50c934c9

Even though EEP participation is mainly reserved for EAZA zoos, it is possible for non-EAZA collections to be included in these programmes. There are generally however more restrictions on such zoos (which may go as far as only holding non-breeding animals for educational purposes), and on the number of... 6b50c934c9 == Origins == 6b50c934c9 Each EEP has a coordinator who is assisted by a species committee. The coordinator collects information on the status of all the animals kept in EAZA zoos and aquariums of the species for which he or she is responsible, produces a studbook, carries out demographic and genetic analyses, produces a plan for the future management of the species and provides recommendations to participating institutions. Together with the EAZA Species Committee, recommendations are made each year about relocating and breeding animals, and the conditions of such a move (breeding loan, exchange, term free disposition, etc.). 6b50c934c9

Conservation behavior protection Ethology Ex-situ conservation Extinction Gene pool Genetic erosion Genetic pollution Habitat fragmentation In-situ conservation IUCN Red List List Conservation behavior is the interdisciplinary field about how animal behavior can assist in the conservation of biodiversity. It encompasses proximate and ultimate causes of behavior and incorporates disciplines including genetics, physiology, behavioral ecology, and evolution 6b50c934c9

Conservation in India Conservation generally refers to the act of carefully and efficiently using natural resources. From the most dry regions to the wettest zones in the world Conservation in India can be traced to the time of Ashoka, tracing to the Ashoka Pillar Edicts as one of the earliest conservation efforts in the world. used for in situ conservation, which involves conservation of species in their natural habitat. The Ministry of Environment, Forest and Climate Change is the ministry responsible for implementation of environmental and forestry program in India, which include the management of national parks, conservation of flora and fauna of India, and pollution controls. Conservation efforts begun in India before 5 AD, as efforts are made to have a forest administration 6b50c934c9

Conservation-dependent species As of December 2015, there remains 209 conservation-dependent. Examples of conservation-dependent species include the California ground cricket. catches 6b50c934c9

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