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50 years of Earth observation: The contribution to sustainable development goals and plans for the future
(6)

Author: Dr. Sevda R. Ibrahimova

Azerbaijan National Aerospace Agency, Azerbaijan, s_ibrahimova@yahoo.com

SPACE TECHNOLOGY AND INTELLIGENT MODELS FOR BIODIVERSITY MONITORING IN
AZERBAIJAN

Abstract

Biodiversity is very important for humans and all other species on the Earth. Without the diversity of species, ecosystems are more fragile to natural disasters and climatic change. With an increase in the rate of species extinction, we must conserve ecosystems and rare species by choosing right methods that are sustainable on the basis of appropriate science and human needs. Forest resources in Azerbaijan are very abundant, but environmental carrying capacity of the region is vulnerable, thus when using them we must think of conservation at the same time. They provide a wide range of products and services to people throughout the world. Forest trees and other plants help support many other organisms, and have developed complex mechanisms to maintain high levels of genetic diversity. This diversity is the fundamental basis for the evolution of forest tree species and for their adaptation to environmental changes. Conserving forest genetic. All forests are State-owned and act to provide water protection, soil protection and climate regulatory functions. Forests are managed by the Department of Forest Development, part of the Ministry of Ecology and Natural Resources. The variety of soil and climatic conditions of the country led to the spread of forests with a very rich natural composition. There are over 450 species of trees and bushes, but the vast majority (covering 88 To use high resolution space images and GIS technology have become increasingly useful in monitoring of biodiversity. On the base of intelligent mathematical methods were developed software modules for the study of dynamic changes.