1. Record Nr. UNINA9910557691903321

Autore	Matyas Csaba
Titolo	Genetic Resources and Adaptive Management of Conifers in a Changing World
Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2021
Descrizione fisica	1 online resource (206 p.)
Soggetti	Research & information: general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Climatic change causes a mismatch between tree populations on sites they currently occupy and the climate to which they have adapted in the past. The maintenance of productivity and of ecological and societal services requires resilient populations and ecosystems, particularly close to the vulnerable trailing (xeric) range limits. The studies confirm the selective effect of diverse habitat/climate conditions across the species ranges. Soil conditions may mask climate effects and should be considered separately. The unique potential of provenance tests is illustrated by growth response projections that may be less dramatic than provided by usual inventory data analyses. Assisted migration appears to be a feasible management action to compensate for climatic warming. However, the choice of populations needs special care under extreme conditions and outside the limits of current natural distribution ranges. The proper differentiation of measures according to the present and future adaptive challenges require the continuation of long-term analyses and the establishment of better focused field trials in disparate climates that contain populations from a representative range of habitats. The studies present results obtained from diverse regions of the temperate forest zone, from Central and Northwestern Europe, the Mediterranean, Russia, China, North and Central America.

2. Record Nr. UNINA9910557546503321

Autore	Dominici Donatella
Titolo	Remote Sensing in Coastline Detection
Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2020
Descrizione fisica	1 online resource (138 p.)
Soggetti	History of engineering and technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Coastal environments are dynamic ecosystems, where erosion is influenced by meteorological/climatic, geological, biological, and anthropic factors. Erosion has worrying effects on the environment, infrastructure, lifelines, and buildings. Furthermore, climate change is exacerbating an already fragile situation. We are witnessing a high-risk situation and are convinced that this is the most appropriate time to focus on state-of-the-art remote sensing techniques for shoreline monitoring. The improvements in the spatial and spectral resolution of current and next generation satellite-based sensors and the significant progress in the spatial data processing identify remote sensing techniques that increase our knowledge of territory and coastline. This Special Issue aims to highlight an overview of all multiscale remote sensing techniques (e.g., high resolution images, photogrammetry, SAR, etc.) and a whole array of methods and techniques that process, analyse, and discuss multitemporal remotely sensed data. Thank you to all of our contributors and authors for their interesting and illuminating studies. Since this topic is complex and dynamic, we hope to develop this research with future works to form more cutting-edge studies.