

Abstract

This thesis summarizes the basic knowledge about the dynamics of spruce forests in Europe on Holocene scale. It presents an overview of glacial refugia during the last glacial maximum and migration routes of spruce expansion to Europe. It also presents the basic facts about disturbance dynamics and differences in disturbance dynamics of northern and central Europe.

In the last part, I have listed the basic palaeoecological methods that help in the study of spruce disturbances.

Keywords: Norway spruce, Holocene, disturbance, dynamics, paleoecological methods