

## **Summary**

The utilization of remote sensing in the field of nature conservation and landscape management has recently increased tremendously. Possibility of implementing data obtained by remote sensing in GIS has created an increasingly powerful tool also for appropriate management of protected areas. This bachelor thesis delivers a brief overview of remote sensing methods, projects that use these applications and the possibility of their application in practice. Also examples of research activities in the field of remote sensing aimed primarily at protecting and monitoring the state of forests are presented. Finally, a draft methodology for the analysis of changes in habitat qualities in the area of interest, the Šumava National Park, is proposed.

**Keywords:** Habitats, Management of protected areas, Habitats for Natura 2000, GIS, Aerial photographs, Remote sensing