

Michal Dobíhal

Studijní program: Geografie

Studijní obor: Fyzická geografie a geoinformatika

Bakalářská práce

Vedoucí práce, školitel: Doc. RNDr. Vít Vilímek, CSc.

The glacial retreat in the Cordillera Blanca since the Little Ice Age

ABSTRACT:

The term Little Ice Age refers to a cooling period of time, as a result of this cooling mountain glaciers experienced significant advance in many parts of the world. Conventionally, the period between the 16th century and the middle of the 19th century is stated for the Little Ice Age, but its course and time placement differs in individual world regions. Based on research of scientific literature, this thesis aims at describing correct time placement of the Little Ice Age in the southamerican mountain range Cordillera Blanca and the expanse of the glacier retreat since its maximum till the present. Methods of lichenometry used for dating „Little Ice Age“ moraines are mentioned as well. In the analytical part, the area of the glaciation of selected glaciers from the Little Ice Age maximum and from the present is compared using polygon measurement and satellite images. The extrapolation of this method is subsequently made on other selected glaciers, whose moraines have not been dated yet.

Keywords: Cordillera Blanca, Little Ice Age, glacial retreat, moraine, lichenometry