Abstract:
The aim of this thesis is to point out the frequency of hailstorm in the world per year. In the first part we describe the genesis of hailstorm and most used methods for hailstorm detection. In the last part we describe summary of areas in selected countries with the biggest frequency of hailstorm and its annual variation. Here we try to point out the spatial scatter of affected areas. Also we try to describe the most basic hailstorm - affecting factors with the analysis of frequency of distribution in individual countries. By these factors (geographical latitude, height above sea level, influence of topography and atmospheric circulation) we try to clarify the affecting reason of genesis and power of hailstorm.

Key words: hailstorm, hailstone, detection of hailstorm, climatology, factors