

Abstract

Polarized light is a physical phenomenon that is quite common in the nature. It has been known for a long time that some animals use such kind of light for various purposes in their lives. This group also includes dragonflies, which use horizontally polarized light to detect areas of water where mating and egg-laying takes place. The aim of this bachelor's thesis is to summarize the current knowledge of the visual orientation of dragonflies in space using polarized light. In my thesis, I focus on habitat selection and in which spectrum range dragonflies can perceive polarized light. Furthermore, I focus on the area of perception of polarized light by dragonfly larvae in the aquatic environment, which has not been properly researched yet as there are very few studies.

Key words: orientation, insects, dragonflies, visual, polarized light, habitat selection