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D2.5 Tutorial for environmental awareness training in the use of outdoor lighting

**Coordinator: FVB-IGB
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Authors

Author name	Organization	E-Mail
Sibylle Schroer	FVB-IGB	Schroer@igb-berlin.de
Kat Austen	FVB-IGB	austen@igb-berlin.de

Abstract	This report provides explanation to the tutorial video presenting environmental awareness training.
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Executive Summary

This report provides explanation to the tutorial video presenting environmental awareness training.

1 Introduction

The project Tatort Streetlight (www.tatort-strassenbeleuchtung.de/en) invites citizen scientists to contribute to research about the effects of roadway lighting on the insect fauna. The project aims are (a) to offer environmental education in order to increase the public awareness about the adverse effects of artificial light at night on the environment, (b) at the training of students in taxonomic insect skills (c) to find environmental friendly solutions for roadway lighting and (d) to measure the impact of different lighting solutions on the environment both on the night sky brightening and on the behavior of flying insects. The awareness increasing approach is timely as illumination of the night sky continues to increase annually, leading to a habituation effect. Especially young students need to learn about the value of a natural night sky. The awareness of the adverse effects of outdoor lighting is important in order to encourage the sustainable use of outdoor lighting with the least effects on the environment, both for ecology and human well-being and for saving energy. Here we present a tutorial workshop for students age 15-18. The workshop was held at the 08.08.2020 at Fürstenberg, Brandenburg in Germany. The students were offered a presentation, had the opportunity to discuss the matter and ask questions: They were further asked to create solutions for future public lighting and got to know the insight of a TESS-photometer (<https://tess.stars4all.eu/>). The TESS-photometer is a device used to measure the differences in night sky brightness.

2 Tutorial Material

The tutorial material includes a video about the workshop and the slides for education about the effects of artificial light at night on the environment. The video presents (a) an introduction of the work conducted in the project “Tatort Streetlight” and (b) the location the “Verstehbahnhof” in Fürstenberg (<https://www.verstehbahnhof.de/>), which offers workshops to students about measurements of environmental pollutions and to create digital networks in cooperation with “Jugend hackt” (<https://jugendhackt.org/>). “Jugend hackt” labs offer students to networking with the hacking community and workshops on specific topics at various locations. The tutorial materials presented here are the presentation of the workshop about light pollution, the discussion with the students and the practical part in which the students created ideas for future public lighting. It is a tutorial on awareness increasing and stimulation for finding technological solutions for the protection of insects and environmental friendly roadway lighting. The workshop was held in English, using German slides.