

Assessing Damage and Recovery from the July 2021 European Floods

Study Project or Thesis (B.Sc. or M.Sc.)



Figure 1: Flooding of Altenburg in July 2021. [Credit: alliance/dpa/Polizei]

Description

In July 2021, catastrophic flooding devastated large areas of Central Europe. There were at least 243 deaths as a result, with 135 deaths in the Ahrweiler region alone. Infrastructure in the region, including houses, businesses, roads, railways, and electrical distributions systems, was also very heavily damaged. Since that time, a long recovery process has been underway. It is the aim of this project to collect as much information as possible about the infrastructural damages which occurred and the progress towards recovering each of the components. Data collection may consist of processing remote sensing products and/or conducting field surveys. The scope of this project can be adjusted to fit either a study project or a thesis.

Tasks

During the course of this project, the following work should be carried out:

- Literature review of existing damage/recovery assessments for the target area.
- Collection and processing of remote sensing products.
- Conducting field surveys, including in-person interviews.
- Analysis and summary of the collected data in a final written report.

Prerequisites

The following skills are required for this project:

- General research skills (retrieving literature from databases, reading and analysis of scientific articles, proper citation of all work, etc.).
- Ability to write in a clear and concise manner.

The following skills are not required, but are highly recommended:

- Prior use of QGIS or ArcMap.

Target Start

Immediately

Contact

For more information about this project and related projects, please contact:

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