Project Background

Reference data for the training and validation of forestry related remote sensing applications is highly demanded, yet, surprisingly, no publicly available reference data bases exist that would facilitate methodological development and the availability of high quality forest attributes maps. To provide such a database as open data is one of the core goals of the KlimBa project.

Thus, mid-way through the project we want to bring together researchers and potential users of the database to give insights into our approach and present first results. The workshop aims at providing a platform for an open-minded discussion with focus on reference data bases for tree species classification, their technical implementation, user requirements, and long-term availability.

Expected Project Results

- A tree species composition map for entire Germany, covering the most dominant species
- Open training database
- Pre-trained deep learning models
- Application to Copernicus data
- Resilience indicator map
- Map showing tree species distribution adapted to site conditions and future climate
- A set of forest management options that lead to the establishment of stable forest ecosystems

Workshop

Objectives of the Workshop
- We want to present the KlimBa project and its current status, as well as explore the demand for tree species maps, training data and management recommendations.
- We want to provide an informal opportunity for information exchange about remote sensing in combination with deep learning.

Location: Historical Observatory, Geismar Landstraße 11, 37083 Göttingen

Contact and Registration

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Project Partners

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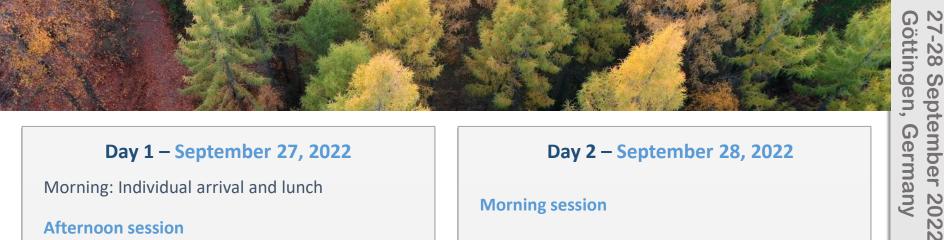Alfred-Möller-Straße 1, Haus 41/42
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Day 1 – September 27, 2022

Morning: Individual arrival and lunch

Afternoon session

14:00 Start of the Workshop. Short Introduction round

14:30 Presentation of the KlimBa Project by Paul Magdon (HAWK) and Sebastian Schnell (Thünen Institute).

15:15 Coffee break

15:45 David Frantz (Trier University) - Processing of satellite data - Standardization

16:45 Jonathan Költzow (Future Forest Projekt) - Requirements of training data

17:45 End of first day

19:00 Dinner get-together (**Localneun**, Göttingen Old Town).

Day 2 – September 28, 2022

Morning session

08:30 Maciej Lisiewicz (Forest Research Institute, Poland) - Individual tree detection and species classification in structural diverse forests

09:30 Coffee break

10:00 Hanna Meyer (WWU Münster)- Validation of remote sensing products

11:00 Departure for Walk & Talk in direction to Bismarck Tower and surroundings

13:00 Lunch at **Delhi Palace** and walk back to the Historical Observatory

Afternoon session

14:15 Wrap-up in the conference room

15:00 End of the Workshop

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