



# Open Land Use Map

## Expanding Open Land Use Map by Terrain Characteristics

Karel Jedlička, Marcela Doubková, Dmitrij Kožuch

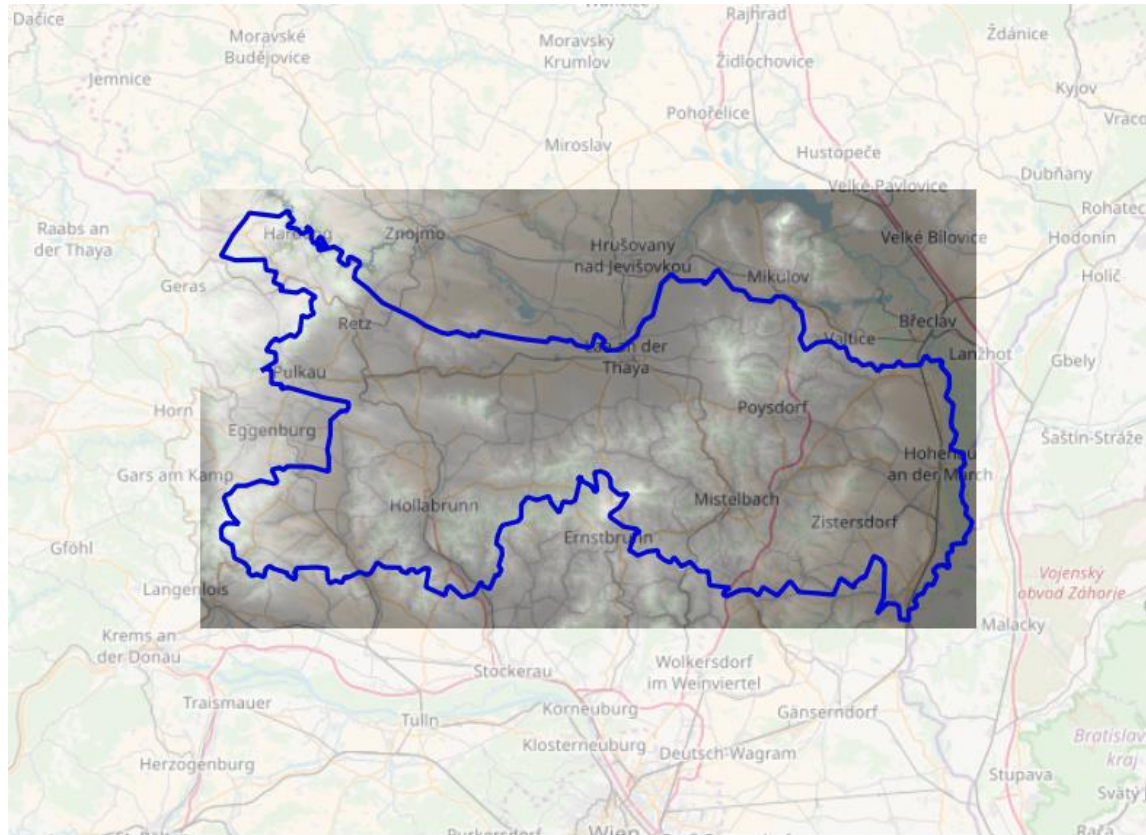


# Aim

The idea is to expand Open Land Use map by computing main terrain characteristics of agricultural fields (LPIS blocks). So far for computation two datasets will be used 1'arcsecond DEM dataset by USGS and Open Land Use map (for masking fields). The experimental area will be Weinviertel (province located in the norteast of Lower Austra).

# Pilot area

## Weinviertel



# Zonal geomorphological statistics

Zonal characteristics for the field with id 10145238 :

```
{'min_elevation': 186.64203, 'max_elevation':  
196.92177, 'mean_elevation': 190.70232,  
'median_elevation': 190.44339, 'min_slope':  
0.7573741, 'max_slope': 1.5695069,  
'mean_slope': 1.2346609, 'median_slope':  
1.2555954, 'min_azimuth': -179.98296,  
'max_azimuth': 179.62314, 'mean_azimuth': -  
13.073845, 'median_azimuth': -30.859669}
```

# Image maps

Identify Results

Feature	Value
Open Land Use map	
id	10,145,238
> (Derived)	
> (Actions)	
id	10,145,238
hilucs_value	110
original_value	Brotgetreide
country_code	AT
municipal_code	AT31042

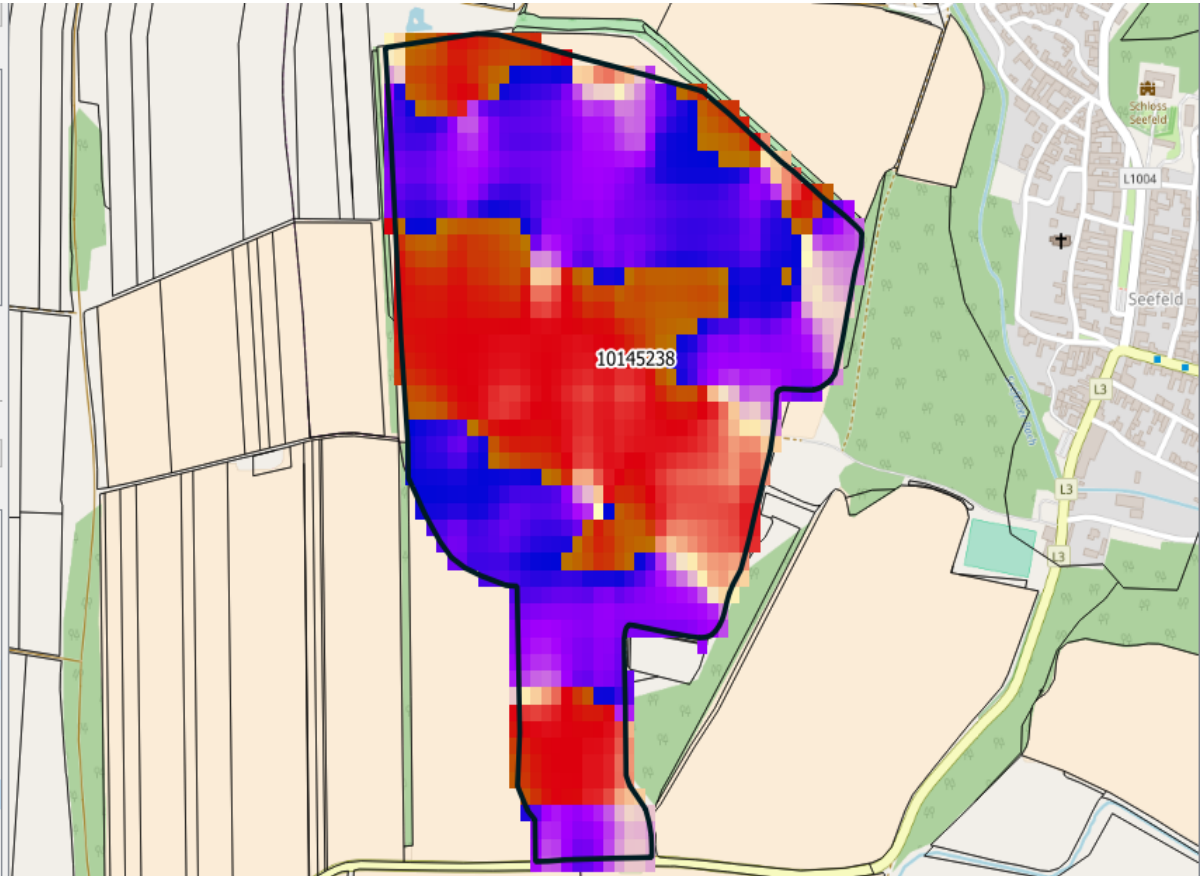
Mode: Current layer  Auto open form

View: Tree [Help](#)

Identify Results [Browser](#)

Layers

- Field
- 10145238\_dem\_azimuth
  - 180
  - 90
  - 0
  - 90
  - 180
- 10145238\_dem\_slope
- 10145238\_dem
- Open Land Use map
- DEM
- OSM Standard



# Image maps

Identify Results

Feature	Value
Open Land Use map	
id	10,145,238
> (Derived)	
> (Actions)	
id	10,145,238
hilucs_value	110
original_value	Brotgetreide
country_code	AT
municipal_code	AT31042

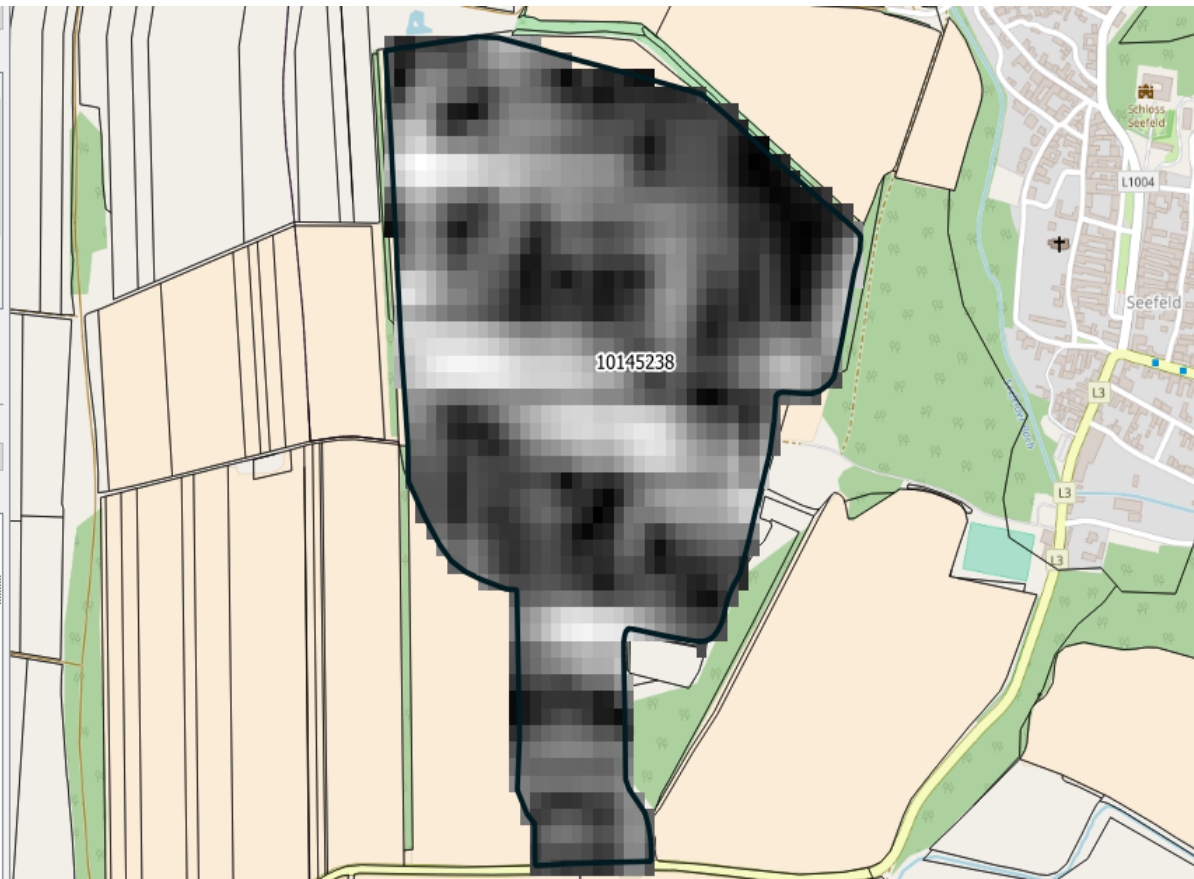
Mode: Current layer  Auto open form

View: Tree [Help](#)

Identify Results [Browser](#)

Layers

- Field
- 10145238\_dem\_azimuth
- 10145238\_dem\_slope**
  - 0.757374
  - 1.56951
- 10145238\_dem
- Open Land Use map
- DEM
- OSM Standard



# Image maps

Identify Results

Feature	Value
Open Land Use map	
id	10,145,238
(Derived)	
(Actions)	
id	10,145,238
hilucs_value	110
original_value	Brotgetreide
country_code	AT
municipal_code	AT31042

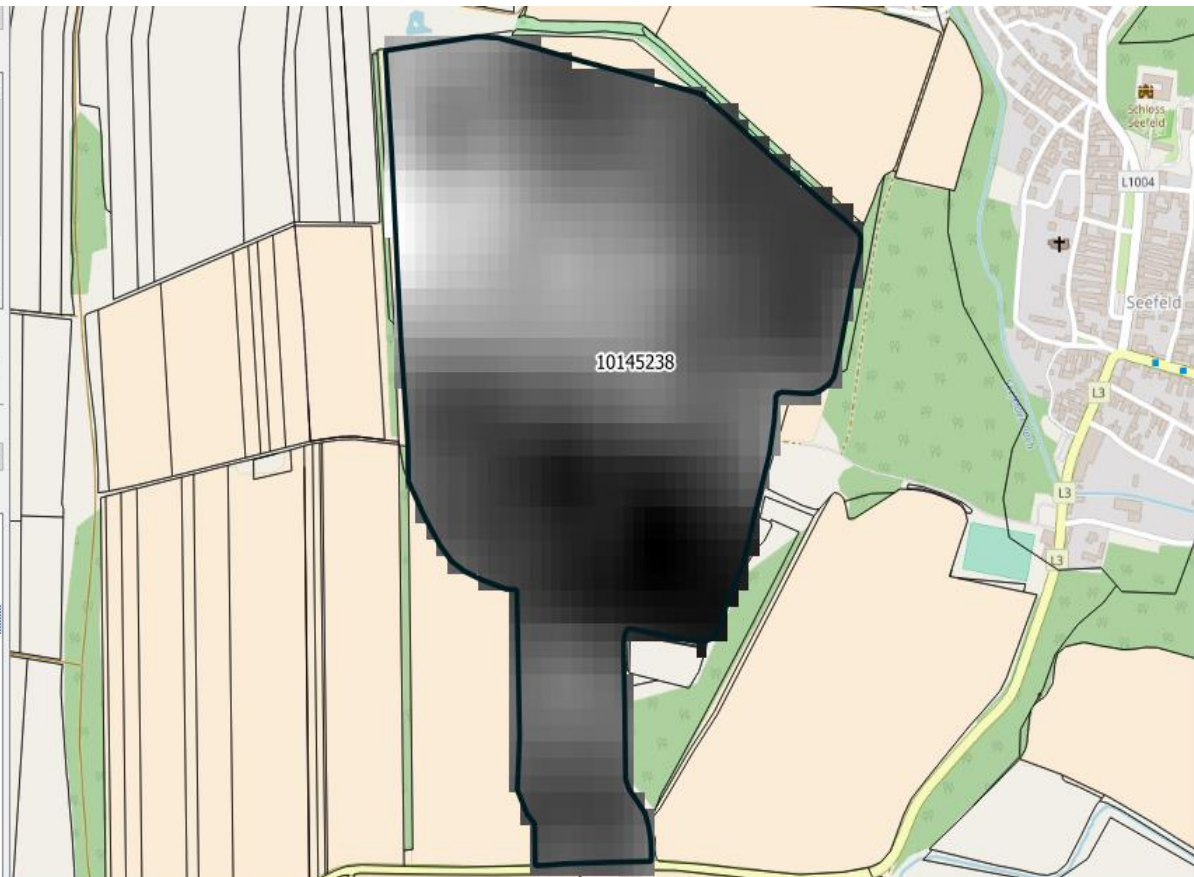
Mode: Current layer  Auto open form

View: Tree [Help](#)

Identify Results [Browser](#)

Layers

- Field
- 10145238\_dem\_azimuth
- 10145238\_dem\_slope
- 10145238\_dem**
  - 186.642
  - 196.922
- Open Land Use map
- DEM
- OSM Standard





**Thanks for your attention!**