

Wet area maps completed and available, way forward

03/02/2022

MS Teams meeting

LIFE OrgBalt, LIFE18 CCM/LV/001158

EU LIFE Programme project

“Demonstration of climate change mitigation potential
of nutrients rich organic soils in Baltic States and Finland”

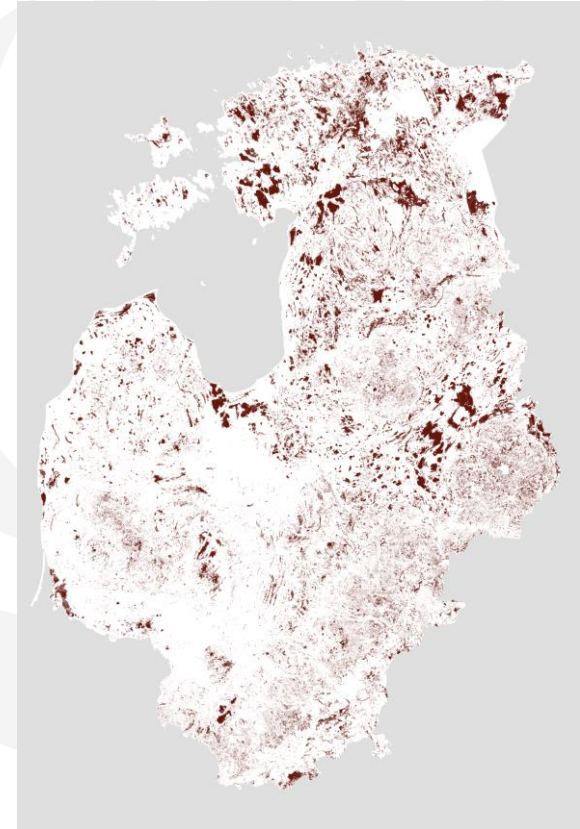
Introduction

- The topography of the earth's surface, geological sediments and the force of gravity are the determining factors that determine the spread of moisture in the soil;
- Wet soils are important for a variety of biological, chemical, etc. processes, however, can be a burden in forestry and agriculture.

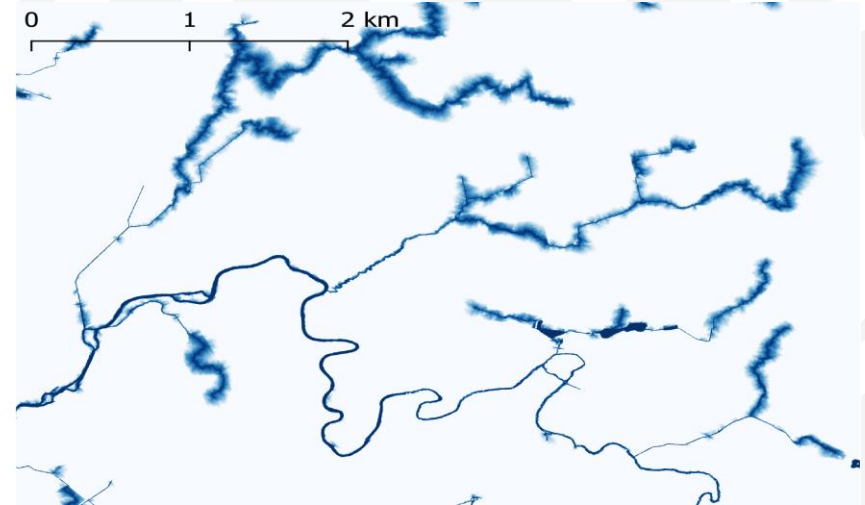


Historical organic soil data

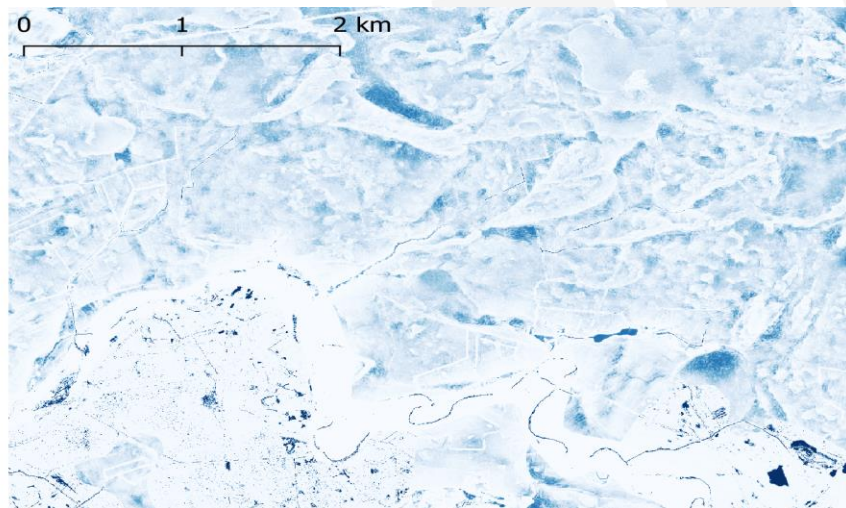
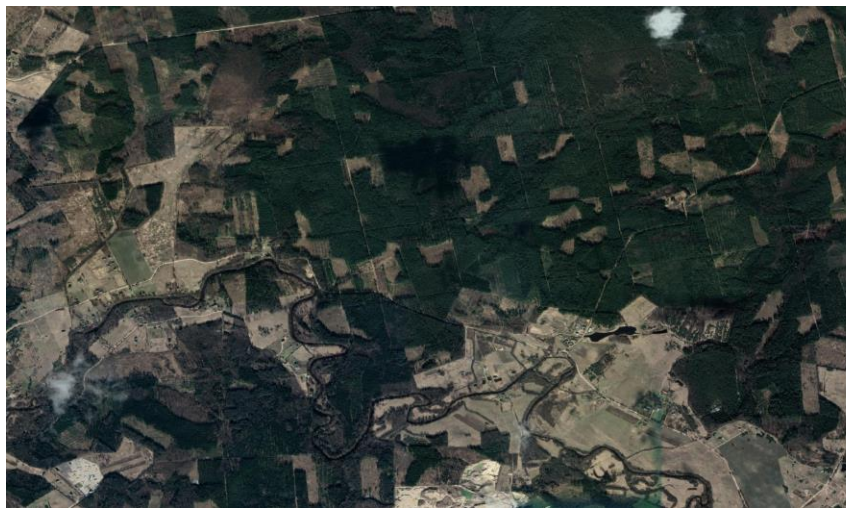
- Historical data about organic soil coverage in the Baltic states combined from various sources (historical soil data, bog/fen maps, forest types etc.);
- In total 2,36 million ha;
- Some of those soils nowadays are non existent.



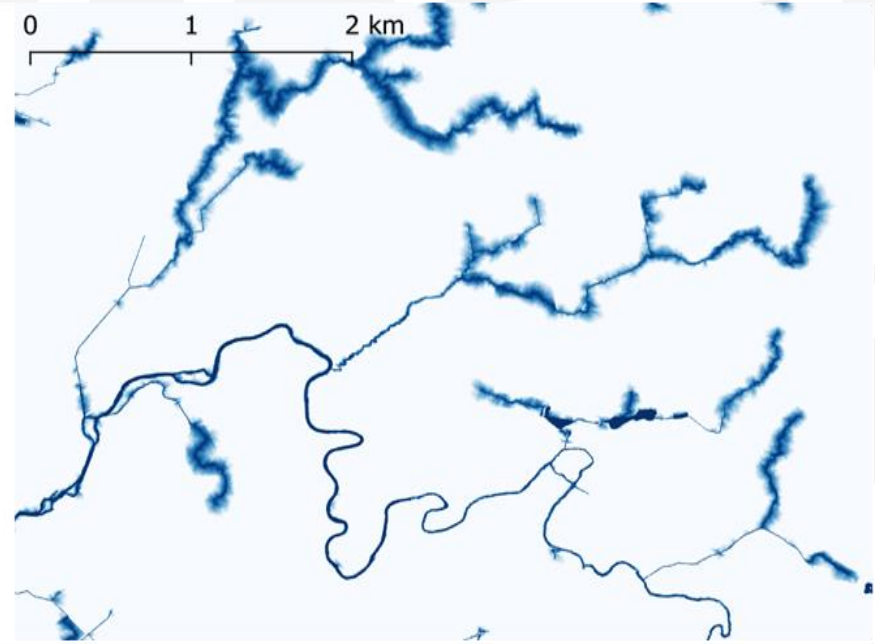
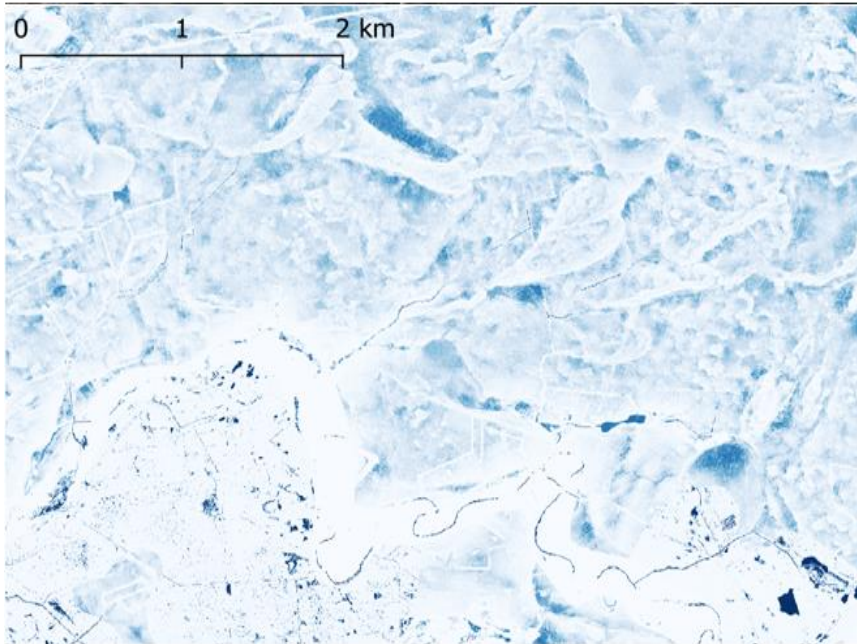
Depth to water maps



Wet area maps

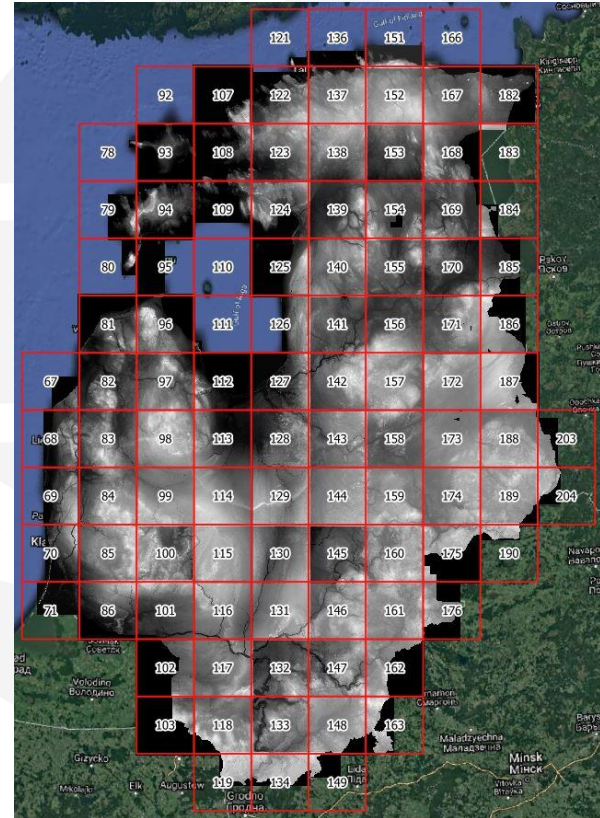


WAM and DTW comparison



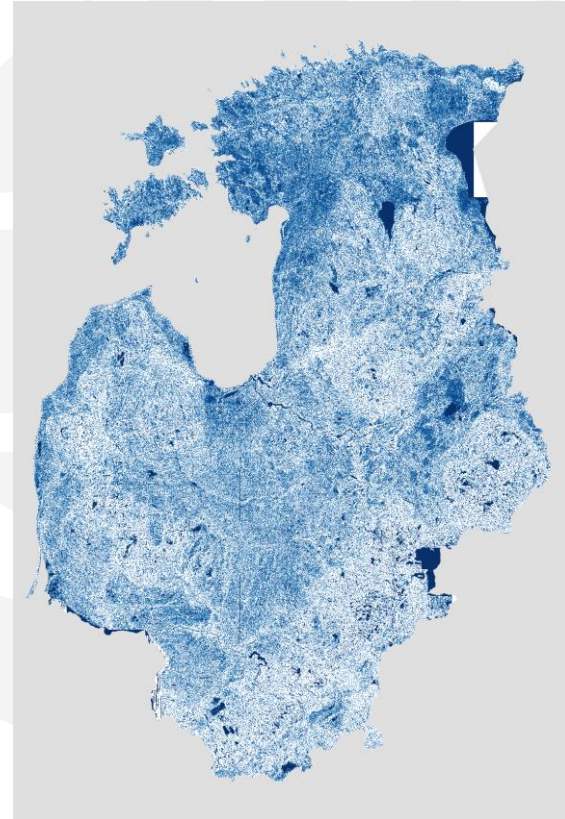
Elevation data processing

- 102 tiles with elevation data in 5m horizontal resolution from ALS missions in Baltic states



Depth to water maps

- Depth to water maps generated for whole area with catchment area thresholds 10 ha and 30 ha;
- Data published as WMS service and also downloadable from LSFRI Silava website.
- <http://www.silava.lv/172/view.aspx>

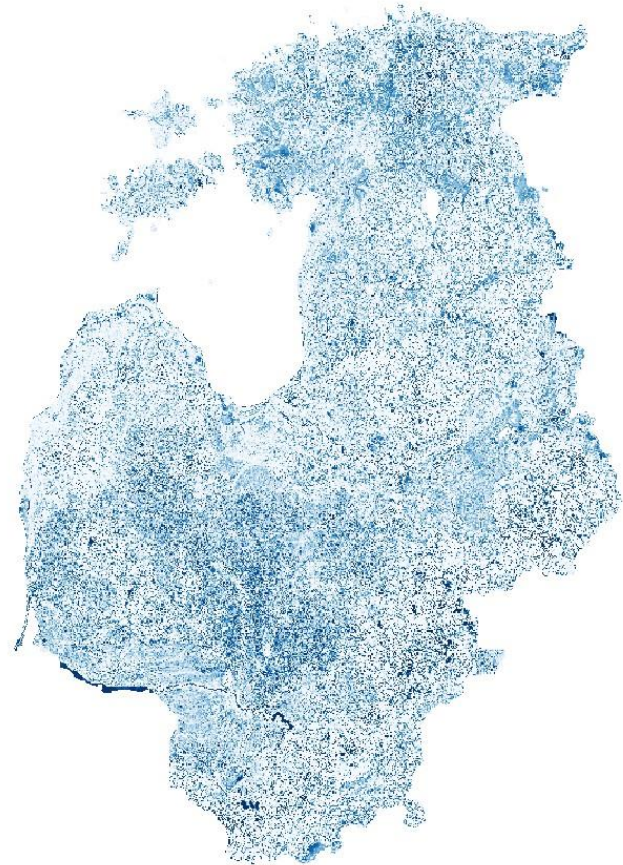


Depth to water maps

- Wet area maps generated for whole area in 5 m horizontal resolution;
- Data published as WMS service:

<https://silava.forestradar.com/geoserver/silava/wms>

- Soon available for individual tile downloading.



Way forward

- Compare historical organic soil data to Wet area map and Depth-to-water maps;
- Find patterns and build model for organic soil area/boundary corrections;
- Apply model for data in the whole study area and validate results;
- Scientific paper.

Thank you!

Questions?



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