

HarvesterSeasons service; trafficability maps

06.02.2024

Trafficability



Metsä Fibre's curse? The harvesters of North Ostrobothnia are struggling in mud

Tämä artikkeli on julkaistu
aiemmin lehdessä

Metsälehti
19/2023

[Lue koko lehti >](#)

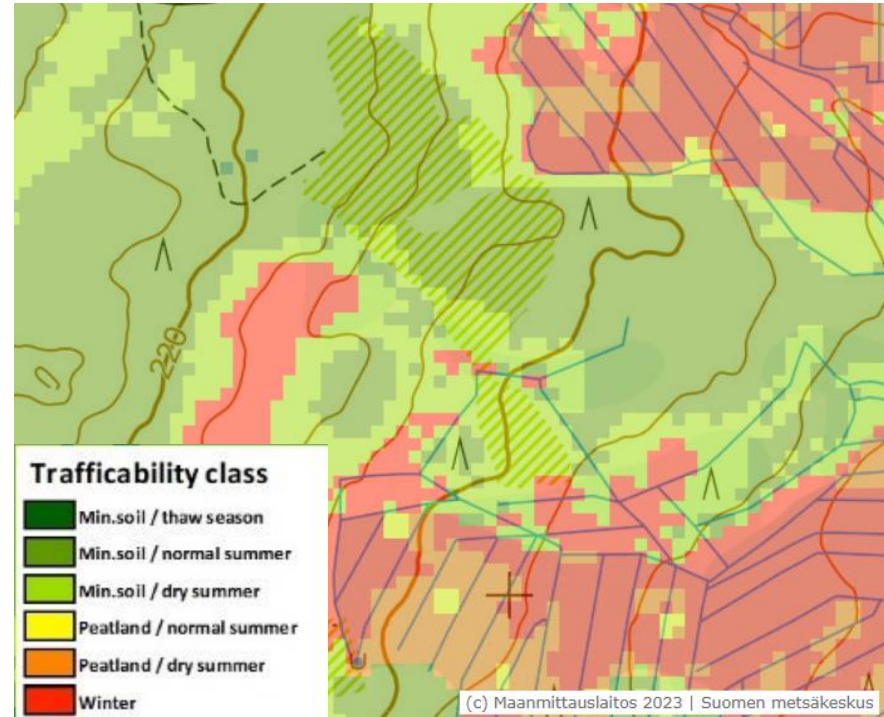
Kirjoittaja

Mikko Riikilä

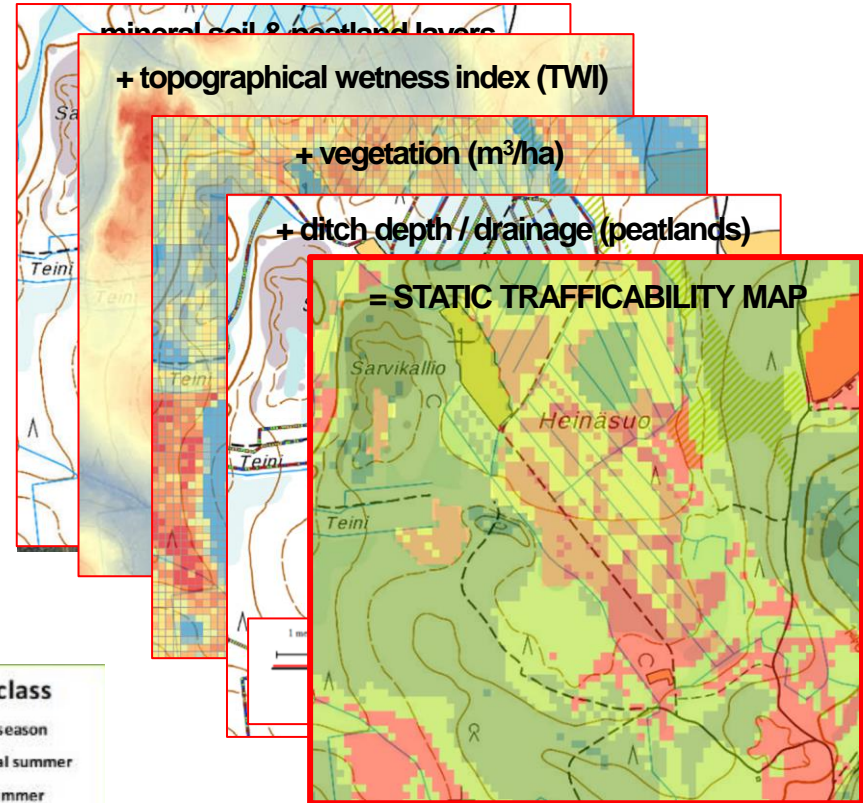
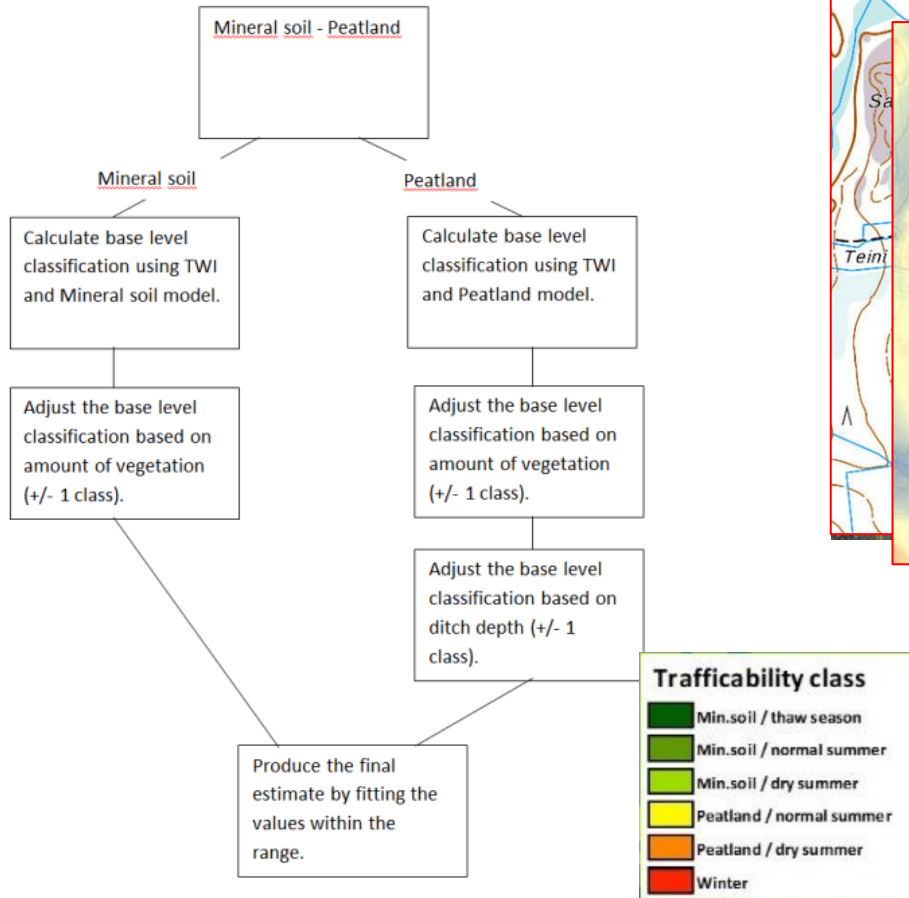
- Image: Pirkko Vuhtoniemi

Static trafficability maps

- In Finland, Finnish forest centre provides trafficability maps, free of charge, for almost entire Finland.
- Maps has been in operational use for about 5 years
- Peatlands and mineral soils are separately divided in 3 or 4 trafficability classes based on most critical factors.
 - Logging operations are possible:
 - only in winter time (worst bearing capacity)
 - also in dry summer
 - also in normal summer
 - any time (also thaw season, best bearing capacity)
 - this option only in mineral soils
- User feedback has been positive, but more dynamic "add-in" is needed



Static trafficability maps



Climate change - case Nordic region

- Temperature increases
 - ⇒ Less snow
 - ⇒ Shorter period of snow cover
 - ⇒ Less cold days, divided by warm periods
 - ⇒ Less frost in the ground
- Average rainfall increases
 - ⇒ More rain especially in autumn and winter
- Exceptional weather conditions increase
 - ⇒ More heavy rains
 - ⇒ More dry summers

⇒ Climate change affects drastically harvesting conditions

⇒ There is increasing need to know when we are able to operate

⇒ **We need to know what is the harvesting season, more precise than just using calendar**



Destination Earth use case forestry Harvester Seasons Webinar

PROGRAM

Klo 9:00 – 10:30

Webinar will be recorded

- Opening and Background of Trafficability Maps in Finland, Research Director **Jukka Malinen**, Metsäteho Oy
- **Destination Earth and Introduction to Harvester Seasons Service, Development Manager Mikko Strahlendorff, Finnish Meteorological Institute**
- Questions and Comments Session
- User Survey of the Service for Participants, Senior Researcher **Heikki Ovaskainen**, Metsäteho Oy



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