**Map of tree carbon stock change, 16m, 2009**–**2015**

The map describes tree carbon stock changes between years 2009 and 2015 on forestry land. The map is based on segmentation of multi-source national forest inventory (MS-NFI) biomass maps. Satellite images are mainly from years 2009 and 2015. Detailed information on MS-NFI-2009 data sources is presented in working paper <https://jukuri.luke.fi/handle/10024/536180>, and for MS-NFI-2015 in working paper <https://jukuri.luke.fi/handle/10024/543826>. They also present coverage areas of different satellite images. Documentary is provided also in Paikkatietoikkuna <https://kartta.paikkatietoikkuna.fi/> and in Luke’s file service <https://kartta.luke.fi/index-en.html>. MS-NFI data source index maps are provided in <http://kartta.luke.fi/>. MS-NFI-2015 data was used in determination of segment boundaries.  
  
The values on the map are amount of carbon stock changes (10 kg C ha-1). Missing data is 32766 and non-forestry areas and background 32767.  
  
Segmented biomass maps included above and below ground tree biomass and were converted to carbon stock map by factor 0.5. The carbon stock change is a difference between 2015 and 2009 maps. More detailed description on the method is presented in the research article.

The data set is produced at Natural Resources Institute Finland (Luke), the study is funded by the Strategic Research Council at the Academy of Finland, Decision no. 312912 (SOMPA) and Horizon Europe

(ForestPaths, project no 101056755).

Haakana, M., Tuominen, S., Heikkinen, J., Peltoniemi, M., Lehtonen A. (2023). Spatial patterns of biomass change across Finland in 2009–2015. ISPRS Open Journal of Photogrammetry and Remote Sensing, Volume 8, 2023, 100036. <https://doi.org/10.1016/j.ophoto.2023.100036>

Resolution: 16\*16m  
Coordinate system: ETRS89 / ETRS-TM35FIN (EPSG:3067)