Metadata form of Silva Fennica

This form is designed for writing the elements of metadata, which are used in the description of research materials such as data and codes. The form is based on the work done in the Work Group "Description of research materials" under the Finnish Open Science Coordination.

Item	Description	Responsible
Remotely sensed data	Airborne laser scanning data, aerial images	Author
Author & ORCID	Norwegian Mapping Authority	Author
Authors' affiliation(s)	https://ror.org/05dz27378	Author
Owner of the material	https://ror.org/05dz27378	Author
Publisher	Laserdata: https://hoydedata.no; Aerial images: https://www.norgeibilder.no/	Author
Funder	https://ror.org/05dz27378	Author
Description	Airborne laser scanner data: The airborne laser data are available for all users at https://hoydedata.no . The wed application allows the user to select the area of interest on a map to get an overview of the available datasets. The datasets can be downloaded from the web application. Aerial images: The aerial images can be downloaded from https://www.norgeibilder.no/ . "Norge i bilder" is a website realized in collaboration between the Norwegian Public Roads Administration, the Norwegian Institute for Bioeconomy (NIBIO) and the Norwegian Mapping Authority. Here you will find an overview of orthophotos (accurate-scale aerial images) that the partners in "Norge digitalt" offer on the internet. "Norge digitalt" is a collaboration between all public agencies that have a responsibility for geodata or are major users of such data. Publishing in Norway in Pictures is also open to data providers outside "Norge digitalt". In Norway in Pictures you can search for, find information about and access orthophotos for all of Norway. There are separate guidelines for downloading and using various services from this solution. Sales of orthophotos to users outside "Norge digitalt" are made through our dealers. Field data: The field data (single tree measurements on 241 field sample plots) were collected as part of an operational forest inventory in 2015, where the main purpose is that they should serve as ground reference data for training regression model to predict forest attributes. The company responsible for the data collection was Glommen-Mjosen Skog SA. The inventory was carried out in Rendalen municipality, south-eastern Norway. The forest attributes for the sample plots used in this study were calculated from the single tree measurements by the authors of the article corresponding to this meta data form. Contact information to Glommen-Mjosen Skog is: Glommen Mjosen Skog SA Grindalsvegen 3 2406 Elverum Contact person: Erik Ødegård	Author

Methods	The study used data from a regular forest management inventory in Rendalen, Norway. Field measurements included tree species, diameter at breast height (dbh), and tree height. Four forest attributes (plot basal area, plot volume, basal area-weighted mean height, and dominant height) were calculated. ALS and DAP point clouds were generated from data acquired in 2015 and 2018 using various software packages (Agisoft, MatchAT1, MatchAT2, Pix4D, SURE). Statistical analyses compared model performance for ALS and DAP data.	Author
Variables	NA	Author
Author keywords	Laserdata: https://hoydedata.no; Aerial images: https://www.norgeibilder.no/	Author
Vocabulary keywords (community standard)	NA.	Author
Discipline	Forest inventory, remote sensing	Archive/Repos itory/Publisher
Type of material	Point data from laser scanning; RGB aerial images	Author
Language	Nor; eng	Author
Time range covered	2015-09-29 2018-05-29	Author
Geographic region	Rendalen municipality, Innlandet county, eastern Norway. NOR (578)	Author
Version	NA	Author
File format(s)	ISON; LAZ	Author
Availability of the materials (open, embargo, registration, limited, registration required)	The remotely sensed data are available through web applications as described above. Requests for field data must be directed to Glommen-Mjøsen Skog.	Author
Justification for access restrictions	The remotely sensed data are available, but the field data are company assets for the forest owner association Glommen-Mjøsen Skog	Author
Licence	Freely open remotely sensed data.	Author
Connections with other research materials	IsBasedOn	Author
Access to the connected research materials	Laserdata: https://hoydedata.no; Aerial images: https://www.norgeibilder.no/	Author
Codes only: hardware/software requirements for running the code	Codes used in the study can be made available by reasonable request by email to the first author.	Author
Connections to other products of research	NA	Author
Personal data	NA	Author
Confidential or secret data	NO	Author
Publication date	NA	Archive/Repos itory/Publisher
Preservation policy	Maintained by the Norwegian Mapping Authority	Author
Permanent identifier (PID)	Laserdata: https://hoydedata.no; Aerial images: https://www.norgeibilder.no/	Archive/Repos itory/Publisher