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
Name of the data / code	JulFrey/dotshadow: Dotshadow - create a polygon reconstruction of vegetation from terrestrail LiDAR data for radiative transfer modelling	Author
Author & ORCID	Frey, Julian https://orcid.org/0000-0001-7895-702X, Zoe, Schindler https://orcid.org/0000-0003-2972-1920 Kröner, Katja https://orcid.org/0009-0001-9896-8057	Author
Authors' affiliation(s)	Chair of Forest Growth and Dendroecology, University of Freiburg, Freiburg im Breisgau, Germany https://ror.org/0245cg223	Author
Owner of the material	Chair of Forest Growth and Dendroecology, University of Freiburg, Freiburg im Breisgau, Germany https://ror.org/0245cg223	Author
Publisher	Zenodo https://zenodo.org/records/14204435	Author
Funder	DFG, German Research Foundation) – Project FR 4404/1-1	Author
Description	This material contains the code for the leaf reconstruction as well as the par measurement data and the TLS scanning data.	Author
Methods		Author
Variables	Sensor_tem_c: sensor temperature in degrees C of the PAR sensors Time_utc: date and time in utc Channel: recording channel of the logger Par_uV: raw PAR measurement in micro Volts Logger: the ID of the logger Par_umolm2s: calculated par in micromol per m^2 and s Structure: ID of logger frame	Author
Author keywords	leaf geometry;LESS;Light modelling;Malus domestica;PAR;structural tree model;terrestrial laser scanning	Author
Vocabulary keywords (community standard)		Author
Discipline	Radiative transfer modelling, remote sensing	Archive/Repository/Publisher
Type of material	data, model code	Author
Language	eng	Author
Time range covered	2023-08-10 10:10:00 - 2023-08-10 15:15:00	Author
Geographic region	48°00'03.1"N, 7°48'01.0"E	Author
Version		Author
File format(s)	.csv, .las, .obj, .R	Author
Availability of the materials (open, embargo, registration, limited, registration required)	Online available under open access license https://github.com/JulFrey/dotshadow/tree/main	Author
Justification for access restrictions		Author
Licence	GPL-3.0 license	Author
Connections with other research materials		Author

Access to the connected research materials		Author
Codes only: hardware/software requirements for running the code	R statistical software version >4.2	Author
Connections to other products of research		Author
Personal data		Author
Confidential or secret data		Author
Publication date	2024-11-22	Archive/Repository/Publisher
Preservation policy		Author
Permanent identifier (PID)	https://doi.org/10.5281/zenodo.14204435	Archive/Repository/Publisher