

Curriculum Vitae
Dr. Maria Shchepashchenko



Researcher

Novel Data Ecosystems for Sustainability (NODES)
Advancing Systems Analysis Program (ASA)
International Institute for Applied Systems Analysis (IIASA)
Schlossplatz 1, A-2361 Laxenburg, Austria
shchepas@iiasa.ac.at | <https://iiasa.ac.at/programs/asa/nodes>

Bio

Maria Shchepashchenko is a researcher in the Novel Data Ecosystems for Sustainability (NODES) Research Group within the Advancing Systems Analysis Program at IIASA.

She brings over 30 years of research and teaching experience in plant physiology, forest ecology, forest certification, and remote sensing.

Her recent project involvement includes: Open-Earth Monitor (OEMC), Mapping forest management (NEFM) and Copernicus Global Land Cover and Tropical Forest Mapping and Monitoring service (LCFM).

Shchepashchenko holds a degree in forestry and a PhD in ecology from the Moscow State Forest University, as well as a Certificate of Associate Professor awarded by the State Committee for Higher Education of the Russian Federation.

Professional employment history:

- 2023- **Researcher** *International Institute for Applied Systems Analysis, Laxenburg, Austria*
- 2018–2022 **Consultant** (fee contracts 04-06/2018, 06-07/2020, 11/2020-02/2021, 02-03/2022, 09-10/2022) *Wageningen University, Department of Environmental Sciences, Wageningen, the Netherlands.*
- 2005–2022 **Associate Professor** (since 2007 - part-time), *All-Russian Institute of Continuous Education in Forestry. Pushkino, Moscow reg., Russia.*
- 2000–2005 **Head** of Ecology and Forestry Department, *All-Russian Institute of Continuous Education in Forestry. Pushkino, Moscow reg., Russia.*
- 1990–1999 **Assistant Professor**, *Moscow State Forest University, Botany and Plant Physiology Department. Mytischki, Moscow reg., Russia.*

Education:

- 1989–1993 PhD student. *Moscow State Forest University, Russia. Candidate of science (equivalent to Ph.D.) in ecology (1994).*
- 1984–1989 undergraduate student. *Moscow State Forest University, Russia. Dipl. Engineer in forestry and plant physiology.*

Languages:

- Russian – mother language
English – independent user
German – independent user

Computer skills: familiar with Microsoft Office, Geo-Wiki.org and various applications.

Social skills and competences:

Team spirit, good communication and organizing skills gained through my work experience.

Selected publications:

- See L., Chen Q., Crooks, A., ..., Shchepashchenko M. et al. (2025). New Directions in Mapping the Earth's Surface with Citizen Science and Generative AI. *iScience* e111919. 10.1016/j.isci.2025.111919.
- Fritz S., Lesiv M., See L., ..., Shchepashchenko M. at al. (2024). A new global hybrid map of annual herbaceous cropland at a 500 m resolution for the year 2019. *Environmental Research Letters* 19 (8) e084025. 10.1088/1748-9326/ad6a71
- Schepaschenko D., Moltchanova E., Fedorov S., ..., Shchepashchenko M., et al. (2021). Russian forest sequesters substantially more carbon than previously reported. *Scientific Reports* 11 (1) e12825. <https://doi.org/10.1038/s41598-021-92152-9>.
- Schepaschenko D., Chave J., Phillips O.L., ..., Shchepashchenko M., at al. (2019) The Forest Observation System, building a global reference dataset for remote sensing of forest biomass. *Scientific data* 6(1), article number: 198. <https://www.nature.com/articles/s41597-019-0196-1>
- Lesiv M., Schepaschenko D., Molchanova E., ..., Shchepashchenko M., et al. (2018) Spatial distribution of arable and abandoned land across former Soviet Union countries. *Scientific data*. 5,180056. <https://doi.org/10.1038/sdata.2018.56>
- Schepaschenko D., See L., Lesiv M., ..., Shchepashchenko M., et al. (2015) Development of a global hybrid forest mask through the synergy of remote sensing, crowdsourcing and FAO statistics. *Remote Sensing of Environment*. 162, pp. 208-220. DOI: 10.1016/j.rse.2015.02.011.
- Fritz S., See L., Mccallum I., ..., Schepaschenko M. et al. (2015) Mapping global cropland and field size. *Global Change Biology*. 21(5), pp. 1980-1992. DOI: 10.1111/gcb.12838.
- See L., Schepaschenko D., Lesiv M., ..., Schepaschenko M., et al. (2015) Building a hybrid land cover map with crowdsourcing and geographically weighted regression. *ISPRS Journal of Photogrammetry and Remote Sensing*. 103, pp. 48-56. DOI: 10.1016/j.isprsjprs.2014.06.016.