RETROCHANGE SERVICES

Terms of Use

Provider	Technical University in Zvolen (Technická univerzita vo Zvolene, "TUZVO"), T. G. Masaryka 24, 960 01 Zvolen, Slovak Republic, IČO 00 397 440. Faculty of Forestry, Department of Forest Resource Planning and Informatics
Services covered	(1) RETROCHANGE Interactive Web Map – https://maps.tuzvo.sk/retrochange (2) RETROCHANGE Web Map Services (ArcGIS REST and OGC WMS) – https://maps.tuzvo.sk/ags/rest/services/retrochange Available UCs: High Tatras historical land-cover mapping (retrocover, Landscape); High Tatras mountain forest classification (retroforest); Poloniny forest fragmentation (retrofrag); and Poloniny Havešová canopy-gap analysis (retrocanopy). Access routes and package-specific instructions are given with each UC.
Document ID / version	TUZVO-RETROCHANGE-TOU-01, version 1.0
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Related documents	RETROCHANGE Services – Privacy Policy (TUZVO-RETROCHANGE-PP-01); EOSC Node Slovakia – Terms of Use (EOSC-SK-TOU-01)

1. Scope and acceptance

1.1 These Terms govern access to and use of the RETROCHANGE Interactive Web Map and RETROCHANGE Web Map Services (ArcGIS REST and OGC WMS), and use of data made available through them. Downloadable GeoTIFF packages are subject to the separate registration and licence acceptance steps described in section 3. The Services were developed within the research project RETROCHANGE – Retrospective Analysis of Forest and Landscape Changes from Historical Satellite Imagery, supported by EOSC Gravity, funded by the European Union.

1.2 The Services are described in the EOSC Node Slovakia Service Catalogue (https://sc.eosc.sk) as RETROCHANGE pilot use cases. TUZVO provides the RETROCHANGE Services; CVTI SR operates the Node catalogue and helpdesk under their own applicable terms. A catalogue listing does not itself make a pilot service a production service.

1.3 Use of the map and map services is free of charge. By using them you agree to these Terms. Registration and acceptance of the dataset licence are required before downloading GeoTIFF packages through the RETROCHANGE download page.

1.4 These Terms also cover all four available RETROCHANGE use cases (UCs) and their published applications, notebooks, example data, documentation and results: (1) High Tatras historical land-cover mapping (RETROCOVER); (2) High Tatras mountain forest classification from KH-9 imagery (RETROFOREST); (3) Poloniny forest-fragmentation analysis (RETROFRAG); and (4) Poloniny Havešová canopy-gap analysis (RETROCANOPY). A UC is a research application or workflow, not a guarantee of a particular analytical result.

2. Nature and status of the Services

2.1 The Services are research outputs offered on a best-effort basis. The Interactive Web Map is also a demonstration environment for the Web Map Services. The GeoTIFF packages are separate downloadable data products; their README.txt and LICENSE.txt provide dataset-specific information.

2.2 No service level agreement (SLA) applies. TUZVO aims for continuous availability but may change, update, interrupt (for example for maintenance) or discontinue any Service, layer or endpoint,

including without prior notice. Where possible, significant changes and discontinuation will be announced on https://gis.tuzvo.sk/retrochange and in the Service Catalogue record.

3. Access

3.1 The Interactive Web Map and Web Map Services may be viewed without registration or login. Access to GeoTIFF package downloads requires submission of a name, institution and email address through the registration form, followed by acceptance of the stated dataset licence. Registration does not create a reusable user account.

3.2 The Services are intended mainly for research, education, environmental monitoring and nature conservation. Reuse, including commercial reuse, is governed by the applicable licence in section 5 and in the dataset-specific files. For intensive or automated requests that may affect availability, contact TUZVO first (section 8).

3.3 For downloadable packages, registration is an access step only. The CC BY 4.0 licence governs permitted reuse of licensed material; registration does not impose additional downstream limits on that reuse.

3.4 All four UCs are available. Follow the published access and user instructions for RETROCOVER, RETROFOREST, RETROFRAG or RETROCANOPY. Where a notebook package is provided, it may be run on your own computer or uploaded to a computing platform such as EOSC EU Node JupyterHub. Access requirements and package contents depend on the chosen distribution channel; registration applies when a package is obtained through the RETROCHANGE registered download flow.

3.5 If you run a use case on a third-party platform, that platform's account, acceptable-use, storage and privacy terms apply to your use of it. You are responsible for selecting and lawfully using any data that you upload or supply, for protecting confidential or personal information in those data, and for securing your own computing environment.

4. Acceptable use

4.1 You must use the Services lawfully and with consideration for other users. In particular, you must not:

- attempt to breach or circumvent security or access controls, or probe or scan the infrastructure without permission;
- overload the Services through automated requests or bulk harvesting that materially degrades availability for others;
- present the data as authoritative official, legal, cadastral or survey-grade information, or misrepresent its origin;
- use the Services in breach of EU or Slovak law, including restrictive measures (sanctions) and export-control rules.

4.2 TUZVO may rate-limit or block traffic that endangers the operation or security of the Services. Please report any security vulnerability or misuse you notice (section 8).

5. Data, licences and attribution

5.1 RETROCHANGE-derived imagery and GeoTIFF packages are offered under Creative Commons Attribution 4.0 International (CC BY 4.0; https://creativecommons.org/licenses/by/4.0/), to the extent TUZVO holds licensable rights. The dataset-specific README.txt and LICENSE.txt should be consulted for the particular package. These Terms do not add restrictions to rights granted under CC BY 4.0.

5.2 The original declassified KH-9 (HEXAGON) source imagery was obtained from the U.S. Geological Survey (USGS), EROS Center. USGS describes most EROS imagery as U.S. federal public-domain material; check the source record for any third-party rights. Credit USGS as the source. TUZVO does not claim copyright in the unmodified public-domain source imagery.

5.3 Supporting layers, including map-sheet grids, generalised national park boundaries and use-case areas of interest, are for visualisation and research context and are not authoritative legal or cadastral boundaries. Their rights and permitted reuse must be checked in the relevant service or dataset metadata; section 5.1 does not automatically apply to them.

5.4 Third-party content. Contemporary orthophotos, basemaps and other external layers shown in the Interactive Web Map come from their respective providers and are subject to those providers' terms. They are not covered by the CC BY 4.0 licence above.

5.5 When sharing or adapting CC BY 4.0 material, identify the creator, provide the licence link, indicate changes and retain any attribution information supplied with the dataset. A recommended citation is:

> *Technical University in Zvolen (2026). RETROCHANGE project. https://gis.tuzvo.sk/retrochange. Source imagery: declassified KH-9 (HEXAGON) satellite imagery courtesy of the U.S. Geological Survey (USGS), EROS Center.*

5.6 We also ask you, as a matter of good scientific practice, to acknowledge the RETROCHANGE project and EOSC Node Slovakia where the Services contributed to your research outputs.

5.7 The CC BY 4.0 statement in section 5.1 applies only to material specifically identified as licensed under it. Applications, notebooks, software code, guides, example rasters, third-party imagery, user-supplied inputs and generated outputs may have different rights. Check the licence and attribution notices accompanying each use-case component before copying, modifying or redistributing it. Running a workflow does not transfer ownership of your input data to TUZVO.

5.8 You may use and share your own analytical outputs only to the extent permitted by the rights in their input data, software and other incorporated material. Identify the method, data sources, parameters and relevant limitations when reporting results; do not imply that TUZVO or EOSC has endorsed your analysis.

6. Disclaimer and liability

6.1 The Services and data are provided **"as is"**, without any warranty of availability or of positional, radiometric or thematic accuracy. Accuracy may vary spatially because of the original image geometry and the georeferencing and mosaicking procedures. The data are not intended for cadastral, legal, engineering or survey-grade applications.

6.2 To the extent permitted by applicable law, TUZVO excludes liability for loss arising from use of, or inability to use, the Services or data. Nothing in these Terms excludes or limits liability where exclusion or limitation is prohibited by mandatory law.

6.3 The four UCs are research applications. Results depend on input quality, preprocessing, parameters, expert interpretation and software environment. RETROCOVER produces an interpreted historical land-cover baseline; editing-version comparisons are not automatically temporal landscape change. RETROFOREST classification requires scene-specific validation. RETROFRAG measures fragmentation of supplied forest maps and does not itself classify imagery. RETROCANOPY detections are image-derived candidates, not ground-confirmed canopy gaps. Review and validate outputs before relying on them in research, management or decisions.

7. Personal data

7.1 The map and map services require no account. GeoTIFF downloads require registration, and TUZVO records registration, licence choices and download requests. The RETROCHANGE Services – Privacy Policy explains the related personal-data processing and technical logs.

7.2 Using a published notebook on your own computer does not itself submit your input data or generated outputs to TUZVO. Accessing TUZVO-hosted use-case pages or downloads may generate technical logs; the Privacy Policy describes this processing. A separate computing platform processes data under its own privacy terms.

8. Support and contacts

Helpdesk (support, questions, outages)	EOSC Node Slovakia helpdesk – https://hd.eosc.sk, helpdesk.eosc@cvtisr.sk. Tickets about the Services are passed to TUZVO.
Service / scientific contact	Milan Koreň – milan.koren@tuzvo.sk
Security issues	via the helpdesk (mark the ticket "SECURITY") or directly to the service contact
Data protection	dpo@tuzvo.sk

9. Changes and governing law

9.1 TUZVO may update these Terms. The current version and effective date will be published with the Services. Material changes will be announced where practicable before they take effect. Use after the effective date is subject to the updated Terms, without affecting rights already granted under an applicable data licence.

9.2 These Terms are governed by the law of the Slovak Republic and applicable EU law. Disputes fall under the competent courts of the Slovak Republic. If any provision is invalid, the remaining provisions stay in force.