

Seismic monitoring in Slovenia

Jurij Pahor

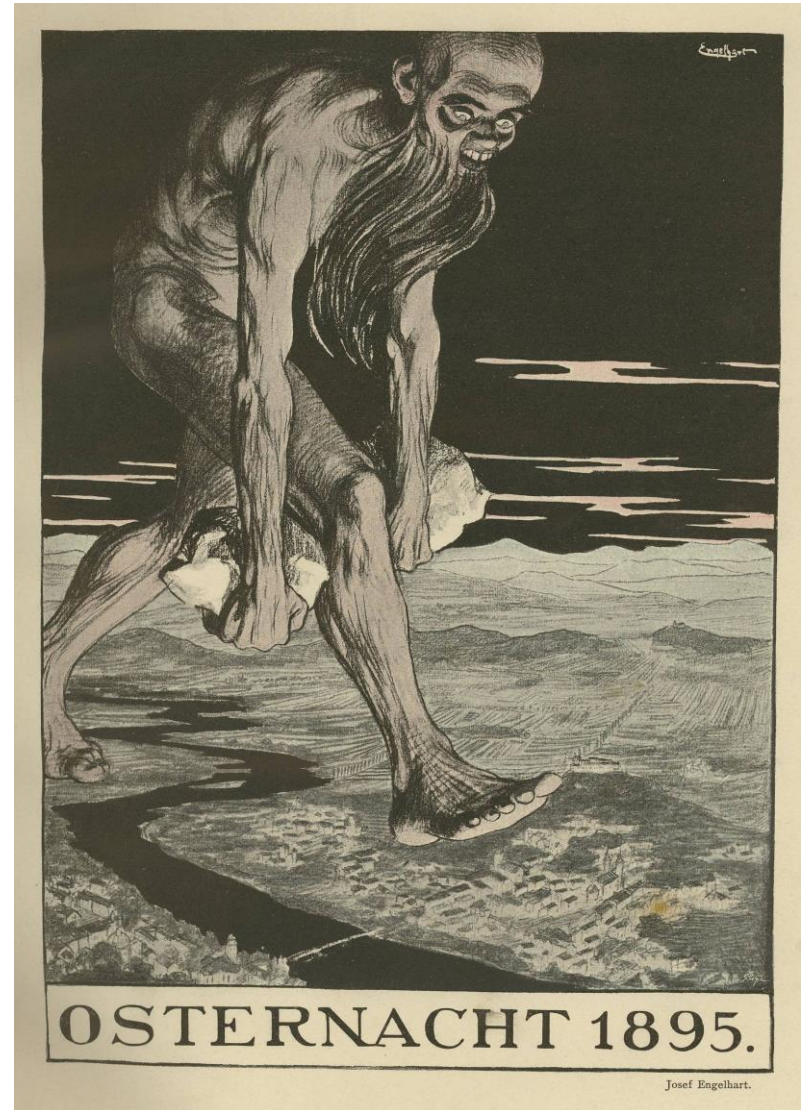
ARSO

Political Map of Europe

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1895 Earthquake in Ljubljana



1897 – 1919 First seismic observatory

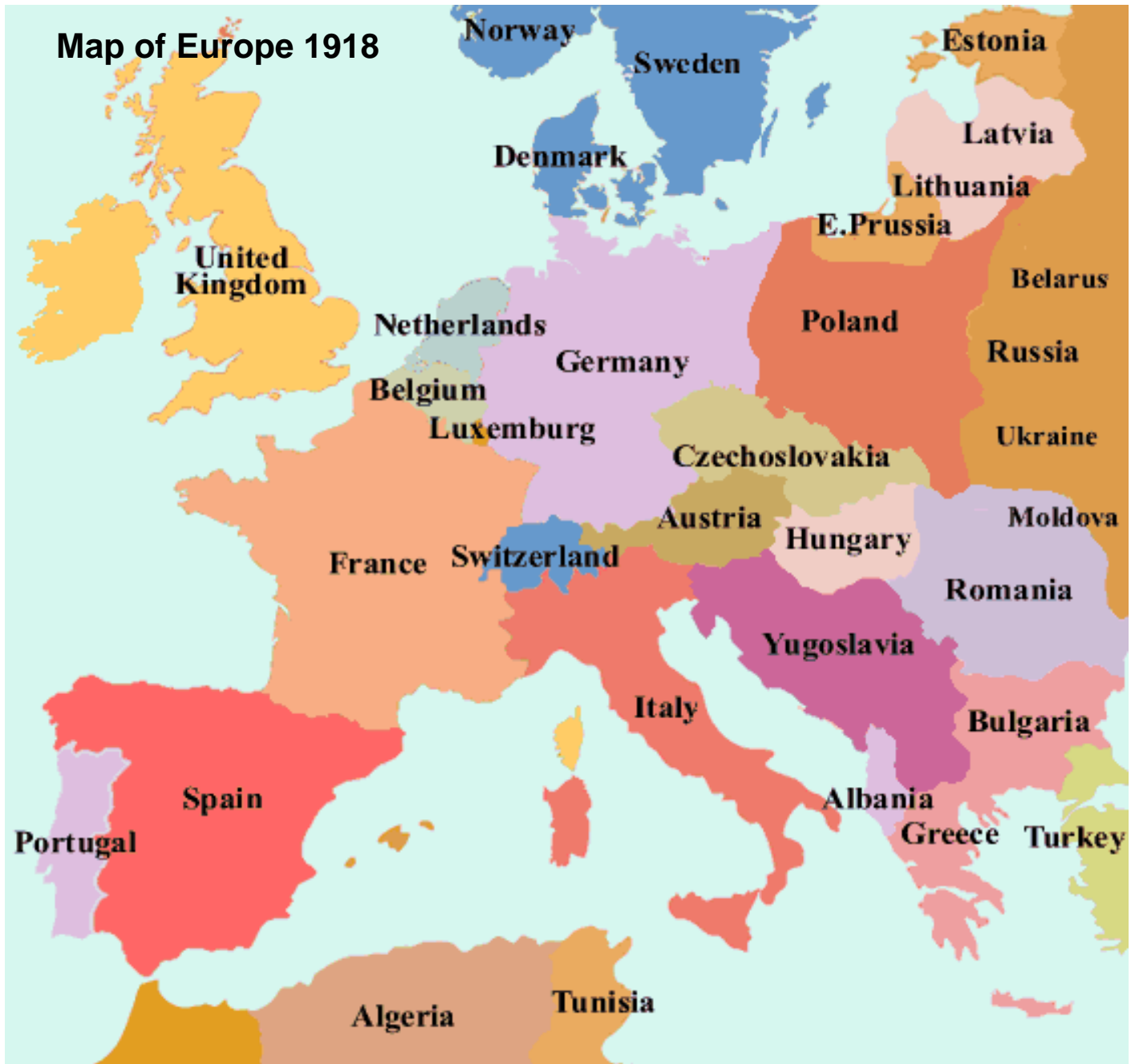


dr. Albin Belar

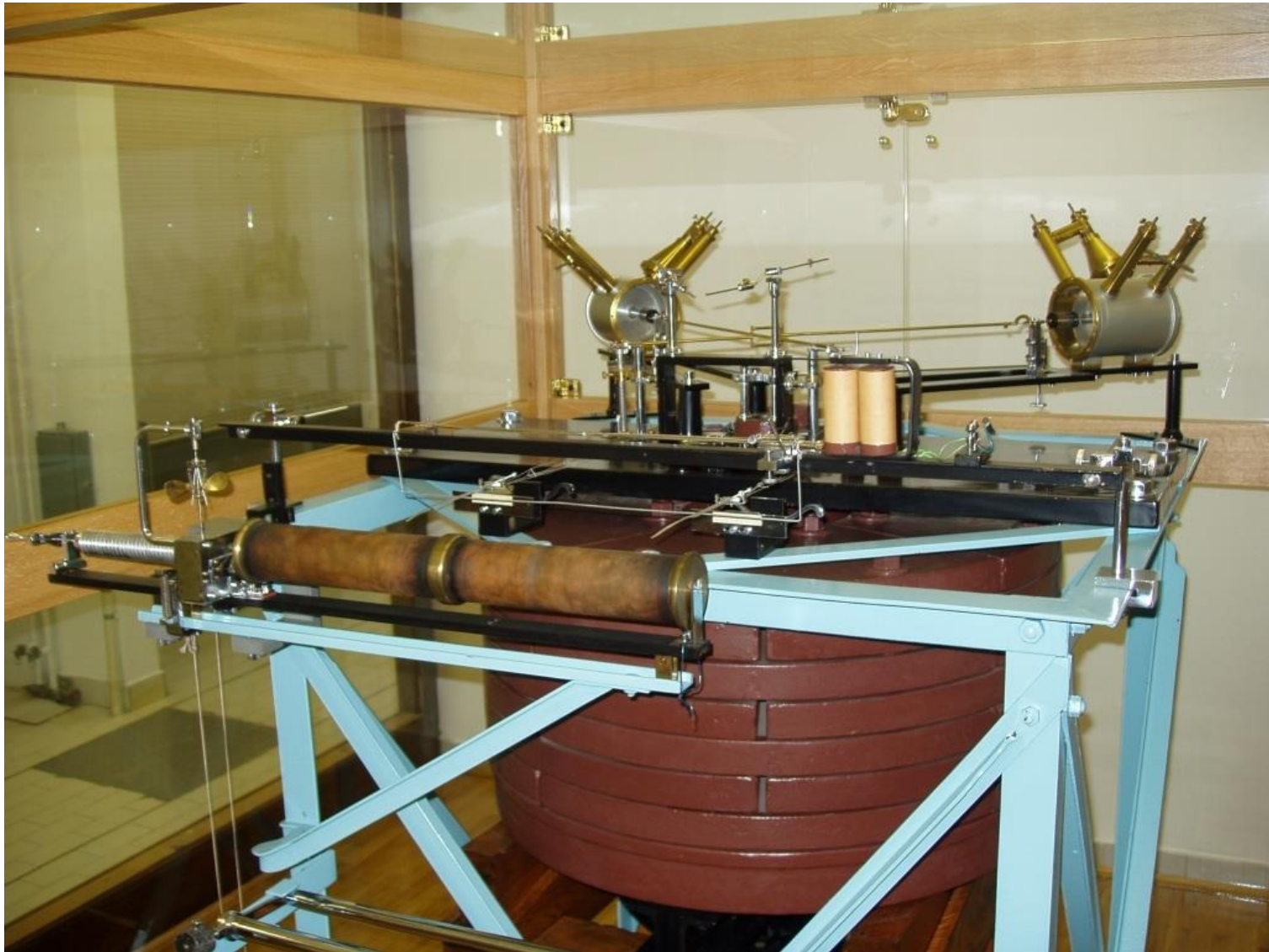
Map of Europe 1900



Map of Europe 1918



1924 - 1841 Observatory of Ljubljana



(Wiechert seismograph in Zagreb)

1958 Observatory of Ljubljana

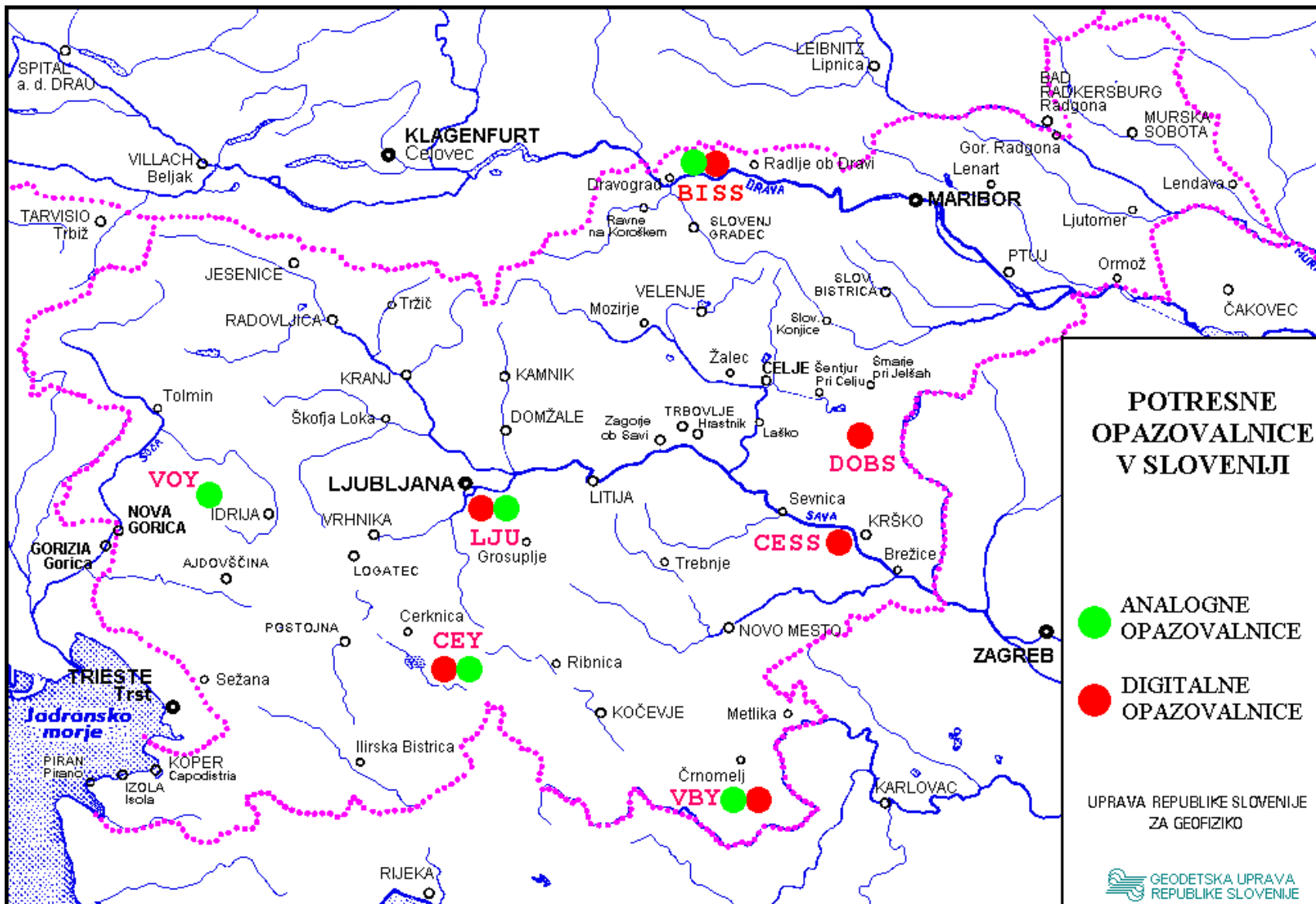


Prof. Vladimir Ribarič

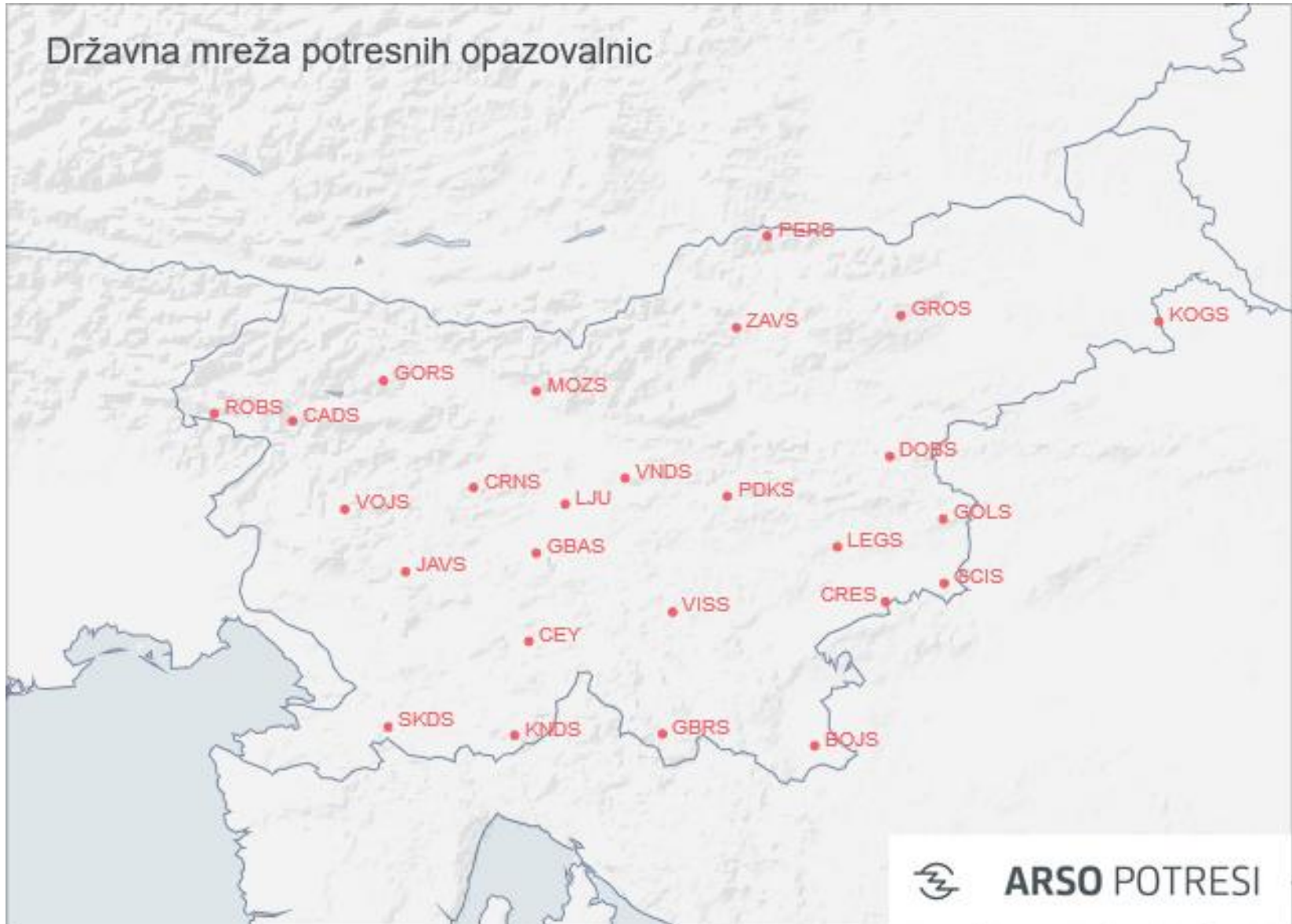
1990 First digital seismometer



1996 Seismic network



2008 Seismic network



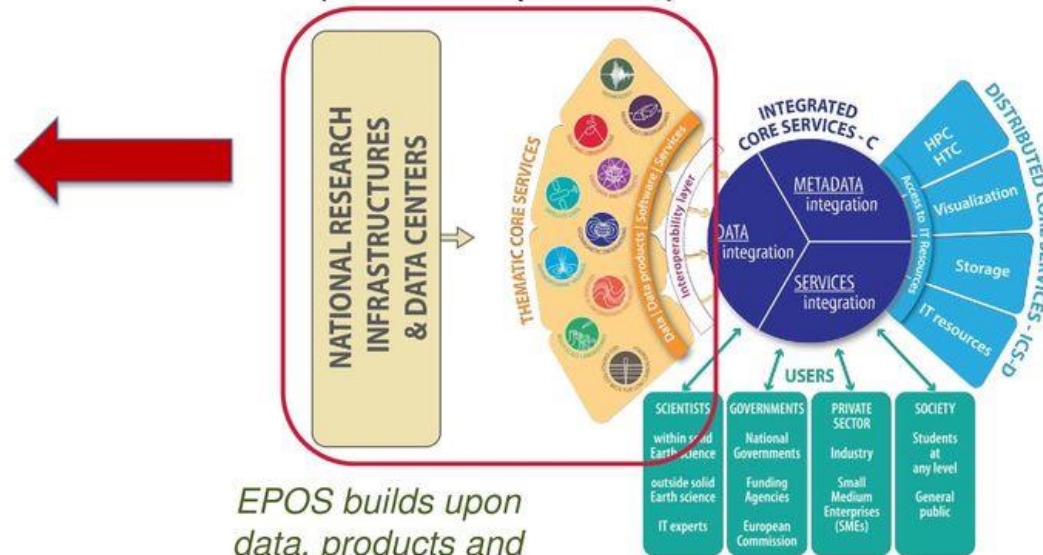
Typical seismic station



EPOS & EIDA

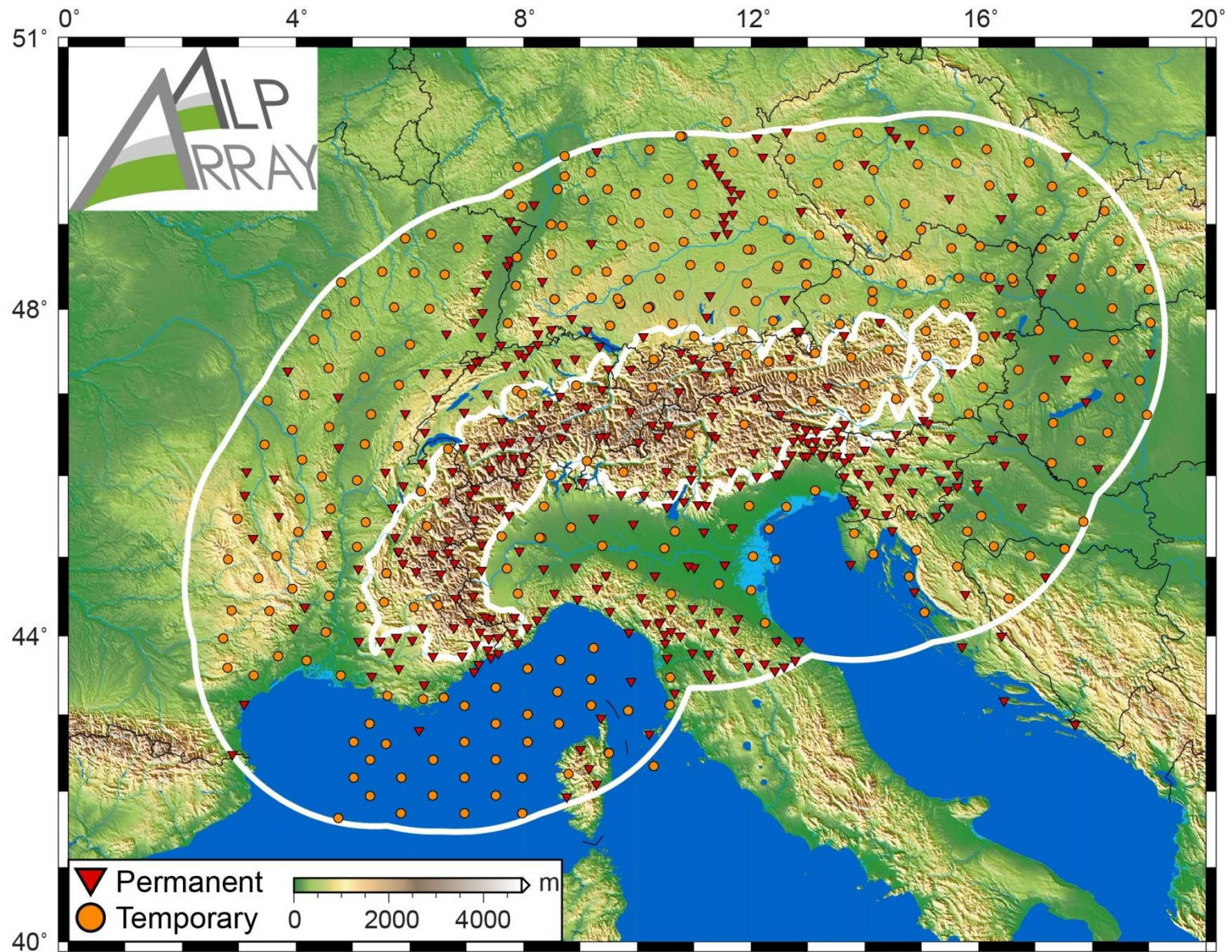


- ORFEUS is the European infrastructure for seismic waveform data in EPOS.
- EIDA is the ORFEUS federated data center established to securely archive and distribute seismic waveform data and metadata gathered by European research infrastructures (Network operators).



EPOS builds upon data, products and services contributed by national infrastructures

AlpArray



CE3RN



2000 ARSO Slovenian Environment Agency

The screenshot shows the website interface for the Slovenian Environment Agency (ARSO). At the top, the browser address bar displays 'www.arso.gov.si/en/'. The main header features the agency's logo and name: 'REPUBLIC OF SLOVENIA MINISTRY OF THE ENVIRONMENT AND SPATIAL PLANNING SLOVENIAN ENVIRONMENT AGENCY'. To the right, there is a language selector set to 'Slovensko', a dropdown menu for 'Government sites', and two search boxes labeled 'this site' and 'all ARSO sites'. Below the header is a horizontal navigation menu with categories: AIR, WATER, ENVIRONMENTAL PROTECTION, NATURE, CLIMATE CHANGE, WEATHER, and SEISMOLOGY. A sub-menu for 'ARSO' is expanded, showing a list of 'PORTALS' with icons and links: 'Environmental atlas of Slovenia', 'Eionet in Slovenia', 'Environmental indicators in Slovenia', 'Catalogue of Data Sources on the Environment', 'SOKOL - Eco-pics gallery', and 'Weather portal'. The main content area is titled 'Slovenian Environment Agency' and contains a paragraph describing the agency's role and a list of its tasks. The footer includes logos for 'SI' (ISO 9001 Q-629) and 'Košice'.

www.arso.gov.si/en/

REPUBLIC OF SLOVENIA
MINISTRY OF THE ENVIRONMENT AND SPATIAL PLANNING
SLOVENIAN ENVIRONMENT AGENCY

Slovensko
Government sites
About the agency
this site search
all ARSO sites search

AIR WATER ENVIRONMENTAL PROTECTION NATURE CLIMATE CHANGE WEATHER SEISMOLOGY

▶ ARSO

PORTALS

- Environmental atlas of Slovenia
- Eionet in Slovenia
- Environmental indicators in Slovenia
- Catalogue of Data Sources on the Environment
- SOKOL - Eco-pics gallery
- Weather portal

Slovenian Environment Agency

Slovenian Environment Agency performs expert, analytical, regulatory and administrative tasks related to the environment at the national level. Our primary objective is to become a leading, effective and trustworthy environmental institution, capable of disseminating knowledge to other related institutions around the world.

The Environment Agency is a body of the Ministry of the Environment and Spatial Planning. Its mission is to monitor, analyse and forecast natural phenomena and processes in the environment, and to reduce natural threats to people and property. The following tasks are performed by the national services for meteorology, hydrology and seismology:

- preserving natural resources, biodiversity and sustainable development;
- observing, analysing and forecasting natural phenomena and processes in the environment;
- reducing impact of natural hazards;
- ensuring legal protection and professional assistance to participants in environmental encroachment procedures;
- aiding change of national and personal values system in relation to the environment as well as influencing the value criteria for environmental encroachments;
- ensuring high-quality environmental data for all target groups;
- raising the awareness of people and institutions about the environment and environmental issues.

SI ISO 9001 Q-629 KOSICE

2017 ARSOpoje



Seismic bulletins

Vsi potresi

Potresi, ki so jih čutili

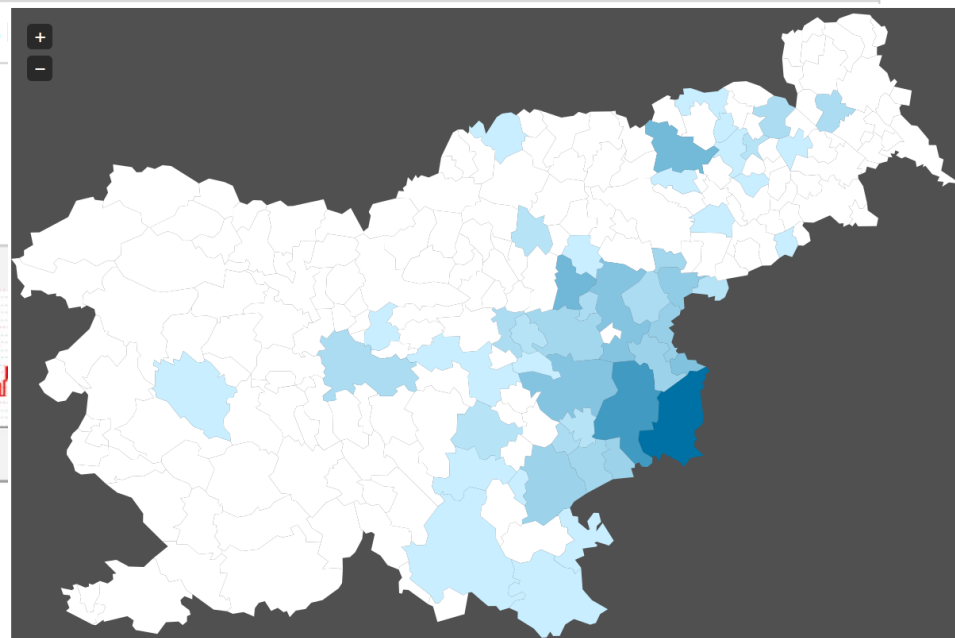
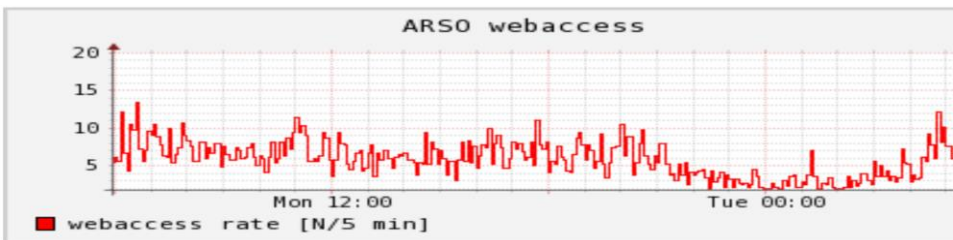
Magnituda ≥ 1

Magnituda ≥ 2

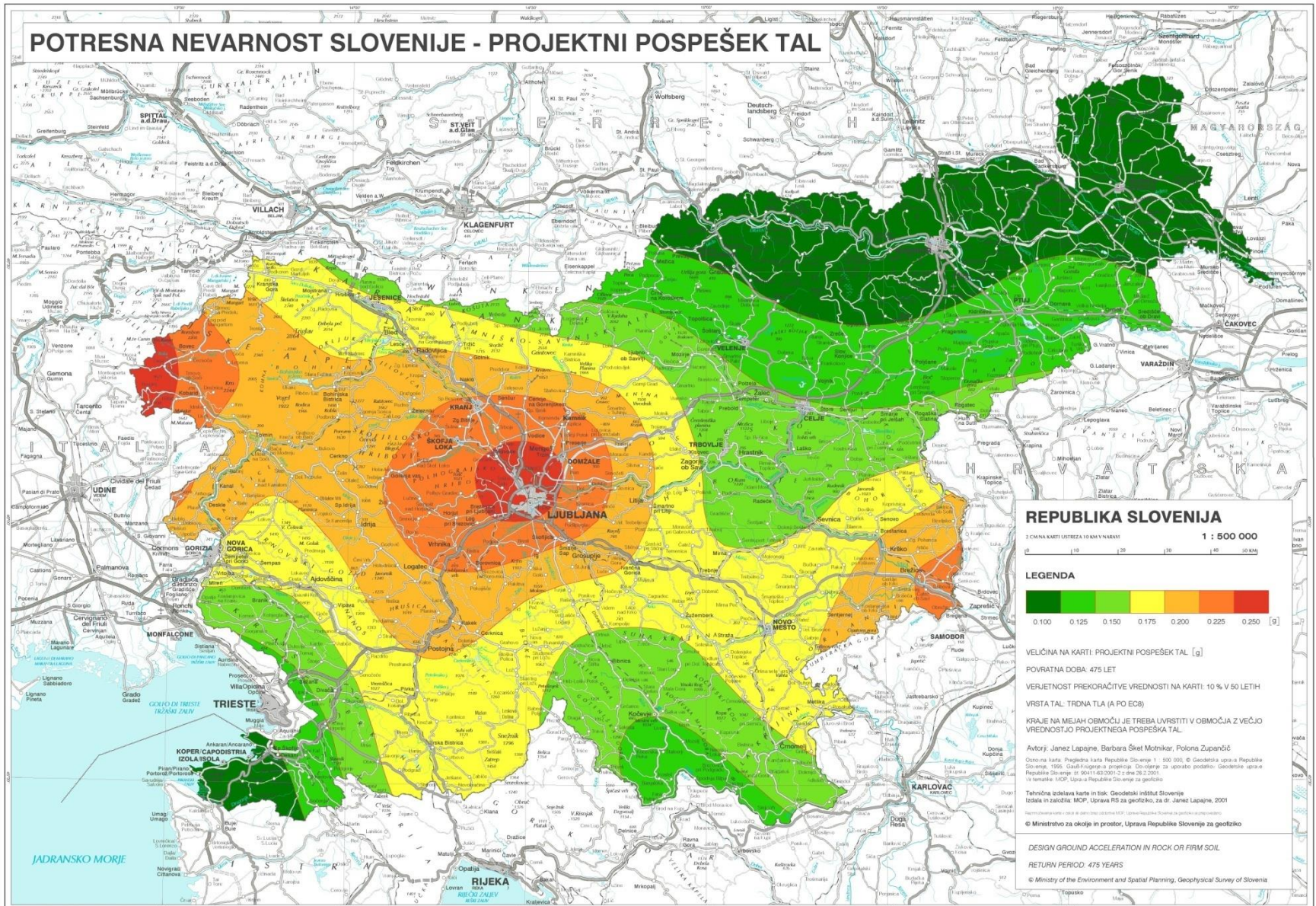
Magnituda ≥ 3

posodobljeno: 26. 5. 2019 ob 17.21

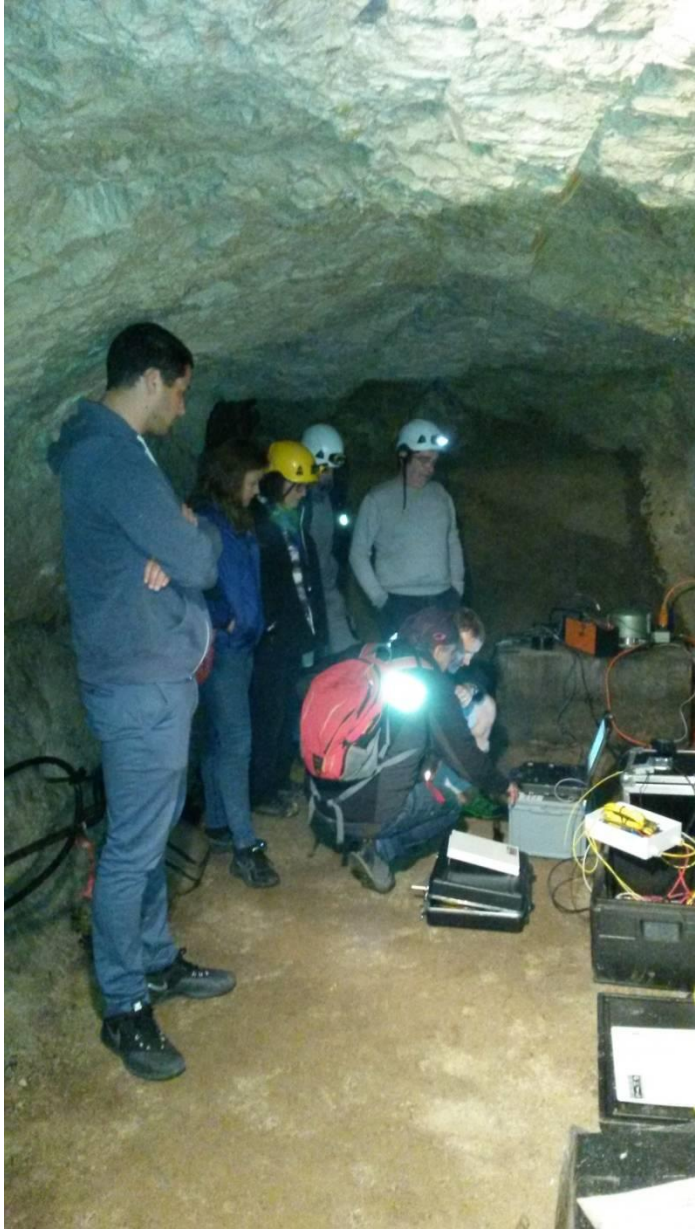
Datum/čas v Sloveniji	Mag.	Najv. int.	Nadžarišče	Vprašalniki
✓ 19. 5. 2019 ob 16.01	1,0	čutili	2 km JZ od Medvod	2 >
✓ 10. 5. 2019 ob 20.47	0,6	čutili	5 km JZ od Medvod	1 >
✓ 9. 5. 2019 ob 15.52	2,6	IV	6 km JV od Domžal	539 >
✓ 9. 5. 2019 ob 5.14	2,9	IV	9 km V od Nove Gorice	867 >
✓ 5. 5. 2019 ob 1.32	1,7	III	3 km JV od Kozjega	13 >
✓ 3. 5. 2019 ob 5.50	1,5	III	9 km V od Jelšan	7 >
✓ 2. 5. 2019 ob 17.25	0,9	čutili	7 km SV od Ivančne Gorice	1 >
✓ 2. 5. 2019 ob 16.53	0,3	čutili	6	



Seismic hazard



Cave seismology



Redundancy

ARSO



Golovec



???



Greetings from Seismology Group

