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Shaping the future
with the past
70
YEARS



THE GEOLOGICAL ATLAS OF SLOVENIA SIGNIFICANTLY INCREASES ACCESSIBILITY OF THE SLOVENIAN SPATIAL GEOLOGICAL DATA. THE COLLECTED MATERIAL REFLECTS HIGH PRACTICAL VALUE OF GEOSCIENTIFIC RESEARCH AND THE DATA OBTAINED FOR ENVIRONMENTAL PLANNING, MANAGEMENT AND MONITORING ALONG WITH ENVIRONMENTALLY SUSTAINABLE DEVELOPMENT. THE ATTRACTIVELY DESIGNED ATLAS CONTRIBUTES TO THE RECOGNITION OF THE IMPORTANCE OF GEOLOGY, ALSO IN EVERYDAY LIFE.

1 OSNOVNE GEOLOŠKE KARTE

BASIC GEOLOGICAL MAPS

2 GEOFIZIKALNE KARTE

GEOPHYSICAL MAPS

3 GEOTERMIČNE KARTE

GEOTHERMAL MAPS

4 HIDROGEOLOŠKE KARTE

HYDROGEOLOGICAL MAPS

5 GEOKEMIČNE KARTE

GEOCHEMICAL MAPS

6 HIDROGEOKEMIČNE KARTE

HYDROGEOCHEMICAL MAPS

7 KARTE MINERALNIH SUROVIN

MAPS OF MINERAL RESOURCES

8 INŽENIRSKO-GEOLOŠKE KARTE IN

KARTE GEOLOŠKO POGOJENIH NEVARNOSTI

ENGINEERING-GEOLOGICAL

AND GEOHAZARD MAPS

9 GEOMORFOLOŠKE KARTE

GEOMORPHOLOGICAL MAPS

10 PEDOLOŠKE KARTE

PEDOLOGICAL MAPS

11 KARTE GEOLOŠKE NARAVNE DEDIŠČINE

GEOLOGICAL NATURAL HERITAGE MAPS

GEOLOŠKI ATLAS SLOVENIJE

GEOLOGICAL ATLAS OF SLOVENIA



The Geological Atlas of Slovenia was published by the Geological Survey of Slovenia to celebrate the 70th anniversary of its existence. It is edited by Matevž Novak and Nina Rman. As much as 44 authors and several other experienced colleagues from 10 major Slovenian institutions dealing with geoscientific data contributed to it.



1.2

GEOLOŠKA KARTA

Geološka karta je celovita grafična sinteza vseh podatkov, opažanj in meritev, ki opisujejo geološko sestavo določenega ozemlja. Zasnova je lahko različna, v tem primeru je litostratigrafska in prikazuje površinsko razširjenost t. i. litostratigrafskih enot in večjih tektonskih struktur. Litostratigrafska enota je opredeljena s kamninsko sestavo in starostjo. Posamezna enota na karti vključuje kamnine in/ali sedimente, ki so nastali v določenem geološkem obdobju in tedanjem okolju.

Na geološki karti večjega merila so z znaki označene tudi lege kamninskih plasti in tektonskih struktur v prostoru ter njihovi medsebojni odnosi. Taka karta je osnova za tridimenzionalni model geološke zgradbe zgornjega dela zemeljske skorje, ker iz nje lahko sklepamo na zgradbo pod površjem.

Geološka karta Slovenije v merilu 1 : 1.000.000 je rezultat dolgoletnih terenskih in laboratorijskih raziskav, dopolnjenih z globinskimi podatki iz vrtin in podatki geofizikalnih raziskav. Podlagi zanjo sta Osnovna geološka karta Slovenije v merilu 1 : 100.000 in Geološka karta Slovenije v merilu 1 : 250.000.

Kamnine, ki jih dandanes opazujemo na površju Slovenije, so nastajale od starejšega paleozoika (domnevno tudi predkambrija) do kvartarja oziroma sedanjosti. Prevladujejo kenozojske kamnine in sedimenti s 44 % in mezozojske kamnine s 45 % (med njimi triasne s kar 23 %) deležem. Najstarejši so metamorfni kompleksi na Pohorju, Kobanskem in Strojni. Magmatske kamnine (globočnine) so na površju samo v t. i. Periadriatski coni in na Pohorju, medtem ko najdemo vulkanske in vulkanoklastične kamnine le v majhnih krpah razpršene po Sloveniji.

V več tektonskih fazah je bilo ozemlje Slovenije presekan s številnimi prelomi. Med regionalnimi prelomi so poleg Periadriatskega preloma in nekaterih večjih narivov strukturno pomembni še nekateri prelomi v smeri SZ–JV, ki jih pogosto imenujemo s skupnim imenom dinarski prelomi. Ti so posebno pomembni za razumevanje sedanjih seizmotektonskih lastnosti ozemlja.

GEOLOGICAL MAP

A geological map is a full graphic synthesis of all information, observation and measurements that relate to the geological make-up of a certain territory. Basic concepts, however, may vary. In this case, the map is lithostratigraphic, featuring the surficial distribution of lithostratigraphic units where certain key tectonic structures are also presented. A lithostratigraphic unit is defined by its lithological composition and age. Consequently, each unit on this map comprises rocks and/or sediments that formed in a certain geological period and in a certain environment.

Larger scale geological maps also feature the geometry of strata and tectonic structures and their relationship. For an experienced reader this is already a path to understanding the sub-surface, i.e. a 3D representation of the geological make-up of the upper part of the Earth's crust.

The Geological Map of Slovenia at scale 1:1,000,000 is the result of long-term field mapping and laboratory analyses, all supported by drillings and geophysical surveying. It is primarily based on The Basic Geological Map of Slovenia at scale 1:100,000 and its successor The Geological Map of Slovenia at scale 1:250,000.

Slovenian rocks formed between the Early Paleozoic (presumably even since the Precambrian) and the Quaternary, up to the present. Cenozoic and Mesozoic rocks comprise the largest part of Slovenia's surface, at 44% and 45% respectively; of the latter as much as 23% are of Triassic age.

The oldest rocks in Slovenia belong to the so-called metamorphic complex of Pohorje, Kobansko and Strojna. Plutonic rocks crop out only within the so-called Periadriatic zone and at Pohorje, while we find volcanic and volcanoclastic rocks scattered around Slovenia in small patches.

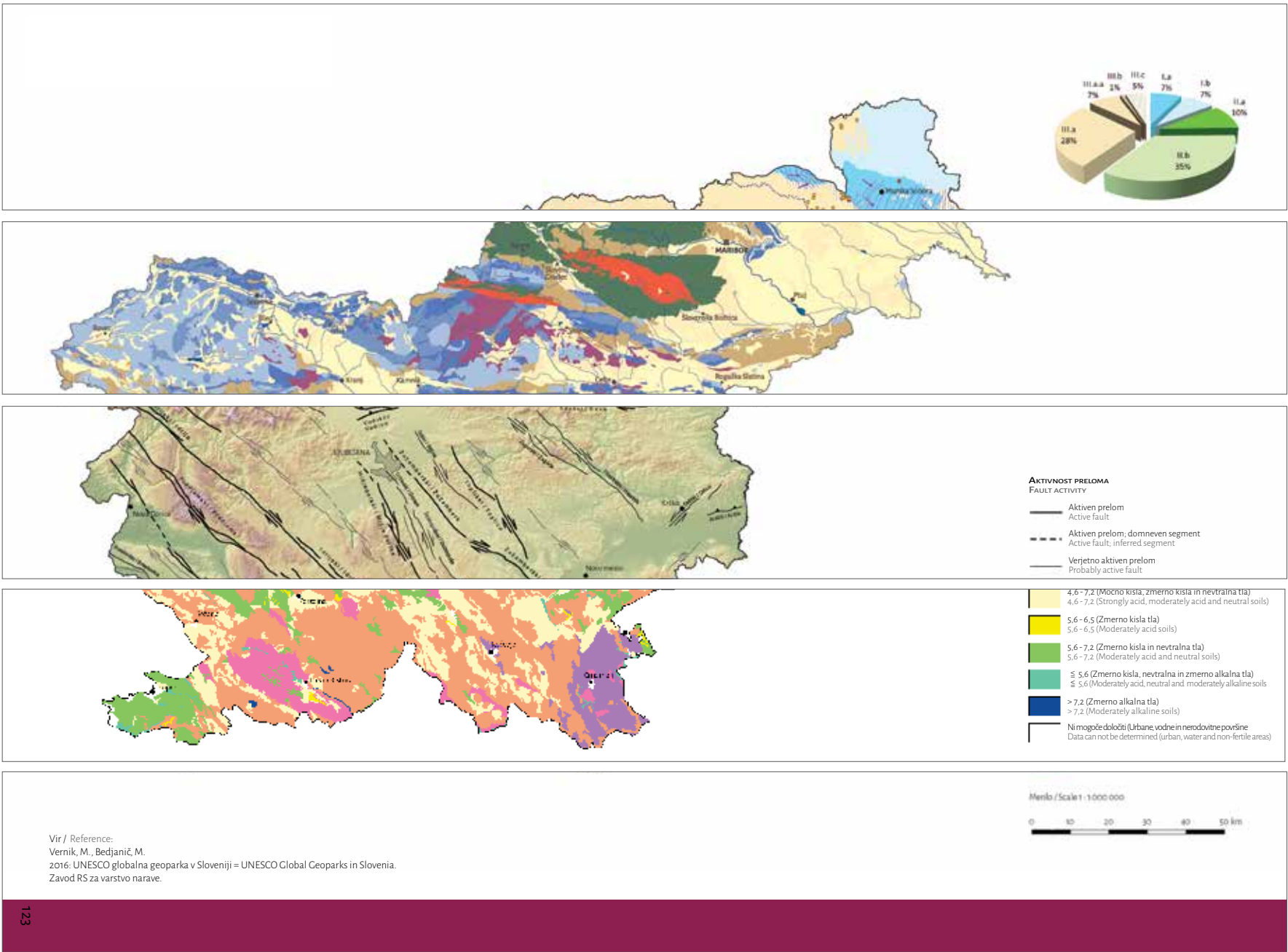
Slovenian territory has been faulted, folded and thrust throughout its dynamic geological history. In addition to today's most prominent tectonic feature—the Periadriatic fault—some regional thrust faults and faults are also important. Among numerous faults those oriented in the NW-SE direction (also called the Dinaric faults) are well documented and represent the key features of the present seismicity in the area.

DODATNI VIRI / ADDITIONAL REFERENCES:

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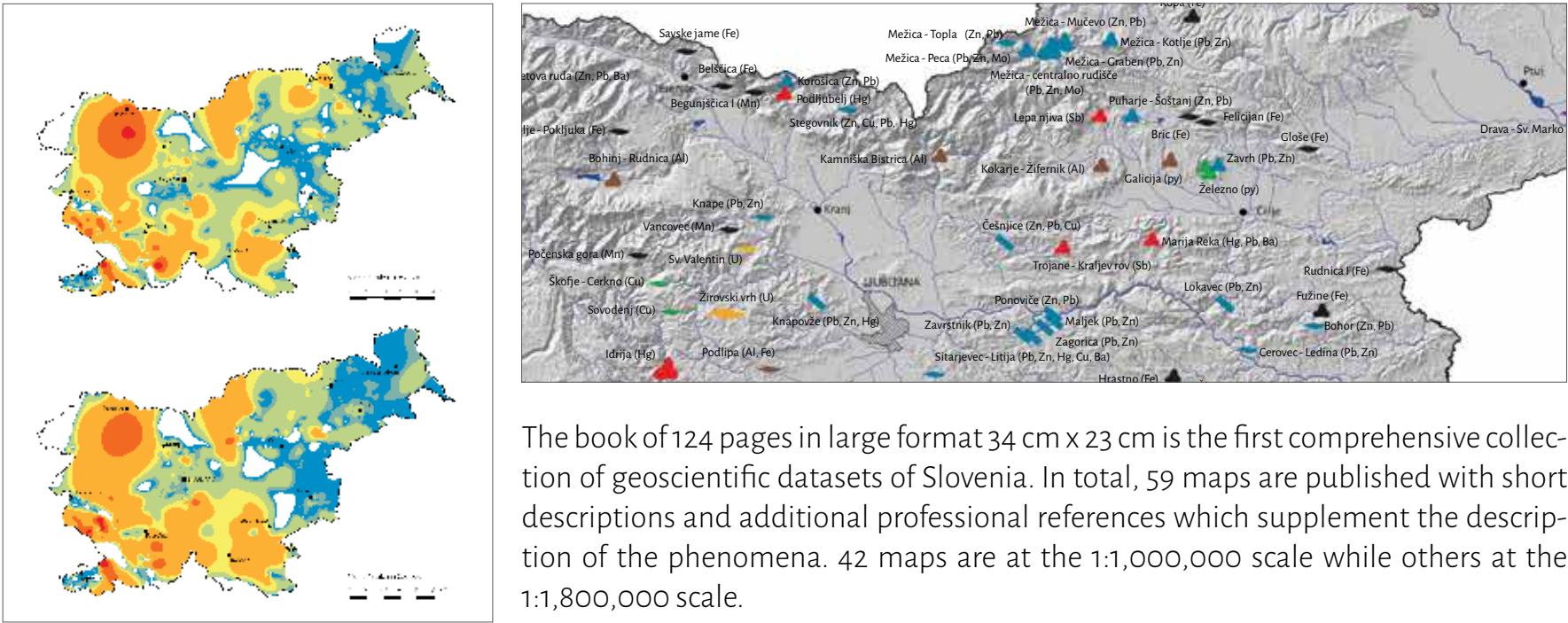
UPORABA

- Osnovna
- Podlaga
- oblik
- od geo
- Sleden
- energe
- njihove
- Osnova
- karte p
- Podlaga
- storsko
- upravlj



APLIKACIJE

- Basic in
- Basis
- process
- biosph
- phere
- Basis f
- use of r
- Basis t
- evaluati
- Basis fo
- planning
- geme



The book of 124 pages in large format 34 cm x 23 cm is the first comprehensive collection of geoscientific datasets of Slovenia. In total, 59 maps are published with short descriptions and additional professional references which supplement the description of the phenomena. 42 maps are at the 1:1,000,000 scale while others at the 1:1,800,000 scale.