FEDERAL STATE BUDGETARY ENTERPRISE
"ALL-RUSSIAN GEOLOGICAL RESEARCH INSTITUTE
OF A. P. KARPINSKY"

APPROVED
Editor-in-Chief of the scholarly journal
Regional Geology and Metallogeny

_____ M. A. Tkachenko
(signature) (initials, last name)

17 February 2025

GUIDE FOR AUTHORS

of the scholarly journal

REGIONAL GEOLOGY AND METALLOGENY

("Regional'naya Geologiya i Metallogeniya" / "Regional Geology and Metallogeny")

ISSN 0869-7892 (Print)

https://reggeomet.elpub.ru/

Saint Petersburg

2025

GUIDE FOR AUTHORS

The journal *Regional Geology and Metallogeny* accepts manuscripts of research articles **in the Russian or English language** (thereinafter — manuscripts), which provide findings on regional geological study of subsoil in the Russian Federation and neighboring countries, establishing patterns in mineral deposits distribution and data from mineragenic, stratigraphic, paleontological, geochemical, and other specialized studies.

The submitted manuscript should be an original paper previously not published in any printed and (or) electronic edition. According to *The Rules for Using the Antiplagiat System for Detecting Textual Borrowings in Research Papers* (Appendix 1), the manuscript originality should be minimum 90 percent.

The manuscript should include references to the cited researchers and published sources of the borrowed content; there should be obtained consent to use the findings, facts, and other borrowed data that the manuscript (co)authors do not own the rights to.

The manuscripts should not contain data to be prohibited for publication, as per the Russian Federation legislative acts in force; consequently, their publication and distribution will not disclose sensitive (classified) information, including official, business secrets.

The manuscript data should correspond to ethical research principles (refer to the document *Ethical Research Principles* dated 17.02.2025). The manuscript subject area should match the journal sections: *Regional Geology* and *Metallogeny*.

The manuscript prepared as the requirements for structuring and formatting manuscripts in the journal (Appendix 2) suggest is accompanied with the expert report on open access publication (Appendix 3).

The manuscript structure should also have the title page data in the Russian and English languages, body text, References list in Russian and English, additional page in Russian and English.

All the manuscripts submitted to the journal's editorial office undergo a peer review process in order to provide an objective expert assessment (refer to the document *Peer Review Policy of the Journal Regional Geology and Metallogeny* dated 17.02.2025). The expert assessment involves the following stages: formal assessment of the manuscript content, its peer review, and final assessment.

The authors should recognize the following in order to ensure the positive expert assessment and further manuscript publication:

– research rationale (correspondence of the manuscript content to modern achievements in the addressed field of study);

– novelty and scientific merit of the obtained findings (new contribution to the field of study; exploring new subjects, problems, phenomena; determination of previously unknown properties, patterns, connections);

– data description (correspondence of the manuscript title to the content, logics and consistency, volume and structure, research methods, statistical data processing);

– data presentation (scientific style, terminology; informative value of figures and tables; quality of figures, diagrams, and charts);

– science sources citation (quality and completeness of the References list, relevance of references to the sources, modern and foreign sources);

– informative value of the abstract (including the research topic, aim, methods, findings, and inferences; novelty, scientific merit, and practical significance) and keywords (matching the research topic and covering the subject and terminology area).

The authors sign a license agreement after all the expert assessment stages have been completed (Appendix 4).

Appendix 1

RULES FOR USING THE *ANTIPLAGIAT* SYSTEM FOR DETECTING TEXTUAL BORROWINGS IN RESEARCH PAPERS IN THE KARPINSKY INSTITUTE PUBLISHING HOUSE

1. Terms and definitions

The Rules employ the following terms and definitions.

Author (Research paper author)[1] is a physical entity who makes a creative work of science. The author is the entity whose name is recognized as an author on the original or copy paper, or any other way, as per clause 1, article 1,300 of the Civil Code of the Russian Federation unless the contrary is proved.

Coauthorship[2] refers to the citizens' collaborative creative work. The citizens, who have collaboratively made a creative work of science, are identified as authors regardless of whether the work is a comprehensive whole or comprises several independent parts.

Antiplagiat relates to a licensed software system for detecting textual borrowings in research papers (thereinafter — software system).

Document is a general name for manuscripts to check in order to search for textual borrowings.

Text originality indicates a ratio of the checked text fragments unidentified in any checked source to the whole document.

Borrowing denotes a ratio of all found textual similarities in the checked document, excluding those that the software system has identified as citations, to the whole document.

Citation is defined as a ratio of non-author textual similarities, which the software system has recognized as correct, to the whole document. These may be National State Standard formatted citations, clichés, text fragments from the regulatory documentation collections.

Text recycling is a citation variant when the author uses their previous research papers, with the bulk of fragments mentioned.

Justified text recycling involves the author citing their own published research papers, which description of new research findings validates.

Technical borrowing in the report means using names of establishments, national and local authorities; links to regulatory acts; law texts; references lists; repetitions, including frequently used clichés and law terms; text citations, document excerpts to analyze, etc.

---

[1] Civil Code of the Russian Federation. Article 1,257. Author of the work
[2] Civil Code of the Russian Federation. Article 1,258. Coauthorship

System administrator suggests the software system user with the relevant account, who coordinates document checks in order to search for textual borrowings inside Karpinsky Institute.

Expert implies the software system user with the relevant account, who checks documents in order to search for textual borrowings inside Karpinsky Institute.

User is a Karpinsky Institute employee who has acquired an account and access to the software system as appropriate in order to use it for checking documents and exercising other functions, as the access level and role in the software system require.

2. General provisions

2.1. These Rules are a document of the formal system to check the content of research article manuscripts submitted to the editorial office of the scholarly journal *Regional Geology and Metallogeny* (thereinafter — manuscripts), which determines the *Antiplagiat* software system operating procedures (thereinafter — software system) in the Publishing House of the Federal State Budgetary Enterprise "All-Russian Geological Research Institute of A. P. Karpinsky" (thereinafter — Karpinsky Institute Publishing House) in order to identify text originality.

2.2. The Rules establish procedures to search for textual borrowings in manuscripts.

2.3. The software system administers search for textual borrowings in manuscripts.

2.4. The search for textual borrowings in manuscripts allows:

– copyright protecting research papers, including those written with coauthors;

– complying with ethical research principles;

– ensuring that Karpinsky Institute Publishing House prints high quality research papers.

2.5. The Editor-in-Chief of the scholarly journal *Regional Geology and Metallogeny* approves the Rules and their amendments.

3. Legal regulation

The Rules are developed according to the following regulatory documents:

– Civil Code of the Russian Federation, Part 4 dated 18.12.2006, Federal Act no. 230 (revised 22.07.2024);

– Criminal Code of the Russian Federation dated 13.06.1996, Federal Act no. 63, Article 146 (revised 09.11.2024);

– Administrative Violations Code of the Russian Federation dated 30.12.2001, Federal Act no. 195, Article 7.12 (revised 29.10.2024, amended 12.11.2024);

– Government Resolution of the Russian Federation dated 24.09.2013, no. 842 (revised 16.10.2024) *PhD and Doctoral Degree Conferral Procedure* (including *PhD and Doctoral Degree Conferral Regulation*);

– Editorial Office Charter of the scholarly journal *Regional Geology and Metallogeny*;

– Document *Ethical Research Principles* dated 17.02.2025, which the editorial office of the scholarly journal *Regional Geology and Metallogeny* developed;

– Document *Peer Review Policy of the scholarly journal Regional Geology and Metallogeny* dated 17.02.2025, which the editorial office of the scholarly journal *Regional Geology and Metallogeny* developed.

4. The *Antiplagiat* system operating procedures

4.1. The Centre of Informational Technologies on Regional Geology and Metallogeny of Karpinsky Institute (thereinafter — CIT RGM) provides technical support and administers the software system.

4.2. CIT RGM as a system administrator facilitates:

– creating and editing the users' accounts;

– distributing passwords to the users;

– collecting and analyzing statistics of using the software system;

– controlling unauthorized checks;

– deleting and banning accounts;

– instructing the users to work with the software system.

4.3. Only Karpinsky Institute Publishing House employees are granted access to the software system at the subdivision head's request, which the Editor-in-Chief of the scholarly journal *Regional Geology and Metallogeny* approves.

4.4. It is forbidden to share the password with the third party; the software system users take disciplinary action against sharing the account password.

5. Procedure to check research papers for borrowings

5.1. Manuscripts refer to the documents to be checked in the software system.

5.2. Authors should prepare their manuscripts individually. All the borrowings from printed or electronic sources should have references to the researchers and (or) source; direct citation requires quotation marks. The citation amount should correspond to the citation objectives and the individual research paper or its parts should not be questioned.

5.3. The authors are prohibited to make amendments in the manuscript file in order to bypass the software system checking algorithms (for instance, replacing some Cyrillic letters for letters of other alphabets, using hidden characters, inserting irrelevant text, etc.).

5.4. It is not allowed to submit the text that generative artificial intelligence has created. Nevertheless, the editorial office of the scholarly journal *Regional Geology and Metallogeny*

reserves the right to examine the volume of the generated text from the manuscript and its rewriting quality. The selected reviewer provides a final decision whether to include such a text in the manuscript.

5.5. The manuscript should be an original research paper not published in another printed and (or) electronic edition. The text originality should be minimum 90 percent.

6. Procedure to search for textual borrowings in manuscripts

6.1. Manuscripts are regarded in the Rules as research papers, which the authors have prepared individually, to be published as research articles. Research papers should be word processed and can include graphics (figures, diagrams, charts) and (or) tables.

6.2. The editorial office of the scholarly journal *Regional Geology and Metallogeny* sets requirements for structuring and formatting manuscripts consistent with the current National State Standards: R 7.0.7 Articles in journals and collections. Publishing presentation, R 7.0.5 Bibliographic reference. General requirements and rules.

6.3. It is not allowed to use the borrowed content without references to researchers and (or) relevant source. If the author uses ideas or developments from the collaboratively prepared research paper, which the other coauthors own, the author should inform about this fact in the manuscript.

6.4. The authors' previously published investigations can become a citation source only for the purpose of justified text recycling. Their own citations should be formatted as citation rules require, including a source reference.

6.5. There should be an electronic file with the manuscript prepared according to the relevant requirements for structuring and formatting.

6.6. The Karpinsky Institute Publishing House employee in charge checks manuscripts for borrowings in the expert account of the software system.

6.7. After the report being made in the software system the employee in charge evaluates the appropriateness and validity of the borrowings in the manuscript.

6.8. The full report generated by the software system, which includes the volume and source of borrowings, is stored in the editorial office of the scholarly journal *Regional Geology and Metallogeny* for three years.

6.9. If the text originality of the manuscript is under 90 percent, it will be sent to the authors for revision or there will be an opinion on manuscript rejection.

6.10. The authors are informed about the formal check results of the manuscript content. They receive a statement of the manuscript text check results; the full report generated by the software system can accompany it.

6.11. A textual borrowing from one source, which is maximum 10 percent, is appropriate if such a citation is justified (using statistical data, providing examples for the source, etc.). Technical borrowing is also acceptable.

6.12. The same manuscript cannot be submitted over three times.

6.13. If the authors have to revise their manuscript, they should submit its revised version to recheck for textual borrowings within two weeks after receiving a statement of the manuscript text check results.

6.14. The editorial board and (or) editorial council of the scholarly journal *Regional Geology and Metallogeny* examine arguable check results in the software system.

Appendix 2

REQUIREMENTS FOR STRUCTURING AND FORMATTING MANUSCRIPTS IN THE SCHOLARLY JOURNAL *REGIONAL GEOLOGY AND METALLOGENY*

When submitting manuscripts to the editorial office of the scholarly journal, the author(s) should follow the Guide for Authors, Peer Review Policy, and Ethical Research Principles available on the website of the scholarly journal *Regional Geology and Metallogeny* (https://reggeomet.elpub.ru/).

A manuscript text in the Russian or English language must be 12-point Arial, one-and-a-half-spaced, with the first line of each paragraph indented 1.25 cm from the left margin, fully justified, 20 mm margins; including page numbers.

The manuscript structure (in one text document *.doc / *.docx) includes the title page in the Russian and English languages, body text in Russian and English, references cited in Russian and English, authors' additional information. The manuscript file is entitled as "The first author's last name. Text".

1. The title page in the Russian language, with the entries placed in separate lines:

1.1. *Journal section*: РЕГИОНАЛЬНАЯ ГЕОЛОГИЯ or МЕТАЛЛОГЕНИЯ.

1.2. *Article type* (for example, «научная статья» or «рецензия на статью»).

1.3. *UDC identifier*.

1.4. *Article title* that briefly and accurately reflects its content (capitalize the initial letter of the first word, lowercase the other words).

1.5. *Author's (authors') initials and last name*.

1.6. *Affiliation, city and country* in full (without the institution's type of legal entity).

1.7. *Corresponding author's e-mail address* (without the word "e-mail").

1.8. *Abstract* of 150–250 words, which includes the research topic, aim, methods, findings, and inferences; it should reflect the novelty, scientific merit, and practical significance.

1.9. *5–7 keywords* and (or) phrases (separated by commas), which match the research topic and cover the subject and terminology area.

1.10. *Acknowledgments* to the organizations, research advisor, and other people assisting in preparing the research article (if available); grant information, *funding* the research article preparation and publication (if available).

1.11. *Bibliographic entry for citation.*

2. The title page in the English language, which corresponds to item 1.

For *the journal sections* use the words "REGIONAL GEOLOGY" or "METALLOGENY"; for the examples of *the article types* — "original article" or "review article".

The author's (authors') initials and last name should be transliterated into the Latin alphabet; the BGN system is normally used.

Refer to the example of the title page presentation in Appendix 2.1.

3. Body text:

3.1. *The research article is maximum* 16,000–40,000 characters with spaces, including graphics, tables, and references cited.

3.2. Each research article contains *the sections*: Introduction, Material and Methods, Results, Discussion, and Conclusion; the body text division into other topical sections and subsections is acceptable.

3.3. *The headings* in the research article are presented in separate lines.

3.4. *The units of measure* correspond to the International System of Units (metric), and the abbreviations (excluding conventional ones) are deciphered in the text.

3.5. Simple mathematical or chemical *symbols and formulae* (in separate lines) are individually numbered and have links in the text, the complex ones are supplied with the editor Microsoft Equation.

3.6. The manuscript text contains *graphics* (figures, diagrams, charts), which are individually numbered and have links in the text (for example, "(fig. 1)" … "(fig. 2")).

3.7. *The resolution* of photographs and half-tone illustrations is minimum 300 dpi; that of vector graphics is 600 dpi.

3.8. *The colored graphics* are in the four-color (CMYK) mode; the black font and lines are 100 % Black.

3.9. *Maintaining the object scale and proportions* requires the graphics of 8 or 16.9 cm wide, maximum 24.9 cm high; *the size* of Arial / Arial Narrow font letters and digits in the graphics is minimum 2 mm, line width is minimum 0.2 mm; all the chart axes have labels and units of measure.

3.10. *The original copy* of all the graphics (figure, diagram, chart) and tables are *additionally* submitted in separate files. The graphics are saved as *.cdr (Corel Draw 15.0 or earlier), *.pdf, *.eps, *.tif or *.jpg (image quality — 12); tables and graphics captions are saved as *.doc, *.docx. Each file is entitled as "The first author's last name. Fig. 1", "The first author's last name. Tab. 1".

3.11. *The table size* is maximum 16.9 × 24.9 cm, 9-point font, single-spaced; use vertical lines to separate the table columns.

3.12. *The graphics captions* (for example, «Fig. No. Title») and *table headings,* their *sources* are in the Russian and English languages; the combined figures require one caption (for example, "Fig. 1, *a*", "Fig. 1, *b*"). The text on and captions for the graphics and tables has

letters of *the Latin*, not Cyrillic alphabet (for example, "a, b, c, d", not «а, б, в, г»). The original copies of the combined figures do not have letters of the Latin alphabet; the letters bottom right to the figure are found only in the body text.

The reviewers should receive a single file *.doc / *.docx or *.pdf, which includes the text, graphics, and tables.

Refer to the example of presenting the section headings, table, and figure in Appendix 2.2.

4. The references cited in the Russian language:

4.1. There are *10–30 science sources* arranged in order of citation; they include foreign ones if possible.

4.2. They are formatted as after-text bibliographic references, as given in the National State Standard R 7.0.5 Bibliographic reference. General requirements and rules.

4.3. *The source references* are placed in square brackets, which display the sequential number of the source(s) and the cited page if necessary (for example, [12; 37], [6, p. 149]).

5. The references cited in the English language, whose list corresponds to item 4 and is formatted as the journal requirements suggest.

Refer to the example of presenting the references cited in Appendix 2.3.

6. Additional page in the Russian language in separate lines:

6.1. *The author's (authors') additional information:* the author's (the authors') first, patronymic, and last names; degree (if available), academic rank (if available), position, full affiliation, office address (street, house number, locality, country, post index); identification numbers (if available): ORCID, Scopus Author ID, ResearcherID (Web of Science), RSCI SPIN-code; *the author's (authors') contact information*: contact telephone number, e-mail address.

6.2. Information about *each author's contribution.*

6.3. Non-existent or existent *conflict of interests* and some details.

7. Additional page in the English language, which corresponds to item 6.

Refer to the example of the additional page presentation in Appendix 2.4.

Appendix 2.1

Example of presenting the title page of the manuscript in the Russian and English languages

РЕГИОНАЛЬНАЯ ГЕОЛОГИЯ

Научная статья

УДК 550.42:546.027+550.93(470)

Программа систематических изотопно-геохимических и геохронологических исследований геологических комплексов территории России: методы и первые результаты 2022—2024 гг.

Г. А. Бабин[1]✉, А. Г. Пахалко[1], А. А. Соболева[2], А. Е. Цыбульская[1], М. Э. Кутырева[1], Г. А. Олейникова[1], В. Б. Хубанов[3], С. А. Сергеев[1]

[1]Всероссийский научно-исследовательский геологический институт им. А. П. Карпинского, Санкт-Петербург, Россия, Gennadiy_Babin@karpinskyinstitute.ru✉

[2]Институт геологии имени академика Н. П. Юшкина Коми научного центра Уральского отделения Российской академии наук, Сыктывкар, Россия

[3]Геологический институт им. Н. Л. Добрецова Сибирского Отделения Российской академии наук, Улан-Удэ, Россия; Институт физики Земли им. О. Ю. Шмидта Российской академии наук, Москва, Россия

Аннотация. Статья посвящена описанию начатой в 2022 г. долговременной Программы Роснедра по реализации систематического геохронологического и изотопно-геохимического изучения геологических комплексов территории России. Основным исполнителем работ выступает Институт Карпинского. Имеющиеся в институте лабораторно-аналитические возможности позволяют выполнять практически любые анализы горных пород, руд и минералов. Программой предусматривается изотопное датирование, изучение петрографического, петрогеохимического и изотопно-геохимического составов магматических, метаморфических и осадочных пород. На первом этапе, в 2022–2024 гг. датирование с сопутствующим комплексом аналитических исследований проведено в 500 опорных пунктах, расположенных в горно-складчатых регионах России. Полученные результаты оперативно используются при уточнении региональных схем корреляции магматизма и метаморфизма, составлении новых и обновлении существующих геологических карт, во многих случаях способствовали значительному прогрессу в части реконструкции металлогенической эволюции и геологической истории развития регионов.

В качестве примера приведены результаты геохронологических исследований интрузивных пород Кузнецкого Алатау и зеленосланцевого комплекса Западного Саяна в Алтае-Саянской складчатой области. Итоговыми документами работ являются Паспорта, которые суммируют результаты петрологических, изотопно-геохимических и геохронологических исследований по каждому изученному объекту в рамках Программы. В дополнительных материалах к статье помещены примеры Паспортов для интрузивного, метаморфического и осадочного комплексов.

Ключевые слова: Программа Роснедра, изотопное датирование, интрузивные породы, геологические карты, Кузнецкий Алатау, Западные Саяны, Алтае-Саянская складчатая система

Благодарности[3]: работы выполнены в рамках Государственного задания Федерального агентства по недропользованию № 049-00018-22-01.

Для цитирования: Программа систематических изотопно-геохимических и геохронологических исследований геологических комплексов территории России: методы и первые результаты 2022–2024 гг. / Г. А. Бабин [и др.] // Региональная геология и металлогения. 2024. Т. 31, № 4. С. 59–72. https://doi.org/10.52349/0869-7892_2024_100_59-72

REGIONAL GEOLOGY

Original article

UDC 550.42:546.027+550.93(470)

Program of systematic isotope, geochemical, and geochronological studies of geological complexes in Russia: Methods and initial results of 2022—2024

G. A. Babin[1]✉, A. G. Pakhalko[1], A. A. Soboleva[2], A. E. Tsybulskaya[1], M. E. Kutyreva[1], G. A. Oleynikova[1], V. B. Khubanov[3], S. A. Sergeev[1]

[1]All-Russian Geological Research Institute of A. P. Karpinsky, Saint Petersburg, Russia, Gennadiy_Babin@karpinskyinstitute.ru✉

[2]Institute of Geology of the Komi Science Center of the Ural Branch of the Russian Academy of Sciences, Syktyvkar, Russia

[3]The other examples of acknowledgments are as follows: «исследование выполнено при финансовой поддержке Российского научного фонда в рамках проекта № … «Название»; авторы выражают благодарность рецензентам за анализ статьи и рекомендации по повышению ее качества.»

[3]Geological Institute named after Academician N. L. Dobretsov, Siberian Branch of the Russian Academy of Sciences, Ulan-Ude, Russia; Schmidt Institute of Physics of the Earth of the Russian Academy of Sciences, Moscow, Russia

Abstract. The paper addresses Rosnedra's long-term program for the systematic geochronological, isotope, and geochemical study of geological complexes in Russia, which began in 2022. Karpinsky Institute is the main works contractor. The institute's laboratory and analytical capabilities potentiate almost any analysis of rocks, ores, and minerals. The program involves isotope dating, studying the petrographic, petrogeochemical, isotope, and geochemical compositions of igneous, metamorphic, and sedimentary rocks. The first stage of 2022–2024 covered dating as well as a set of analytical studies in 500 base stations in fold-belt regions of Russia. The obtained findings contribute to promptly specifying regional correlation diagrams for magmatism and metamorphism, creating new geological maps, and updating current ones; they frequently led to significant progress in reconstructing the metallogenic evolution and geological history of regional development. The geochronological results of studying the intrusive rocks of the Kuznetsk Alatau and greenschist complex of the Western Sayan in the Altai-Sayan Fold Area serve as an example. The Passports finalize the work by summarizing the results of petrological, isotope, geochemical, and geochronological studies for each explored object in the program. The Supplementary Data section contains examples of Passports for intrusive, metamorphic, and sedimentary complexes.

Keywords: Rosnedra's program, isotope dating, intrusive rocks, geological maps, Kuznetsk Alatau, Western Sayan, Altai-Sayan Fold Area

Acknowledgments: the Federal Subsoil Resources Management Agency supported the research (state geological study, no. 049-00018-22-01).

For citation: Program of systematic isotope, geochemical, and geochronological studies of geological complexes in Russia: Methods and initial results of 2022–2024 / G. A. Babin [et al.]. *Regional Geology and Metallogeny.* 2024; 31 (4): 59–72. https://doi.org/10.52349/0869-7892_2024_100_59-72.

Appendix 2.2

Example of the body text presentation

Introduction

...

Material and Methods

...

Results

...

The table presentation

... The map analysis allowed distributing over 200 prospective porphyry mineralization sites of the Russian Federation in the topographic sheets (scale of 1 : 200,000) in order to organize the relevant additional site exploration, including 179 items (50 — first order and 129 — second order) in the Far Eastern federal district [9] (table 1).

Таблица 1

Распределение по федеральным округам Российской Федерации наиболее перспективных для обнаружения порфировой рудной минерализации номенклатурных листов масштаба 1 : 200 000 с целью постановки в их пределах работ по ГДП-200/2

Table 1. Topographic sheets distribution (scale of 1 : 200,000) by federal districts of the Russian Federation, with the most prospective porphyry mineralization sites included, in order to organize the relevant additional site exploration (scale of 1 : 200,000, second edition)

Federal district	Nature reserves and their coverage excluded	Nature reserves and their coverage included	Prospective sites	
			1st order	2nd order
Far Eastern (without the Republic of Sakha (Yakutia))	279	179	50	129
Far Eastern (the Republic of Sakha (Yakutia))	46	32	9	23
Volga	7	0	0	0
Northwestern	1	0	0	0
Siberian	102	44	23	21
Ural	28	1	1	0
Total in Russia	463	256	83	173

Источник: по [9]

Source: from [9]

...

The figure presentation

… Figure 3 displays interpretation results of the complex airborne geophysical survey of the Popigai site in 2022 on the map, scale of 1 : 50,000, which fully reflects its geological composition, including the structural settings, fault tectonics, compositional complexes, and metasomatic zoning.

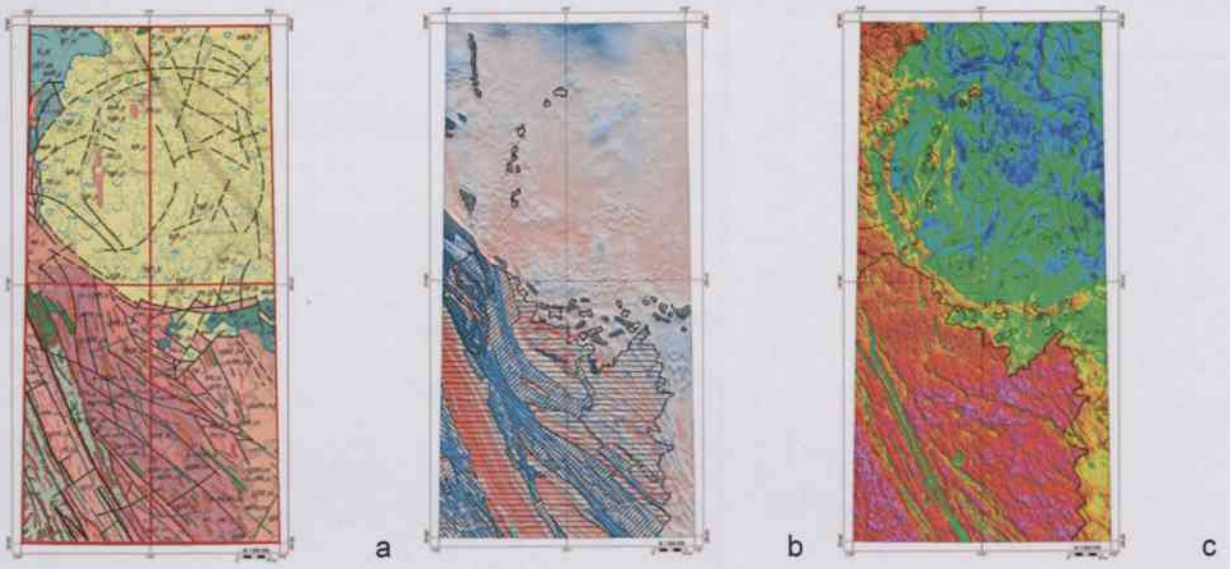

Рис. 3. Результаты картирования по данным КАГС-50 на Попигайской площади (R-49-III, IV, IX, X), 2022 г.

a — геологическая карта ГК-1000/3; отражение структур фундамента Сибирской платформы: *b* — в аномальном магнитном поле, *c* — в поле эффективной удельной электропроводности на частоте 2080 Гц

Источник: по материалам отчета (Окончательный геологический отчет о результатах работ за 2023 г. по объекту «Комплексная аэрогеофизическая (аэромагнитная, аэроэлектроразведочная, аэрогамма-спектрометрическая) съемка масштаба 1 : 50 000 и гиперспектральная съемка листов R-49-III, IV, IX, X (Попигайская площадь)»

Fig. 3. Mapping results from the complex airborne geophysical survey of the Popigai site, scale of 1 : 50,000 (R-49-III, IV, IX, X), 2022

a — State Geological Map, scale of 1 : 1,000,000 (third generation), presentation of the Siberian Platform basement structures; *b* — in an anomalous magnetic field, *c* — in an effective electrical conductivity field at a frequency of 2,080 Hz

Source: adapted from the report (Final geological report 2023, the object "Complex airborne geophysical (aeromagnetic, airborne electromagnetic, airborne gamma-ray spectrometer) survey, scale of 1 : 50,000, and hyperspectral survey of sheets R-49-III, IV, IX, X (Popigai site)"

...

Discussion

...

Conclusion

...

Example of presenting the references cited in the Russian and English languages

Список источников

1. **Книга (на русском языке):** Моисеенко В. Г. Особенности формирования полигенных россыпей золота и методы их оценки. Хабаровск : АмурКНИИ, 1997. 103 с.

2. **Книга (на иностранном языке):** Vanhanen E. Geology, mineralogy and geochemistry of the Fe-Co-Au (U) deposits in the Paleoproterozoic Kuusamo Schist Belt, northeastern Finland. Espoo, Finland : Geological Survey of Finland, 2001. 283 p.

3. **Объяснительная записка (на русском языке):** Государственная геологическая карта Российской Федерации. Масштаб 1 : 200 000. Лист N-53-XXVI. Объяснительная записка / С. Г. Агафоненко [и др.][4]. СПб. : ВСЕГЕИ, 2015. 98 с.

4. **Объяснительная записка (на иностранном языке):** Dawes P. R. Explanatory notes to the Geological map of Greenland, 1 : 500,000, Humboldt Gletscher, Sheet 6. Copenhagen, Denmark : GEUS, 2004. 48 p. https://doi.org/10.34194/geusm.v1.4615[5].

5. **Глава из книги (на русском языке):** Дунаев Н. Н. Морфоструктура Берингова пролива // Геология и геоморфология шельфов и материковых склонов / отв. ред. М. Н. Алексеев. М. : Наука, 1985. С. 77–85.

6. **Глава из книги (на иностранном языке):** Williams I. S. U-Th-Pb geochronology by ion microprobe // Applications of microanalytical techniques to understanding mineralizing processes / Eds. M. A. McKibben, W. C. Shanks, III, W. I. Ridley. Littleton, US : Society of Economic Geologists, 1997. P. 1–35. https://doi.org/10.5382/Rev.07.01.

7. **Статья из сериального издания (на русском языке):** Богданов Ю. Б. Типы разрезов нижнего протерозоя Карелии и их сопоставление // Проблемы геологии докембрия Балтийского щита и покрова Русской платформы : тр. ВСЕГЕИ. Т. 175. Л., 1971. С. 133–152.

8. **Статья из сериального издания (на иностранном языке):** Everett A. G. Geomorphic process data needs for environmental management // Applied

---

[4] Present only the first author if there are four or more authors, write [и др.] for the others (in the Russian language source), [et al.] (in the foreign language source).

[5] Indicate DOI (Digital Object Identifier) as https://doi.org/....

Geomorphology : "Binghamton" Geomorphology Symposium / Eds. R. G. Craig, J. L. Craft. No. 11. London : George Allen & Unwin Ltd, 1982. P. 1–14.

9. **Статья из журнала (на русском языке):** Степанов В. А. О золотоносности сурьмяного и ртутного оруденения Приамурья // Руды и металлы. 2023. № 1. С. 40–51. https://doi.org/10.47765/0869-5997-2023-10004.

10. **Статья из журнала (на иностранном языке):** Mireku L. K., Stanley C. R. Lithogeochemistry and hydrothermal alteration at the Halfmile Lake South Deep Zone, a volcanic-hosted massive sulfide deposit, Bathurst mining camp, New Brunswick // Exploration and Mining Geology. 2006. Vol. 15, nos. 3–4. P. 177–199. https://doi.org/10.2113/gsemg.15.3-4.177.

11. **Статья из сборника материалов конференций (на русском языке):** Кислый вулканизм конечной фазы надсубдукционного и главной — постсубдукционного окраинно-континентально-рифтогенного геодинамических этапов в Восточном Сихотэ-Алине: критерии сходства и различия / В. Ф. Пипко [и др.] // Геологические процессы в обстановках субдукции, коллизии и скольжения литосферных плит : материалы V всерос. конф. с междунар. участием. Владивосток : Изд-во Дальневост. федерал. ун-та, 2021. С. 122–126. https://doi.org/10.24866/7444-5100-4.

12. **Статья из сборника материалов конференций (на иностранном языке):** Kumar A., Ghosh G. Effect of R factor on the seismic vulnerability of a L-shaped RC frame building // Proc. of the 2024 11th Intern. Conf. on Geological and Civil Engineering. Cham, Switzerland : Springer, 2024. P. 83–93. https://doi.org/10.1007/978-3-031-68624-5_7.

13. **Электронный источник (на русском языке):** Александр Петрович Карпинский. 26.12.1846 (7.01.47)–15.07.1936 // Всероссийский научно-исследовательский геологический институт им. А. П. Карпинского. URL: https://karpinskyinstitute.ru/ru/about/history/karpinsky.php (дата обращения: 17.10.2024).

14. **Электронный источник (на иностранном языке):** Follin S. Bedrock hydrogeology Forsmark. Site descriptive modelling, SDM-Site Forsmark. Report R-08-95. Dec. 2008. URL: https://www.skb.se/publication/1877175/R-08-95.pdf (дата обращения: 10.10.2024).

References

1. **Book (in the Russian language):** Moiseenko V. G. Specifics of forming polygenic gold deposits and methods of their assessment. Khabarovsk: Amur Complex Research Institute; 1997. 103 p. (In Russ.).

2. **Book (in the English language):** Vanhanen E. Geology, mineralogy and geochemistry of the Fe-Co-Au (U) deposits in the Paleoproterozoic Kuusamo Schist Belt, northeastern Finland. Espoo, Finland: Geological Survey of Finland; 2001. 283 p.

3. **Explanatory note (in the Russian language):** State Geological Map of the Russian Federation. Scale of 1 : 200,000. Sheet N-53-XXVI. Explanatory note / S. G. Agafonenko [et al.]. St. Petersburg: VSEGEI; 2015. 98 p. (In Russ.).

4. **Explanatory note (in the English language):** Dawes P. R. Explanatory notes to the Geological map of Greenland, 1 : 500,000, Humboldt Gletscher, Sheet 6. Copenhagen, Denmark: GEUS; 2004. 48 p. https://doi.org/10.34194/geusm.v1.4615.

5. **Book chapter (in the Russian language):** Dunaev N. N. Morphostructure of the Bering Strait. *Geology and geomorphology of shelves and continental slopes* / Ed. M. N. Alekseev. Moscow: Nauka; 1985. P. 77–85. (In Russ.).

6. **Book chapter (in the English language):** Williams I. S. U-Th-Pb geochronology by ion microprobe. *Applications of microanalytical techniques to understanding mineralizing processes* / Eds. M. A. McKibben, W. C. Shanks, III, W. I. Ridley. Littleton, US: Society of Economic Geologists; 1997. P. 1–35. https://doi.org/10.5382/Rev.07.01.

7. **Serial article (in the Russian language):** Bogdanov Yu. B. Types of sections of the Lower Proterozoic of Karelia and their comparison. *Problems of Precambrian geology of the Baltic Shield and the Russian platform cover: VSEGEI Proc.* Vol. 175. Leningrad; 1971. P. 133–152. (In Russ.).

8. **Serial article (in the English language):** Everett A. G. Geomorphic process data needs for environmental management. *Applied Geomorphology: "Binghamton" Geomorphology Symposium* / Eds. R. G. Craig, J. L. Craft. No. 11. London: George Allen & Unwin Ltd; 1982. P. 1–14.

9. **Journal article (in the Russian language):** Stepanov V. A. On the gold content in the antimony and mercury mineralization in Priamurye. *Ores and Metals.* 2023; (1): 40–51. https://doi.org/10.47765/0869-5997-2023-10004. (In Russ.).

10. **Journal article (in the English language):** Mireku L. K., Stanley C. R. Lithogeochemistry and hydrothermal alteration at the Halfmile Lake South Deep Zone, a volcanic-hosted massive sulfide deposit, Bathurst mining camp, New Brunswick.

Exploration and Mining Geology. 2006; 15 (3–4): 177–199. https://doi.org/10.2113/gsemg.15.3-4.177.

11. **Conference proceedings article (in the Russian language):** Acid volcanism of the final phase of supra-subduction and main — post-subduction marginal-continental-rift geodynamic stages in Eastern Sikhote-Alin: Criteria of similarity and difference / V. F. Pipko [et al.]. *Geological Processes in the Lithospheric Plates Subduction, Collision and Slide Environments: Proc. of the V Russ. Sci. Conf. with Foreign Participants.* Vladivostok: Far Eastern Federal Univ. Publ. House; 2021. P. 122–126. https://doi.org/10.24866/7444-5100-4. (In Russ.).

12. **Conference proceedings article (in the English language):** Kumar A., Ghosh G. Effect of R factor on the seismic vulnerability of a L-shaped RC frame building. *Proc. of the 2024 11th Intern. Conf. on Geological and Civil Engineering.* Cham, Switzerland: Springer; 2024. P. 83–93. https://doi.org/10.1007/978-3-031-68624-5_7.

13. **Electronic source (in the Russian language):** Aleksandr Petrovich Karpinsky. 26.12.1846 (7.01.47)–15.07.1936. All-Russian Geological Research Institute of A. P. Karpinksy. URL: https://karpinskyinstitute.ru/ru/about/history/karpinsky.php (accessed 17.10.2024). (In Russ.).

14. **Electronic source (in the English language):** Follin S. Bedrock hydrogeology Forsmark. Site descriptive modelling, SDM-Site Forsmark. Report R-08-95. Dec. 2008. URL: https://www.skb.se/publication/1877175/R-08-95.pdf (accessed 10.10.2024).

Appendix 2.4

Example of the additional page presentation in the Russian and English languages

Информация об авторах:

Василий Николаевич Петров – доктор геолого-минералогических наук, профессор, главный научный сотрудник, Всероссийский научно-исследовательский геологический институт им. А. П. Карпинского; Средний проспект, 74, Санкт-Петербург, Россия, 199106; https://orcid.org/0000-0001-0002-0003, Scopus Author ID 12345678901, ResearcherID J-1234-5678, SPIN-код РИНЦ 8765-4321; +7 (123) 456-78-90, 1234@mail.ru.

Антон Сергеевич Иваньчев – кандидат геолого-минералогических наук, доцент, младший научный сотрудник, Всероссийский научно-исследовательский геологический институт им. А. П. Карпинского; Средний проспект, 74, Санкт-Петербург, Россия, 199106; https://orcid.org/0000-0003-0002-0001, Scopus Author ID 98765432109, ResearcherID J-8765-4321, SPIN-код РИНЦ 1234-5678; +7 (123) 098-76-54, 4321@mail.ru.

Вклад авторов: В. Н. Петров – научное руководство, концепция исследования, развитие методологии, организация работ по проекту, написание исходного текста, итоговые выводы. А. С. Иваньчев – подготовка дополнительных материалов, доработка текста, итоговые выводы.

Конфликт интересов: авторы заявляют об отсутствии конфликта интересов.

Information about the authors:

Vasiliy N. Petrov – DSc (Geology and Mineralogy), Professor, Chief Researcher, All-Russian Geological Research Institute of A. P. Karpinsky; 74, Sredniy Prospekt, Saint Petersburg, Russia, 199106; https://orcid.org/0000-0001-0002-0003, Scopus Author ID 12345678901, ResearcherID J-1234-5678, RSCI SPIN-code 8765-4321; +7 (123) 456-78-90, 1234@mail.ru.

Anton S. Ivanchev – PhD (Geology and Mineralogy), Associate Professor, Junior Researcher, All-Russian Geological Research Institute of A. P. Karpinsky; 74, Sredniy Prospekt, Saint Petersburg, Russia, 199106; https://orcid.org/0000-0003-0002-0001, Scopus Author ID 98765432109, ResearcherID J-8765-4321, RSCI SPIN-code 1234-5678; +7 (123) 456-78-90, 4321@mail.ru.

Contribution of the authors: V. N. Petrov – research supervision, research concept, methodology development, project work organization, writing the draft, final conclusions. A. S. Ivanchev – preparing supplementary data, follow-on revision, final conclusions.

Conflict of interest: the authors declare no conflicts of interest.

Appendix 3

EXAMPLE OF AN EXPERT REPORT ON OPEN ACCESS PUBLICATION

(FOR KARPINSKY INSTITUTE EMPLOYEES)

APPROVED
Director General
Karpinsky Institute
_____
_____ _____ 20_____

EXPERT REPORT
ON OPEN ACCESS PUBLICATION

_____

(наименование материалов, подлежащих экспертизе)

_____

Expert panel of the Federal state budgetary enterprise "All-Russian Geological Research Institute of A. P. Karpinsky" (Karpinsky Institute), which consists of:

_____

(positions, initials, and last names of the expert panel members)

_____

examined the materials _____

(materials to examine)

from "____" _____ 20 ____ to "____" _____ 20 ____ in order to find non-existent (existent) data on official secrets and (not) to decide on the open access publication.

The expert panel delivered their decision in accordance with the Law of the Russian Federation *Official Secrets*, List of highly classified information that the President of the Russian Federation approved in Federal Act no. 1203 on 30.11.1995, as well as List of information to classify that the Ministry of Natural Resources and Environment of the Russian Federation approved in Federal Act no. 20c on 30.07.2021:

Karpinsky Institute is knowledgeable about the data in the materials for examination.

The data in the materials to examine

_____

(data in the materials)

do not correspond to the Official secrets list (Article 5, the Law of the Russian Federation *Official Secrets*), List of highly classified information that the President of the Russian Federation approved in Federal Act no. 1203 on 30.11.1995, should not be classified, and can be published open access.

Expert panel chairman _____ _____

Expert panel members _____ _____

Appendix 4

License Agreement no. ___/___-20___

Saint Petersburg, Russia **____ _____ 20___**

The Federal state budgetary enterprise "All-Russian Geological Research Institute of A. P. Karpinsky" (Karpinsky Institute) thereinafter referred to as **Publisher**, represented by the First Deputy of Director General M. A. Tkachenko, acting under power of attorney no ___ dated ____.____.20____, as party of the first part, initials and last name (full affiliation) thereinafter referred to as **Author (Coauthors)**, as party of the second part, concluded this agreement (thereinafter — **Agreement**) as follows.

1. Subject matter of the Agreement

1.1. Upon entry of the **Agreement** into force, the **Author (Coauthors)** provide(s) **Publisher** on a royalty-free basis, as long as the copyright exists under the Russian Federation legislative acts in force, with the exclusive license to use the **Author's (Coauthors')** research paper and supplementary data (if available) (thereinafter — Article) entitled ***Article title***, which are approved and accepted for publication in the scholarly journal *Regional Geology and Metallogeny* (year, volume, number), within the scope of this **Agreement**, without reserving the right for the **Author (Coauthors)** to grant similar licenses to other parties.

1.2. The **Author (Coauthors)** guarantee(s) that:

1.2.1. They are current exclusive rights holders of the Article; the rights conferred to the **Publisher** under this **Agreement** have not been conferred before and will not be conferred to third parties in the future.

1.2.2. The submitted Article is an original paper and that the **Author (Coauthors)** has (have) not published the Article in any printed and (or) electronic editions.

1.2.3. The Article includes references to the cited researchers and published sources of the borrowed content, as the Copyright law in force requires; the **Author (Coauthors)** has (have) obtained permission to use the findings, facts, and other borrowed materials in the Article, which the **Author (Coauthors)** is (are) not rights holders of.

1.2.4. The Article does not contain materials for non-open access publication under the Russian Federation legislative acts and that publishing and distributing it by the **Publisher** will not result in disclosing sensitive (classified) information including official, business secrets.

2. Rights and obligations of the Parties

2.1. The **Author (Coauthors)** provide(s) the **Publisher** with the following exclusive rights for the Article as long as they exist:

2.1.1. The right to reproduce the Article (publish, publicize, circulate or copy in any other way) without restrictions to the copies circulation. In this case, each copy must have the Article **Author's (Coauthors')** first, patronymic, and last names.

2.1.2. The right to distribute the Article in any way.

2.1.3. The right to upload the Article published in the scholarly journal *Regional Geology and Metallogeny* on the website https://reggeomet.elpub.ru/.

2.1.4. The right to upload the electronic Article in the Scientific electronic library (eLIBRARY.ru) and other databases or information systems found on the website of the scholarly journal *Regional Geology and Metallogeny* https://reggeomet.elpub.ru/.

2.1.5. The right to include the Article in the compiled work.

2.1.6. The right to publicize the Article.

2.1.7. The right to use the Article metadata (title; **Author's (Coauthors')** first, patronymic, last names, affiliation: institution, city and country; abstract, keywords; acknowledgments and funding source (if available), contribution of the authors, conflict of interest; bibliographic entry for citation) by distributing and publicizing, processing and organizing, as well as including it in different databases and information systems.

2.1.8. The right to translate or convert it in any other way (the right to translate and convert). Article conversion involves transforming it to another format or another media type, including electronic, magnetic, optical media, as well as uploading it in electronic local, global (including Internet), information and reference, advertising networks or projects.

There is no royalty fee for the Article **Author (Coauthors)** granting the aforementioned rights to the **Publisher**.

2.2. The **Author (Coauthors)** is (are) obliged to:

2.1.1. Submit to the **Publisher** a soft copy of the Article in Microsoft Word files as well as graphics.

2.1.2. Approve the electronic publication layout before the Article being accepted for publication.

2.3. The **Publisher** is obliged to respect copyright under the legislative acts in force, the **Author's (Coauthors')** rights, as well as protect them and take all possible measures to prevent third parties from copyright infringement.

2.4. The territory where to use the Article copyright is not limited.

2.5. The **Author (Coauthors)** grant(s) the **Publisher** the right to store and process their personal data without time limit as follows:

- first, patronymic, and last names;
- degree and academic rank, honorary title;
- position, full affiliation;
- office address (street, house number, locality, country, post index);
- identification numbers: ORCID, Scopus Author ID, ResearcherID, RSCI SPIN-code;
- contact telephone number, e-mail address;
- date of birth, passport details (only to sign the **Agreement**).

The personal data are to be stored and processed in different databases and information systems, for being included in analysis and statistics reports.

The **Publisher** is eligible to transfer these data for third parties to process and store if the **Author (Coauthors)** is (are) notified about this fact, including information about the third party (name and address).

The **Author (Coauthors)** withdraw(s) their consent to store and process their personal data by notifying the **Publisher** in writing.

3. Liabilities of the Parties

3.1. Under the Russian Federation law in force, the **Author (Coauthors)** and **Publisher** incur property liability or any other legal liability for not discharging or improperly discharging their obligations under this **Agreement**.

3.2. The party that has improperly discharged or has not discharged their obligations under this **Agreement** is obliged to indemnify against losses to the other Party, including an expectation loss.

4. Confidentiality

4.1. The conditions of this **Agreement** and Addenda are confidential and not liable to disclosure.

5. Final provisions

5.1. The Parties' all disputes and disagreements arising from the **Agreement** conditions shall be settled by negotiations, and if they are unproductive, these disputes shall be presented before a court under the law of the Russian Federation in force.

5.2. This **Agreement** shall come into force when the both Parties sign it.

5.3. This **Agreement** shall remain in force until the Parties fully complete their obligations under it.

5.4. This **Agreement** may be terminated if the both Parties agree to sign the relevant termination agreement.

5.5. The unilateral termination of this **Agreement** is possible as the law in force requires or by court order.

5.6. Any amendments and addenda to this **Agreement** shall be valid only if they are made in writing and the both Parties of this **Agreement** sign them.

5.7. In any matter not covered by this **Agreement**, the Parties shall be governed by the Russian Federation legislative acts in force.

5.8. This **Agreement** is made in two copies of equal content and legal force, one for each Party.

5.9. This **Agreement** signed by the Parties shall be scanned and e-mailed to the editorial office of the scholarly journal *Regional Geology and Metallogeny* (izdatel@karpinskyinstitute.ru). The scanned **Agreement** has legal effect until the Parties exchange the original **Agreement** in a hard copy.

The parties have agreed that in exceptional cases, as article 160 of the Civil Law of the Russian Federation requires, when it is very difficult for the **Author (Coauthors)** to sign the document it is allowed and admitted to reproduce the personal written signature on the document by copying it mechanically, electronically or any other way, which will be as legally effective as the **Author's (Coauthors')** original signature.

6. Details of the Parties

Author (Coauthors):

1. First, patronymic, last names
Date of birth: 00.00.0000
Passport: 00 00 000000 *(serial number)* issued ... *(issuing authority name)* 00.00.0000 *(date of issue)*, subdivision code 000-000

Signature:
_____/Initials Last name/

2. First, patronymic, last names
Date of birth: 00.00.0000
Passport: 00 00 000000 *(serial number)* issued ... *(issuing authority name)* 00.00.0000 *(date of issue)*, subdivision code 000-000

Publisher:

Federal state budgetary enterprise "All-Russian Geological Research Institute of A. P. Karpinsky" (Karpinsky Institute)
Registered office located at 74 Sredny pr., Saint Petersburg, 199106
Bank account details:
Federal Treasury Department
in Saint Petersburg (Karpinsky Institute, personal account 20726B03510)
individual taxpayer number 7801300136,
tax registration reason code 780101001
operating account 03214643000000017200
Beneficiary bank:
Bank of Russia, Northwestern General Administration // Federal Treasury

Signature:

_____/Initials Last name/

Department in Saint Petersburg
Saint Petersburg
sort code 014030106
correspondent account
40102810945370000005

_____/M. A. Tkachenko/