



PROVISION
On the publication of articles in the journal
«BIOLOGICAL SCIENCES»

Kyzylorda, 2023

Information about the document

1. Developed by the Editorial and Publishing Division.
2. Approved and activated by the Chairman of the Board-Rector of Korkyt Ata Kyzylorda University from « October 30 2023 by order 430-9

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Definitions and Abbreviations

This Regulation uses the following abbreviation:

Korkyt Ata Kyzylorda University - Kyzylorda University named after Korkyt Ata.

MRNTI - international rubricator of scientific and technical information

GRNTI - Code of State Categories Scientific and Technical Information

DOI - Digital Object Identifier.

1. General provision

This provision on the publication of articles in the Biological Sciences Journal defines the rules for preparing for publication of scientific articles in the Biological Sciences Journal, registered with the Information Committee of the Ministry of Information and Social Development of the Republic of Kazakhstan. Certificate of re-registration of periodicals, news agencies and online publications No. KZ21VPY00066484 dated 03/16/2023.

Developed in accordance with:

- requirements for scientific publications for inclusion in the list of publications recommended for publishing the results of scientific activities, approved by Order No. 20 dated January 12, 2016 (Footnote. Item 2 - as amended by Order No. 170 of the Minister of Education and Science of the Republic of Kazakhstan dated April 30, 2020 (introduced in effective from 01/01/2021); as amended by the order of the Acting Minister of Science and Higher Education of the Republic of Kazakhstan dated 01/09/2023 № 7 (shall be enforced ten calendar days after the day of its first official publication).

2. Editorial politics and direction of the journal

««Biological Sciences»» is published 4 times a year and contains information about scientific works of domestic and foreign scientists and materials of scientific conferences, scientific and methodical articles, scientific creativity of youth, information about the university life.

The main direction of the journal "Biological Sciences":

1. Basic and applied research in the field of biology;
2. Biological and ecological education.

The tasks of the editorial politics of the journal "Biological Sciences":

to contribute to the improvement of the quality of scientific research, the identification of scientific potential for the introduction of advanced scientific achievements;

Enable scientists and young researchers to publish their research results;

to draw attention to the most relevant perspective and interesting areas:

focusing on the most relevant perspective and interesting areas of the agricultural industry:

ensure interaction and involve leading domestic and foreign scientists in publications, establish an exchange of views between researchers.

relationships of all parties (editors, authors, reviewers) are based on compliance with the requirements to the ethics of publications.

the authors are responsible for the factual material in the articles

Materials that have received a negative review and rejected by the journal are not published and returned to the authors. The editorial office does not store rejected materials.

3. Ethics requirements for publication in the journal

All parties involved in the process of preparing materials for publication in the journal - authors, expert commission, reviewers, editorial board members - should follow the following requirements for publication ethics.

The editorial board of the journal takes into account the best practices of reputable international journals when analyzing articles. In order to ensure the high quality of scientific publications, the editorial board is working to prevent the use of plagiarism when publishing articles, the use of incorrect data, the provision of unfounded information, etc. The editorial board, as well as persons involved in the publishing work, must comply with the rules and standards of ethics adopted by the international community, and take all necessary measures to prevent such actions. The editors will never support illegal actions (plagiarism, manipulation, distortion) and will make every effort to ensure that such actions are not allowed.

The Editor-in-Chief may consult with members of the editorial board and reviewers when making a decision, who shall be guided by the following rules:

- do not disclose information about the submitted manuscript to anyone except the author, reviewers, potential reviewers, other editorial consultants and, if necessary, the publisher.

- do not discriminate in the evaluation of the authors' submissions;
- not to disclose without necessity information about the materials accepted from authors, except authors, reviewers;

- take reasonable measures to identify and prevent the publication of articles in which the research has been improperly conducted, discourage such violations or knowingly permit such violations;

- consider facts or allegations of improper research behaviour;

- be prepared to publish corrections, clarifications, rebuttals and apologies where necessary.

In the publishing process authors are guided by the following rules:

- to work in full compliance with current legal requirements regarding libel, copyright, legality and plagiarism;

- to provide reliable results of the work done on the original study and an objective discussion of its significance.

- contain enough content to ensure a review of the work. False or deliberate erroneous statements may cause material to be rejected or a published article to be

refuted;

- submitting the manuscript simultaneously to another edition is considered immoral and improper. The author must not submit to the magazine an article previously published in other publications;

- guarantee the complete originality of the submitted material. In the case of using works or statements of other authors, appropriate bibliographic references or excerpts are provided;

- Avoid plagiarism in any form. The article must have at least 80% uniqueness of the text for publications.

- The article is not considered plagiarism, provided that the author(s) refer to their own research work and the citation level of their scientific work does not exceed 20%.

- follow the rules of autocitation (self-citation), namely: if the elements of the material were previously published in another article, including in the journal Biological Sciences, the author must refer to the most previous studies. Authors are recommended to observe the degree of self-citation within 0-10% .

- the number of authors of the article should not exceed 5 people;

- disclose in their works information about funding, as well as the presence of third-party interests that may be perceived as having influenced the results or interpretation of their manuscript.

- informing the responsible editors in the scientific areas of the journal about a significant error or inaccuracy in the work and ensuring constant contact with the editors of the journal to remove or correct the article.

- articles of members of the editorial board should not exceed 1 article in each issue;

- the number of articles by one author in each issue of the journal should not exceed 2 (one) articles written separately and / or jointly.

4. Expert opinion and review of scientific articles submitted to the editorial office

Expert opinion and review of manuscripts of scientific articles for publication in the journal "Biological Sciences" are carried out in order to maintain a high scientific and theoretical level of publication and selection of the most valuable and relevant (perspective) scientific works.

The Expert Commission may reject the materials and require the author(s) to bring them in accordance with the requirements of the scientific articles.

In order to ensure the quality of published materials and respect for copyright, all received materials are checked for borrowing. The verification of the program is carried out by the responsible employee of the university - «root administrator of the system», and only then are sent for review.

The authors, who send their articles for publication in the journal «Biological Sciences», express their consent to the publication of the article, to the placement of metadata of the article (full names authors and places of their affiliation, annotations,

keywords, bibliographic list) in public access to the journal's website on the Internet, to transmit the text of the article (including links, bibliographic information, etc.) to persons and organizations to whom the information is obligatory, or to others in order to allow citation of the publication and to increase the index of citation of authors and journal, and confirm that the submitted articles were not published in other journals or submitted for publication in other journals.

The editorial office keeps a record of the passing of manuscripts procedure of expert evaluation and review.

The author(s) of the article send(s) the material for consideration by the expert commission, created by the order of the Chairman of the Board-Rector of the Korkyt Ata KU of the journal "Biological Sciences. In turn, the expert commission checks the article for compliance with the formatting rules.

Expert opinion (to scientists whose scientific orientation corresponds to the content of the article) is given by any scientist in the approved expert commission. The expert opinion is a protocol (Annex 1) and an opinion of a member of the expert commission, written and signed in an arbitrary form and certified by the secretary of the organization (Annex 2).

After receiving the expert opinion, the author uploads (according to the instructions) through the site of the journal vestnik.korkyt.kz scientific article, written in three languages information about the authors, annotations, and expert opinion of the article. The expert commission determines the compliance of the article on the profile of the journal, the requirements to the design.

The editorial board under the supervision of the chief editor checks the compliance to the scientific direction of the article submitted to the editorial office, and a decision is made on the acceptance or rejection of the article.

The responsible secretary checks the accepted articles in the program of antiplagiarism, after checking their compliance with the requirements specified in the technical design according to the instructions for authors. (The verification requirement in the program Antiplagiarism is fully described in the Rules of use of the system «Antiplagiarism».) The article, whose authenticity exceeds 80%, is sent for review.

The review procedure is carried out through the online submission and review system of articles, through «blind review» by a separate electronic site.

Reviewers are guided by the following rules:

- to work in full compliance with the editorial politics of the journal, taking into account the actual legal requirements regarding libel, copyright, legality and plagiarism;
- not to use unpublished materials obtained from submitted manuscripts for examination in personal research without written consent of the author;
- comply with review deadlines agreed with the responsible editors;
- notify the responsible editors and exclude yourself from the review process, feeling incompetent to review the research presented in the manuscript, or believing that a speedy review of the manuscript will be impossible.

- to consider any material received for review as a confidential document, not to disclose its contents and not to discuss with any persons other than responsible editors;

- to give an objective assessment of the materials submitted for review. Reviewers should express their opinion clearly and reasoned.

- to draw the attention of the editors-in-chief of the series to any significant similarities or coincidences between the manuscript in question and any other published work.

The review procedure includes the following steps:

1. The article is sent for review to the Doctor of Sciences, the Candidate of Sciences or PhD, whose scientific specialization is most close to the subject of the scientific article.

2. The review period may vary depending on the specific situation, but not more than 4 working weeks.

3. The reviewer cannot be the author or co-author of the peer-reviewed work, as well as the scientific supervisors of the candidate academic degree, PhD degree and employees of the department in which the author works. Reviews are discussed by the editorial board and serve as a basis for acceptance or rejection of manuscripts.

4. The review should objectively assess the scientific article and contain a comprehensive analysis of its scientific and methodical advantages and disadvantages. The review is based on the standard proposed revision (Annex 3, table on the site).

In the review should be briefly evaluated:

- general scientific level of work;
- the title and its correspondence to the content of the article;
- relevance of the topic;
- scientific novelty,
- the practical significance of the presented conclusions;
- work structure;
- debating and/or incorrect provisions;
- the positive aspects or shortcomings of the article are noted, what corrections and additions should be made by the author;
- the reviewer's opinion on the possibility or impossibility of publishing the manuscript is stated..

Copies of the content of the review shall be communicated to the author(s) within a week after the editorial office received the expert opinion.

The article sent to the author for revision must be returned in the corrected form within 10 days with the corrections marked in the article.

The editorial board reserves the right to reject the articles in case of inability or unwillingness of the author to take into account the wishes of the editorial board.

The originals of the reviews are kept in the editorial office of the journal

« Biological Sciences », for three years. Including to be made available to competent authorities upon request.

5. Manual for authors of manuscripts

A finished scientific work for publication in the journal "Biological Sciences" can be submitted by the author (authors) through the online submission system on the website vestnik.korkyt.kz, using special instructions. The article must be written in Word format on Windows 10 in Times New Roman font (an article not written in accordance with this requirement will not be automatically accepted). Language of publications Kazakh, Russian, English.

Submitting the text of the work for publication in the journal, the author guarantees the correctness of all information about himself, the absence of plagiarism and other forms of illegal borrowing in the manuscript, the proper design of all borrowings of the text, tables, diagrams, illustrations.

Authors should write articles based on scientific discovery and practical value, as well as the principles of academic integrity, and observe the mutual harmony of words, combining modern fundamental and applied issues in the field of biological sciences and education.

it is not allowed to use the text of other authors with a synonymous replacement (plagiarism) translated from another language; use and (or) ownership of the text, ideas, hypotheses, conclusions, methods, research results, tables, codes, images and works without reference to other authors and the source of the use of the text, as well as words and opinions without change, including with the use text;

refer to non-existent sources, do not provide conflicting data and (or) results, records or notification on them;

The list of citations in the article should contain only peer-reviewed sources of literature, information sources that have assigned the DOI index in accordance with the structure of the article.

Theoretical scientific articles should include research results using methods such as abstraction, synthesis, analysis, induction, inference, formalization, idealization, modeling. The logical legislative and regulatory framework should prevail.

Although a number of theoretical methods are used in scientific works of an empirical nature, they should rely more on the methods of measurement, observation, and experiments used in biological science.

In addition, the article should include new scientific results, provisions, recommendations and conclusions. The totality should consist of new, scientifically substantiated theoretical, research results in biology, defined as a new scientific achievement or scientifically substantiated solutions that contribute to the development of Kazakhstani science.

All sections and provisions of the article must have a logical connection; scientific provisions, results and recommendations should correspond to the goals and objectives of the article.

Structure and design of the article:

1. The volume of the article is from 6 to 12 pages (without a list of references and annotations).

2. The layout of the article (page - A 4, portrait orientation, margins on the left, top and bottom sides - 2.5 cm, with parva - 2.0 mm .. Font: type - Times New Roman, size (point size) - 12):

- MRNTI index - first line from top left <http://grnti.ru/> .
- DOI index (provided by the editors of the journal);
- The title of the article - in capital letters, center alignment in bold, size (size) -

12.

- Initials and surname of the author(s) - center alignment, size (point size) – 11, the number of authors of the article should not exceed 5 people.

- Full name of the organization, city, country (if the authors work in different organizations, it is necessary to put the same number next to the name of the author and the corresponding organization, the authors' email address, orsid number) - center alignment, italics, size (point size) - 11.

- **Annotation** in the original language (150-200 words; keeping the structure of the article) size (point size) - 11.

- **Keywords** (in Kazakh, Russian, English from 5 to 8 words / phrases) size (point size) - 11.

- **Main text** (12 font, line spacing - 1, "red line" indent - 1.25 cm)

- structure:

3) **Introduction:** rationale for the choice of topic; the relevance of the topic or problem, the definition of the object, subject, goals, objectives, methods, approaches, hypotheses and meanings of the work.

4) **Materials and methods of research:** should consist of a description of the materials and the progress of the work, as well as a full description of the methods used. This section describes how the problem was investigated: detailed information without repeating previously published established procedures; identification of equipment (software) and description of materials are used, with the obligatory introduction of novelty when using materials and methods. Tables, figures must be placed after the mention.

Each illustration should be accompanied by an inscription (size (size) - 11). Drawings must be clear, clean, unscanned. Titles of figures and tables, bold 11 font. Table indicators are formatted in font 11.

In the article, only those formulas that are referenced in the text are numbered. All abbreviations and abbreviations, with the exception of those that are obviously well known, must be deciphered at the first mention in the text. In the article, only those formulas that are referenced in the text are numbered.

All abbreviations and abbreviations, with the exception of well-known abbreviations and abbreviations, must be deciphered when first used in the text. In the text, links are displayed in square brackets. Links should be strictly numbered in the text. The first reference to the literature in the text should contain the number [1], the second - [2], etc. References to unpublished works are not allowed.

References to unpublished works are not allowed. Links to non-censored publications are not desirable.

5) **results/discussion:** an analysis and discussion of the results of the study is provided.

6) **conclusion/conclusions:** generalization and summing up of the work at this stage; confirmation of the truth of the statement made by the author. Conclusions should be used to summarize the results of research in a particular scientific field, with a description of proposals or opportunities for further work. Information about financial support for the work must be indicated at the end of the article.

7) **the list of references** ((size (point) – 11, number of literature used – at least 15). 1) in alphabetical order in the language of the article without numbering; 2) Latin transliteration <http://www.translit.ru> , within which a translation into English is provided in vertical brackets. The citation list in the article must contain literary sources corresponding to the scientific direction of the article, as well as literature with a DOI index (or URL - address) (sample – Appendix 4).

The style of the list of references in Russian and Kazakh languages in accordance with the requirements according to GOST 7.1-2003 “Bibliographic record. Bibliographic description. General requirements and rules of compilation.”

8) information about the authors: (must contain the full name of the author(s), full name of the organization, city, country, contact details: phone, email, Orcid ID) in 3 languages. If the author does not have an Orcid ID, you must register with the Orcid ID at the link: <https://orcid.org/>.

9) Articles submitted to the editorial office, if they meet the requirements, will be carried out in accordance with the anti-plagiarism procedures. The article, the originality of which exceeds 80%, is sent for consideration to the editorial office. And an article below 80% is sent to the author for addition (The cost of the first check of the article for originality in the anti-plagiarism program is 1500 tenge, if the same article is checked again – 1000 tenge). After a positive review by the reviewers, the article is accepted for publication in the journal and a payment notification is sent to the author. The author is obliged to send a payment receipt to the editorial office by e-mail (khabarshy@korkyt.kz).

The cost of the article: The cost of one article in the scientific direction of biology is 5000 tenge.

The editorial board of the journal provides 3 days for each author to review their articles before publishing the latest version of the PDF version on the website of the University " Biological Sciences " <https://vestnik.korkyt.kz/> and on the Crossref website <https://apps.crossref.org/webDeposit/> The final version of the journal will be published on the website after accepting the authors' reviews, responses, etc. The authors' notifications are not accepted and the editorial board is not responsible for subsequent identified errors.

Payment details.

University address: 120014, Republic of Kazakhstan, Kyzylorda, Aiteke bi st., 29a.

Ministry of Science and Higher Education of the Republic of Kazakhstan

JNSC Kyzylorda University named after Korkyt Ata

JSC Halyk Bank of Kazakhstan.

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BIN 960540000620


IIC KZ 276017201000000125

BIC HSBKKZKX, bc-16

TTK-859

INTRODUCED (DEVELOPED)

Head of the Editorial
and Publishing Department


 Abuova N.A. _____
signature date

AGREED:


Member of the board Vice-Rector
for Research and
International Relations

 Buribayeva M.A. _____
signature date

Chief editor

 Omarov K.A. _____
signature date

Head of International
Relations Department

 Almakhanova G. _____
signature date

PROTOCOL №____
 dated "____" _____ 20____
 expert commission meetings Korkyt Ata Kyzylorda University

Present:

Commission Chairman	
	(scientific degree, full name)
Commission members	
	(scientific degree, full name)
Commission Secretary	
	(scientific degree, full name)

We listened to the report of the expert _____ (academic degree, full name) about the article _____ (academic degree, full name of the author(s)) “_____” (name of the article), submitted for publication in the republican scientific and methodological journal «Biological Sciences».

Questions, comments, objections, suggestions of experts: the material corresponds to the profile of the journal, the requirements for the design of manuscripts. This article does not contain information provided for in Article 12 of Chapter 3 of the current Law of the Republic of Kazakhstan "On State Secrets". The decision was made: the expert commission considers it possible to publish the article "_____" (name of the article) _____ (academic degree, full name of the author(s)) in the open press.

Commission Chairman
 (scientific degree, full name)

 (signature)

Commission member
 (scientific degree, full name)

 (signature)

Commission member
 (scientific degree, full name)

 (signature)

Commission Secretary
 (scientific degree, full name)

 (signature)

Author (s) _____
(surname and initials of the author (s))

(article title)

to the article written on the subject
EXPERT OPINION

*The expert commission, having considered the article “_____”
The article should contain brief information about the content, scientific novelty,
research materials and methods, research results and analysis indicators.*

Reviewer:

signature:

Secretary:

reviewing the article submitted to the journal «Biological Sciences»

REVIEW

Article title:	
Reviewer: Full name, academic degree and title, position	
Date:	

Content evaluation

Study object

1	Formulated clearly and accurately
2	Should be defined more clearly
3	Not clear, should be reformulated
Reviewer's comment:	

Theoretical foundations and explanations

1	The author expresses an original point of view
2	There are enough links to previous studies
3	Lack of links to other studies
4	The theoretical background is missing or unclear
Reviewer's comment:	

Information and data provided

1	New, original
2	Expand and supplement already known information
3	Repeat already known information
4	Obscure
Reviewer's comment:	

Research method

1	Well grounded and consistent
2	Insufficiently substantiated, should be reconsidered
3	Method unclear
4	Not required for this kind of work
Reviewer's comment:	

Problem solving and analysis of results

1	Very well grounded
2	Reasonable enough

	Poorly grounded, should be revisited
	Not clear and / or too abstract
	Descriptive work
Reviewer's comment:	

Evaluation form

Name

	Clear and precise
	Should be revised
Reviewer's comment:	

Language style

	A great
	Free enough
	Understandable
	Hard to understand
Reviewer's comment:	

Tables, graphs, etc.

	Acceptable
	Should be revised
	Missing / not required
Reviewer's comment:	

List of used literature

	Acceptable
	Should be edited
Reviewer's comment:	

Annotation

	Acceptable
	Should be edited
	Should be revised
Reviewer's comment:	

Conclusions

	Publish as provided
	Accept with minor changes
	Accept with significant changes
	Reject as it stands, but with the possibility of re-filing
	Reject without the possibility of re-filing

Reviewer's comment:	
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FLORA OF THE COASTAL ZONE NORTH-EASTERN CASPIAN REGION**Ibadullayeva S.Zh.¹**, doctor of biological sciencessalt_i@mail.ru, <https://orcid.org/0000-0003-3270-8364>**Ibragimov T.²**, candidate of biological sciencesecopastbish@mail.ru, <https://orcid.org/0000-0001-8902-9042>**Toktaganova G.B.¹**, PhDgulzhas@mail.ru, <https://orcid.org/0000-0002-9191-9703>**Tazhenova S.K.¹**, master of geographysandugash_77.09@mail.ru, <https://orcid.org/0000-0003-1346-0543>¹*Korkyt Ata Kyzylorda University, Kyzylorda city, Kazakhstan*²*M. Auezov South Kazakhstan University Shymkent city, Kazakhstan*

Annotation. The main limiting factors of the botanical composition of the communities of the Caspian region are the modes of humidification and salinization. In this regard, the vegetation cover is characterized by poor floral and phytocenotic diversity and simple structure. This is also due to the youth of the territory, periodic transgressions and regressions of the Caspian Sea and the constant influence of the sea's overgrowth phenomena.

Keywords: flora, vegetation, communities, Caspian, phytobiota, monitoring

Introduction. The importance of environmental problems and environmental protection activities in the modern world is constantly increasing, substances dangerous to humans and natural ecosystems enter the environment and accumulate in its various elements.

Research materials and methodology. generally accepted geobotanical and monitoring.

In the geobotanical description, the complete floral composition is established for each plant community, the phases of the phenological development of individual species, their vital state, abundance (on the Drude scale), placement (on the B.A.Bykov scale), morphometric parameters (height, habitus), life forms (trees, grasses, shrubs, etc.) are determined.

Research results and their discussion. Description vegetation is produced on special forms, including the following sections:

a) The name of the community.

Table 1 – Classification of higher plants in relation to the environment

Family	Number Share of total number		Share of total, %
	of genera	of species	
Asteráceae	16	29	12,33
Chenopodiaceae	20	44	19,38
Poáceae	14	19	8,37

Conclusion. The Caspian region is characterized by the complexity of the vegetation cover, due to age-old fluctuations in sea level and the processes of stratification of soil salinization, salt fluctuation and the structure of the microrelief. Halophitization of vegetation is observed everywhere, due to surges of salty sea waters, and on land also salinization of soils as a result of their bedding by saline sedimentary marine sediments and wick pulling of mineralized groundwater.

References:

- [1] **Punch, K.F.** (2013). Introduction to social research: Quantitative and qualitative approaches. Sage https://books.google.com/books?hl=en&lr=&id=G2fOAgAAQBAJ&oi=fnd&pg=PP1&ots=j4sHFicPvp&sig=0zFj9Mpc7wd7d2OipXNrrfWPCxk&redir_esfal&yq#v=
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- [3] **Simola, H.** (2005). The Finnish miracle of PISA: Historical and sociological remarks on teaching
- [4] **Aidarbayeva, D.K., Sholpankulova G.A.** Studying the biodiversity of useful plants of Southern Kazakhstan /Promising research directions in the methodology of teaching biology and ecology /Collection of articles of the International Scientific and Practical Conference (November 19 – 22, 2018). Issue 16, St. Petersburg / edited by prof. N.D. Andreeva. – St. Petersburg: "Own publishing house", 2018. – p.193 – 195

СОЛТҮСТІК-ШЫҒЫС КАСПИЙДІҢ ЖАҒАЛАУ АЙМАҒЫНЫҢ ФЛОРАСЫ

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Ибрагимов Т.С.², биология ғылымдарының кандидаты

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Аннотация. Каспий маңы аумағындағы қауымдастықтардың ботаникалық құрамының негізгі шектеуші факторлары болып ылғалдандыру және тұздану режимдері болып табылады. Осыған байланысты өсімдік жамылғысы нашар флористикалық және фитоценодикалық әр түрлілікпен және қарапайым құрылым жағдайымен сипатталады. Бұл сонымен қатар аймақтың жастық жағдайына, Каспий теңізінің жағалау аймағында қазіргі уақытта болып жатқан мерзімді трансгрессиялары мен регрессияларына және Каспий теңізінде болып жатқан құбылыстарының тұрақты әсеріне байланысты болады.

Тірек сөздер: флора, өсімдіктер, қауымдастықтар, Каспий маңы, фитобиота, мониторинг.

ФЛОРА ПРИБРЕЖНОЙ ЗОНЫ СЕВЕРО-ВОСТОЧНОГО КАСПИЯ

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Ибрагимов Т.С.², кандидат биологических наук

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Аннотация. Основными ограничивающими факторами Ботанического состава сообществ Прикаспийского региона являются режимы увлажнения и засоления. В связи с этим растительный покров характеризуется бедным флористическим и фитоценотическим разнообразием и простым структурным состоянием. Это также зависит от молодости региона, периодических трансгрессий и регрессий, происходящих в настоящее время в прибрежной зоне Каспийского моря, и постоянного воздействия явлений, происходящих в Каспийском море.

Ключевые слова: флора, растения, сообщества, Прикаспийский, фитобиота, мониторинг

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