

ГЕОЛОГИЯ. ГЕОЭКОЛОГИЯ

Научная статья

УДК 504.45:504.4.054(571.621)

СОДЕРЖАНИЕ ТЯЖЕЛЫХ МЕТАЛЛОВ В КОМПОНЕНТАХ МАЛОЙ РЕКИ, НЕ ПОДВЕРЖЕННОЙ ВЛИЯНИЮ АНТРОПОГЕННОЙ ДЕЯТЕЛЬНОСТИ

Д.Е. Аверин^{1,2}, В.А. Зубарев²

¹Примамурский государственный университет имени Шолом-Алейхема,
ул. Широкая 70А, г. Биробиджан, 679015,

e-mail: danila.averin.2000@mail.ru <https://orcid.org/0000-0003-2602-7992>;

²Институт комплексного анализа региональных проблем ДВО РАН,
ул. Шолом-Алейхема 4, г. Биробиджан, 679016,

e-mail: Zubarev_1986@mail.ru, <https://orcid.org/0000-0002-6245-5401>

В статье рассмотрено содержание тяжёлых металлов в поверхностных водах, донных отложениях и мшанках карьера серебряного (*Sargassum angulatus gibelio*) из верховий реки Ольговы. Результаты проведенных лабораторных исследований показали, что содержание биогенных веществ (NH_4^+ , NO_3^- , NO_2^- , PO_4^{3-}) в воде реки не превышает предельно допустимых значений. Тяжёлые металлы (Fe, Mn, Zn, Pb, Cu и Ni) в речной воде, за исключением железа и марганца, накапливаются в пределах ПДК. Высокие концентрации Fe и Mn объясняются особенностями бурового геологического провинция. Повышенное содержание цинка в донных отложениях объясняется повышенной геологической активностью данного металла. Содержание тяжёлых металлов в мшанках карьера в верховьях реки Ольговы по сравнению с другими реками России является одним из наиболее низких. Предположительно, в мшанках больше всего накапливаются цинк и железо. Полученные данные о составе и количестве воды, донных отложений, а также концентрации металлов в мшанках карьера серебряного можно считать фоновыми для региона вследствие отсутствия антропогенной нагрузки на водоток.

Ключевые слова: река Ольгова, тяжёлые металлы, поверхностные воды, донные отложения, карьер серебряный, *Sargassum angulatus gibelio*, Среднеамурская провинция.

Образец цитирования: Аверин Д.Е., Зубарев В.А. Содержание тяжёлых металлов в компонентах малой реки, не подверженной влиянию антропогенной деятельности // Региональные проблемы. 2022. Т. 25, № 4. С. 22–30. DOI: 10.31433/2618-9593-2022-25-4-22-30

Введение

Использование водных ресурсов для удовлетворения нужд человека обычно сопровождается ухудшением их качества. Это выражается не только в изменении физико-химического состава вод, но и количественных и качественных характеристик гидробионтов, населяющих водоёмы и водотоки [29]. Разные реки испытывают различную антропогенную нагрузку в зависимости от своего хозяйственного назначения. Это может быть забор воды для нужд населения и хозяйства, сброс сточных вод предприятиями и жилищно-коммунального

комплекса, использование рек в качестве судоходных артерий, строительство гидротехнических инженерных сооружений и так далее [14, 34]. При исследовании рек, испытывающих антропогенную нагрузку, неизбежно встаёт вопрос о сравнении полученных результатов с фоновыми для данной местности значениями. Такими точками сравнения могут стать малые реки, не подверженные влиянию антропогенной деятельности [13].

Для экологической оценки состояния воды малых рек немаловажную роль играет информация о содержании различных элементов в гид-

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