

## ADDITIONS TO THE FLORA OF KEMEROVO REGION (2010–2020)

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The article summarizes data on 43 new species of vascular plants, discovered over the past decade (2010 to 2020) in the Kemerovo Region. 16 species were recorded in the region for the first time, only 6 of them are native. All the materials are stored in the collections of the Kuzbass Botanical Garden Herbarium (KUZ).

*Keywords:* vascular plants, floristic finds, Kuzbass Region

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### REFERENCES

- Baikov K.S. 2007. Molochai Severnoy Azii [*Euphorbia* from North Asia]. Novosibirsk. 362 p. (In Russ.).
- Ebel A.L., Kupriyanov A.N., Khrustaleva I.A., Pyak A.I., Gudkova P.D., Marcin Nobis. 2015. New records to the vascular flora of Kazakhstan (Central Asia). – Polish Botanical Journal. 60 (2): 191–195.
- Ebel A.L. 2007. New records of adventive plants in the Tomsk region. – Bot. Zhurn. 92 (5): 764–774 (In Russ.).
- Ebel A.L. 2012. Konspekt flory Severo-Zapadnoi chasti Altae-Sayanskoi provintsyi [The Conspectus of the flora of the North-West part of Altae-Sayan province]. Kemerovo. 568 p. (In Russ.).
- Efimov P.G., Philippov E.G., Krivenko D.A. 2016. Allopolyploid speciation in Siberian *Dactylorhiza* (Orchidaceae, Orchidoideae). – Phytotaxa. 258 (2): 101–120. <http://dx.doi.org/10.11646/phytotaxa.258.2.1>
- Efimov P.G., Litvinskaya S.A., Sheremetova S.A., Pushai E.S., Kozhin M.N. 2020. New data on distribution of Orchidaceae speciosin several regions of Russia (2). – Bot. Zhurn. 105 (10): 1010–1014 (In Russ.). <https://doi.org/10.31857/S0006813620100038>
- Filippov E.G. 2014. On the question of *Dactylorhiza ochroleuca* (Wustn. ex Boll.) Holub in Russia. – Proceeding of the 13th International Scientific and Practical Conference “Problems of Botany of South Siberia and Mongolia”. Barnaul. P. 251–252 (In Russ.).
- Kechaikin A.A., Smirnov S.V., Shmakov A.I., Shalimov A.P., Vaganov A.V., Batkin A.A., Skaptsov M.V., Kutsev M.G., Shaulo D.N., Matsyura A.V. 2017. Addition to the flora of Altai. – Ukrainian Journal of Ecology. 7 (2): 165–172 (In Russ.).
- Khrustaleva I.A. 2000. The check-list of flora of Kulunda. – Botanicheskie issledovaniya Sibiri i Kazakhstana. 6: 58–93 (In Russ.).
- Konspekt flory Aziatskoy Rossii: Sosudistye rasteniya. 2012. [Abstract of the flora of Asian Russia: Vascular plants.]. Novosibirsk. 640 p. (In Russ.).
- Krasnaya kniga Chelyabinskoi oblasti 2017. [Red Book of Chelyabinsk region: Animals. Plants. Mushrooms]. Moscow. 504 p. (In Russ.).
- Krasnoborov I.M. 2006. The flora’s investigators of Kemerovo region. – Botanicheskie issledovaniya Sibiri i Kazakhstana. 12: 134–147 (In Russ.).
- Kulikov P.V. 2010. Opredelitel’ sosudistyx rasteniy Chelyabinskoy oblasti [Key to vascular plants of the Chelyabinsk region]. Ekaterinburg. 969 p. (In Russ.).
- Kuminova A.V. 1950. Rastitelnost’ Kemerovskoy oblasti. [Vegetation of the Kemerovo region]. Novosibirsk. 167 p. (In Russ.).
- Kupriyanov A.N., Lazarev K.S. 2012. New and rare species for the flora of Kemerovo. – Byulleten’ Glavnogo Botanicheskogo Sada. 198 (3): 30–34 (In Russ.).
- Opredelitel’ rasteniy Kemerovskoy oblasti. 2001. [Key to vascular plants of the Kemerovo region]. Novosibirsk. 477 p. (In Russ.).
- Peshkova G.A. 1990. *Glyceria* R.Br. – Mannik. – In: Flora Siberia. Poaceae (Gramineae). T. 2. Novosibirsk. P. 212–215 (In Russ.).
- Prokhanov Ya.I. 1949. Rod Molochay – *Euphorbia* L. – In: Flora SSSR. T. 14. Moscow; Leningrad. P. 304–495 (In Russ.).
- Shaulo D.N., Zykova E.Yu. 2013. Findings of adventive species in the Novosibirsk Oblast’. – Rastitel’nyy Mir Aziatskoy Rossii (Plant Life of Asian Russia) 1 (11): 37–43 (In Russ.).
- Sheremetova S.A., Ebel A.L., Buko T.E. Supplement to the flora of Kemerovo region since 2001 till 2010. – Turczaninowia. 14 (1): 65–74 (In Russ.).

- Sheremetova S.A., Rotkina E.B. 2018. Rare species of steppe communities of the Kemerovo region. — Proceeding of the 17th International Scientific and Practical Conference “Problems of Botany of South Siberia and Mongolia”. Barnaul. P. 162–166 (In Russ.).
- Sheremetova S.A., Sheremetov R.T. 2019. A new record of synanthropic species *Bidens frondosa* L. (Asteraceae) for Siberia. — Systematic notes on the materials of Krylov Herbarium of Tomsk State University. 119: 44–50 (In Russ.).
- Sheremetova S.A., Sheremetov R.T. 2020. Bassein reki Tom' (floristicheskie i fiziko-geograficheskie osobennosti) [The Tom River Basin (floristic and physical-geographical features)]. Novosibirsk. 323 p. (In Russ.). <https://doi.org/10.17223/20764103.119.5>
- Silantyeva M.M. 2006. Konspekt flory Altaiskogo kraja [The Conspectus of the flora of the Altay Region] Barnaul. 392 p. (In Russ.).
- Taliev V.I. 1949. Opredelitel' vysshikh rastenii Evropejskoi chasti SSSR [Key to higher plants of the European part of the USSR]. Moscow. 342 p. (In Russ.).
- Tzvelev N.N. 2004. Rod Khlopushka — *Oberna* Adams. — In: Flora of Eastern Europe. T. 11. Moscow; St. Petersburg. P. 229–233 (In Russ.).
- Tupitsyna N.N. 2011. Addition to the Flora of Siberia (Polygonaceae Juss.) Turczaninowia. 14 (1): 55–58 (In Russ.).
- Tzvelev N.N. 2000. Manual of the vascular plants of North-West Russia (Leningrad, Pskov and Novgorod provinces). St. Petersburg. 781 p. (In Russ.).
- Verkhovzina A.V., Chernysheva O.A., Ebel A.L., Erst A.S., Dorofeev N.V., Dorofeyev V.I., Grebenjuk A.V., Grigorjevskaja A.Ya., Guseinova Z.A., Ivanova A.V., Khapugin A.A., Korolyuk A.Yu., Korznikov K.A., Kuzmin I.V., Mallaliev M.M., Murashko V.V., Murtazaliev R.A., Popova K.B., Safronova I.N., Saksonov S.V., Sarajeva L.I., Senator S.A., Troshkina V.I., Vasjukov V.M., Wang W., Xiangv K., Zibzeev E.G., Zolotov D.V., Zykova E.Yu., Krivenko D.A. 2020. Findings to the flora of Russia and adjacent countries New national and regional vascular plant records, 2. — Botanica Pacifica. A journal of plant science and conservation. 9 (1): 139–154. <https://doi.org/10.17581/bp.2020.09115>
- Vlasova N.V. 1996. Semeistvo Onagraceae — Kipreinye. — In: Flora Siberia. Geraniaceae — Cornaceae. T. 10. Novosibirsk. P. 106–120 (In Russ.).
- Zhikhareva O.N., Silantyeva M.M. 2003. Konspekt flory severnykh predgoriy Altaya [Conspectus flora of the northern foothills of Altai]. — Flora and vegetation of Altai. 8: 5–109 (In Russ.).
- Zolotukhin N.I. 1983. Adventive plants in the Altai Reserve. — Bot. Zhurn. 68 (11): 1528–1533 (In Russ.).