

A first record of the Komarov Lotus *Nelumbo komarovii* Grossg. in the Nakhodka City District

A. N. Tyurin*

National Scientific Center of Marine Biology, Far Eastern Branch, Russian Academy of Sciences
Vladivostok, 690041, Russian Federation
e-mail: antyurin.mr@gmail.com

The new population of the lotus flower *Nelumbo komarovii* Grossg. — a relict plant of Primorye territory — was observed at the small lake by the fifth km sign of the road Dushkino — Livadia (N 42.887, E 132.701) on September 2018 (Fig. 1).

Pictures of the population were taken during May – October 2019. The growth of the population spot from 2 to 5 meters in diameter and appearance of the second spot were observed (Fig. 2). This first registration in the Nakhodka City District adds a new species to the previously published in this scientific journal paper with illustrated list of rare vascular plant species of the Nakhodka CD [Prokopenko, Nechaev, 2016].

The way the lotus seeds got this lake remains unknown. It can only be suggested that it was a human action or they were brought by the Grey herons *Ardea cinerea* Linnaeus, 1758 which frequent the Lake (Fig. 3).

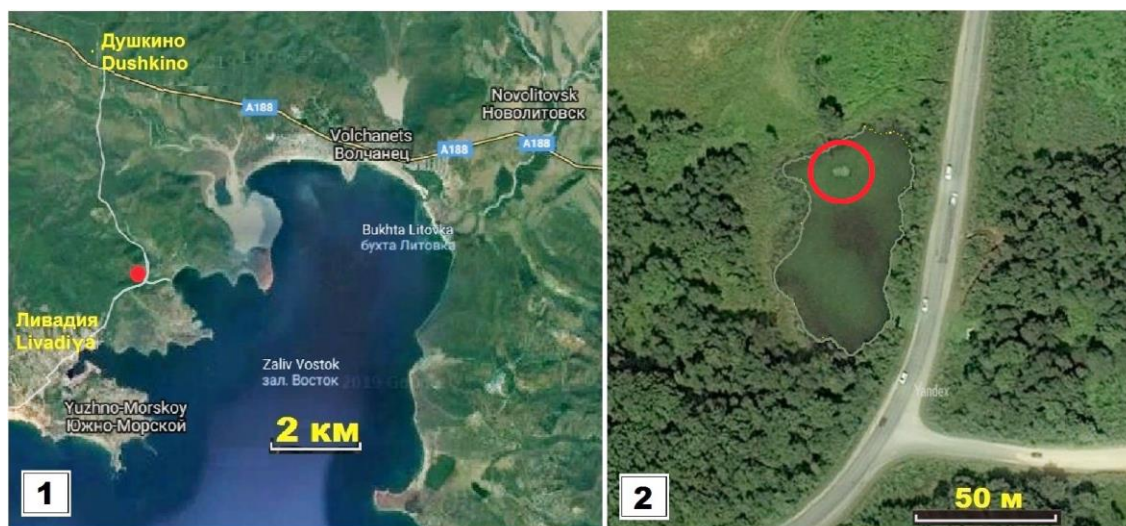


Figure 1. The Fifth Kilometer Lake, in which the Komarov lotus *Nelumbo komarovii* was registered: 1- the location of the Lake is shown by a red dot; 2 – the Komarov lotus population in the northern part of the small Lake is visible from space (bright spot in a red circle) due to the good reflection of light by smooth and moist lotus leaves (maps by <https://www.google.com/maps/>).

References

- Prokopenko S. V., Nechaev V. A. 2016, Vascular plants of Nakhodka city district included in the Red Data Books of Russia and Primorsky krai, *Biodiversity and Environment of Far East Reserves*, no. 2, pp. 64–94. [In Russian].

* About the author: Tyurin Alexey Nikolaevich – Ph. D Biol. Sci., NSCMB FEB RAS, Vladivostok, e-mail: antyurin.mr@gmail.com.



Figure 2.1. The development of a new Komarov lotus population in May - July 2019.



Figure 2.2. The development of a new Komarov lotus population in August - October 2019



Figure 3. Gray heron on a tree near the Fifth Kilometer lake.