

New Finds of 2018

GREEN ANDRADITE FROM BOR OPEN PIT, DALNEGORSK, RUSSIA

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Geographical location of Dalnegorsk deposits, Primorsky Krai, Far East, Russia.

1. Alexey Glotov at the new andradite occurrence, Bor open pit of the Dalnegorsk Borosilicate deposit, Far East, Russia. Photo: Alexey G. Glotov.

2. Bor open pit of the Dalnegorsk Borosilicate deposit. Photo: Alexey G. Glotov.



To the *Mineralogical Almanac* office, Alexey G. Glotov, a Russian mineral collector, recently brought some nice garnet specimens. He found them in the Bor open pit, Dalnegorsk Borosilicate deposit, Russia in the summer of 2018 (Figs. 1 and 2).

They are mostly crystal clusters from a cavity in a coarse garnet aggregate within the contact zone of a wollastonite-datolite skarn with limestone (Figs. 4 and 7). Such large crystals are especially spectacular (Figs. 5 and 6). The newly found crystals are up to 1.5 cm on edge. The crystals of olive greenish color are almost transparent and elegantly faceted by only the dodecahedron with flat and smooth faces and very sharp edges. The parqueting (Fig. 3) is exceptional, which indicates inner crystal perfection. There is a slight striation from the trapezohedron. The crystal luster is a little matted on dodecahedron {110} faces but glassy and strong on the stripes of trapezohedron {211} striation. The transparency and fine shape allow us to assume the crystals to have undergone a slow and long growth process under calm and stable conditions.

The lab investigation made in laboratory of the Federal Institute for Geosciences and Natural Resources of Germany lets refer the new find to the andradite species. Formerly, garnets of grossular — andradite series were known at the Dalnegorsk Borosilicate deposit as well webmineral.ru¹ and mindat.org²; however, crystals of such high and partly gemmy quality are rare.

Cordial thanks to Maria A. Sitnikova for the diagnostic study of the new find and Dr. John White for editing this translation from Russian.



3. Cluster of parquettted crystals of **andradite**. 2.1 cm wide. Bor Open Pit, Dalnegorsk Borosilicate deposit, Primorsky Krai, Russia. Specimen and photo: Boris Z. Kantor.

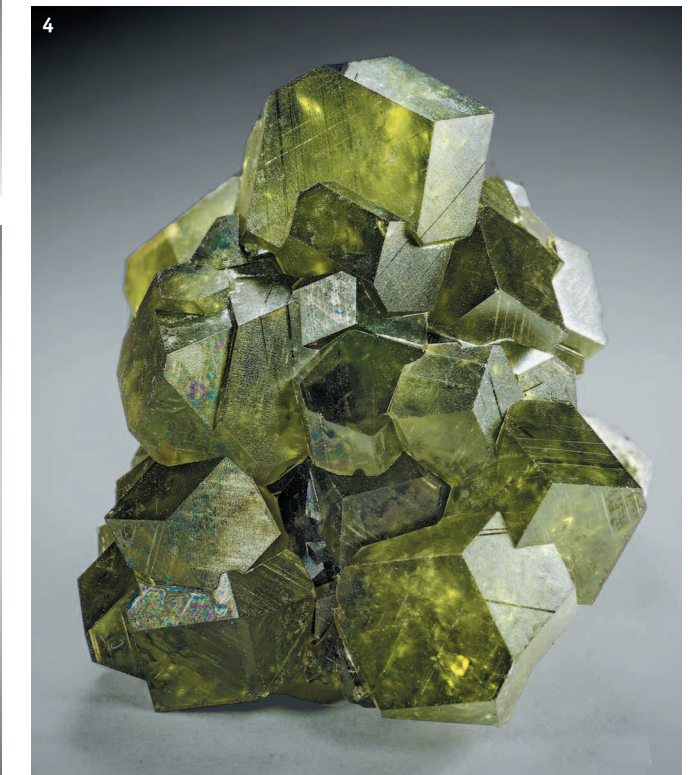
4. Crystal cluster of **andradite**. 2.5 cm wide.

5. **Andradite** crystal. 2 cm wide.

6. **Andradite** crystal. 1 cm by crystal edge.

7. Crystal cluster of **andradite**. 4 cm wide.

Photos 4–7: Bor open pit, Dalnegorsk Borosilicate deposit, Primorsky Krai, Russia. Specimens: Alexey G. Glotov. Photo: Boris Z. Kantor.



webmineral.ru (2018) <http://webmineral.ru/deposits/gallery.php?id=907&filter=2131>

mindat.org (2018) https://www.mindat.org/photoscroll.php?frm_id=pscroll&cform_is_valid=1&searchbox=grossular+from+Bor+Pit