

METAL AND MINERAL DEPOSITS OF THE ARCTIC



The Database The database for metals follows the FODD model which can be viewed and explained using the sources listed above. Legal requirements and restrictions as well as the level of publicly available knowledge lead to unavoidable variations in the availability of data on specific deposits. Data on reserves in the deposits in Russia and on the plans for their extraction are based on official reports to central authorities: these data have been made available to the project. Data on past production in Russia are not publicly available so that it is not possible to document the total original tonnage and grade of deposits which have been in production for many years. The FODD classification "Potentially Large" exists in order to classify deposits for which the available geological information clearly indicates the overall size of a deposit though without detailed information on tonnage and grades. This category is also used for deposits from which detailed information is publicly available only for specific intersections but for which more general information gives clear indications of a major tonnage. Diamond deposits in production and other large/very large deposits are included in a simplified FODD structure. The ProMine classification (in carats/deposit) was used and the "cut-off" is 10 million carats. Hydrothermal vents and deposits at the North Atlantic Ridge are shown, but not classified, as their grades and tonnages are not known. Most of the data are taken from the InterRidge Vents Database (ver.3.3):

The Legend The legend for deposit information is broadly based on that used in the FODD maps, with the addition of symbols for hydrothermal fields and diamond deposits. Aluminium is included as a base metal in this legend because of the extensive mining operations in bauxite in Russia and because of the assessment of major kyanite deposits on the Kola Peninsula as important potential sources of alumina in Russia.

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Compilers of the database: USGS : Frederic Wilson GSC : Lesley Chorlton, Christopher Harrison GEUS : Jochen Kolb, Frands Schijeth, Símun Olsen,Lars L. Sørensen NGU : Terje Bjerkgård, Jan-Sverre Sandstad SGU : Anders Hallberg GTK : Jouni Vuollo, Taina Eloranta, Pasi Eilu VSEGEI : Artem Terekhov, Anatoly Molchanov, Vitaly Shatov

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