

## MAGNETIC PARTICLES OF THE SPACE AND ANTHROPOGENOUS ORIGIN FROM SEDIMENTS OF LAKE B.LOZHKA (NOVOSIBIRSK AREA)

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Detailed archives of space and anthropogenous events are adjournment of lakes.

Lake B.LoZhka has involved with high concentration around of it the monuments [1] covering about 7 thousand years.

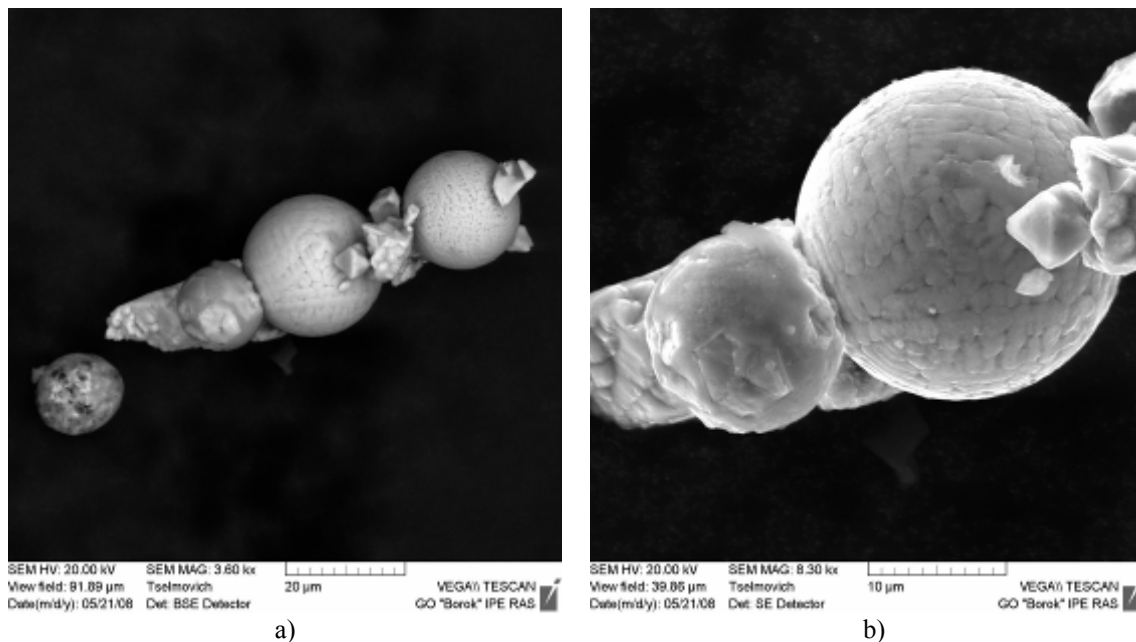
The Lake B.LoZhka it is located at territory rivers Om and Tartasa (Vengerovsky area NSO). In the central part of lake there was made a chink (N55.67 E76.79), opening ground and spreading adjournment up to depth 360 sm. Spreading breed - the dense sand similar to integumentary accumulation of environmental territory [2]. On a core are executed palinology and petromagnetic researches, the common course of natural changes is characterized and events, connected with activity of the ancient person are allocated. These researches were added with us microprobe investigations of magnetic microparticles with the purpose of studying from structure and morphology.

In result of microprobe researches in all investigated layers were found out background magnetite space balls (fig. 1, fig.3) [3]. However in the top part of a column (layers 1-12) were found magnetic balls with other morphology and structure - ferriferous aluminosilicates balls with magnetite (fig.1, fig.2). These balls could arise as a result of work of lake of metallurgical manufacture existing on a coast - activity of inhabitants of a settlement genitals stage of potchevash cultures. Thus, in a deposit the horizon marked ferriferous aluminosilicates with balls with structures of decay plagioclase and piroxenes with nano - and microdimensional germinations of magnetite, describing time of the beginning of work of ancient metallurgical manufacture was found.

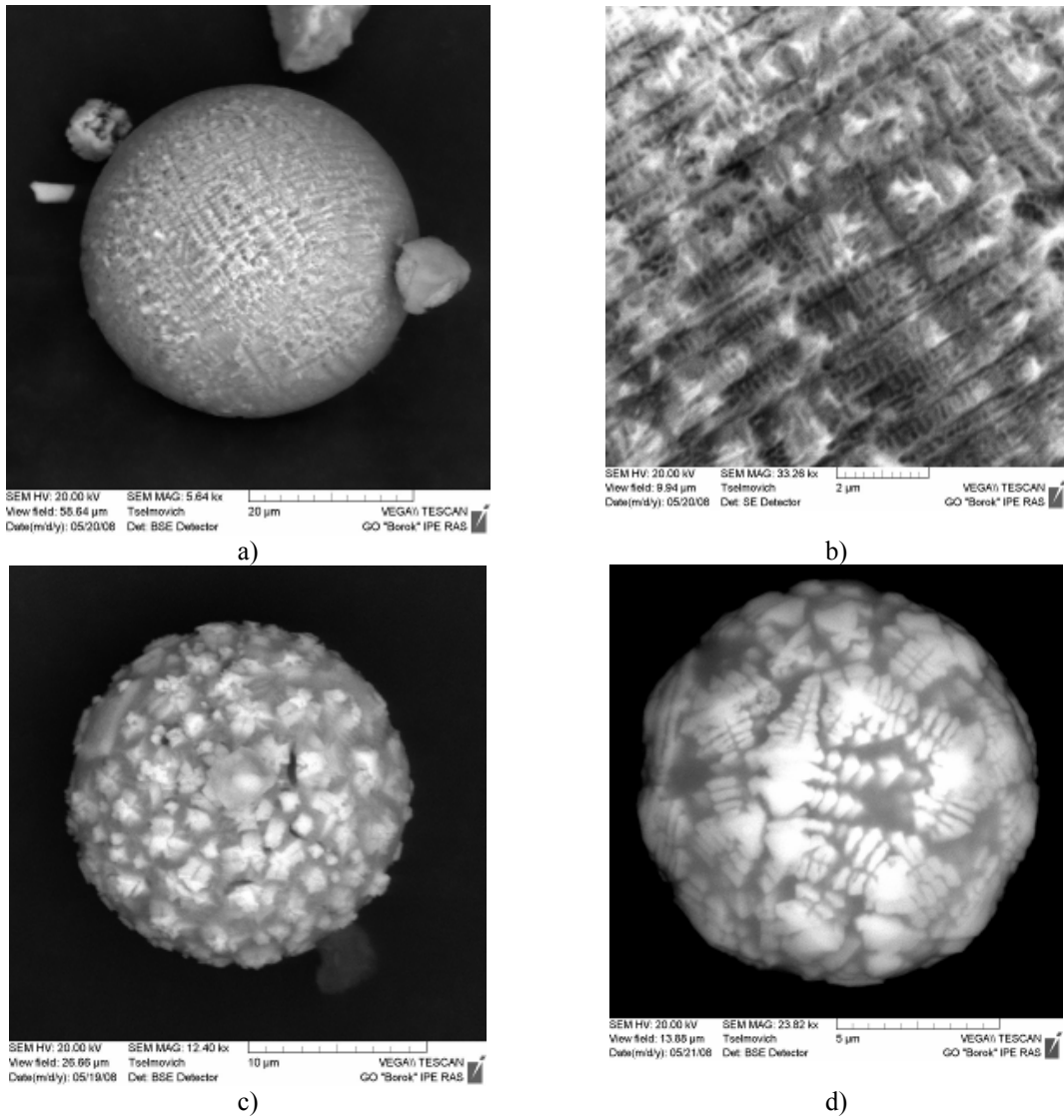
This conclusion is essentially important for archeological reconstruction.

The layer 13 allocated under magnetic characteristics, contains a plenty of particles of the space origin similar described in [3]. A plenty of space balls, particles of native iron, awaruite  $Ni_3Fe$  is found. These particles can be related to micrometeorites. Probably, they were satellites of impact events.

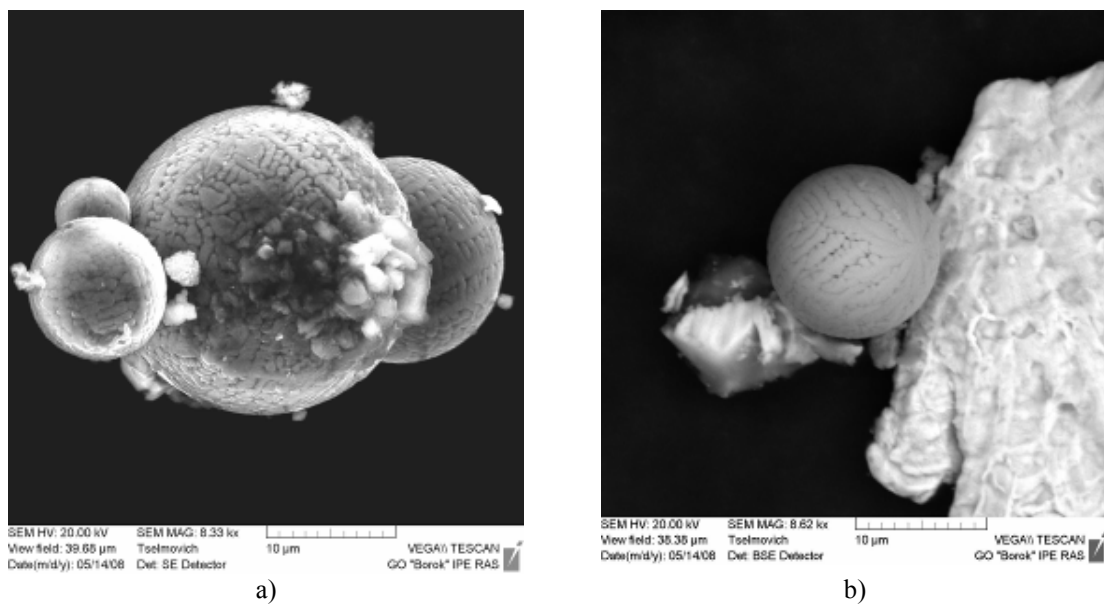
Thus, by results of microprobe researches of deposits of the lake B.LoZhka was possible to allocate two types of layers containing magnetic particles - markers of metallurgical manufacture and a layer containing micrometeorites (it is possible, impact satellites).



**Fig.1, a, b,** (b - fragment of a). Metallurgical (fine at the left) and space balls



**Fig.2, a, b** (b fragment a),c,d, - structures of pyroxenes decay (with magnetite) in metallurgical balls. A layer 3



**Fig.3.** Space balls (a, b) and a particle of iron (b, on the right) from a layer 13 with a space dust

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