

Kryuchenko N.O., Zhovinsky E.Ya., Pappariga P.S. **Geoenvironmental snow cover monitoring of subalpine and alpine altitudinal belts Carpathian biosphere reserve.** Analyzed the content of trace elements in snow mountain peaks Montenegrin, Uholka-Shyrokoluzhansky, Kuzy-Tribushanskogo and Svydovets reserve area of the Carpathian Biosphere Reserve (CBR). Determine the background content of trace elements, their spatial distribution is established and conducted monitoring studies. The content of Cu, Mn, Cr, Cd, Pb, Co, Ni, As in snow mountain peaks less MPC in the tens and hundreds of times, only the zinc content exceeds MPC ten times, and increase the content is in the direction – from Uholka -Shyrokoluzhanskogo (97,94 ppb) to the Montenegrin array (203,88 ppb). Despite the fact that the wind direction – from the southeast to the northwest, you can prevent the pollution of snow cover from Romania. In the analysis of the accumulation of trace elements in snow mountain virshin different altitudinal zones found that only the contents of chromium and zinc 2-fold greater in the subalpine zone than in middle. For other metals no trends of their distribution by altitude zones were found. When conducting monitoring studies of trace elements in snow (mountain – Goverla, Petros, Menchul, Szczawna, Scherban) established upward trend of lead from 2010 to 2013, and to reduce the cadmium. Increased attention should be paid to the content of the zinc content of which exceeds the MPC by 10 times in 2011 and 2013 –Petros, mountain Scherban and the source of his income.

Key words: snow cover, Carpathian Biosphere Reserve, trace elements, monitoring.