In July of each year (2011-2015), we collected samples of new vascular plant growth (current year growth leaves of Eriophorum vaginatum, Chamaedaphne calyculata, Andromeda polifolia, Scheuchzeria palustris). We collected current year leaves of Oxycoccos microcarpus, in 2013-2015. We marked individuals from which leaves/needles were collected to avoid resampling in subsequent years. All samples for C and N analysis were sorted for removal of debris, dried for a minimum of 6 days at 55 C, homogenized in a Thomas Wiley Mini-Mill, and analyzed on a Flash EA 1112 Series CN Soil Analyzer.