The interannual variability and rate of change of the total methane content in 2003-2017 are studied in the atmosphere of the zone (45°-65° N, 60°-90° E) of Western Siberia covering almost all the wetland complexes of the region. The retrieval of the gas content was carried out using the regression model constructed by the authors and the data of the AIRS hyperspectrometer of the Aqua satellite. It is established that in each annual cycle for the period considered, the total methane content has winter (January-February) and summer (July-September) peaks. It is shown that during this period the content of methane in the atmosphere increased at a rate of ~ 3.3 ppb/year.