

Yamal Peninsula

Cape Kamenny (68° 28'N, 73°35'E) and Novy port (67°41'E, 72°53'E) are located on the West shore of Ob bay. Be-weekly flask samples measurements were carried out at the stations.

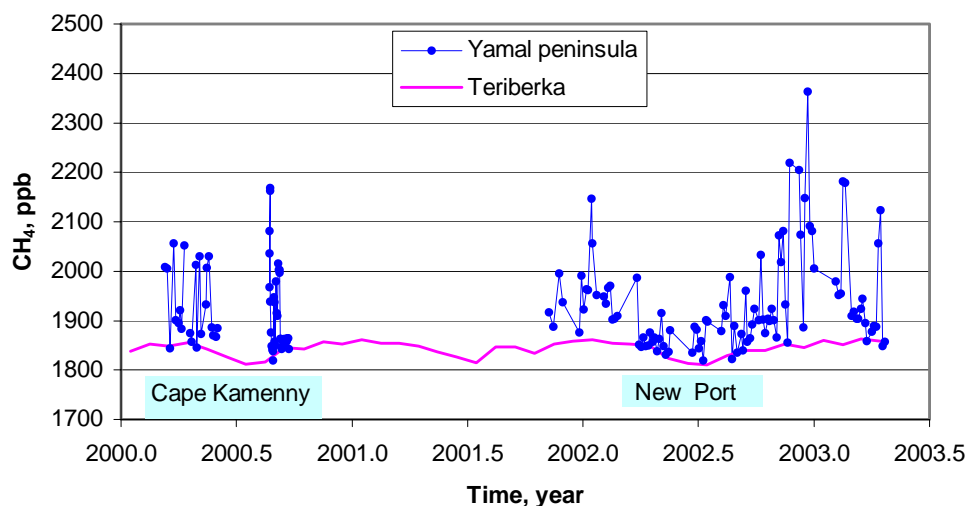


Fig.4. Results of CH₄ concentration measurements at two stations located at Yamal Peninsula relative to the Teriberka background level

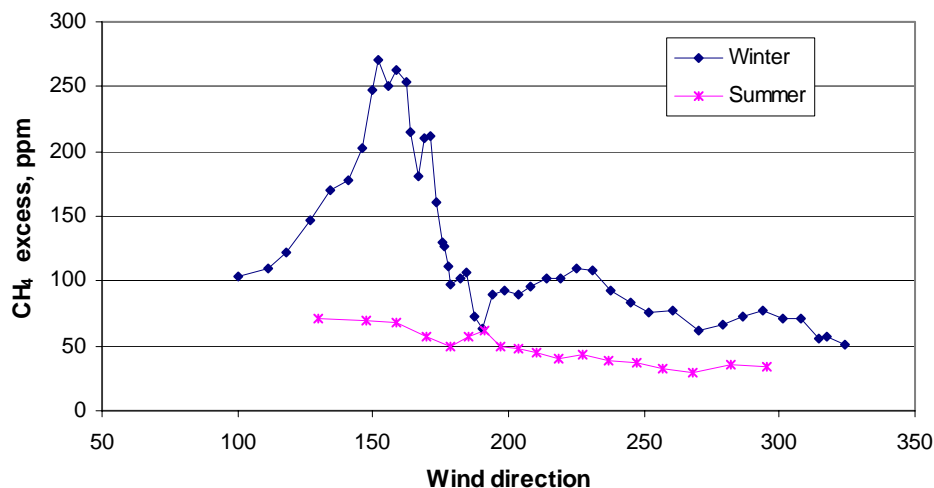


Fig.5. Running averaged (60 deg) CH₄ excess in Novy Port depending on wind direction

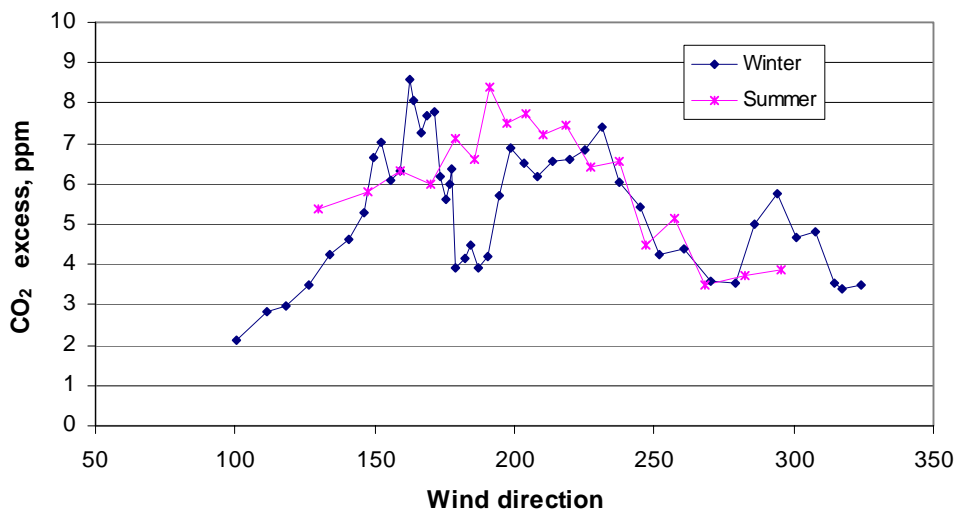


Fig.6. Running averaged (60 deg) CO₂ excess in Novy Port depending on wind direction

STD of mean excess is about 100 ppb for winter conditions and 50ppb for summer conditions. Winter and summer conditions were extracted conventionally as follows: temperature is lower than -10°C and over zero. Sector of gas fields extends in the direction range from 200 to 310 compass degrees. Teriberka data were used as the background level for concentration excess calculation for Yamal Peninsula