



An attempt to compare variations of carbon stable isotopes composition in two replicate cores from a Baltic bog in N Poland

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Two one-meter long monolith cores were taken from Stążki mire. Stążki mire is well preserved Baltic type raised bog with a very small evidence of exploitation. Stable isotopic composition of carbon (^{13}C) was investigated in the bulk organic matter of Sphagnum. One centimetre resolution sampling was chosen for the investigation. Only carefully selected, leaf-free Sphagnum stems were collected for the study. Isotopic composition was determined using elemental analyser coupled to isotopic ratio mass spectrometer. For the correlation purposes age-depth models were established for both monoliths. Radiocarbon dating and ^{210}Pb dating results were used to obtain the age-depth model for one monolith. Age-depth model for the second monolith was based on radiocarbon dating only. Both cores covered the last 1200 years of Stążki mire history. We will present a detailed comparison of correlate isotopic signal from Sphagnum in both cores.