

SEASONAL VARIATIONS OF ^{13}C AND ^{14}C IN SOIL CO_2

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ABSTRACT

Long-term measurements of carbon-13 and carbon-14 content in soil CO_2 are presented. Temporal ^{14}C and ^{13}C variations with period of one year has been observed and discussed in two soil levels (exhaled CO_2 and CO_2 in depth 0,8 m). Analyses shows that there are significant differences in phase shifts of variations and in fractionation rates at different soil levels.

Key words: ^{13}C , ^{14}C , soil, atmosphere, CO_2 , variations