

EGU2020-13557

<https://doi.org/10.5194/egusphere-egu2020-13557>

EGU General Assembly 2020

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New data from the 40 year old Dye3 core

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The Dye3 core was drilled at Dye3 (65°11'N, 43°50'W) in 1979 – 1981. The core has been analyzed for numerous components over the last decades. We measured remaining sections, the Younger Dryas and a larger portion of the last glacial, in a continuous flow setup in fall 2019. Here we focus on gas measurements. We measured methane, $\delta^{15}\text{N}$, $\delta^{40}\text{Ar}$, and the elemental ratio of Ar and N_2 . We present the continuous flow setup for measuring those components in parallel and first results with a focus on the exact timing of changes in methane and $\delta^{15}\text{N}$ and $\delta^{40}\text{Ar}$ at the Younger Dryas and Dansgaard-Oeschger transitions.