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New data from the 40 year old Dye3 core

Thomas Blunier¹, Janani Venkatesh¹, David Aaron Soestmeyer¹, Jesper Baldtzer Liisberg¹, Rachael Rhodes², James Andrew Menking³, Jeffrey P. Severinghaus⁴, Meg Harlan¹, Helle Astrid Kjær¹, and Paul Vallelonga¹

¹University of Copenhagen, Niels Bohr Institute, Physics of Ice, Climate and Earth, Copenhagen, Denmark
(blunier@nbi.ku.dk)

²University of Cambridge, Department of Earth Sciences, UK

³College of Earth, Ocean, and Atmospheric Sciences, Oregon State University, USA

⁴Scripps Institution of Oceanography, USA

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.