Figure S1. Calcium to Sodium ratio in the Samples Between 26 - 40 ka BP. Sea water ratio for Ca\(^{2+}\)/Na\(^+\) and the average ratio in the samples are shown using black dashed and plane lines, respectively.
Figure S2. Plot of water isotopes (proxy for temperature) (a, b) and nssCa\textsuperscript{2+} fluxes (c, d) in EPICA Dronning Maud Land (EDML) and EDC from 26 - 40 ka BP (Fischer et al., 2007a). AIM events are shown in blue bars and are numbered at the bottom. Events where nssCa\textsuperscript{2+} flux shows centennial-scale peaks within the millennial-scale drop are indicated using black circles.