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**THE USE OF THE ECM METHOD AS AN INDICATOR OF HIGH DUST CONCENTRATIONS
IN POLAR ICE CORES**

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Abstract : ECM*, pH and dust concentration data obtained on the Dye 3, Camp Century and Byrd ice cores suggest, that the ECM data may be used to indicate high dust concentrations in polar ice cores i.e. higher than approx. 300 $\mu\text{g}/\text{kg}$ ice. The dust concentration can only be inferred in a semi-quantitative way as the calibration curve shows a high scatter, especially for the internal 300-500 $\mu\text{g}/\text{kg}$. Various data from the 3 cores will be presented in order to illustrate the potential and limitations.

*ECM : Electrical Conductivity Method.