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To cite this version:

C. Hammer. THE USE OF THE ECM METHOD AS AN INDICATOR OF HIGH DUST CONCENTRATIONS IN POLAR ICE CORES. Journal de Physique Colloques, 1987, 48 (C1), pp.C1-697-C1-697. 10.1051/jphyscol:19871113 . jpa-00226255

HAL Id: jpa-00226255

https://hal.science/jpa-00226255v1

Submitted on 4 Feb 2008

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JOURNAL DE PHYSIQUE
Colloque C1, supplément au n° 3, Tome 48, mars 1987

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 μg/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 μg/kg. Various data from the 3 cores will be presented in order to illustrate the potential and limitations.

*ECM : Electrical Conductivity Method.

Article published online by EDP Sciences and available at http://dx.doi.org/10.1051/jphyscol:19871113