Plate 1a Nitrate and Conductivity Record, GISP2-H-Part I

Dreschhoff and Zeller
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Plate 1b Nitrate and Conductivity Record, GISP2-H-Part II

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Plates Ia and Ib

Micro-resolution records of simultaneous nitrate concentrations in relative units (black curve) and liquid conductivity(grey curve) from the Central Greenland Ice Sheet. The x-axis is proportional to the true depth below the surface (122m) and has not been adjusted for compaction. Nitrate background displays a prominent seasonal cycle. The nitrate anomalies are apparently caused in most cases by individual solar particle events (dates have been marked in black). Black arrows at the bottom of the graph indicate times of sunspot maxima (up) and sunspot minima (down). The numbers (black) at the top of the graph indicate the approximate summer peaks of the years of the most recent maximum in solar activity. Asterisks next to major peaks indicate that these anomalies are part of the ongoing evaluation program. Areas of gray shading represent portions of the core resampled for confirmation. Absorbance units (100 X 10^{-4}) convert to 20.4 µg/l NO_3-N or 90.3 ng/g NO_3. Anomalous conductivity peaks indicate the years of specific volcanic eruptions.