Micro-resolution records of simultaneous nitrate concentrations (relative units) and liquid conductivity (gray curve) from the Central Greenland Ice Sheet. The x-axis is proportional to the true depth below the surface (122 m) and has not been adjusted for compaction. Nitrate background displays a prominent seasonal cycle. The anomalously high nitrate concentrations are caused by individual solar particle events (spikes) that have been marked (black). Black arrows at the bottom of the graph indicate times of sunspot maxima (up) and sunspot minima (down). The numbers 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 ($10^{-4}$) convert to 0.4 μg/l NO$_3$. Anomalous conductivity peaks indicate the years of specific volcanic eruptions.