

IC, ICPMS and Water Isotope Measurements From the 2002 and 2003 US ITASE Traverses

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A collection of 100 surface snow samples collected approximately every 30 km along the ITASE-02 Byrd to Pole and ITASE-03 LGT traverses. Each sample is analyzed for 35 different trace elements, 8 major ions and water isotopic content. IC and water isotope measurements taken from ice core tops along the same route are used to verify the seasonality of the surface snow samples and thus reveal the spatial distribution of typical seasonal snow chemical concentrations over a large area of inland Antarctica.