## Past 320 k-year wind speed reconstructed by analysis of a deep ice core from Dome Fuji, Antarctica

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Relative wind speed during past 320 k-years was reconstructed on the basis of dust flux and the size distribution of a deep ice core from Dome Fuji, Antarctica. The average dust flux in each 5 k-years is proportional to the exposed area of continental shelf due to the sea level change except last two stadials when dust flux extraordinarily increased. Assuming that the increase was due to the increase of wind speed, we estimate the wind speed using such relation as dust generation flux is proportional to the third power of wind speed. Using good relation between the reconstructed relative wind speed and large particle ratio during past 140 k-years, we could extend the reconstruction of relative wind speed to the 320 k-year B.P.