



Seasonal observations of HONO at Halley, Antarctica during CHABLIS

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HONO data were recorded during the CHABLIS field campaign carried out from April 2004-January 2005 at Halley, Antarctica. The monthly mean value for HONO of 10.1 ± 6.3 pptv in January, 2005 is significantly higher than that of 0.8 ± 2.0 pptv recorded during winter in June 2004. These data, together with those of seasonal snow-depth profiles of NO_3^- and NO_2^- appear to be consistent with the formation of HONO via photo-reduction of NO_3^- followed by acidification of the NO_2^- photo-product.