Supplement of

Impacts of post-depositional processing on nitrate isotopes in the snow and the overlying atmosphere at Summit, Greenland

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| Year   | Month | type               | Conc (ng m\(^{-3}\) STP\(^a\)) | Reference                      |
|--------|-------|--------------------|---------------------------------|--------------------------------|
| 1991   | 7-8   | denuder            | 38 ± 53                         | Silvente and Legrand, 1993     |
| 1993   | 6-7   | Mist chamber       | 55 ± 37                         | Dibb et al., 1994              |
| 1993   | 5-7   | Teflon Zefluor filter | 26 ± 2.9                     | Bergin et al., 1995            |
| 1994   | 5-8   | Mist chamber       | 32 ± 37                         | Dibb et al., 1994              |
| 1995   | 4-7   | Mist chamber       | 27 ± 32                         | Dibb et al., 1998              |
| 2001-2002 | annual | glass fiber filters | 19.9 ± 19.1                  | This work                      |
| 2006   | 4-6   | Mist chamber       | 192 and 217\(^b\)             | Jarvis et al., 2009            |
| 2010   | 5-6   | Mist chamber       | 32                              | Fibiger et al., 2016           |
| 2011   | 5-6   | Mist chamber       | 42                              | Fibiger et al., 2016           |

\(^a\)Unit conversion from ng m\(^{-3}\) STP to pptv: 1 ng m\(^{-3}\) STP = 0.36 pptv.

\(^b\)Reported values represent the average in April and May/June 2006 according to Jarvis et al. (2009).

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