

List of Publications

Johan Arvelius

Monographs

Arvelius, Johan. *Calibration and quality assessment of DESCARTES —grabsampler for stratospheric tracers.* Ph.D. thesis, Swedish Institute of Space Physics/Umeå University, Kiruna, **2005**. URL http://documents.irf.se/get_document.php?group=Administration&docid=465.

Original papers in refereed journals

Rao, T. N., **J. Arvelius** and S. Kirkwood. Climatology of tropopause folds over a european arctic station – Esrang. *J. Geophys. Res.*, vol. 113:D00B03, **2008**. doi:10.1029/2007JD009638.

Robinson, A. D., G. A. Millard, F. Danis, M. Guirlet, N. R. P. Harris, A. M. Lee, J. D. McIntyre, J. A. Pyle, **J. Arvelius**, S. Dagnesjo, S. Kirkwood, H. Nilsson, D. W. Toohey, T. Deshler, F. Goutail, J-P. Pommereau, J. W. Elkins, F. Moore, E. Ray, U. Schmidt, A. Engel and M. Müller. Ozone loss derived from balloon-borne tracer measurements in the 1999/2000 arctic winter. *Atmos. Chem. Phys.*, vol. 5(5):1423–1436, **2005**. ISSN 1680-7316. SRef-ID:1680-7324/acp/2005-5-1423, URL <http://www.atmos-chem-phys.net/5/1423/2005/acp-5-1423-2005.pdf>.

Hooper, D., **J. Arvelius** and K. Stebel. Retrieval of atmospheric static stability from radar return signal power. *Ann. Geophys.*, vol. 22(11):3781–3788, **2004**. SRef-ID:1432-0576/ag/2004-22-3781, URL <http://www.ann-geophys.net/22/3781/2004/angeo-22-3781-2004.pdf>.

Rao, T. Narayana, **J. Arvelius**, S. Kirkwood and P. von der Gathen. Climatology of ozone in the troposphere and lower stratosphere over the european arctic. *Adv. Space Res.*, vol. 34(4):754–758, **2004**. doi:10.1016/j.asr.2003.05.055.

Rao, T. Narayana, S. Kirkwood, **J. Arvelius**, P. von der Gathen and R. Kivi. Climatology of UTLS ozone and the ratio of ozone and potential vorticity over northern Europe. *J. Geophys. Res.*, vol. 108(D22):4703, **2003**. doi:10.1029/2003JD003860.

Müller, Rolf, Simone Tilmes, Jens-Uwe Groß, Daniel S. McKenna, Melanie Müller, Ulrich Schmidt, Geoffrey C. Toon, Robert A. Stachnik, James J. Margitan, James W. Elkins, **Johan Arvelius** and James M. Russel III. Chlorine activation and chemical ozone loss deduced from HALOE and balloon measurements in the arctic during the winter of 1999–2000. *J. Geophys. Res.*, vol. 108(D5), **2002**. doi:10.1029/2001JD001423.

Editorship

Sandahl, Ingrid and **Johan Arvelius** (eds.). *Proceedings of the 33rd Annual European Meeting on Atmospheric Studies by Optical Methods*, no. 292 in IRF Scientific Report (Swedish Institute of Space Physics), **2008**. ISBN 978-91-977255-1-4. ISSN 0284-1703. URL <http://www.irf.se/publications/proc33AM/proceedings.pdf>.

Articles in conference proceedings

Arvelius, J., S. Roslin, H. Nilsson and S. Kirkwood. Adsorption efficiency of a molecular sieve in low pressure. In *Proceedings of the XX quadrennial ozone symposium* (edited by C. Zerefos), pp. 515–516 (International Ozone Commission), **2004**.

Arvelius, Johan, H. Nilsson, S. Kirkwood, A. Robinson, N. Harris, J. Pyle, O. Morgenstern, F. Goutail and J.-P. Pommereau. Measured tracer profiles from the polar stratosphere covering all seasons 2000. In *Proceedings of the Sixth European workshop on stratospheric ozone* (edited by N. R. P Harris, G. T. Amanatidis and J. G. Levine), no. 79 in Air Pollution Research Report, pp. 217–220 (European Commission), **2002**.