

Civil Aircraft for the Regular Investigation of the atmosphere Based on an Instrument Container

List of publications

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Reviewed Publications:

- Brenninkmeijer C.A.M. et al., CARIBIC - Civil aircraft for global measurement of trace gases and aerosols in the tropopause region, *J. Atmos. Oceanic Technology*, 16, 1373-1383, 1999.
- Dix B., C. Brenninkmeijer, U. Friess, T. Wagner, and U. Platt, A flying laboratory: DOAS measurements as part of the CARIBIC aircraft project, *J. Geophysical Research Abstracts*, Vol. 7, 09139, 2005. [\[pdf\]](#)
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Conference Talks /Posters /Proceedings :

- Adler, S., Hermann, M., and Wiedensohler, A., Pressure- and temperature-dependent counting efficiency of the CPC 7610 operated with FC-43 as working fluid. Presentation at the European Aerosol Conference 2003, Madrid, *J. Aerosol Sci.*, **34** (Suppl. 1), 2003.
- Borchers, R., C.A.M. Brenninkmeijer, A. Jordan, and A. Zahn. Latitudinal distribution of halocarbons in the northern hemisphere derived from aircraft measurements within the project CARIBIC.
- Brenninkmeijer, C.A.M. and Tae Siek Rhee The chemical composition of the SW Asia summer monsoonal jet as observed by repeated CARIBIC aircraft measurements. Invited oral presentation, Joint AGGS Annual Meeting & APHW Second Conference, Singapore, 5-9 July, 2004.
- Brenninkmeijer, C.A.M. A. Zahn, J.Mühle, T.S. Rhee, P.J. Crutzen, S. Penkett, D. Oram, H. Fischer, J. Heintzenberg and P.J.F. van Velthoven, A Study of the Huge S-S.E. Asian Monsonal Methane Plume Based on CARIBIC Aircraft observations. Global Change Open Science Conference, Amsterdam, 10-13 July, 2001.
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- Brenninkmeijer, C.A.M., A. Zahn, P.J. Crutzen, J.Heintzenberg, M.Hermann, H.Fischer, G.Heinrich, P.J. van Velthoven, H.Cuijpers, R.Borchers, and D.Oram, Results and status of the aircraft research project CARIBIC, EUROTRACC 2000.
- Brenninkmeijer, C.A.M., A. Zahn, M. Maiss, P.J. Crutzen, H. Cuijpers, and P.F.J. van Velthoven, The ¹³C, ¹⁴C, and ¹⁸O isotope composition of CO at 10 km between the tropics and the mid-latitudes; results from the CARIBIC project, American Geophysical Union (AGU), fall meeting, San Francisco, 6-10 December, 1998.
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- Rhee T.S., C.A.M. Brenninkmeijer, J. Mühle, P. van Velthoven, H. Fischer, A. Zahn, M. Hermann, D.E. Oram. Rapid Mixing across the Extra-Tropical Tropopause as Observed during a CARIBIC Boeing 767 flight. Poster presentation, SPARC General Assembly, Victoria, British Columbia, Canada, 1-6 August 2004.
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Doctoral theses:

- Giorgos Papaspiropoulos: Studies of Tropospheric and Stratospheric Aerosol using Ion Beam Analysis. Ph.D. thesis. University of Lund, Sweden, 2001.
- Markus Hermann: Development and application of an aerosol measurement system for use on commercial aircraft, Ph. D. thesis, University Leipzig, Germany, 2000.
- Jens Mühle: GC/MS-Meßsystem für Nicht-Methan-Kohlenwasserstoffe - Spurengasuntersuchungen im Tropopausenbereich und in der maritimen Grenzschicht. Dissertation, University of Mainz, Germany, 2002.

Master thesis:

- Adler, S.: Untersuchung der Funktionsfähigkeit von Kondensationspartikelzählern mit FC-43 als Arbeitssubstanz. MSc. Thesis, Westfälische Hochschule Zwickau (FH), Germany, 2003.
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CARIBIC Database:

CERA2 : Peter Zimmermann in cooperation with Modelle & Daten group at Max-Planck-Institute for Meteorology, Hamburg

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Brochure (10 pp) in German and English CARIBIC

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