

[Optics News - The Boulder Atmospheric Observatory and Its Meteorological Research Tower](#) [34K]

Jun 2010

...Optics News Volume 3 Issue 3 Page 14 The **Boulder Atmospheric Observatory** and Its Meteorological Research Tower FREEMAN...2073 KB) Citation FREEMAN F. HALL, "The **Boulder Atmospheric Observatory** and Its Meteorological Research Tower," Optics...

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[Application of sodar to interpret CO₂ and CO profiles and their dependence on boundary layer structure](#)

W Neff / A Andrews / D Wolfe , IOP Conference Series: Earth and Environmental Science, 1 (1), p.012002, May 2008

2. doi:10.1088/1755-1315/1/1/012002

...william.neff@noaa.gov Abstract. The **Boulder Atmospheric Observatory** (BAO) tower was constructed and became...html). Recently, the 300-m tower at the **Boulder Atmospheric Observatory** (BAO) was added to the network (Figure...

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[Recent progress in acoustic tomography of the atmosphere](#)

V E Ostashev / S N Vecherin / D K Wilson / A Ziemann / G H Goedecke , IOP Conference Series: Earth and Environmental Science, 1 (1), p.012008, May 2008

3. doi:10.1088/1755-1315/1/1/012008

...is being built at the **Boulder Atmospheric Observatory** is given. Furthermore...has been built at the **Boulder Atmospheric Observatory**. (b) A speaker tower...built [30,31] at the **Boulder Atmospheric Observatory** located near Boulder...

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[Small-particle dry deposition under high wind speed conditions: Eddy flux measurements at the boulder atmospheric observatory](#)

Sievering, Herman , Atmospheric Environment (1967), 21 (10), p.2179, Jan 1987

4. doi:10.1016/0004-6981(87)90350-7

4...FLUX MEASUREMENTS AT THE **BOULDER ATMOSPHERIC OBSERVATORY** HERMAN SIEVERING* Dept...Sievering (1982) at the **Boulder Atmospheric Observatory** (BAO). Despite the...measurements obtained at the **Boulder Atmospheric Observatory** (BAO) and address the...

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[Atmospheric composition change: Ecosystems–Atmosphere interactions](#)

Fowler, D. / Pilegaard, K. / Sutton, M.A. / Ambus, P. / Raivonen, M. / Duyzer, J. /

5. doi:10.1016/j.atmosenv.2009.07.068

Abstract Ecosystems and the atmosphere: This review describes the state of understanding the processes involved in the exchange of trace gases and aerosols between the earth's

surface and the atmosphere. The gases covered include NO, NO₂, HONO, ...

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[Turbulence velocity spectra dependence on the mean wind at the bottom of a valley](#)

Magnago, Roberto / Moraes, Osvaldo / Acevedo, Otávio , Physica A: Statistical Mechanics and its Applications, 388 (9), p.1908, May 2009

□ doi:10.1016/j.physa.2009.01.022

6. Abstract A spectral analysis of the surface boundary layer turbulence at the bottom of a valley is presented. The spectra were classified according to wind speed, wind direction with respect to the valley axis and stability condition. The results ...

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[Global and direct photosynthetically active radiation parameterizations for clear-sky conditions](#)

Bosch, J.L. / López, G. / Batlles, F.J. , Agricultural and Forest Meteorology, 149 (1), p.146, Jan 2009

□ doi:10.1016/j.agrformet.2008.07.011

7. Abstract Estimation of clear-sky photosynthetically active solar radiation (PAR) is an important first step in calculating this solar spectral band under all sky conditions. This procedure is commonly used to derive incoming solar radiation from ...

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Tanaka, Hiroki / Hiyama, Tetsuya / Kobayashi, Nakako / Yabuki, Hironori / Ishii, Yoshiyuki / Desyatkin, Roman V. / Maximov, Trofim C. / Ohta, Takeshi , Agricultural and Forest Meteorology, 148 (12), p.1954, Dec 2008

□ doi:10.1016/j.agrformet.2008.05.006

8. Abstract To elucidate the energy balance over a forest, seasonal changes in the water and energy exchanges over a young larch forest (E-YL) in eastern Siberia were investigated and compared with the reported characteristics of a mature larch forest ...

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[Strong wind observations in the atmospheric surface layer](#)

Tieleman, Henry W. , Journal of Wind Engineering and Industrial Aerodynamics, 96 (1), p.41, Jan 2008

□ doi:10.1016/j.jweia.2007.03.003

9. ...meteorological towers. Strong surface winds with 20-min mean velocity in excess of 15m/s were observed at the **Boulder Atmospheric Observatory** (BAO) near Boulder, Colorado on September 11, 1978. On Sunday, October 27, 2002, a deep low-pressure...

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[Turbulent flux events in a nearly neutral atmospheric boundary layer](#)

□ 10. Narasimha, R. / Kumar, S. R. / Prabhu, A / Kailas, S.V , Philosophical Transactions of

the Royal Society A: Mathematical, Physical and Engineering Sciences, 365 (1852),
p.841-858, Mar 2007
doi:10.1098/rsta.2006.1949

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[Aerosol dry deposition on vegetative canopies. Part I: Review of present knowledge](#)

Petroff, Alexandre / Mailliat, Alain / Amielh, Muriel / Anselmet, Fabien ,
Atmospheric Environment, 42 (16),
p.3625, May 2008

doi:10.1016/j.atmosenv.2007.09.043

Abstract This paper reviews the present knowledge of aerosol dry deposition, with respect to modelling and experimental aspects. In the first part, special attention is given to the existing mechanistic models, either with an analytical or a ...

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[Field comparison of disjunct and conventional eddy covariance techniques for trace gas flux measurements](#)

Rinne, J. / Douffet, T. / Prigent, Y. / Durand, P. , Environmental Pollution, 152 (3), p.630,
Apr 2008

□ **12.**doi:10.1016/j.envpol.2007.06.063

Abstract A field intercomparison experiment of the disjunct eddy covariance (DEC) and the conventional eddy covariance (EC) techniques was conducted over a grass field. The half-hourly water vapor fluxes measured by the DEC were within the ...

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[Particle fluxes above forests: Observations, methodological considerations and method comparisons](#)

Pryor, S.C. / Larsen, S.E. / Sørensen, L.L. / Barthelmie, R.J. , Environmental Pollution, 152 (3), p.667, Apr 2008

□ **13.**doi:10.1016/j.envpol.2007.06.068

Abstract This paper reports a study designed to test, evaluate and compare micro-meteorological methods for determining the particle number flux above forest canopies. Half-hour average particle number fluxes above a representative broad-leaved ...

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□ [A review of measurement and modelling results of particle atmosphere?surface exchange](#)

14. PRYOR, S. C. / GALLAGHER, M. / SIEVERING, H. / LARSEN, S. E. / BARTHELMIE, R. J. / BIRSAN, F. / NEMITZ, E. / (...) / VESALA, T. , *Tellus B*, 0 (0), p.070807062032001-???, Aug 2007
doi:10.1111/j.1600-0889.2007.00298.x

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15. [Algorithm development for multistatic GNSS radar technology /](#)
Lindgren, Tore, , Jan 2007
...NOAA) for making the data collection at the **Boulder Atmospheric Observatory** possible. The data collec...dynamics), and a data set collected at the **Boulder Atmospheric Observatory** (BAO) outside Boulder, USA, in April...
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Mar 2001
16. ...features of a Colorado cold front *J. Climate Appl. Meteor.* 23 , 1315-1325 Abstract
Data from the NOAA BAO (**Boulder Atmospheric Observatory**) tower and the PROFS (Program for Regional Observing and Forecasting Services) surface mesonet network have...
[http://www.ems.psu.edu/~young/hp/abstract/jcam1984.htm]
[similar results](#)
- [Quantifying the total airborne nitrogen input into agroecosystems in the North China Plain](#)
He, Chun-E. / Liu, Xuejun / Fangmeier, Andreas / Zhang, Fusuo , *Agriculture, Ecosystems & Environment*, 121 (4), p.395, Aug 2007
17. doi:10.1016/j.agee.2006.12.016
Abstract Nitrogen (N) input from atmospheric deposition is a concern in the North China Plain (NCP). To quantify the magnitude of the problem, the total airborne N deposition to agroecosystems in the NCP was quantified using a manual ITNI ...
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- [Measurements of the area averaged vertical heat flux with acoustic tomography](#) [19K]
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18. ...area averaged vertical sensible heat flux with the array for acoustic tomography of the atmosphere at the **Boulder Atmospheric Observatory** (BAO). Background and Importance The vertical sensible heat flux Q_s is one of the most important parameters...
[http://cires.colorado.edu/science/pro/irp/2009/ostashe...]
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19. Jan 2011

...Cycle (program) (IGBP) BAHC-SSC BAHC Scientific Steering Committee BALTEX
Baltic Sea Experiment BAO **Boulder Atmospheric Observatory** BaP benzo[a]pyrene
BaPDE chemically reactive diolepoxides BAPMoN Background Air Pollution
Monitoring...

[<http://cdiac.esd.ornl.gov/pns/acronyms.html>]

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[ATD/RTF Data Report: DASH04](#) [7K]

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- 20. ...Technology Solar Telescope (ATST) at the **Boulder Atmospheric Observatory** (BAO) near Erie, Colorado in January...date]. Advanced Technology Solar Telescope **Boulder Atmospheric Observatory** Last modified: © NCAR/Earth Observing...
[<http://www.eol.ucar.edu/isf/projects/dash04/report.sht...>]

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...Technology Solar Telescope (ATST) at the **Boulder Atmospheric Observatory** (BAO) near Erie, Colorado in January...date]. Advanced Technology Solar Telescope **Boulder Atmospheric Observatory** This page was prepared by Gordon Maclean...

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[NOAA 'Tall Tower' to Track Front Range Carbon Emissions and Air Quality](#) [15K]

Dec 2010

- 22. ...collects those data today. Known as the **Boulder Atmospheric Observatory** (BAO), the steel-scaffold structure...protects. More Information CarbonTracker **Boulder Atmospheric Observatory** The mission of the Earth System Research...
[http://www.oar.noaa.gov/spotlite/2007/spot_talltower.h...]

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Dec 2005

- 23. ...Chimonas, 1993 Blumen et al., 2001 Mahrt et al., 2001). A series of papers based on data from the **Boulder Atmospheric Observatory** (BAO) focussed on interactions between turbulence, gravity waves, and solitary-like waves (Lu et...
[<http://box.mmm.ucar.edu/people/jsun/files/sun-et-al-blm...>]

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- 24. ...1981 Mahrt and Larsen, 1982 Emanuel, 1983 Etling, 1990). A series of papers based on data from the **Boulder Atmospheric Observatory** (BAO) focused on interactions between turbulence and gravity waves (Lu et al., 1983 Finnigan et al...
[<http://box.mmm.ucar.edu/people/jsun/files/sun-et-al-blm...>]

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 25. Phone: 303-492-1143 Fax: 303-492-1149 email: info@cires.colorado.edu
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 26. Phone: 303-492-1143 Fax: 303-492-1149 email: info@cires.colorado.edu
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 ...showing the location of the **Boulder Atmospheric Observatory (BAO)**. Fig. 1.
 27. Map...showing the location of the **Boulder Atmospheric Observatory (BAO)**. a
 resolution...measurements took place at the **Boulder Atmospheric Observatory (BAO)**
 (Hahn, 1981 Kaimal...
 [http://www.atmos-chem-phys.net/7/139/2007/acp-7-139-20...]
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 ...know for... Exam #1 Exam #2 Exam #3 Useful Links... 1. Live weather observations:
 28. Click Here 2. **Boulder Atmospheric Observatory**: Click Here 1. Choosing a topic
 (Assignment 6): Lecture material, Class Reading. Recent publications...
 [http://www.colorado.edu/geography/blanken/GEOG%203601/...]
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- [Comparing Pulsed Doppler LIDAR with SODAR and Direct Measurements for Wind
 Assessment](#) [PDF-2MB]
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 29. A national laboratory of the U.S. Department of Energy Office of Energy Efficiency &
 Renewable Energy National Renewable Energy Laboratory Innovation for Our Energy
 Future Comparing Pulsed Doppler LIDAR with SODAR and Direct Measurements for
 Wind ...
 [http://www.nrel.gov/wind/pdfs/41792.pdf]
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 Jun 2002
 30. ...available through the National Climatic Data Center, Asheville, NC (3) Also designated
 as a BSRN station (4) **Boulder Atmospheric Observatory**, Located near Erie, CO (5)

Earlier data available through the CMDL web site (6) Located at 325 Broadway...
[http://www.nrel.gov/analysis/forum/pdfs/d_rene_p1.pdf]
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31. ...available through the National Climatic Data Center, Asheville, NC (3) Also designated as a BSRN station (4) **Boulder Atmospheric Observatory**, Located near Erie, CO (5) Earlier data available through the CMDL web site (6) Located at 325 Broadway...
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[NTIA-Report-80-40 Fading Statistics on a 23 km Link at 9.6 and 28.8...](#) [PDF-4MB]
Apr 2009

32. ...mechanisms responsible for fading. This paper describes initial fading data on a 22.8 km link from the **Boulder Atmospheric Observatory** (BAO) at Erie, Colorado, to the U.S. Department of Commerce Radio Building in Boulder, Colorado...
[http://www.its.bldrdoc.gov/pub/ntia-rpt/80-40/80-40_oc...]
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33. ...the Haswell, Colorado tower (jointly with NOAA), and a joint aircraft-tower experiment involving the **Boulder Atmospheric Observatory**. He has participated in the National Hail Research Experiment (NHRE), in several mountain lee wave programs...
[<http://box.mmm.ucar.edu/individual/lenschow>]
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[NTIA Report 85-171 Millimeter-Wave Propagation in Moist Air: Model...](#) [PDF-3MB]
Jun 2009

34. NTIA Report 85-171 Millimeter-Wave Propagation in Moist Air: Model Versus Path Data H. J. Liebe K. C. Allen G. R. Hand R. H. Espeland E. J. Violette u.s. DEPARTMENT OF COMMERCE Malcolm Baldrige, Secretary David J.
[http://www.its.bldrdoc.gov/pub/ntia-rpt/85-171/85-171_...]
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[ARM - Acronyms](#) [112K]
Jan 2011

35. ...BAERI Bay Area Environmental Research Institute BAMS Bulletin of the American Meteorological Society BAO **Boulder Atmospheric Observatory** BARFEX Boardman Atmospheric Radiation Flux Experiment BASE Beaufort and Arctic Storms Experiment BATSE1 Biosphere...
[<http://www.arm.gov/about/acronyms>]
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[Developing a Dual-Frequency FMCW Radar to Study Precipitation](#) [15K]

36. May 2010
...Cell_microprocessor Validation of Performance: The developed FMCW radar will be

deployed at the NOAA **Boulder Atmospheric Observatory** (BAO) next to a NOAA owned commercial profiler to evaluate the performance of this inexpensive dual-frequency...

[<http://cires.colorado.edu/science/pro/irp/2008/william...>]

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[Data Report: ATST Site Studies](#) [6K]

Jun 2010

- ...the ISFF data system. ISFF provided some data management support. Other Links
- 37. Initial deployment at the **Boulder Atmospheric Observatory** to compare methods Advanced Technology Solar Telescope Big Bear Solar Observatory Mees Solar Observatory...

[<http://www.eol.ucar.edu/isf/projects/ATST/report.shtml>]

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Mar 2010

- 38. The use of any such equipment is also subject to any policy or guidance by their user agency. 7.1.1 LASERS AND OTHER SYSTEMS THAT OPERATE ABOVE 3000 GHz No authorization is required for the use of frequencies above 3000 GHz.

[http://www.ntia.doc.gov/osmhome/redbook/7_5_10.pdf]

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[ALEX J](#) [14K]

ALEX J / ALEX J. DeCARIA, Mar 2010

- 39. ...Physical Oceanography Thesis: Multi-fractal Analysis of Nocturnal Boundary Layer Time Series from the **Boulder Atmospheric Observatory** B.S. (Magna Cum Laude) 1985 University of Utah, Salt Lake City, UT Major: Meteorology Minor: Physics...

[<http://snowball.millersville.edu/%7Eadecaria/Curriculu...>]

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[Energy events in the atmospheric boundary layer](#) [Word-25K]

May 2008

- 40. ...turbulent bursts at high Reynolds numbers. Utilizing data acquired under conditions of neutral stability at the **Boulder Atmospheric Observatory**, it is found that the 'energy events' so detected are qualitatively similar in many respects to the turbulent...

[http://www.jncasr.ac.in/emu/rnsimha/RN_Website_12may08...]

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[ESRL-CIRES Fellowship Topic: Boundary Layer Effects](#) [12K]

Jan 2011

- 41. ...Measurements This opportunity would be shared between PSD and GMD and focused on the interpretation of the **Boulder Atmospheric Observatory** (BAO) Tall Tower CO2 data and supporting meteorological measurements. The objective would be to support...

[<http://cires.colorado.edu/education/cu/esrl/topics/bou...>]

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- [Atmos. Chem. Phys., 4, 1007–1024, 2004...](#) [PDF-514K]

42. Mar 2010

Atmos. Chem. Phys., 4, 1007–1024, 2004 www.atmos-chem-phys.org/acp/4/1007/ SRef-ID: 1680-7324/acp/2004-4-1007 Atmospheric Chemistry and Physics Gas-particle interactions above a Dutch heathland: II. Concentrations and surface exchange fluxes of atmospheric ...

[<http://www.atmos-chem-phys.net/4/1007/2004/acp-4-1007-...>]

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[Détermination expérimentale de la vitesse de dépôt sec des aérosols submicroniques en milieu naturel : Influence de la ...](#) [PDF-5MB]

Jul 2010

- 43. The lack of experimental data on the dry deposition velocity of particle sizes below 1 μm over rural environments leads to uncertainties regarding models and differences between them, which exceed one order of magnitude.

[http://www.irsn.fr/FR/Larecherche/Formation_recherche/...]

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[Intermittent Turbulence Associated with a Density Current Passage in the Stable Boundary Layer](#) [PDF-3MB]

May 2006

- 44. ...1981 Mahrt and Larsen, 1982 Emanuel, 1983 Etling, 1990). A series of papers based on data from the **Boulder Atmospheric Observatory** (BAO) focused on interactions between turbulence and gravity waves (Lu et al., 1983 Finnigan et al...

[http://www.mmm.ucar.edu/people/burns/files/blm02_v105n...]

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[NCAR/ATD/SSSF - MAPR](#) [9K]

Feb 2000

- 45. ...May, was next to the 300 m tower of the **Boulder Atmospheric Observatory** in Erie, Colorado (Figure 1) .The tower...measurements: Two field deployments, to the **Boulder Atmospheric Observatory** and to the ARM CART site, provided a wealth...

[<http://www.eol.ucar.edu/isf/facilities/mapr/mapr.html>]

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Oct 2010

- 47. ...given communications circuit per second BANSHEE Beam Accelerator for Novel Super High Energy Electron BAO **Boulder Atmospheric Observatory** NOAA BAPMon Baseline Air Pollution Monitoring Network WMO BARC Bhabha Atomic Research Centre India baroclinic...

[<http://www2.ucar.edu/book/export/html/2561>]

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[Remote sensing in wind assessment - North American Windpower](#) [17K]

Dec 2010

- ...operation in April and beginning a product correlation study in October with
48. anemometers at 300 meters at the **Boulder Atmospheric Observatory**." This article appears in the printed version of North American Windpower. For more information visit...

[<http://www.secondwind.com/News/news-sodar-lidar-0109.h...>]

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[Additional information on the measurements of CO, CO2, CH4, and...](#) [ASCII-23K]

Aug 2009

- **50.** Additional information on the measurements of CO, CO2, CH4, and associated carbon, oxygen, and hydrogen isotopes is presented below for each of the three gases. Submitted by Stanley C. Tyler (949-824-2685, styler@uci).

[<http://cdiac.esd.ornl.gov/ftp/db1022/db1022.txt>]

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- 51.** ...site and wish to view the article abstract first, click on the link below. Citation F. F. HALL, "The **Boulder Atmospheric Observatory** and Its Meteorological Research Tower," Optics News 3 , 14-18 (1976) <http://www.opticsinfobase...>

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52. Layer Time Series from the **Boulder Atmospheric Observatory** B.S. (Magna Cum Laude) 1985 University of Utah, Salt Lake City, UT Major: METEOROLOGY Minor: PHYSICS...

[<http://www.atmos.millersville.edu/metall/faculty/decar...>]

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- ...Tomography of the Atmospheric Surface Layer at the **Boulder Atmospheric Observatory** 博尔德气象台对大气表层的声学断层摄影 作者 Vladimir Ostashev...atmospheric surface layer was recently built at the **Boulder Atmospheric Observatory** (BAO). In this paper, the principle of...

[<http://www.abcd.edu.cn/htmlpage/ziliaodaquan/ziliaodaq...>]

[!!"#!#\\$"!#%&!!&'\(\)*+!\)!,-."&/\\$.&,-/... \[PDF-7MB\]](#)

Jan 2011

- 54. [!!"#!#\\$"!#%&!!&'\(\)*+!\)!,-."&/\\$.&,-/0!!!/10!!/%!..!&/!023!..!//!!!!.!!/.3/10/!4536!78!9!///://;;!!!3:0&<:\(<\(\(\)&!5!](#)
Remerciements Je remercie tout d'abord MM.
[http://www.irsn.fr/FR/Larecherche/Formation_recherche/...]
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[A climatology of flow and turbulence atop a tower of 190 metres above London \[PDF-2MB\]](#)

Jun 2010

- 55. Submitted to Boundary-Layer Meteorology 26 September 2009; Accepted 01 June 2010
See www.springerlink.com for official PDF DOI: 10.1007/s10546-010-9516-x
Turbulent flow at 190 m height above London during 2006–2008: a climatology and the applicability ...
[http://www.met.reading.ac.uk/bl_met/papers/Wood/Wood_e...]
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[siteurpublications The main objective of wind resource assessment is... \[PDF-2MB\]](#)

Mar 2010

- 56. ...speeds measured at 50, 100 and 150m at the **Boulder Atmospheric Observatory** from 1 September to 30 November...Location Description BAO Sept–Nov 2008 **Boulder Atmospheric Observatory** Nearby 300m tower Cape Cod May–July 2008...
[<http://www.secondwind.com/PDFdocs/WindTechSummer2009-1...>]
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[Algorithm Development for Multistatic GNSS Radar Technology \[PDF-3MB\]](#)

May 2007

- 57. ...NOAA) for making the data collection at the **Boulder Atmospheric Observatory** possible. The data collec...dynamics), and a data set collected at the **Boulder Atmospheric Observatory** (BAO) outside Boulder, USA, in April...
[<http://epubl.luth.se/1402-1757/2007/29/LTU-LIC-0729-SE...>]
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[LaWhitePoster.ai \[PDF-902K\]](#)

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- 58. ...speeds measured at 50, 100, and 150 m at the **Boulder Atmospheric Observatory** from September to November 2008. The correlation...Location Description BAO Sept–Nov 2008 **Boulder Atmospheric Observatory** Nearby 300 m Tower Cape Cod May–July 2008...
[<http://www.secondwind.com/PDFdocs/LaWhitePoster.pdf>]
[similar results](#)

[tmp-706 \[PDF-4MB\]](#)

May 2004

- 59. U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration Washington, D.C. 20230 National Oceanic and Atmospheric Administration NOAA's Integrated Environmental Observation and Data Management

System February 2004 Version 3.2 Version 3.
[http://www.aoml.noaa.gov/hrd/data/NOAA_Obs_Doc_v3.2-1...]
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May 2008

- ...Time (sec) Angle of arrival (μ rad) Averaging time = 5 sec Horizontal Vertical **Boulder**
60. Atmospheric Observatory, September, 2006 **Boulder Atmospheric Observatory**,
September, 2006 Sequence of Sequence of snapshots snapshots of single light of single
light 30...

[<http://www.image.ucar.edu/public/TOY/2008/focus3/Prese...>]

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Nov 2001

Cooperative Institute for Research in Environmental Sciences Annual Report NOAA
Cooperative Agreement NA67RJ0153 October 2001 Susan K. Avery, Director Paul D.

[http://cires.colorado.edu/pubs/admin/annual/CIRES_Annu...]

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[Implementing the Recommendations of the White House Science Council's Federal
Laboratory Review Panel](#) [PDF-5MB]

Oct 2010

- **62. CONTENTS** Department of Agriculture
..... 1 Department of Commerce (National Bureau
of Standards, National Oceanic and Atmospheric ...

[http://www.sandia.gov/LDRD/PDF/Status_Vol2.pdf]

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[Chapter 2](#) [PDF-6MB]

Feb 2009

- **63.** 2. What makes it go? Copyright 2009, David A. Randall The Earth's radiation budget: An
"upper boundary condition" on the general circulation Radiation is (almost) the only
mechanism by which the Earth can exchange energy with the rest of the Universe.

[<http://kiwi.atmos.colostate.edu/group/dave/at605pdf/Ch...>]

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Nov 2010

- **64.** ...outside Boulder, USA, in April, 2006 (high altitude, low dynamics), and a data set
collected at the **Boulder Atmospheric Observatory** (BAO) outside Boulder, USA, in
April, 2006 (low altitude, stationary). Information om publikationen...

[<http://www.ltu.se/forskning/1.16009?pureId=155421&pure...>]

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- **65.** Nov 2010

...outside Boulder, USA, in April, 2006 (high altitude, low dynamics), and a data set

collected at the **Boulder Atmospheric Observatory** (BAO) outside Boulder, USA, in April, 2006 (low altitude, stationary). Publication information Proceedings...
[<http://www.ltu.se/forskning/1.16009?l=en&pureId=155421...>]

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[Climate Processes Research Group \(David Noone at University of Colorado\)](#) [11K]

Nov 2010

- 66. ...and analyze the stable isotope composition of water vapor and precipitation, primarily at the 300 meter **Boulder Atmospheric Observatory** tower. The measurements will be made using an optical measurement technology which has only recently become...
[<http://climate.colorado.edu/research/BAO>]

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[Size-resolved particle deposition velocities of sub-100nm diameter particles over a forest](#)

Pryor, S.C. , Atmospheric Environment, 40 (32), p.6192, Oct 2006

doi:10.1016/j.atmosenv.2006.04.066

- 67. Abstract Despite their importance to accurate prediction of the particle ensemble and associated impacts, few empirical studies have attempted to quantify the dependence of deposition velocities (v_d) on friction velocity (u^*) and particle diameter ...

Published journal article available from [ScienceDirect](#)

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Aug 2006

- 68. Science Plan and Implementation Strategy The Surface Ocean – Lower Atmosphere Study IGBP Report 50 Front Cover Image A massive sandstorm blowing off the northwest African desert has blanketed hundreds of thousands of square miles of the eastern Atlantic ...

[<http://www.igbp.kva.se/documents/resources/report-50.p...>]

[similar results](#)

[Stably stratified atmospheric boundary layer: study trough large-eddy simulations, mesoscale modelling and observations](#)

Jiménez Cortés, Maria Antònia , Dec 2005

- 69. **RESUM** <p>La capa límit atmosfèrica és làrea directament influenciada per la presència de la superfície de la terra i la seva alçada és duns centenars de metres a uns pocs quilòmetres. Durant el vespre, el refredament radiatiu estratifica ...

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[UNIVERSITÀ DEGLI STUDI DELL'AQUILA FACOLTÀ DI INGEGNERIA Prof. Piero...](#) [PDF-73K]

Dec 2009

- 70. ...1982. P. Ciotti, A. Silbermann, D. Solimini and E. R. Westwater, 'A radiometric experiment at the **Boulder Atmospheric Observatory**', Proc. of the IEEE/URSI Intern.Symp., Albuquerque, p. 145, May 1982. P. Basili, P. Ciotti...

[http://www.ing.univaq.it/docenti/curriculum_pdf/122.pd...]

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[Facoltà di Ingegneria](#) [123K]

May 2010

71. ...1982. P. Ciotti, A. Silbermann, D. Solimini and E. R. Westwater, "A radiometric experiment at the **Boulder Atmospheric Observatory**", Proc. of the IEEE/URSI Intern. Symp., Albuquerque, p. 145, May 1982. P. Basili, P. Ciotti, G...
[http://www.ing.univaq.it/personale/scheda_personale.ph...]
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[2004 ATD ASR - Facility Notes ISFF](#) [4K]

Dec 2004

72. ...through the atmosphere. Five sonic anemometer/thermometers were deployed up to a height of 100m on NOAA's **Boulder Atmospheric Observatory** (BAO) tower. The raw data were archived to allow computation of temperature power spectra and thus structure...
[http://www.asr.ucar.edu/2004/ATD/fn_isff.html]
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Dec 2010

73. Abstract: A theoretical analysis of a low power Gaussian field propagating in unbiased self-defocussing photorefractive media that includes both real and imaginary components of the intensity-dependent refractive index is presented.
[<http://www.journaltoCs.hw.ac.uk/index.php?action=brows...>]
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Oct 2010

74. ...given communications circuit per second BANSHEE Beam Accelerator for Novel Super High Energy Electron BAO **Boulder Atmospheric Observatory** NOAA BAPMon Baseline Air Pollution Monitoring Network WMO BARC Bhabha Atomic Research Centre India baroclinic...
[<http://www2.ucar.edu/acronyms/b>]
[similar results](#)

[boun1713.dvi](#) [PDF-248K]

Jan 2003

75. S.A. 2 Cooperative Institute for Research in Environmental Sciences (CIRES), University of Colorado, Boulder, Colorado 80309, U.S.A. 3 U. S. Air Force Research Laboratory/DEBA, 3550 Aberdeen St., Kirtland Air Force Base, New Mexico 87117-5776, U.S.A.
[<http://www.ecs.umass.edu/ece/muschinski/My%20journal%2...>]
[similar results](#)

[Ç@ÇÌÇÈ](#) [PDF-61K]

Mar 2008

76. , 1987, The Big Smoke : A history of air pollution in London since medieval times, Methuen Company Ltd. (6) Evelyn, J., 1772 (原著は1661) , Fumifugium: or, The inconvenience of the aer, and smoake of London dissipated. Together with some remedies humbly ...

[<http://criepi.denken.or.jp/research/review/No38/data.p...>]

[similar results](#)

[C@CICÉ](#) [PDF-63K]

Mar 2008

- 77. ...system, Journal of the Acoustical Society of America, 55, 334-338. (23) Kaimal, J.C. and Gaynor, J. E., 1983, The **Boulder atmospheric observatory**, Journal of Applied Meteorology, 22, 863-880. (24) Kaimal, J. C., Baynton, H. W. and Gaynor...
[<http://criepi.denken.or.jp/research/review/No38/epilog...>]

[similar results](#)

[C:PM_FINESALITERATU.PDF](#) [PDF-49K]

Apr 1999

- 78. ...Upper-air and surface measurements at seven sites (Brighton, Front Range Airport, Fort Morgan, Evans, **Boulder Atmospheric Observatory** Tower [BAO], Longmont, and Welby). In addition, 10 upper-air 915-MHZ wind and RASS measurement...
[<http://capita.wustl.edu/PMFine/Workgroup/SourceAttribu...>]

[similar results](#)

[Revista Brasileira de Meteorologia - Análise espectral do vento no Centro de Lançamento de Alcântara \(CLA\)](#) [72K]

Nov 2010

- 79. Instituto de Aeronáutica e Espaço, Divisão de Ciências Atmosféricas (IAE/ACA), São José dos Campos. SP. roberto_magnago@yahoo.com.br; gfish@iae.cta.br
IIUniversidade Federal de Santa Maria (UFSM), Santa Maria, RS. ...
[http://www.scielo.br/scielo.php?script=sci_arttext&pid...]

[similar results](#)

[ASR 1996 -- ATD/Research Aviation Facility](#) [31K]

May 1998

- 80. The mission of the Research Aviation Facility (RAF) is to develop and operate instrumented research aircraft for the atmospheric science community at a level of sophistication and operational complexity not generally available from university-based ...
[http://www.eol.ucar.edu/dir_off/ASR/FY1996/asr96_ATDRA...]

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[FY 1992 PUBLICATIONS](#) [PDF-504K]

Aug 2008

- 81. Air Resources Laboratory Publications – 1991-2007 1991 ACKERMANN, G.R. Data base management strategies for large field studies. Proceedings, 84th Annual Meeting of the Air & Waste Management Association, Vancouver, B.C., June 16-25. Air & Waste Management ...
[<http://www.arl.noaa.gov/documents/pubs/FY1991-2007.pdf>]

[similar results](#)

[C:\Wp\RPTS&PRO\Publicat\95FY](#) [PDF-36K]

Mar 2008

- 82. ...TEMPLEMAN, B.D., G.H. CRESCENTI, and J.E. GAYNOR. Ground-based remote

- sensor QA/QC at the **Boulder Atmospheric Observatory**. Proceedings, 7th International Symposium on Acoustic Remote Sensing, Boulder CO, October 3–7, 1994...
[<http://www.arl.noaa.gov/documents/pubs/FY1995.pdf>]
[similar results](#)
- [PowerPoint Presentation](#) [PPT-14MB]
May 2008
83. ...fluctuations) Horse Farm, Amherst, MA, 19 June, 2005 “Seeing” the ground cooling after sunset **Boulder Atmospheric Observatory**, September, 2006 Sequence of snapshots of single light 30 frames / s Cheon, Y., V. Hohreiter, M. Behn, and...
[<http://www.image.ucar.edu/public/TOY/2008/focus3/Prese...>]
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84. ...Bedard AJ Jr, Finnigan JJ. 1989. A climatology of gravity waves and other coherent disturbances at the **Boulder Atmospheric Observatory** during March-April 1984. J. Atmos. Sci. 46: 303-329. Finnigan JJ, Bradley EF. 1989. Wind flow...
[http://www.csiro.edu.au/people/John.Finnigan--ci_pubHi...]
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Dec 1997
85. ...measurements was collected during the PROWS field experiment. S-Pol was located at the Eastlake site south of the **Boulder Atmospheric Observatory** (BAO) tower. A coherent source was placed on top of the tower and the antenna was scanned for recording...
[http://www.eol.ucar.edu/dir_off/ASR/FY1997/asr97_RSf.h...]
[similar results](#)
- [Reconstruction of turbulent fields](#) [PDF-12K]
May 2008
86. ...experiments carried out at the University of Leipzig, Germany. A new, 3D tomography array has been constructed **Boulder Atmospheric Observatory** and became operational in March 2008. Some preliminary results are given. Acoustic tomography may be considered...
[<http://www.image.ucar.edu/public/TOY/2008/focus3/Prese...>]
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- [boun1452.dvi](#) [PDF-259K]
Mar 2006
87. This study contributes to the sparse literature on anemometrically determined roughness parameters in cities. Data were collected using both slow and fast response anemometry in suburban areas of Chicago, Los Angeles, Miami and Vancouver.
[<http://www.kcl.ac.uk/ip/suegrimmond/publishedpapers/BL...>]
[similar results](#)
- [CIRES.FM-5](#) [PDF-2MB]
Apr 2004
88. CIRES, 1967–2002 Cooperative Institute for Research in Environmental Sciences

Pioneering a Successful Partnership Carl Kisslinger CI RES ,1967–2002 Cooperative Institute for Research in Environmental Sciences Pioneering a Successful Partnership Carl ...

[<http://cires.colorado.edu/about/history/CIRES1967-2002...>]

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[Table of Contents CHAPTER 5. Atmospheric Boundary-Layer Modelling](#) [PDF-573K]

May 2000

- 89. [Table of Contents CHAPTER 5. Atmospheric Boundary-Layer Modelling](#)
..... 5 - 1 5.1 Atmospheric Boundary-Layer Equations
..... 5 - 2 5.1.1 Mean-Velocity ...

[<http://personalpages.manchester.ac.uk/staff/david.d.ap...>]

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Nov 2004

- 90. The development of a prototype replacement data acquisition system for ISFF was completed this past year. ISFF previously consisted of 2 different data platforms, one designed in 1990 for ASTER and the second designed in 1995 for FluxPam.

[http://www.eol.ucar.edu/homes/cohn/older/ASR_2004/ASR0...]

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May 2008

- 91. A probing waveform is transmitted through a medium; received waveforms are then used to reconstruct the medium.

[<http://www.image.ucar.edu/public/TOY/2008/focus3/Prese...>]

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[HAO Annual Scientific Report 2004](#) [87K]

Jan 2005

- 92. Much of the detailed quantum physics of radiation scattering is, however, still not well understood, and there has been an ongoing debate on the source of the "enigmatic" observed shapes of the neutral sodium D1 and D2 polarization profiles.

[<http://www.asr.ucar.edu/2004/HAO/sah.html>]

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[Microsoft Word - Flight 19 paper.doc](#) [PDF-268K]

Jun 2008

- 93. Airborne measurements in a stable boundary layer over the Larsen Ice Shelf, Antarctica J.C. King, T.A. Lachlan-Cope, R.S. Ladkin and A. Weiss British Antarctic Survey Cambridge, UK Corresponding author J.C. King British Antarctic Survey High Cross ...

[http://nora.nerc.ac.uk/3218/1/Flight_19_paper_PDFA.pdf]

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94. Sep 2010
 ...spectral behavior of wind velocity and temperature for turbulence data taken at the 300 m 23 4 tower of the **Boulder Atmospheric Observatory** and found that, except for minor shifts in the 1 vertical velocity and temperature spectral peaks, the...
[\[http://www.eol.ucar.edu/about/reports/metrics/metricsp...\]](http://www.eol.ucar.edu/about/reports/metrics/metricsp...)
[similar results](#)
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 Jan 2007
- 95. Quality Assurance Handbook for Air Pollution Measurement Systems Volume IV: Meteorological Measurements Version 1.0 (Draft) EPA-454/D-06-001 October 2006
 Quality Assurance Handbook for Air Pollution Measurement Systems Volume IV: Meteorological ...
[\[http://www.epa.gov/oar/tribal/pdfs/EPA%20QA%20Handbook...\]](http://www.epa.gov/oar/tribal/pdfs/EPA%20QA%20Handbook...)
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- 96. ...Bedard AJ Jr, Finnigan JJ. 1989. A climatology of gravity waves and other coherent disturbances at the **Boulder Atmospheric Observatory** during March-April 1984. J. Atmos. Sci. 46: 303-329. Finnigan JJ, Bradley EF. 1989. Wind flow...
[\[http://www.csiro.au/people/John.Finnigan--ci_pubHist-1...\]](http://www.csiro.au/people/John.Finnigan--ci_pubHist-1...)
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[USA](#) [70K]
 May 2010
- 97. UV monitoring efforts in the U.S. are being coordinated through the US Global Change Research Program. In addition to the networks described below, there are a variety of UV monitoring instruments operated independently at universities, hospitals and ...
[\[http://uv.colorado.edu/country/usa.html\]](http://uv.colorado.edu/country/usa.html)
[similar results](#)
[ASR 1996 -- ATD/Surface and Sounding Systems Facility](#) [36K]
 May 1998
- 98. The mission of the Surface and Sounding Systems Facility (SSSF) is to provide surface-based in situ and sounding measurements, and associated data-processing and analysis software, in support of atmospheric research.
[\[http://www.eol.ucar.edu/dir_off/ASR/FY1996/asr96_ATDSS...\]](http://www.eol.ucar.edu/dir_off/ASR/FY1996/asr96_ATDSS...)
[similar results](#)
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 May 2008
- 99. ...events using tower data – the Monsoon Experiment (Bangalore) and another experiment conducted at the **Boulder Atmospheric Observatory**. In order to quantify the occurrence of bursting events, horizontal and vertical velocities were examined and...
[\[http://etd.lib.ttu.edu/theses/available/etd-04022008-1...\]](http://etd.lib.ttu.edu/theses/available/etd-04022008-1...)
[similar results](#)
[rs002682 1..14](#) [PDF-361K]
- 100. Feb 2005

Cross-correlation ratio method to estimate cross-beam wind and comparison with a full correlation analysis Guifu Zhang,¹ Richard J. Doviak,² J. Vivekanandan,¹ William O. J. Brown,¹ and Stephen A. Cohn¹ Received 11 March 2002; revised 18 June 2002; ...
[http://www.rap.ucar.edu/staff/vivek/Cross-correlation_...]
[similar results](#)

[Microsoft PowerPoint - AWEA2008Triton](#) [PDF-2MB]

Mar 2010

- 101. ...Wind Direction Distribution Comparison Interim Results of BAO (Boulder Atmospheric Observatory) Tall Tower Study SODAR Validation Sites Site Description Tower Height...
[<http://www.secondwind.com/PDFdocs/AWEA2008Triton-1.pdf>]
[similar results](#)

[PII: S0034-4257\(00\)00125-5](#) [PDF-632K]

Mar 2006

- 102. ...based albedo retrievals. (ERBE) and tower observations in regions of plain agricultural land at the **Boulder Atmospheric Observatory** (BAO) and for snow at Saskatoon, Canada. ERBE sur- GROUND-BASED ALBEDO MEASUREMENTS face albedos at...
[<http://www-modis.bu.edu/brdf/userguide/publications/20...>]
[similar results](#)

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Jul 2006

- 103. 1 Overview 1 1.2 Motivations of this work 3 1.3 The rationale of this work
[http://www.unitn.it/files/download/9704/monographs_1.p...]
[similar results](#)

[Microsoft Word - Updated cover.doc](#) [PDF-9MB]

Dec 2009

- 104. But we did get very good news at UMBC this year when the campus was named by US News and World Report as the #1 "up and coming" university in the country. President Freeman Hrabowski can be rightfully proud of this achievement.
[http://gest.umbc.edu/media/ar/GEST_9th_Annual_Report.p...]
[similar results](#)

[NSO: Site survey for world's largest optical solar telescope passes midpoint](#) [8K]

May 2004

- 105. ...Rimmele. To do verify this, the site survey equipment was set up at the base of the 300-meter (985-ft) **Boulder Atmospheric Observatory** tower outside Erie, CO (the BAO is operated by the National Oceanic and Atmospheric Administration...
[http://www.nso.edu/press/AAS_0604/AAS04_sitesurvey.htm...]
[similar results](#)

- [NASA Global Precipitation Measurement Mission CSU/NOAA-ETL/NOAA-AL...](#)

106.[PDF-308K]

Mar 2004

...NOAA-University of Colorado Platteville Atmospheric Observatory near Platteville, CO, and at the NOAA **Boulder Atmospheric Observatory** (BAO) near Erie, CO.

Figure 1. Map of the study areas showing the locations of experiment sites (bold...

[http://radarmet.atmos.colostate.edu/gpm/pilot_files/FR...]

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Mar 2008

- 107. Air Resources Laboratory Publications – FY 1994 ANGELL, J.K. Global temperature variations in troposphere and low stratosphere, 1958-1992. Proceedings, Eighth Symposium on Meteorological Observations and Instrumentation, Anaheim, CA, January 17-22, 1993.

[<http://www.arl.noaa.gov/documents/pubs/FY1994.pdf>]

[similar results](#)

[SYSTEM PERFORMANCE OF ABSOLUTE QUARTZ-CRYSTAL BAROMETERS WITH...](#) [PDF-9MB]

Oct 2009

- 108. Kelly, Member Douglas P. Looze, Member Christopher V.Hollot, Department Chair Electrical and Computer Engineering To my parents, Premlata and Ananthanarayanan. ACKNOWLEDGMENTS I express my sincere gratitude to my advisor, Prof.

[http://www.ecs.umass.edu/ece/muschinski/kumar_MS_Thesi...]

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[REPORT SERIES IN AEROSOL SCIENCE](#) [PDF-22MB]

Sep 2007

- 109. REPORT SERIES IN AEROSOL SCIENCE N:o 81B (2006) Proceedings of Research Units Physics, Chemistry and Biology of Atmospheric Composition and Climate Change Finnish Centre of Excellence Editors: Markku Kulmala, Anders Lindroth and Taina M.

[http://www.atm.helsinki.fi/BACCI/rs/rs81B_BACCI_NECC_F...]

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- 110. Abstract: A theoretical analysis of a low power Gaussian field propagating in unbiased self-defocussing photorefractive media that includes both real and imaginary components of the intensity-dependent refractive index is presented.

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- 111. Air Resources Laboratory Publications – 1991-2008 1991 ACKERMANN, G.R. Data base management strategies for large field studies. Proceedings, 84th Annual Meeting of the Air

& Waste Management Association, Vancouver, B.C., June 16-25. Air & Waste Management ...

[<http://www.arl.noaa.gov/documents/pubs/CY1991-2008.pdf>]

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[E. Miller, M. S., M. Howard, W. Ecklund, D. Carter, K. Gage, and J....](#) [80K]

Nov 2002

- 112. E. Miller, M. S., M. Howard, W. Ecklund, D. Carter, K. Gage, and J. Wilson, 1994: The integrated sounding system: Description and preliminary observations from TOGA COARE. Bull. Amer. Meteor. Soc., 75, 553-567. E. W. Koenig, D. D. L., S. Silverman, L. A. ...

[<http://twister.ou.edu/references/E.html>]

[similar results](#)

[Microburst Handbook](#) [44K]

Jun 2002

- 113. ...pressure and photographic observations taken during field experiments. A small microburst passing through the **Boulder Atmospheric Observatory** tower showed a drop in pressure with the main downdraft (Bedard et al. 1987). Fujita (1983) observed...

[<http://cimms.ou.edu/~doswell/microbursts/Handbook.html>]

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[Wind directionality: A reliability-based approach](#) [PDF-24MB]

Aug 2008

- 114. Wind directionality: A reliability-based approach by Rolando E. Vega-Ávila, B.S.C.E A Dissertation In WIND SCIENCE AND ENGINEERING Submitted to the Graduate Faculty of Texas Tech University in Partial Fulfillment of the Requirements for the Degree of ...

[<http://etd.lib.ttu.edu/theses/available/etd-07072008-1...>]

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Nov 2010

- 115. ...Monitoring Project) (1) Report (Institute of Hydrology (Great Britain)) (1) Report (NOAA/NCAR **Boulder Atmospheric Observatory**) (1) Report (United States. Coast Guard. Office of Research and Development) (3) Report - Federal...

[<http://blacklight.betech.virginia.edu/catalog/facet/se...>]

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[doi:10.1016/j.atmosenv.2007.09.043](https://doi.org/10.1016/j.atmosenv.2007.09.043) [PDF-940K]

Dec 2008

- 116. ARTICLE IN PRESS Atmospheric Environment 42 (2008) 3625–3653 Review Aerosol dry deposition on vegetative canopies. Part I: Review of present knowledge Alexandre Petroff a,Ã, Alain Mailliatb , Muriel Amielha , Fabien Anselmeta a I.R.P.H.E.

[http://www.weru.ksu.edu/new_weru/ftp_site/wagner/SERDP...]

[similar results](#)

[25 September, 2000](#) [Word-9MB]

- 117. Mar 2003 Abstract. Experience of long term flux measurements over tall canopies during the last

two decades has revealed that the eddy flux of sensible plus latent heat is typically 30% smaller than the available radiant energy flux.

[<http://www.geog.ox.ac.uk/~ymalhi/publications/A%20Re-e...>]

[similar results](#)

[FINALNews2004](#) [PDF-2MB]

Sep 2007

- 118. (dual) receiver system. Courtesy of the Illinois State Water Survey, we received the HOT radar in 1997, and by summer 1998, had it fully operational 40 km north of CHILL.

[<http://www.chill.colostate.edu/wiki/images/0/0b/Newsle...>]

[similar results](#)

<http://www.agu.org/journals/rs/.PDF> [PDF-458K]

Aug 2008

- 119. Cross-correlation ratio method to estimate cross-beam wind and comparison with a full correlation analysis Guifu Zhang,¹ Richard J. Doviak,² J. Vivekanandan,¹ William O. J. Brown,¹ and Stephen A. Cohn¹ Received 11 March 2002; revised 18 June 2002; ...

[http://arrc.ou.edu/members/guifu/2003Zhang_RS8052.pdf]

[similar results](#)

[Quantification of Coherent Structures in the Atmospheric Boundary...](#) [PDF-15MB]

Mar 2009

- 120. Quantification of Coherent Structures in the Atmospheric Boundary Layer. by Felicity Mary Perry September 2008 Submitted in accordance with the requirements for the degree of Doctor of Philosophy.

[http://homepages.see.leeds.ac.uk/~pre0fmp/Perry_FINAL-...]

[boun1723.dvi](#) [PDF-384K]

Jun 2007

- 121.98): A REPORT J. CUXART, C. YAGÜE, G. MORALES, E. TERRADELLAS, J. ORBE, J. CALVO and A. FERNÁNDEZ Instituto Nacional de Meteorología, Spain M. R. SOLER, C. INFANTE, P. BUENESTADO and A.

[http://www.ucm.es/info/Geofis/g-micromet_varclima/arti...]

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[FY 1997 ATD Science Highlights](#) [17K]

Dec 1997

- 122. ...during the PROWS field experiment. The radar location at the Eastlake site was a few miles south of the **Boulder Atmospheric Observatory** (BAO) tower. A coherent source was placed on top of the BAO tower and the antenna was scanned for recording...

[http://www.eol.ucar.edu/dir_off/ASR/FY1997/asr97_ATDsc...]

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[ISO 19115 Metadata of NOSA Record Set](#) [124K]

- 123. Sep 2010

...AIRMoN) gov.noaa.nosa:OAR-ATDD-AIRMoN FAQ Text Rubric Table KML

Discovery FGDC 23 NOAA Research-**Boulder Atmospheric Observatory** (BAO)
gov.noaa.nosa:OAR-ETL-BAO FAQ Text Rubric Table KML Discovery FGDC 24
NOAA Research-Carbon...

[<http://www.ngdc.noaa.gov/metadata/published/iso/NOSA/1...>]
[similar results](#)

[NCAR/ATD - ASR 99 - ATD Development Activities](#) [22K]

Apr 2001

- 124. ...MAPR) spent more time in the field than ever. In April it ended a seven-month deployment at NOAA's **Boulder Atmospheric Observatory** 300-meter, instrumented tower near Erie, Colorado. Efforts were concentrated on software development...

[http://www.eol.ucar.edu/dir_off/asr99/asr99_develop.ht...]

[similar results](#)

[Slide 1](#) [PPT-8MB]

May 2008

- 125. Tomography, or “imaging by sections,” is used in many fields such as medicine, seismology, oceanography, and materials testing. A probing waveform is transmitted through a medium; received waveforms are then used to reconstruct the medium.

[<http://www.image.ucar.edu/public/TOY/2008/focus3/Prese...>]

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- 126. Abstract: A theoretical analysis of a low power Gaussian field propagating in unbiased self-defocussing photorefractive media that includes both real and imaginary components of the intensity-dependent refractive index is presented.

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- 127. ...76-15 (1) Report / 110th Congress, 2d session, House of Representatives (1) Report (NOAA/NCAR **Boulder Atmospheric Observatory**) (1) Report (United States. Bureau of Labor Statistics) (1) Report (United States. Bureau of Land...

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- 128. The system is based on a standard x86 MINI-ITX computer and the open-source operating system Linux. Real-time access for debugging and remote system control is implemented via a network interface. A 160-GB, 2.5-in. hard disk drive provides extended local ...

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- 129. Journal of the Indian Institute of Science Bangalore 560 012, India Volume 71

November-Uerrinber 1991 CONTENTS Biochemistry Satya P Kunapuii and C. S. Vaidyanathali Satya P. Kunapul~ and C.S. Vaidyanathari Aquacultorr Y.
[<http://journal.library.iisc.ernet.in/archives/v9-79/Vo...>]

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□ 130. Jun 2008

The project is the prelude for a PhD programme which will be continued right after the master thesis work, which was offered by Professor Sven Knutsson.

[<http://epubl.luth.se/1653-0187/2008/044/LTU-PB-EX-0804...>]

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Oct 2010

131. Air Resources Laboratory Publications – 1991-2009 1991 ACKERMANN, G.R. Data base management strategies for large field studies. Proceedings, 84th Annual Meeting of the Air & Waste Management Association, Vancouver, B.C., June 16-25. Air & Waste Management

...
[<http://www.arl.noaa.gov/documents/pubs/CY1991-2009.pdf>]

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Jan 2006

□ 132. Cooperative Institute for Research in Environmental Sciences Academic Program Review University of Colorado at Boulder Self-Study Report Date of Submission: 1 February 2006 Date of Approval by Fellows of CIRES: 26 January 2006 (21-0-0) Members of the ...

[<http://cires.colorado.edu/pubs/admin/cu/prp/CIRES06CUP...>]

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□ 134. ...short-wave pixel measurements have been collocated with near-surface insolation measurements made at the **Boulder Atmospheric Observatory** tower. Simultaneous unfiltering and calibration of the GOES measurements was achieved through comparison to...

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135. DISS. ETH. NO. 17394 The influence of bottom boundary turbulence on sediment solute dynamics A dissertation submitted to ETH Zurich for the degree of DOCTOR OF SCIENCE presentd by ANDREAS BRAND Dipl.
[<http://e-collection.ethbib.ethz.ch/eserv/eth:30414/eth...>]
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136. ...running mean 9 START08 Workshop, 8-9 Jan 2008 Air Quality, Carbon Cycle, & GHG Measurements at Tall Tower **Boulder Atmospheric Observatory (BAO)** • Height = 300 m • Movable carriage with > 1 ton capacity • Transit time for vertical profile ≈ 9...
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138. A A B BI IB BL LI IO OG GR RA AP PH HY Y O OF F E EV VA AP PO OT TR RA AN NS SP PI IR RA AT TI IO ON N W WI IT TH H S SP PE EC CI IA AL L E EM MP PH HA AS SI IS S O ON N R RI IP PA AR RI IA AN N V VE EG GE ET TA AT TI IO ON N WRRI Miscellaneous Report No. ...
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139. ...February 2010 at the NOAA **Boulder Atmospheric Observatory**. Daytime snowmelt and...ascending the 300-m NOAA **Boulder Atmospheric Observatory** tower. Variations in...were made at the NOAA **Boulder Atmospheric Observatory (BAO)** tall-tower facility...
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140. [WIND PARAMETERS OF TEXAS TECH UNIVERSITY FIELD SITE by CHEE VUI CHOK,...](#) [PDF-5MB]

May 2009

Kishor C. Mehta, for his guidance, encouragement and constructive criticism throughout the course of this research. Special thanks are extended to my thesis committee members, Dr. James R. McDonald and Richard E. Peterson, for their valuable suggestions ...

[<http://etd.lib.ttu.edu/theses/available/etd-05122009-3...>]

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141.1 Atmospheric Stability 6 2.2 Development of Thunderstorm Cells 9 2.3 Outflow Formation 13 2.4 Related Research 16 2.5 Surface Layer Characteristics 20 2.5.1 Stationarity 20 2.5.2 Time Averaging 20 2.5.3 Turbulence Intensity and Standard Deviation of Wind ...

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142.

[On Wind and Roughness over Land](#)

Verkaik, J.W., dissertation, Jan 2006

The relation between wind, momentum flux, roughness and land-use in disturbed, non-homogeneous boundary layers is studied. Key questions are: ``how is the roughness related to land-use?``, ``how are wind and friction related to the upstream land-use and ...

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[Determination of the total nitrogen deposition by the 15N isotope dilution method and problems in extrapolating results to field scale](#)

Russow, R. / Böhme, F. , Geoderma, 127 (1-2), p.62, Jul 2005

doi:10.1016/j.geoderma.2004.11.015

□

143.

Abstract In order to determine the total input of reactive nitrogen from the atmosphere into the soil-plant system, a method was developed on the basis of 15N isotope dilution called Integrated Total Nitrogen Input (ITNI). This is the only method ...

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[Wind-dependence of sea-salt and non-sea-salt aerosols over the oceanic environment](#)

Nair, Prabha R. / Parameswaran, K. / Abraham, Annamma / Jacob, Salu , Journal of Atmospheric and Solar-Terrestrial Physics, 67 (10), p.884, Jul 2005

doi:10.1016/j.jastp.2005.02.008

□

144.

Abstract Aerosols in the oceanic environment essentially consist of a sea-salt component generated from the ocean surface by the action of wind and a non-sea-salt component advected from adjacent continents and these aerosols together constitute a ...

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145. Jan 2005

...NOAA-University of Colorado Platteville Atmospheric Observatory near Platteville, CO, and at the NOAA **Boulder Atmospheric Observatory** (BAO) near Erie, CO. Ground Measurement Sites Both the BAO and Platteville sites had profilers operating...
[http://radarmet.atmos.colostate.edu/gpm/pilot_project_...]

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- 146. The use of any such equipment is also subject to any policy or guidance by their user agency. 7.1.1 LASERS AND OTHER SYSTEMS THAT OPERATE ABOVE 3000 GHz No authorization is required for the use of frequencies above 3000 GHz.
[<http://www.ntia.doc.gov/osmhome/redbook/7.pdf>]

[similar results](#)

[Damage sensing in CFRP composites using electrical potential techniques](#)

Angelidis, Nikolaos, dissertation, Feb 2004

- 147. This Thesis investigates the damage sensing capabilities of the electrical potential measurement technique in carbon fibre reinforced polymer composites. Impact damage was introduced in multidirectional laminates and its effect on potential distribution ...
[<http://hdl.handle.net/1826/127>]

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- 148. The following list contains all the current entries in the BASIN bibliography database. You may also search this database by title author or subject using this search form If you have any additional references to add, please send them to BASIN! We'd love ...
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- 149. ...by Distromet ltd. and three disdrometers were used in the GPM-Front Range Pilot Study. One was at the **Boulder Atmospheric Observatory** (BAO) and two were located at the Platteville Atmospheric Observatory (PLT). The disdrometer electronics...
[http://olympic.atmos.colostate.edu/gpm/jwplt/jwd_plt_a...]

[similar results](#)

[Wind tunnel simulation of wind loading on low-rise structures: a review](#)

Tieleman, Henry W. , Journal of Wind Engineering and Industrial Aerodynamics, 91 (12-15), p.1627, Dec 2003

- 150. doi:10.1016/j.jweia.2003.09.021

Abstract A review of existing and new considerations for the assessment of wind loads on low-rise structures from wind tunnel simulation experiments is presented. Attention is given to the aerodynamics of surface-mounted prisms, followed by a ...

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..24.1: [quotes Lucretius and the I Ching*](#) HO, C.-M. HUERRE, P.*... [ASCII-93K]

Jul 2002

152. Perturbed free shear layers* Ann. Rev. Fluid Mech. 16, 365* 1984. ` ..28.3: Orwell not mentioned* MATEOSIAN, R.* 1984, the year of the 32-bit microprocessor.* BYTE vol. 9, no. 1, p. 134* ...

[<http://navier.stanford.edu/bradshaw/pbref/ref84>]

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153. ...especially advances in observing systems. One example from the late 1970s was related to the construction of the **Boulder Atmospheric Observatory** (BAO), an instrumented 300 meter tower near the town of Erie east of Boulder. The legacy of early studies...

[<http://cires.colorado.edu/about/history/07a.html>]

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[Atmospheric Disturbances that Generate Intermittent Turbulence in Nocturnal Boundary Layers](#) [PDF-2MB]

Feb 2006

154. ...Chimonas, 1993 Blumen et al., 2001 Mahrt et al., 2001). A series of papers based on data from the **Boulder Atmospheric Observatory** (BAO) focussed on interactions between turbulence, gravity waves, and solitary-like waves (Lu et...

[http://www.mmm.ucar.edu/people/burns/files/blm04_v110n...]

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International Geophysics, 85, p.251, Jan 2002

doi:10.1016/S0074-6142(02)80280-7

155. ...A. J., and Finnigan, J. J. A climatology of gravity waves and other coherent disturbances at the **Boulder atmospheric observatory** during March-April 1984. J. Atmos. Sci. 46:303-329, 1989. Eliassen, A. and Palm, E. On the...

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[6 Waves and turbulence](#)

International Geophysics, 85, p.125, Jan 2002

156. doi:10.1016/S0074-6142(02)80274-1

6 WAVES AND TURBULENCE 6.1 Parcel Exchange Analysis of Flow Stability 6.2

Shear Instability and Unstable Modes 6.2.1 Kelvin-Helmholtz Instability 6.2.2 The Stability of Shear Flows 6.3 Wave-Modulated Richardson Number 6.4 Wave-Turbulence Coupling 6.5 ...

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[Simultaneous measurements of ammonia and nitric acid in ambient air at Agra \(27°10'N and 78°05'E\) \(India\)](#)

Parmar, R. S. / Satsangi, G. S. / Lakhani, A. / Srivastava, S. S. / Prakash, S. ,
Atmospheric Environment, 35 (34), p.5979, Dec 2001

157. doi:10.1016/S1352-2310(00)00394-0

Abstract Simultaneous measurements of ammonia and nitric acid in ambient air were conducted at Dayalbagh, Agra using the mist chamber technique. The sampling site is located near a cattle shed. A total of 120 samples were collected during the period ...

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[Deliquescence induces eddy covariance and estimable dry deposition errors](#)

Kowalski, Andrew S. , Atmospheric Environment, 35 (28), p.4843, Oct 2001
doi:10.1016/S1352-2310(01)00270-9

158. Abstract The effects of deliquescent processes on eddy covariance estimates of dry deposition are considered, both theoretically and using some representative data. Turbulent and latent heat fluxes near the Earth's surface imply a vertical ...

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[Evaluation and refinement of a micrometeorological method for the measurement of mercury fluxes in natural settings](#)

Wallace, Deanne M. , Jan 2001

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160. ...larger roughness further upstream* PANOFSKY, H.A.* Vertical variation of roughness length at the **Boulder Atmospheric Observatory*** Boundary-Layer Met. 28, 305* 1984. ` ..19.2,43.1: for dissipation - from high order structure... [http://navier.stanford.edu/bradshaw/pbref/refs430]

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[<http://navier.stanford.edu/bradshaw/pbref/refs060>]

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[Nitric acid dry deposition to conifer forests: Niwot Ridge spruce–fir–pine study](#)

Sievering, H. / Kelly, T. / McConville, G. / Seibold, C. / Turnipseed, A. , Atmospheric Environment, 35 (22), p.3851, Aug 2001

□ 162. doi:10.1016/S1352-2310(01)00156-X

Abstract The dry deposition velocity of nitric acid, $V_d(\text{HNO}_3)$, over a 12-m (mean height) spruce–fir forest at Niwot Ridge, Colorado was estimated during 13 daytime periods using the flux-gradient approach. Turbulence intensity at this site is high ...

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[A size-segregated particle dry deposition scheme for an atmospheric aerosol module](#)

Zhang, Leiming / Gong, Sunling / Padro, Jacob / Barrie, Len , Atmospheric Environment, 35 (3), p.549, Jan 2001

□ 163. doi:10.1016/S1352-2310(00)00326-5

Abstract A parameterization of particle dry deposition has been developed for the Canadian Aerosol Module (CAM). This parameterization calculates particle dry deposition velocities as a function of particle size and density as well as relevant ...

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[Multiphase measurement of atmospheric ammonia](#)

Singh, S. P. / Satsangi, G. S. / Khare, P. / Lakhani, A. / Maharaj Kumari, K. / Srivastava, S. S. , Chemosphere - Global Change Science, 3 (1), p.107, Jan 2001

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Abstract Measurement of ammonia in vapour phase, particulate and rain was made at a suburban site of India. Vapour phase concentrations varied between 0.97 and 25.5 $\mu\text{g m}^{-3}$ (57.1–1500.0 nmol m^{-3}) and diurnal variation study showed high concentration ...

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[A Comparison of Satellite-Derived Spectral Albedos to Ground-Based Broadband Albedo Measurements Modeled to Satellite Spatial Scale for a Semidesert Landscape](#)

Lucht, Wolfgang / Hyman, Andrew H. / Strahler, Alan H. / Barnsley, Mike J. / Hobson, Paul / Muller, Jan-Peter , Remote Sensing of Environment, 74 (1), p.85, Oct 2000

□ 165. doi:10.1016/S0034-4257(00)00125-5

...Radiation Budget Experiment sensor (ERBE) and tower observations in regions of plain agricultural land at the **Boulder Atmospheric Observatory** (BAO) and for snow at Saskatoon, Canada. ERBE surface albedos at 35-km resolution were calculated from...

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[Profile measurements of particle dry deposition velocity at an air-land interface](#)
Sievering, Herman , Atmospheric Environment (1967), 16 (2), p.301, Jan 1982
doi:10.1016/0004-6981(82)90446-2

- 166. ...meteorological profiles at the **Boulder Atmospheric Observatory** tower. Particle concentrations...sites other than the **Boulder Atmospheric Observatory**.
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- 167. ...speeds measured at 50, 100, and 150 m at the **Boulder Atmospheric Observatory** from September 1st , 2008 to November 30th , 2008...LOCATION DESCRIPTION
BAO Sept–Nov 2008 **Boulder Atmospheric Observatory** Nearby 300 m Tower Cape Cod May–July 2008...
[http://www.secondwind.com/PDFdocs/LaWhite-Shear-Veer-P...]

[Atmospheric boundary-layer flow over topography, data analysis and representations of topography](#)

- 168. Mengesha, Yoseph Gebrekidan , Jan 1999
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[Impact of particle characterization in confounding reported particle deposition velocities](#)
Sievering, Herman / Pueschel, Rudolf , Atmospheric Environment (1967), 16 (2), p.359, Jan 1982

- 169. doi:10.1016/0004-6981(82)90454-1
...value for anthropogenic particles at this **Boulder Atmospheric Observatory** site. A small biological particle surface...measurement of particle dry deposition at the **Boulder Atmospheric Observatory** (BAO) by the direct observation of aerosol...
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- 170. 8m/s で、風速計が鉄塔の 陰になるような風向の場合、鉄塔の観測値は観測ポールの風速に対して 0.55 倍まで減衰することがあった。
一方、風速計が鉄塔の側面に位置するような風向の場 ...
[http://criepi.denken.or.jp/research/review/No38/chap-4...]

[Seasonal snapshots of the isotopic \(14C, 13C\) composition of tropospheric carbon monoxide at Niwot Ridge, Colorado *1](#)

Tyler, Stanley C. / Klouda, George A. / Brailsford, Gordon W. / Manning, Andrew C. / Conny, Joseph M. / Timothy Jull, A. J. , Chemosphere - Global Change Science, 1 (1-3), p.185, Aug 1999

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Abstract Clean continental air, collected near Niwot Ridge, Colorado (3.75 km altitude), over a two-year period (1991–1992), has been investigated for the composition of atmospheric carbon monoxide. Its chemical and isotopic signatures, distributed ...

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[Turbulent bursts in a near-neutral atmospheric boundary layer - part I](#)

Narasimha, Roddam / Kailas, Sudarsh V / Kaimal, JC, preprint, Nov 1990

- 172. ...boundary layer at the **Boulder Atmospheric Observatory** are analysed here to...studyhas come from the **Boulder Atmospheric Observatory** at Boulder, Colorado...

[<http://nal-ir.nal.res.in/2743/>]

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[Energy events in the atmospheric boundary layer](#)

Narasimha, Roddam / Kailas, Sudarsh V, preprint, Jan 1987

- 173. ...neutral stability at the **Boulder Atmospheric Observatory**, it is found that the...study were taken at the **Boulder Atmospheric Observatory** at Boulder, Colorado...

[<http://nal-ir.nal.res.in/2737/>]

[similar results](#)

[Estimates and measurements of evaporation from wet, sparse pine forest in Portugal](#)

Gash, J. H. C. / Valente, F. / David, J. S. , Agricultural and Forest Meteorology, 94 (2), p.149, Apr 1999

- 174. doi:10.1016/S0168-1923(99)00008-8
Abstract Measurements of evaporation were made from a wet, sparse pine forest using the eddy correlation/energy balance method in saturated canopy conditions. The measurements were compared with the estimates of evaporation made using the ...

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Narasimha, R / Kailas, Sudarsh V, conference, Jan 1987

- 175. ...turbulent bursts at high Reynolds numbers. Utilizing data acquired under conditions of neutral stability at the **Boulder Atmospheric Observatory**, it is found that the 'energy events' so detected are qualitatively similar in many respects to the turbulent...

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- 176. Narasimha, R / Kailas, Sudarsh V, conference, Jan 1987

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[Scavenging efficiency of lead and sulfate in supercooled clouds at Sonnblick, 3106m a.s.l., Austria](#)

Kasper, A. / Puxbaum, H. / Brantner, B. / Paleczek, S. , Atmospheric Environment, 32 (23), p.3967, Dec 1998

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...aerosol concentrations ϵ_{SO_4} ϵ_{SO_4} ϵ_{SO_4} Reference Comment 0.8–0.98 Sievering et al. (1984) **Boulder Atmospheric Observatory**, up to 0.3km up to 0.9 Ten Brink et al. (1987) aircraft meas., Eastern U.S. 0.6–0.8...

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[The degradation of doppler sodar performance due to noise a review](#)

Crescenti, Gennaro H , Atmospheric Environment, 32 (9), p.1499, May 1998

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[Behaviour and spatial and temporal variations of polychlorinated biphenyls and lindane in the urban atmosphere of the Paris area, France](#)

Khalil Granier, Laurent / Chevreuril, Marc , Atmospheric Environment, 31 (22), p.3787, Nov 1997

- 180. doi:10.1016/S1352-2310(97)00210-0
Abstract This paper presents the results of a five year study (1986–1991) of the contamination of the Paris area atmosphere by polychlorinated biphenyls (PCBs) and lindane. The main processes affecting their behaviour and fate such as ...

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[Influence of components of the advection-aridity approach on evapotranspiration estimation](#)

Qualls, Russell J. / Gultekin, Hakan , Journal of Hydrology, 199 (1-2), p.3, Dec 1997

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collected at the **Boulder Atmospheric Observatory** (BAO) operated by the National Oceanic and Atmospheric Administration (NOAA), near Erie, Colorado...

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Gallagher, M. W. / Beswick, K. M. / Duyzer, J. / Westrate, H. / Choularton, T. W. / Hummelshøj, P. , Atmospheric Environment, 31 (3), p.359, Feb 1997

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Abstract It has often been stated that micrometeorological and throughfall measurements of dry deposition differ by an order of magnitude with the results being highly variable and difficult to interpret or reconcile. We present measurements by the ...

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[Experimental investigation of atmospheric boundary layer turbulence](#)

Druilhet, Aimé / Durand, Pierre , Atmospheric Research, 43 (4), p.345, Apr 1997
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183. Abstract This paper describes how to measure turbulence in the atmospheric boundary layer (ABL) in order to address certain problems in modern atmospheric physics. These problems mainly relate to the Earth's energy budget (including the hydrological ...

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[Comparison of closure schemes used to specify the velocity PDF in Lagrangian stochastic dispersion models for convective conditions](#)

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...Boulder. CO 80303, U.S.A. EXPERIMENTAL PROCEDURE The measurements were made on 6 June 1982 at the **Boulder Atmospheric Observatory** (BAO) during a high speed 'chinook wind'. The westerly wind was quite steady (265290 wind sector...

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...high relative to the true roughness length. Mean wind observations at Uppsala, Sweden [5], and at the **Boulder Atmospheric Observatory** [6,7] exhibit changes in slope ('kinks') when presented in semilogarithmic form even in the absence...

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[Turbulence Measurement of the Planetary Boundary Layer from a 213m Meteorological Tower](#)

TSUKAMOTO, Osamu, preprint, Dec 1985

200. ...long period is not easy. Recently, meteorological towers for planetary boundary layer observation (e.g. **Boulder Atmospheric Observatory** (Kaimal and Gaynor')) have been constructed at a few sites in the world. One of the high meteorological...
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[Precision and Relative Accuracy of a Phased Array Doppler Sodar](#)

TAKEHISA, Masato / ITO, Yoshiki / KATAOKA, Tsuyoshi / MITSUTA, Yasushi, preprint, Jun 1992

201. ...We participated with the new sodar in the International Sodar Intercomparison Experiment (ISIE) at the **Boulder Atmospheric Observatory** (BAO) in 1988 (Gaynor et al., 1990)3). In

this experiment, comparisons were made against the sonic...
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□ 203. Abstract The popular techniques that have been used to measure small particle dry deposition are summarized. Some of the major studies described, and the limitations and shortcomings of some of the experimental programmes performed, to date, are ...

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Eskridge, Robert E. / Lamb, Brian / Allwine, Eugene , Atmospheric Environment. Part A. General Topics, 24 (7), p.1781, Jan 1990

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Li, Zong-kai / Briggs, Gary A. , Atmospheric Environment (1967), 22 (1), p.55, Jan 1988

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Holländer, W. / Pohlmann, G. / Morawietz, G. , Journal of Aerosol Science, 20 (3), p.381, Jan 1989

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Abstract The measuring technique is based on Laser Doppler Anemometry (LDA). When two laser beams intersect, an interference pattern is formed. Particles crossing this interference pattern emit a pulse of scattered light which is modulated by the ...

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Soulsby, R.L. , Elsevier Oceanography Series, 35, p.189, Jan 1983

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- 207. 189 CHAPTER 5 THE BOTTOM BOUNDARY LAYER OF SHELF SEAS R.L.. SOULSBY 1. INTRODUCTION I.I. General Tidal currents on the continental shelf are influenced to a greater or lesser extent by the effect of friction at the seabed. In deep water with slow ...

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Abstract The objective of the study was to measure the size dependence of cloudwater deposition and associated average ionic fluxes to vegetated surfaces. Measurements were made over a forest canopy at Dunslair heights in south Scotland and a ...

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Abstract A preliminary evaluation of the impact of snow cover on daytime pollutant dispersion conditions is made by using conceptual, scaling, and observational analyses. For uniform snow cover and synoptically unperturbed sunny conditions, ...

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