

Belay B. Demoz

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EDUCATION:

Post Doc. University of Illinois-Urbana Champaign (UIUC), 1992-1994

Ph. D. Atmospheric Physics. University of Nevada-Reno; Desert Research Institute (DRI), 1992. *Study area: Dissertation: Sierra Nevada Winter Storms: A Study Using Microwave Radiometry, Ice crystal and Isotopic Technique*

M. Sc. Atmospheric Science. University of Nevada-Reno, Desert Research Institute (DRI), 1989
Study area: Thesis: A Study of the Ratio of $^{18}O/^{16}O$ in Relation to Physical Cloud Characteristics in Precipitation from Ice-Phase Winter Storms over the Sierra Nevada.

B. Sc., Physics, Minor in Mathematics. Asmara University, Eritrea, East Africa, 1984
Note: 25 credits of Teaching and developmental psychology equivalent to teaching certification.

SUMMARY OF EXPERIENCE

Broad scientific, teaching and service background has encompassed years of observational work in lidar remote sensing applications, radars and microwave radiometry, cloud physics, mesoscale convection, observation network design and atmospheric chemistry. Extensive experience in mentoring, multi-agency field observation coordination, outreach activities and associated grant development work.

- Advanced modern physics lab, general physics, mechanics, electricity and magnetism, atmospheric physics - (cloud physics, aerosols, introduction to remote sensing, instrumentation)
- Advised graduate students, and served in Masters and Doctoral Committees
- Guided and supervised graduate and undergraduate students in several field programs
- Cirrus dynamics and turbulence characterization using wavelets and other methods
- Use of Raman lidar and its application in mesoscale dynamics (dryline, cold fronts, atmospheric waves), macro-scale cloud studies (improved cloud base and geometry analysis), water vapor mixing ratio and aerosol scattering studies.
- Analysis of seasonal to intra-seasonal climate signals over the Horn of Africa: Statistical analysis of rain fall (local, gauge-measured) and NDVI (regional, satellite-measured) over Eritrea
- Investigated size-dependence of solute concentration in fog and cloud droplets, planned, participated, and guided field sampling programs at several sites in the USA
- Winter storm structure and evolution study using an integrated approach; water vapor and cloud water isotope (O_{18}/O_{16} ratios) analysis, snow and ice-crystal morphology, snow chemistry, aircraft, radar and microwave radiometry
- Developed a conceptual model of winter storms over the Sierra Nevada
- Interested in public policy analysis in the Horn of Africa; specifically environmental policy (two courses short of completing a Master in Public Policy)
- Researched bio-gas production and rock-crush analysis for alternative fertilizer development
- Designed and constructed salinity (“mho”) meter, “cold-trap” for oxygen-isotopic analysis studies, and designed, tested, calibrated and deployed several size-selective cloud water collectors.

PROFESSIONAL EXPERIENCE:

2012– Present: *Professor of Physics and Atmospheric Science, Howard University.* Appointment: Department of Physics and Astronomy and HU Program in Atmospheric Science.

2007 - Present: Adjunct Professor, *Atmospheric Sciences, University of Utah*

2008- 2012: *Associate Professor, Howard University.* Appointment: Department of Physics and Astronomy as Associate Professor. In this capacity, I have started research in atmospheric physics measurements of water vapor, temperature, winds, and cloud properties.

2000 – 2010: Fellow, *JCET, Univ. of Maryland Baltimore County*

2002-2008: Physical Scientist, NASA/GSFC. Mesoscale Atmospheric Processes Branch: Joined NASA as a Civil Servant working on mesoscale process studies. Investigated scientific questions ranging from cirrus cloud modeling to water vapor in fronts and waves as well as organized and planned several experiments that made use of varieties of Lidars. Managed the NASA Earth Science Fellowship (NESSF) graduate student competition award in 2007 as a NASA Administrator's Fellow at NASA-Head Quarters.

2005-2007: Adjunct Professor (2005-2007): *Howard University, Department of physics and Astronomy*

1998- 2002 Assistant Professor, JCET, Univ. of Maryland Baltimore County. A joint appointment in the Physics department and JCET. Investigated water vapor and aerosol effects in the formation and dynamics of cirrus clouds and contrails. Investigated the dynamics of mesoscale processes using the NASA/Goddard Scanning Raman lidar, radiometers and other instruments. Leader, *Observations Focus Group.* As a group leader, responsible for writing the overall scientific “vision” of the group, perform annual and semi-annual reviews of group members (20 scientists), and advised the Director of JCET on promotion and work related conflicts that may arise in the group. The group leader also sits in the JCET Steering committee.

1994-1998: Principal Scientist Hughes STX Corp. Water vapor and Aerosol studies using Raman lidar, radiometers, satellite, and radiosonde profiles. Applied Wavelet, Multi-fractal and other statistical analysis methods in the analysis of fronts, drylines, thunderstorm outflows, undular Bores and other mesoscale events. Analyzed aircraft and ground based remote sensing observations to study cirrus dynamics.

1992-1994: Post Doctoral Associate, UIUC, Institute for Environmental Science. Investigated the size dependence of solute concentration in cloud and fog droplets and its effect in sulfate oxidation rates. Designed, tested and calibrated several new cloud-water collectors for size selective cloud and fog droplet sampling.

1986- 1992: Research Assistant, Desert Research Institute (DRI).

Ph.D. Research assistant (5/1989-5/1992): Developed a method for analyzing cyclonic storms and their modification by the Sierra Nevada Mountains using measurements of stable water isotope ratios, microwave radiometers, K-band radar and ice crystal observations. Developed a conceptual model for winter storm microphysics over the central Sierra Nevada.

M.S. Research Assistant (8/1986-5/1989): Designed a water vapor trap for cloud chemistry studies and prepared formvar replica of ice-crystals for cloud liquid water and isotope studies. Estimated bulk cloud liquid water regions in winter storms over the Sierra Nevada from ground based isotope, radiometer and ice crystal measurements.

1984-1986 Lecturer I, Asmara University

Lecturer-I (1984-1986): In addition to teaching courses and designing modern physics laboratory courses for senior students in the physics department, held a research appointment in the institute for appropriate technology on bio-gas production and solar energy research. Investigated optical and electrical properties of soil suspension and rock crush solutions for alternative soil fertilization studies.

TEACHING EXPERIENCE

I have extensive involvement in teaching, curriculum design, and delivery of the subject matter in class as well as in professional setting. I have summarized below my classroom teaching history.

	Year	Fall	Spring
	2014		PHYS-019: Atmospheric Measurements PHYS 183: Physical Mechanics II
Howard University	2013	PHYS-002: General Physics PHYS 182: Physical Mechanics	PHYS-001: General Physics PHYS 183: Physical Mechanics II +ATMOS 301, Current Topics
	2012	PHYS-002: General Physics. PHYS 182: Physical Mechanics	Physics 702/WRTG Experimental Physics I – WRTG PHYS 183: Physical Mechanics II
	2011	+ATMOS 301, Current Topics PHYS 182: Physical Mechanics I	Physics 702/WRTG Exp. Physics I – WRTG +ATMOS 391, Special Topics (2cr)
	2010	PHYS-002: General Physics.5 crs, Recitation	PHYS-002: General Physics.5 crs, Recitation, Physics 702/WRTG Experimental Physics I - WRTG
	2009	PHYS-002: General Physics.5 crs, Recitation, ATMOS 301, Current Topics	PHYS-002, General Physics. Recitation, +ATMOS 301, Current Topics
	2008	PHYS-182: Physical Mechanics, +ATMOS 301, Current Topics	PHYS-001, General Physics. Recitation,
	2006*		+* Aerosol and cloud Physics (3 credits)
	2005*	+* Aerosol and cloud Physics (3 credits)	*+Atmospheric Instrumentation
UMBC			
	2002		+*PHYS-622, Atmospheric physics II
	2001		+PHYS-622, Atmospheric physics II
	1999	PHYS-622, Atmospheric physics II	
Asmara University	1986-86	<i>PHYS200</i> : General physics (second year students),	Advanced Physics Laboratory (seniors).
	1984-85	<i>PHYS-100</i> : General physics course	Laboratory course and assisted in grading upper level courses
Other:	2005	Guest lecture Cloud Physics: Ice Microphysics and cloud physics instrumentation. University of Virginia, Charlottesville, VA. (1 April 2005). <i>Contact</i> : Prof. Jose Fuentes	
	2007 2005	Organized and delivered several sections on Lidars and Atmospheric Applications for the American Meteorological Society – Annual Meeting.	

* Courses taught without compensation

+ Graduate courses

Student Mentorship/Advising:

Current students:

Lorenza Cooper: *Application Microwave Radiometry in Nowcasting/Forecasting. A special case of the Derecho of June 2010 in the DC-region*

Sium Tesfay: *From Global to regional climate trends. A re-analysis of the climate profile wind, water vapor, and temperature record in the Northeast US.*

Churchill Okonkwo: *Characterization of the relationship between West African jet streams and ENSO: Implications on Lake Chad level variability*

Past Students

Mengsteab Weldegabre*: Graduation Date: May 2009. Dissertation Title: *Investigation of Stable and Unstable Boundary Layer Phenomena using Observations and a Numerical Model.*

*Mengsteab graduated from the Physics Department at the University of Maryland Baltimore County. Advising was done in partnership with Dr. Lynn Sparling of UMBC and myself – as an adjunct.

Tulu Bacha: Completed Spring 2012 Dissertation Title: *Effects of GLOW performance and temperature measurements using Goddard Lidar Observatory for Winds (GLOW) lidar.* Now at Rutgers University – Post Doc.

Aaron Poyer: August 2009 – 2010 – Withdrawn (Family Issues; Employed by NOAA/NWS).

Aaron Miller: August 2009 – 2011 – Withdrawn (Employed by NOAA/NWS).

Ravindra Peravali Ph.D. UMBC, EE and CS); Candidacy suspended 1/2000 due to illness.

Student Ph.D. and M.Sc. Dissertation Committee

Served in various capacities: – as committee member, Chair, external adviser, etc. Please Contact me if you would like to discuss a specific student. So far I have served over 38 Ph.D/MSc. committees.

Cassie Stern (Ph.D – HUPAS/2014-expected),	Charlene Lawson (Ph.D – HUPAS/2014-expected)
Tamil Maldonado (Ph.D. – HUPAS/2015 expected)	Tasha Suomo (MSc. – HUPAS/2014-expected)
Mamadou Mbaye (Ph.D – Physics/2014-expected)	Daniel Casmir(Ph.D – Physics/2015-expected)
Jose Tirado (Ph.D - HUPAS/2016-expected)	Ashford Reyes (Ph.D. – HUPAS/2016-expected)
Kim Whitehall (Ph.D. – HUPAS/2016-expected)	Felisha Lawrence (PhD. HUPAS/2016-expected)
Nelsie Ramos(Ph.D –HUPAS/2013@UPR)	Jonathan Clark (M.Sc. HUPAS/2013@??)
Karina Apodaca, (Ph.D –HUPAS/2010@NOAA)	Marangelly Fuentes(Ph.D –HUPAS/2010@CIRES)
Isha Renta, (Msc. –HUPAS/2010@??)	Gino Davis (Msc. Physics/2013 @climateCentral)
Julius Grant (Ph.D - Physics/2013@Howard)	Jonathan Smith (Ph.D - HUPAS/2012@NOAA)
Monique Walker(Ph.D - Physics/2013@NASA),	Yaitza Luna (Ph.D –HUPAS/2013@UPR)
Scott Rabenhorst*: (Ph.D. - UMD/2012@UMBC)	Micheal Hicks (Ph. D. - HUPAS/2012, @NWS)
Tamara Battle (M. sc. HUPAS/2012@NSF)	Seagayle Waford (Ph.D.- HUPAS/2009@NGIA)
Aaron Pratt: (Ph.D. HUPAS/2009@NCEP),	Toreon Creekmore: (Ph.D. HUPAS/2009@NGIA).
Rasheen Connell: (Ph.D./2009, HU, Physics)	Michelle Farver (M.Sc./2006, HU, Physics/HUPAS),
Jamese Sims : (Ph.D. HUPAS/2009@NOAA)	Jose Tirado: (Msc. /2009, HU, HUPAS)
Isha Renta: (Ph.D./2008, HU, HUPAS)	Felicita Russo (Ph.D. UMBC/2007@ISPERA)
Hassan Moore (Ph.D./2006, HU, Physics), –	Lavar Young (M.Sc./2006, HU, Physics/HUPAS),
Lizette Roldan (Ph.D./2006, HU, Physics/HUPAS)	Angelina Amadou (Ph.D./2006, HU, Physics)
Ahmed Farrah (Ph.D./2000, HU, Physics)	Dan Wooten (M.Sc./1999, UMBC, Physics)

Undergraduate Mentoring (Post 2008 only)

2008: Jose Conde (UPRM, Physics)#

2009: Morgan Jones (HU-Physics)+ Randy Radford (Bowie/Math)+
Adam Tulu (UMD-Chem)+ Rosaline Akpaudo (HU/Physics)+
Michael Gallion (HU, ME)+ Jennifer Kelso (HU, ME)+

2010: Danh Tranh (UMD-EE)* Jerome Puzza (UMD-EE)+
Nick Stewart (HU-Biology)+

2011: Gregory Benjamin (HU-Physics)* Nick Sneed (HU-Physics)*
Rashae Prasad (Physics)* Marissa Washington (Norfolk State)*
Jonathan Charleston (MIT/CS)+ David Makkers (GTech, EE)+

2012: Khalil Dixon (HU-Physics)+ Stanford Carter (HU-Physics)+
Ryan M. Jones (PSU/Meteo)+ Marry Morris (PSU/Meteo)+

**Funded by NSF OEDG grant.*

+ Funded through NASA/URC grant.

Funded through NCAS

OBSERVATIONAL/FIELD EXPERIENCE

2012: NCAR-NWS-DoE-PSI-Montana Univ. DIAL Validation at Howard University

2010: Barbados Deployment and Ozone sonde launch

2008-2009: Proposed and organized the first ground demonstration of NASA Decadal survey proposed 3D-wind lidar measurement technique at Howard University Beltsville Campus.

2006-2008: WAVES2006 Experiment: Organizer/Co-Lead at HU-Beltsville. A series of experiments to quantify water vapor measurement errors using sonde and lidars.

2002-2003: Participated in AIRS/AQUA validation and AWEX at SGP/DOE/ARM.

2002: International H2O Project (IHOP_2002) - PI

2000: ARM-WVIOP-III and AFWEX (ARM – FIRE Water Vapor Experiment), October-December 2000. CART, OK.

1998: NASA 3rd Convection And Moisture EXperiment (CAMEX-III), 6 August - 23 September 1998, Andros Island, Bahamas.

1997: Atmospheric Radiation Measurement (ARM), water vapor operation at CART (Cloud and Radiation Test Bed) site near Lamont, OK.

1996: SUCCESS (SUBsonic aircraft Contrail and Cloud Effects Special Study) at Salina, KS.

1993-1994: Organized and participated in cloud/fog sampling experiments at Mt. Mitchell, NC; White Mt., NY; La Jolla Pk, CA; Bakersfield, CA; Nehalem, OR; Bondville, IL and Woodland, CA while a post doc at Univ. Illinois.

1992: Aircraft Instrumentation at NCAR, Colorado. May 1991. (*See Bull. Amer. Meteor. Soc., 74, 17-22, 1993*)

1991: WISP (Winter Icing Storm Projects) at NOAA (in Collaboration with Ed Westwater of WPL/NOAA).

1990: CSU-CHILL radar: at NCAR, Colorado. October 1989. (*See Bull. Amer. Meteor. Soc., 71, 1637-1641, 1990*)

1987-91: NOAA/Nevada cloud seeding programs at DRI.

SOCIETY MEMBERSHIP

American Meteorological Society
American Geophysical Union
Public Relations Officer, Association of Eritrea Professionals and Academics for Development (1996 – 1998)
Secretary (2007-2011) and Advisory Board Chair (2011-2014) at the DebreSelam Medhanie Alem Coptic Church, Washington DC.

AWARDS

2007 Performance Award – NASA/GSFC
2006 Performance Award – NASA/GSFC
2005-2007: NASA Administrators Fellow (NAFP): August-2005 – August-2007
2005 Editors' Citation for Excellence in Refereeing for JGR-Atmospheres
2005 Performance Award – NASA/GSFC
2005 NASA Special Act Awards (for efforts in support of education and outreach)
2004 NASA Special Act Awards (for efforts in support of education and outreach)
2004 Performance Award – NASA/GSFC
2003 Performance Award – NASA/GSFC
2003 NASA Group Achievement Award: CRYSTAL-FACE Science Team, 2003
1993 Certificate of Merit, American Chem. Soc. 26th Nat. Mtg., 25 August 1993
1988 First place, Peter B. Wagner Award, DRI 1988

PROFESSIONAL ACTIVITIES: Service and Leadership

Editorship:

2005-2008: *Co-Editor* Journal of Geophysical Research - Atmospheres.
2008-Present: *Associate Editor* Journal of Geophysical Research - Atmospheres.
2007-Present: *Associate Editor:* Earthzine.org

Co-Chair and Organizer of International Meetings:

2014: **Convener and Chair** – 6th GRUAN Implementation Workshop. (WWW.GRUAN.org)
2013: Convener and Chair, 6th Symposium on lidar Atmospheric Applications, 93rd Annual Meeting of the American Meteorological Society, 6-10 January 2013; Austin, TX.
2011: Thermodynamic Profiling Technologies Workshop UCAR Center Green #1 Boulder, Colorado 12-14 April 2011; Chair a Session on Optical Active Profiling.
2011: Convener and Chair, 5th Symposium on lidar Atmospheric Applications, 91st Annual Meeting of the American Meteorological Society, 23-27 January 2011; Seattle, WA.
2009: Convener and Chair, 4th Symposium on lidar Atmospheric Applications, 89th Annual Meeting of the American Meteorological Society, 1–15 January 2009, Phoenix, Arizona
2008: 1st- Symposium on Recent Developments in Atmospheric Applications of Radar and Lidar *The 88th Annual Meeting of the American Meteorological Society (20-24 January 2008)*, New Orleans, LA http://ams.confex.com/ams/88Annual/techprogram/program_455.htm
2007: 3rd Symposium on lidar Atmospheric Applications. *The 87th American Meteorological Society Annual Meeting*, 13-18 January 2007; San Antonio, TX
<http://ams.confex.com/ams/87ANNUAL/techprogram/MEETING.HTM>
2005: 2nd Symposium on lidar Atmospheric Applications, *The 85th Annual Meeting of the American Meteorological Society*, January 9-13, San Diego, CA San Diego, CA.
2003: **Convener**, The first IHOP2002 Convection Initiation workshop, 30 September–1 October, 2002. Joint Center for Earth Systems (JCET), UMBC
http://www.eol.ucar.edu/dir_off/projects/2002/IHOPci/IHOP_CI.agenda.pdf

International/National Committee and other:

- 2012-Present** Member: The AOPC Working Group on Atmospheric Reference Observations (WG-ARO), World Meteorological Organization, 2011-Presenter
- 2012-Present** Member, Aerosol Clouds and Trace gases Research InfraStructure Network (ACTRIS) Selection Committee
- 2011** Reviewer, NOAA/ARL Laboratory Review Team
- 2007-2013** Chair, American *Meteorological Society* Committee on Laser Atmospheric Studies
<http://ametsoc.org/stacpges/CommitteeDisplay/CommitteeDisplay.aspx?CC=LASERA>
[TMOS](#)
- 2007** NASA/SMD Visiting Program Manager for NASA Earth Science Systems Fellowship, NASA, Head Quarters, Washington, DC
- 2007-2008** **Team Member:** NASA Student Collaboration (SC) Program Definition Team-2007
http://nasascience.nasa.gov/researchers/sara/library-and-useful-links/Student_Collab_Def_Final_Report.pdf
- 2005-2007** **NASA Administrators Fellow:** *A Competitive NASA 2-year award. One year was spent teaching cloud physics and Instrumentation at Howard University*
- 2005-2004** **Organizer and Lecturer:** American Meteorological Society Short Course on *Lidar for meteorologists*. The 85th Annual Meeting of the American Meteorological Society, January 9, 2005, San Diego, CA San Diego, CA.
- 2003-2006** **Member**, American Meteorological Society *Committee on Laser Atmospheric Studies*.
- 2002** **Lead and organized** NASA/GSFC participation in the International H2O Project (IHOP), 2002. http://www.eol.ucar.edu/dir_off/projects/2002/IHOP.html
- 2006-2008** WAVES2006 Experiment: Organizer/Co-Lead.
- 2000-2002** **Group Leader;** observation focus group in JCET-UMBC (2000-2002).
<http://jcet.umbc.edu/>

College and Department and College Committees

- 2013 – Present** Chair, Appointment, Promotion and Tenure
- 2012 - Present** Member, Interdisciplinary Program Development (COAS)
- 2009-Present** Mentor/Advisor: Graduate Student Association for Atmospheric Science (GSAAS).
- 2011-Present** College Judiciary Committee (COAS)
- 2011 – 2014** Director of Graduate Physics Studies
- 2009 - 2010** Chair, Qualifying exam committee
- 2009** Chair, Undergraduate Curriculum Committee;
- 2008** Member: Recruitment Committee; Seminar, qualifying exam Committee;
- 2009** Elected Secretary: Natural Science Faculty: Elected Secretary in June 2008.
- 2009** Faculty Roundtable: Graduate Studies and Research at Howard University. Alliance for Graduate Education and the Professoriate (AGRP) Howard University visitation program September 28-30, 2008
- 2009** COAS 4th Annual symposium on undergraduate research 6-7 April, 2009: Judge

Service as a Reviewer:

Ad hoc reviewer: Journal of Geophysical Research, Journal of the Atmospheric Sciences, J. Atmos. Oceanic Technol., J. Appl. Meteor., J. Geophys Res., the Cooperative Grants Program of the U.S. Civilian Research and Development Foundation (CRDF), the Canadian Foundation for Climate and Atmospheric Sciences (CFCAS), Monthly Weather Review, Journal of the Meteorological Society of Japan. **Proposal reviewer:** National Science Foundation, Cooperative Grants Program of the U.S. Civilian Research and Development Foundation (CRDF), the Canadian Foundation for Climate and Atmospheric Sciences (CFCAS), NASA, NASA/SBIR, NASA/ACT, NWS/SBIR.

Demoz's Grants Contd.							
Prabhakar Misra (PI); Belay Demoz (Co-PI); Gregory Jenkins; Demetrius Venable	\$299,964.00	NSF/HRD	3/7/2015	Awarded	TARGETED INFUSION GRANT: Enhancement of the Undergraduate Physics Program in the Department of Physics and Astronomy at Howard University	Claudia M. Rankins	
Gregory Jenkins (PI); Belay Demoz (Co-PI)	\$476,731.00	NSF/AGS	12/31/2013	Awarded	Understanding Northern Hemisphere (NH) Summer Season Tropospheric Ozone Variability across the Northern Tropical Atlantic through Focused Upstream/Downstream Campaigns	Sylvia A. Edgerton	
Gregory Jenkins (PI); Belay Demoz (Co-PI)	\$193,700.00	NSF/GEO	12/31/2013	Awarded	Local, National and International research field experiences in the atmospheric sciences for underrepresented groups	Jill L. Karsten	
Belay Demoz (PI) With Bruce Gentry (GSFC)	\$348,104.00	NASA (ROSES2007)	8/15/2013	Selected	Multi-year direct detection Doppler lidar tropospheric wind measurement program to assess instrument performance in a wide variety of atmospheric conditions	Bruce Gentry and Ramesh Kakar	Pass through - GSFC
Everette Joseph (PI), Belay Demoz (Co-PI). Demetrius Venable (Co-PI)	\$6,000,000.00	NASA	12/31/2014	Selected	Howard University Beltsville Center for Climate System Observation		
Veron Morris (PI), Belay Demoz (Co-PI)	\$12,000,000.00	NOAA	10/1/2016	selected	Atmospheric Science Cooperative Science Center		
Total	\$21,073,777.00						

PUBLICATIONS

- 1) Rabenhorst, S., D. N. Whiteman, D. Zhang, D. Demoz (2014): A Case Study of Mid-Atlantic Nocturnal Boundary-Layer Events During WAVES 2006. Part I: Observational Detection of Fine Scale Phenomena. *Submitted to the Journal of Geophysical Research – Atmospheres.*
- 2) Lin, Z., B. Gentry, Z. Pu, B. Demoz, H. Chen (2014); Characteristics of atmospheric wind profiles from Goddard Lidar Observatory for Wind (GLOW) during IHOP 2002. *Submitted to Remote Sensing of the Environment.*
- 3) Emory, A. E, B. Demoz, K. Vermeesch, and M. Hicks (2014): Double Bright Band Observations with High-Resolution Vertically Pointing Radar, Lidar, and Radiometer. *Accepted (With Revision) JGR- Atmospheres.*
- 4) Kevin C. Vermeesch, K. C., B. M. Gentry, H. Chen, B. Demoz (2014): Comparison of GLOW Wind Lidar and Vaisala RS92 Radiosondes. *Accepted (With Revision) Journal of Atmospheric and Oceanic Technology.*
- 5) Weldegaber, M, B. Demoz, L. Sparling, K. Vermeesch, R. Delgado, R. Hoff (2013): A Modeling Study of Summer Low-Level-Jets over the Mid-Atlantic Region, In review (*Accepted, with revision*). *Meteorology and Atmospheric Physics.*
- 6) Okonkwo C.O., Demoz B., Tesfai, S., 2014. On the association between West African jet streams, ENSO events and rainfall in ERA- Interim 1979 – 2011, Characterization of West African Jet Streams and Their Association to ENSO Events and Rainfall in ERA-Interim 1979–2011," *Advances in Meteorology*, vol. 2014, Article ID 405617, 12 pages, 2014. doi:10.1155/2014/405617
- 7) Delgado, R., S. D. Rabenhorst, B. B. Demoz, R. M. Hoff (2014): Elastic Lidar Measurements of Summer Nocturnal Low Level Jet Events over Baltimore, Maryland. *Accepted. Journal of Atmospheric Chemistry.* DOI:10.1007/s10874-013-9277-2
- 8) Okonkwo, Churchill, Belay Demoz & Kyrian Onyeukwu (2013) Characteristics of drought indices and rainfall in Lake Chad Basin, *International Journal of Remote Sensing*, 34:22, 7945-7961, DOI: 10.1080/01431161.2013.827813.
- 9) Fassò, A., Ignaccolo, R., Madonna, F., and Demoz, B. B. (2013): Statistical modelling of collocation uncertainty in atmospheric thermodynamic profiles, *Atmos. Meas. Tech. Discuss.*, 6, 7505-7533, doi:10.5194/amtd-6-7505-2013, 2013.
- 10) Jenkins, G, S.,M. L. Robjhon*, B. Demoz, W. R. Stockwell, S. A. Ndiaye, M. S. Drame, M. Gueye, J. W. Smith*, Y. Luna-Cruz*, J. Clark*, J. Holt#, C. Paulin#, A. Brickhouse#, A. Williams#, A. Abdullah#, A. Reyes*, L. Mendes, A. Valentine, M. Camara (2013): Multi-site tropospheric ozone measurements across the north Tropical Atlantic during the summer of 2010. *Atmospheric Environment.*70 131-148.
- 11) Stockwell, W, V. Morris, E. Joseph, B. Demoz, D. Venable, G. S. Jenkins and T. Yu (2012): Experiential Teaching and Research in the Atmospheric Sciences for Minority Students. *Accepted. Environment Manager (EM) Magazine, Published by the Air and Waste Management Association.*
- 12) Fuentes J. D. and D. Doughty, B. Demoz, and I. Mitrea (2012): Increasing Diversity in Geosciences Through Experiential Learning. *Eos*, Vol. 93, No. 51, 18 December 2012.

- 13) Thorne, P. et al, (2012): GCOS Reference Upper Air Network (GRUAN): Steps Towards Assuring Future Climate Records. *Proceedings of the 9th International Temperature Symposium Los Angeles, CA on March 19 - 23, 2012*. Published by the American Institute of Physics Volume 8 of Temperature: Its Measurement and Control in Science and Industry.
- 14) Hoff, R. M., Hardesty, F. Carr, T. Weckwerth, S. Koch, A. Benedetti, S. Crewell, N. Cimini, D. Turner, W. Feltz, B. Demoz, V. Wulfmeyer, D. Sisterson, T. Ackerman, F. Fabry, K. Knupp (2011): Thermodynamic Profiling Technologies Workshop – a Report to NSF and NWS. [*Demoz wrote the Active Remote Sensing – Lidar Chapter*].
- 15) Weldegaber, M., B. Demoz, Lynn Sparling and Sen Chiao (2011): Observational Analysis of Moisture Evolution and Variability in the Boundary Layer during the Dryline on 22 May 2002 (IHOP_2002). *Meteorology and Atmospheric Physics*: Volume 110, Issue 3 (2011), page 87.
- 16) Koch, J. G, J. Y. Beyon, P. J. Petzar, M. Petros, J. Yu B. Trieu, M. J. Kavaya, U. Singh, E. Modlin, B. Barnes, B. Demoz (2010): Field Testing of a high-Energy 2 um Doppler Lidar: *Journal of Applied Remote Sensing, Vol. 4, 043512 (2 March 2010)*.
- 17) Adam. M, **B.B. Demoz**, D.N. Whiteman, D.D.Venable, E.Joseph, A.Gambacorta, J. Wei, M.W. Shephard, L.M. Miloshevich, C.D. Barnet, R.L. Herman, J. Fitzgibbon, and R. Connell, 2010: Water vapor measurements by Howard University Raman Lidar during the WAVES 2006 campaign, *J. Atmos. Ocea. Tech.*, 27, 42-60.
- 18) Diamond et al. (2009): The United States National Plan for Implementing the Global Climate Observing System (GCOS) Reference Upper Air Network (GRUAN) for FY2009 and Beyond.
- 19) Rickenbach, T., P. Kucera, M. Gentry, L. Carey, A Lare, R.-F. Lin, B. Demoz, and D. Starr, 2008: The relationship between anvil clouds and convective cells: A case study in South Florida during CRYSTAL-FACE , *Mon. Wea. Rev.*, 136, 3917-3932.
- 20) Shermane Austin, Sven Bilén, Supriya Chakrabarti, Emily CoBabe-Ammann, Belay Demoz, T. Gregory Guzik, Mark Hammergren, Jeremy Kasdin, Chris Kitts, David Klumpar, Michael McGrath, Nilton Renno, David Yoel, (2008): Final Report of the NASA Program Definition Team for Student Collaborations (SC) April 4th, 2008. Available from NASA:http://nasascience.nasa.gov/researchers/sara/library-and-useful-links/Student_Collab_Def_Final_Report.pdf.
- 21) NASA Opportunities for Faculty at minority institutions: reflections of NASA Administer fellows (2007; ACE 2007-504) *Proceedings of the American Society for Engineering Education a part of the IEEE*.
- 22) Behrendt, A., V. Wulfmeyer, P. Di Girolamo, C. Kiemle, H.-S. Bauer, T. Schaberl, D. Summa, D. Whiteman, B. Demoz, E. Browell, S. Ismail, R. Ferrare, S. Kooi, G. Ehret, and J. Wang, 2007: Intercomparison of water vapor data measured with lidar during IHOP_2002, Part 1: Airborne to ground-based lidar systems and comparisons with chilled-mirror hygrometer radiosondes, *J. Atmos. Ocean. Tech.*, 24(1), 3-21 DOI: 10.1175/JTECH1924.1.
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<http://cerberus.rivm.nl/ISTP/pages/index.htm>
- 55) Delgado R, M. Weldegaber, M. Woodman, M. Seybold, B. Demoz, K. J. McCann, D. N. Whiteman, R. M. Hoff (2008): Elastic lidar measurements of summer nocturnal low level jet events over Baltimore *Presented at the 24th International Laser Radar Conference (ILRC), 23 - 27 June 2008, Boulder, CO, USA, ISBN 978-0-615-21489-4.*
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- 57) Whiteman, D. N., M. Adam, C. Barnet1, B. Bojkov, R. Delgado, B. Demoz, J. Fitzgibbon, R. Forno, R. Herman, R. Hoff, E. Joseph, E. Landulfo, K. McCann, T. McGee, L. Miloshevich, I. Restrepo, F. J. Schmidlin, B. Taubman, A. Thompson, L. Twigg, D. Venable, H. Vömel, C. Walthall (2008): The water vapor variability - satellite/sondes (WAVES) field campaigns. *Presented at the 24th International Laser Radar Conference (ILRC), 23 - 27 June 2008, Boulder, CO, USA, ISBN 978-0-615-21489-4.*
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Other publications

- 84) Carter, E.W, and B.B Demoz (1988): A study of the Truckee Meadows inversion: Formation, Breakup and Consequences. First Place, Peter B. Wagner award. Available from Desert Research Institute, P.O. Box 60220, Reno, NV 89506.
- 85) Joseph E, K Sanchez, D Doughty, D Veneable, JD Fuentes, R Connell, Q Min, and B Demoz (2011). Studying Boundary Layer and Air Quality Processes in a Suburban Environment. Atmospheric Sciences Section Newsletter, American Geophysical Union, issue 5: 7-10.

INVITED SEMINARS (partial listing)

1. The Role of Physics in Geosciences: Earth and Atmospheric Physics and Climate Physics: Visualizing the physics of the invisible atmosphere - the role of lidars and radiometers; 80th Annual Meeting of the APS Southeastern Section, Volume 58, Number 17, 2014
2. Thermodynamic Profiling Technologies Workshop UCAR, Boulder, Colorado, 12-14 April 2011.

3. 3rd GRUAN Implementation-Coordination Meeting (ICM-3) Queenstown, New Zealand; 28 February to 4 March 2010; Chair (Site task team overview, and present Beltsville Site report); See <http://gruan.org> for details.
4. 2nd GRUAN Implementation-Coordination Meeting (ICM-2) Payerne, Switzerland; 2 to 4 March 2010; *Site Inventory – Howard University Beltsville, MD, USA.*
5. 1st GRUAN Implementation Coordination Meeting (ICM1): Norman, Oklahoma, USA 24 March 2009 - “The Howard University Beltsville site”.
6. Lidar Working Group on Space-based Lidar Winds August 24-26, 2010 Bar Harbor, Maine; Presented results of the 1st NASA Decadal Survey 3D wind lidar demonstration experiment.
7. Atmospheric science measurements, research, and education at Howard University by Belay Demoz presented at the Goddard Earth Sciences and Technology Center 10th Anniversary Symposium, 7 June 2008. NASA/GSFC, Greenbelt, MD.
8. Climate and Radiation Research Branch (Code 613.2) March 16, 2011.
9. Ceilometer Networks and Mixing Layer Height A Concept Stud Presented at the Meteorological Observatorium Lindenberg, DWD, Lindenberg, Germany, 9/23/2008.
10. Demoz BD (2004). NASA/GSFC lidar systems and their application in IHOP. Presented in at the 1st COPS Workshop, Universität Hohenheim, Stuttgart, Germany.
11. Demoz BD (2004). Lidar applications in boundary layer studies and convective processes. Department of Environmental Sciences, University of Virginia. 19 February.
12. Demoz BD (2000). Raman lidar applications in mesoscale processes. Department of physics and Astronomy, Howard University, Washington DC.
13. Demoz BD (1996). Discussions on weather modification, Department of Physics, University of Asmara, Asmara, Eritrea.

CONFERENCE PRESENTATION (Partial listing only)

1. Okonkwo, C., Demoz, B., 2013. On the relationships between Sahel precipitation, SST teleconnections and jet streams: a wavelet analysis. Fall meeting, American Geophysical Union (AGU) San Francisco, December 9-13 2013
2. Whitehall, Kim, G. S. Jenkins, C. Mattmann, B. B. Demoz, and R. Rwebangira Exploring W. Africa Mesoscale Convective Complexes (MCCs) Spatio-Temporal and Convective Characteristics in Satellite Data using Open Climate Workbench.

The following papers were presented at the 91st American Meteorological Society Annual Meeting: 23-27 January 2011; Seattle, WA

3. M. Hicks¹, R. Connell¹, B. Demoz¹, S.-L. Kang², E. Joseph¹, J. Facundo³, D. D. Venable¹ (2011): Lidar-sonde-radiometer based analysis of boundary layer heights (BLHs) <http://ams.confex.com/ams/91Annual/webprogram/Paper187190.html>.
4. Jeffery T. McQueen, NOAA/NWS/NCEP, Camp Springs, MD; C. M. Tassone, M. Tsidulko, Y. Zhu, L. Cucurull, G. Manikin, G. DiMego, B. Lapenta, M. Simpson, W. Pendergrass, C. Vogel, E. J. Welton, E. L. Joseph, M. Hicks, B. Demoz, R. M. Hoff and R. Delgado (2011) An Ad-Hoc PBL variability experiment over the Washington, DC area <http://ams.confex.com/ams/91Annual/webprogram/Paper184079.html>.

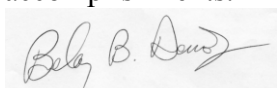
5. Zhaoxia Pu, and L. Zhang, B. B. Demoz, and B. Gentry The impact of GLOW wind profile data on numerical simulation of a warm season convection observed during IHOP_2002 (2011): <http://ams.confex.com/ams/91Annual/webprogram/Paper181660.html>.
6. Kevin Vermeesch, SSAI, Greenbelt, MD; and B. Gentry, G. J. Koch, M. Boquet, H. Chen, U. Singh, B. B. Demoz, and T. Bacha; (2011): Comparison of wind measurements at the Howard University Beltsville Research Campus <http://ams.confex.com/ams/91Annual/webprogram/Paper181653.html>.
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I certify that the contents of this curriculum vitae are a complete and accurate record of my accomplishments.



04/29/2014

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