ODELE M. CODDINGTON - CURRICULUM VITAE (WITH PUBLICATIONS)

Personal Data:

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Education: **B. A.**, University of Colorado Boulder, 2002, in Physics.
Ph.D., University of Colorado Boulder, 2009, in Atmospheric and Oceanic Science

Professional Positions held:

- Research Associate II, Laboratory for Atmospheric and Space Physics, University of Colorado Boulder, 2013 to present.
- Research Associate I, Laboratory for Atmospheric and Space Physics, University of Colorado Boulder, 2009 to 2013.

Professional Activities:

- Total and Spectral Solar Irradiance Sensor (TSIS) Co-Investigator.
- Pre-Aerosol, Clouds, and ocean Ecosystem (PACE) science team member.
- Solar Irradiance Science Team (SIST) member.
- Reviewer for manuscripts submitted to the *Journal of Atmospheric Sciences*, *Atmospheric Chemistry and Physics*, *Atmospheric Measurement Techniques*, and *IEEE Transactions on Geoscience and Remote Sensing*.
- Reviewer of proposals submitted to the NASA *Remote Sensing Theory* program.
- Member, American Geophysical Union, American Meteorological Society, and American Physical Society.

Service

- International Space Science Institute (ISSI) Team Member (2017) on "Towards a unified solar irradiance record for climate studies".
- Conference Organizing Committee Member and Session Chair (2015) for the Sun-Climate Symposium, 10-13 Nov 2015, Savannah, GA.
- LASP Committee Member (2015) for assessing Education and Public Outreach (EPO) and Communications at LASP and make lab recommendations for current and future directions.
- LASP search committee (2015) to seek a new director of the Office of Communication and Outreach (OCO).
- Poster Judge (2014) Earth System & Space Science Poster Conference, November 14, 2014, Boulder, CO.
- LASP committee member (2014) to evaluate an individual's promotion.
- Lead Content Developer (2013) for the Sun-Climate Research Center (SCRC) public-facing webpage, a joint effort between LASP and Goddard Space Flight Center.

- Interim chair (2013; 6 month post while chair was absent due to work) for LASP's Education and Public Outreach committee to develop the vision and implementation of the lobby exhibit for the LASP Space Science building.
- Poster Judge (2013) Earth System & Space Science Poster Conference, Boulder, CO.

Education and Public Outreach:

- Mentor LASP/ATOC Atmospheric Radiation Group (2009-present)
- LASP Public Lecture (2015), *LASP and the ISS: Future Measurements of Solar Irradiance and the Continuation of a Climate Date Record*
- Solar and Space Physics REU Mentor (2015), *The Sun's Statistics: Developing a Composite Mg-II Record using a Bayesian Approach to Source Separation – with student Lindsay Rand*
- Solar and Space Physics REU Mentor (2014), *Bayesian approaches to developing long-term data records: A composite Mg-II record - with student Sarah Swenson*
- Solar and Space Physics REU Co-Mentor (2012), *As the sun turns: Changes in spectral irradiance at ultraviolet, visible, and infrared wavelengths due to solar rotation - with student Lauren Bearden*
- LASP Public Lecture (2011), *Clouds in the Earth's Lower Atmosphere; Views from Near and Far give Insight into their Regulation of Climate*
- Solar and Space Physics REU Co-Mentor (2011), *Climate change during the recent solar cycle minimum - with student Christopher Maloney*
- Solar and Space Physics REU Mentor (2010), *Using a generalized nonlinear method to characterize the retrievals of cloud optical thickness and effective radius from passive remote sensing - with student Leandra Merola*

Publications:

16 peer reviewed articles in major journals.
3 non-peer reviewed technical documents.
2 published data sets.
2 published abstracts.
50+ contributed conference presentations.

Peer-reviewed publications (in reverse chronological order):

16. **Coddington, O**., T. Vukicevic, K. S. Schmidt, and S. E. Platnick, Characterizing the information content of cloud thermodynamic phase retrievals from the notional PACE OCI shortwave reflectance measurements, *JGR-Atmos*., (*under revision 4/19/2017*).

15. Coddington, O., J. Lean, P. Pilewskie, and T. Woods (2017), Newly released climate data records of total and spectral solar irradiance are based on SORCE observations, *GSICS* (*in production*).

14. Kren, A., P. Pilewskie, and **O. Coddington** (2017), Where does Earth's atmosphere get its energy?, *J. Space Weather and Space Clim*., 7, doi:10.1051/swsc/2017007.

13. Song, S., K. S. Schmidt, P. Pilewskie, M. D. King, S. Platnick, A. Heidinger, A. Walther, H. Iwabuchi, and **O. Coddington** (2015), The spectral signature of cloud spatial structure in shortwave irradiance, *Atmos. Chem. Phys*. *Disc.*, doi:10.5194/acp-2015-911, *accepted*.

12. **Coddington, O**., J. Lean, P. Pilewskie, M. Snow, and D. Lindholm (2015), A solar irradiance climate data record, *Bull. Amer. Meteor. Soc.*, doi:10.1175/BAMS-D-14-00265.1.

11. LeBlanc, S., P. Pilewskie, K. S. Schmidt, and **O. Coddington** (2014), A spectral method for discriminating thermodynamic phase and retrieving cloud optical thickness and effective radius using transmitted solar radiance spectra, *Atmos. Meas. Tech*., 8, 1361-1383, doi:10.5194/amt-8-1361-2015.

10. **Coddington, O**., P. Pilewskie, K. S. Schmidt, P. J. McBride and T. Vukicevic (2013), Characterizing a new surface-based shortwave cloud retrieval based on transmitted radiance for soil and vegetated surface types, special topic issue "Advances in Studies of Atmospheric Aerosol and clouds Using Remote Sensing Techniques", *Atmosphere*, 4(1):48-71.

9. **Coddington, O**., P. Pilewskie, and T. Vukicevic (2012), The Shannon information content of hyperspectral shortwave cloud albedo measurements: Quantification and practical applications, *J. Geophys. Res*., 117, D04205, doi:10.1029/2011JD16771.

8. Kindel, B. C., P. Pilewskie, K. S. Schmidt, **O. Coddington**, and M. D. King (2011), Solar spectral absorption by marine stratus clouds: Measurements and modeling, *J. Geophys. Res*., doi: 10.1029/2010JD015071.

7. R. W. Bergstrom, K. S. Schmidt, **O. Coddington**, P. Pilewskie, H. Guan, J. M. Livingston, J. Redemann, and P. B. Russell (2010), Aerosol spectral absorption in the Mexico City area: results from airborne measurements during MILAGRO/INTEX B, *Atmos. Chem. Phys*., 10, 6333-6343.

6. Vukicevic, T., **O. Coddington**, and P. Pilewskie (2010), Characterizing the retrieval of cloud properties from optical remote sensing, *J. Geophys. Res.*, 115, D20211, doi:10.1029/2009JD012830.

5. Schmidt, K.S., P. Pilewskie, R. Bergstrom, **O. Coddington**, J. Redemann, J. Livingston, P. Russell, E. Bierwirth, M. Wendisch, W. Gore, M. K. Dubey, and C., Mazzoleni (2010), A new method for deriving aerosol solar radiative forcing and its first application within MILAGRO/INTEX-B, *Atmos. Chem. Phys*, 10, 7829-7843.

4. **Coddington, O**., P. Pilewskie, J. Redemann, S. Platnick, P. B. Russell, K. S. Schmidt, W. Gore, J. Livingston, G. Wind, and T., Vukicevic (2010), Examining the impact of overlying aerosols on the retrieval of cloud optical properties from passive remote sensing, *J. Geophys. Res.,* doi:10.1029/2009JD012829.

3. Schmidt, K. S., G. Feingold, P. Pilewskie, H. Jiang, **O. Coddington**, and M. Wendisch (2009), Irradiance in polluted cumulus fields: Measured and modeled cloud-aerosol effects, *Geophys. Res. Lett.*, *36*, L07804, doi:10.1029/2008GL036848.

2. Livingston, J. M., J. Redemann, P. B. Russell, O. Torres, B. Veihelmann, P. Veefkind, P., R. Braak, A. Smirnov, L. Remer, R. W. Bergstrom, **O. Coddington**, O., K. S. Schmidt, P. Pilewskie, R. Johnson, and Q. Zhang (2009), Comparison of aerosol optical depths from the Ozone Monitoring Instrument (OMI) on Aura with results from airborne sunphotometry, other space and ground measurements during MILAGRO/INTEX-B, *Atmos. Chem. Phys.,* 9, 6743-6765.

1. **Coddington, O**., K. S. Schmidt, P. Pilewskie, W. J. Gore, R. W. Bergstrom, M. Román, J. Redemann, P. B. Russell, J. Liu, and C. C. Schaaf (2008), Aircraft measurements of spectral surface albedo and its consistency with ground-based and space-borne observations, *J. Geophys. Res.*, *113*, D17209, doi:10.1029/2008JD010089.

Other articles (Technical reports and non-peer reviewed publications):

Coddington, O., and J. Lean (2015), Climate Algorithm Theoretical Basis Document Total Solar Irradiance and Solar Spectral Irradiance, CRDP-ATBD-0612, Available from http://www1.ncdc.noaa.gov/pub/data/sds/cdr/CDRs/Solar%20Spectral%20Irradiance/AlgorithmDescription.pdf (Accessed 4 October 2015).

Richard, E., **O. Coddington**, D. Harber, M. Triplett, et al. (2013), TSIS Calibration and Validation Plan, LASP Technical Document.

Coddington, O., P. Pilewskie, E. Richard, G. Kopp, J. Lean et al., Total Solar Irradiance Sensor (TSIS): Algorithm Theoretical Basis Documents (ATBD) (*draft submitted 10/29/2013*).

Published Data Sets:

Coddington, O., J. Lean, D. Lindholm, P. Pilewskie, M. Snow, and NOAA CDR Program (2015), NOAA Climate Data Record (CDR) of Solar Spectral Irradiance (SSI), Version 2. NOAA National Centers for Environmental Information, doi:10.7289/V51J97P6.

Coddington, O., J. Lean, D. Lindholm, P. Pilewskie, M. Snow, and NOAA CDR Program (2015), NOAA Climate Data Record (CDR) of Total Solar Irradiance (TSI), Version 2. NOAA National Centers for Environmental Information, doi:10.7289/V55B00C1.

Published Abstracts:

Coddington, O. M., P. Pilewskie, and B. C. Kindel (2015), Attribution of Earth-reflected Hyperspectral Data using Bayesian Positive Source Separation, in *Fourier Transform Spectroscopy and Hyperspectral Imaging and Sounding of the Environment*, OSA Technical Digest (online) (Optical Society of America, 2015), paper HT3B.5.

Coddington, O., P. Pilewskie, and T. Vukicevic (2011), Quantifying the Information Content of Hyperspectral Cloud Data, in *Hyperspectral Imaging and Sounding of the Environment*, OSA Technical Digest (CD) (Optical Society of America, 2011), paper HWB3.

Invited Conference Presentations (in reverse chronological order):

Coddington, O., P. Pilewskie, E. Richard, and G. Kopp (2016), Measurements of Solar Irradiance – How the future TSIS-1 mission will extend current understanding of solar irradiance variability, *6th International HEPPA-SOLARIS Workshop*, Helsinki, Finland, 13-17 June 2016.

Coddington, O., P. Pilewskie, K. S. Schmidt (2016), Quantifying the information gain in cloud optical properties from passive shortwave measurements by adding spectral channels or increasing measurement accuracy, Atmospheric Radiation Science Workshop, Boulder, CO, 8-11 March 2016. (*invited*)

Coddington, O., J. Lean, P. Pilewskie, M. Snow, and D. Lindholm (2015), A new climate data record of solar spectral irradiance from 1610 to present, *AGU Fall Meeting*, San Francisco, CA, Dec 14-18, 2015.

Coddington, O., J. Lean, P. Pilewskie, M. Snow, D. Lindholm, and G. Kopp (2015), A new record of total solar irradiance from 1610 to present, *Sun-Climate Symposium*, Savannah, GA, Nov. 10-13, 2015.

Coddington, O., J. Lean, P. Pilewskie, M. Snow, and D. Lindholm (2014), Naval Research Laboratory Solar Spectral Irradiance (NRLSSI), Version 2: An Update, *SOLARIS-HEPPA Working Group Meeting*, Boulder, CO, Nov. 4-6, 2015.

Coddington, O., P. Pilewskie, and T. Vukicevic, Quantifying the Information Content of Hyperspectral Cloud Data, Hyperspectral Imaging and Sensing of the Environment (HISensE): Toronto, Canada, July 10-14, 2011.

Conference Presentations (in reverse chronological order):

Wright, L., **O. Coddington**, and P. Pilewskie (2016), Informed Source Separation of Atmospheric and Surface Contributions in Hyperspectral Imagery using Non-Negative Matrix Factorization, *Hyperspectral Imaging and Sounding of the Environment* (HISE), Leipzig, Germany, 14-17 Nov, 2016. (*student presenter*).

Wright, L., **O. Coddington**, and P. Pilewskie (2016), Separation of Atmospheric and Surface Contributions in HICO Hyperspectral Imagery using Informed Non-Negative Matrix Factorization, *AGU Fall Meeting*, San Francisco, CA, Dec 12-16, 2016. (*oral*; *student presenter*).

Coddington, O., J. Lean, P. Pilewskie, E. Richard, G. Kopp, and C. Lindholm (2016), The New Climate Data Record of Solar Irradiance and Comparisons with Observations and Solar Irradiance Models over a Range of Solar Activity Time Scales, *AGU Fall Meeting*, San Francisco, CA, Dec 12-16, 2016.

P. Pilewskie, G. Kopp, E. Richard, **O. Coddington**, T. Woods, and D. Wu (2016), Continuing the Solar Irradiance Data Record with TSIS, *AGU Fall Meeting*, San Francisco, CA, Dec 12-16, 2016.

Chen, H., K. S. Schmidt, and **O. Coddington** (2016), Using Aircraft Observations to Improve Passive Remote Sensing of Clouds in the Arctic, *AGU Fall Meeting*, San Francisco, CA, Dec 12-16, 2016. (*student presenter*).

K. S. Schmidt, G. Feingold, P. Pilewskie, J. Redemann, **O. Coddington**, B. Kindel, S. Song, S. LeBlanc, S. Cochrane, and H. Chen (2016), The Radiative Effect of Boundary Layer Clouds: Can Aircraft Measurements Improve Regional Estimates, *AGU Fall Meeting*, San Francisco, CA, Dec 12-16, 2016.

Coddington, O., J. Lean, P. Pilewskie, E. Richard, M. Snow, G. Kopp, and C. Lindholm (2016), The New Climate Data Record of Solar Irradiance: Comparisons with Observations and Models Over a Range of Solar Activity Time Scales, *AGU Fall Meeting*, San Francisco, CA, Dec 12-16, 2016. (*oral*)

Pilewskie, P., G. Kopp, E. Richard, **O. Coddington**, T. Woods, and D. Wu (2016), Continuing the Solar Irradiance Data Record with the Total and Spectral Solar Irradiance Sensor (TSIS), *AGU Fall Meeting*, San Francisco, CA, Dec 12-16, 2016. (*poster*)

Coddington, O., L. Wright, B. Kindel, P. Pilewskie, and G. Kopp, 2016, Deriving inferences directly from high-accuracy, hyperspectral shortwave imagery: Developing innovative, Bayesian approaches and Tools, LASP Proposal Development Committee meeting, 27 July 2016.

Coddington. O., G. Rottman, and P. Pilewskie (2016): Reanalysis of the Solar Mesosphere Explorer Ultraviolet Spectrometer Data, *Solar Irradiance Science Team*, Greenbelt, MD, 12-13 July, 2016.

Schmidt, K. S., **and O. Coddington** (2016), The radiative effect of thin boundary layer clouds in the Arctic, *European Geosciences Union (EGU) General Assembly*, EGU2016-5342, Vienna, AU, 17-22 April 2016. (*poster*)

Coddington, O., J. Lean, G. Rottman, P. Pilewskie, M. Snow, and D. Lindholm (2016), The new climate data record of total and spectral solar irradiance: Current progress and future steps, *European Geosciences Union (EGU) General Assembly*, EGU2016-9026, Vienna, AU, 17-22 April 2016. (*oral*)

Coddington, O., S. Platnick, P. Pilewskie, and S. Schmidt (2016), Cloud retrieval information content studies with the Pre-Aerosol, Cloud and ocean Ecosystem (PACE) Ocean Color Imager (OCI), *European Geosciences Union (EGU) General Assembly*, EGU2016-10205, Vienna, AU, 17-22 April 2016. (*poster*)

Pilewskie, P., E. Richard, **O. Coddington**, and J. Harder (2016), Solar Spectral Irradiance and Climate: Current Understanding and Future Observations from the Total and Spectral Solar Irradiance Sensor, *International Radiation Symposium*, Auckland, New Zealand, 17-21 April 2016.

Coddington, O., S. Platnick, P. Pilewskie, and K. S. Schmidt (2016), Cloud retrieval information content studies, *PACE Annual Science Team Meeting*, Pasadena, CA, Jan 20-22, 2016.

Pilewskie, P., T. Sparn, G. Kopp, **O. Coddington**, and K. Sebastian Schmidt (2016), ECHO: Earth Climate Hyperspectral Observatory: Advances in Cloud and Aerosol Remote Sensing, *96th American Meteorological Society Annual Meeting*, New Orleans, LA, 10-14 January 2016.

Remer, L., B. Franz, E. Boss, and PACE Science Team (2015), Advances in Atmospheric Correction for NASA's PACE mission, *AGU Fall Meeting*, San Francisco, CA, Dec 14-18, 2015. (*oral*)

Coddington, O., J. Lean, P. Pilewskie, M. Snow, and D. Lindholm (2015), Development, Production, and Validation of the NOAA Solar Irradiance Climate Data Record, *AGU Fall Meeting*, San Francisco, CA, Dec 14-18, 2015. (*poster*)

Rand, L., **O. Coddington**, and M. Snow (2015), The Magnetic Heartbeat of the Sun; Diagnosing Pulses in the Solar Mg II Index using Wavelet Analysis, *AGU Fall Meeting*, SH23B-2439, San Francisco, CA, Dec 14-18, 2015. (*poster*; *student presenter*)

Wright, L., **O. Coddington**, and P. Pilewskie (2015), Informed source separation of atmospheric and surface signal contributions in shortwave hyperspectral imagery using Non-Negative Matrix Factorization, *AGU Fall Meeting*, San Francisco, CA, Dec 14-18, 2015. (*poster*; *student presenter*).

Coddington, O., J. Lean, D. Lindholm, P. Pilewskie, and M. Snow, Total Solar Irradiance (TSI) and Solar Spectral Irradiance (SSI) CDR (2015), *NOAA Climate Data Record Program Annual Meeting*, August 4-6, 2015, Asheville, NC. (*poster*)

Coddington, O., P. Pilewskie, B. Kindel, Attribution of Earth-reflected Hyperspectral Data using Bayesian Positive Source Separation, *OSA Hyperspectral Imaging and Sounding of the Environment (HISE)*, March 1-4, 2015, Lake Arrowhead, CA. (*oral*)

Pilewskie, P., G. Kopp, K. S. Schmidt, and **O. Coddington** (2015), The Earth Climate Hyperspectral Observatory: Advances in Cloud and Aerosol Remote Sensing, *European General Assembly 2015*, 12-17 April, 2015, Vienna, Austria.

Coddington, O., J. Lean, P. Pilewskie, M. Snow, and D. Lindholm, The Solar Irradiance Climate Data Record, *20th Conference on Satellite Meteorology and Oceanography, American Meteorological Society Annual Meeting*, Jan 4-8, 2015, Phoenix, AZ. (*poster*)

Swenson, S. J., **O. Coddington**, and M. Snow, 2015, Exploring Solar Signals: A Bayesian Approach to Developing a Composite Mg II Index Record, *12th Conference on Space Weather, American Meteorological Society Annual Meeting*, Jan 4-8, 2015, Phoenix, AZ. (*poster; student presenter;* ***winner of the top student poster presentation***)

Coddington, O., P. Pilewskie, and K. S. Schmidt, Quantitative evaluation of retrievals of cloud properties from spectral transmittance and reflectance, *14th Conference on Atmospheric Radiation*, Boston, MA, 7-11 July, 2014. (*oral*)

LeBlanc, S., P. Pilewskie, K. S. Schmidt, **O. Coddington**, J. Redemann, P. Russell, and C. Flynn (2014), Cloud remote sensing using spectral features in transmitted shortwave radiation, *14th Conference on Atmospheric Radiation*, Boston, MA, 7-11 July, 2014.

Pilewskie, P., K. S. Schmidt, and **O. Coddington** (2014), Information Content in Remote Sensing: A perspective on Twomey's influence on present and future observations, *14th Conference on Atmospheric Radiation*, Boston, MA, 7-11 July, 2014.

Schmidt, K. S., P. Pilewskie, G. Feingold, **O. Coddington**, and S. Song (2014), Relating shortwave passive remote sensing and radiative effects of aerosol-immersed broken cloud fields, *14th Conference on Atmospheric Radiation*, Boston, MA, 7-11 July, 2014.

Schmidt, K. S., S. Song, P. Pilewskie, and **O. Coddington** (2014), New Observational and Modeling Approaches for Understanding Radiative Effects in Polluted Boundary Layer Clouds, *EGU General Assembly*, Vienna, Austria, 2 May, 2014.

Song, S., K. S. Schmidt, P. Pilewskie, and **O. Coddington** (2014), Exploring new methods to exploit the relationship between cloud spatial structure and their spectral radiative signature in remote sensing and energy budget applications, *EGU General Assembly*, Vienna, Austria, 2 May, 2014.

Coddington, O., P. Pilewskie, E. Richard, and A. Kren (2014), Applying Information-Theoretic Approaches for Objective Model Selection and Quantification of a Model Selection Uncertainty, *2014 SORCE Science Team Meeting*, Cocoa Beach, FL., Feb. 28-31, 2014. (*poster*)

Schmidt, S., **O. Coddington**, and P. Pilewskie (2013), Retrieving cloud properties over bright surfaces from shortwave spectral observations, Davos Atmosphere and Cryosphere Assembly 2013, Davos, Switzerland, July 8-12, 2013.

LeBlanc, S., S. Song, **O. Coddington**, P. McBride, C. Flynn, K. S. Schmidt, and P. Pilewksie (2012), Ground based spectral radiance and irradiance measurements of aerosols and clouds during the DC3 field campaign, *AGU Fall Meeting*, 2012.

Coddington, O., E. Richard, S. Beland, and P. Pilewskie (2012), A new look at solar exposure and SORCE degradation, presented at *SSI Trends Workshop*, Annapolis, MD, Sept.17, 2012. (*oral*)

Bearden, L., **O. Coddington**, M. Snow, and E. Richard. Trends in the Short-Term SSI Variability during the Declining Phase of SC23: Spectral Decomposition over 100 Carrington rotations from the UV through the near IR (2012), presented at *2012 SORCE Science Team Meeting*, Annapolis, MD, Sept. 18-19, 2012. (*poster; student presenter*)

Schmidt, K. S., P. Pilewskie, **O. Coddington** and B. Kindel (2012), Aircraft and ground-based measurements of spectral solar radiation, presented at *2012 SORCE Science Team Meeting*, Annapolis, MD, Sept. 18-19, 2012.

Pilewskie, P., S. Schmidt, **O. Coddington**, Y. Roberts, and B. Kindel (2012), Monitoring Earth's Climate with Shortwave Hyperspectral Reflectance, *International Radiation Symposium*, Berlin, Germany, August 6-10, 2012.

Schmidt, K. S., P. Pilewskie, G. Feingold (*presenter*), **O. Coddington**, S. Song, and A. McComiskey (2012), Spectral radiative effects and remote sensing of aerosol-immersed cumulus cloud fields, *16th International Conference on Clouds and Precipitation*, Leipzig, Germany, July 30-August 3, 2012.

Schmidt, K. S., **O. Coddington**, P. Pilewskie (*presenter*), and S. Song (2012), Cloud inhomogeneities, aerosol particles, thermodynamic phase, and crystal shape in hyperspectral shortwave measurements and model calculations, *International Radiation Symposium*, Berlin, Germany, August 6-10, 2012.

Pilewskie, P., and **O. Coddington**, TSIS Update, *NOAA Climate Data Record Annual Meeting*, Asheville, NC., Aug 1-3, 2012.

Coddington, O., Pilewskie, P., Vukicevic, T., Livingston, J., Platnick, S., Wind. G., Redemann, J., and Russell, P. B., Airborne radiometer measurements of above cloud reflectance in the presence and absence of aerosols, Hyperspectral Imaging and Sensing of the Environment (HISensE): PHTuC6, Vancouver, Canada, April 27-29, 2009. (*oral)*

Coddington, O., P. Pilewskie, S. Platnick, G. Wind, J. M. Livingston, J. Redemann, and P. B. Russell, Retrieval of cloud optical depth and effective radius from SSFR irradiance measurements made in the presence of overlying aerosol layers during NEAQS-ITCT and comparison to MODIS cloud product (2008), in Eos Trans., no. A41E-0163 in Fall Meet. Suppl. 89(53), *AGU*.

McBride, P., P. Pilewskie, K. S. Schmidt, **O. Coddington**, and S. Kittelman (2008), Cloud and aerosol retrieval methods with scattered surface-based radiance measurements, in Eos Trans., no. A11E-0194 in Fall Meet. Suppl. 89(53), *AGU*.

Livingston, J. M., O. Torres, P. B. Russell, J. Redemann, R. R. Johnson, R. W. Bergstrom, B. Veheilmann, A. Smirnov, B. N. Holben, L. Remer, K. S. Schmidt, **O. Coddington**, and P. Pilewskie (2007), Comparison of airborne sunphotometer and satellite retrievals of aerosol optical depth during MILAGRO/INTEX-B, in Eos Trans., no. A12A-01 in Fall Meet. Suppl. 88(52), *AGU*.

McBride, P., P. Pilewskie, K. S. Schmidt, and **O. Coddington** (2007), New insights into the column radiative budget using ground based hyperspectral zenith radiance measurements, in Eos Trans., no. A41A-0021 in Fall Meet. Suppl. 88(52), *AGU*.

Pilewskie, P., K. S. Schmidt, **O. Coddington**, R. Bergstrom, and J. Redemann (2007), Advances in quantifying the radiative effects of aerosol particles on climate from airborne field studies, in Eos Trans., no. A34A-01 in Fall Meet. Suppl. 88(52), *AGU*.

Coddington, O., K. S. Schmidt, P. Pilewskie, W. J. Gore, R. W. Bergstrom, M. Roman, J. Redemann, P. B. Russell, J. Liu and C. Schaff, Measurements of area resolved surface spectral albedo and validation of MODIS land albedo product during MILAGRO, GoMACCS, and TC4, in Eos Trans., no. A43C-1415 in Fall Meet. Suppl. 88(52), AGU, 2007. (*poster*)

Livingston, J. M., O. Torres, P. B. Russell, J. Redemann, R. R. Johnson, R. W. Bergstrom, B. Veheilmann, A. Smirnov, B. N. Holben, L. Remer, K. S. Schmidt, **O. Coddington**, and P. Pilewskie (2007), Comparison of airborne sunphotometer and satellite retrievals of aerosol optical depth during MILAGRO/INTEX-B, in Eos Trans., no. A12A-01 in Fall Meet. Suppl. 88(52), *AGU*.

Coddington, O., K. S. Schmidt, and P. Pilewskie (2007), Measurement and error analysis of spectral surface albedo during MILAGRO, *ARM Science Team Meeting*, Monterey, CA. (*poster*)

Pilewskie, P., P. McBride, W. Gore, J. Pommier, and **O. Coddington** (2007), The SWS at SGP, *ARM Science Team Meeting*, Monterey, CA.

Hofmann, O., P. Pilewskie, B. Kindel, W. Gore, P. Russell, J. Livingston, J. Redemann, R. Bergstrom, S. Platnick, J. Daniel, and T. Garrett (2006), Cloud properties derived from visible and near-infrared reflectance in the presence of aerosols, *ARM Science Team Meeting*, Albuquerque, New Mexico. (*poster*)

Pilewskie, P., **O. Hofmann**, B. Kindel, W. Gore, P. Russell, J. Livingston, J. Redemann, R. Bergstrom, S. Platnick, J. Daniel, and T. Garrett (2005), Cloud properties derived from visible and near-infrared reflectance in the presence of aerosols, in Eos Trans., no. A14B-07 in Fall Meet. Suppl. 86(52), *AGU*.