

Time	Presenter	Session #	Type	Title	Location	Co-Authors
Monday 12/10						
08:00 - 12:20	Lamb, Kara	A11M	Poster	Do Surface Kinetics Play a Role in Depositional Ice Growth in Cirrus Clouds?	Hall A-C	
09:21 - 09:33	Rollins, Andrew W	GC11C-07	Talk	Aircraft observations of volcanic plumes in the troposphere and stratosphere	150A	
Tuesday 12/11						
16:45 - 17:00	Banerjee, Antara	A24C-04	Talk	Stratospheric water vapor: an important climate feedback	146B	Chiodo, Gabriel, Previdi, Michael J., Ponater, Michael, Polvani, Lorenzo
17:46 - 18:00	Yu, Pengfei	A24E-08	Talk	PyroCb Smoke Rises and Persists in the Global Stratosphere: Constraints on injected smoke mass, black carbon abundance, and ozone reaction rates with organic coatings	144A-C	Toon, Owen B., Bardeen, Charles, Zhu, Yunqian, Portmann, Robert W., Thornberry, Troy D., Davis, Sean M. Wolf, Eric T., Rosenlof, Karen H., Peterson, David A., Fromm, Michael D., and Robock, Alan
Wednesday 12/12						
08:00 - 10:00	Rosenlof, Karen H.	A31A	Session	Atmospheric Trace Species in the Stratosphere: Distribution, Trends, Variability, and Processes Related to Stratospheric Ozone and Climate I	151B	<i>Primary Convener and Chair</i>
08:00 - 08:20	Fahey, David W.	A31A-01	Talk	The 2018 UNEP/WMO Assessment of Ozone Depletion: An Update (Highlighted)	151B	
08:00 - 10:00	Frost, Gregory	A31B	Session	Improving the Science of Emissions Through Inventories, Observations, and Models I	151A	<i>Primary Convener and Chair</i>
08:00 - 12:20	Gaudel, Audrey	A31I-2966	Poster	Tropospheric Column Ozone Variability From Space: Expanded Results from the First Multi-Instrument Intercomparison	Hall A-C	Cooper, Owen R., Thouret, Valerie, Barret, Brice, Boynard, Anne, Burrows, John P., Clerbaux, Cathy, Huang, Guanyu, Keridge, Brian J., Latter, Barry, Liu, Xiong, Rozanov, Alexej, Siddans, Richard, Wespes, Catherine, and Ziemke, Jerald R
08:00 - 12:20	Kazil, Jan	A31J	Poster Session	Boundary Layer Clouds and Atmosphere, Biosphere, Land, and Ocean Interactions I	Hall A-C	<i>Primary Convener and Chair</i>
08:00 - 12:20	Kazil, Jan	A31J-3009	Poster	The life cycle of a pocket of open cells and its response to biomass burning aerosol	Hall A-C	Feingold, Graham, Yamaguchi, Takanobu, Christensen, Matthew, and Abel, Steven
08:00 - 12:20	Senff, Christoph J.	A31I-2971	Poster	Boundary layer entrainment of transported ozone layers observed with lidar during the CABOTS and FAST-LVOS studies	Hall A-C	Langford, Andrew O., Alvarez, Raul J., Bonin, Timothy, Brewer, Alan, Choukulkar, Aditya, Kirgis, Guillaume, Marchbanks, Richard, Sandberg, Scott, Weickmann, Ann M., and Zucker, Michael
08:00 - 12:20	Thornberry, Troy D.	A31I-2977	Poster	ACCLAIM: an Airborne Science Mission to Study UTLS Aerosol Processes, Properties and Impacts	Hall A-C	Jensen, Eric J. and Rosenlof, Karen H.
08:48 - 09:02	Davis, Sean M.	A31A-04	Talk	On the robustness of recent lower stratospheric ozone trends in specified dynamics model simulations	151B	Davis, Nicholas, Rosenlof, Karen H., Yu, Pengfei and Portmann, Robert W.
09:00 - 09:15	Granier, Claire	A31B-05	Talk	Evolution of surface emissions in China and impact on changes in air quality	151A	Bouarar, Idir, Elguindi, Nellie, Darras, Sabine, Solmon, Fabien, Changqin, Yin, and Brasseur, Guy P.
10:20 - 12:20	Frost, Gregory	A32B	Session	Improving the Science of Emissions Through Inventories, Observations, and Models II	151A	<i>Primary Convener and Chair</i>
10:20 - 12:20	Rosenlof, Karen H.	A32A	Session	Atmospheric Trace Species in the Stratosphere: Distribution, Trends, Variability, and Processes Related to Stratospheric Ozone and Climate II	151B	<i>Primary Convener</i>
10:30	Decker, Zachary		Talk	Trace gas measurements in the troposphere and plans for nighttime wildfire plume aircraft measurements	NOAA Booth	
11:50 - 12:05	Gilman, Jessica	A32E-07	Talk	Volatile organic compounds in New York City: source signature of emissions from volatile chemical products, combustion, and fossil fuels in spring and summer 2018	144A-C	Coggon, Matthew, Gkatzelis, Georgios, Ortega, John V., Peischl, Jeff, Aikin, Kenneth C., McDonald Brian C., and Wameke, Carsten
12:05 - 12:20	Coggon, Matthew M.	A32E-08	Talk	Significant anthropogenic monoterpene emissions from fragrances and other consumer products in New York City.	144A-C	Gilman, Jessica, McDonald, Brian, Gkatzelis, Georgios, Ortega, John V., Peischl, Jeff, Aikin, Kenneth C., and Wameke, Carsten
12:05 - 12:20	McDonald, Brian C.	A32B-08	Talk	Evaluating a Bottom-up Inventory of Volatile Chemical Products and Mobile Source Emissions with Field Measurements in New York City (Highlighted)	151A	Coggon, Matthew, Gilman, Jessica, Wameke, Carsten, Gkatzelis, Georgios, Ortega, John V., Peischl, Jeff, Aikin, Kenneth, C., McKeen, Stuart A., Tong, Daniel, Frost, Gregory J., Ryerson, Thomas B., and Trainer, Michael
13:40 - 18:00	Burkholder, James B.	A33L-3346	Poster	Atmospheric Chemistry of c-C5HF7 and c-C5F8: OH Reaction Rate Coefficients, Degradation Products, Infrared Spectra, and Global Warming Potentials	Hall A-C	Gierczak, Tomasz, Bernard, Francois, and Papanastasiou, Kimitrios K.
13:40 - 18:00	Frost, Gregory	A33K	Poster Session	Improving the Science of Emissions Through Inventories, Observations, and Models III	Hall A-C	<i>Primary Convener</i>
13:40 - 18:00	Schwarz, Joshua P.	A33L-3362	Poster	Extrapolation of thermal radiation signals in the Single Particle Soot Photometer	Hall A-C	
13:40 - 18:00	Veres, Patrick R.	A33L-3363	Poster	Application of Isotopic Labelling Techniques with Chemical Ionization Mass Spectrometry for the Elucidation of Molecular Structural Information	Hall A-C	Neuman, J. A. and Wameke, Carsten

14:10-14:25	Brown, Steven S.	A33A-03	Talk	First in-situ observations of N2O5 and ClNO2 in the upper atmosphere: Results from ATom	151B	Veres, Patrick R., Neuman, J.A., Ryerson, Thomas B., Thompson, Chelsea R., Peischl, Jeff, Bourgeois, Ilann, Williamson, Christina, Kupc, Agnieszka, Brock, Charles A., Hall, Samuel R., and Ullmann, Kirk
14:25 - 14:40	Thompson, Chelsea R.	A33A-04	Talk	Distributions and Chemistry of NOx in the Remote Troposphere and the Validity of the Photo-stationary State Approximation	151B	Ryerson, Thomas B., Murray, Lee T., Sherwen, Tomas, Wang, Siyuan, Peischl, Jeff, Hall, Samuel R., Ullmann, Kirk, Froyd, Karl D., Schill, Gregory P., Bui, Thaopaul V., Chang, Cecilia S., and Bourgeois, Ilann
14:25 - 14:40	de Gouw, Joost	A33C-04	Talk	Summary of Results from the NOAA Shale Oil and Natural Gas Nexus (SONGNEX) Study	151A	Wameke, Carsten, Trainer, Michael, Peischl, Jeff, Ryerson, Thomas B., Thompson, Chelsea R., Zarzana, Kyle J., Brown, Steven S., Koss, Abigail, Yuan, Bin, Gilman, Jessica, Lerner, Brian M., Tokarek, Travis W., Negron, Alan G., Bruin, de Bruin, Joep, McDonald, Brian C., Levelt, Pieternel, Veeckind, Pepijn, and Vlemmix, Tim

Thursday 12/13

08:00 - 12:20	Rosenlof, Karen H.	A411	Poster Session	Improving the Science of Emissions Through Inventories, Observations, and Models III	Hall A-C	<i>Primary Convener and Chair</i>
08:00 - 12:20	Rosenlof, Karen H.	A411-3085	Poster	Lower stratospheric ozone variability	Hall A-C	Davis, Sean M.
08:00 - 12:20	Portmann, Robert W.	A411-3079	Poster	Ozone Depletion Potentials: A new approach	Hall A-C	Yu, Pengfei and Daniel, John S.
08:15 - 08:30	Davis, Nicholas	A41F-02	Talk	Reconciling Hadley Cell Expansion Trend Estimates in Reanalyses	144A-C	Davis, Sean M. and Rosenlof, Karen H.
08:45 - 09:00	Froyd, Karl D.	A41E-04	Talk	Mineral dust abundance and sources in the global free troposphere	151A	Yu, Pengfei, Murphy, Daniel M., Schill, Gregory P., Kupc, Agnieszka, Williamson, Christina, and Brock, Charles A.
08:45 - 09:00	Roberts, James M.	V41A-04	Talk	Cyanogen Halides (X-CN, X = Cl, Br, I) could be significant contributors to reactive halogen chemistry in the troposphere.	Liberty I-K	Neuman, J. A. and Veres, Patrick R.
11:20-11:35	Womack, Caroline	A42A-05	Talk	Wintertime ammonium nitrate aerosol pollution in urban areas: NOx and VOC control as mitigation strategies	151B	McDuffie, Erin E., Edwards, Peter M., de Gouw, Joost, Docherty, Kenneth, Dube, William P., Fibiger, Dorothy L., Francin, Alessandro, Gilman, Jessica, Goldberger, Lexie, Johnson, James E., Lee, Ben H., Long, Russell, Middlebrook, Ann M., Millet, Dylan B., Moravek, Alexander, Murphy, Jennifer G., Riedel, Theran, Roberts, James M., Thornton, Joel A., Valin, Luke, Veres, Patrick R., Whitehill, Andrew, Wild, Robert J., Wameke, Carsten, Yuan, Bin, Baasandorj, Munkhbayar, and Brown, Steven S.
13:40 - 18:00	Decker, Zachary	A43M-3287	Poster	Nighttime aircraft intercepts of biomass burning plumes: observations and box model analysis	Hall A-C	Zarzana, Kyle J., Min, Kyung-Eun, Pollack, Ilana B., Ryerson, Thomas B., Edwards, Pete, Markovic, Mios Z., Dube, William P., Roberts, James M., Veres, Patrick R., Hatch, Lindsay E., Barsanti, Kelley C., and Brown, Steven S.
13:40 - 15:40	Kazil, Jan	A43A	Session	Boundary Layer Clouds and Atmosphere, Biosphere, Land, and Ocean Interactions II	152B	<i>Primary Convener and Chair</i>
13:40 - 13:55	Feingold, Graham	A43A-01	Talk	The evolution of cloud field properties in shallow continental convective clouds	152B	Glenn, Ian B., Yamaguchi, Takano, and Kazil, Jan
13:40 - 18:00	Neuman, J. Andrew	V43E-0155	Poster	Global reactive halogen measurements over the remote oceans	Hall A-C	Veres, Patrick R., Thompson, Chelsea R., Bourgeois, Ilann, Peischl, Jeff, and Ryerson, Thomas B.
13:40 - 18:00	Wagner, Nicholas L.	A43K-3200	Poster	Examining light-absorbing aerosol layers encountered during the ATOM4 mission	Hall A-C	Brock, Charles A., Froyd, Karl D., Katich, Joseph M., Kupc, Agnieszka, Murphy, Daniel M., Schill, Gregory P., Schwarz, Joshua P., and Williamson, Christina
14:55 - 15:10	Gao, Ru-Shan	A43J-06	Talk	The Nighttime Fire Observations eXperiment (NightFOX) - UAS wildfire measurements for air quality, fire weather forecasting, and satellite validations	152A	Thomberry, Troy D., Rosenlof, Karen H., Argrow, Brian M., Dixon, Cory, Elston, Jack S., Mandel, Jan and Kochanski, Adam
14:55 - 15:10	Katich, Joseph	A43G-06	Talk	Seasonal Variation of Refractory Black Carbon Loadings over the Remote Atlantic Observed During the Atmospheric Tomography (ATom) Mission	151A	Schwarz, Joshua P.
16:00 - 16:15	Bela, Megan	GC44C-01	Talk	Emissions, Transport, and Chemistry of Smoke from the October 2017 Northern California Fires	Salon C	McKeen, Stuart A., Volkamer, Rainer M., Kille, Natalie, Ahmadov, Ravan, Pierce R. Bradley, Schmidt, Christopher C., Freitas, Saulo R., Pereira, Gabriel, Trainer, Michael, Angevine, Wayne M., Frost, Gregory J., Wiedinmyer, Christine, O'Neill, Susan, Zhan, Xiaoyang, Kondragunat, Shobha, Soja, Amder J., and Choi, Hyun-Deok
17:15 - 17:30	Frost, Gregory	IN44B-06	Talk	Characterizing Tropospheric Trace Gas Retrievals from the Cross-track Infrared Sounder	206	McKeen, Stuart A., Smith, Nadia, Bamet, Christopher D., Ahmadov, Ravan, Pierce, R. Bradley, Ryerson, Thomas B., Holloway, John S., Peischl, Jeff, Pollack, Ilana B., McKain, Kathryn, Sweeney, Colm, Daube, Bruce C., Commane, Roisin, Wofsy, Steven C., Thompson, Chelsea R., and Bourgeois, Ilann

Friday 12/14

08:00 - 12:20	Brock, Charles A.	A51L-2328	Poster	Measurements of Cloud-Active Aerosol Particles in the Marine Boundary Layer from 80 °N to 85 °S during the Atmospheric Tomography (ATom) Mission	Hall A-C	Kupc, Agnieszka, Williamson, Christina, Froyd, Karl D., Murphy, Daniel M., Jimenez, Jose L., Campuzano-Jost, Pedro, Nault, Benjamin, Weinzierl, Bernadett, Dollner, Maximilian, Erdesz, Frank, Richardson, Mathews, Wagner, Nicholas L., and Bui, Thaopaul V.
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08:00 - 12:20	Ray, Eric A.	A51S-2531	Poster	Interannual Stratospheric Transport Variability Impacts on Surface Trace Gas Concentrations	Hall A-C	Portmann, Robert W., Yu, Pengfei, Daniel, John S., Montzka, Stephen A., and Dutton, Geoffrey S.
08:00 - 12:20	Williamson, Christina	A51Q-2478	Poster	Sources, Sinks and Processing of Newly Formed Particles in the Remote Free Troposphere: Comparing In Situ-Measurements from the Nasa Atmospheric Tomography Mission with Chemistry Climate Models	Hall A-C	Kupc, Agnieszka, Kodros, Jack, Hodshire, Anna Lily, Pierce, Jeffrey R., Yu, Pengfei, Yu, Fangqun, Luo, Gan, Ray, Eric A., Weinzierl, Bernadett, Dollner, Maximilian, Bui, Thaopaul V., Froyd, Karl D., Erdesz, Frank, Richardson, Mathews, and Brock, Charles A.
10:35 - 10:50	Schill, Gregory P.	A52C-02	Talk	The Ubiquity of Biomass Burning Particles in the Remote Troposphere	151A	Froyd, Karl D., Murphy, Daniel M., Kupc, Agnieszka, Williamson, Christina, Brock, Charles A., Bian, Huisheng, Chin, Mian, and Colarco, Peter R.
14:25 - 14:40	Kupc, Agnieszka	A53A-04	Talk	New particle formation and growth to CCN sizes over the remote tropical Pacific and Atlantic Oceans. ATom observations and modeling studies	151A	Williamson, Christina, Hodshire, Anna Lily, Pierce, Jeffrey R., Ray, Eric A., Kazil, Jan, Froyd, Karl D., Richardson, Mathews, Dollner, Maximilian, Weinzierl, Bernadett, Erdesz, Frank, Bui, Thaopaul V., and Brock, Charles A.