**Joint Science Meeting for TEMPO, GeoXO ACX, & TOLNet**

*May 1-5, 2023*

*Location: Shelby Center, University of Alabama in Huntsville*

*Virtual Platform Option: Zoom*

May 2023: [pdf](https://drive.google.com/file/d/1NkAKSvCaZNHN7DCjw2DJ5WtUMVaPICr8/view?usp=sharing)

* Agenda:

**Day 1 Session I - Welcome & Green Paper Experiments: Lightning Talks**

* Welcome & Overview of Special Operations - Aaron Naeger NASA UAH - [pdf](https://drive.google.com/file/d/1c2P_m0SjUDT-fPdeQ3G8JKwzlFcR3XsO/view?usp=sharing)
* TEMPO Health Applications - Susan Alexander - [pdf](https://drive.google.com/file/d/14ovYXpIQ1MRIE3qaOmtZKRjziufdqqmW/view?usp=sharing)
* 2023 Coastal Texas Air Quality Observations - Doug Boyer - [pdf](https://drive.google.com/file/d/1RgKURwfUHRS9zpYeO68GfYenkSpx0GPx/view?usp=sharing)
* AQUARIUS: Air Quality Research in the Western U.S. - Steve Brown
* Nightlights Spectroscopy - Jim Carr - [pdf](https://drive.google.com/file/d/1X2x28MwEZLb5xgWhnRehIEHEURdKY1P8/view?usp=sharing)
* Using TEMPO observations to diagnose nonlinear ozone-NOx - VOC Chemistry - Xiaomeng Jin - [pdf](https://drive.google.com/file/d/16E3Z0324pB83bHDOegmvP6ilST_jZ0gf/view?usp=sharing)
* Central American Volcanic Plumes - Ralph Kahn - [pdf](https://drive.google.com/file/d/1OyoDXrGKT7Bj2EhIaYpkt96I5t5M6I62/view?usp=sharing)
* Supporting local government public health and air quality decision-making with a sub-city scale air quality forecasting system from data fusion of models, satellite, in-situ measurements, and low-cost sensors - Emma Knowland - [pdf](https://drive.google.com/file/d/18g0X9ibBi7r-mjAKQIbMQKiDIGYlvk1x/view?usp=sharing)
* SWAPIT: Study of Winter Air Pollution In Toronto - Chris McLinden - [pdf](https://drive.google.com/file/d/13xHms0YWQUKXn6N4amOD6TL43GbFMbqB/view?usp=sharing)
* TEMPO PBL Ozone Accuracy and Precision Assessment with Aircraft, LIDAR, Balloon, and Drone Measurements - Mike Newchurch - [pdf](https://drive.google.com/file/d/1NVKDcrPpwZM1AEKSCEh6AV2Cjtamftm0/view?usp=sharing)
* TEMPO High-Resolution Lagrangian Lightning NOx (LNOx) Experiment - Ken Pickering - [pdf](https://drive.google.com/file/d/1V6x7dKFu5Tc7H1BaANArJA0TqJPPl2Pd/view?usp=sharing)
* Investigating the Relationships between Air Pollutants and Meteorological Parameters using TEMPO Hourly Data over Highly Polluted Cities in North America - Masudur Rahman - [pdf](https://drive.google.com/file/d/1V0lrsqesizWPoYsEwfTMW0xL6ByhVEY4/view?usp=sharing)
* TEMPO Validation during May-June 2024 Satellite Coastal and Oceanic Atmospheric Pollution Experiment 2 (SCOAPE-II) Gulf of Mexico Cruise - Ryan Stauffer - [pdf](https://drive.google.com/file/d/1Qhuec_Pstr5n50CggXLgraG5j1yXqyPe/view?usp=sharing)
* Water Vapor Studies: Atmospheric Rivers (ARs) - Huiqun (Helen) Wang - [pdf](https://drive.google.com/file/d/1k0U6ticXzlrCPmPcKVUd1PjbIJQSkVQT/view?usp=sharing)
* Surface Ozone Pollution in the Northern Colorado Front Range - Dan Welsh - [pdf](https://drive.google.com/file/d/1X7SS7GaTG71yqOCjYvgJJAUZ7Y4ULxpv/view?usp=sharing)
* Green Paper Experiments: The Utah Summer Ozone Study (USOS) - Carrie Womack
* TEMPO Green Paper Experiments Panel - [pdf](https://drive.google.com/file/d/1OOLGej-Jnht66jNR7_53ZNSD5kcJNUtJ/view?usp=sharing)

**Day 1 Session II - GeoXO ACX Introduction & Status**

* Welcome and the GeoXO Program - Andrew Heidinger - [pdf](https://drive.google.com/file/d/1AnedsqMoDJ_HqayH3pCSPPUDHNFPZF8s/view?usp=sharing)
* GeoXO Atmospheric Composition (ACX) Instrument Studies - Joanna Joiner - [pdf](https://drive.google.com/file/d/1MBZ95g864KUglx5QBFVOBgLyd_1WSWA3/view?usp=sharing)
* GeoXO Algorithm and Product Development Plans - Shobha Kondragunta - [pdf](https://drive.google.com/file/d/1l11o4DO4wjtmVNW8qLK-gPeOvWmCed9t/view?usp=sharing)
* Atmospheric Composition Applications of ACX using TEMPO as a Proxy - Gregory Frost - [pdf](https://drive.google.com/file/d/1LOM1GMvQCnayK6skgKil7NabM0kUrZyg/view?usp=sharing)
* Introduction to GeoXO ACX Science Team - Gregory Frost - [pdf](https://drive.google.com/file/d/1GgBLcLmBWUYbKF8F0zA7rTr0gQt0fdWR/view?usp=sharing)

**Day 1 Session III - GeoXO Value Studies**

* NOAA Value Assessment Studies Background - Monika Kopacz - [pdf](https://drive.google.com/file/d/1hy2WIEfLwdimeHqdOV1nOyy6fspF5Pt1/view?usp=sharing)
* Aerosol Product Study - Shobha Kondragunta - [pdf](https://drive.google.com/file/d/1XcMNOuBNreCwGSefoQsEDtu-mbEUbjCN/view?usp=sharing)
* Trace Gas Emission Updates Study - Brian McDonald - [pdf](https://drive.google.com/file/d/1mV1NmoqCziIzQbTrpiTzgFuTGVRQ7JiV/view?usp=sharing)
* Health Impact Study - Susan Anenberg - [pdf](https://drive.google.com/file/d/1XDvuxqbLkaw__zBLra1x75U_iL9bWAq9/view?usp=sharing)

**Day 2 Session I - GEO Air Quality Constellation Updates**

* UAH Welcome
* Greeting & Congratulatory Remarks - Barry Lefer & Director General Myung Soo Yoo
* Introduction & TEMPO Program Status - Xiong Liu - [pdf](https://drive.google.com/file/d/1wo-uvesCqV_uSors-IrsMlzCGxJXtzYP/view?usp=sharing)
* TEMPO Commissiong Update - Kevin Daugherty - [pdf](https://drive.google.com/file/d/1-77wDmESiBAupTm5BcOHyJlgA25sSbJz/view?usp=sharing)
* TEMPO Inflight Operations - Raid Suleiman - [pdf](https://drive.google.com/file/d/1z7IQTbCTtpsUyvDJzdJY08wbGcoZTaxc/view?usp=sharing)
* TEMPO Product Updates - Xiong Liu - [pdf](https://drive.google.com/file/d/1fGtBKQ8aKFnlcFgqqA26yU1wfq0hzCwA/view?usp=sharing)
* TEMPO Data Distribution - Hazem Mahmoud - [pdf](https://drive.google.com/file/d/11PU0i3HBLtpRztlez3tyixlVQwn2hQc2/view?usp=sharing)
* GEMS Mission & Product Updates - Jhoon Kim - [pdf](https://drive.google.com/file/d/12jxnjmNS1gFbxBnPA8YTr6Z9v4GTCMBs/view?usp=sharing)
* Sentinel-4 Operational Products - Diego Loyola
* Satellite Needs Working Group - Pontus Olofsson - [pdf](https://drive.google.com/file/d/1yMCeJAn0Q32tZ8XO7vq-rDMvzBl-uBV5/view?usp=sharing)

**Day 2 Session II - TEMPO Green Paper Experiments -** [**pdf**](https://drive.google.com/file/d/107VorVa8gZSi6dmV32zuRi0SI9p3p7Lv/view?usp=sharing)

* TEMPO High-resolution tracking of NO2 /CH2O emissions during high O3 episodes over NYC - Michael Geiger - [pdf](https://drive.google.com/file/d/1X0I_TKXr2uJLA-n98s6zzC-9KTEtZZMa/view?usp=sharing)
* Central American Volcanic Plumes: TEMPO High-Temporal-Resolution Aerosol & Gas Observations - Ralph Kahn - [pdf](https://drive.google.com/file/d/1De-hEK7rKjOUqNazK59kMwjbES42uxKg/view?usp=sharing)
* Study of Winter Air Pollution In Toronto - Chris McLinden - [pdf](https://drive.google.com/file/d/13xHms0YWQUKXn6N4amOD6TL43GbFMbqB/view?usp=sharing)
* Evaluating TEMPO observations for air pollution-related environmental justice decision-making - Sally Pusede - [pdf](https://drive.google.com/file/d/1le2HPXMsWykrOHic42ymbRWDXQzYxwfq/view?usp=sharing)
* Air Quality Impacts at NPS units from Oil and Gas Activities Across Multiple Basins in the Western U.S.- Barkley Sive - [pdf](https://drive.google.com/file/d/1C2RVqPtqphjPBFVe3bNQAq1cF2EpzvKv/view?usp=sharing)
* Benefits of Coastal and Over-Water TEMPO Products - Ryan Stauffer - [pdf](https://drive.google.com/file/d/1VBKZZ1JMksigW1CFHiSMl9j1OifZQVdo/view?usp=sharing)
* Surface Ozone Pollution in the Northern Colorado Front Range - Dan Welsh - [pdf](https://drive.google.com/file/d/1xlKJPx7_wORHrMeoE-v0P0ig-52LiT04/view?usp=sharing)

**Day 2 Session III - GeoXO Joint Panel**

* Paving the Future of Geostationary Research-to-Operations - [pdf](https://drive.google.com/file/d/1WVnaO2h1t0Z_FDR4_Tw4p0MnlZcjzqEq/view?usp=sharing)
* Air Quality Observations GEMS - Jhoon Kim - [pdf](https://drive.google.com/file/d/1C4LC7pHabZK2Z34pWl4icP5Bofpl77zw/view?usp=sharing)
* New science to be addressed & Early adopters to Pathfinders - Naeger - [pdf](https://drive.google.com/file/d/1zHrFtleoy2_FmunWat_2YGULef8baKZX/view?usp=sharing)

**Day 2 Session IV - Posters -** [**pdf**](https://drive.google.com/file/d/1IyEAz-2smIAgpFmDjZVlhNnf1KPyRcln/view?usp=sharing)

* Find Full poster list at the bottom

**Day 3 Session I - Air Quality Modeling**

* Preparing Air Quality Modeling Systems for TEMPO Data Panel - [pdf](https://drive.google.com/file/d/1D929jIWjj2GTOJZ5AGySHUsGddYsXnSu/view?usp=sharing)

**Day 3 Session II - TEMPO Validation - Panel**

* TEMPO Validation (Baseline/L2 Products) - [pdf](https://drive.google.com/file/d/1RJZIz4rfvc-vhbxrEuELtzuSJgPm-S_h/view?usp=sharing)
* Large Scale Multi-Agency /Platform Sub-Orbital Activities - [pdf](https://drive.google.com/file/d/19up1vy-LZEWKOF5y95Enrw4IfEPg48zZ/view?usp=sharing)
* TROPOSPHERIC EMISSIONS:MONITORING OF POLLUTION (TEMPO) PROJECT Level 2 Science Data Product Validation Plan - [pdf](https://drive.google.com/file/d/136lkZjnoRJc9_1l7rzgB8Ud6xL44MxfL/view?usp=sharing)
* Ozone Profile Proxy Data - [pdf](https://drive.google.com/file/d/1HZVcANu4qKnKj6scfgv4Vkx14X6W7x07/view?usp=sharing)

**Day 3 Session III - Steep Gradients Panel**

* Science with steep horizontal gradients - [pdf](https://drive.google.com/file/d/1ELYsE2PDEPzX2mycaaQ5JR6kEXLK4ifq/view?usp=sharing)

**Day 3 Session IV - Emissions**

* Volcanic eruption plume from La Soufriere Volcano, St. Vincent - Ralph Kahn - [pdf](https://drive.google.com/file/d/1nZ81Pd-HOqBUGOJEaDJsPHBs2gmqJHN-/view?usp=sharing)
* Regional ABI and VIIRS based fire Emissions (RAVE) - Fangjun Li - [pdf](https://drive.google.com/file/d/1oTuS80iIfdLH2kpppt4P-3A32h3jh2TP/view?usp=sharing)
* Assessing Diurnal/Diel Emissions with TEMPO - Barron Henderson - [pdf](https://drive.google.com/file/d/1MG33MA_-58KR7C1nsRC2fciy2zH_F6X2/view?usp=sharing)
* Direct estimates of biomass burning NOx emissions from satellite observations - Xiaomeng Jin - [pdf](https://drive.google.com/file/d/1XRYWQB91XFjN_xdZ0bdC5HaexWGG-9I3/view?usp=sharing)
* Benefit of Assimilating TEMPO versus TROPOMI NO2 - Brian McDonald - [pdf](https://drive.google.com/file/d/1BsKnb3JIcBWsD8f1beTc1h8n2RqQpe06/view?usp=sharing)
* Assessing Diurnal Emissions with TEMPO - Ken Pickering - [pdf](https://drive.google.com/file/d/1quvWSUA4q2SOhE9vxIZtUCjBpHpIsB98/view?usp=sharing)
* NOx Rapid Emission Refresh - Daniel Tong - [pdf](https://drive.google.com/file/d/1QDhr6uAG6UgCrlvnxgn468-1opYGb3jU/view?usp=sharing)

**Day 3 Session V(a) - Aerosols -** [**pdf**](https://drive.google.com/file/d/1ijb7BY-ez-AV4BLAYq4whiSUao4-80gJ/view?usp=sharing)

* NOAA TEMPO Aerosol Detection Algorithm - Pubu Ciren - [pdf](https://drive.google.com/file/d/12UWqc4tsDHpL8LUjynTzPrImG0cQ0i9W/view?usp=sharing)
* AERONET Aerosol Robotic Network: 30 Years of Observations and Research - Pawan Gupta - [pdf](https://drive.google.com/file/d/1h6guSbjA8f-Nd_YJLNtTrnakMe5CIutj/view?usp=sharing)
* Lessons learned from GEMS w.r.t aerosol retrievals - Jhoon Kim - [pdf](https://drive.google.com/file/d/1RVV0DVYihNw4ZT8_8TNXFWzVjF_2JHr0/view?usp=sharing)
* Applying New Generation NASA UV-VIS Aerosol Algorithm to TEMPO - Omar Torres - [pdf](https://drive.google.com/file/d/1ljq9Ne_2hIL-By1OrAuSuXTJZhJdg7AZ/view?usp=sharing)
* Demonstration of AOCH for air quality studies - Jun Wang - [pdf](https://drive.google.com/file/d/1f4icLpztHm68rgQCLrz3x_YhKPe2f2Ym/view?usp=sharing)

**Day 3 Session V(b) - Land & Ocean Monitoring - Panel**

* Land and Ocean Monitoring with TEMPO - [pdf](https://drive.google.com/file/d/1eIWY4GhohprYIThqVwXrDGsCYV38Fd5g/view?usp=sharing)

**Day 4 Session I - TEMPO / TOLNet Joint Panel**

* TOLNet for Improved TEMPO Validation and Science Results - [**pdf**](https://drive.google.com/file/d/1nEvyGmC3jNaWvCY_1aRyLlS1Yn5Gc3xe/view?usp=sharing)

**Day 4 Session II - Posters -** [**pdf**](https://drive.google.com/file/d/1IyEAz-2smIAgpFmDjZVlhNnf1KPyRcln/view?usp=sharing)

* Find Full poster list at the bottom

**Day 4 Session III - TEMPO Early Adopters / Science Team Joint Panel -** [**pdf**](https://drive.google.com/file/d/1ePSeF2SCQN1lTqWyNhdy26Hq3vGwZOaJ/view?usp=sharing)

* VAAC Montréal - Dov Bensimon - [pdf](https://drive.google.com/file/d/1voTUnusbTF7HhguznwsTGAdFFOCwMA74/view?usp=sharing)
* Sheveluch Volcano Event - Nathan Eckstein - [pdf](https://drive.google.com/file/d/1inXTKup8kIw9m-oPcB4Rp0hf6sgUtepp/view?usp=sharing)
* TEMPO Data for Extreme Events and Disasters - Greg Frost - [pdf](https://drive.google.com/file/d/1mI5kSekkiQL6x_UCtrxwB60lar_SCv4O/view?usp=sharing)
* Societal Impacts of Weather and Air Quality - Ivanka Stajner - [pdf](https://drive.google.com/file/d/1M7foRvChMdTiZQeaoqtIyapImVyzjRhY/view?usp=sharing)
* Can TEMPO Help Save Lives from Dust-Caused Roadway Crashes? - Daniel Tong - [pdf](https://drive.google.com/file/d/1QNAjLFvaKYVA8QyEfrHJpLHWFt7Q805N/view?usp=sharing)
* Use of TEMPO data for Extreme Events and Disasters in the Western U.S.- Mary Uhl - [pdf](https://drive.google.com/file/d/1LNS8ziYObeW6nuqDW-qWMYiECBiiO8kD/view?usp=sharing)
* NASA’s Engagement Efforts with the Volcanic Ash Advisory Centers - Jean-Paul Vernier - [pdf](https://drive.google.com/file/d/12Uuz8XB2cs5HQ5E-bIFuQjb6OuG0NiIT/view?usp=sharing)
* TEMPO & NWS Operations - Kris White - [pdf](https://drive.google.com/file/d/1aXrjSD-mlHtxReYljvZrW01V3ncaOR2q/view?usp=sharing)

**Day 4 Session IV - TEMPO Early Adopters / Science Team Joint Panel**

* Advancements in Environmental Health Applications - Alan Just - [pdf](https://drive.google.com/file/d/1-Rc7Ctm0-w9MnlHmRuHOyuhxbuabT8PB/view?usp=sharing)
* Public Health Applications for TEMPO - Susan Alexander - [pdf](https://drive.google.com/file/d/1xSD0klwhUhDmZZkbK2tAC0mqi4xSo9jk/view?usp=sharing)
* How will TEMPO data improve current research? - Susan Anenberg - [pdf](https://drive.google.com/file/d/1dsY_pYyd__qFboYV6AjYI-8T3D8n6kFN/view?usp=sharing)
* Advancements in Environmental Health Applications with TEMPO - Jesse Bell - [pdf](https://drive.google.com/file/d/1HIqL5kYzWGwKUfC2KIXTCZCM8mp5D6Bs/view?usp=sharing)
* Use of Next-Generation Space-based Spatiotemporal Resolution for Intraurban Air Pollution Inequality Analyses -Mary Angelique Demetillo - [pdf](https://drive.google.com/file/d/1slzakFWy3mU5iHg1rh8qzI_f_Neq802R/view?usp=sharing)
* How will TEMPO data improve our current research? Understanding NOx emissions for environmental health applications - Dan Goldberg - [pdf](https://drive.google.com/file/d/1-JKEj4_oyPKVBt7fjlpOFXXfPhB_QPNe/view?usp=sharing)
* Can satellite-based surface PM2.5 estimates inform public policy? - Shobha Kondragunta - [pdf](https://drive.google.com/file/d/1M_D6aGF4eLcLBdoxcZxBsuoccmo9FhFv/view?usp=sharing)

**Day 4 Session V - TEMPO Early Adopters / Science Team Joint Panel**

* TEMPO’s Synergy with TROPICS - Patrick Duranm - [pdf](https://drive.google.com/file/d/1jUyY60slhjrjnspxsr891q0xQc2BTTyI/view?usp=sharing)
* NOAA Pathfinder Initiative Science Working In Society - Vanessa Escobar - [pdf](https://drive.google.com/file/d/1e8vqWSkQGv4wblIVLfqeWaAT8Kfe4mB3/view?usp=sharing)
* National Weather Service Air Quality Services and TEMPO Opportunity - Jordan Gerth
* Plankton, Aerosol, Cloud, ocean Ecosystem (PACE) Observatory - Erin Jephson - [pdf](https://drive.google.com/file/d/1CBSR4SCEAUUUZRHkMjyCfmQYRj8wV6MM/view?usp=sharing)
* MAIA-TEMPO Synergy - Abbey Nastan - [pdf](https://drive.google.com/file/d/1pZKFofs34KT2Aud20aYmdmoqO7owVZDc/view?usp=sharing)
* Relevance of TEMPO to the upcoming SERVIR Central America hub - Betzy Sandoval - [pdf](https://drive.google.com/file/d/14ZdR1TvNfefTCknr_nsQTGyDWkznIhYz/view?usp=sharing)
* GLIMR: A geostationary sensor for a dynamic coastal ocean - Maria Tzortziou

**Day 5 - Parallel TOLNet and TEMPO Early Adopters Workshops**

**Day 5 Session Ia - 10th Annual NASA TOLNet Science Team Workshop**

* Langley Mobile Ozone Lidar Team Accomplishments - Tim Berkoff - [pdf](https://drive.google.com/file/d/1o8y1KCp4aoPCjelw64FdkStaR2-7IxhV/view?usp=sharing)
* GSFC FY23 Accomplishments - John Sullivan - [pdf](https://drive.google.com/file/d/1cwHQ0qMHqy7BcFwUpxz0tJxobLZXGtxV/view?usp=sharing)
* TOLNet CCNY FY23 Accomplishments - Fred Moshary - [pdf](https://drive.google.com/file/d/1PDU-MnPv_rvmEA5BvB8XLaFsurCNjwY1/view?usp=sharing)
* TOLNet ECCC AMOLITE FY23 Accomplishments - Kevin Strawbridge - [pdf](https://drive.google.com/file/d/1B8qSy8v7QMICm3qUhst1g3XeZidpGo1j/view?usp=sharing)
* TOLNet Hampton University FY23 Accomplishments - Ruben Delgado - [pdf](https://drive.google.com/file/d/1ZEAhYn6MSX-eazQgy7QknOIMEoJC681c/view?usp=sharing)
* TOLNet Site Report JPL-Table Mountain Facility (TMF) - Thierry Leblanc - [pdf](https://drive.google.com/file/d/1DfwkbrtGEH0XBxmOYWEtsVMX_nbr35FX/view?usp=sharing)
* Andy Langford - [pdf](https://drive.google.com/file/d/1aj6xvtssbe67oMEZX9MDe0bLKobNP9MY/view?usp=sharing)
* TOLNet NOAA CSL FY23 YTD Accomplishments - Chris Senff - [pdf](https://drive.google.com/file/d/1FIA8vg4D7Yt2E3D0Inmmbr4SZiEY9UkH/view?usp=sharing)
* TOLNet UAH FY23 Accomplishments - Shi Kuang - [pdf](https://drive.google.com/file/d/1FAHx-rTGoMmCAuPDCkQSS4xgY5LSVCt8/view?usp=sharing)
* NASA ARC FY22-23 Accomplishments - Matthew Johnson - [pdf](https://drive.google.com/file/d/1JaQwD-QfpjC3Ko-fMOu2-qRYaU42S7gI/view?usp=sharing)
* TOLNet Data – NASA LaRC - Michael Shook - [pdf](https://drive.google.com/file/d/1BrY-OufAlpsB5SfBQsji0Bo0Fxyd-U21/view?usp=sharing)
* Crystal Gummo
* Gao Chen

**Day 5 Session Ib - Air Quality & Health Applications**

* Air Quality & Health Apps - [pdf](https://drive.google.com/file/d/1pzt5klS3Ym_nLNDk_aNwjjj5x-WvLt44/view?usp=sharing)
* TEMPO L2 Products for AQ Forecasting - [pdf](https://drive.google.com/file/d/1Zy3dbRuatFCIdqXI4fb86-S-T3JWvw9S/view?usp=sharing)

**Day 5 Session IIb - TEMPO Data Distribution & Proxy Data**

* TEMPO Proxy & Operational Data Updates - [pdf](https://drive.google.com/file/d/1JM18DMKIhpCM5PgBVJPOCE0STnu10PQ0/view?usp=sharing)
* Short-Term Prediction Research and Transition Center (SPoRT) - [pdf](https://drive.google.com/file/d/1zensr8n5kztYNEVObaf0Ohr9-sxT4WMd/view?usp=sharing)

**Day 5 Session III - TEMPO Training**

* TEMPO Training - Aaron Naeger - [pdf](https://drive.google.com/file/d/16FTe0EhcHSuvDGcTwg-Mx8Zi3RNPbGU1/view?usp=sharing)
* Data Services Training - Matthew Tisdale - [pdf](https://drive.google.com/file/d/1k2og18Ls_ubSbWvvt2sTiiiz8T7cI6Yc/view?usp=sharing)
* ASDC Updates - Matthew Tisdale - [pdf](https://drive.google.com/file/d/1FjT04FsB6UThjuTMIqITZQktCOY48qsT/view?usp=sharing)
* Python Interface to RSIG (pyrsig) - Barron Henderson - [pdf](https://drive.google.com/file/d/1jHKfHAR7Wwq69wSngmp6DF6jL95LD9qL/view?usp=sharing)

**Posters: (there's 76 of these??)**

* MAIAC Aerosol Retrieval and Hyperspectral Atmospheric Correction of TROPOMI Data - [pdf](https://drive.google.com/file/d/1nfJPW0sZSAaakuu8wGLUJ5TyywaZfTFa/view?usp=sharing)
* The retrieval of aerosol optical properties from the GEMS - [pdf](https://drive.google.com/file/d/1XpZ4qHAG02ulHOAtUzlFJ-smu0xV2svY/view?usp=sharing)
* Profiling Ozone and Aerosol Vertical Distribution, Variation and Transport in New York City Area - [pdf](https://drive.google.com/file/d/1qLTkHqgysNq0LjvJHLSRarY7xQIs5xlo/view?usp=sharing)
* The GEOS Neural Network Retrieval (NNR) for Multi-spectral AOD Patricia Castellanos, Arlindo da Silva - [pdf](https://drive.google.com/file/d/1e-ui_HWSoAHJnR-gFueYUQm_vz6r6UUk/view?usp=sharing)
* Trace Gas Retrieval Performance Simulation as a Function of Signal-To-Noise Ratio (SNR) for the GeoXO Atmospheric Composition Instrument (ACX) - [pdf](https://drive.google.com/file/d/183IrrgVjmGh3_Yn3PGWhYru-gk3qu0UP/view?usp=sharing)
* Planned SOWLETS Technology Demonstration of a UV Lidar for Simultaneous O3, SO2, and Aerosol Profiling - [pdf](https://drive.google.com/file/d/1TNYib7u_5cDlkhEmug0nw-5aUegXzusU/view?usp=sharing)
* Coastal and Over-Water Ozone Profile Observations Obtained by the NASA Langley Mobile Ozone Lidar System - [pdf](https://drive.google.com/file/d/1W0UXh2KC4JA5eLCPYMxFfzQ79upl4moX/view?usp=sharing)
* Cluster analysis of multi-dimensional ozone lidar measurements in coastal environments toward evaluating simulations and advancing TEMPO product - [pdf](https://drive.google.com/file/d/1OiuZiN6TKMEX4r6rGfwaWJjMJZHRCkqQ/view?usp=sharing)
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