Tropospheric Ozone Lidar Network (TOLNet) and Corresponding Suborbital Campaigns

This document/table highlights the various suborbital campaigns that TOLNet lidars have participated in and provides links to the respective TOLNet collection landing pages at the ASDC. Data download options are provided on each page. Earthdata Search allows for narrowing down search results by date (date ranges are provided in the table). SOOT’s Power User Interface allows users to directly navigate to their files of interest. All acronyms are expanded on the table in the next page. This document will be updated as TOLNet participates in more field campaigns.

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| Suborbital Campaign | Applicable TOLNet Lidars | TOLNet Lidar Location | Dates | Link to Corresponding Suborbital Campaign Collection |
| OWLETS-1 | NASA GSFC TROPOZ Lidar;  NASA LaRC LMOL | TROPOZ: NASA LaRC ground site  LMOL: Chesapeake Bay Bridge-Tunnel (CBBT) | TROPOZ: July 7, 2017 – August 1, 2017  LMOL: July 6, 2017 – August 1, 2017 | [OWLETS-1 Lidar Data at the ASDC](https://asdc.larc.nasa.gov/project/OWLETS/OWLETS1_SurfaceLidar_Data_1)  [TROPOZ Lidar Data on SOOT](https://asdc.larc.nasa.gov/soot/power-user/OWLETS/2017/GSFC-LIDAR)  [LMOL Data on SOOT](https://asdc.larc.nasa.gov/soot/power-user/OWLETS/2017/LARC-LIDAR) |
| OWLETS-2 | NASA GSFC TROPOZ Lidar;  NASA LaRC LMOL | TROPOZ: University of Maryland, Baltimore County (UMBC)  LMOL: Hart-Miller Island (HMI) | TROPOZ: June 7, 2018 – July 19, 2018  LMOL: May 23, 2018 – July 2, 2018 | [OWLETS-2 Lidar Data at the ASDC](https://asdc.larc.nasa.gov/project/OWLETS/OWLETS2_SurfaceLidar_Data_1)  [TROPOZ and LMOL Data on SOOT](https://asdc.larc.nasa.gov/soot/power-user/OWLETS/2018/OZONE-LIDAR) |
| LISTOS | NASA GSFC TROPOZ Lidar;  NASA LaRC LMOL | TROPOZ: Rutgers Ground Site  LMOL: Westport Ground Site | TROPOZ: July 19, 2018 – August 17, 2018  LMOL: July 12, 2018 – August 29, 2018 | [LISTOS Rutgers Ground Site at the ASDC (TROPOZ)](https://asdc.larc.nasa.gov/project/LISTOS/LISTOS_Ground_Rutgers_Data_1)  [TROPOZ Data on SOOT](https://asdc.larc.nasa.gov/soot/power-user/LISTOS/2018/GROUND-RUTGERS)  [LISTOS Westport Ground Site Data at the ASDC (LMOL)](https://asdc.larc.nasa.gov/project/LISTOS/LISTOS_Ground_Westport_Data_1)  [LMOL Data on SOOT](https://asdc.larc.nasa.gov/soot/power-user/LISTOS/2018/GROUND-WESTPORT) |
| DISCOVER-AQ | NASA GSFC TROPOZ Lidar  NOAA CSL TOPAZ Lidar | TROPOZ: Fort Collins, Colorado  TOPAZ: BAO Tower, Colorado | TROPOZ Fort Collins: July 9, 2014 – August 2, 2014  TOPAZ: July 9, 2014 – August 18, 2014 | [DISCOVER-AQ TROPOZ Data in the TOLNet Collection at the ASDC](https://asdc.larc.nasa.gov/project/TOLNet/TOLNet_GSFC_Data_1)  [DISCOVER-AQ TOPAZ Data in the TOLNet Collection at the ASDC](https://asdc.larc.nasa.gov/project/TOLNet/TOLNet_CSL_Data_1)  [TOPAZ Data on SOOT](https://asdc.larc.nasa.gov/soot/power-user/DISCOVERAQ/2014-CO/GROUND-BAO-TOWER) |
| KORUS-AQ | NASA GSFC TROPOZ Lidar | NIER Taehwa Ground Site – South Korea | TROPOZ: April 25, 2016 – June 10, 2016 | [KORUS-AQ NASA Ground Site Data at the ASDC](https://asdc.larc.nasa.gov/project/KORUS-AQ/KORUSAQ_Ground_NASA_Data_1) |
| TRACER-AQ | NASA GSFC TROPOZ Lidar;  NASA LaRC LMOL | TROPOZ: La Porte, Texas  LMOL: University of Houston, Houston, Texas | TROPOZ: August 30, 2021 – September 28, 2021  LMOL: August 26, 2021 – September 27, 2021 | [TRACER-AQ TROPOZ Data in the TOLNet Collection at the ASDC](https://asdc.larc.nasa.gov/project/TOLNet/TOLNet_GSFC_Data_1)  [TRACER-AQ LMOL Data in the TOLNet Collection at the ASDC](https://asdc.larc.nasa.gov/project/TOLNet/TOLNet_LaRC_Data_1) |
| STAQS | CCNY Lidar  NASA GSFC TROPOZ Lidar  NASA JPL SMOL Lidars  NASA LaRC LMOL  NOAA CSL TOPAZ Lidar  UAH RO3QET Lidar | CCNY: New York, New York  TROPOZ: Oldfield, New York  JPL: Table Mountain, California; JPL/Pasadena, California; San Bernardino/Cal State, California  LMOL: Sherwood Island, Connecticut  TOPAZ: Yale Coastal Field Site, Guildford, Connecticut  RO3QET: Huntsville, Alabama | CCNY: June 29. 2023 – August 31, 2023  TROPOZ:  JPL TMF: August 22, 2023 – August 27, 2023  JPL SMOL-1 (Pasadena): June 25, 2023 – September 7, 2023\*  JPL SMOL-1 (San Bernardino): June 23, 2023 – September 1, 2023\*  LMOL: July 17, 2023 – August 26, 2023  CSL: July 4, 2023 – August 14, 2023  RO3QET: July 18, 2023 – August 16, 2023 | [STAQS CCNY Data in the TOLNet Collection at the ASDC](https://asdc.larc.nasa.gov/project/TOLNet/TOLNet_CCNY_Data_1)  [STAQS TROPOZ Data in the TOLNet Collection at the ASDC](https://asdc.larc.nasa.gov/project/TOLNet/TOLNet_GSFC_Data_1)  [STAQS JPL Data in the TOLNet Collection at the ASDC](https://asdc.larc.nasa.gov/project/TOLNet/TOLNet_JPL_Data_1)  [STAQS LMOL Data in the TOLNet Collection at the ASDC](https://asdc.larc.nasa.gov/project/TOLNet/TOLNet_LaRC_Data_1)  [STAQS TOPAZ Data in the TOLNet Collection at the ASDC](https://asdc.larc.nasa.gov/project/TOLNet/TOLNet_CSL_Data_1)  [STAQS RO3QET Data in the TOLNet Collection at the ASDC](https://asdc.larc.nasa.gov/project/TOLNet/TOLNet_UAH_Data_1) |

\*Indicates data is not available for each date in date range

Acronym List:

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| **Acronym** | **Definition** |
| CBBT | Chesapeake Bay Bridge Tunnel |
| CCNY | City College of New York |
| CSL | Chemical Sciences Laboratory |
| DISCOVER-AQ | Deriving Information on Surface Conditions from Column and Vertically Resolved Observations Relevant to Air Quality |
| GSFC | Goddard Space Flight Center |
| HMI | Hart-Miller Island |
| JPL | Jet Propulsion Laboratory |
| KORUS-AQ | Korea United States Air Quality Study |
| LaRC | Langley Research Center |
| LISTOS | Long Island Sound Tropospheric Ozone Study |
| LMOL | Langley Mobile Ozone Lidar |
| NASA | National Aeronautics and Space Administration |
| NOAA | National Oceanic and Atmospheric Administration |
| OWLETS | Ozone Water-Land Environmental Transition Study |
| RO3QET | Rocket-city O3 Quality Evaluation in the Troposphere |
| SMOL | Small Mobile Ozone Lidar |
| STAQS | Synergistic TEMPO Air Quality Science |
| TEMPO | Tropospheric Emissions: Monitoring of Pollution |
| TMF | Table Mountain Facility |
| TOLNet | Tropospheric Ozone Lidar Network |
| TOPAZ | Tunable Optical Profile for Aerosol and oZone |
| TRACER-AQ | Tracking Aerosol Convection ExpeRiment – Air Quality |
| TROPOZ | TROPospheric Ozone DIAL |
| UAH | University of Alabama in Huntsville |
| UMBC | University of Maryland, Baltimore County |