This guide summarizes the ER-2 instrument suite for the Summer 2019 FIREX-AQ field campaign. The ER-2 flew from its home base at NASA Armstrong Flight Research Center in Palmdale, CA. Flights occurred during only the Western phase of FIREX-AQ, August 2 – August 21, 2019. Final data for some instruments may not yet be available at these links, please contact the indicated person for additional information.

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| **Instrument** | **Contact** | **FIREX-AQ Data Location** | **Instrument Description** | **Satellite Analogs** | **Spectral Range** | **Spectral Resolution** | **Nominal Spatial Resolution @ER-2 Cruise** | **Nominal Swath @ER-2 Cruise** |
| AirMSPI | Gerard van Harten, NASA JPL | NASA ASDC [AirMSPI Project](https://eosweb.larc.nasa.gov/project/airmspi/airmspi_table) | Airborne Multiangle SpectroPolarimetric Imager | MISR, MAIA | 355-935 nm | 8 bands (3 polarimetric) | 10m | 10km |
| AVIRIS-C | Chuck Sarture, NASA JPL | [AVIRIS Portal](https://aviris.jpl.nasa.gov/dataportal/) | Hyperspectral Vis-SWIR spectrometer | EMIT, SBG | 370-2550 nm | 9.8 nm | 20m | 11km |
| CPL | John Yorks, NASA GSFC | [CPL Portal](https://cpl.gsfc.nasa.gov/firex/firex_enter.htm) | 3-channel backscatter lidar with polarization | CALIPSO, CATS-ISS | 355, 532, 1064 nm | - | 200m | (30m vertical) |
| eMAS | Jeff Myers, NASA ARC (L1B); Rob Levy, NASA GSFC (AOD) | [eMAS Portal](https://mas.arc.nasa.gov/data/deploy_html/firex-aq_home.html) (imagery); [MAS/eMAS Portal](https://ladsweb.modaps.eosdis.nasa.gov/missions-and-measurements/mas/?path=mas) (data) | Vis-IR scanning spectrometer | MODIS, VIIRS, ABI | 445-2400 nm, 3.7 µm, 6.7-14.0 µm | >40nm38 bands | 50m | 37km |
| GCAS | Scott Janz, NASA GSFC | [FIREX-AQ Archive](https://www-air.larc.nasa.gov/cgi-bin/ArcView/firexaq?ER2=1#JANZ.SCOTT/) | UV-Vis-NIR hyperspectral spectrometer | TROPOMI, TEMPO | 300-890 nm | .2-.4nm | 500m | 16km |
| NAST-I | Allen Larar, NASA LaRC | [FIREX-AQ Archive](https://www-air.larc.nasa.gov/cgi-bin/ArcView/firexaq?ER2=1) | IR scanning interferometer | AIRS, CrIS | 3.5-16 µm | 0.25 cm-1 | 2600m | 40km |
| S-HIS | Joe Taylor, Univ. Wisconsin | [FIREX-AQ Archive](https://www-air.larc.nasa.gov/cgi-bin/ArcView/firexaq?ER2=1#TAYLOR.JOE/) | IR scanning interferometer | AIRS, CrIS | 3.3-18 µm | 0.50 cm-1 | 2000m | 40km |