

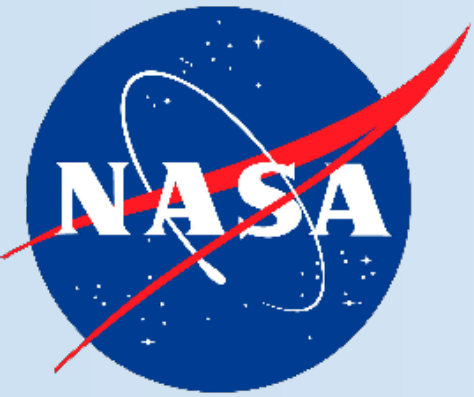
# ACTIVATE

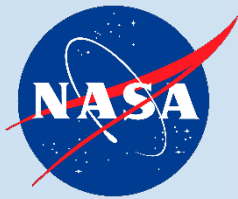
## Trace Gas - Data Overview

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ACTIVATE 2021 Data Workshop





# Payload and Data Status



Instrument	Species	Data Rate	Precision ( $1\sigma$ )	Accuracy
DLH	H <sub>2</sub> O(v)	1 Hz/20 Hz	0.1%/0.05 ppmv	5%/1 ppmv
PICARRO G2401-m	CO <sub>2</sub>	0.4 Hz	0.1 ppm	0.1 ppm
	CH <sub>4</sub>	0.4 Hz	1 ppb	1%
	CO	0.4 Hz	4 ppb	2%
2B Tech	O <sub>3</sub>	0.5 Hz	2 ppbv	5 ppbv

- Data for 2020 campaigns are final
- Outstanding work for final 2021 data
  - DLH
    - Final processing using fast temperature data
  - PICARRO
    - Awaiting post-campaign calibration gas assay from NOAA
  - Ozone
    - Final lab calibration
- Known issues
  - DLH susceptibility to dense clouds
    - Improved hardware and data quality for summer 2021
  - PICARRO contamination due to inlet leak in flights 1-9 (2020)
    - higher altitude data for these flights have been removed
  - Ozone altitude/pressure dependence

