

Compact Airborne NO₂ Experiment **CANOE-NO2**

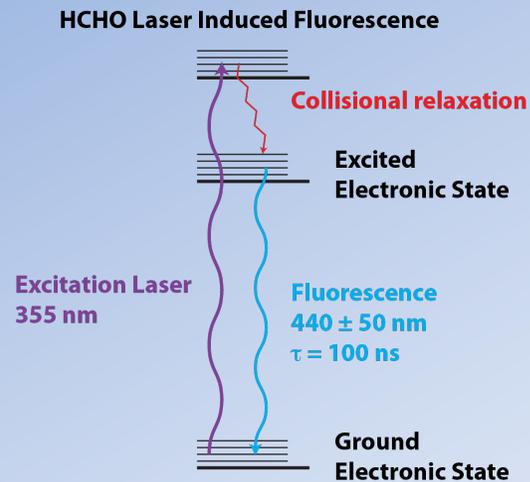
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Data Collection/Creation Process

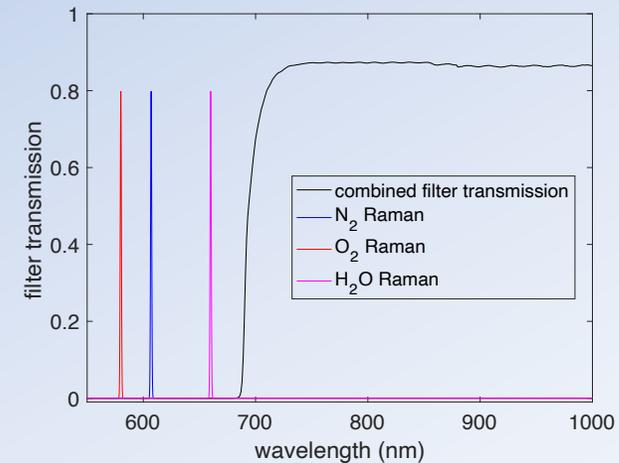
- Non-resonant laser-induced fluorescence (NR-LIF)

- Laser excitation

- NO₂ at 532 nm



- PMTs detect red-shifted fluorescence



- Requires laboratory calibration to convert signal to mixing ratio.

File Structure & Content

- Archived files will include a time stamp and in situ mixing ratio in pptv of nitrogen dioxide (NO_2)
- File format: .ict
- File size: ~400 kB

Data Limitations & Considerations

- Final details on accuracy, precision will be provided in the .ict data files
- Strongly suggested to communicate with instrument team early in your analysis to avoid embarrassing misuse of data.

Tentative Archival Timeline

- Final data will be archived by February 2022

