

CSET In Situ Chemical Trace Gas Data

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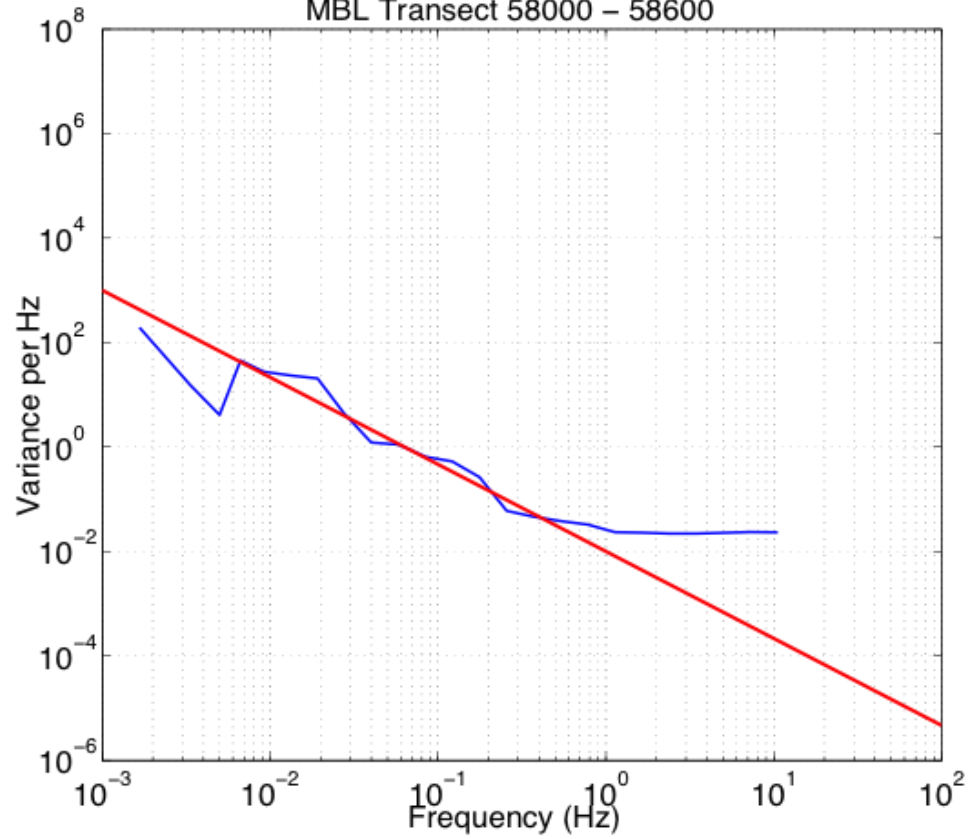
Aero-Laser VUV Fluorescence Carbon Monoxide Instrument

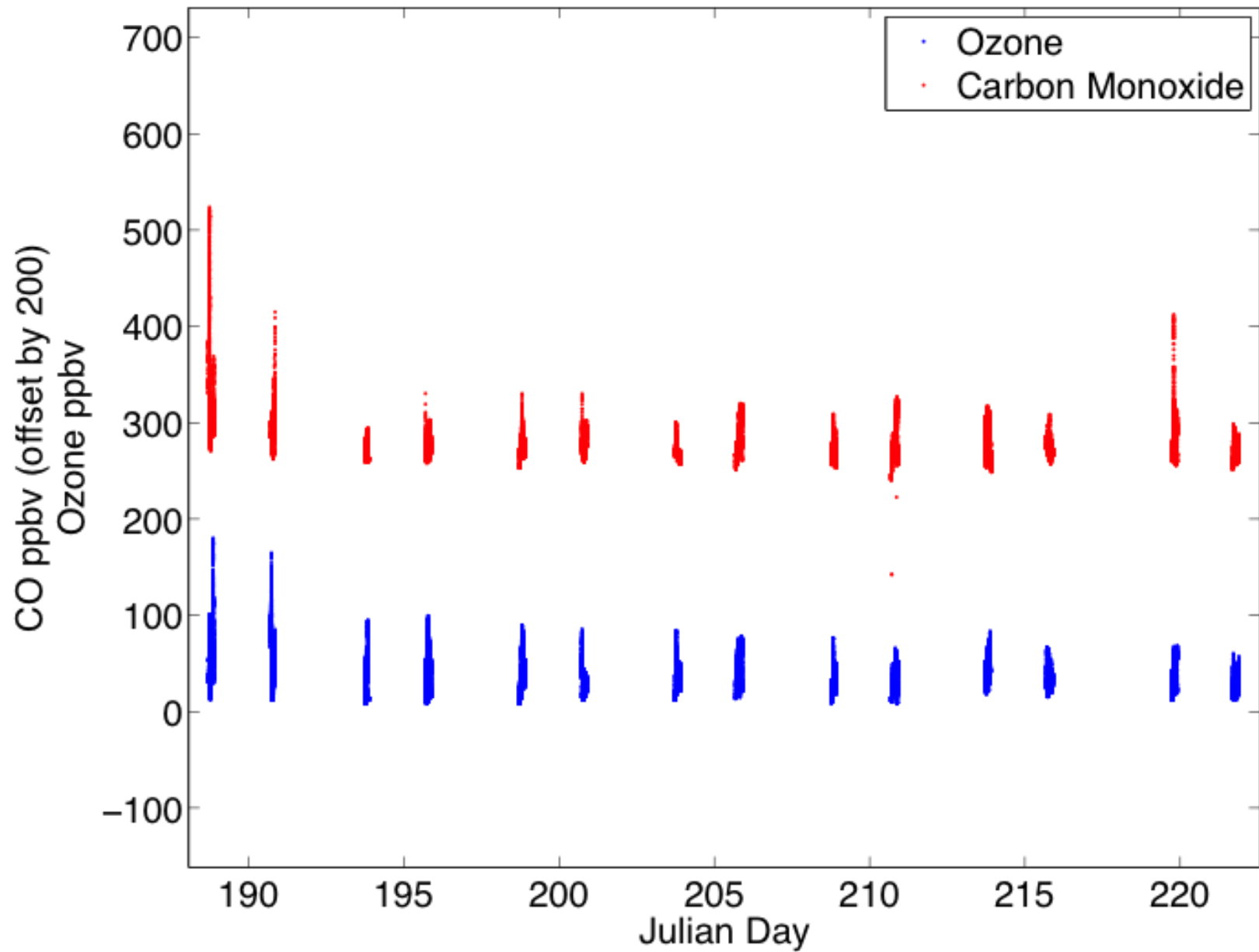
- Aero-Laser AL5002 has a 1-second time resolution and a 2 ppbv precision and lower detection limit and an overall uncertainty estimate: $\pm (2 \text{ ppbv} + 5\%)$.
- In-flight calibrations consisted of a single calibration gas and a zero measurement using a catalytic scrubber to remove CO quantitatively from either ambient or standard gas. A full calibration cycle will be conducted approximately twice hourly.
- The secondary standard concentration quantified using two NOAA GMD primary standards.

NCAR Ozone Instrument

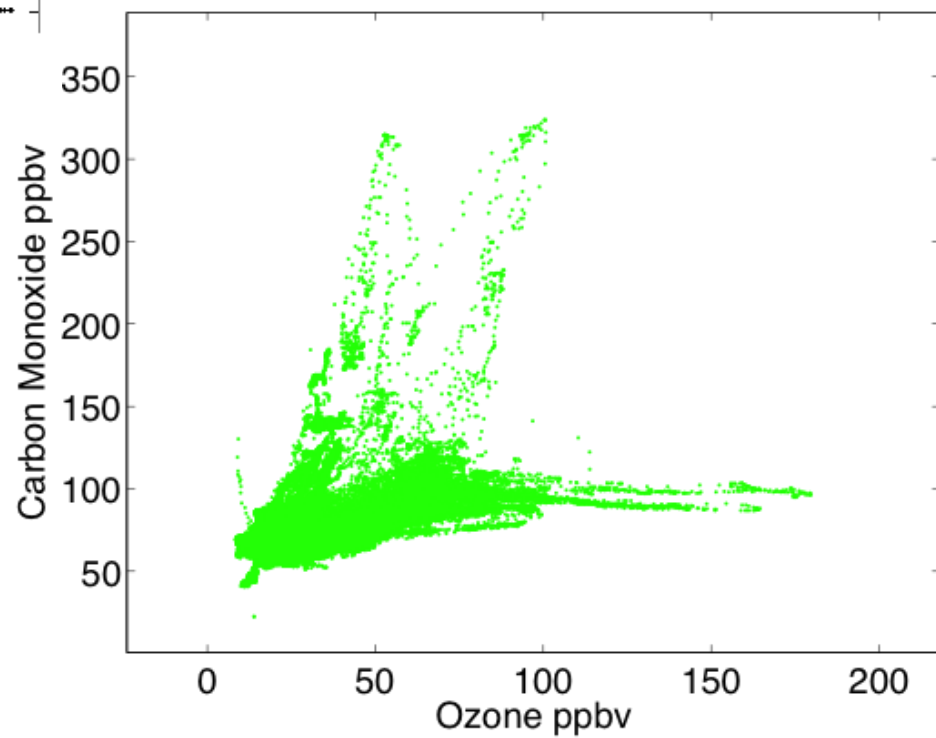
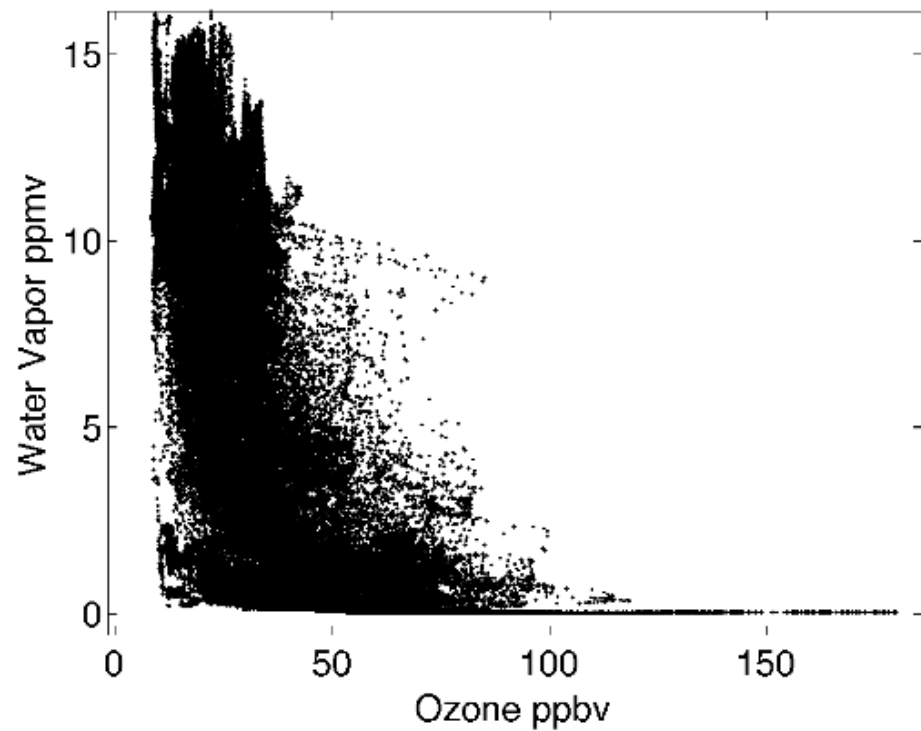
- Ozone was quantified by chemiluminescent reaction with nitric oxide.
 - Native data have a 0.04-second time resolution.
 - Two data sets produced with 0.04-s and 1-s resolutions.
 - Precision: 0.2 ppbv (1-s average), 0.6 ppbv (0.04-s average)
 - Overall uncertainty estimate: \pm (5%)
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- In-flight zeroes were conducted approximately hourly.
 - Multipoint laboratory calibrations were conducted using a TEI calibration system.

Power Spectral Density of RF02 Ozone
MBL Transect 58000 – 58600

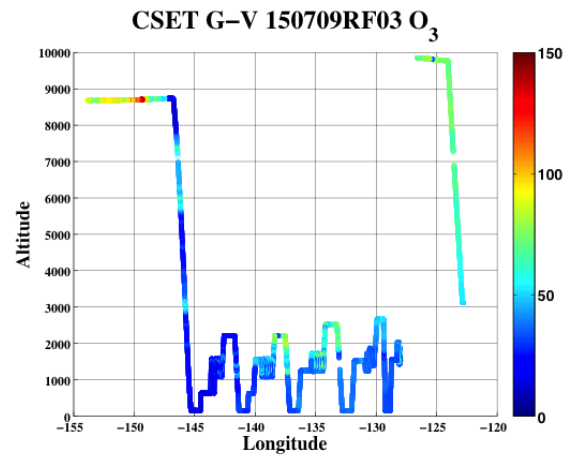
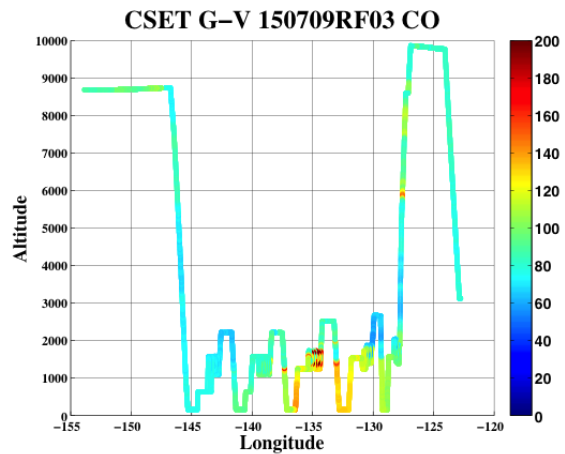
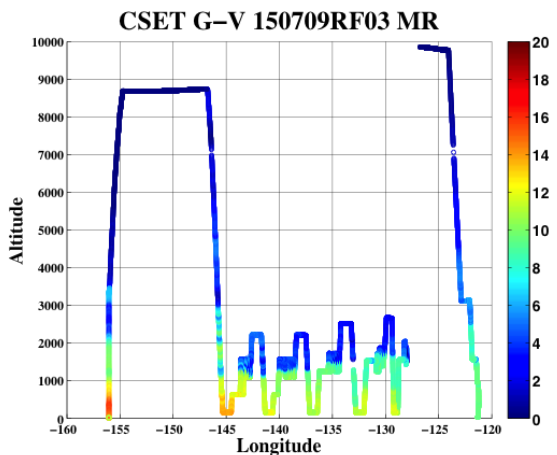
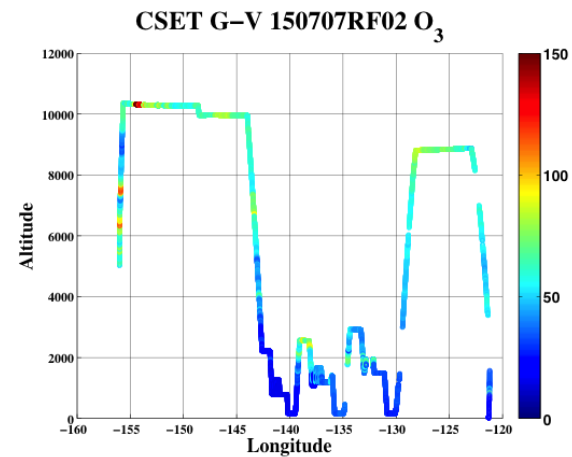
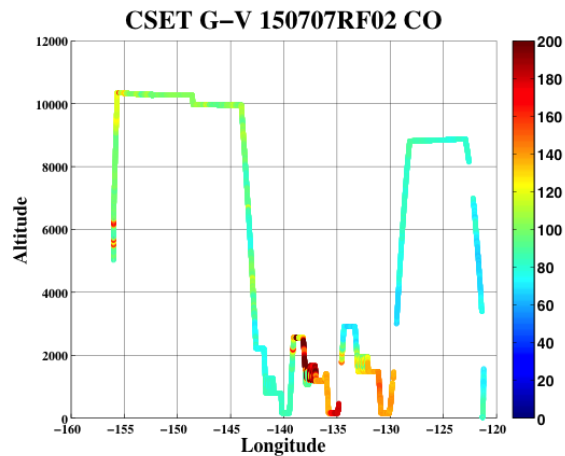
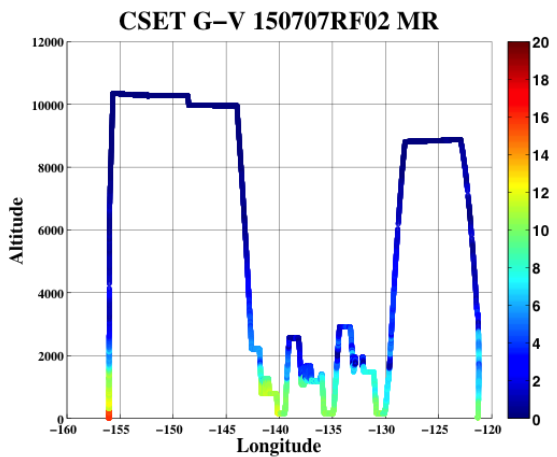




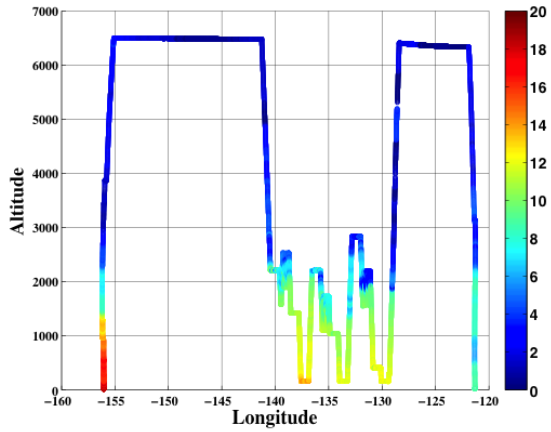
CSET All RF02-15 Oceanic Sounding Data (Lon < -135)



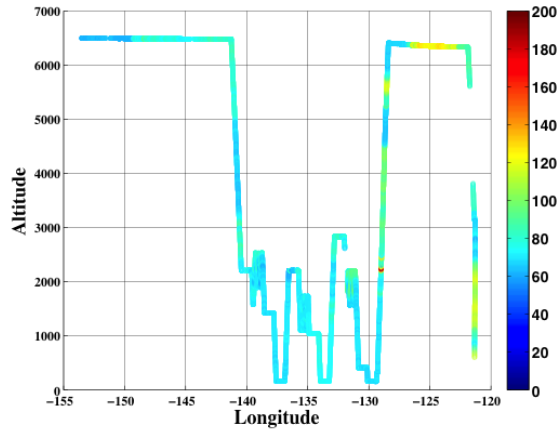
RF02 and RF03



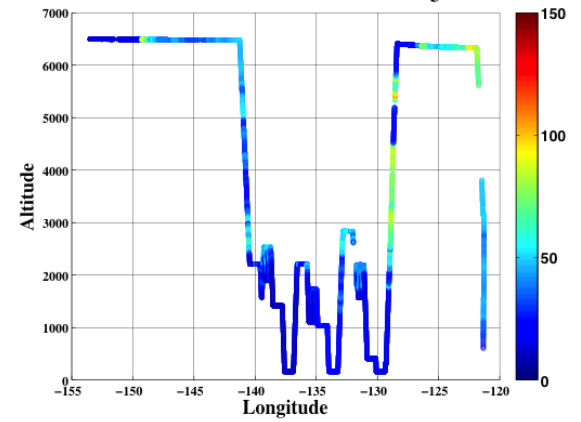
CSET G-V 150712RF04 MR



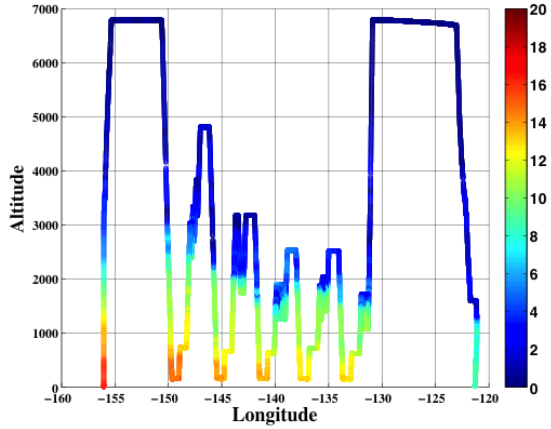
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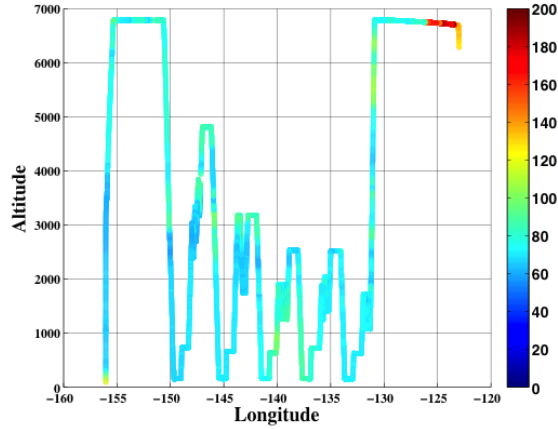
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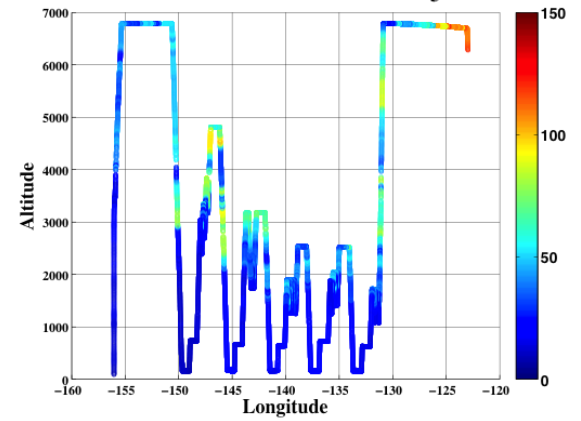
CSET G-V 150714RF05 MR



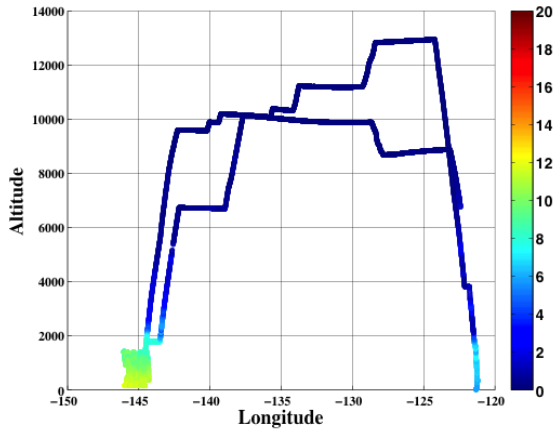
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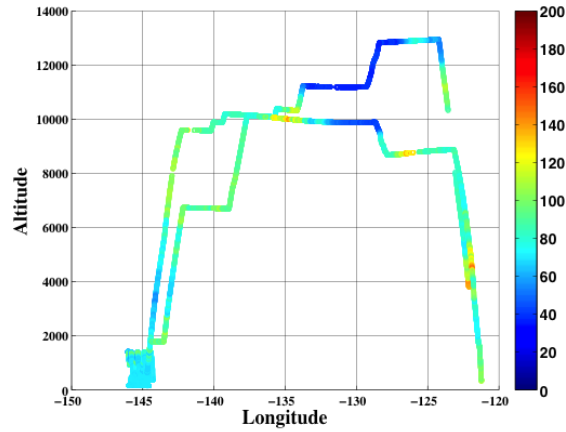
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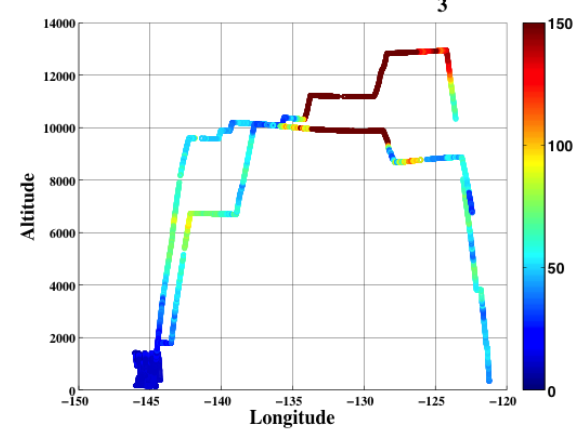
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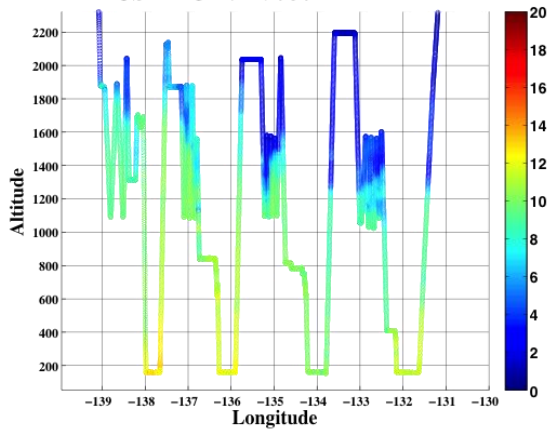
CSET G-V 150812RF16 CO



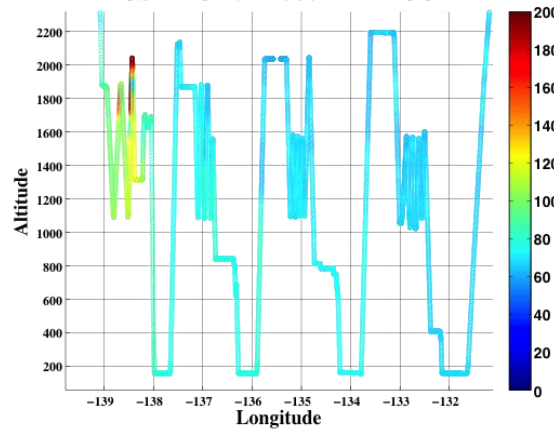
CSET G-V 150812RF16 O₃



CSET G-V 150807RF14 MR



CSET G-V 150807RF14 CO



CSET G-V 150807RF14 O₃

