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- Designed and built in 1996 as a High Altitude Balloon instrument
- Uses a Licor-6251 (4.26 micron, 150 nm bandpass) inside a Pressure Vessel
- Performs in-flight calibrations (zeros every 10 mins, LS & HS every 30 mins, PRI every 2 hrs) to track instrument performance during flight and within a campaign



 HIPPO-1 through HIPPO-5 have all been finalized and files have been submitted to the archive (under \_QAQC folders).

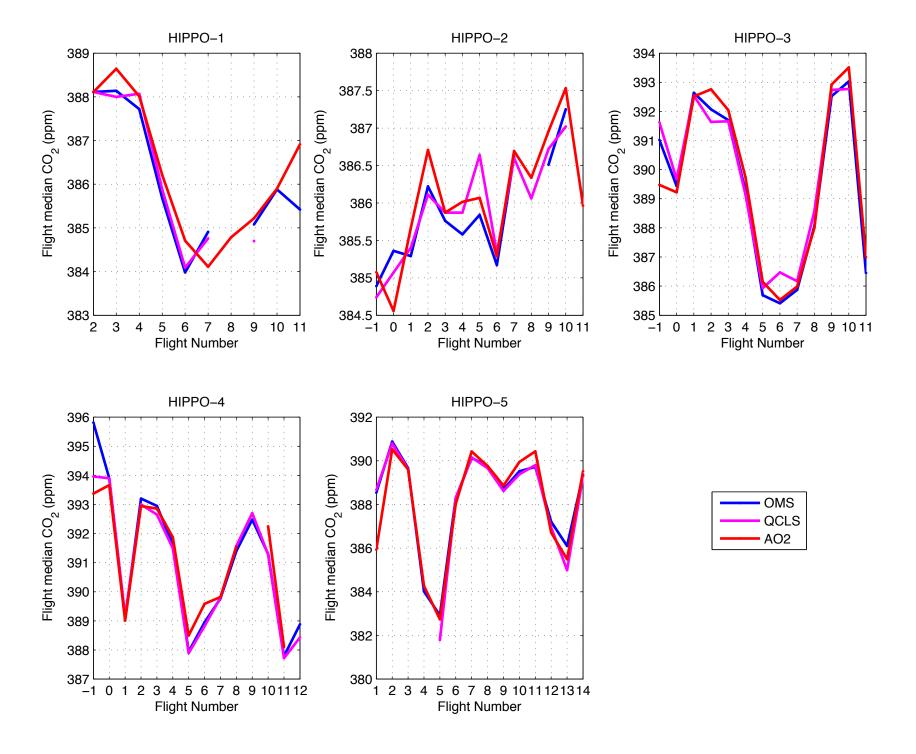
 HIPPO-3 was reprocessed and new files have been uploaded to the archive as of this past weekend.

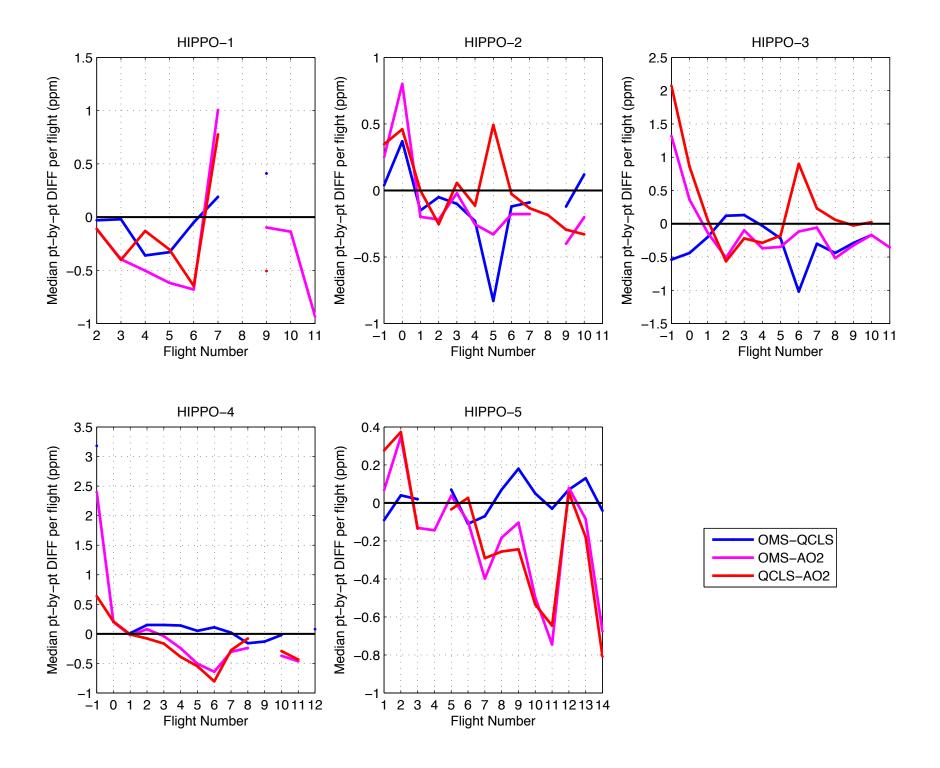
- Flight Performance:
  - H-1: missing 1 flight out of 10 (RF08)
  - H-2: missing 2 flights out of 11 (RF08, RF11)
  - H-3: missing NO flights out of 11
  - H-4: missing NO flights out of 12
  - H-5: missing NO flights out of 13

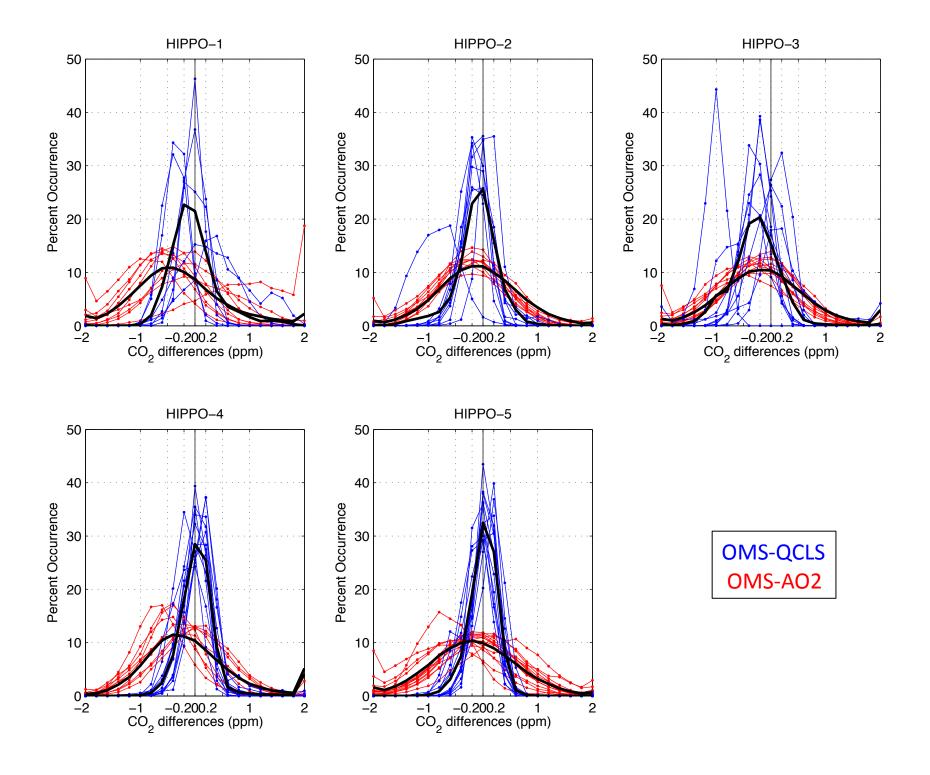
54 of 57 flights sampled!

- Flight Performance:
  - H-1: missing 3 flights out of 10 (RF08, RF10, RF11)
  - H-2: missing 1 flight out of 11 (RF11)
  - H-3: missing 1 flight out of 11 (RF11)
  - H-4: missing NO flights out of 12
  - H-5: missing NO flights out of 13

53 of 57 flights sampled!







#### Future Work...

 Comparisons to other HIPPO CO<sub>2</sub> measurements

Development of CO2\_X product

CO<sub>2</sub> data exist for ALL 57 HIPPO research flights from one, two, or most commonly all three in situ instruments!