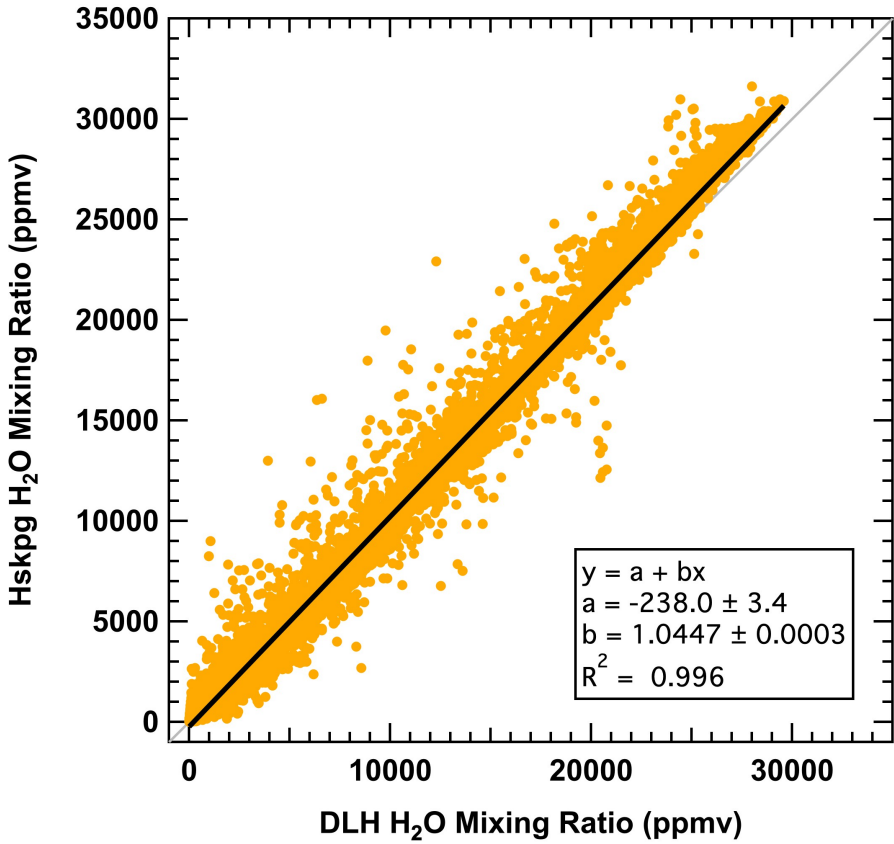
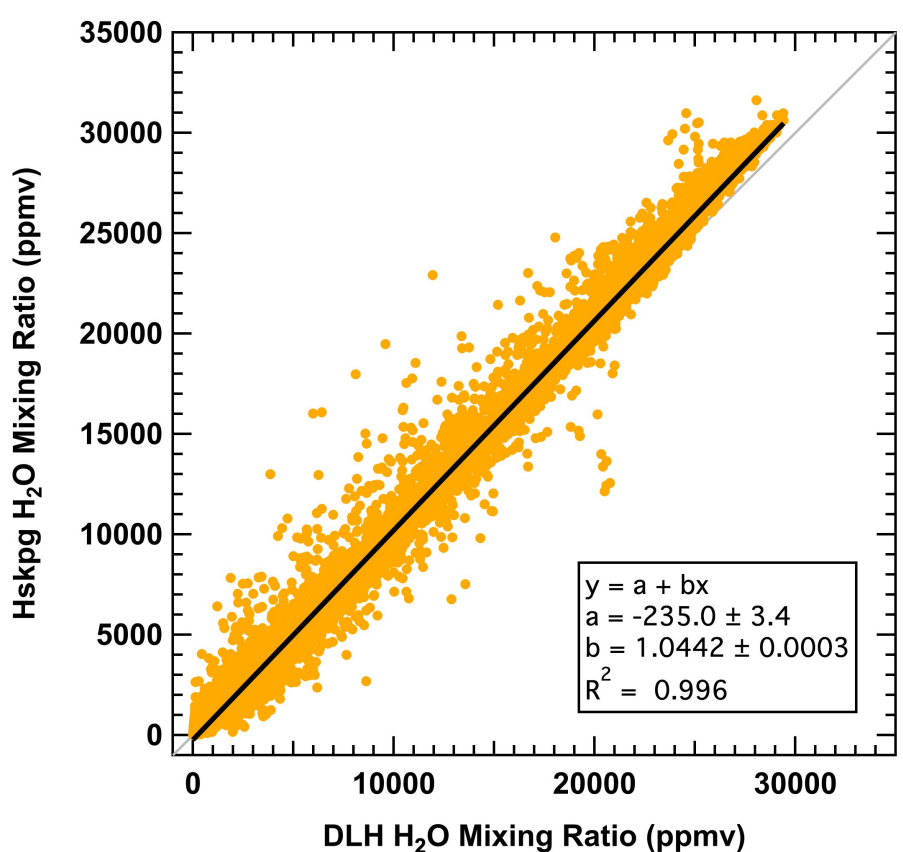


H₂O Mixing Ratio – Hskpg vs DLH

Archive 10s Merge – 49732 pts

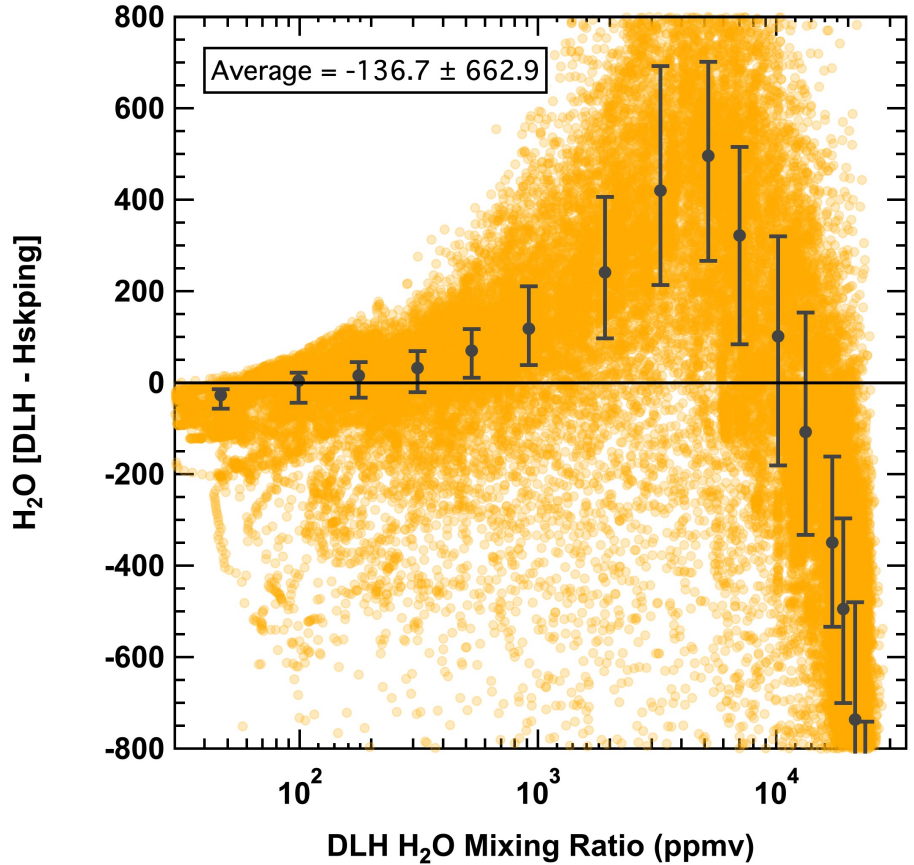


10s Merge with 70% Data - 48949 pts

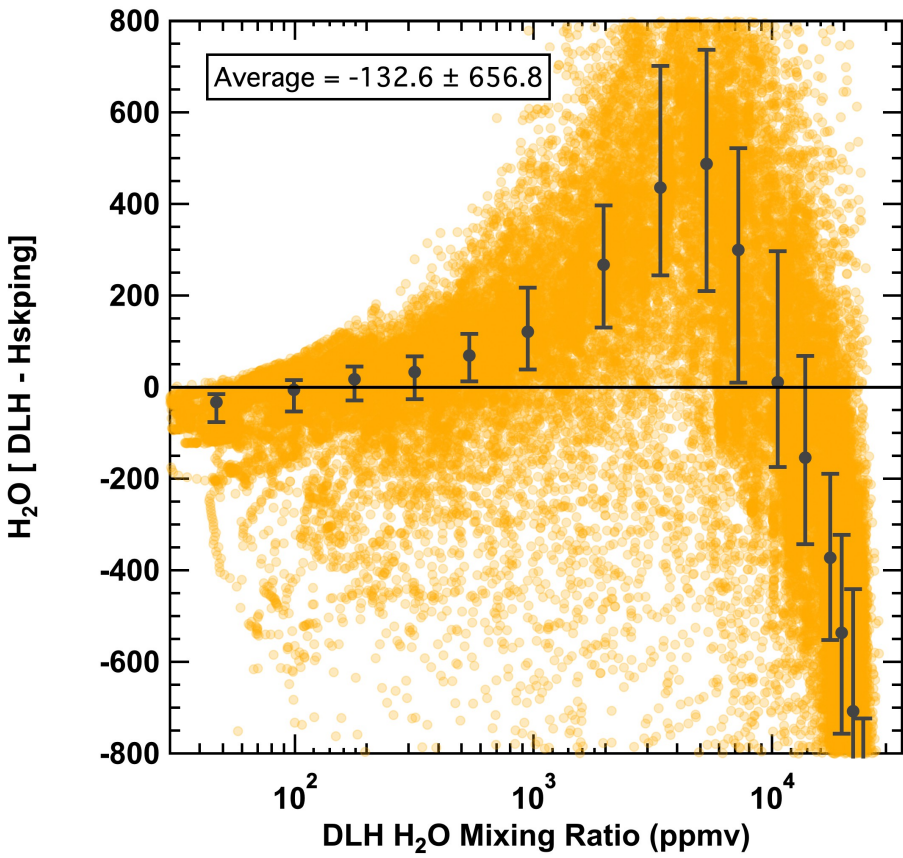


Difference dependence on H₂O value

Archive 10s Merge



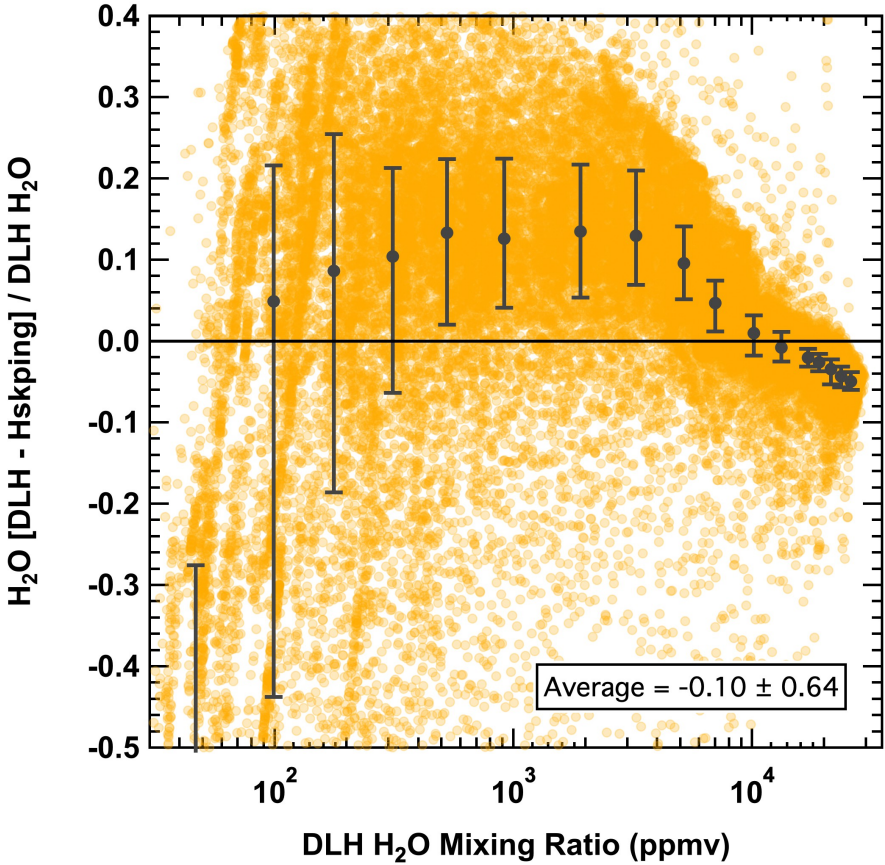
10s Merge with 70% Data



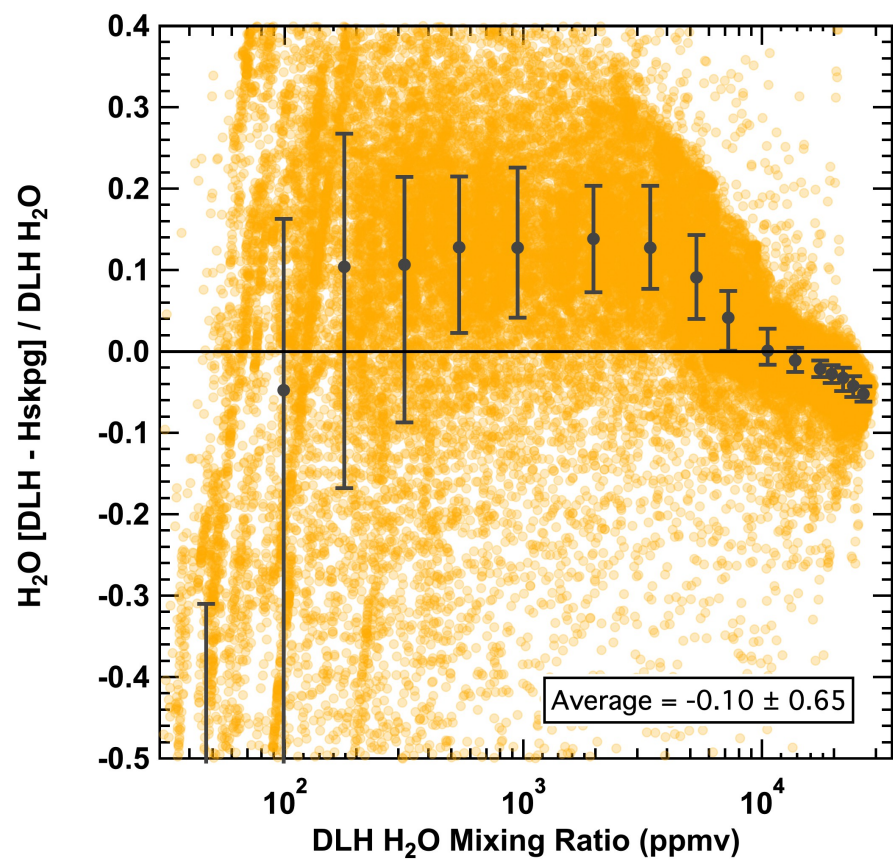
┌───┐ 75th Percentile
● Median
└───┘ 25th Percentile

Relative difference dependence on H₂O value

Archive 10s Merge



10s Merge with 70% Data



┌─── 75th Percentile
● Median
└─── 25th Percentile

Data:

- 10s merge: SEAC4RS-mrg10-dc8_merge_20130806_R5_thru20130923.ict
- Hskping: seac4rs-dc8hskping_dc8_#####_r0.ict (##### = daily files from 20130806 – 20130923)
- DLH: SEAC4RS-DLH_DC8_#####_R1.ict (##### = daily files from 20130806 – 20130923)

Correlation:

- 10s merge with 70% data are calculated using archive PI data files. Each merge interval must contain at least 70% of data for analysis.
- Fit lines are derived from orthogonal distance regressions.
- R^2 values are calculated independently, not from orthogonal distance regression.

Difference dependence on H₂O value:

- Absolute difference calculated by DLH – Hskpg.
- Median, 25th, and 75th percentiles based on 3000 data point bins after data is sorted by DLH values.