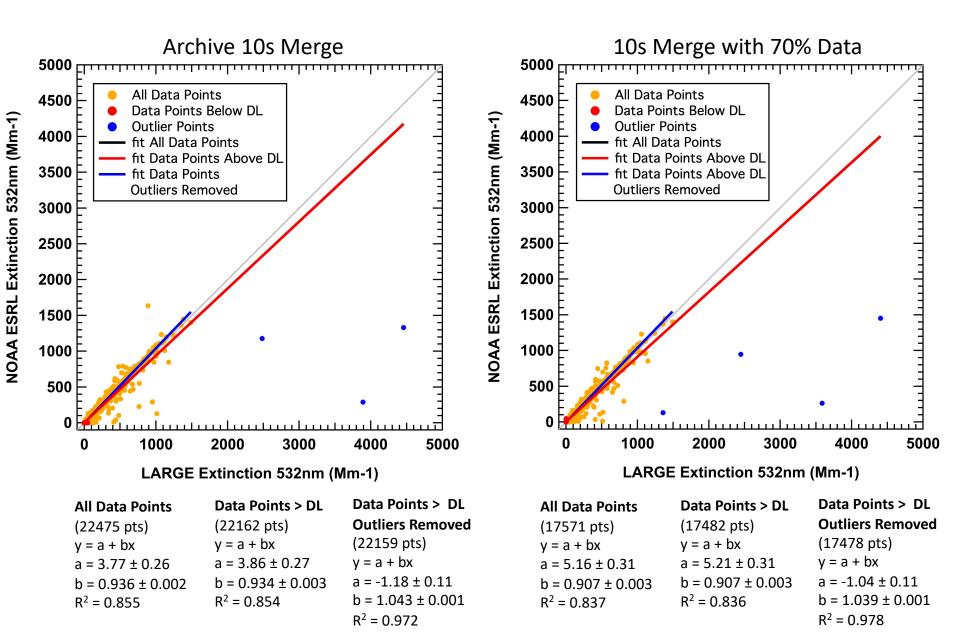
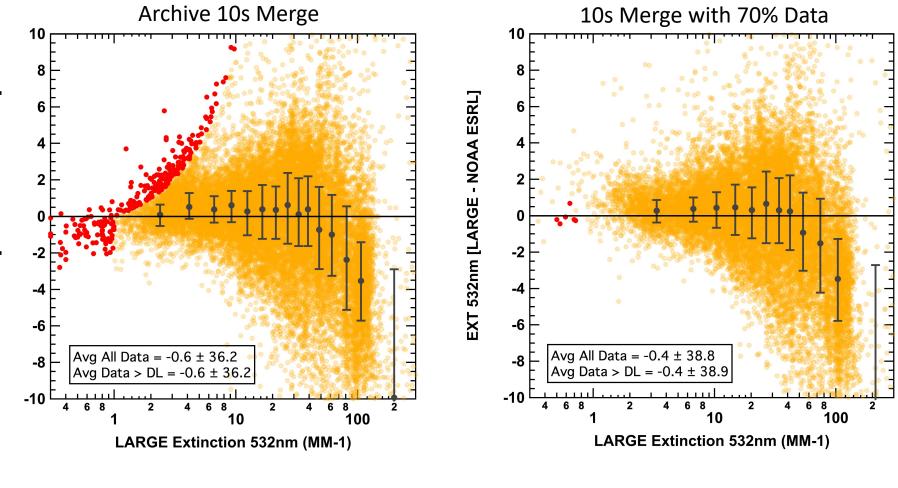
Dry Extinction at 532nm – NOAA CRDS vs LARGE



Difference dependence on extinction value



(All Data Points, Data Points < DL)</p>

75th Percentile Median 25th Percentile

Data:

- **10s Merge:** SEAC4RS-mrg10-dc8_merge_20130806_R5_thru20130923.ict
- **1s LARGE:** SEAC4RS-LARGE-OPTICAL_DC8_#########R3.ict (######## = daily files from 20130808 20130923)

Correlation:

- 10s merge with 70% data are calculated using 1s PI data files. Each 10s interval must contain at least 70% of data for analysis.
- Data points below the DL (LARGE < 1 Mm-1, NOAA < 1 Mm-1) are colored red.
- 10s archive merge outliers removed iteratively when Cook's Distance > 1 (https://en.wikipedia.org/wiki/Cook%27s_distance).
- Outlier removed from 70% data 10s merge based on largest Cook's Distance.
- Fit lines are derived from orthogonal distance regressions.
- R² values are calculated independently, not from orthogonal distance regression.
- Data reported at STP (273 K & 1013 mb).

Difference dependence on extinction value:

- Absolute difference calculated by LARGE NOAA.
- Median, 25th, and 75th percentiles based on 1500 data point bins after data is sorted by LARGE extinction values.