Temperature – Hskpg vs MMS

Archive 10s Merge – 61005 pts

\[ y = a + bx \]
\[ a = 4.799 \pm 0.009 \]
\[ b = 0.98 \pm 3.2e-05 \]
\[ R^2 = 1.00 \]

10s Merge with 70% Data – 60977 pts

\[ y = a + bx \]
\[ a = 4.801 \pm 0.009 \]
\[ b = 0.98 \pm 3.2e-05 \]
\[ R^2 = 1.00 \]
Difference dependence on temperature value

Archive 10s Merge

10s Merge with 70% Data

Average = 0.33 ± 0.52

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)
• MMS: SEAC4RS-MMS-1HZ_DC8_#######_R0.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 temperature value:
• Absolute difference calculated by MMS – Hskpg.
• Median, 25th, and 75th percentiles based on 3000 data point bins after data is sorted by MMS values.