

UTC(MIKE) Atomic Bulletin 2017-12

VTT MIKES Metrology monthly Time & Frequency bulletin.

Comments and questions to: time "at" vtt.fi

Date of publication: 2017-12-15

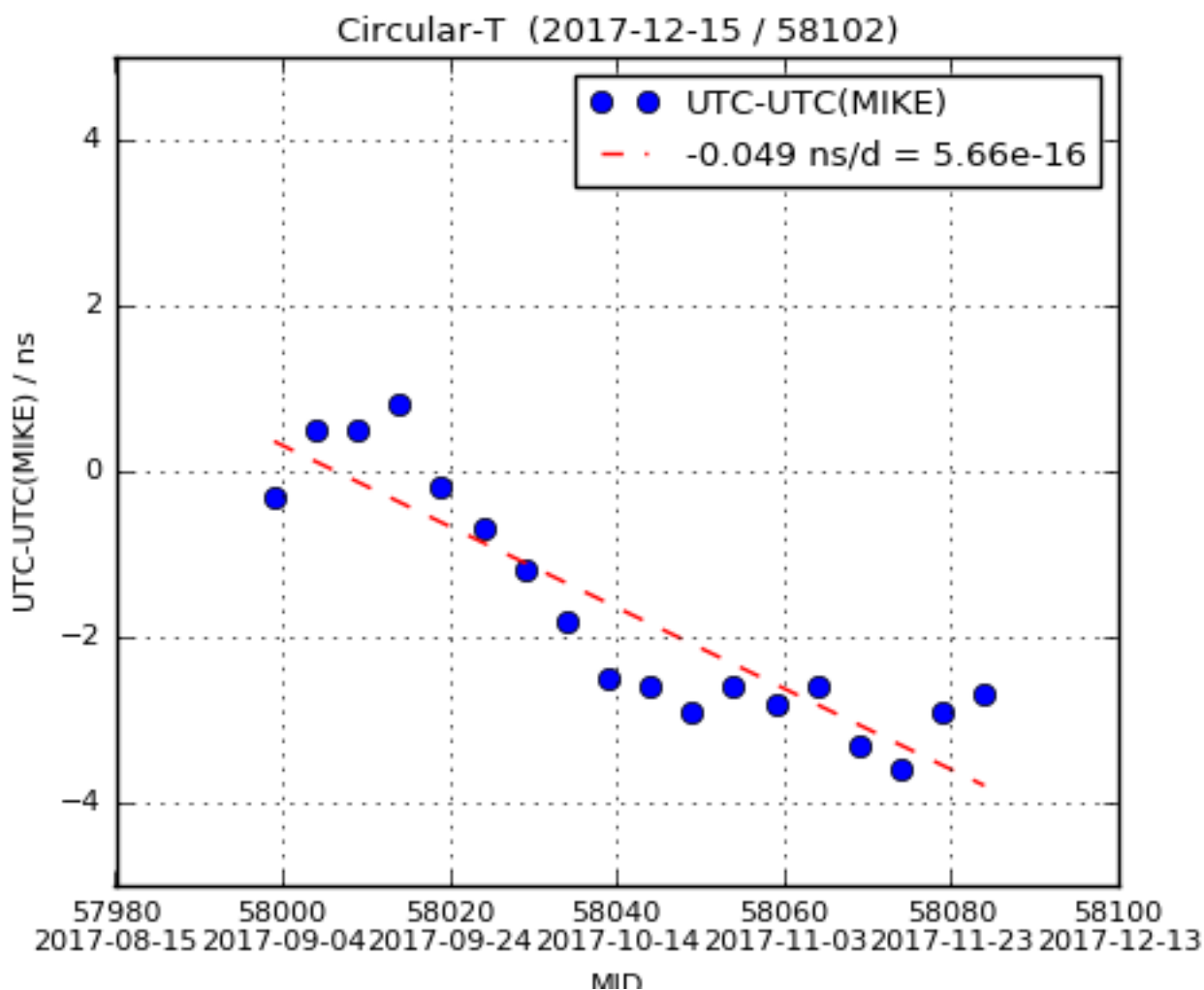
Circular-T issues used for analysis: [357](#), [358](#), [359](#),

First day of analysis interval: 2017-09-03 (57999)

Last day of analysis interval: 2017-11-27 (58084)

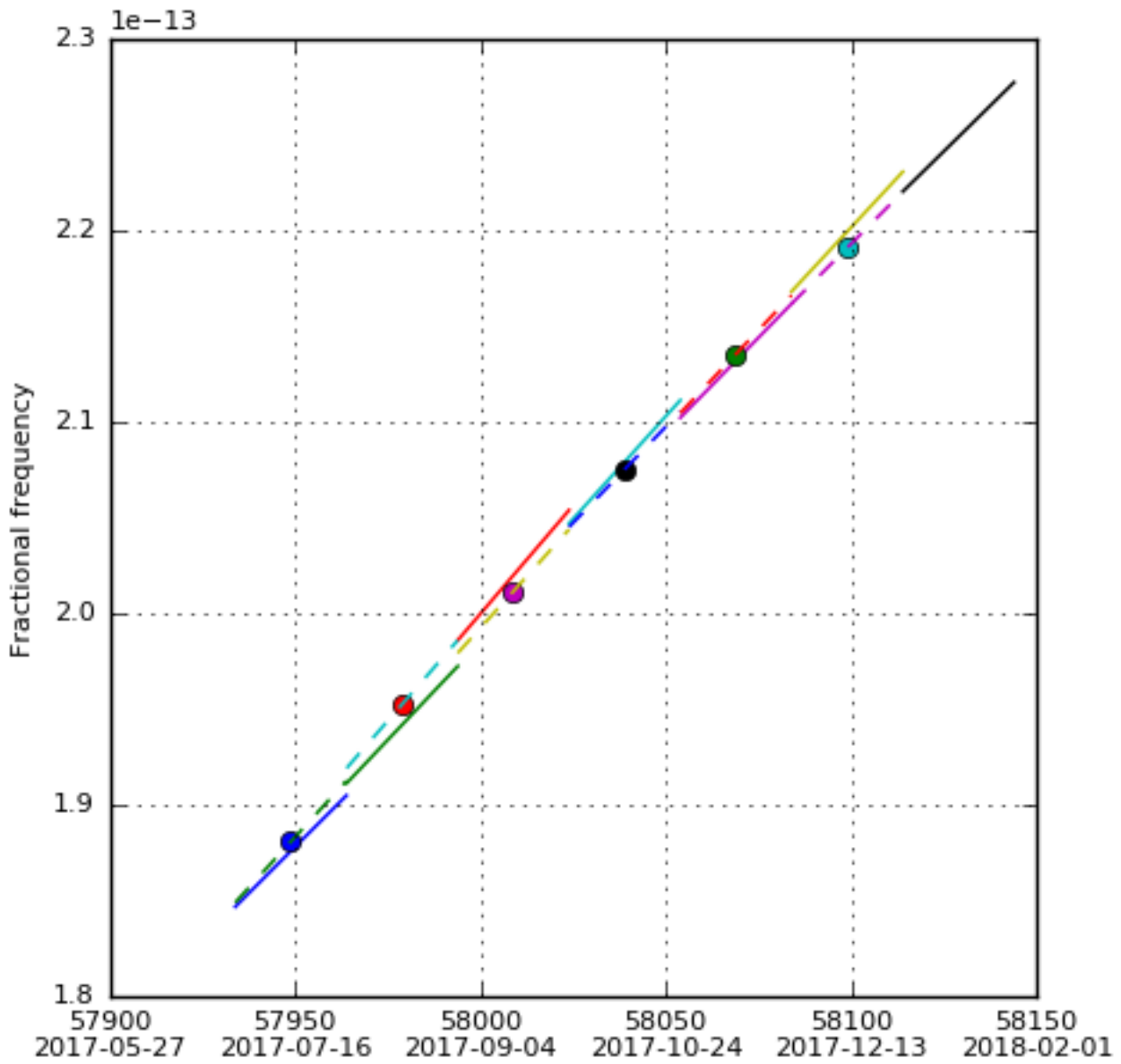
ClockData for analysis: [CDMI 17.09](#), [CDMI 17.10](#), [CDMI 17.11](#),

UTC-UTC(MIKE) as reported in Circular-T



UTC-UTC(MIKE) is available on 5 day intervals on MJD dates ending with 4 or 9. Values are published monthly by the BIPM in Circular-T.

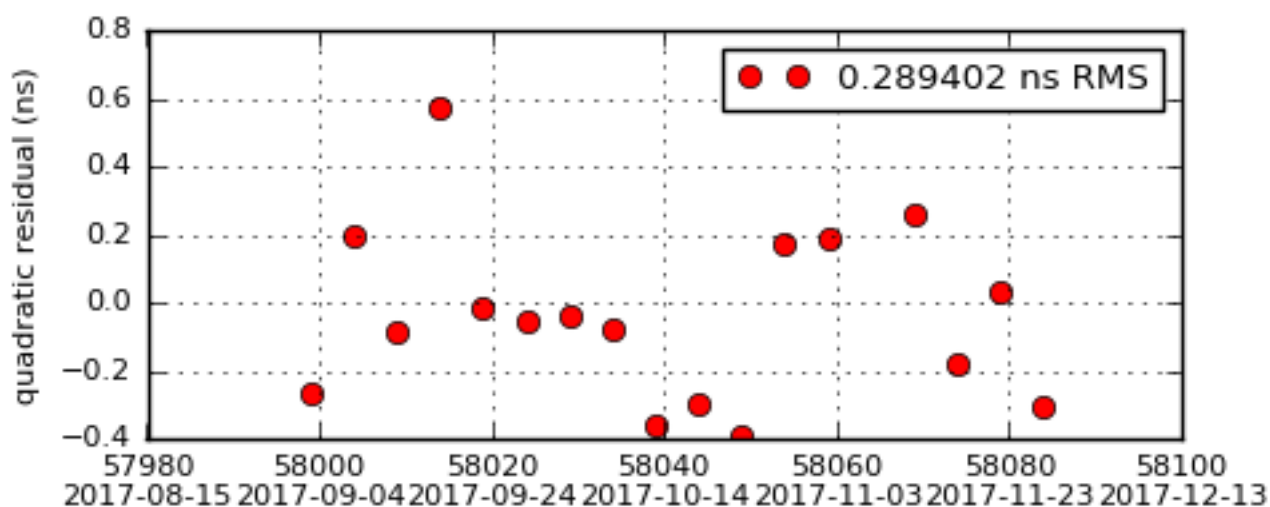
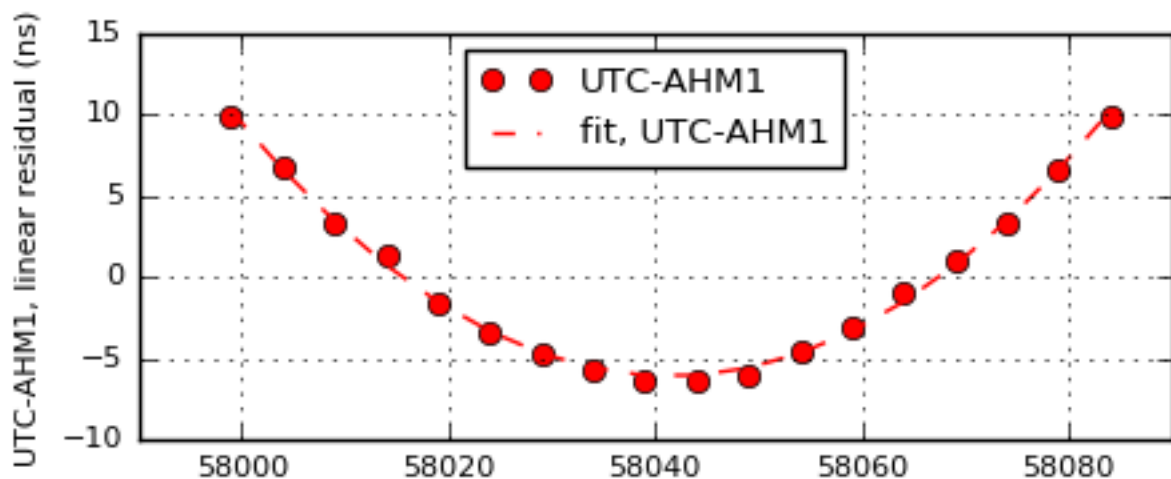
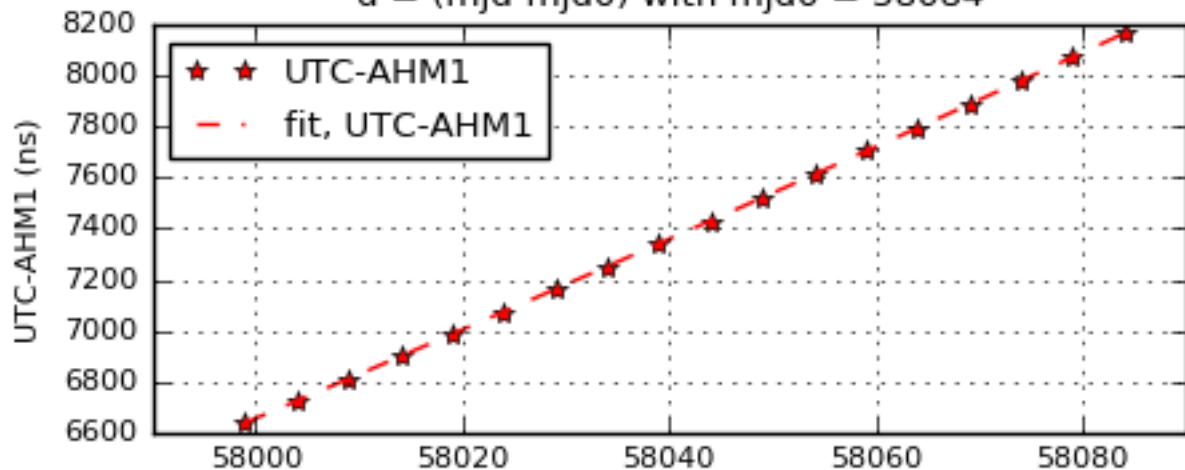
UTC(MIKE) frequency steering parameters



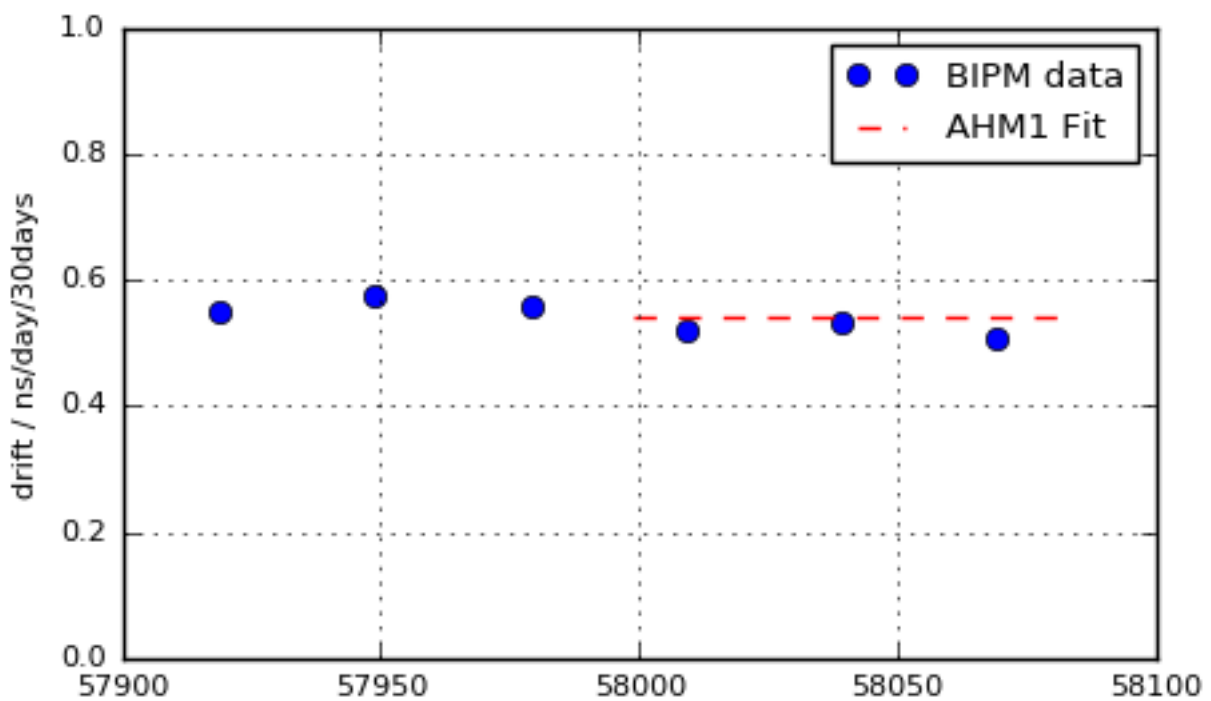
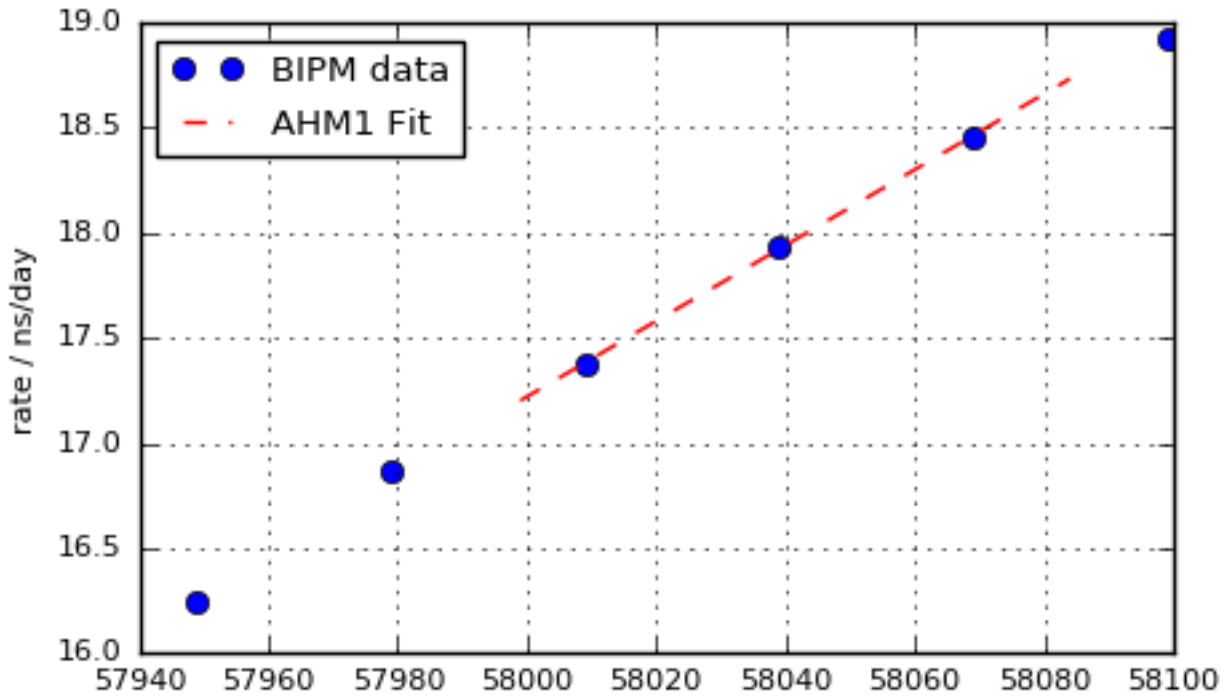
UTC(MIKE) Master Clock is AHM1 since 2017-07-15.
Solid lines indicate UTC(MIKE) steering parameters derived from UTC-ClockData fits.
Symbols and dashed lines indicate MasterClock rates and drifts as published by BIPM.

UTC - AHM1 Fit

UTC-AHM1 (2018-01-11 / 58129)
 $x \text{ (ns)} = 8165.804 + 18.733 * d + 0.0090 * d * d$
 $y = -2.16812e-13 + -2.08351e-16 * d$
 $d = (\text{mjd} - \text{mjd0}) \text{ with mjd0} = 58084$

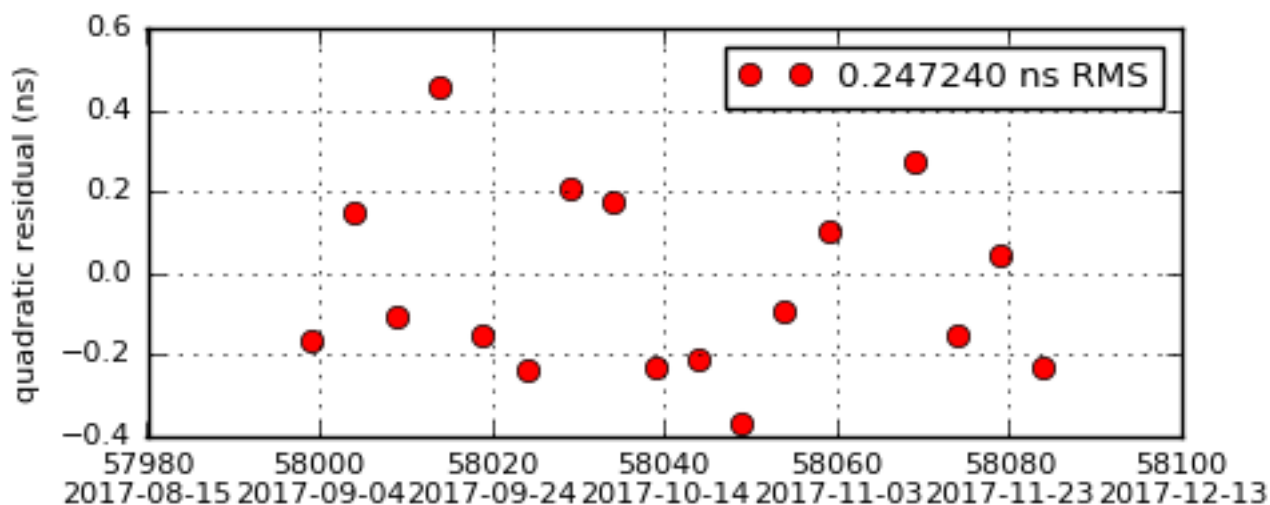
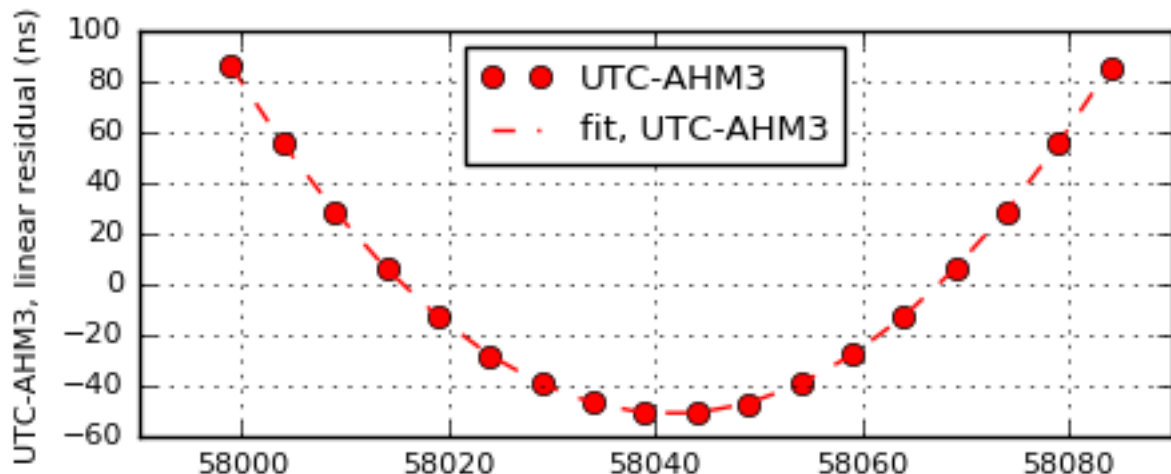
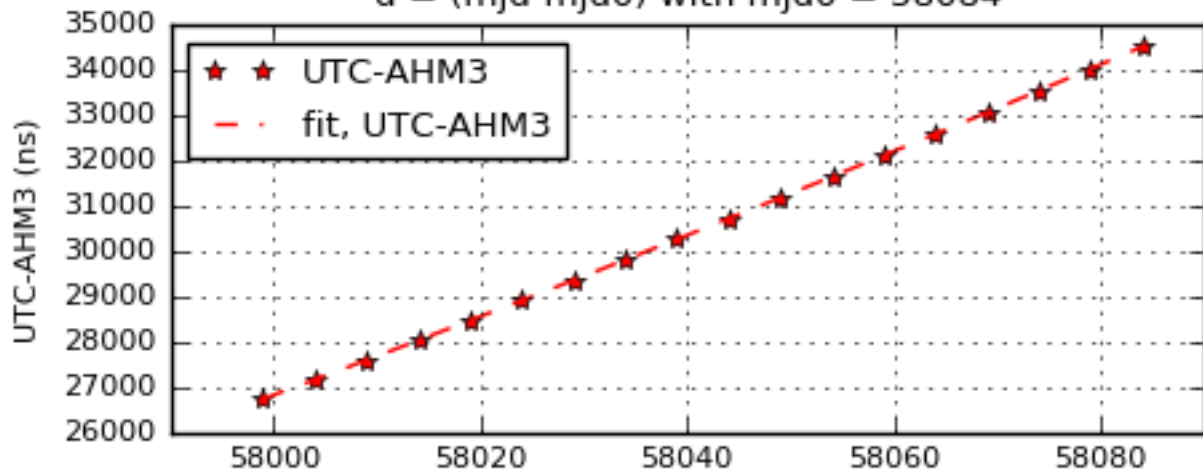


AHM1 Rate and Drift

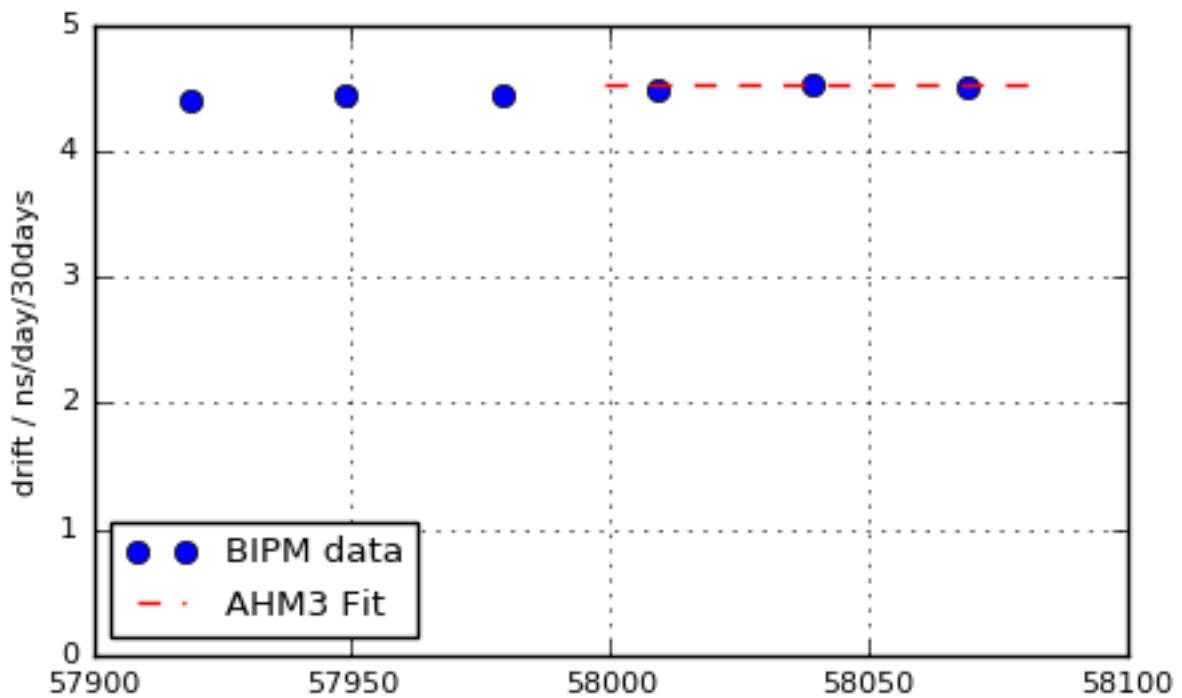
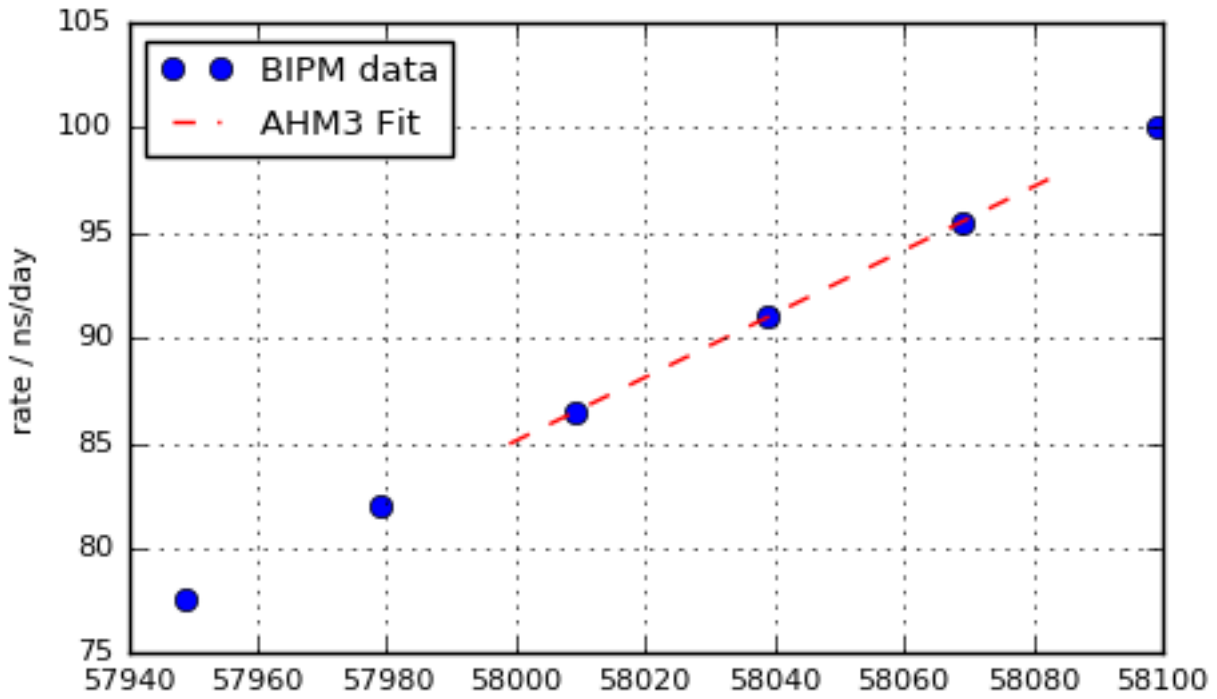


UTC - AHM3 Fit

UTC-AHM3 (2018-01-11 / 58129)
 $x \text{ (ns)} = 34511.029 + 97.792 * d + 0.0755 * d*d$
 $y = -1.13186e-12 + -1.74737e-15 * d$
 $d = (\text{mjd} - \text{mjd0}) \text{ with mjd0} = 58084$

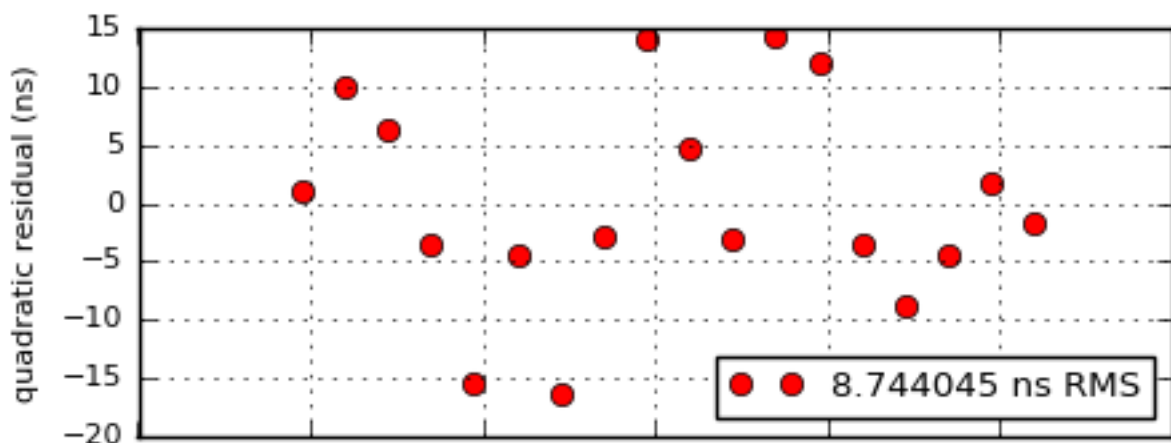
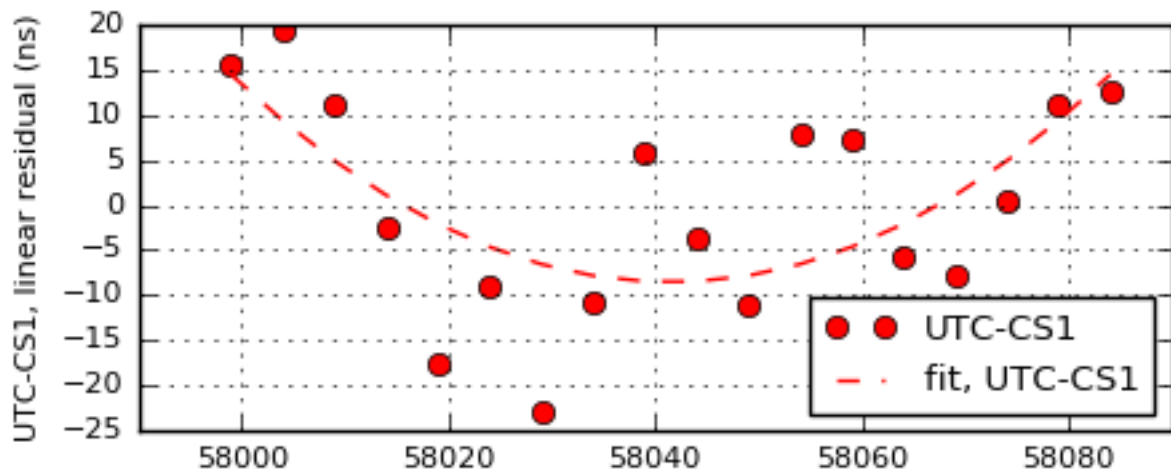
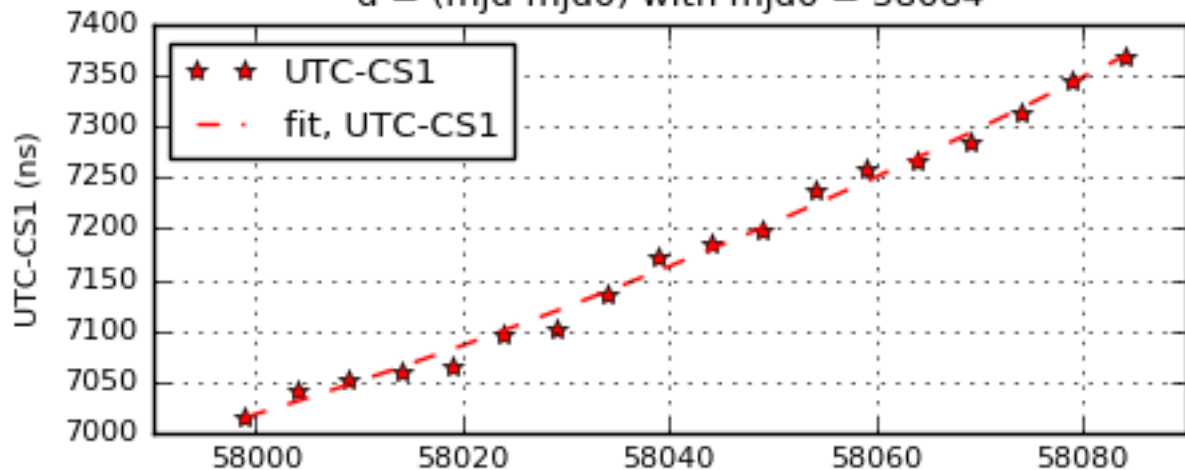


AHM3 Rate and Drift



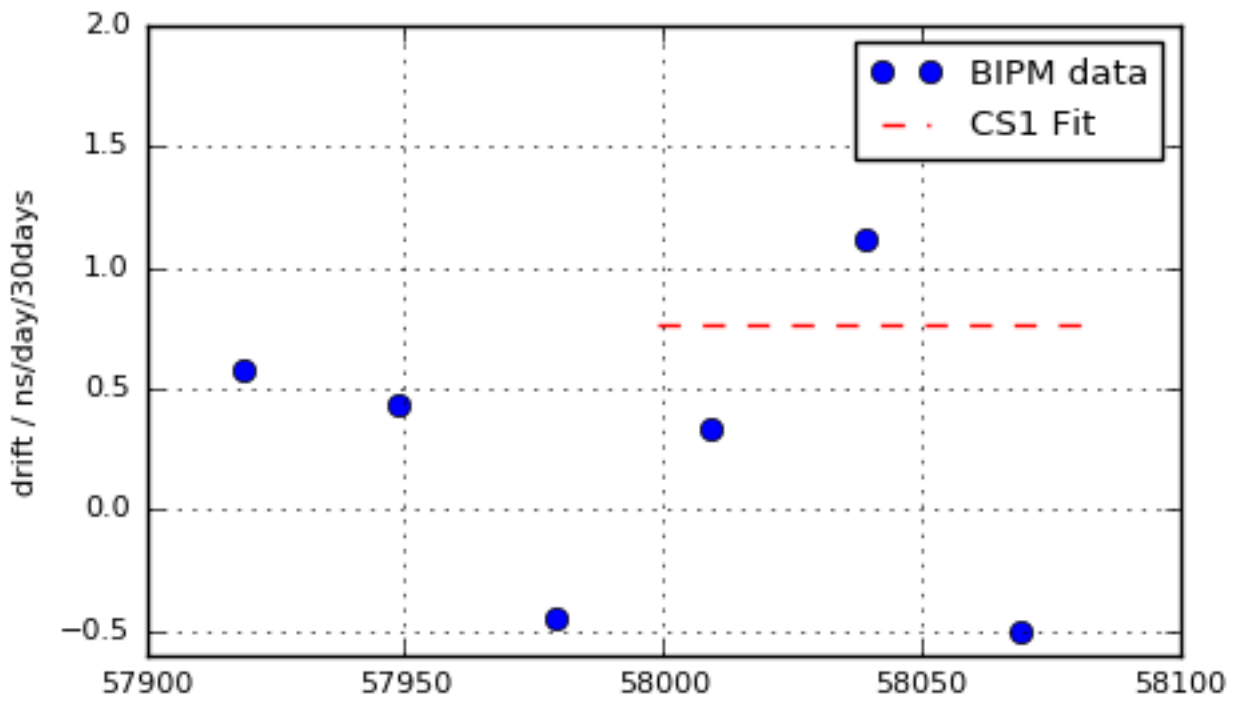
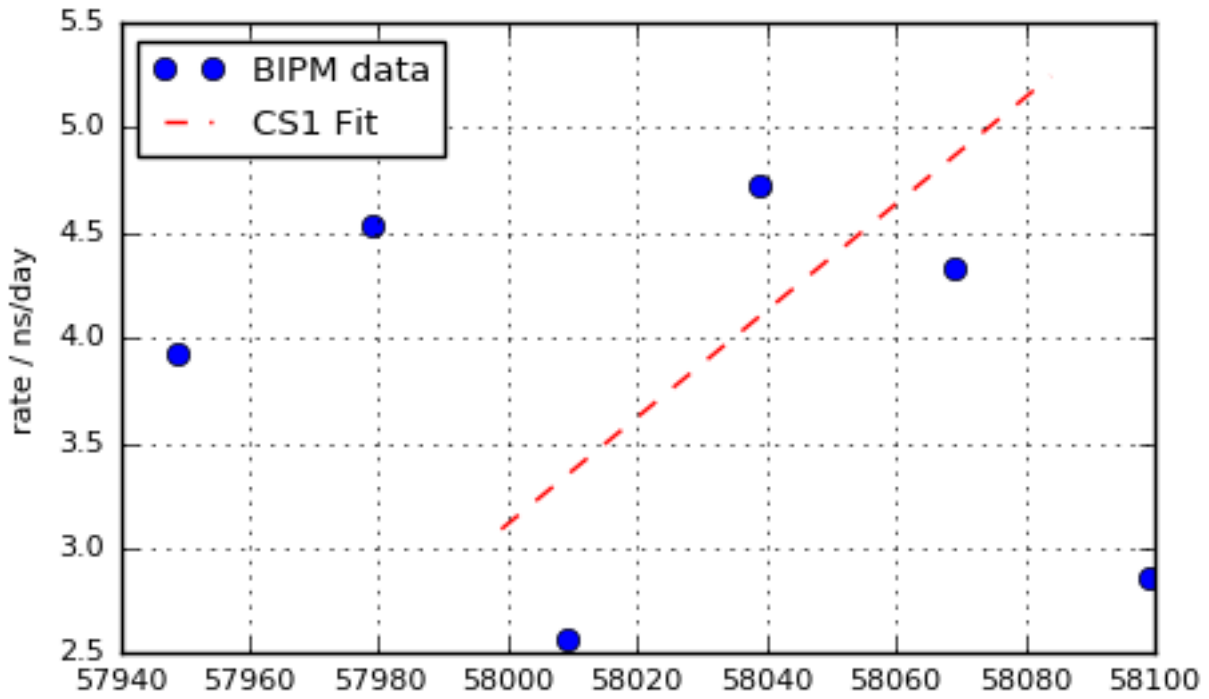
UTC - CS1 Fit

UTC-CS1 (2018-01-11 / 58129)
 $x \text{ (ns)} = 7369.218 + 5.245 * d + 0.0127 * d * d$
 $y = -6.07079e-14 + -2.93347e-16 * d$
 $d = (\text{mjd} - \text{mjd0}) \text{ with mjd0} = 58084$



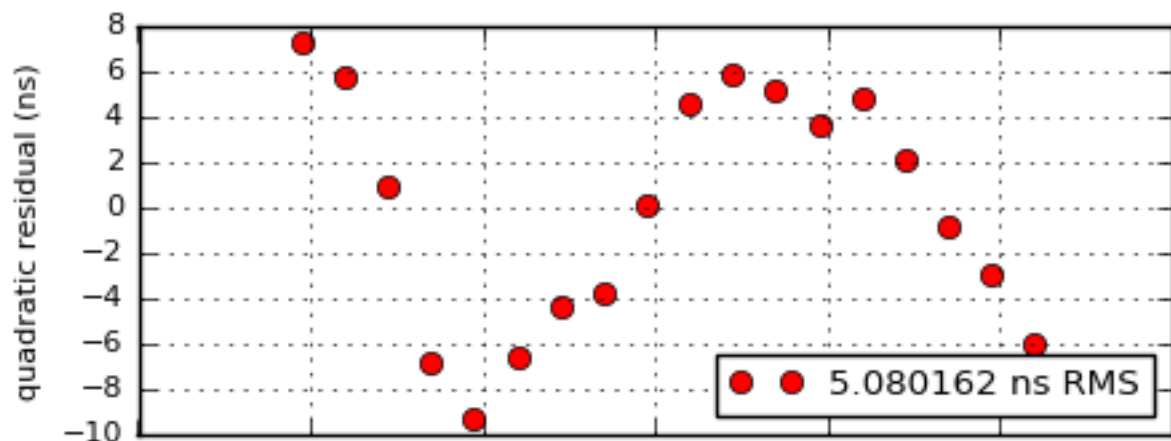
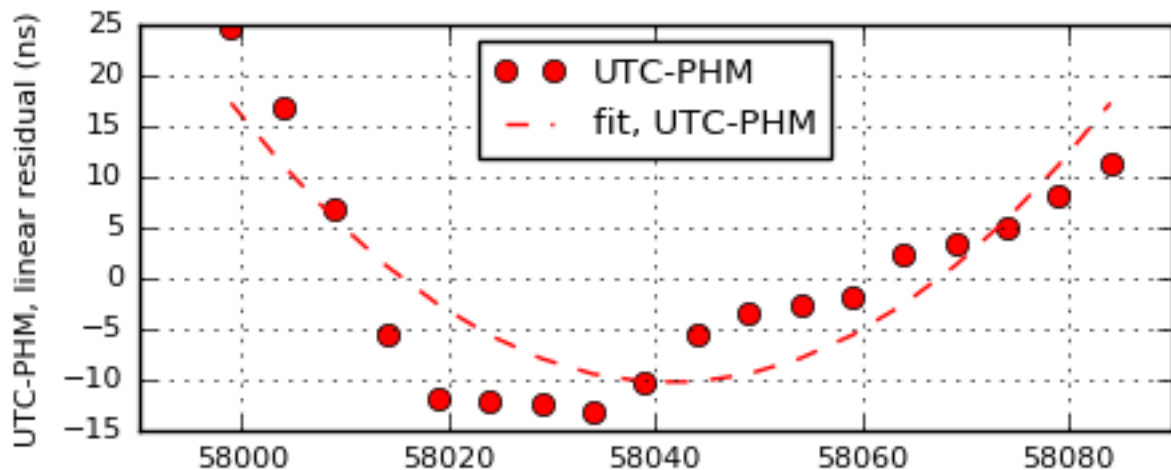
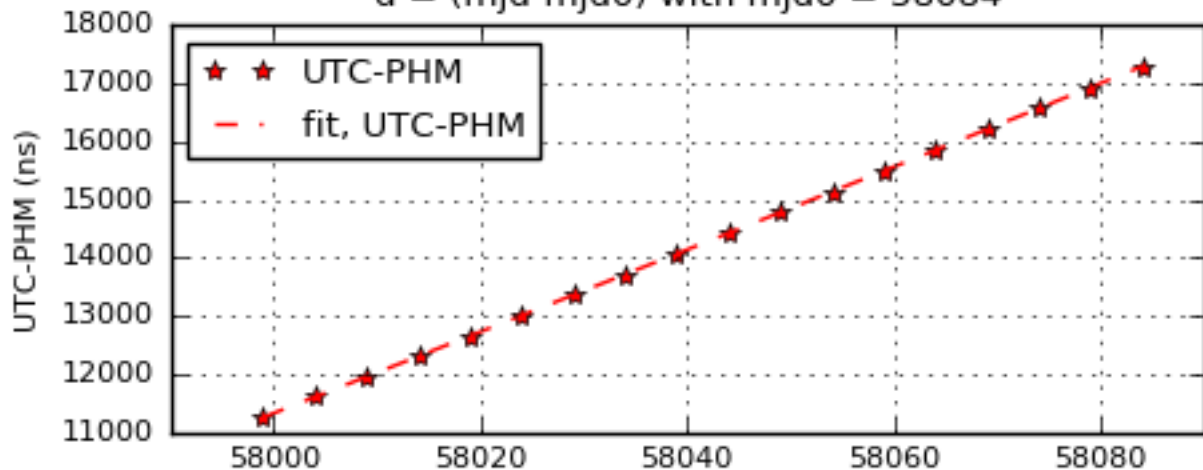
2017-08-15 2017-09-04 2017-09-24 2017-10-14 2017-11-03 2017-11-23 2017-12-13

CS1 Rate and Drift



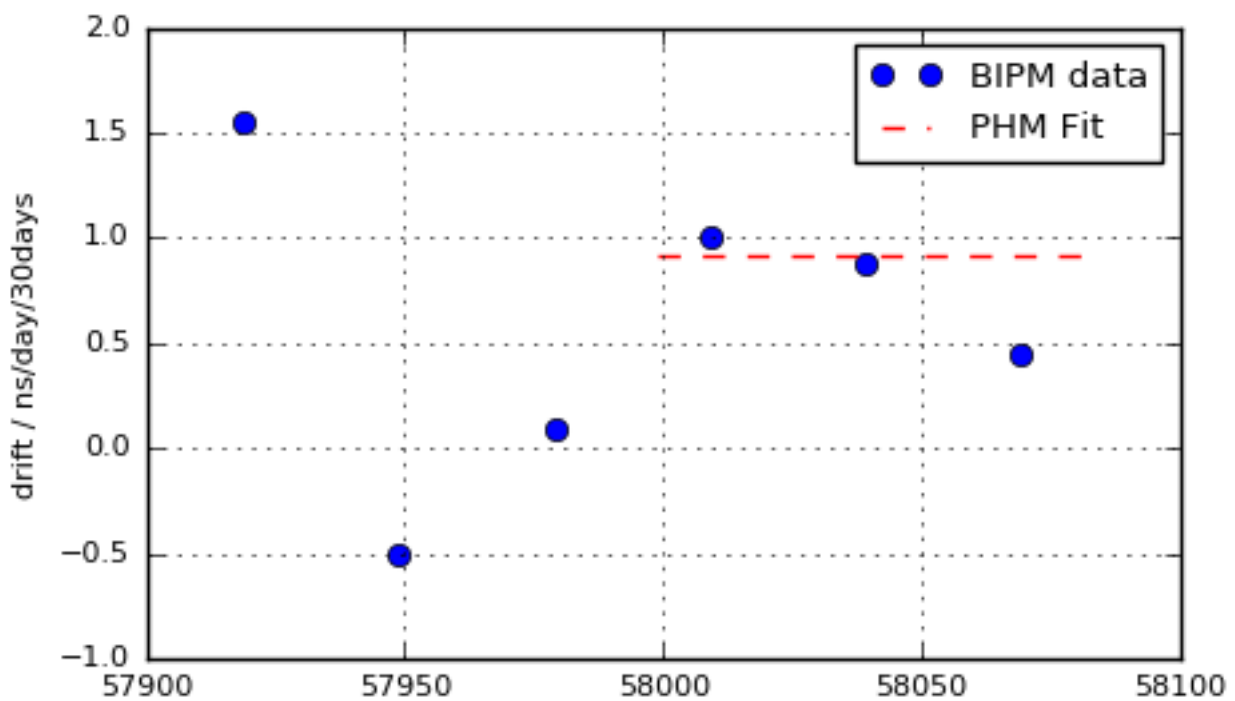
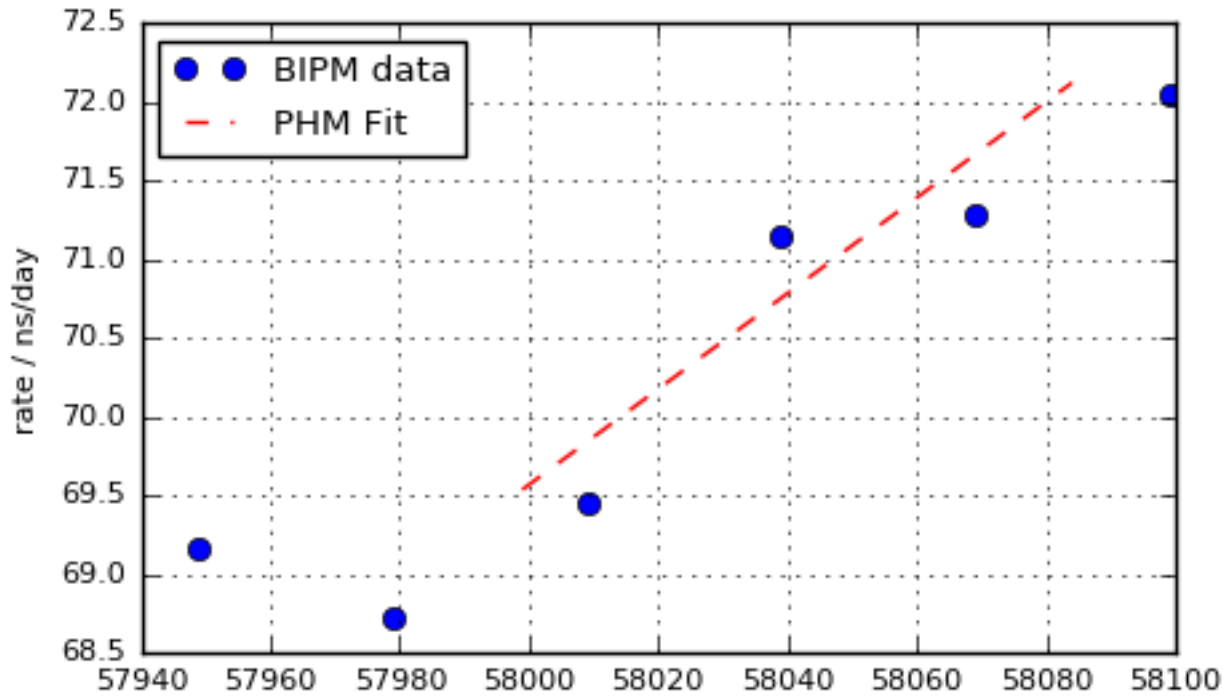
UTC - PHM Fit

UTC-PHM (2018-01-11 / 58129)
 $x \text{ (ns)} = 17283.111 + 72.118 * d + 0.0152 * d * d$
 $y = -8.34701e-13 + -3.51277e-16 * d$
 $d = (\text{mjd} - \text{mjd0}) \text{ with mjd0} = 58084$



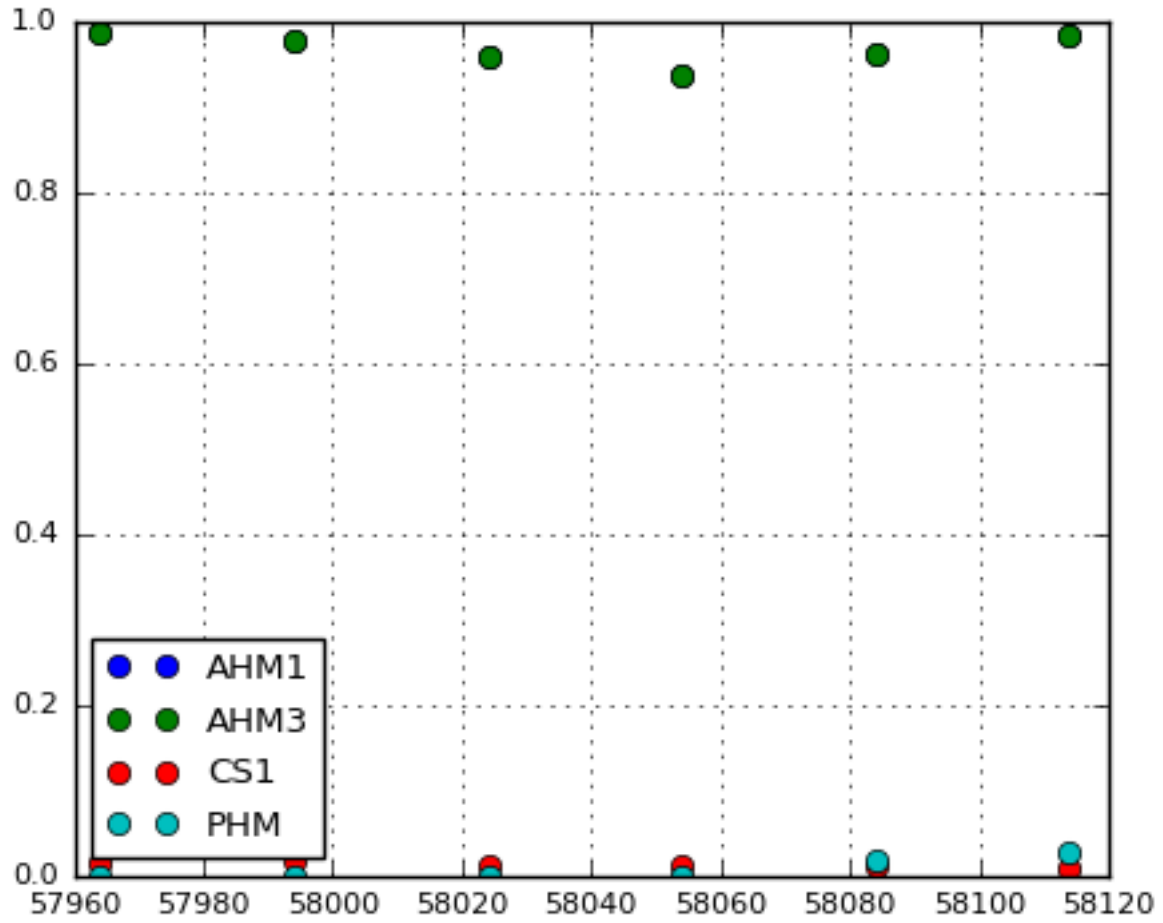
2017-08-15 2017-09-04 2017-09-24 2017-10-14 2017-11-03 2017-11-23 2017-12-13

PHM Rate and Drift



Clock Weights

RELATIVE WEIGHTS (IN PERCENT) OF THE CLOCKS FOR INTERVALS OF ONE MONTH ENDING AT THE GIVEN DATES



End of Bulletin.