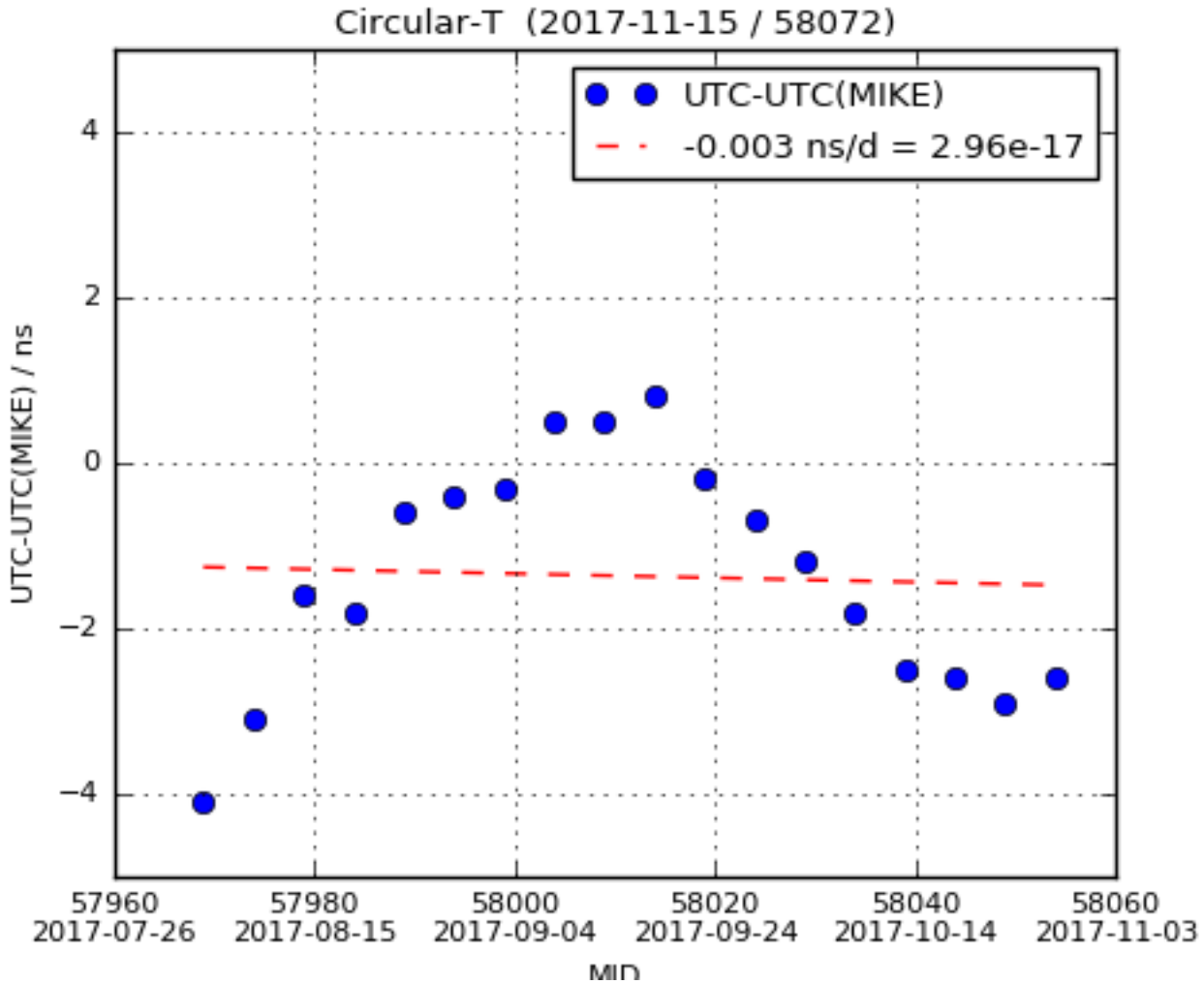
UTC(MIKE) Atomic Bulletin 2017-11

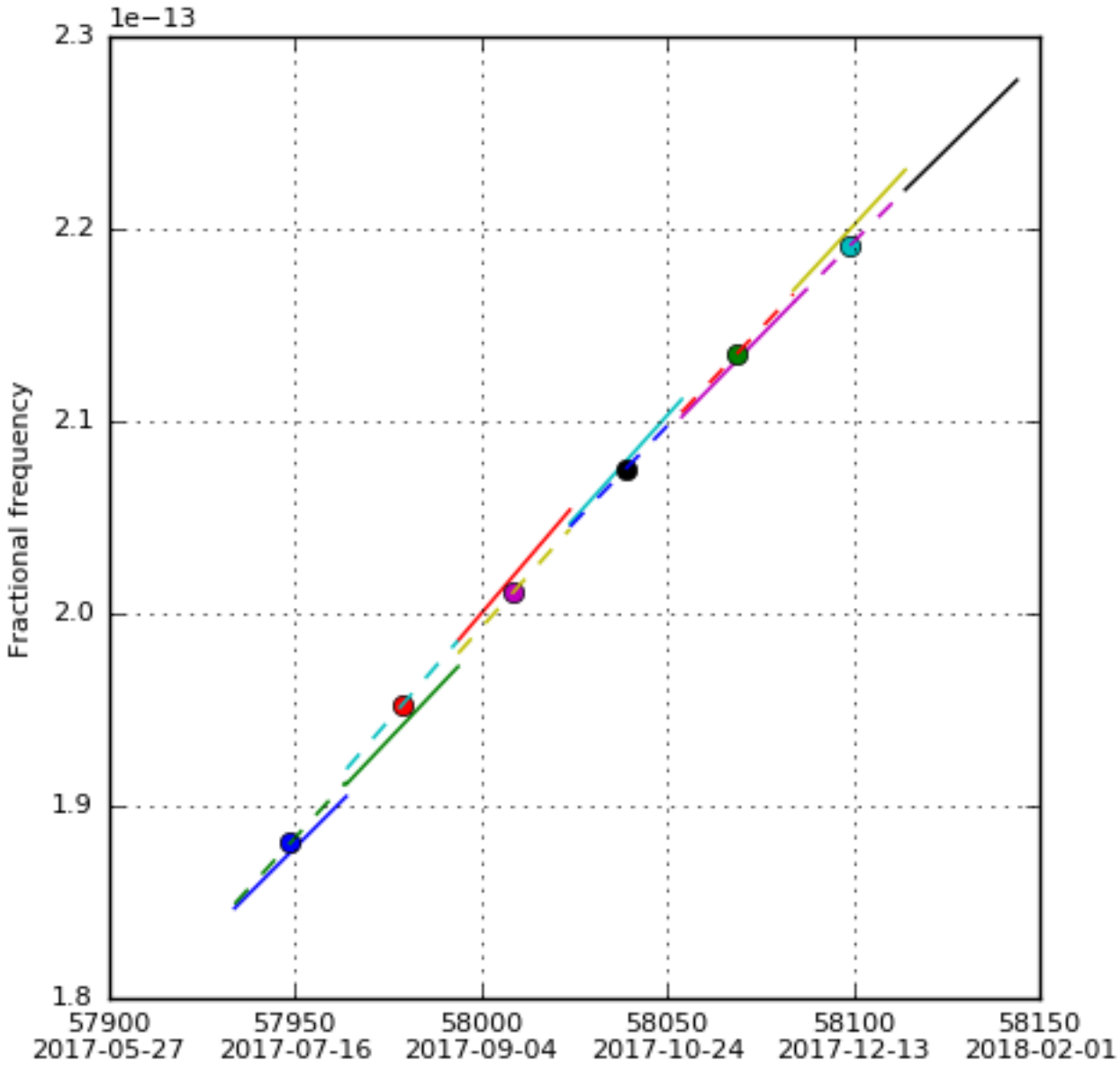
VTT MIKES Metrology monthly Time & Frequency bulletin.
Comments and questions to: time "at" vtt.fi
Date of publication: 2017-11-15
Circular-T issues used for analysis: 356, 357, 358,
First day of analysis interval: 2017-08-04 (57969)
Last day of analysis interval: 2017-10-28 (58054)
ClockData for analysis: CDMI__17.08_, CDMI__17.09_, CDMI__17.10_,

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



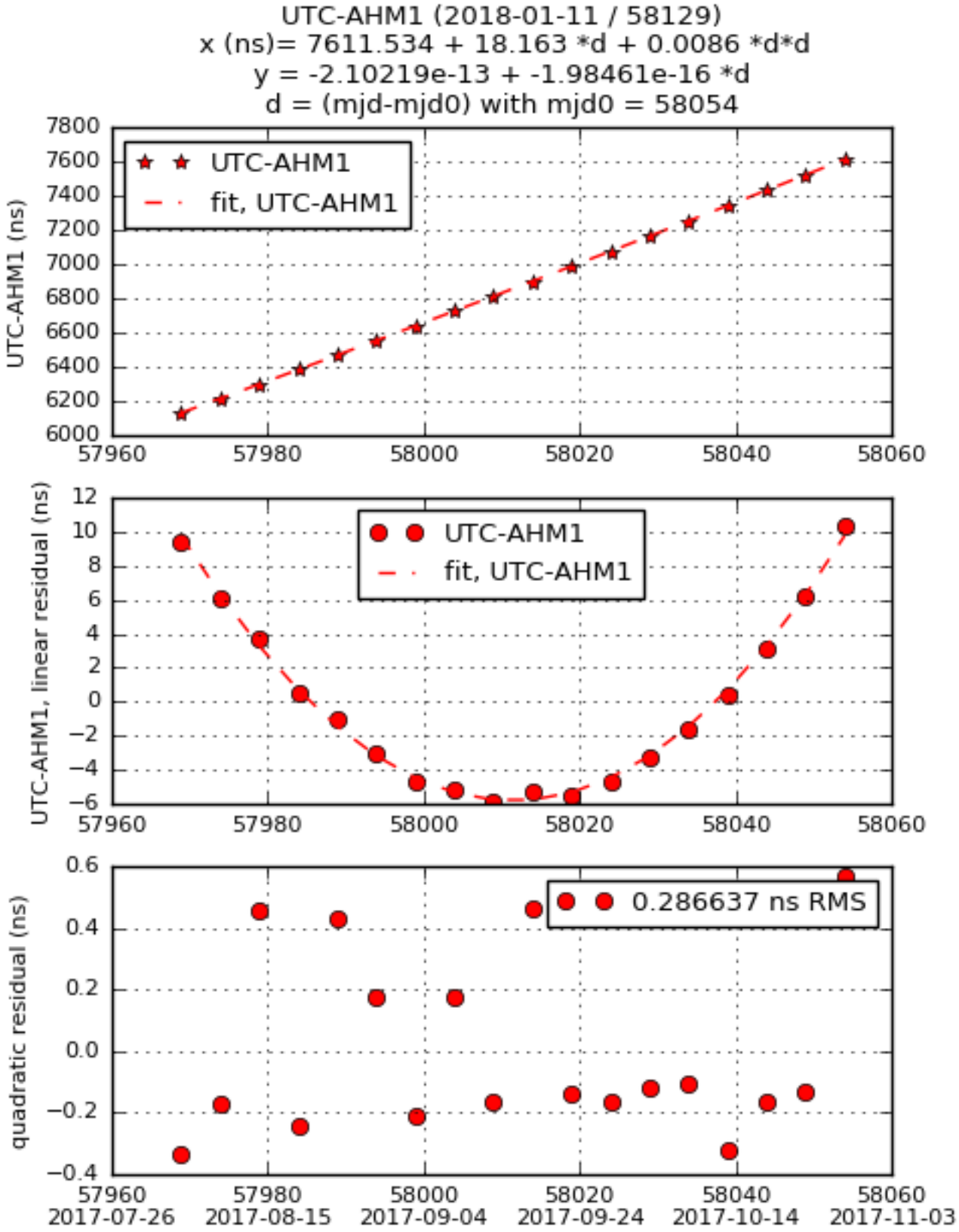
UTC-UTC(MIKE) is available on 5 day intervals on MJD dates ending with 4 or 9. Values are published monthly by the BIPM in Circular-T.

UTC(MIKE) frequency steering parameters

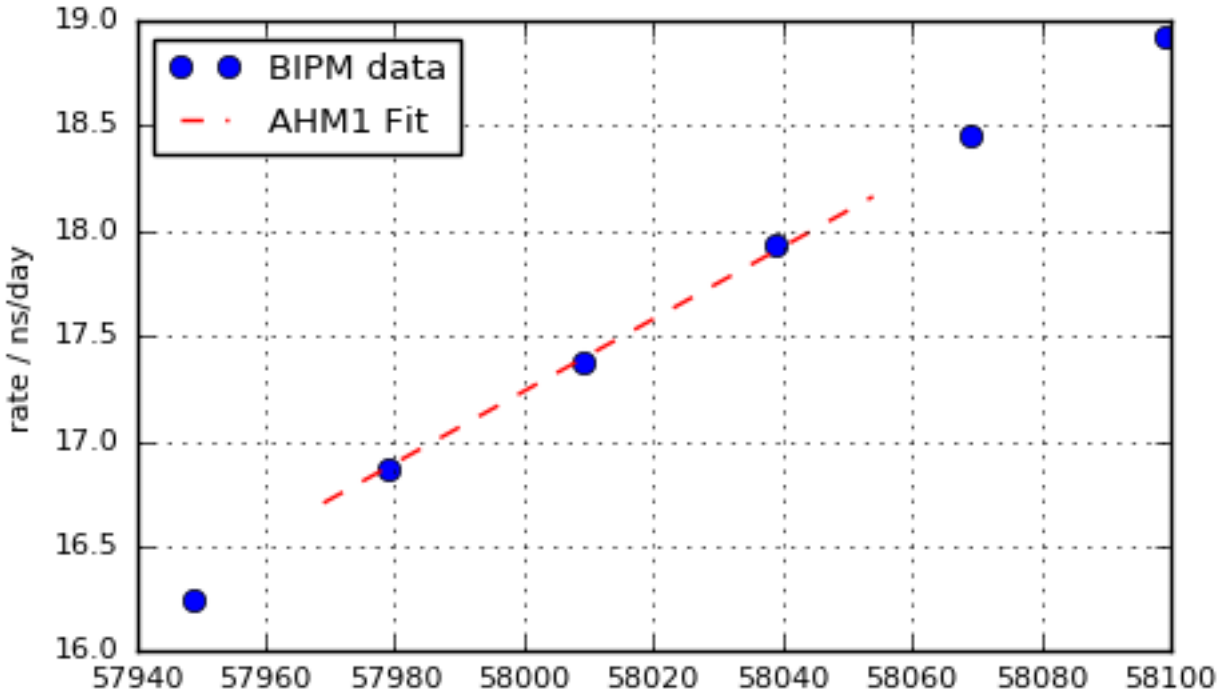


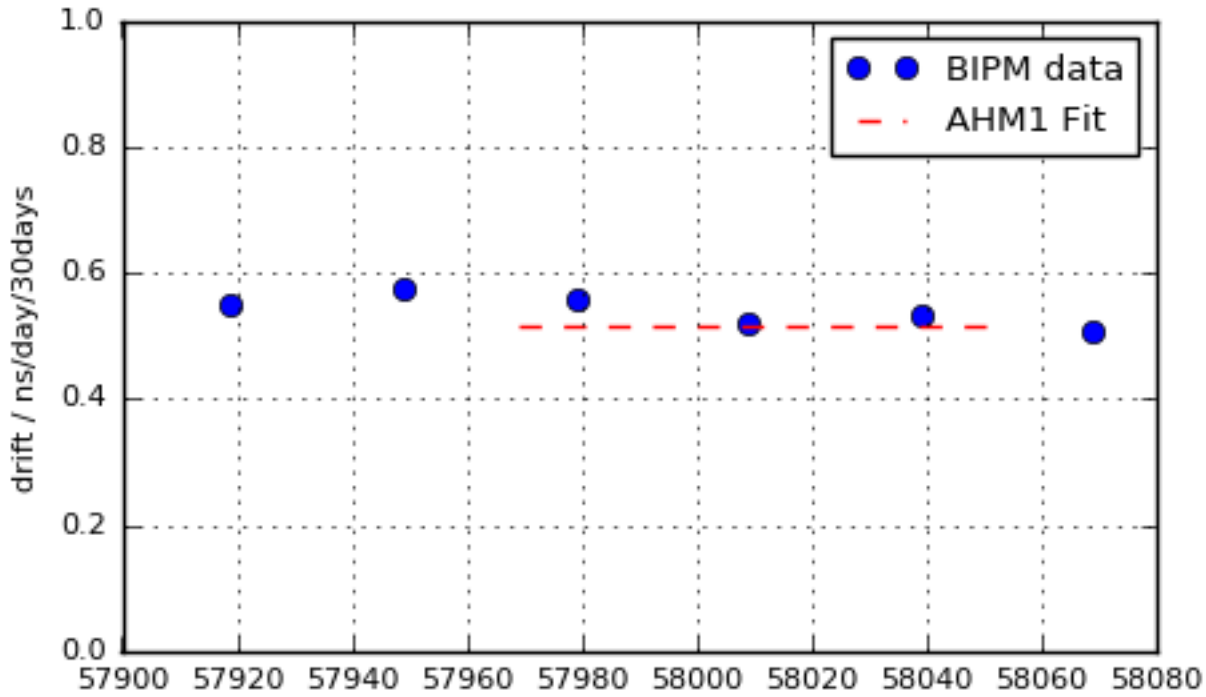
UTC(MIKE) Master Clock is AHM1 since 2017-07-15.
Solid lines indicate UTC(MIKE) steering parameters derived from UTC-ClockData fits.
Symbols and dashed lines indicate MasterClock rates and drifts as published by BIPM.

UTC - AHM1 Fit

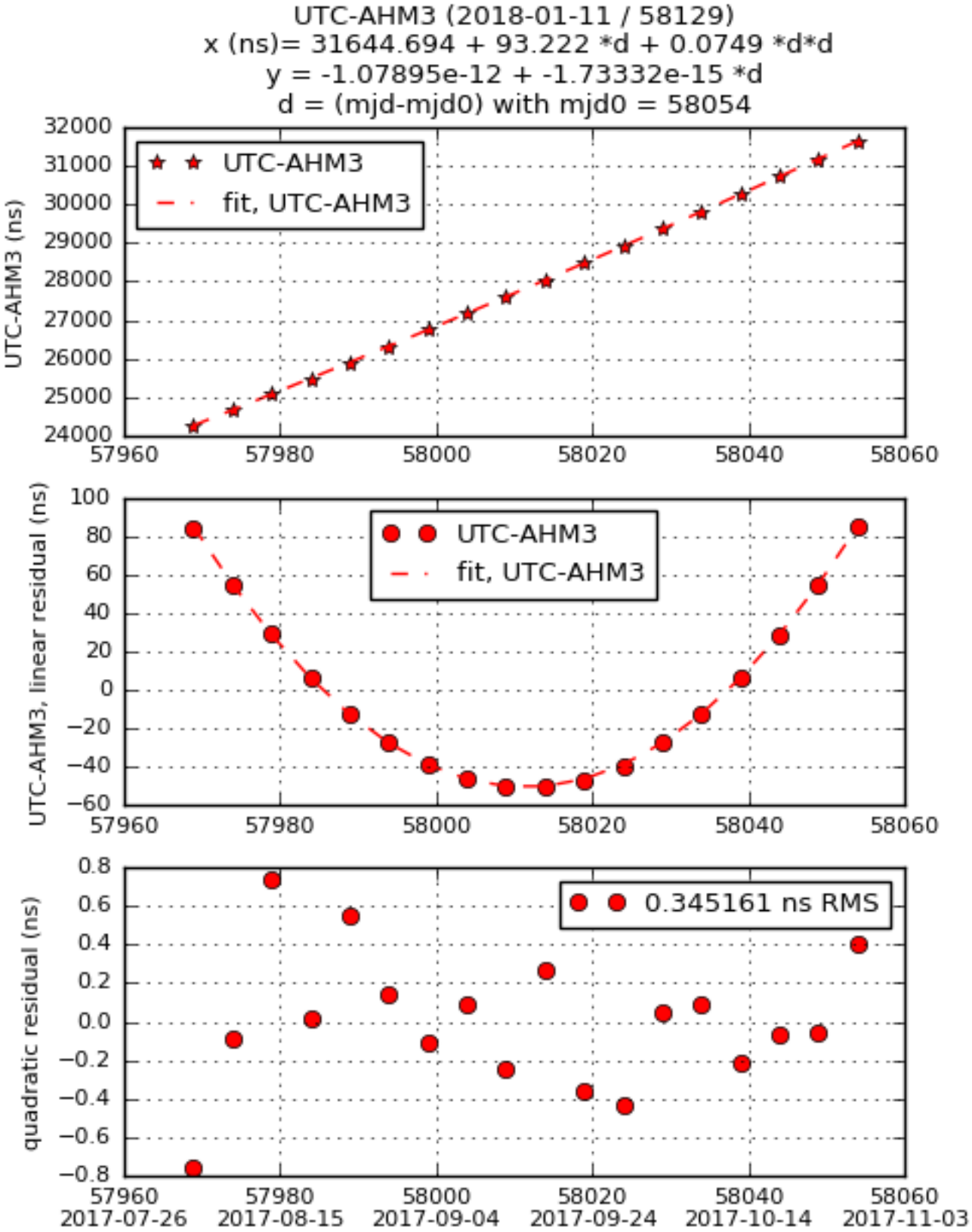

UTC-AHM1 (2018-01-11 / 58129)
x (ns)= 7611.534 + 18.163 *d + 0.0086 *d*d
y = -2.10219e-13 + -1.98461e-16 *d
d = (mjd-mjd0) with mjd0 = 58054
UTC-AHM1
fit, UTC-AHM1
UTC-AHM1 (ns)
UTC-AHM1, linear residual (ns)
quadratic residual (ns)
0.286637 ns RMS
2017-07-26
2017-08-15
2017-09-04
2017-09-24
2017-10-14
2017-11-03

AHM1 Rate and Drift

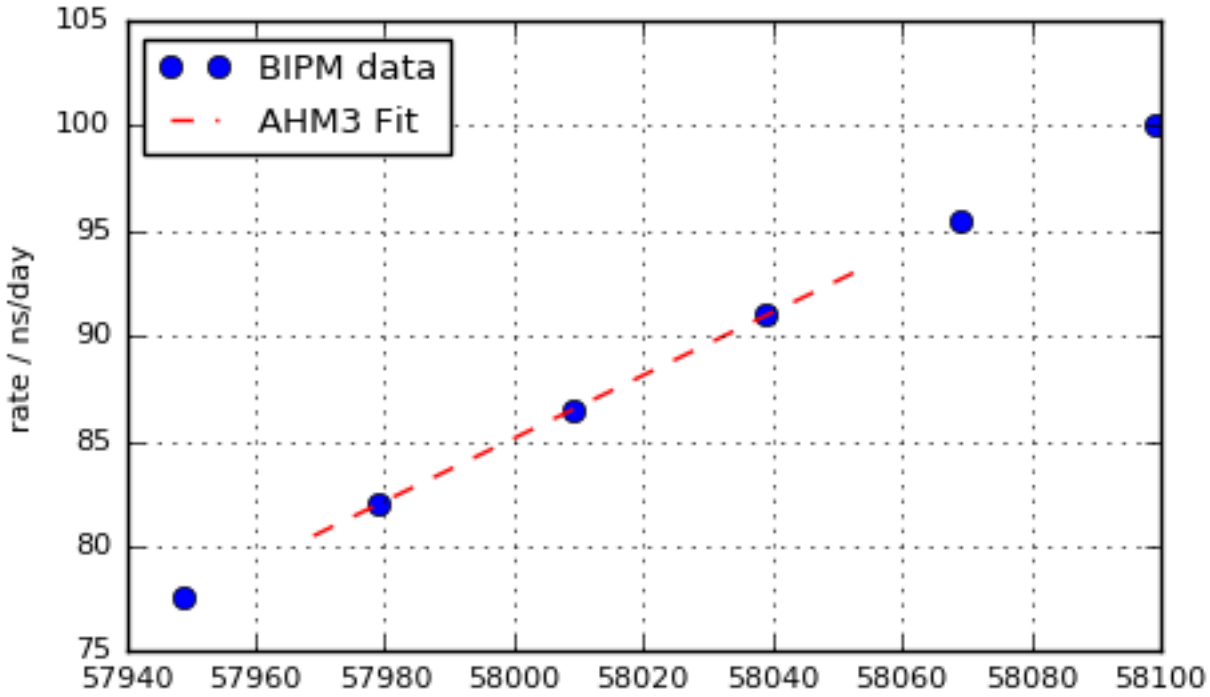


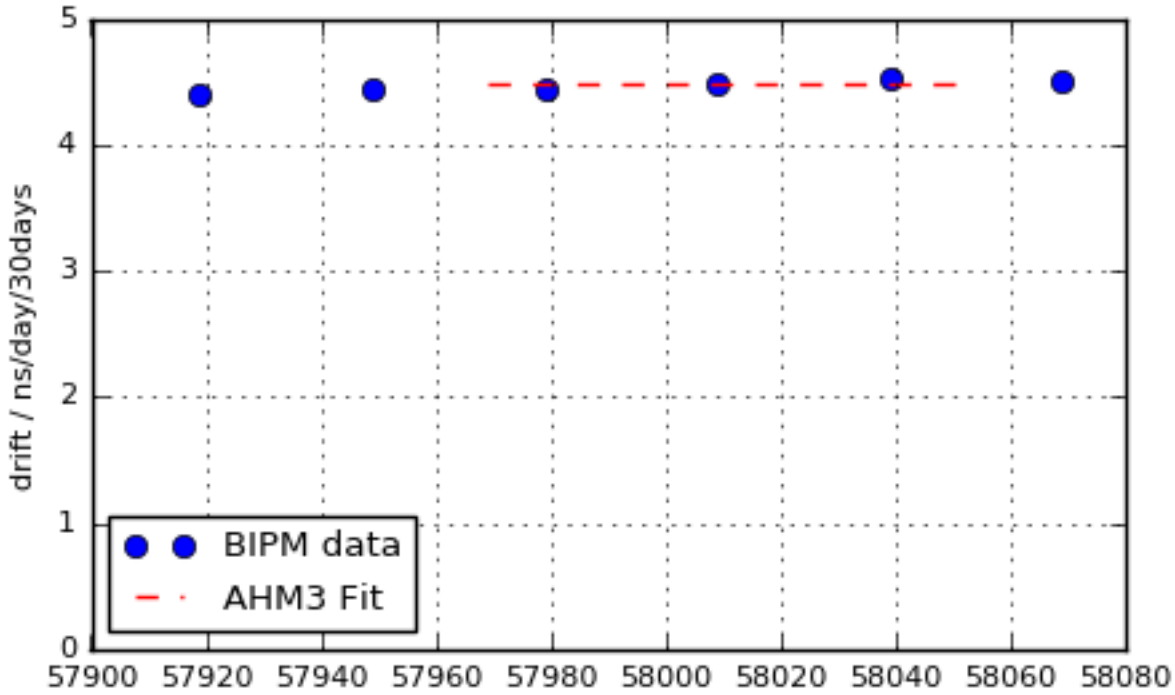


UTC - AHM3 Fit

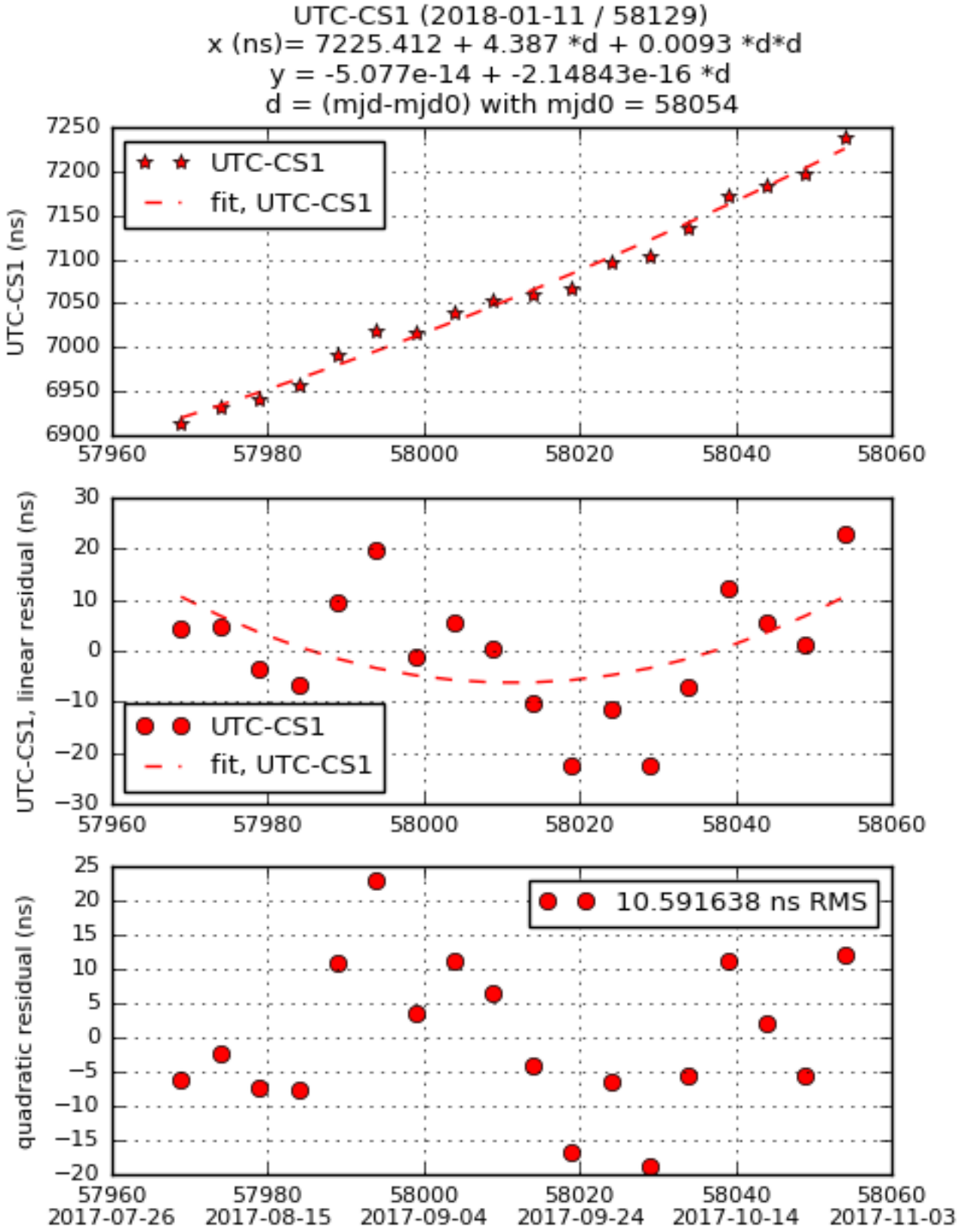

UTC-AHM3 (2018-01-11 / 58129)
x (ns)= 31644.694 + 93.222 *d + 0.0749 *d*d
y = -1.07895e-12 + -1.73332e-15 *d
d = (mjd-mjd0) with mjd0 = 58054
UTC-AHM3
fit, UTC-AHM3
UTC-AHM3 (ns)
UTC-AHM3, linear residual (ns)
0.345161 ns RMS
quadratic residual (ns)
2017-07-26
2017-08-15
2017-09-04
2017-09-24
2017-10-14
2017-11-03

AHM3 Rate and Drift

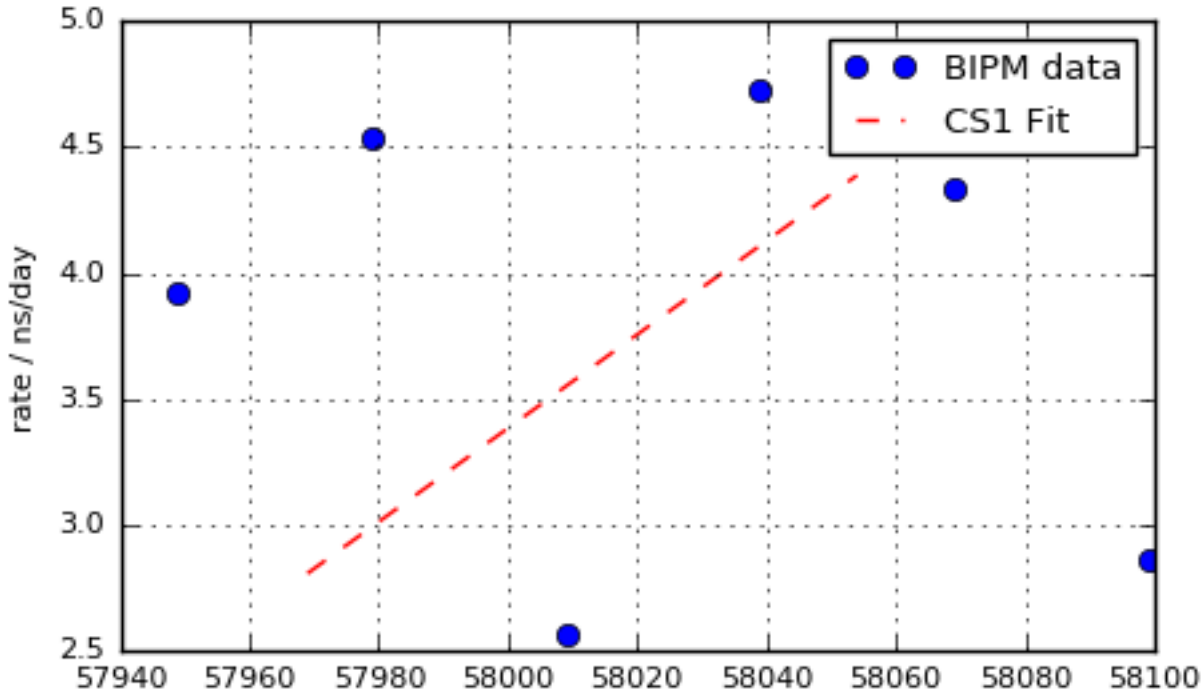


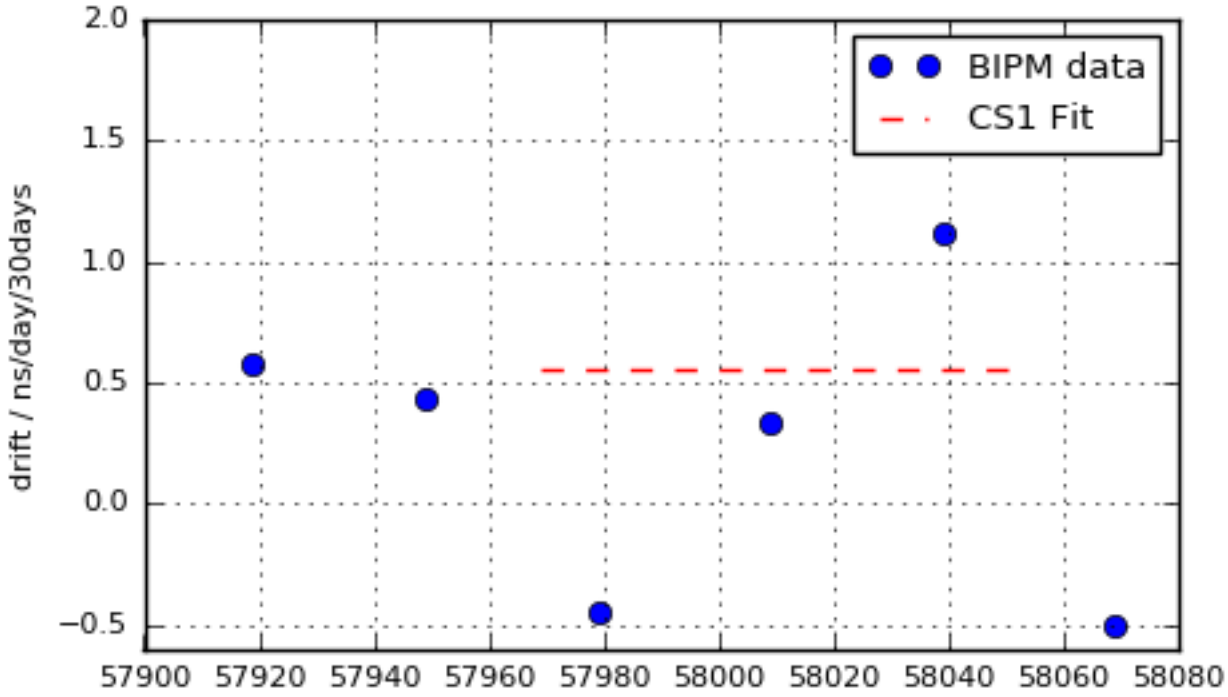


UTC - CS1 Fit

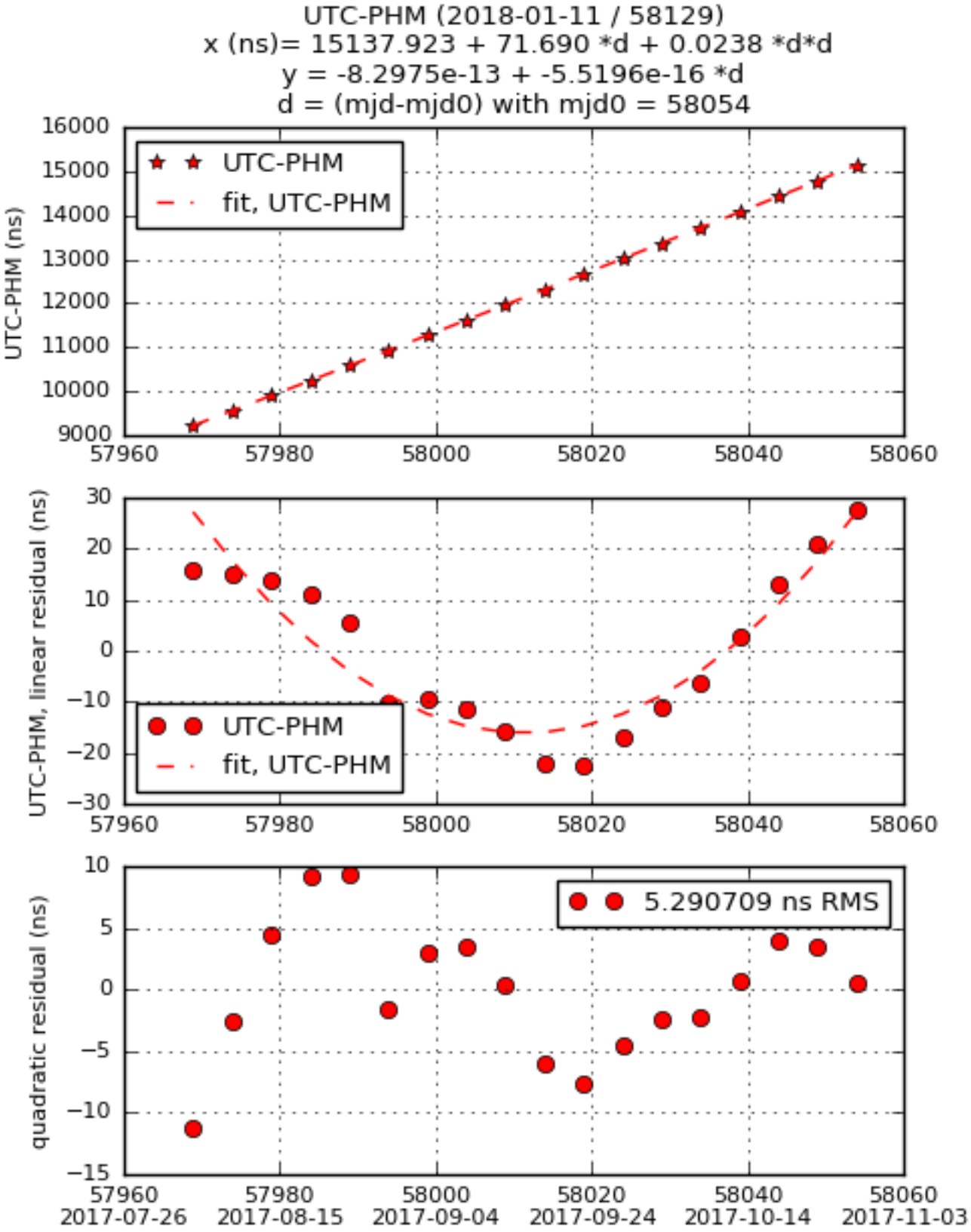

UTC-CS1 (2018-01-11 / 58129)
x (ns)= 7225.412 + 4.387 *d + 0.0093 *d*d
y = -5.077e-14 + -2.14843e-16 *d
d = (mjd-mjd0) with mjd0 = 58054
UTC-CS1 (ns)
UTC-CS1
fit, UTC-CS1
UTC-CS1, linear residual (ns)
quadratic residual (ns)
10.591638 ns RMS
57960
57980
58000
58020
58040
58060
2017-07-26
2017-08-15
2017-09-04
2017-09-24
2017-10-14
2017-11-03

CS1 Rate and Drift

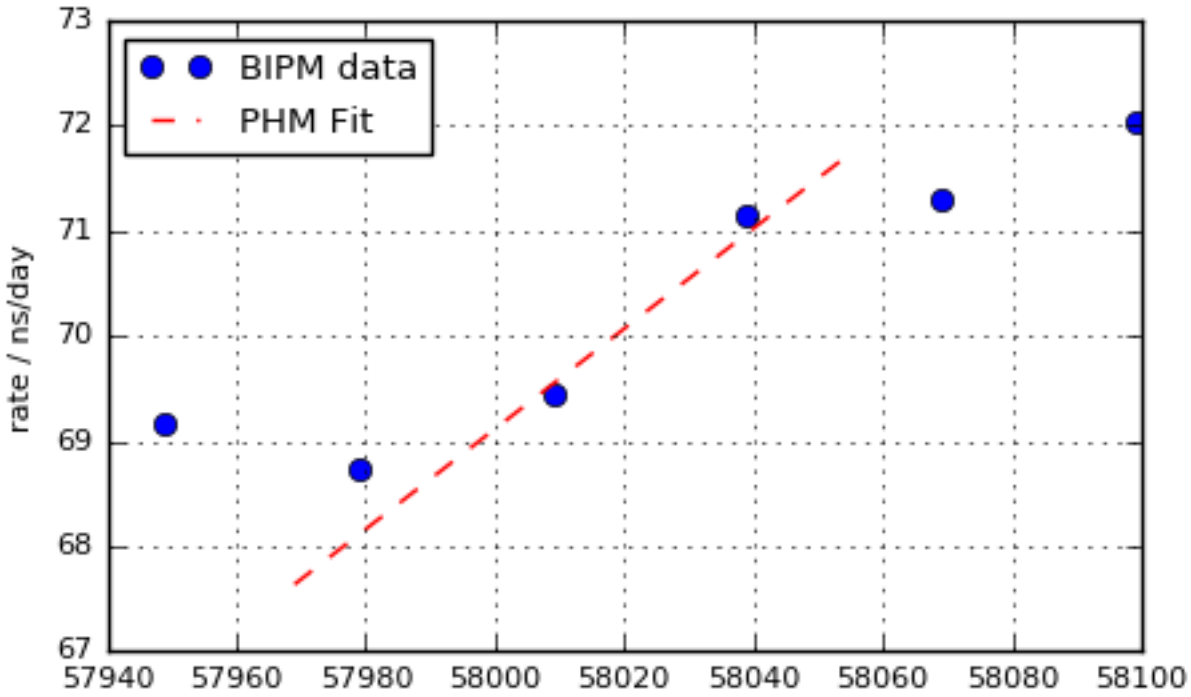


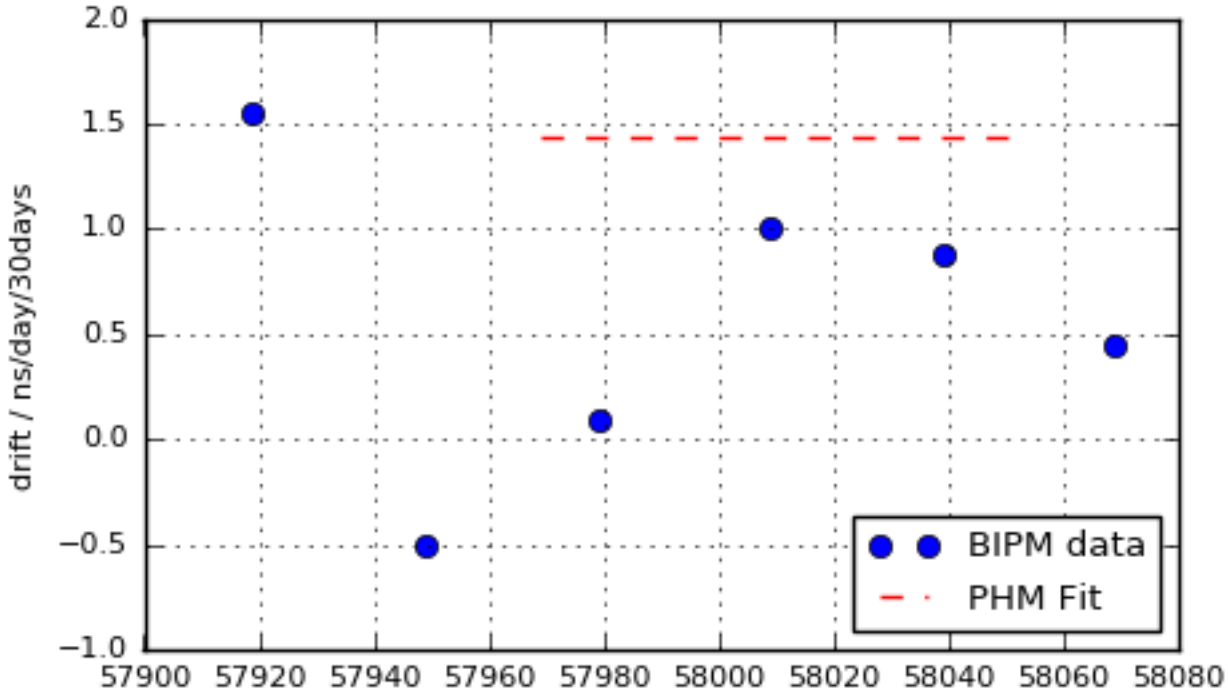


UTC - PHM Fit


UTC-PHM (2018-01-11 / 58129)
x (ns)= 15137.923 + 71.690 *d + 0.0238 *d*d
y = -8.2975e-13 + -5.5196e-16 *d
d = (mjd-mjd0) with mjd0 = 58054
UTC-PHM
fit, UTC-PHM
UTC-PHM (ns)
UTC-PHM, linear residual (ns)
quadratic residual (ns)
5.290709 ns RMS
57960
57980
58000
58020
58040
58060
2017-07-26
2017-08-15
2017-09-04
2017-09-24
2017-10-14
2017-11-03

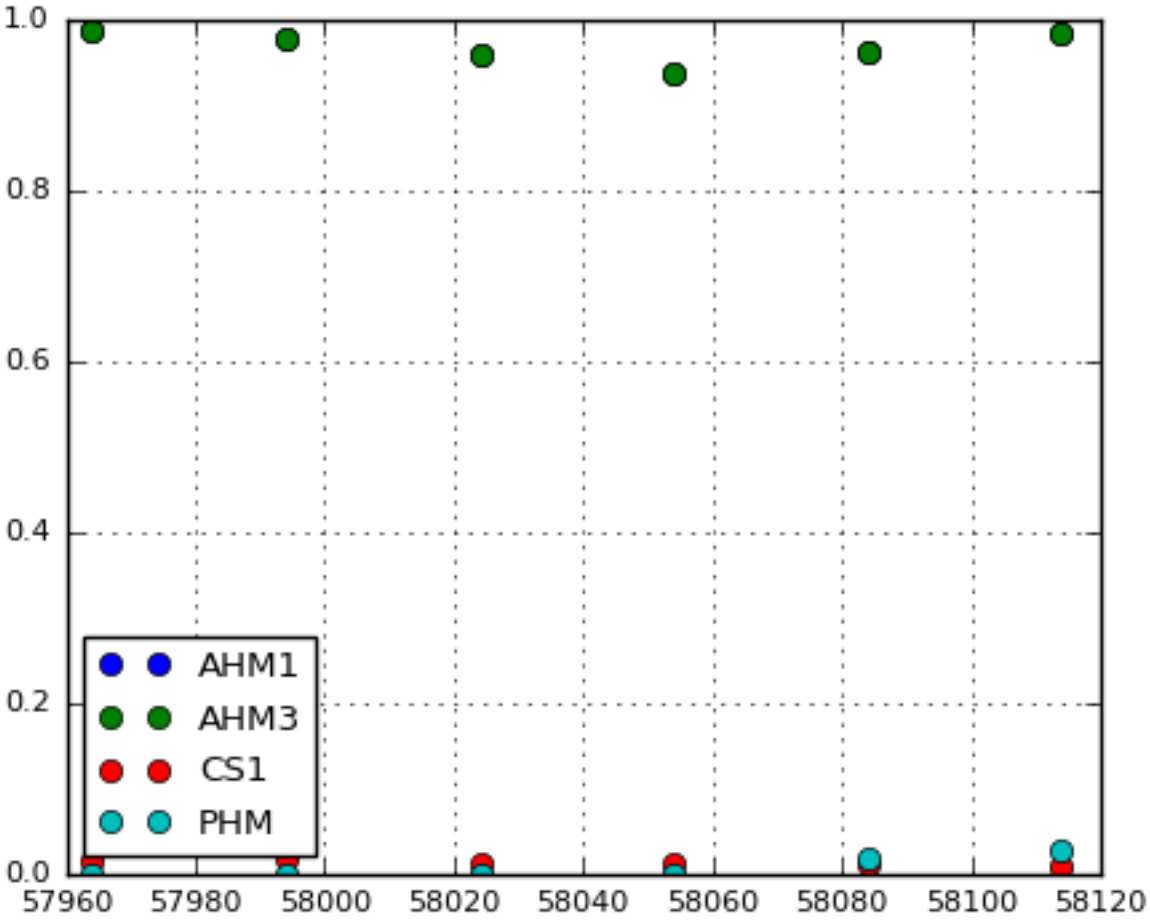
PHM Rate and Drift





Clock Weights

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



End of Bulletin.