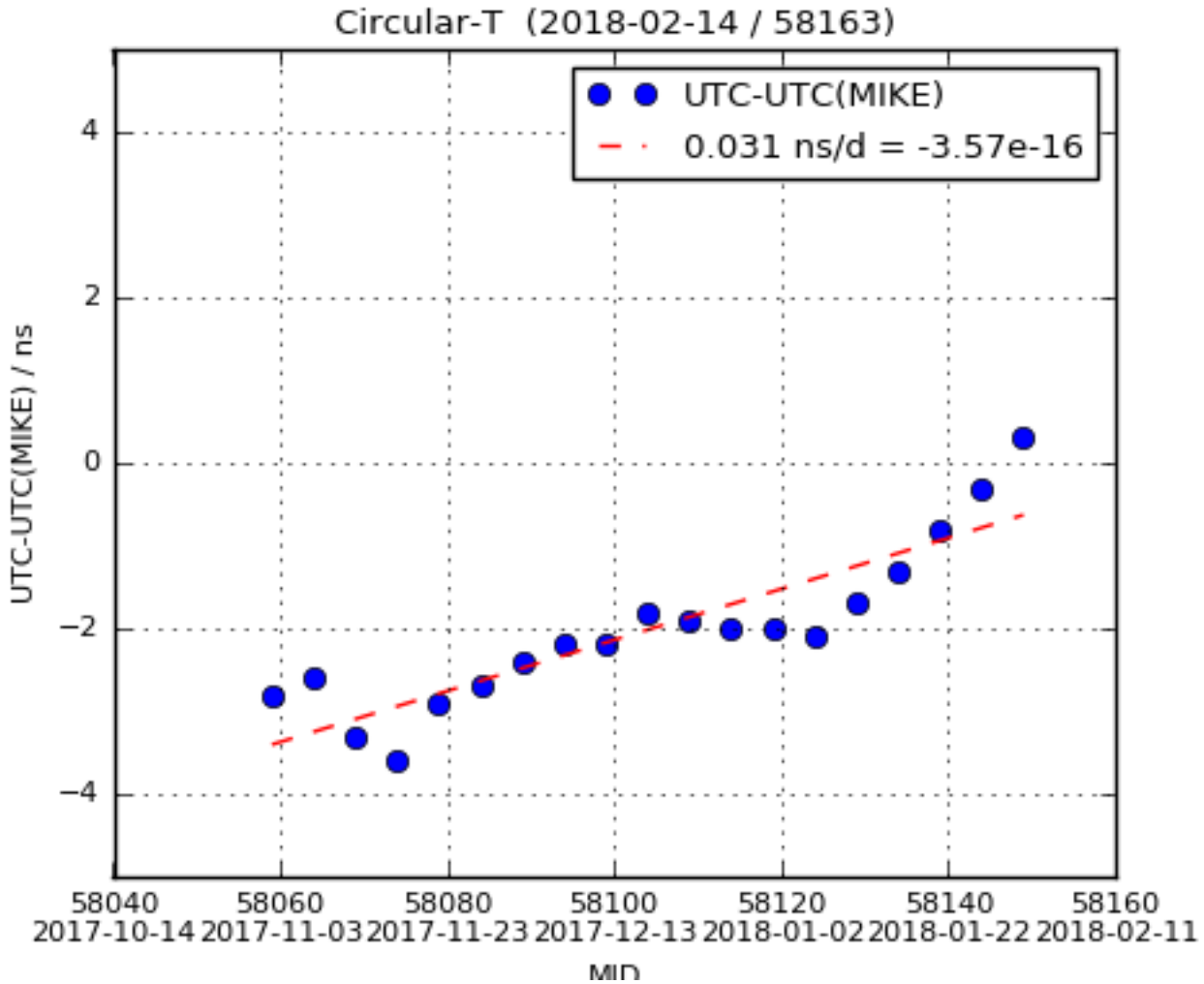
UTC(MIKE) Atomic Bulletin 2018-02

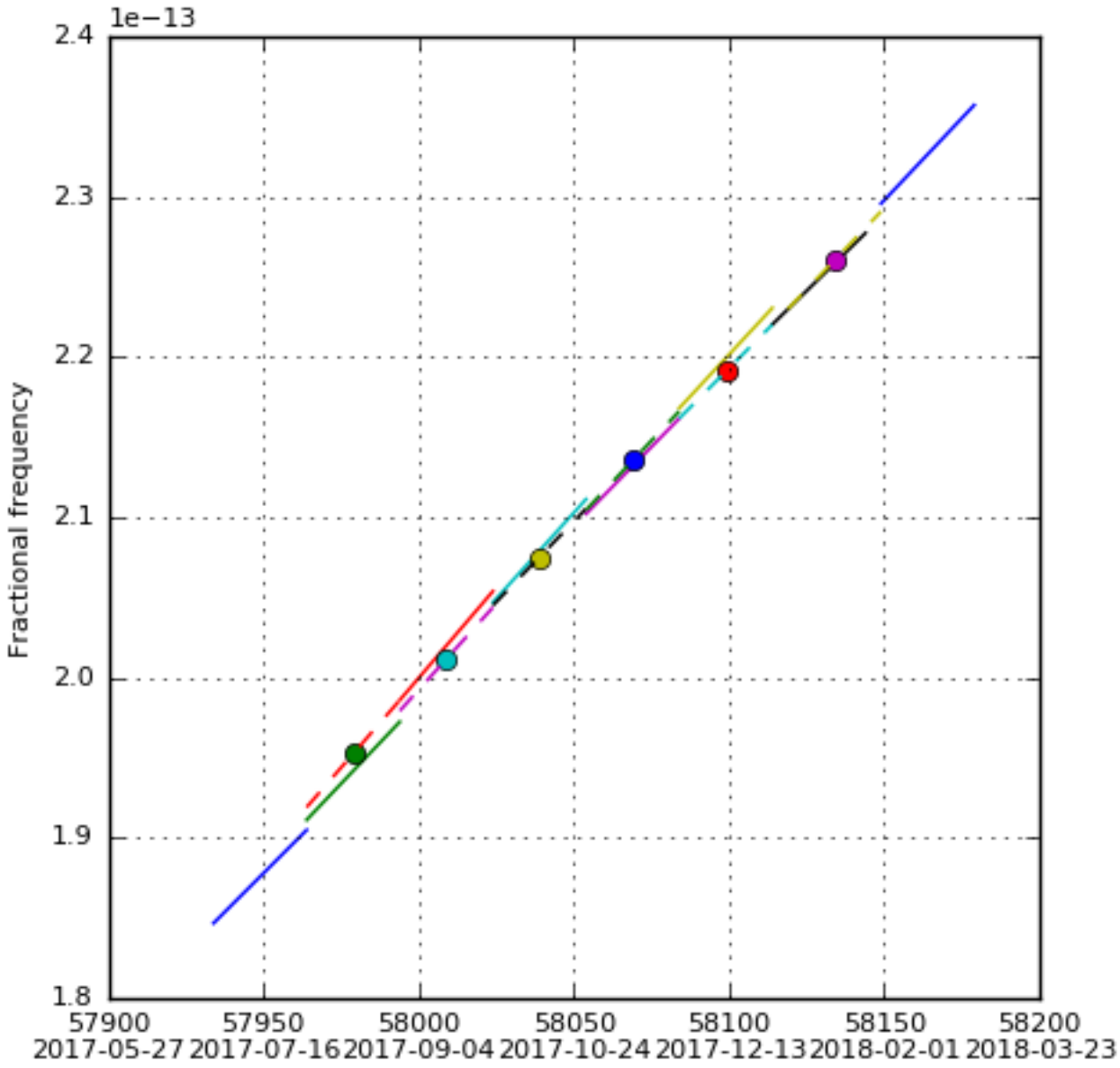
VTT MIKES Metrology monthly Time & Frequency bulletin.
Comments and questions to: time "at" vtt.fi
Date of publication: 2018-02-14
Circular-T issues used for analysis: 359, 360, 361,
First day of analysis interval: 2017-11-02 (58059)
Last day of analysis interval: 2018-01-31 (58149)
ClockData for analysis: CDMI__17.11_, CDMI__17.12_, CDMI__18.01_,

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



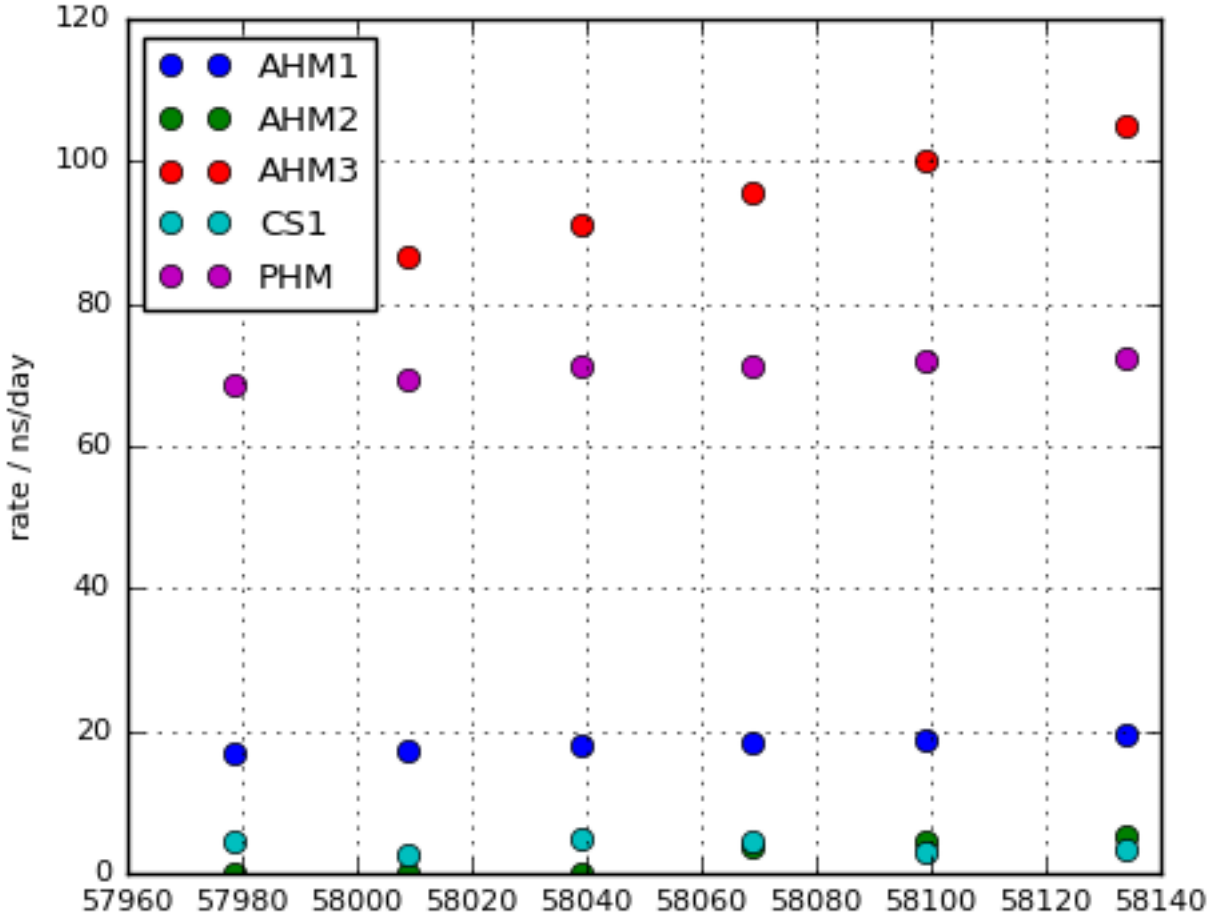
UTC-UTC(MIKE) is available on 5 day intervals on MJD dates ending with 4 or 9. Values are published monthly by the BIPM in Circular-T.

UTC(MIKE) frequency steering parameters

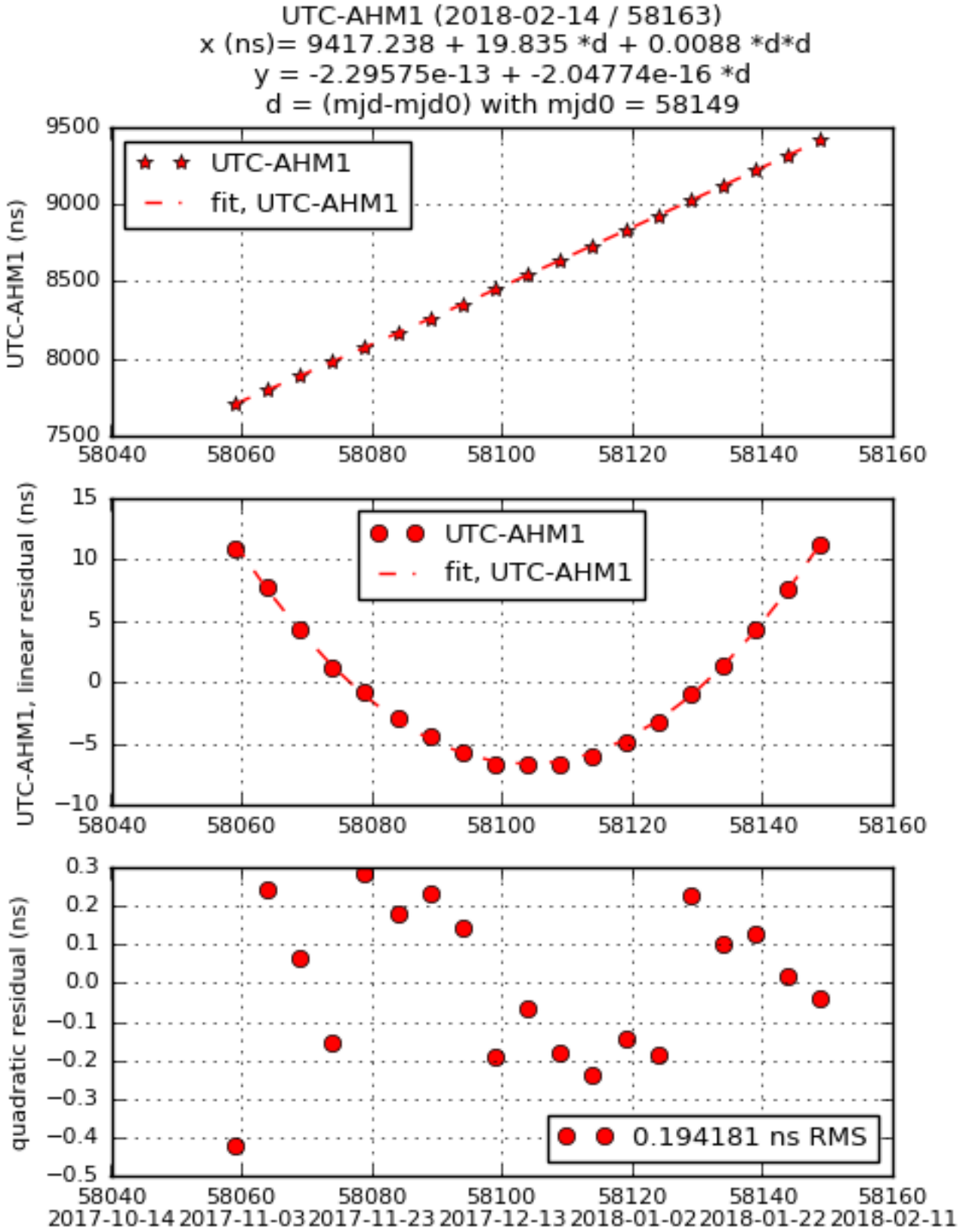


UTC(MIKE) Master Clock is AHM1 since 2017-07-15.
Solid lines indicate UTC(MIKE) steering parameters derived from UTC-ClockData fits.
Symbols and dashed lines indicate MasterClock rates and drifts as published by BIPM.
The latest steering parameters are:
y = 2.29575e-13 + 2.04774e-16 *d + y_steer
with d = (mjd-mjd) and mjd0 = 58149
y_steer = 0 since 58150

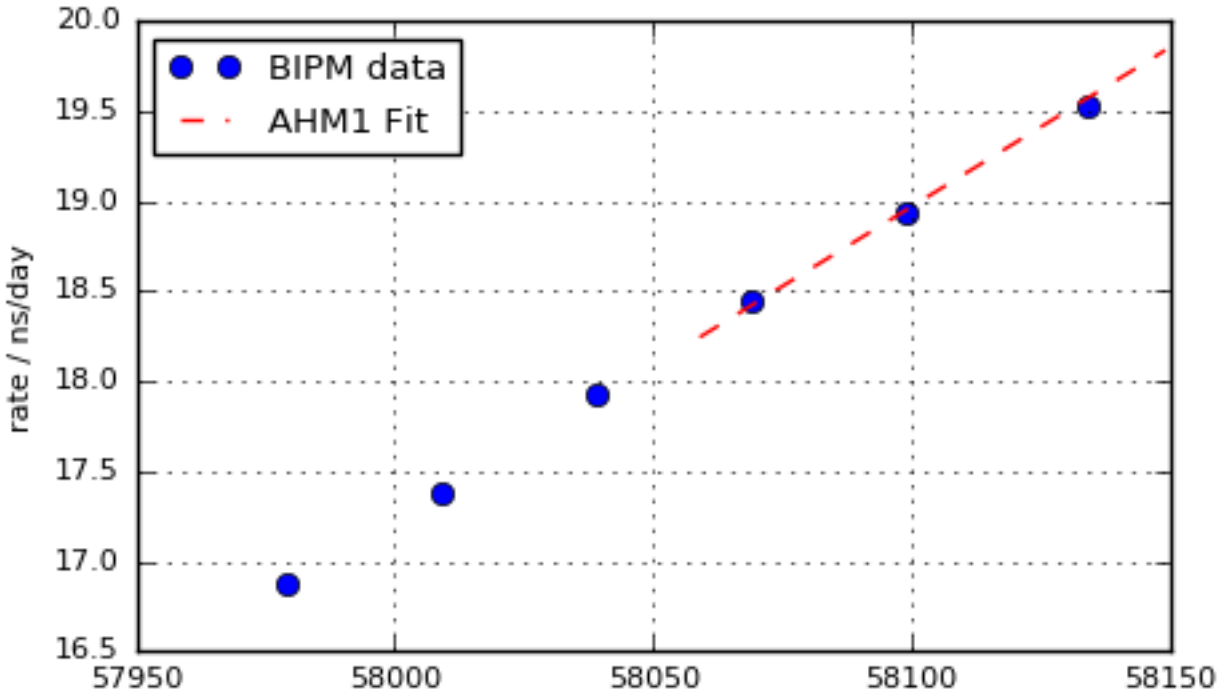
Clock Rates - Summary

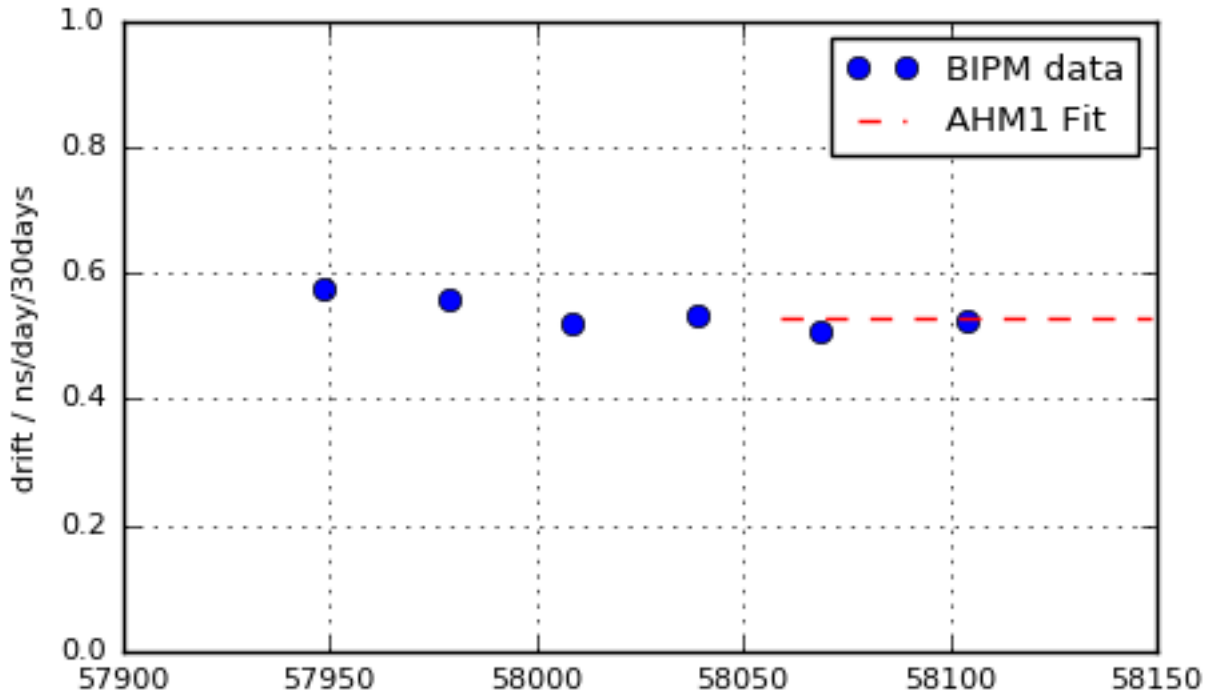


UTC - AHM1 Fit

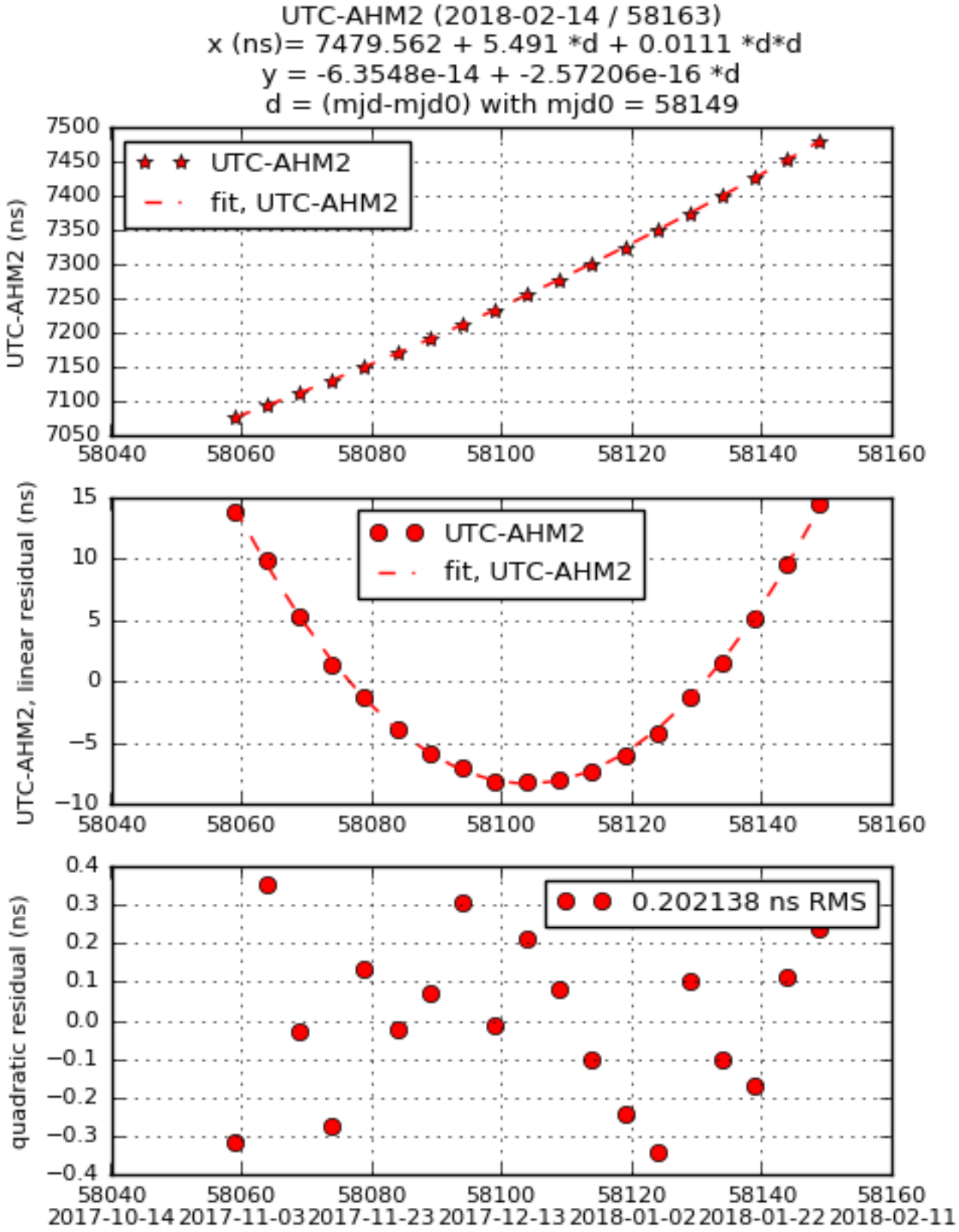

UTC-AHM1 (2018-02-14 / 58163)
x (ns)= 9417.238 + 19.835 *d + 0.0088 *d*d
y = -2.29575e-13 + -2.04774e-16 *d
d = (mjd-mjd0) with mjd0 = 58149
UTC-AHM1
fit, UTC-AHM1
UTC-AHM1 (ns)
UTC-AHM1, linear residual (ns)
quadratic residual (ns)
0.194181 ns RMS
2017-10-14
2017-11-03
2017-11-23
2017-12-13
2018-01-02
2018-01-22
2018-02-11

AHM1 Rate and Drift

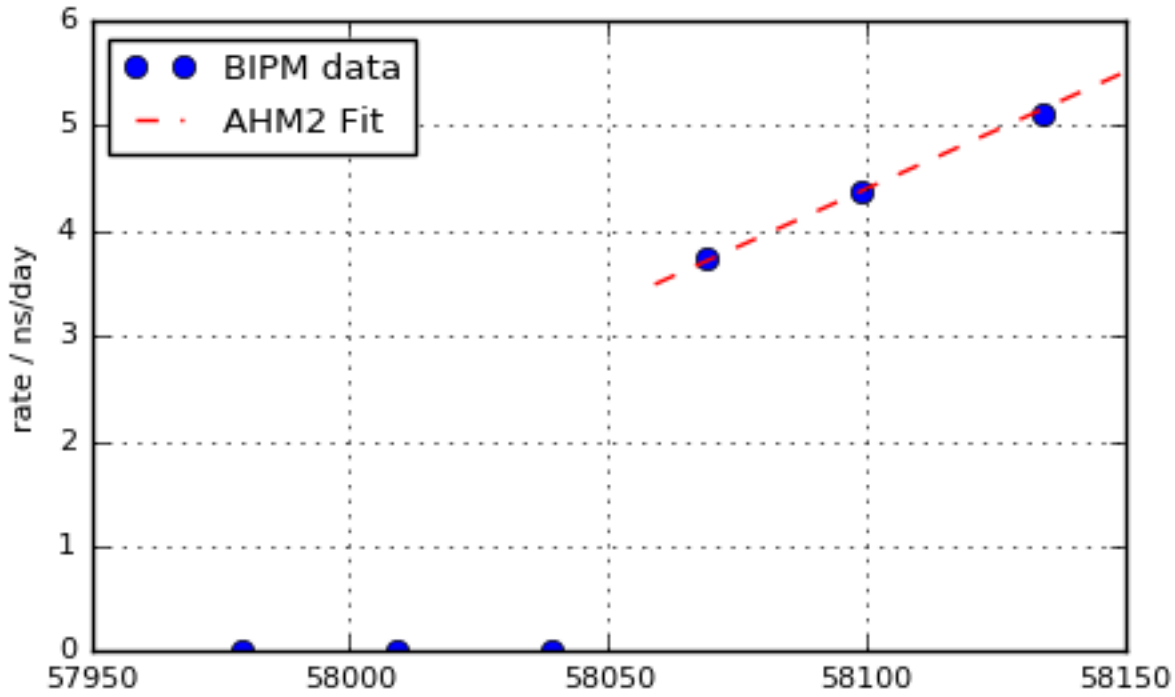


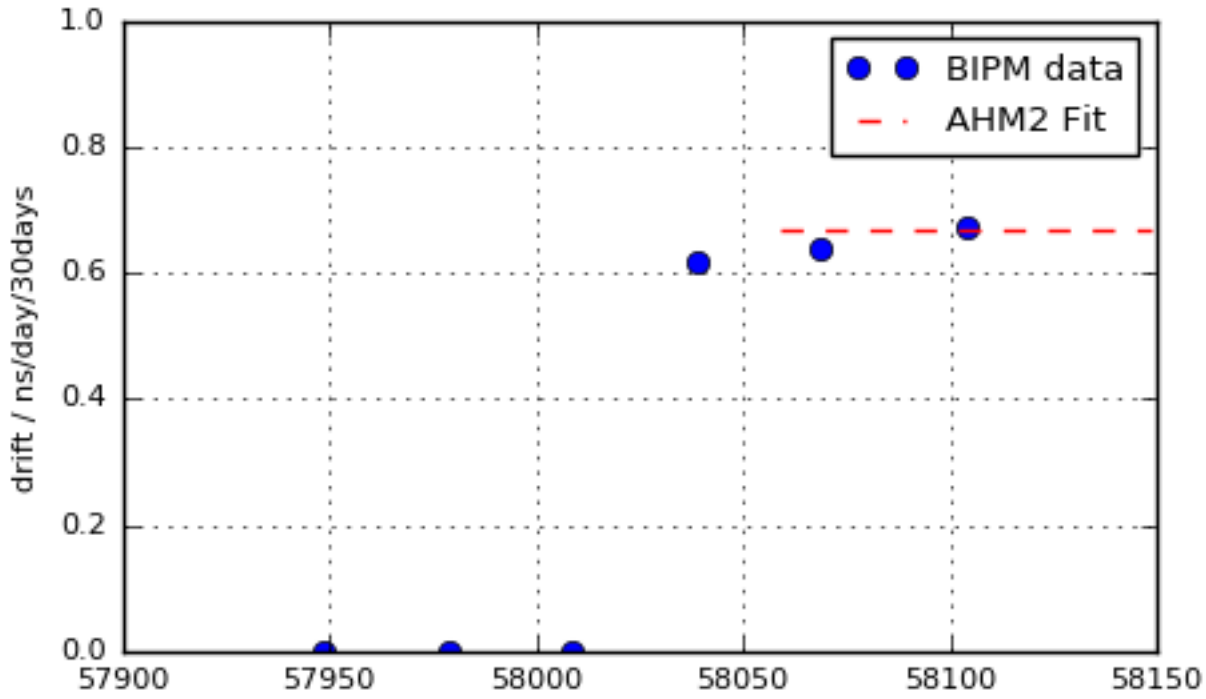


UTC - AHM2 Fit

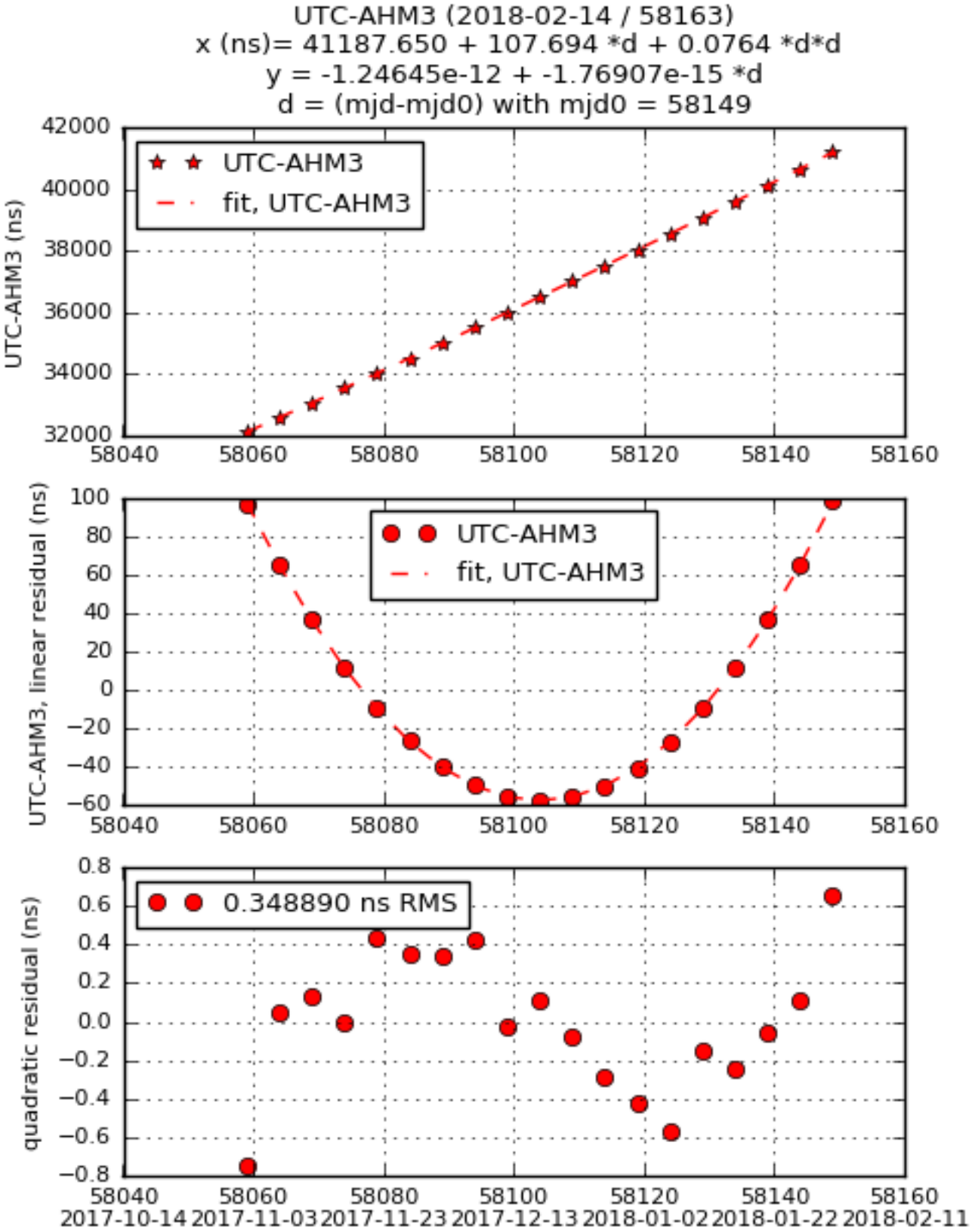

UTC-AHM2 (2018-02-14 / 58163)
x (ns)= 7479.562 + 5.491 *d + 0.0111 *d*d
y = -6.3548e-14 + -2.57206e-16 *d
d = (mjd-mjd0) with mjd0 = 58149
UTC-AHM2
fit, UTC-AHM2
UTC-AHM2 (ns)
UTC-AHM2, linear residual (ns)
0.202138 ns RMS
quadratic residual (ns)
2017-10-14
2017-11-03
2017-11-23
2017-12-13
2018-01-02
2018-01-22
2018-02-11

AHM2 Rate and Drift

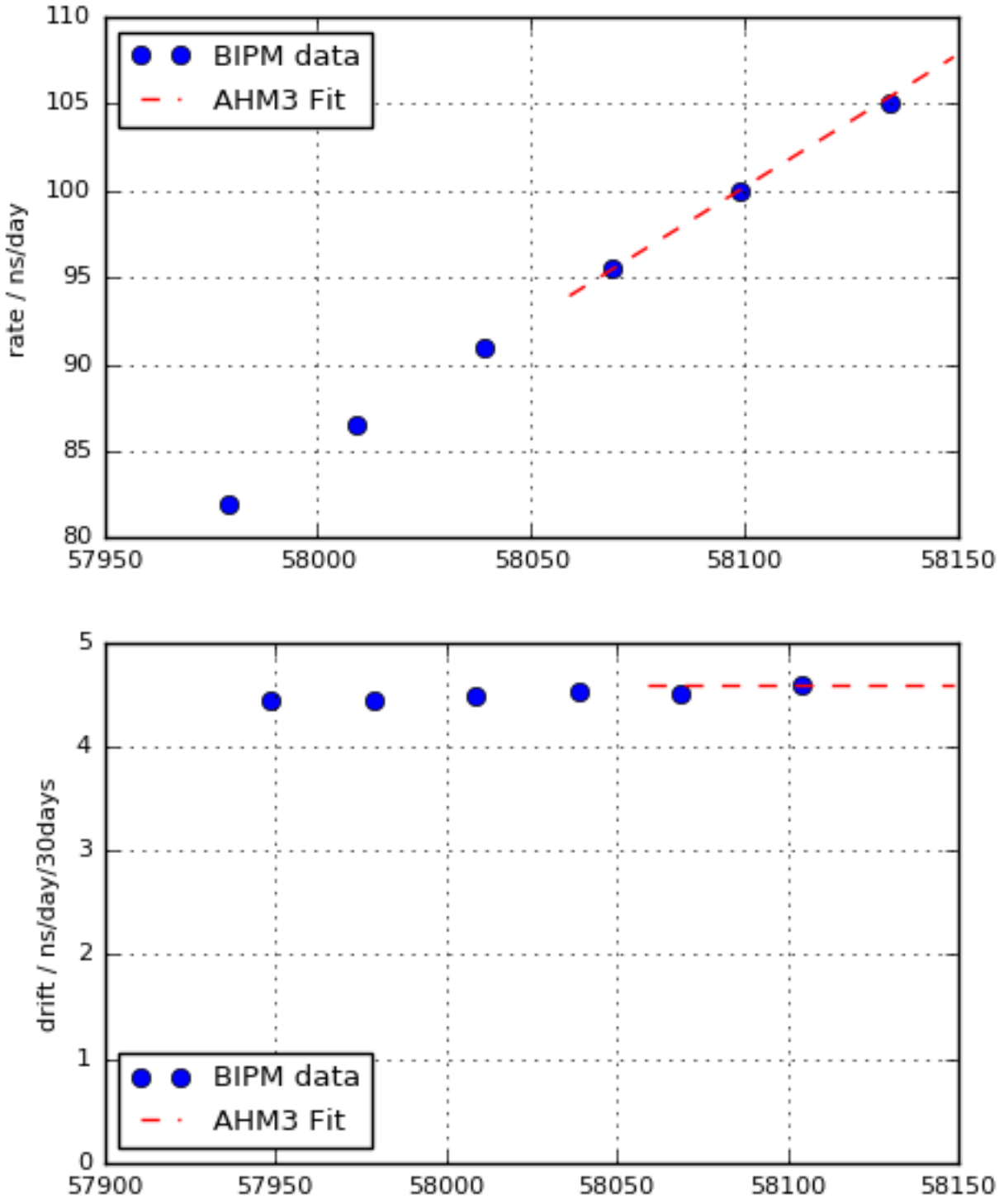




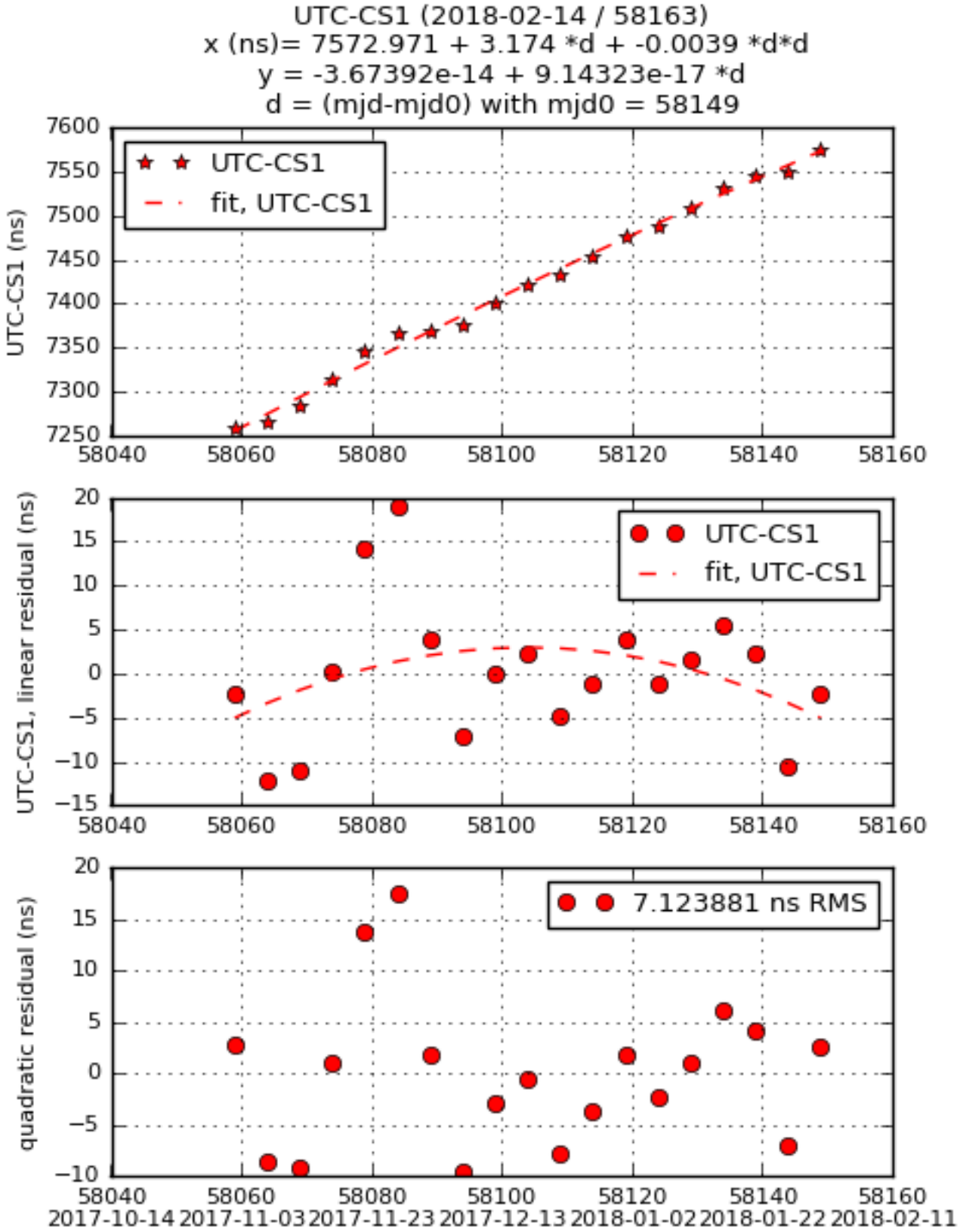
UTC - AHM3 Fit


UTC-AHM3 (2018-02-14 / 58163)
x (ns)= 41187.650 + 107.694 *d + 0.0764 *d*d
y = -1.24645e-12 + -1.76907e-15 *d
d = (mjd-mjd0) with mjd0 = 58149
UTC-AHM3
fit, UTC-AHM3
UTC-AHM3 (ns)
UTC-AHM3, linear residual (ns)
0.348890 ns RMS
quadratic residual (ns)
2017-10-14
2017-11-03
2017-11-23
2017-12-13
2018-01-02
2018-01-22
2018-02-11

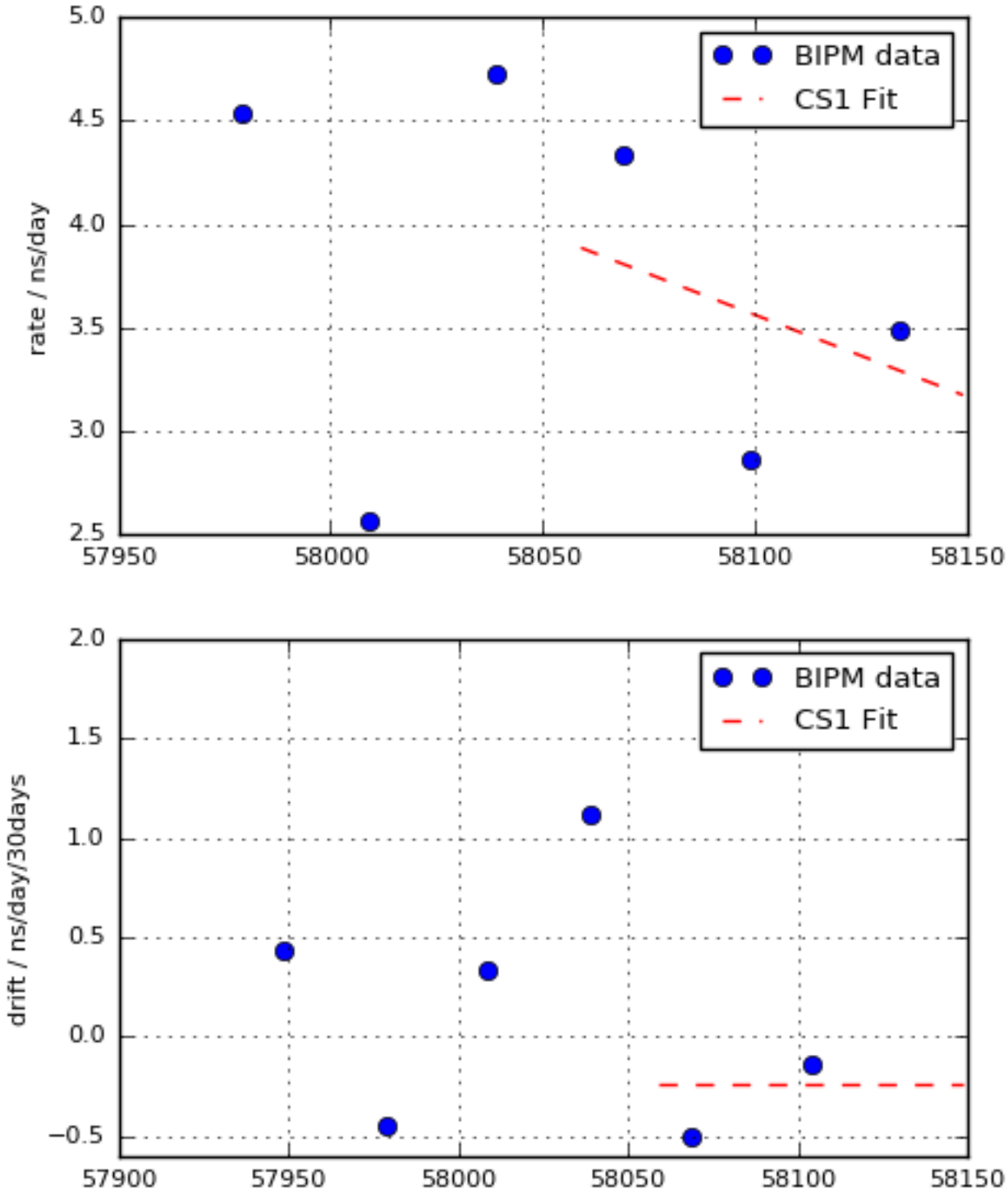
AHM3 Rate and Drift



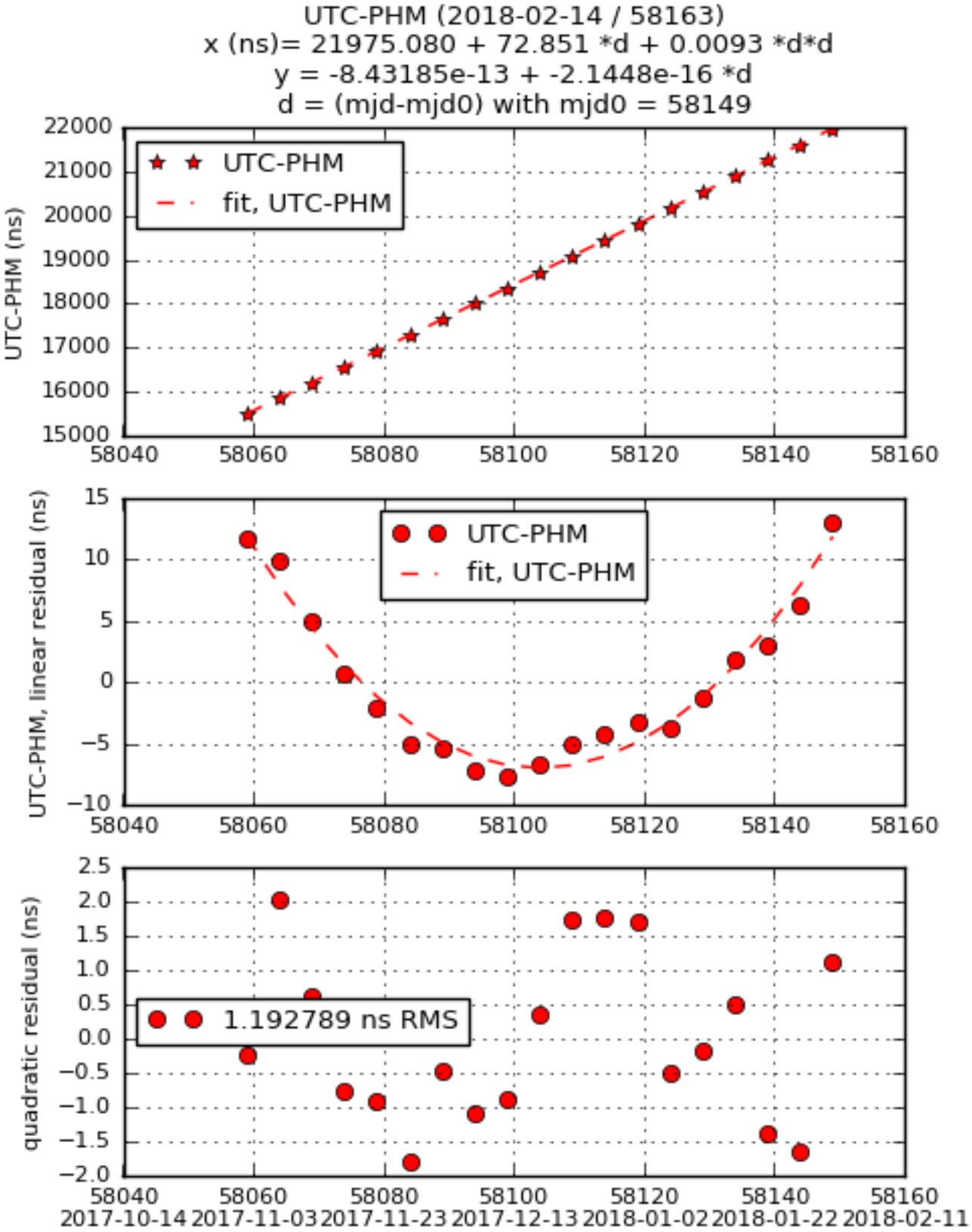
UTC - CS1 Fit


UTC-CS1 (2018-02-14 / 58163)
x (ns)= 7572.971 + 3.174 *d + -0.0039 *d*d
y = -3.67392e-14 + 9.14323e-17 *d
d = (mjd-mjd0) with mjd0 = 58149
UTC-CS1
fit, UTC-CS1
UTC-CS1 (ns)
UTC-CS1, linear residual (ns)
7.123881 ns RMS
quadratic residual (ns)
2017-10-14
2017-11-03
2017-11-23
2017-12-13
2018-01-02
2018-01-22
2018-02-11

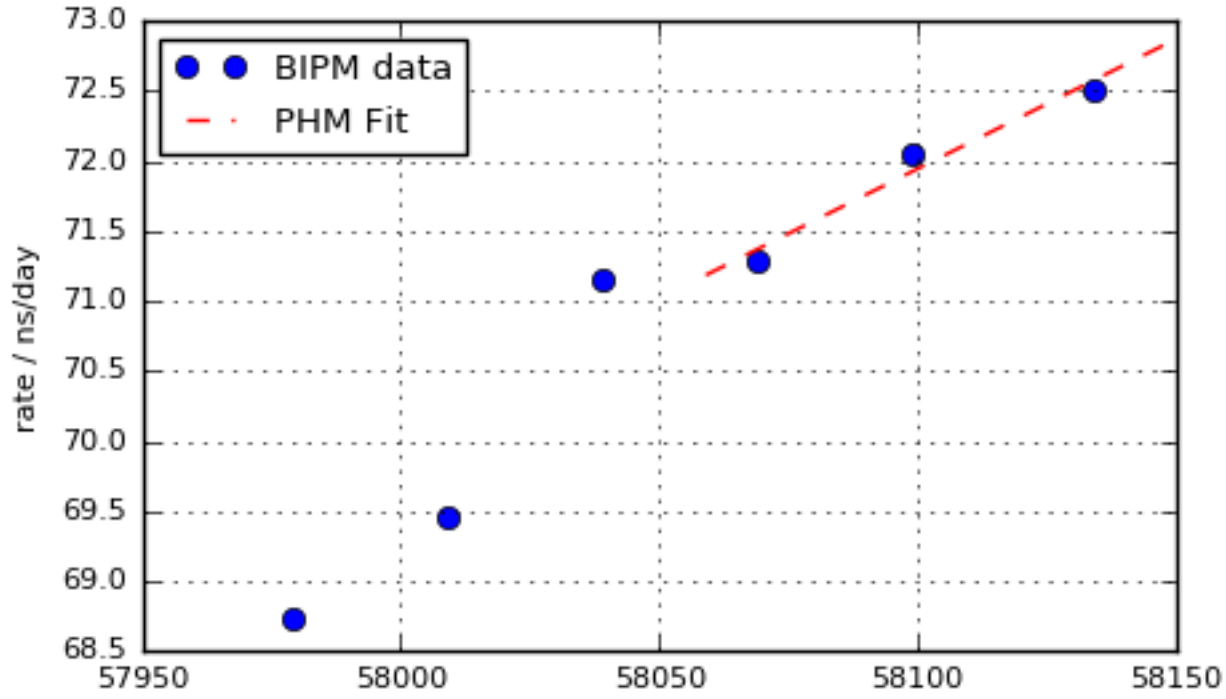
CS1 Rate and Drift

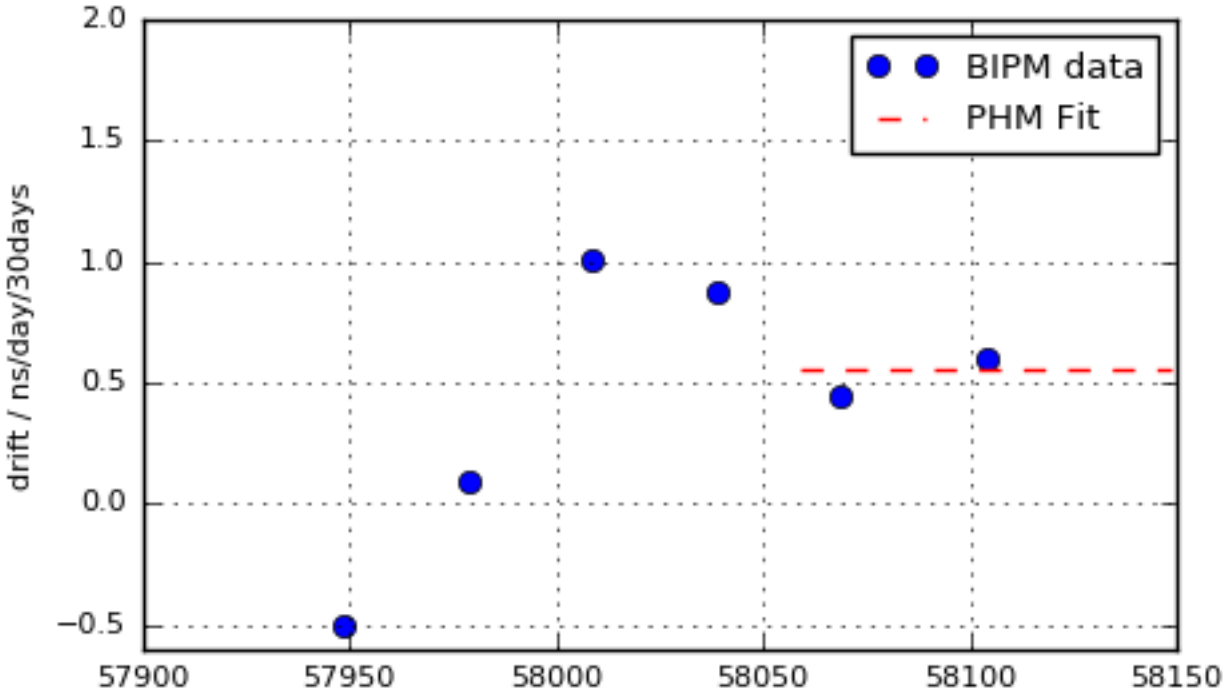


UTC - PHM Fit


UTC-PHM (2018-02-14 / 58163)
x (ns)= 21975.080 + 72.851 *d + 0.0093 *d*d
y = -8.43185e-13 + -2.1448e-16 *d
d = (mjd-mjd0) with mjd0 = 58149
UTC-PHM
fit, UTC-PHM
UTC-PHM (ns)
UTC-PHM, linear residual (ns)
quadratic residual (ns)
1.192789 ns RMS
2017-10-14
2017-11-03
2017-11-23
2017-12-13
2018-01-02
2018-01-22
2018-02-11

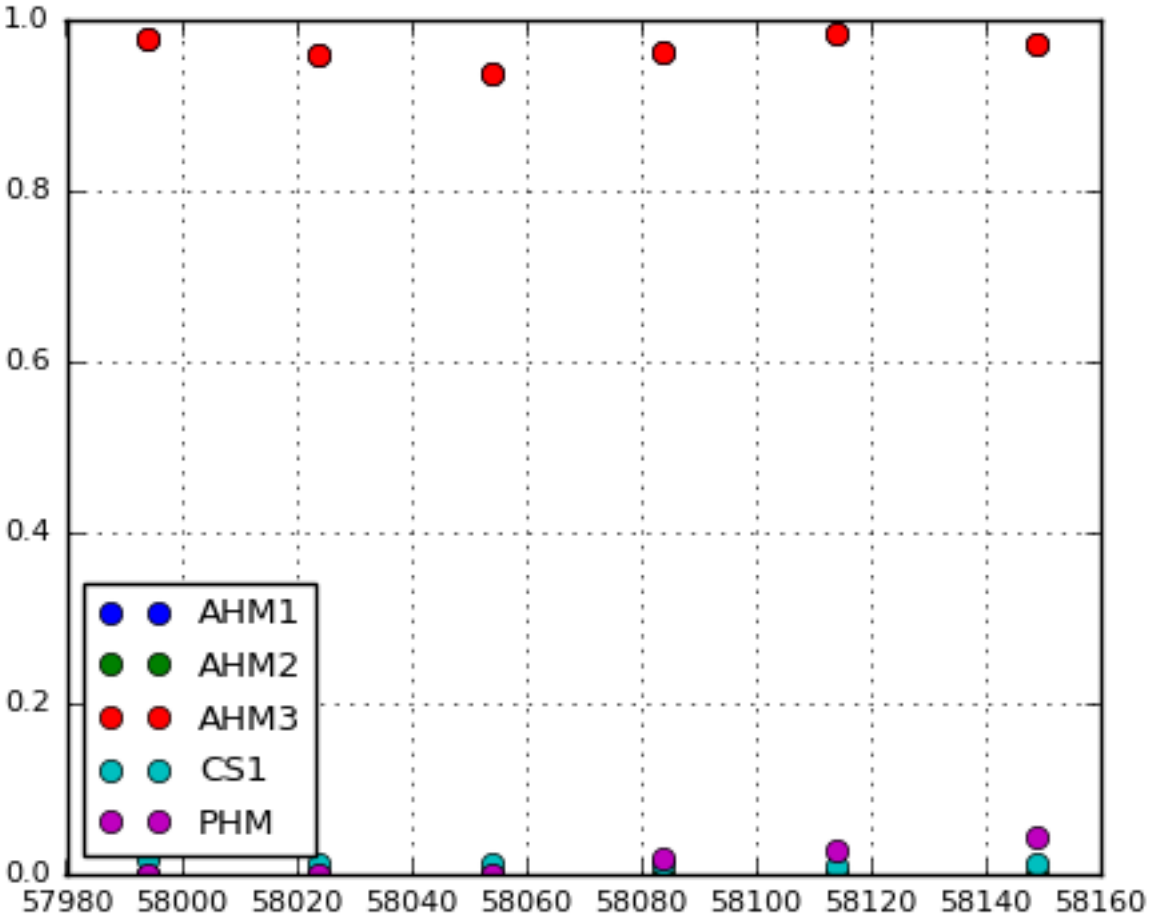
PHM Rate and Drift





Clock Weights

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



End of Bulletin.