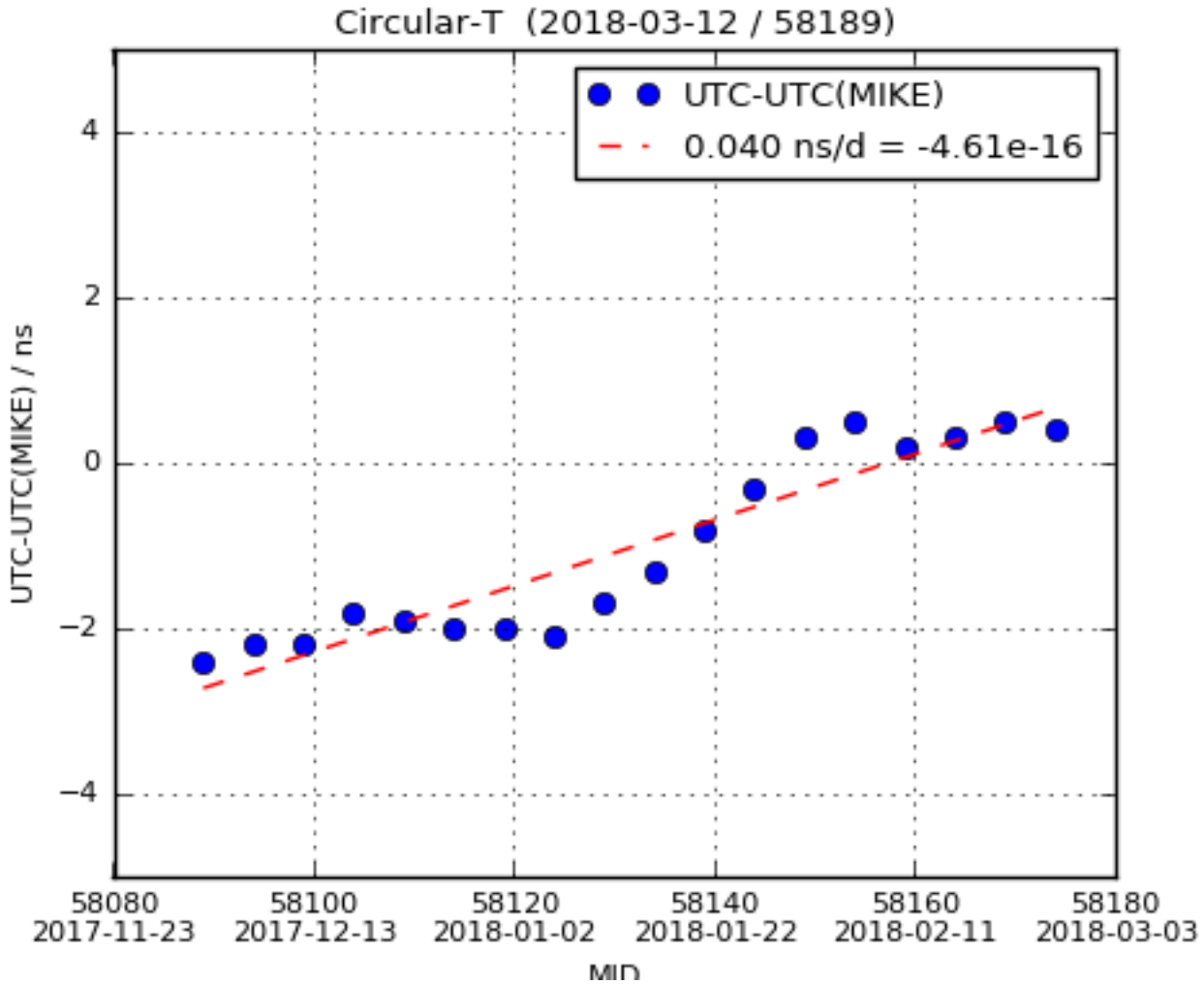
UTC(MIKE) Atomic Bulletin 2018-03

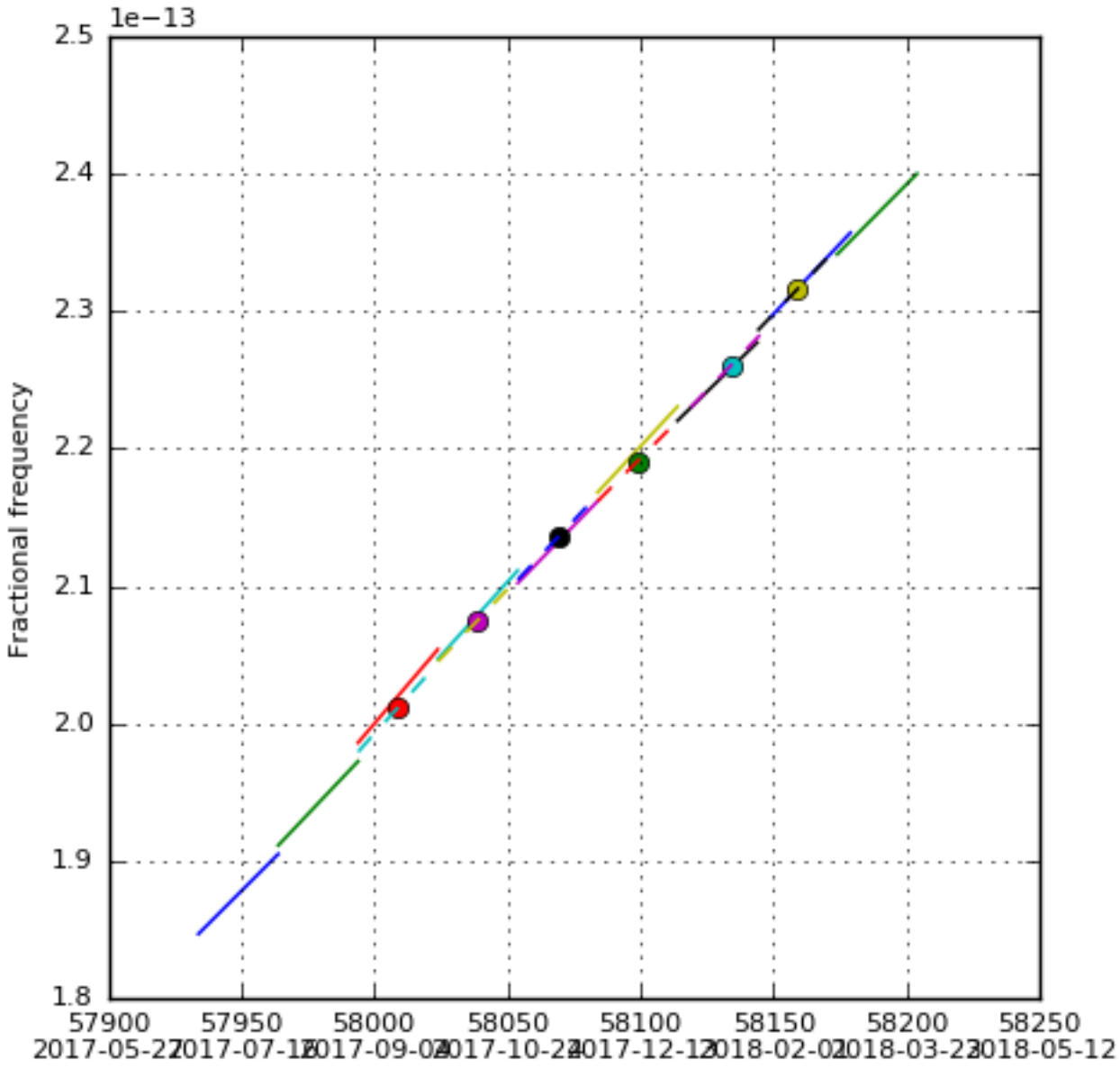
VTT MIKES Metrology monthly Time & Frequency bulletin.
Comments and questions to: time "at" vtt.fi
Date of publication: 2018-03-12
Circular-T issues used for analysis: 360, 361, 362,
First day of analysis interval: 2017-12-02 (58089)
Last day of analysis interval: 2018-02-25 (58174)
ClockData for analysis: CDMI__17.12_, CDMI__18.01_, CDMI__18.02_,

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



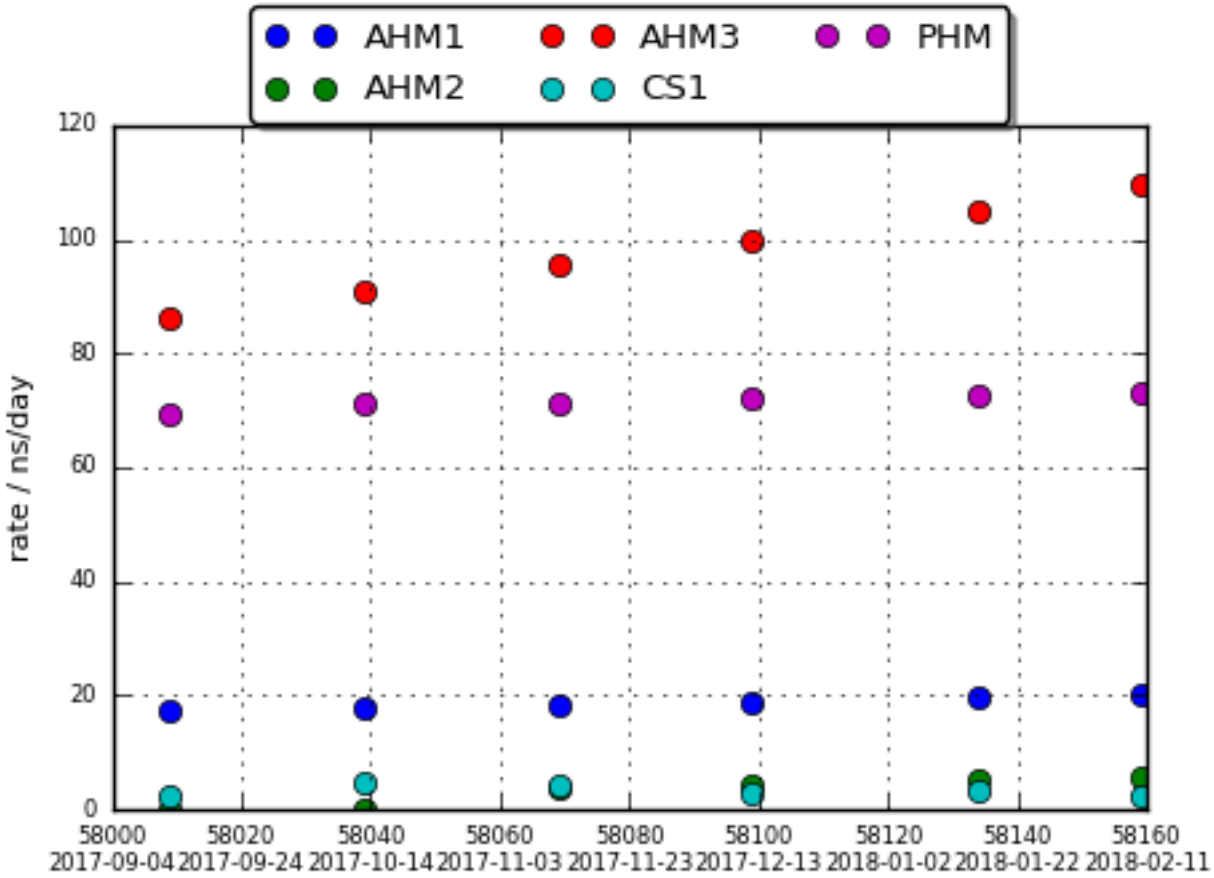
UTC-UTC(MIKE) is available on 5 day intervals on MJD dates ending with 4 or 9. Values are published monthly by the BIPM in Circular-T.

UTC(MIKE) frequency steering parameters

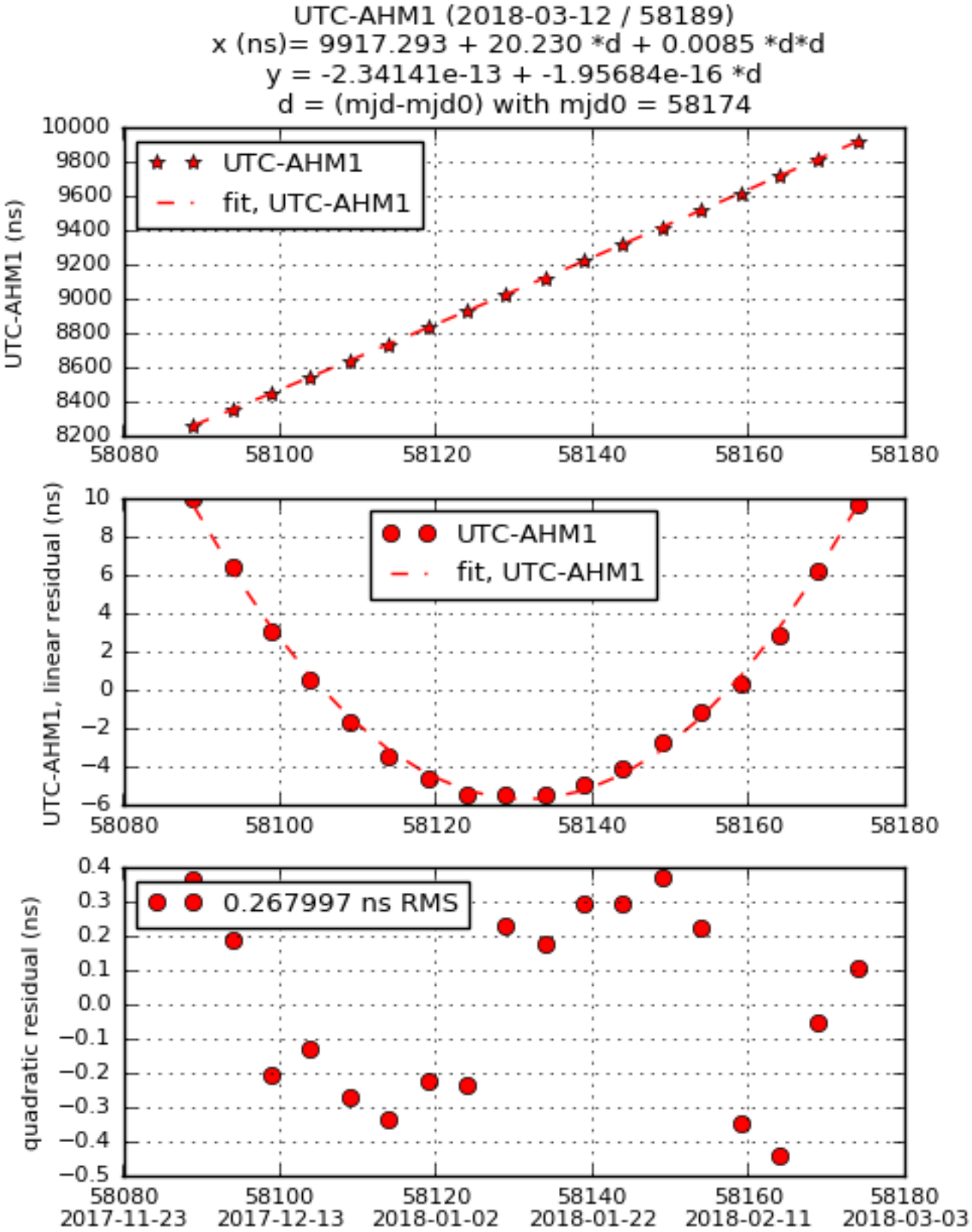


UTC(MIKE) Master Clock is AHM1 since 2017-07-15.
Solid lines indicate UTC(MIKE) steering parameters derived from UTC-ClockData fits.
Symbols and dashed lines indicate MasterClock rates and drifts as published by BIPM.
The latest steering parameters are:
y = 2.34141e-13 + 1.95684e-16 *d + y_steer
with d = (mjd-mjd) and mjd0 = 58174
y_steer = 0 since 58150

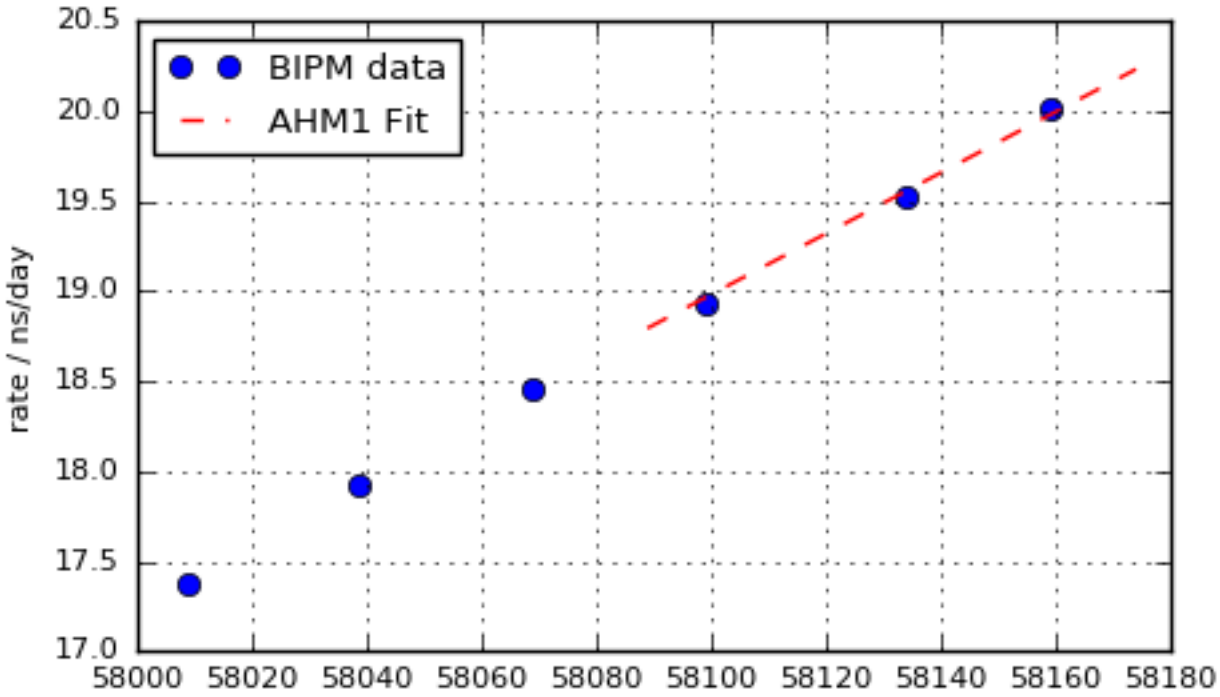
Clock Rates - Summary

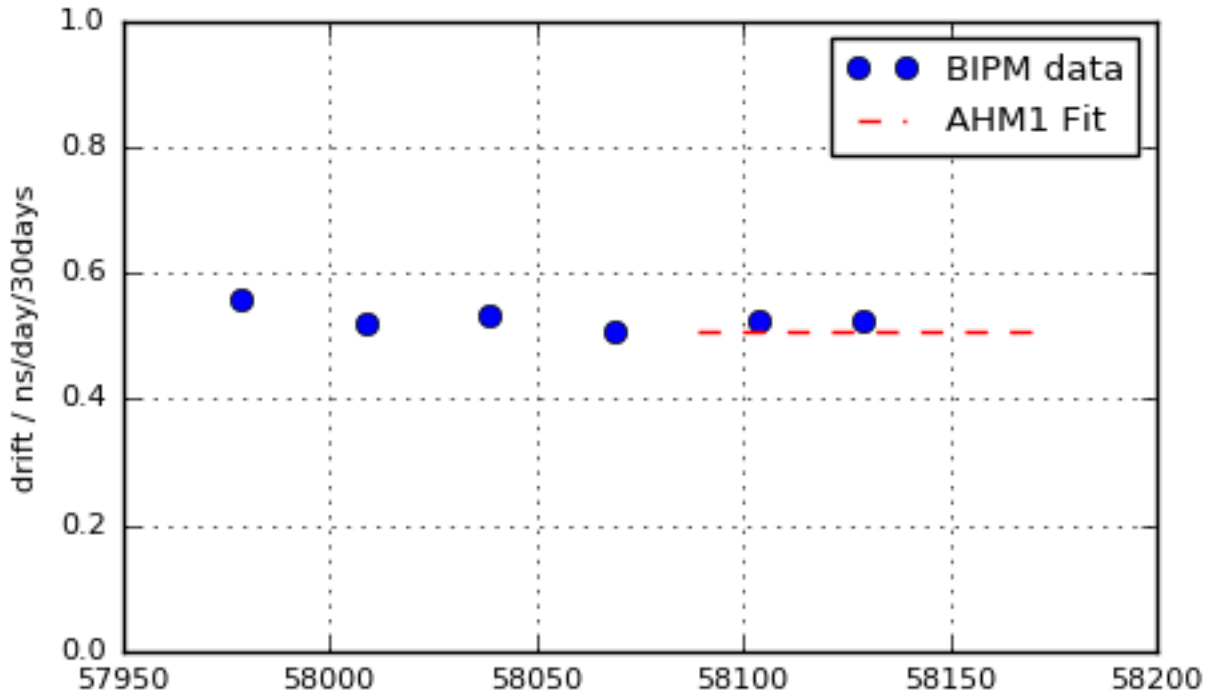


UTC - AHM1 Fit

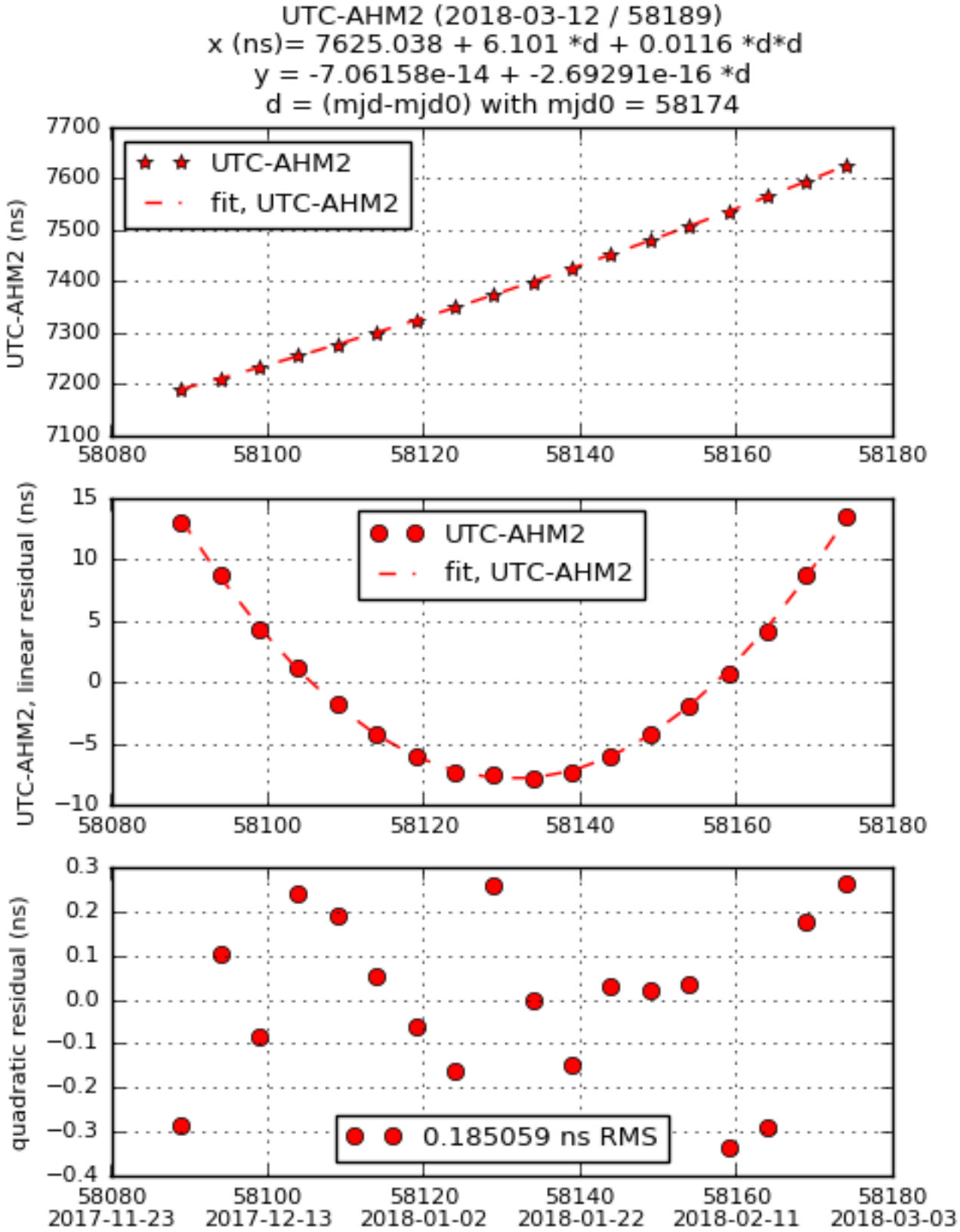

UTC-AHM1 (2018-03-12 / 58189)
x (ns)= 9917.293 + 20.230 *d + 0.0085 *d*d
y = -2.34141e-13 + -1.95684e-16 *d
d = (mjd-mjd0) with mjd0 = 58174
UTC-AHM1
fit, UTC-AHM1
UTC-AHM1 (ns)
UTC-AHM1, linear residual (ns)
0.267997 ns RMS
quadratic residual (ns)
2017-11-23
2017-12-13
2018-01-02
2018-01-22
2018-02-11
2018-03-03

AHM1 Rate and Drift

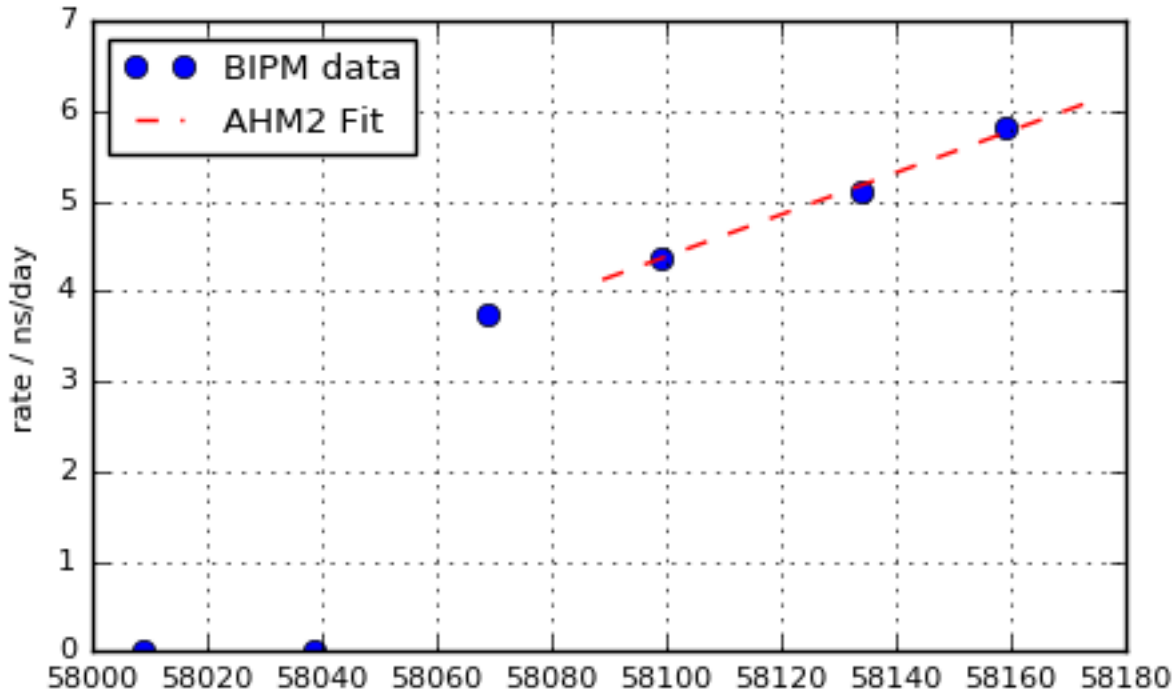


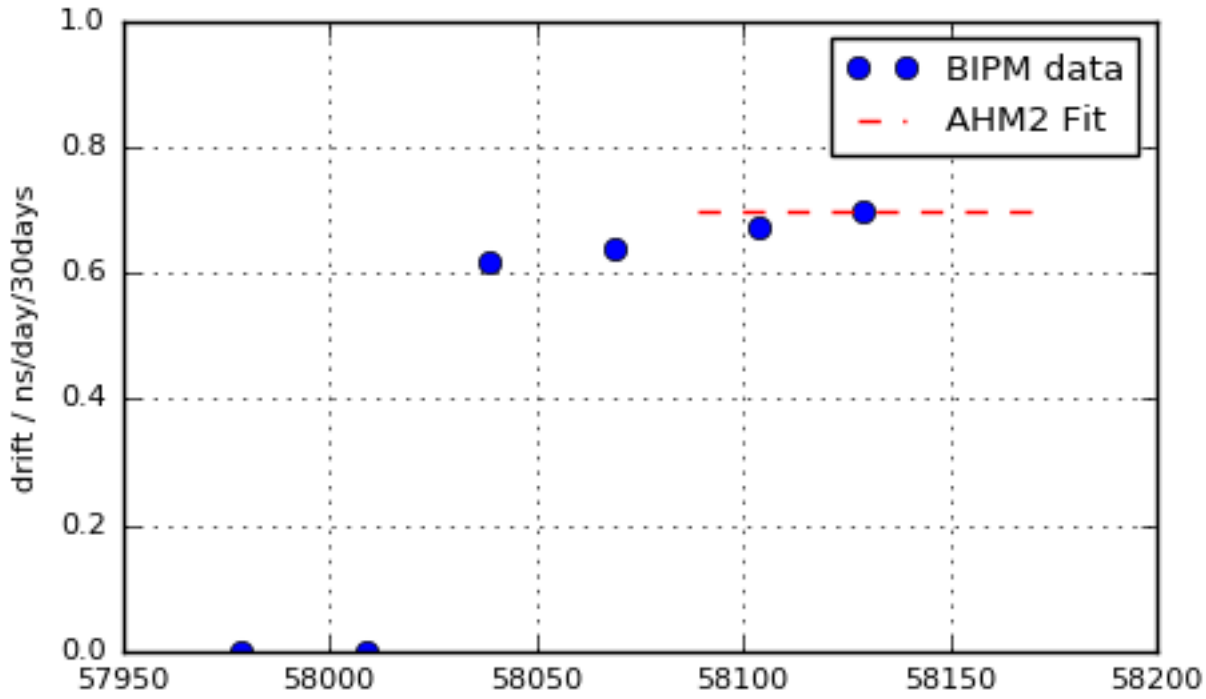


UTC - AHM2 Fit

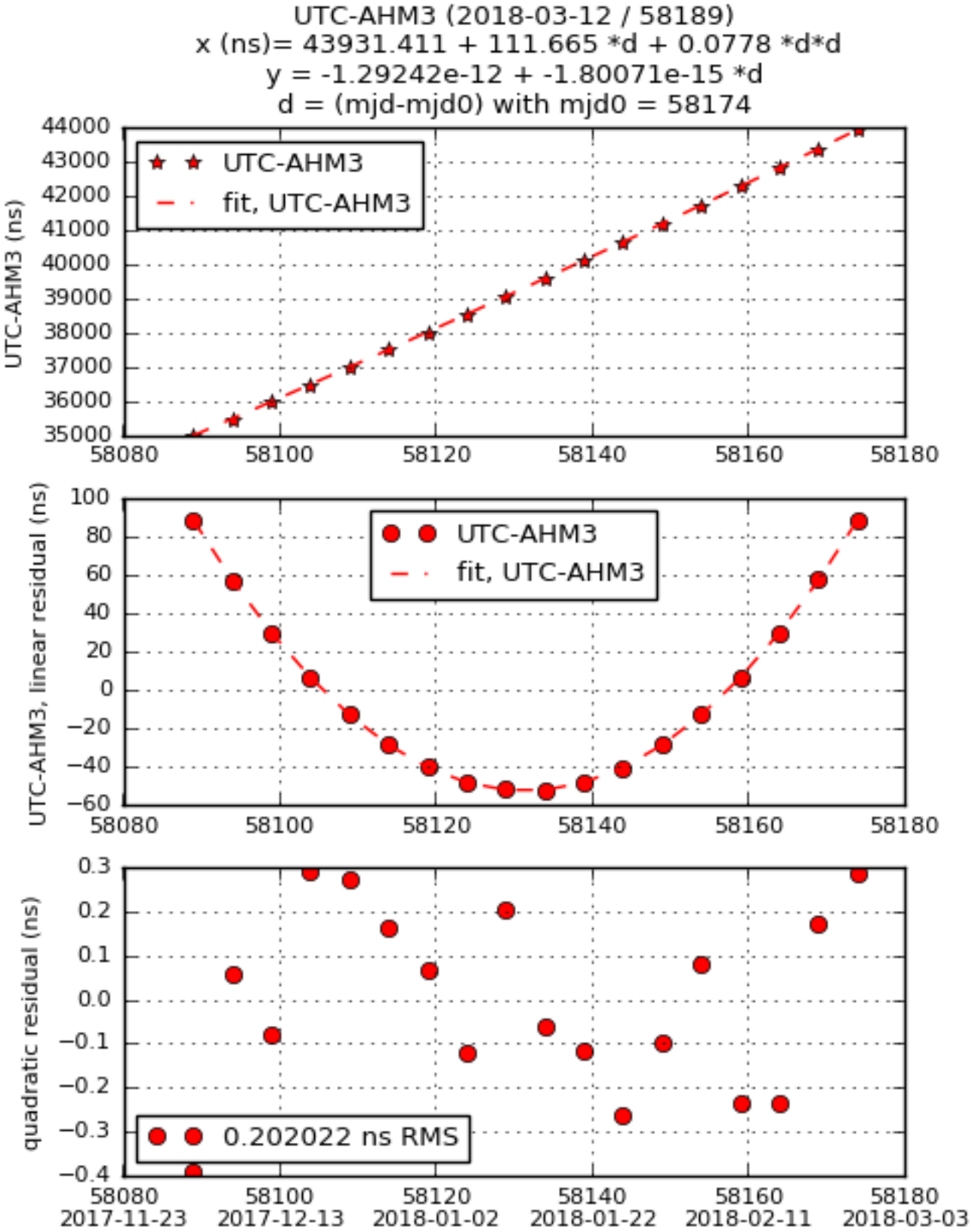

UTC-AHM2 (2018-03-12 / 58189)
x (ns)= 7625.038 + 6.101 *d + 0.0116 *d*d
y = -7.06158e-14 + -2.69291e-16 *d
d = (mjd-mjd0) with mjd0 = 58174
UTC-AHM2
fit, UTC-AHM2
UTC-AHM2 (ns)
UTC-AHM2, linear residual (ns)
quadratic residual (ns)
0.185059 ns RMS
2017-11-23
2017-12-13
2018-01-02
2018-01-22
2018-02-11
2018-03-03

AHM2 Rate and Drift

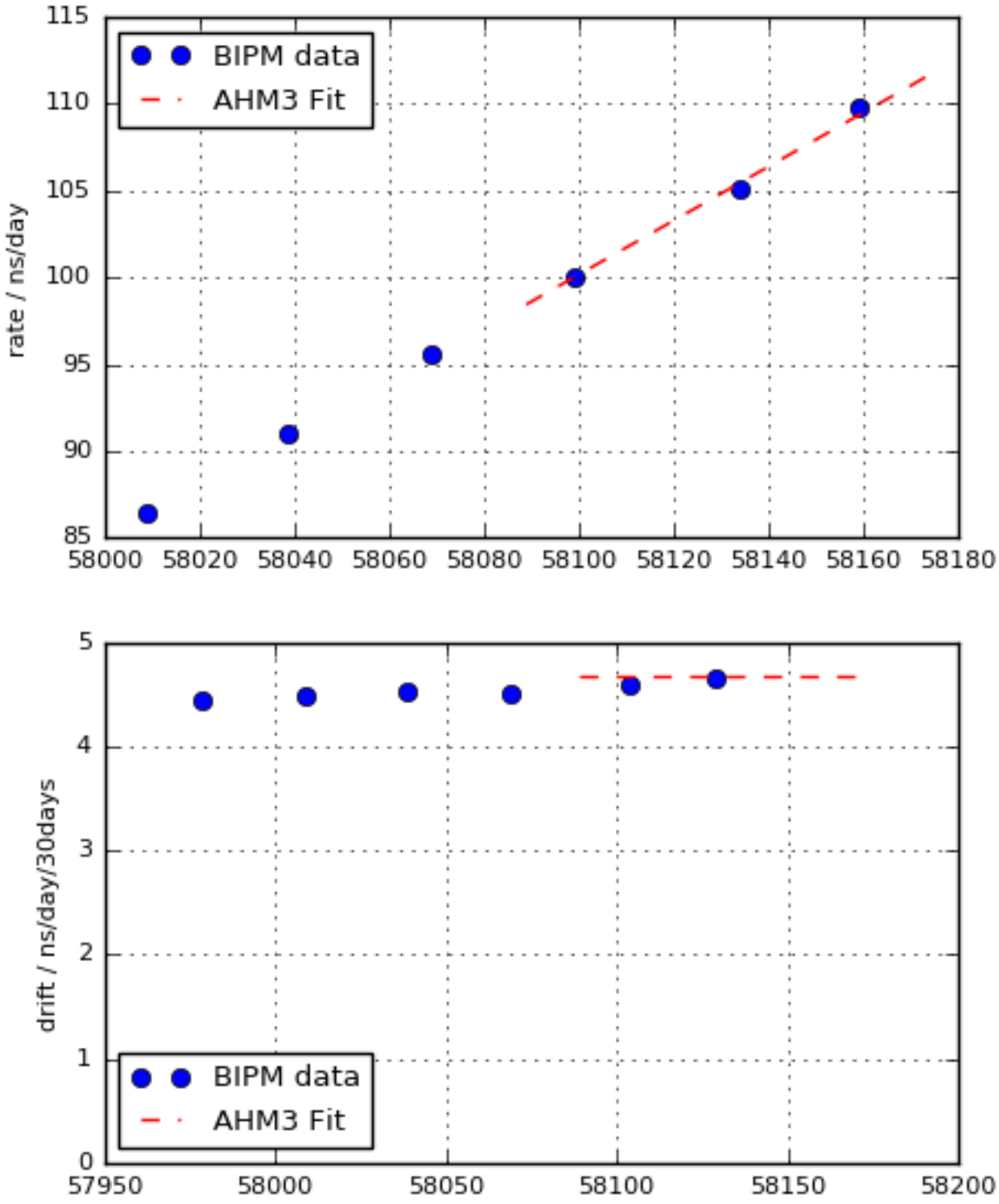




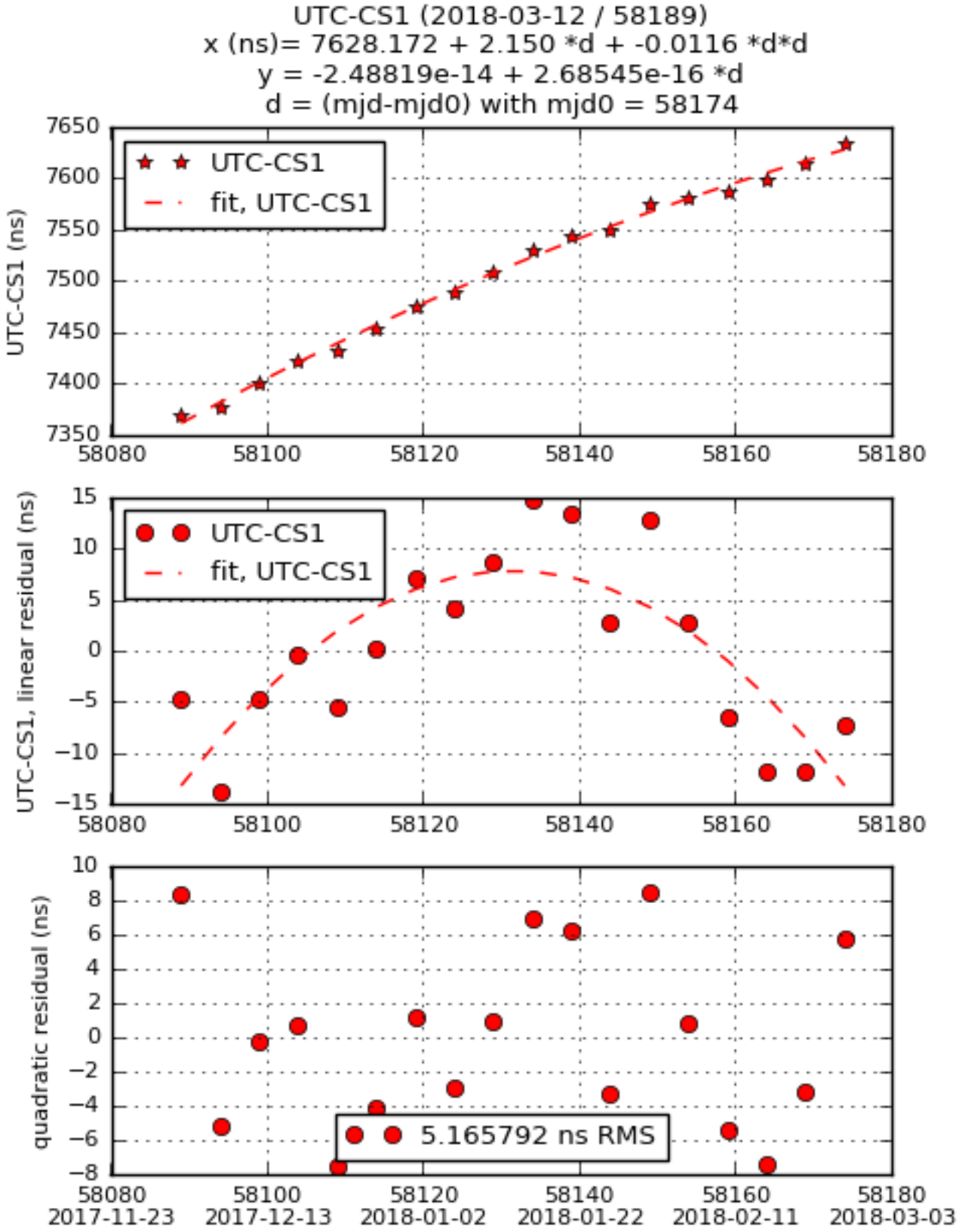
UTC - AHM3 Fit


UTC-AHM3 (2018-03-12 / 58189)
x (ns)= 43931.411 + 111.665 *d + 0.0778 *d*d
y = -1.29242e-12 + -1.80071e-15 *d
d = (mjd-mjd0) with mjd0 = 58174
UTC-AHM3
fit, UTC-AHM3
UTC-AHM3 (ns)
UTC-AHM3, linear residual (ns)
quadratic residual (ns)
0.202022 ns RMS
2017-11-23
2017-12-13
2018-01-02
2018-01-22
2018-02-11
2018-03-03

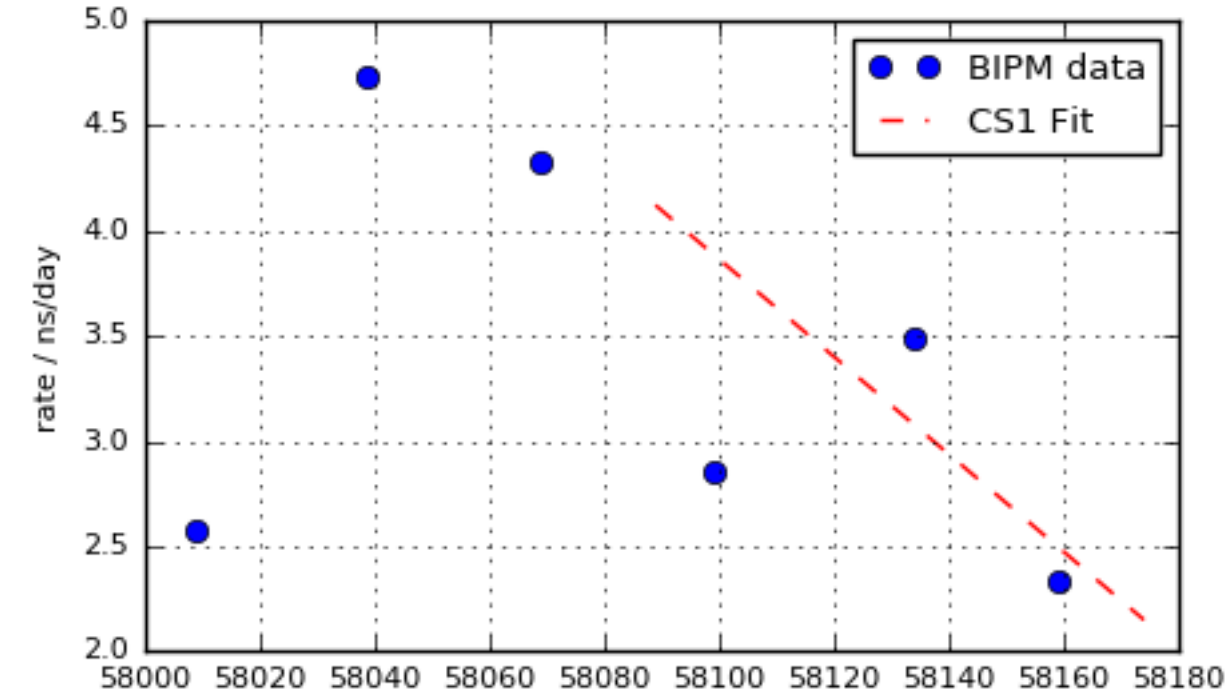
AHM3 Rate and Drift

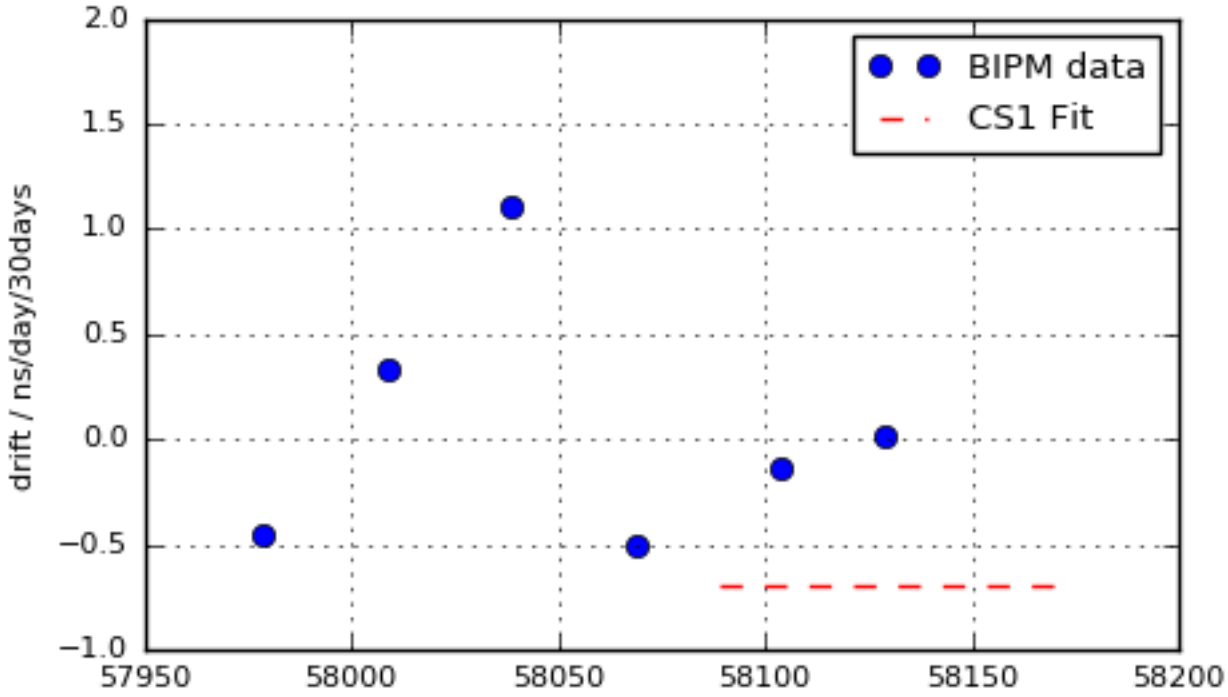


UTC - CS1 Fit

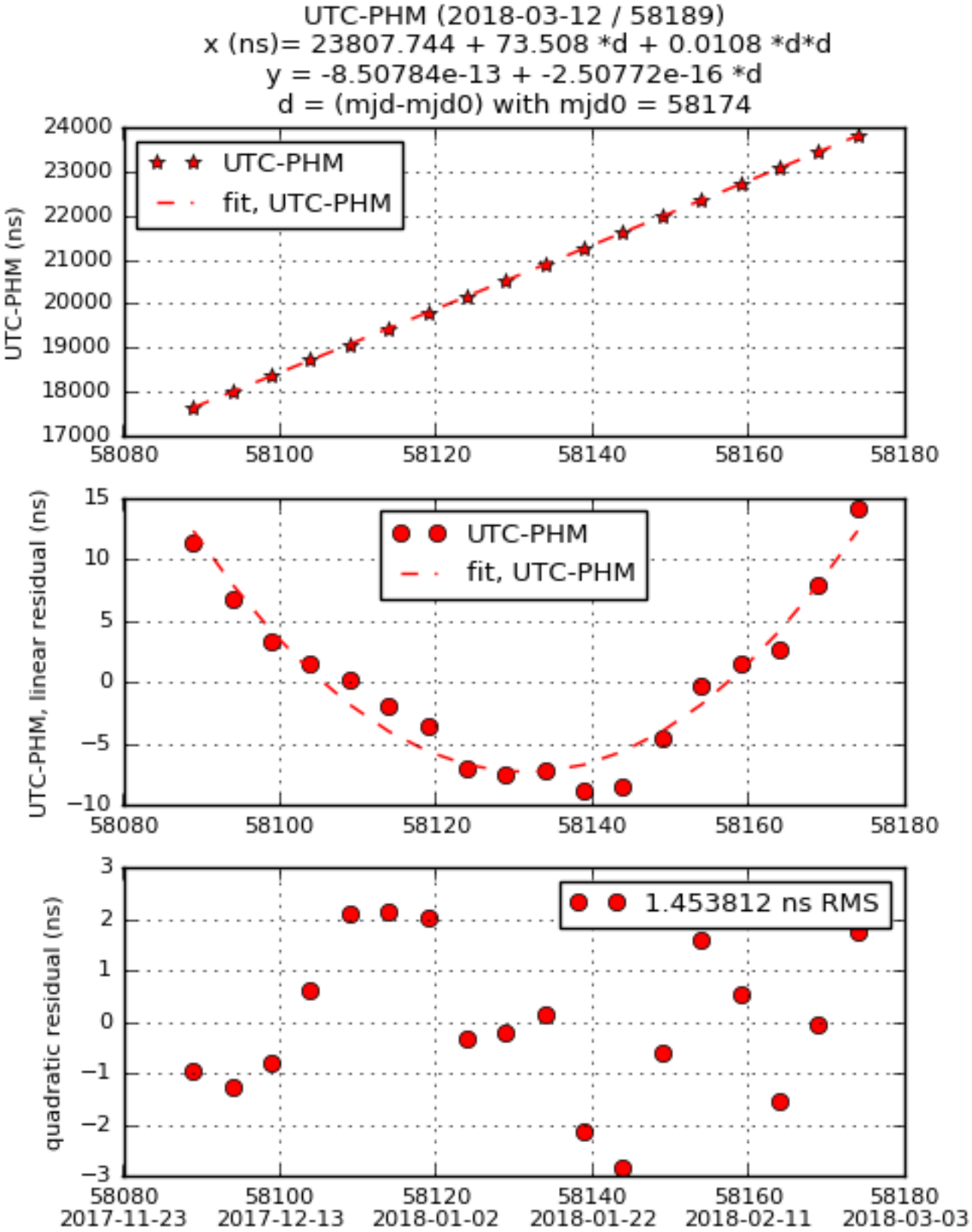

UTC-CS1 (2018-03-12 / 58189)
x (ns)= 7628.172 + 2.150 *d + -0.0116 *d*d
y = -2.48819e-14 + 2.68545e-16 *d
d = (mjd-mjd0) with mjd0 = 58174
UTC-CS1
fit, UTC-CS1
UTC-CS1 (ns)
UTC-CS1, linear residual (ns)
quadratic residual (ns)
5.165792 ns RMS
58080
58100
58120
58140
58160
58180
2017-11-23
2017-12-13
2018-01-02
2018-01-22
2018-02-11
2018-03-03

CS1 Rate and Drift

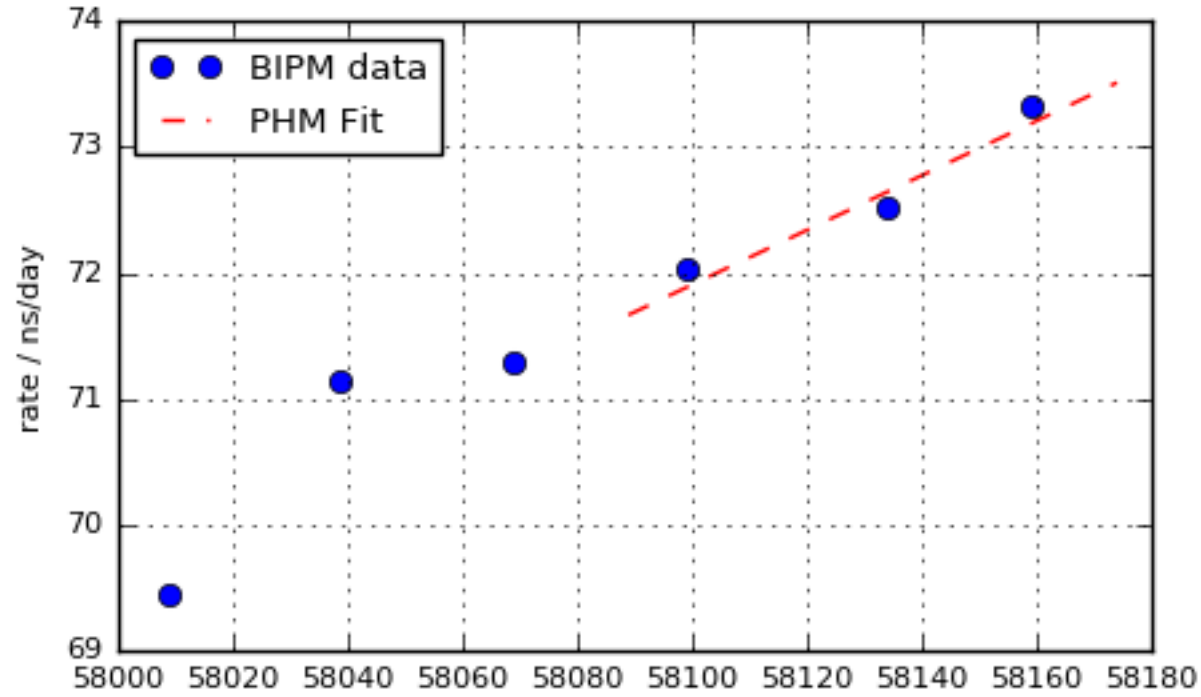


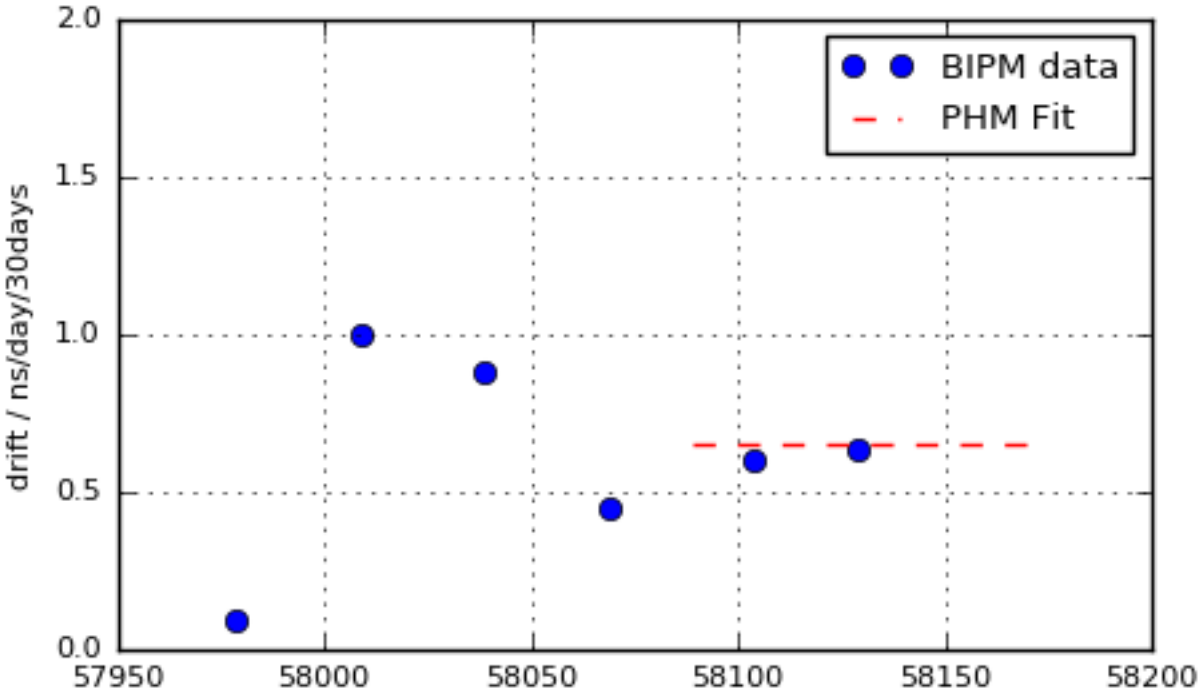


UTC - PHM Fit


UTC-PHM (2018-03-12 / 58189)
x (ns)= 23807.744 + 73.508 *d + 0.0108 *d*d
y = -8.50784e-13 + -2.50772e-16 *d
d = (mjd-mjd0) with mjd0 = 58174
UTC-PHM
fit, UTC-PHM
UTC-PHM (ns)
UTC-PHM, linear residual (ns)
1.453812 ns RMS
quadratic residual (ns)
58080
58100
58120
58140
58160
58180
2017-11-23
2017-12-13
2018-01-02
2018-01-22
2018-02-11
2018-03-03

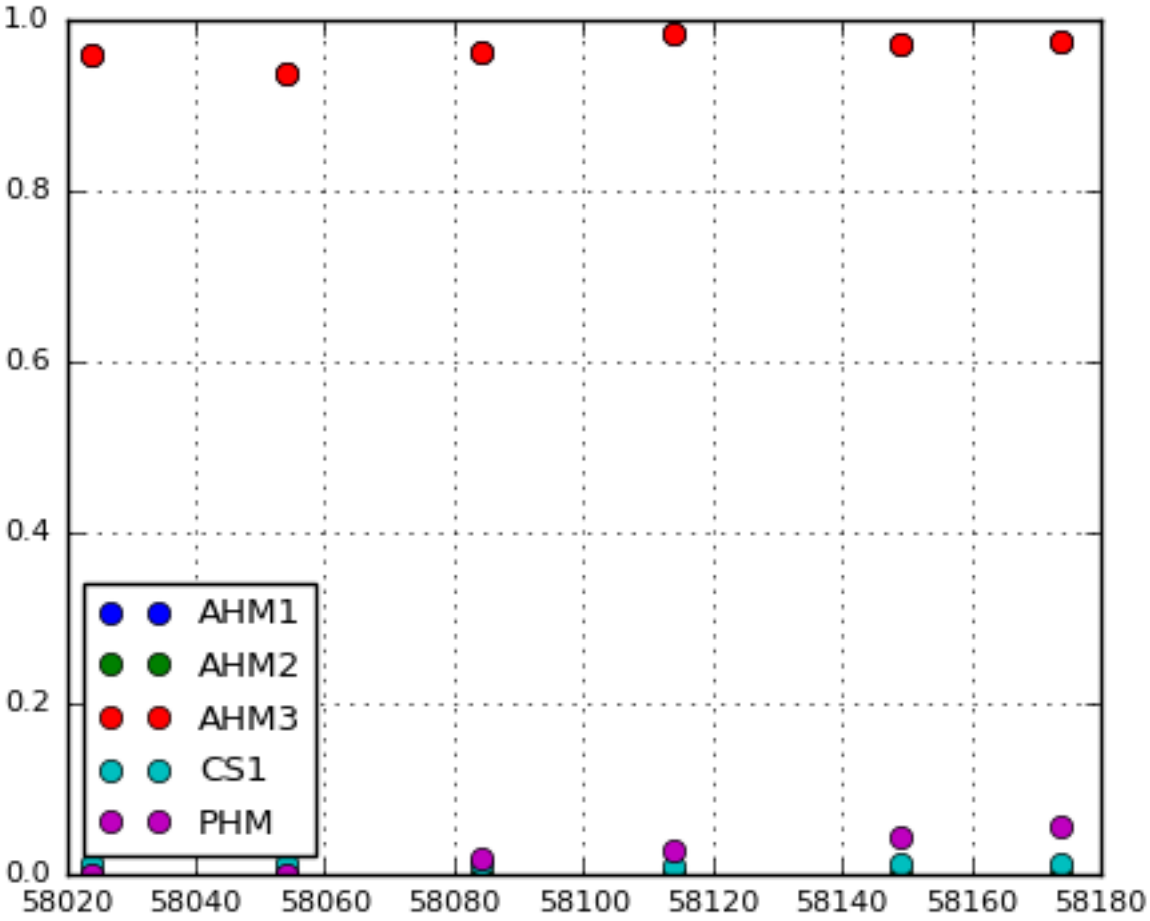
PHM Rate and Drift





Clock Weights

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



End of Bulletin.