

UTC(MIKE) Atomic Bulletin 2019-03

VTT MIKES Metrology monthly Time & Frequency bulletin.

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

Date of publication: 2019-03-15 (58557)

Circular-T issues used for analysis: [372](#), [373](#), [374](#),

First day of analysis interval: 2018-12-02 (58454)

Last day of analysis interval: 2019-02-25 (58539)

ClockData for analysis: [CDMI 18.12](#), [CDMI 19.01](#), [CDMI 19.02](#),

Notes

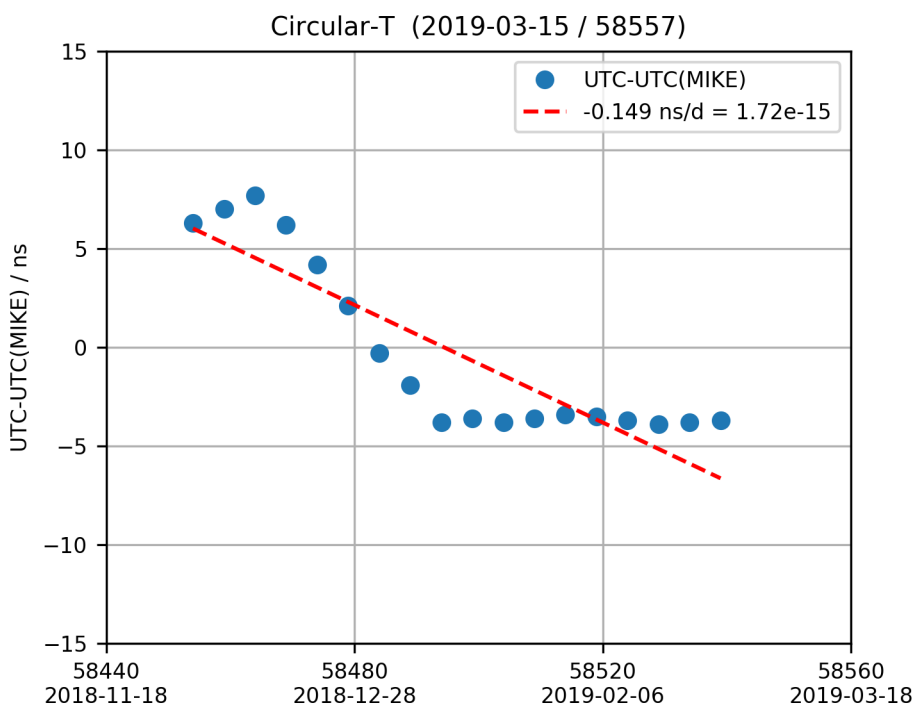
58299 Apparent time step of UTC(MIKE) of +8.2 ns between MJD 58299 and MJD 58304 due to antenna coordinates correction. ClockData before 58299.5 is corrected by -8.2 ns for analysis.

58305 AHM3 rebooted. Phase step +20.2ns.

58450 CS1 Hotwire supply regulation failure

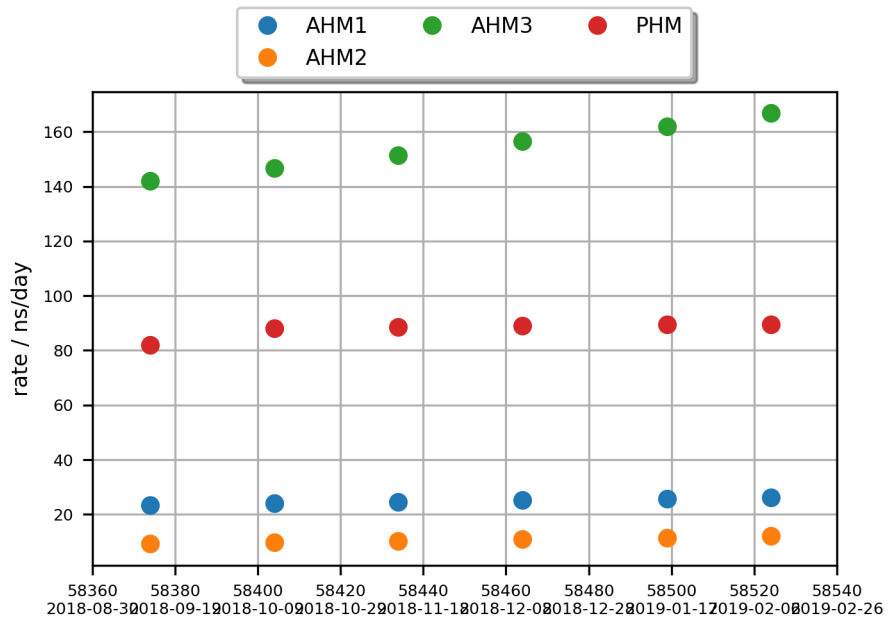
58494 Change master-clock to AHM2

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



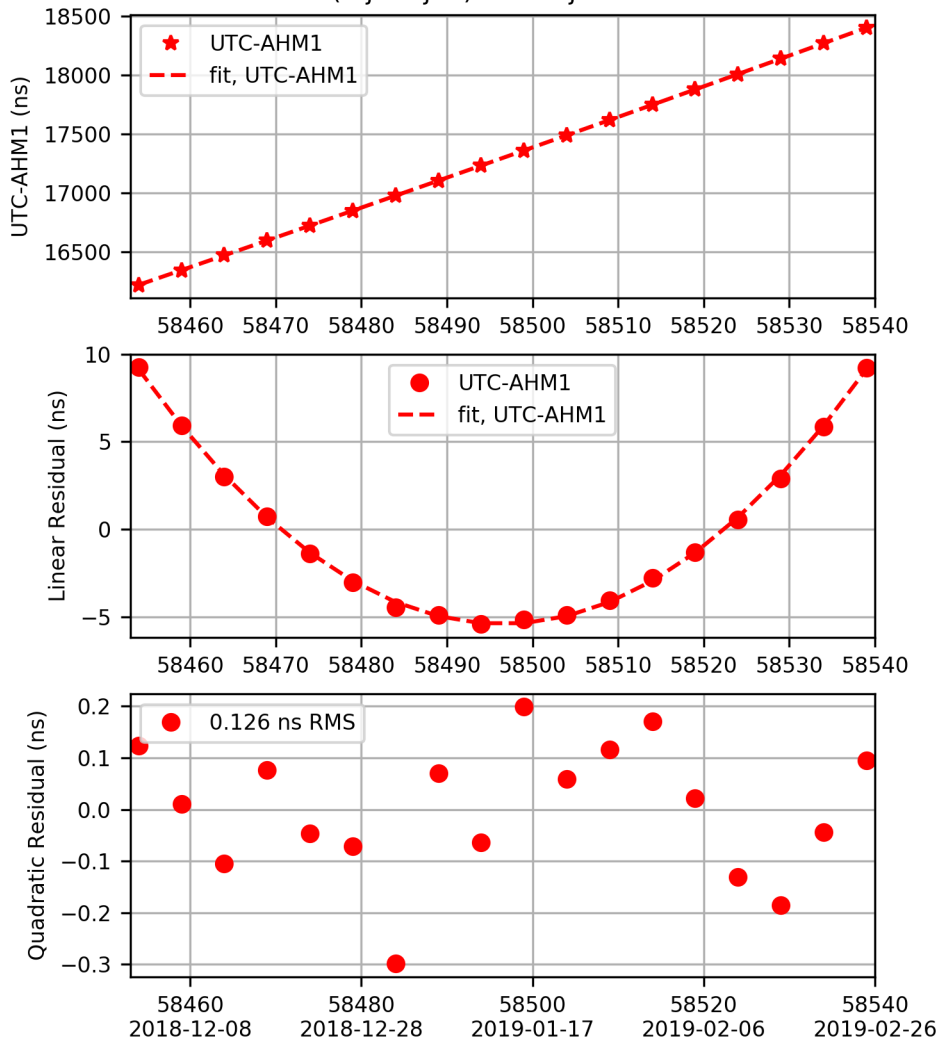
UTC-UTC(MIKE) is available on 5 day intervals on MJD dates ending with 4 or 9. Values are published monthly by the BIPM in Circular-T.

Clock Rates - Summary

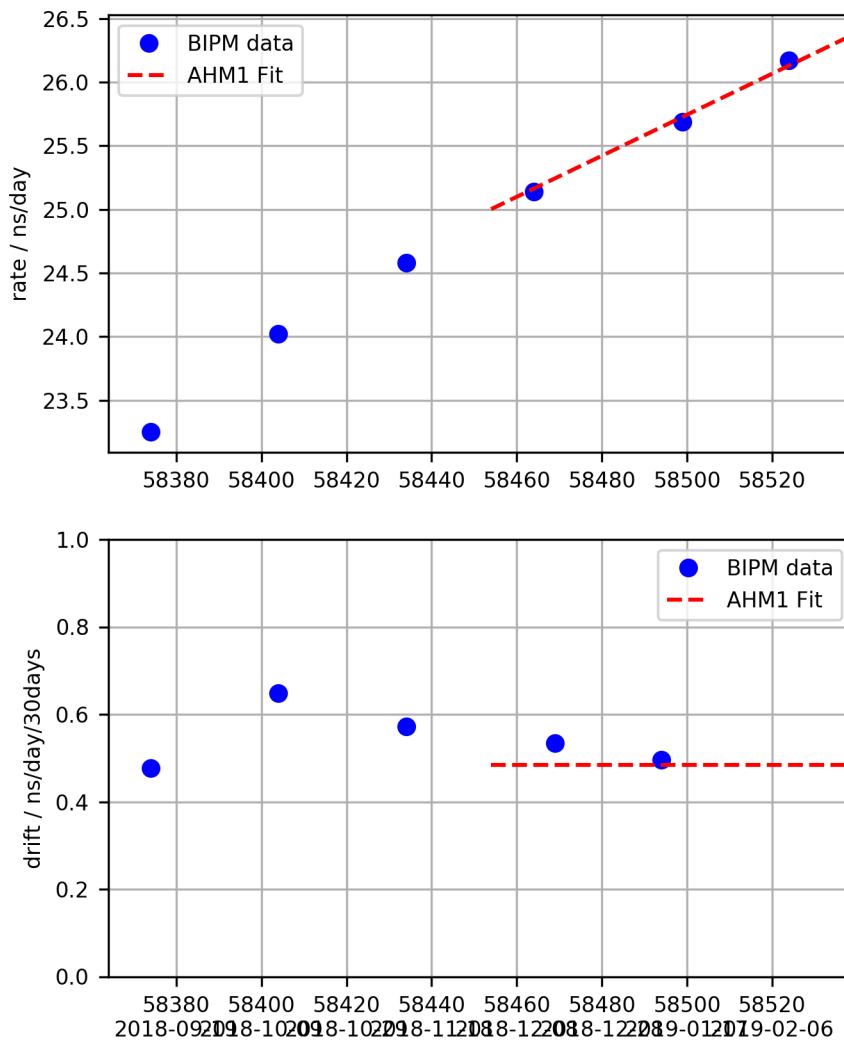


UTC - AHM1 Fit

UTC-AHM1 (2019-03-15 / 58557)
 $x \text{ (ns)} = 18402.104 + 26.372 *d + 0.0081 *d*d$
 $y = -3.05237e-13 + -1.86577e-16 *d$
 $d = (\text{mjd}-\text{mjd0}) \text{ with mjd0} = 58539$

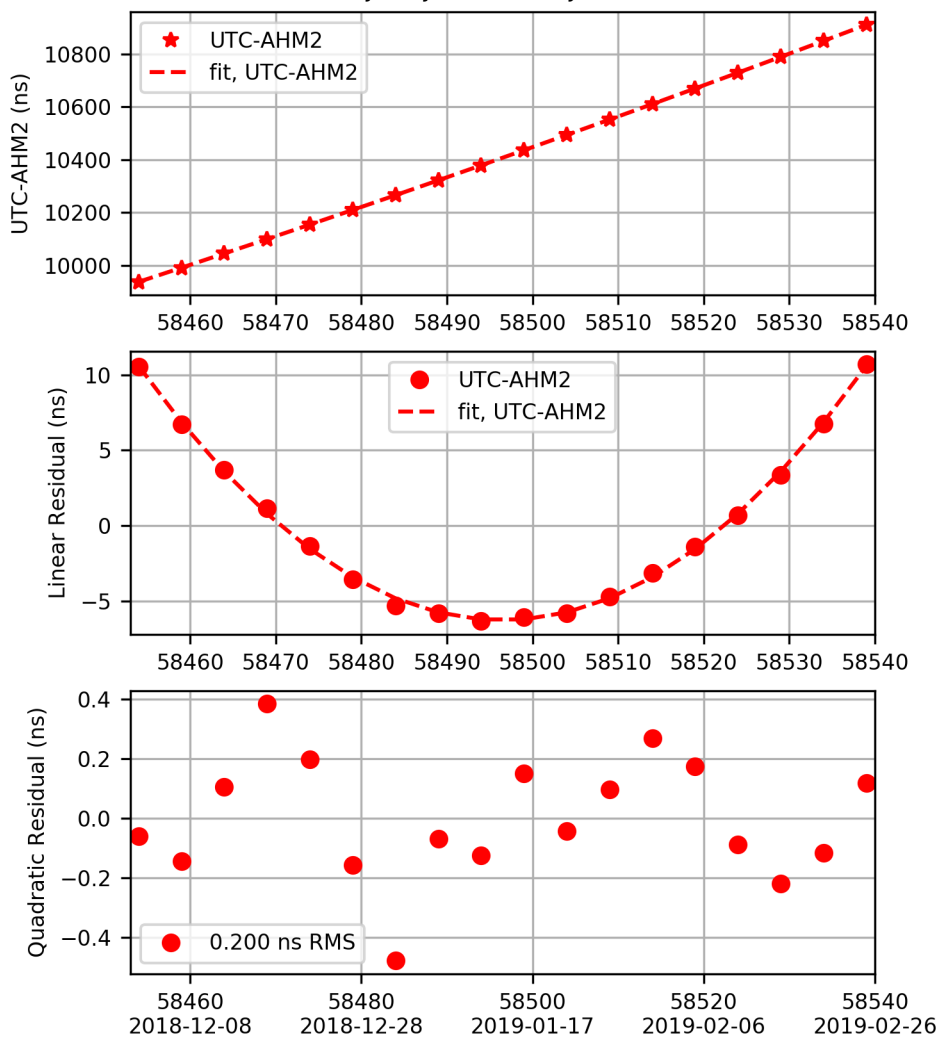


AHM1 Rate and Drift

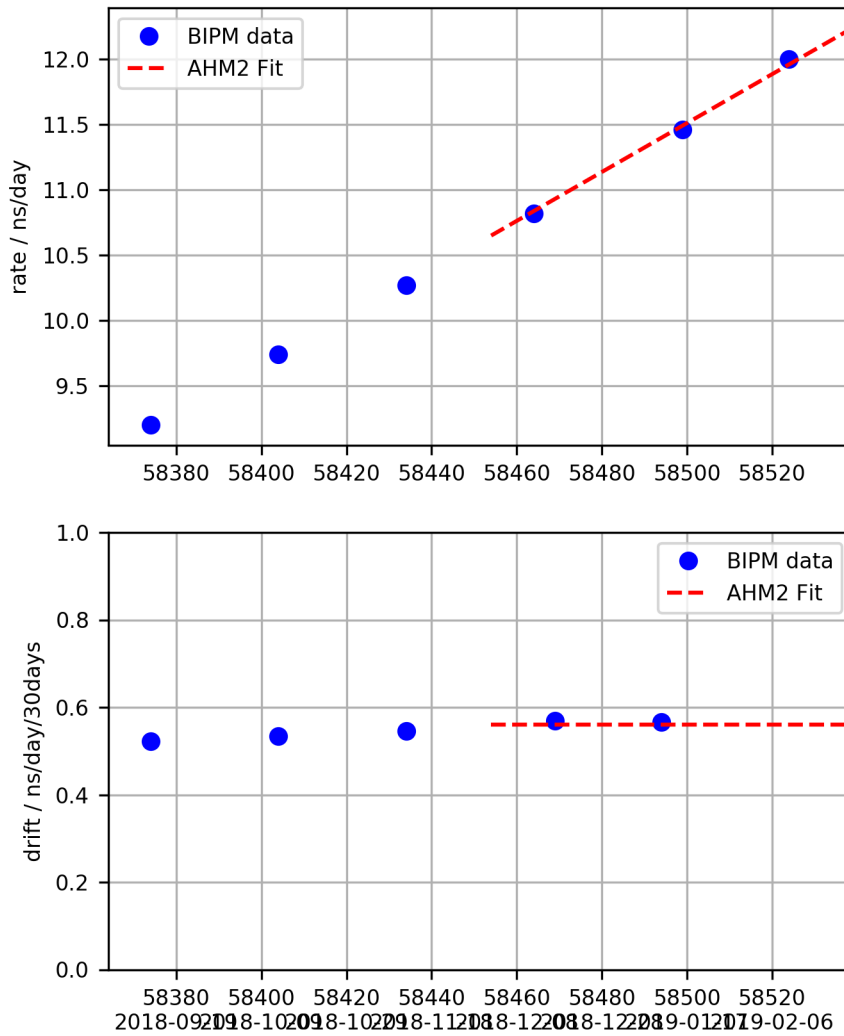


UTC - AHM2 Fit

UTC-AHM2 (2019-03-15 / 58557)
 $x \text{ (ns)} = 10910.482 + 12.240 *d + 0.0094 *d*d$
 $y = -1.41665e-13 + -2.16479e-16 *d$
 $d = (\text{mjd}-\text{mjd0}) \text{ with mjd0} = 58539$

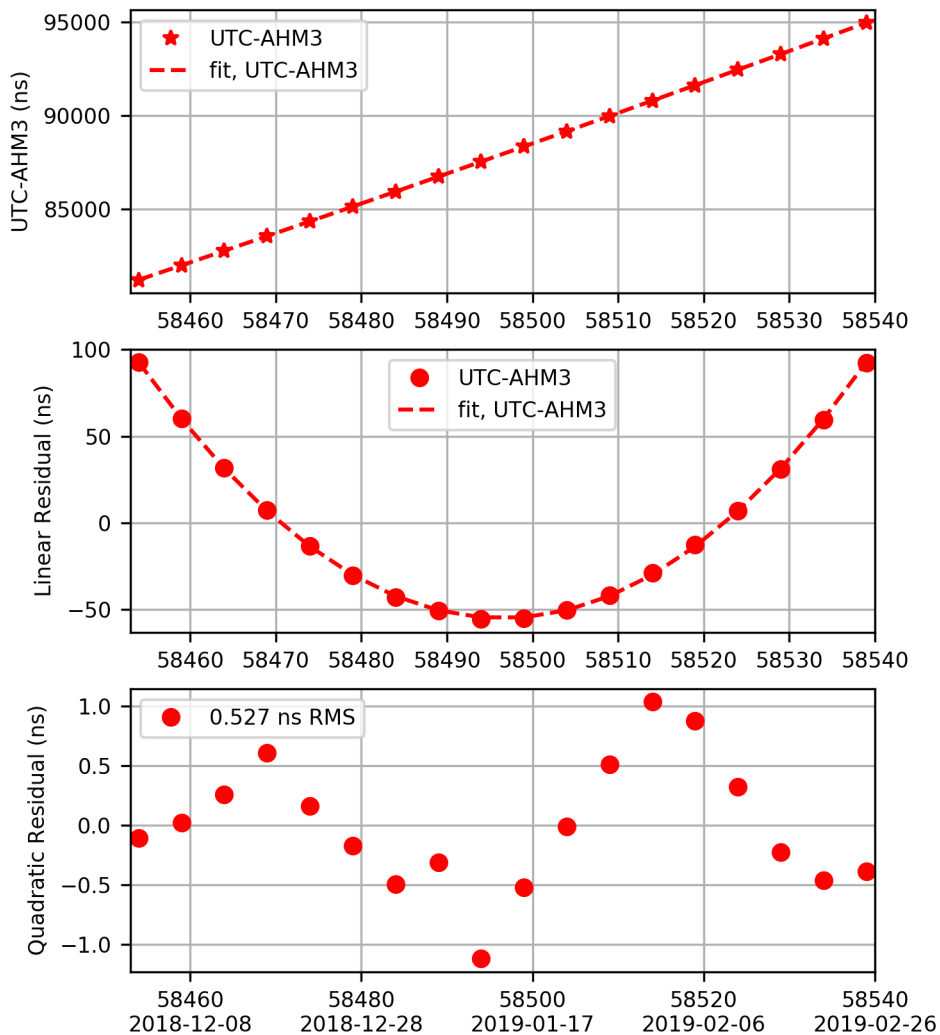


AHM2 Rate and Drift

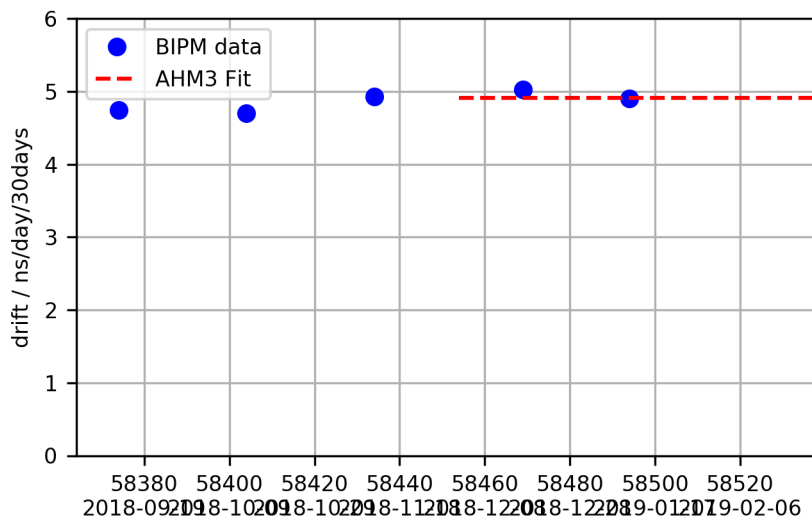
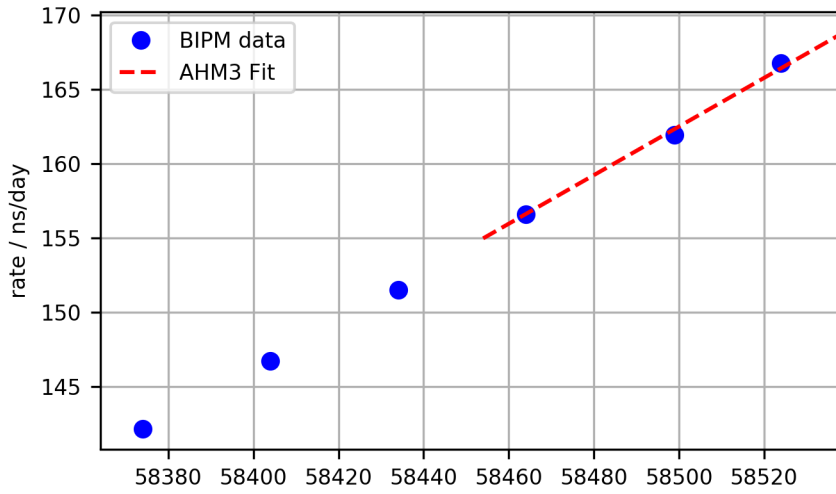


UTC - AHM3 Fit

UTC-AHM3 (2019-03-15 / 58557)
 $x \text{ (ns)} = 94971.287 + 168.875 *d + 0.0818 *d*d$
 $y = -1.95457e-12 + -1.89401e-15 *d$
 $d = (\text{mjd}-\text{mjd0}) \text{ with } \text{mjd0} = 58539$

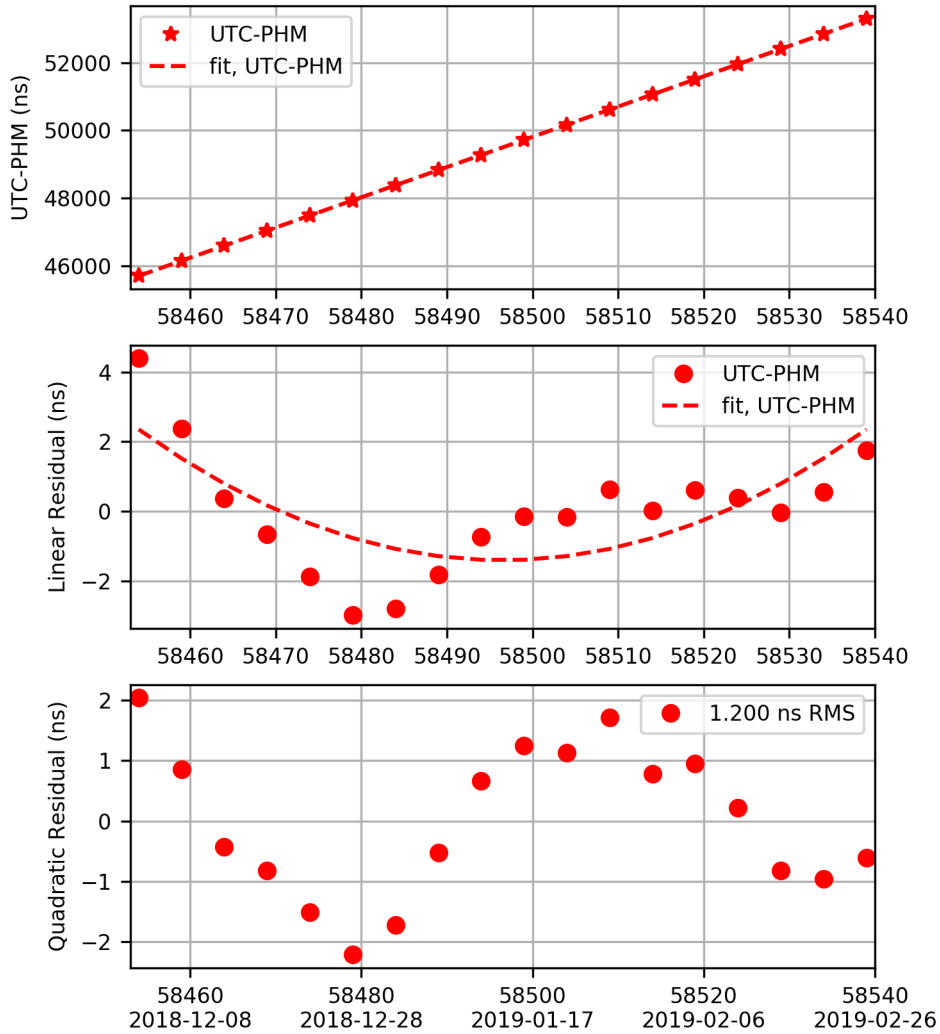


AHM3 Rate and Drift

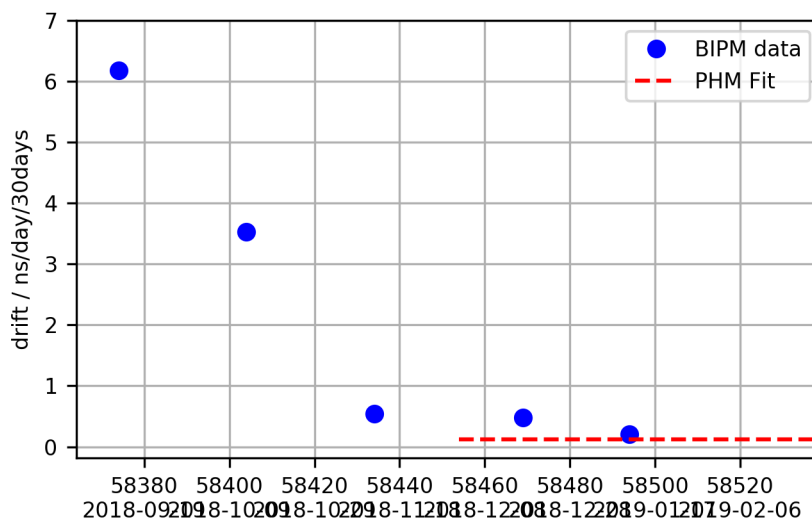
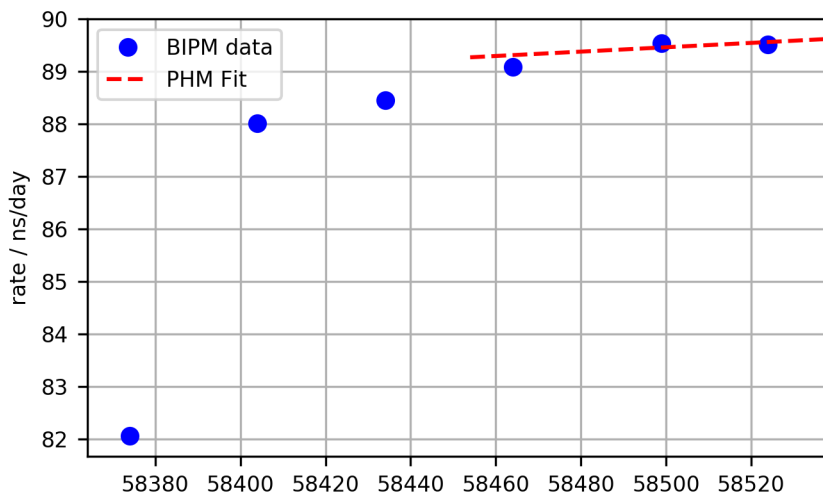


UTC - PHM Fit

UTC-PHM (2019-03-15 / 58557)
 $x \text{ (ns)} = 53301.005 + 89.619 *d + 0.0021 *d*d$
 $y = -1.03726e-12 + -4.8076e-17 *d$
 $d = (\text{mjd}-\text{mjd0}) \text{ with mjd0} = 58539$

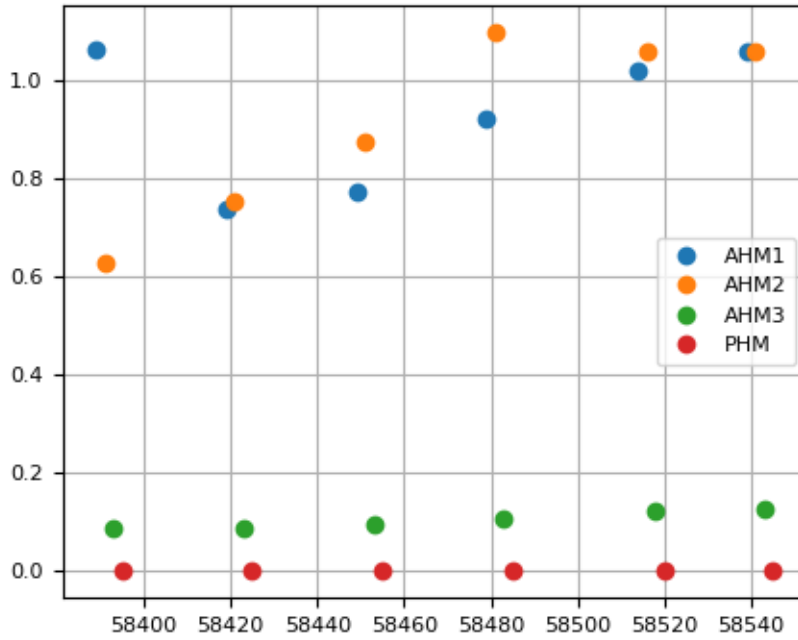


PHM Rate and Drift



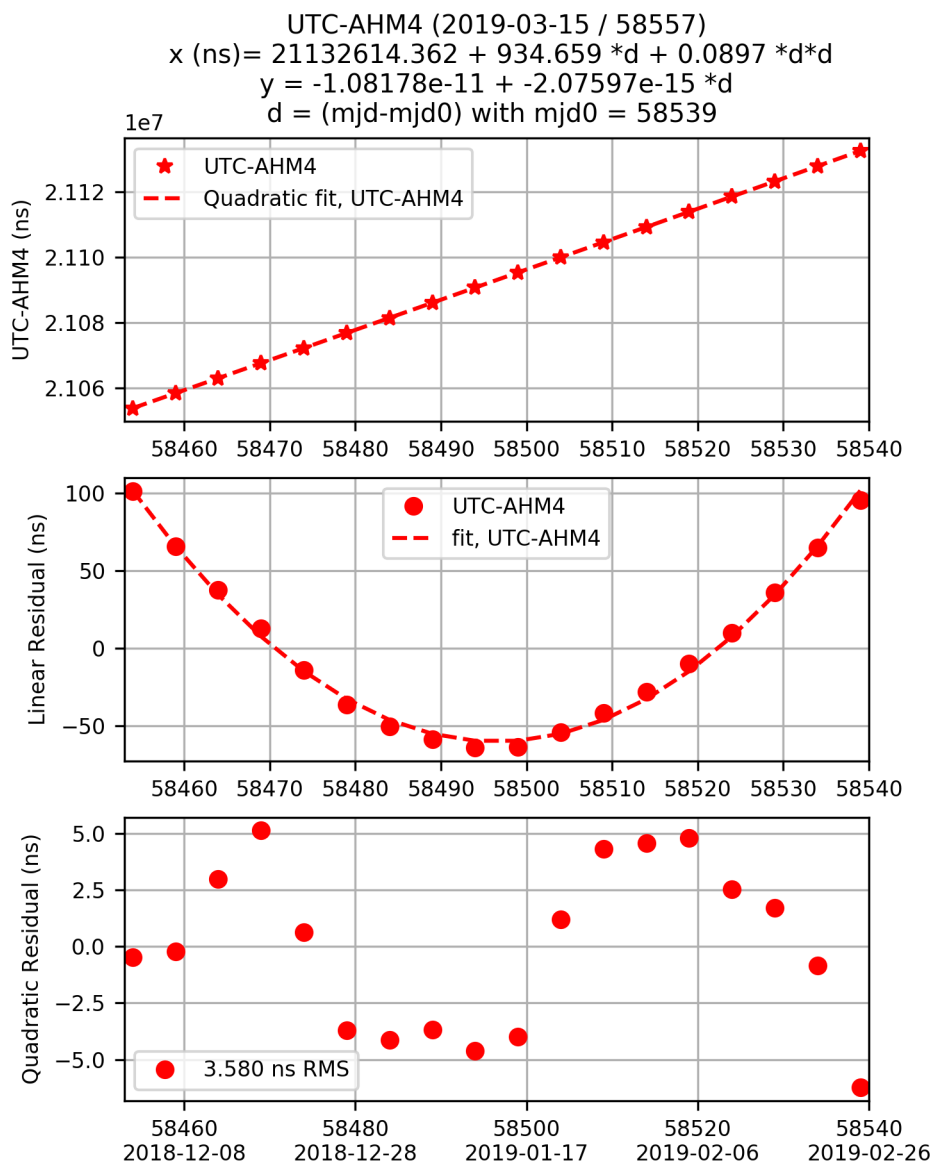
Clock Weights

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



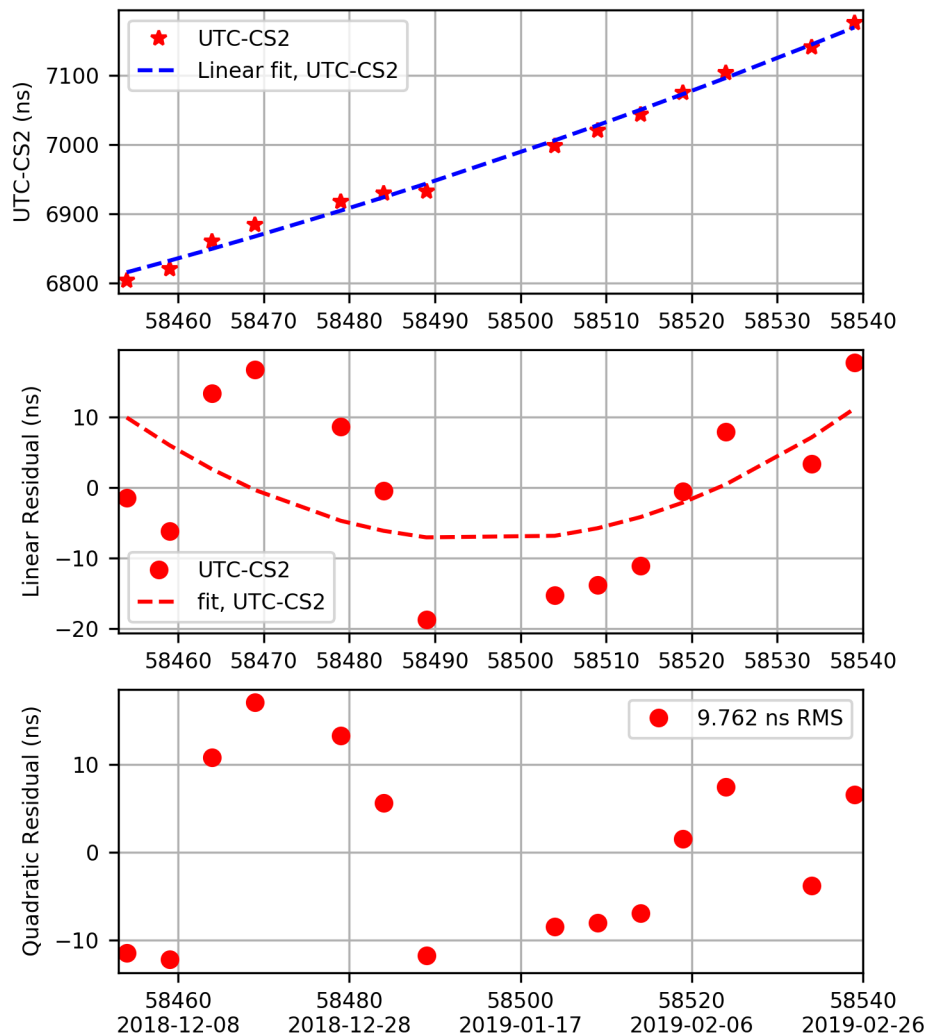
Remote Clocks

Remote Clock: AHM4



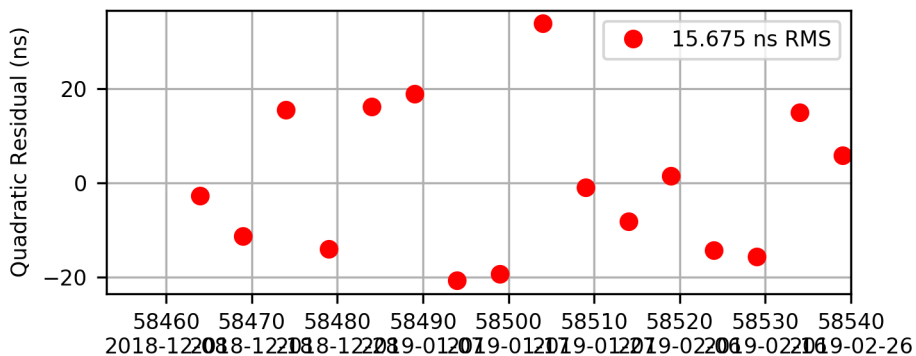
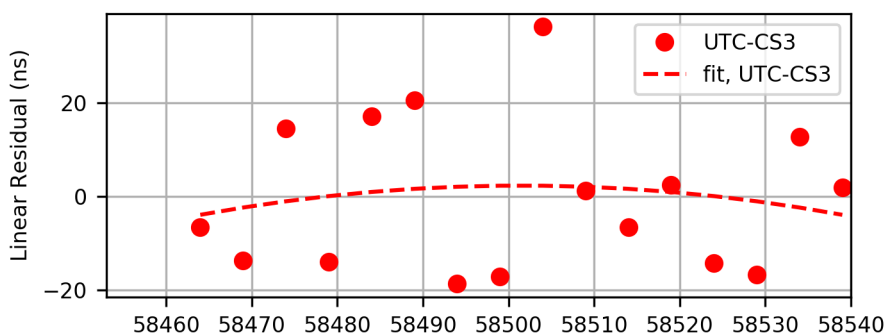
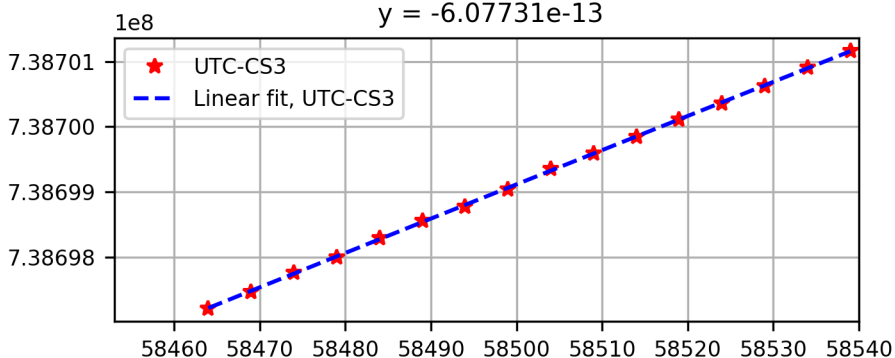
Remote Clock: CS2

UTC-CS2 (2019-03-15 / 58557)
 $x \text{ (ns)} = 7158.592 + 4.155 * d$
 $y = -4.80847e-14$

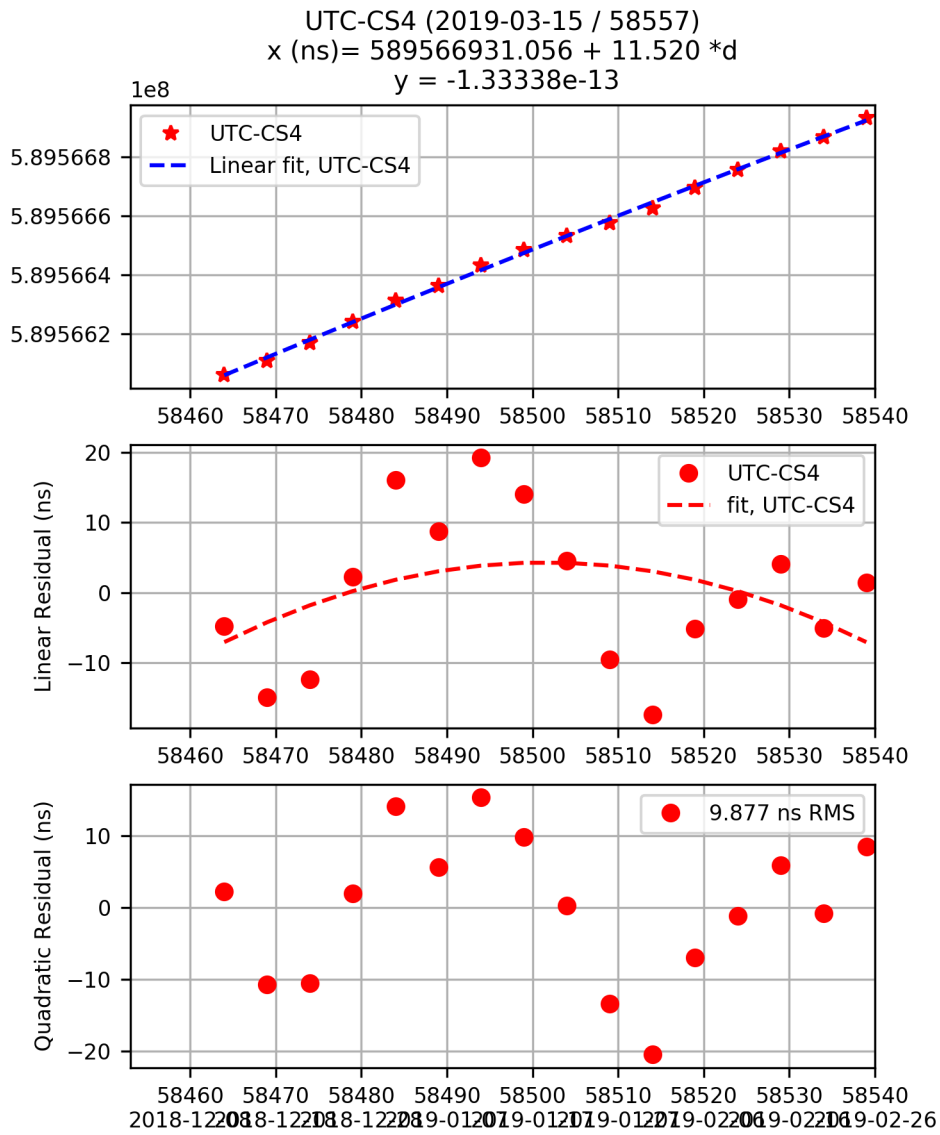


Remote Clock: CS3

UTC-CS3 (2019-03-15 / 58557)
 $x \text{ (ns)} = 738701161.507 + 52.508 * d$
 $y = -6.07731e-13$



Remote Clock: CS4



End of Bulletin.