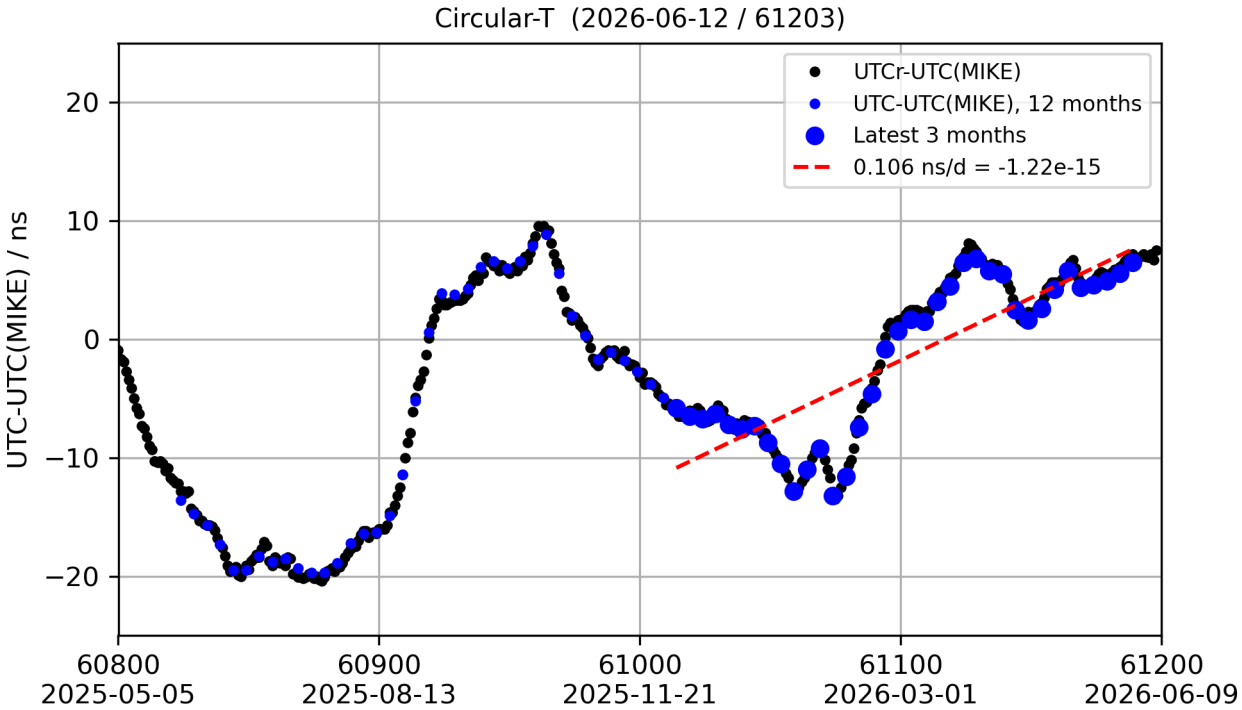
UTC(MIKE) Atomic Bulletin 2026-06

VTT MIKES Metrology monthly Time & Frequency bulletin.
Comments and questions to: time "at" vtt.fi
Date of publication: 2026-06-12 (61203)
Circular-T issues used for analysis: 456, 457, 458, 459, 460, 461,
First day of analysis interval: 2025-12-05 (61014)
Last day of analysis interval: 2026-05-29 (61189)
ClockData for analysis: CDMI__25.12_, CDMI__26.01_, CDMI__26.02_, CDMI__26.03_, CDMI__26.04_, CDMI__26.05_,
The Atomic Bulletin is archived at: https://monitor.mikes.fi/ftp/atomic_bulletin/

Notes

60845 (2025-06-19) AB2025-06: fit to 6 months. set steering to +20ns/60days = -3.8e-15.
60871 (2025-07-15) AB2025-07: keep steering +20ns/60days = -3.8e-15.
60898 (2025-08-11) AB2025-08: keep steering +20ns/60days = -3.8e-15.
60919 (2025-09-01) set steering to zero.
60923 (2025-09-05) set steering +8e-15.
60979 (2025-10-31) AHM3 frequency adjustment +4e-12 at 13:52 UTC.
60983 (2025-11-04) High temperature in maser room.
61041 (2026-01-01) Report MHM1 (1412084) ClockData to BIPM
61083 (2026-02-12) AB2026-02: analyze MHM1, AHM3 rebooted 2026-02-02
61110 (2026-03-11) AB2026-03: 4 month analysis interval. First MHM1 rate value.
61175 (2026-05-15) AB2026-05: 6 month analysis interval.

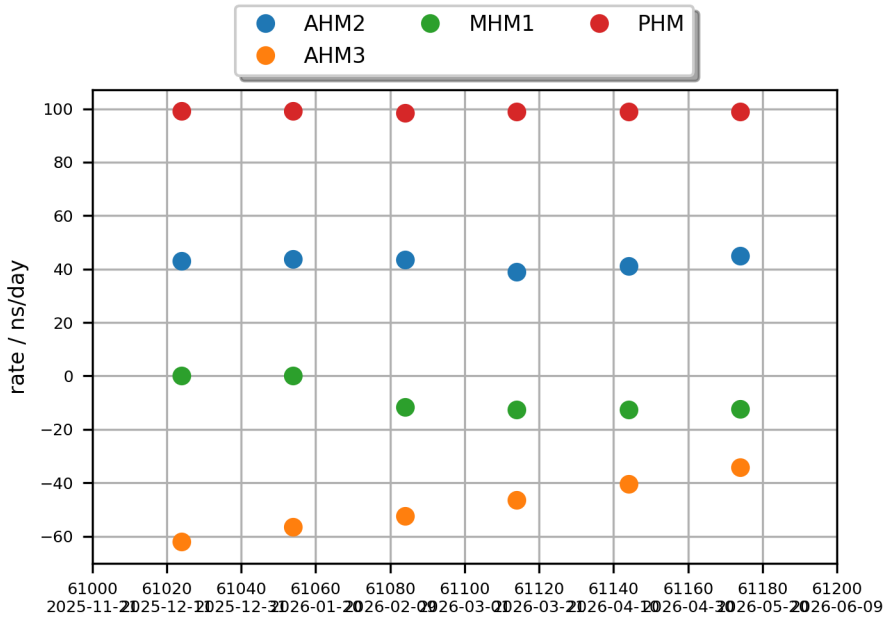
UTC-UTC(MIKE) as reported in Circular-T



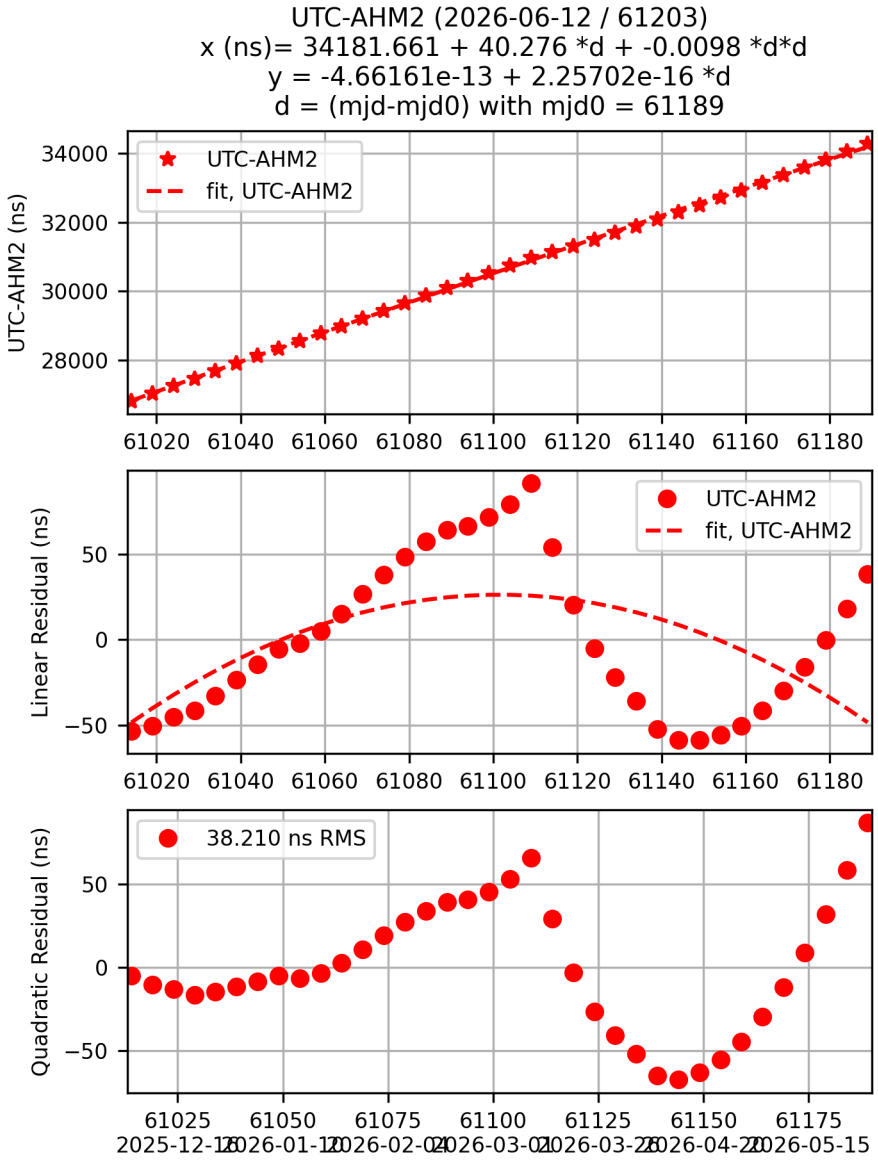
UTC-UTC(MIKE) is available on 5 day intervals on MJD dates ending with 4 or 9. Values are published monthly by the BIPM in Circular-T.

Clock Rates - Summary

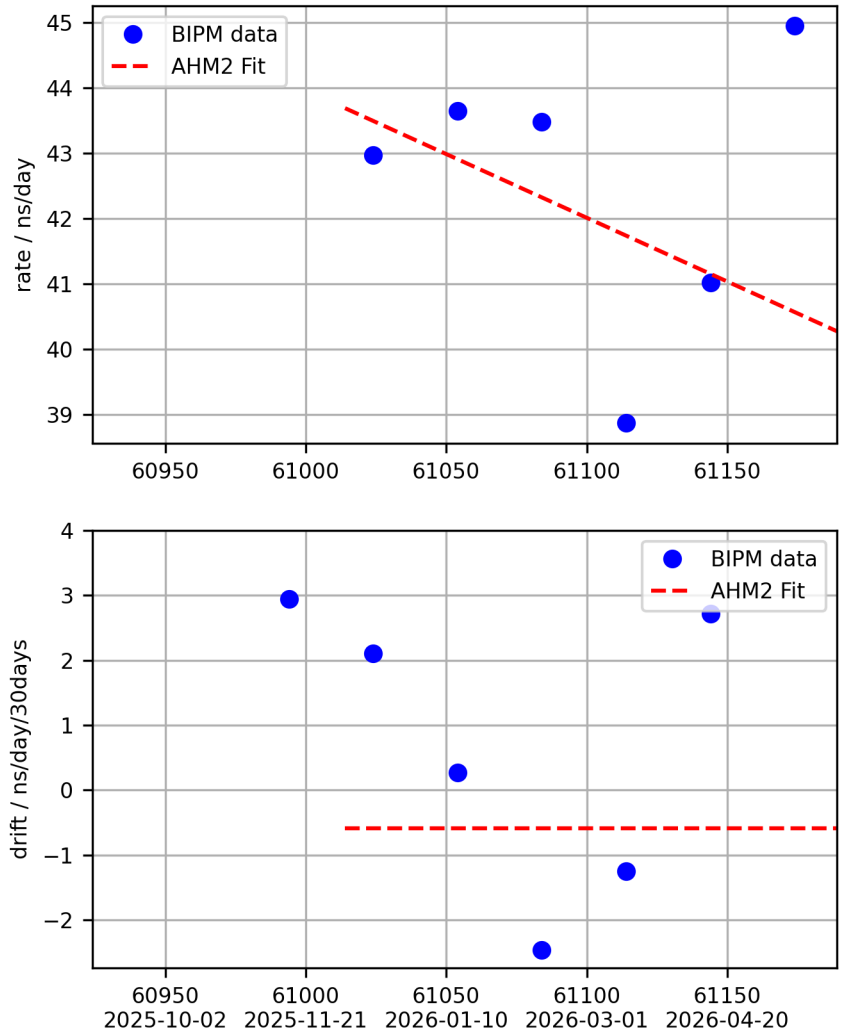
Clock rates as reported by the BIPM in the monthly r-report.



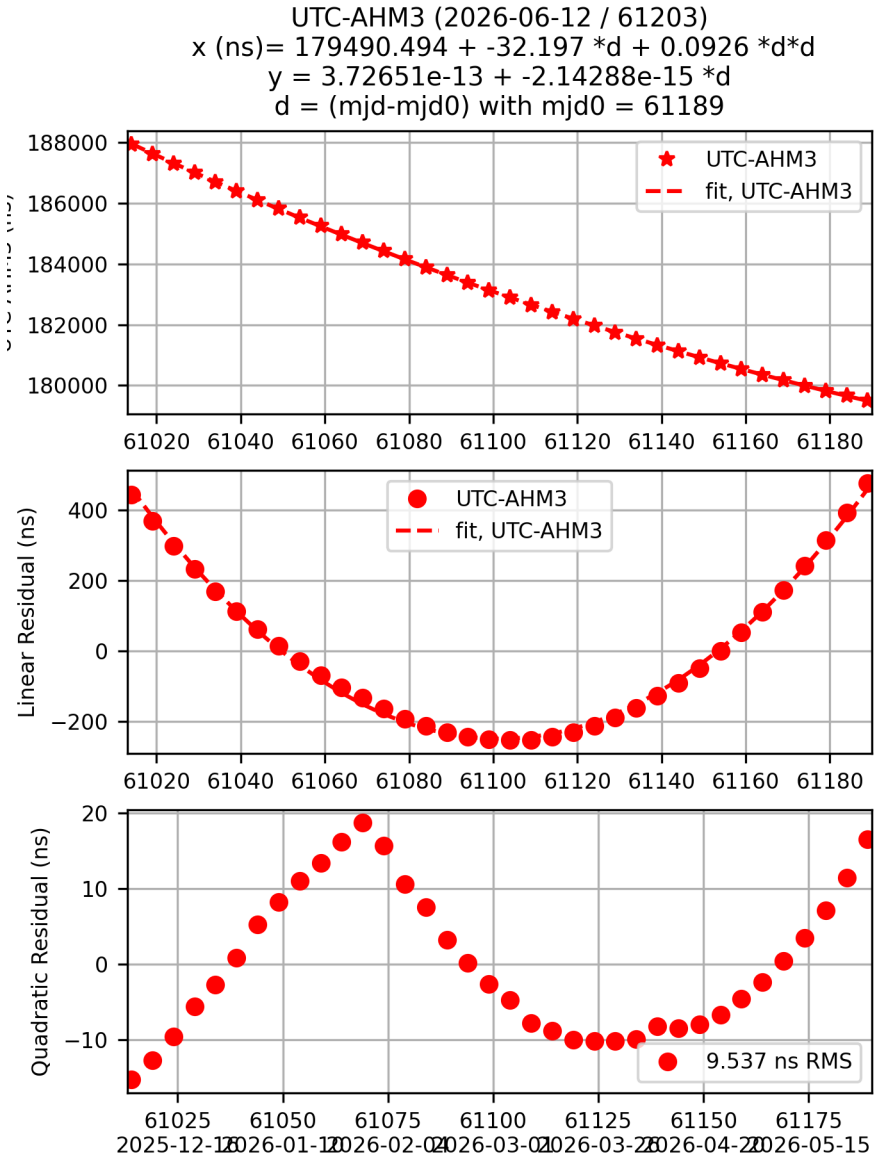
UTC - AHM2 Fit


UTC-AHM2 (2026-06-12 / 61203)
x (ns)= 34181.661 + 40.276 *d + -0.0098 *d*d
y = -4.66161e-13 + 2.25702e-16 *d
d = (mjd-mjd0) with mjd0 = 61189
UTC-AHM2
fit, UTC-AHM2
UTC-AHM2 (ns)
Linear Residual (ns)
38.210 ns RMS
Quadratic Residual (ns)
61020 61040 61060 61080 61100 61120 61140 61160 61180
61025 61050 61075 61100 61125 61150 61175
2025-12-18 2026-01-12 2026-02-04 2026-03-01 2026-03-25 2026-04-20 2026-05-15

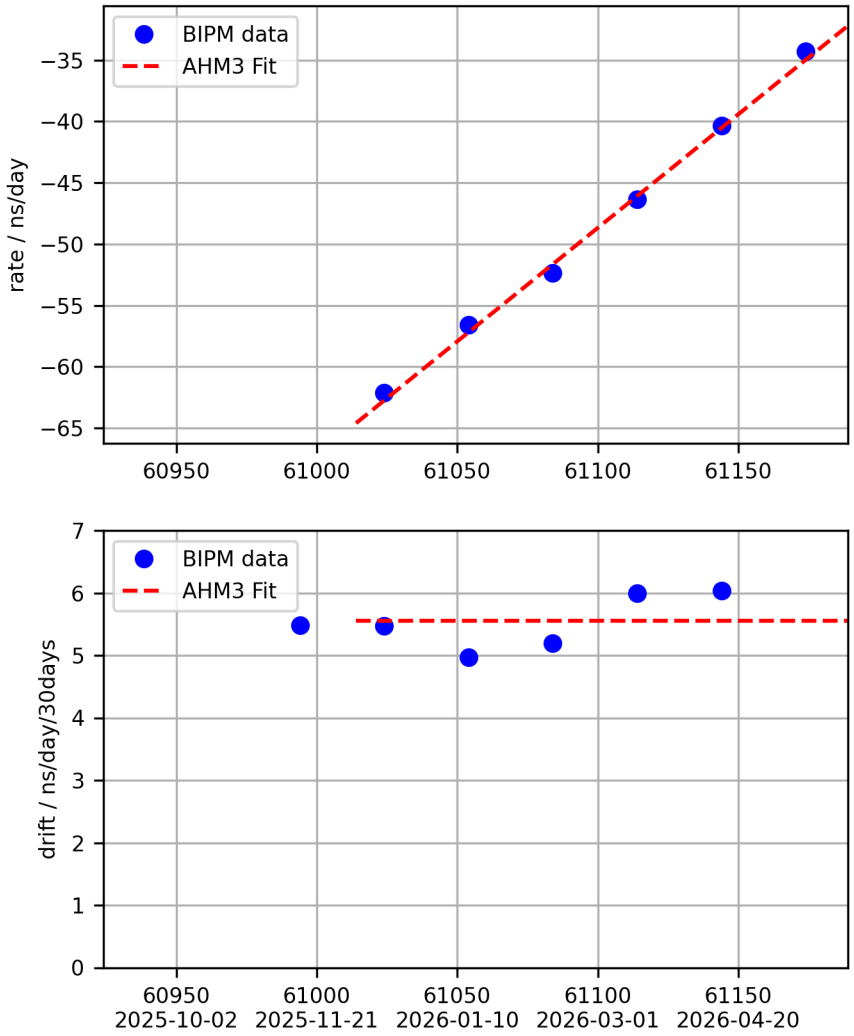
AHM2 Rate and Drift



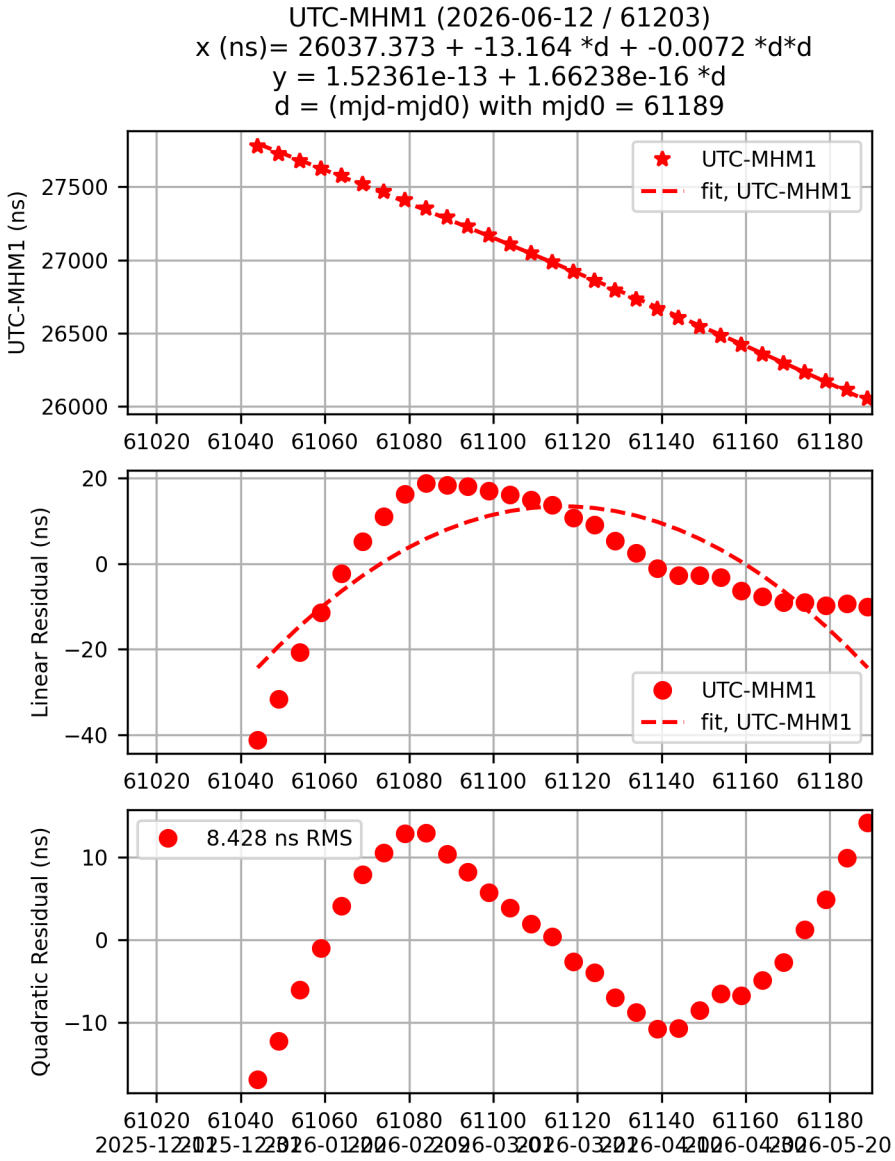
UTC - AHM3 Fit


UTC-AHM3 (2026-06-12 / 61203)
x (ns)= 179490.494 + -32.197 *d + 0.0926 *d*d
y = 3.72651e-13 + -2.14288e-15 *d
d = (mjd-mjd0) with mjd0 = 61189
UTC-AHM3
fit, UTC-AHM3
Linear Residual (ns)
Quadratic Residual (ns)
9.537 ns RMS
2025-12-16
2026-01-12
2026-02-04
2026-03-01
2026-03-26
2026-04-20
2026-05-15

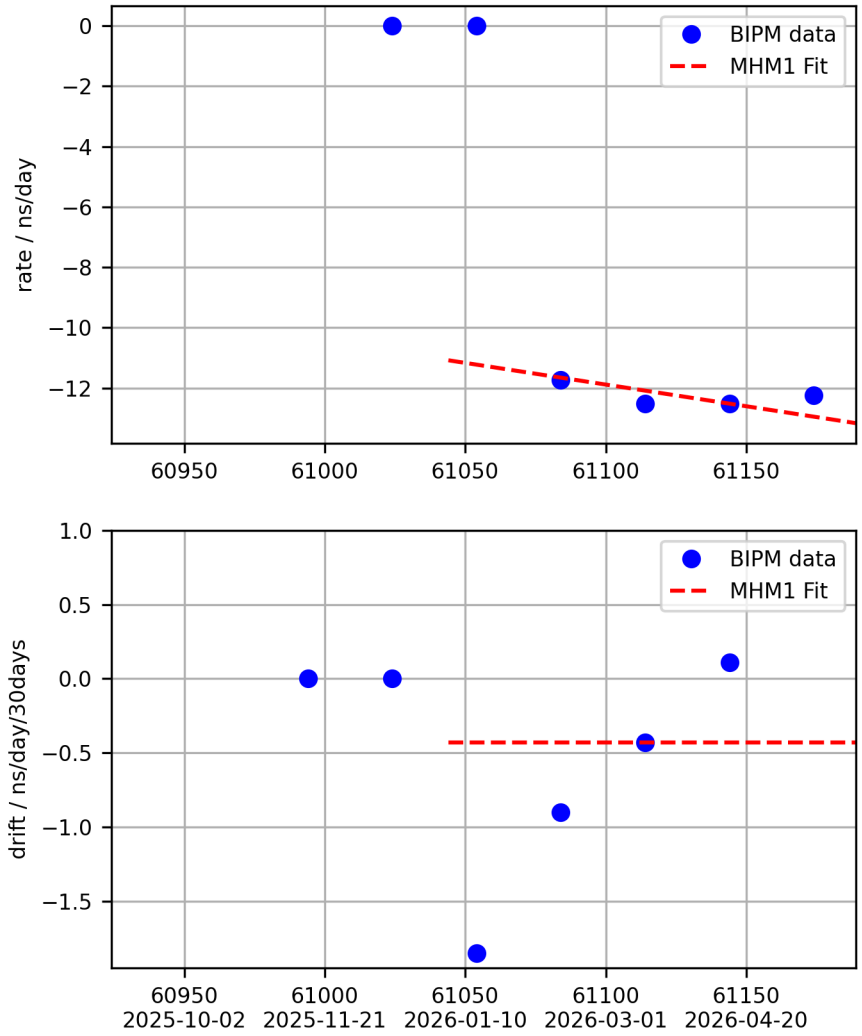
AHM3 Rate and Drift



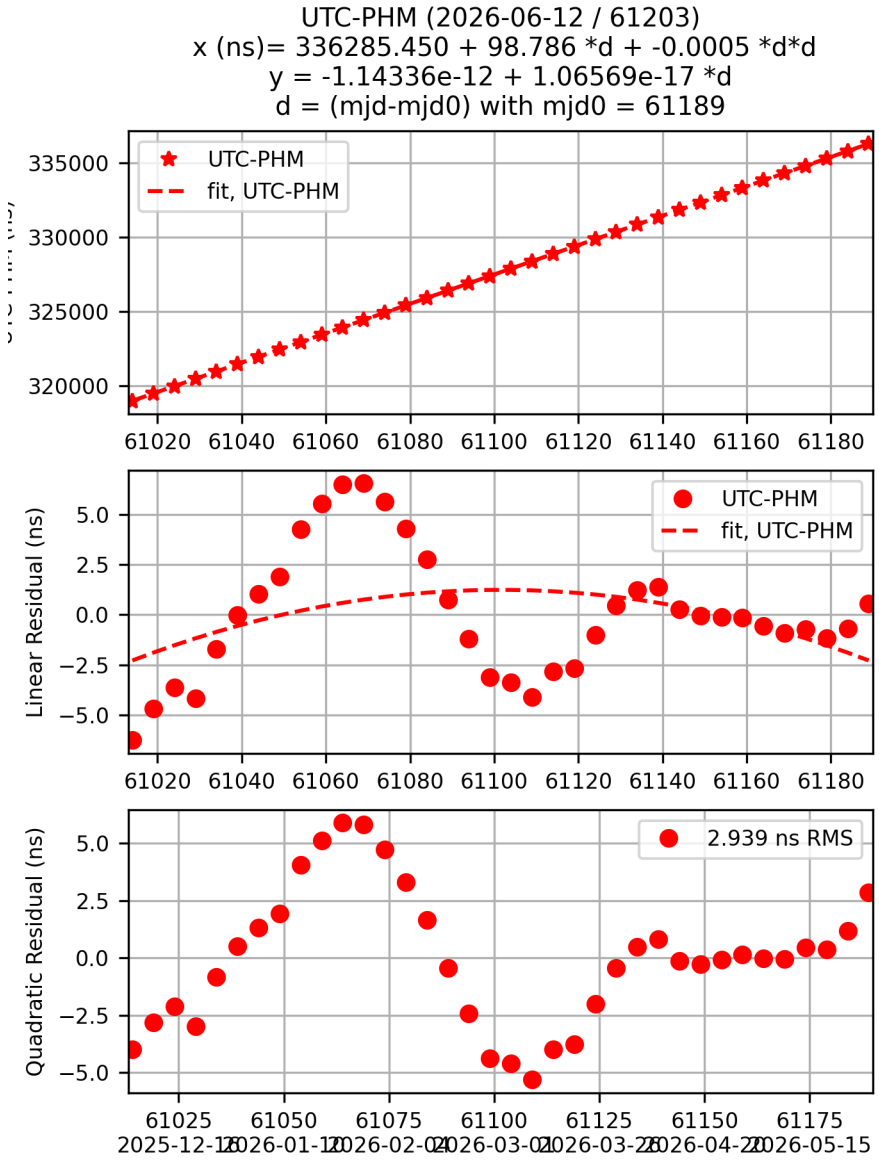
UTC - MHM1 Fit


UTC-MHM1 (2026-06-12 / 61203)
x (ns)= 26037.373 + -13.164 *d + -0.0072 *d*d
y = 1.52361e-13 + 1.66238e-16 *d
d = (mjd-mjd0) with mjd0 = 61189
UTC-MHM1
fit, UTC-MHM1
UTC-MHM1 (ns)
Linear Residual (ns)
8.428 ns RMS
Quadratic Residual (ns)

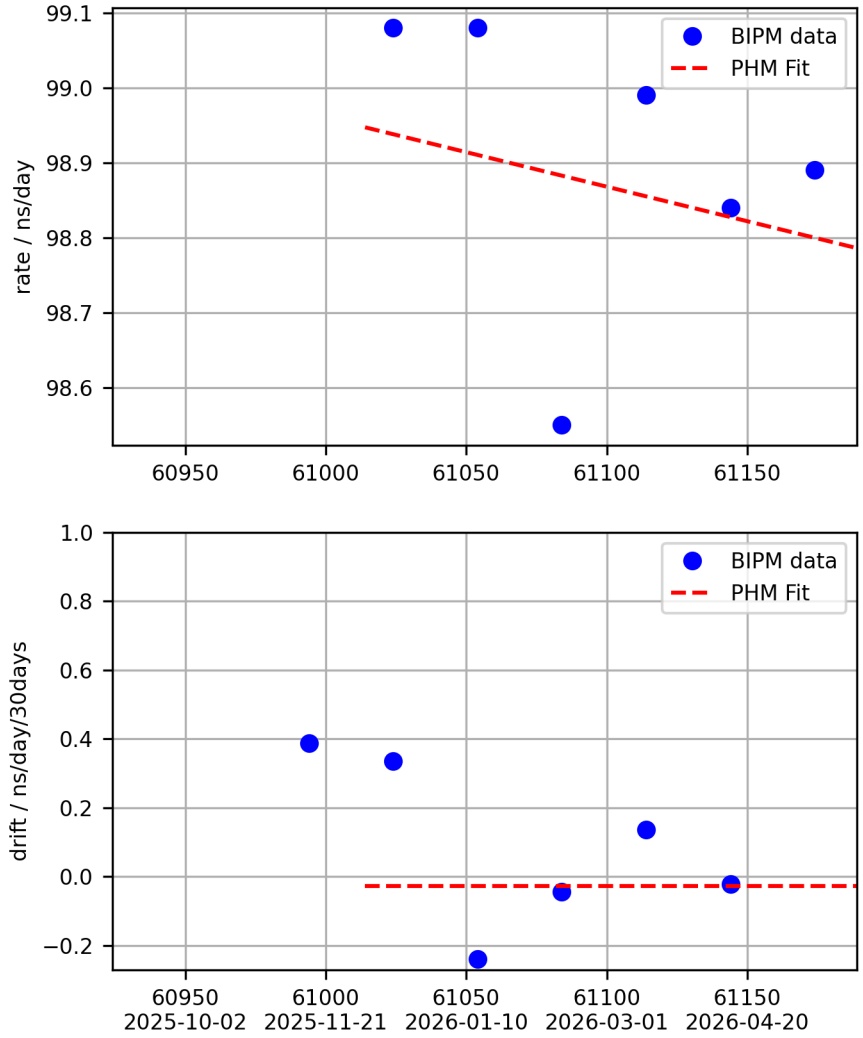
MHM1 Rate and Drift



UTC - PHM Fit

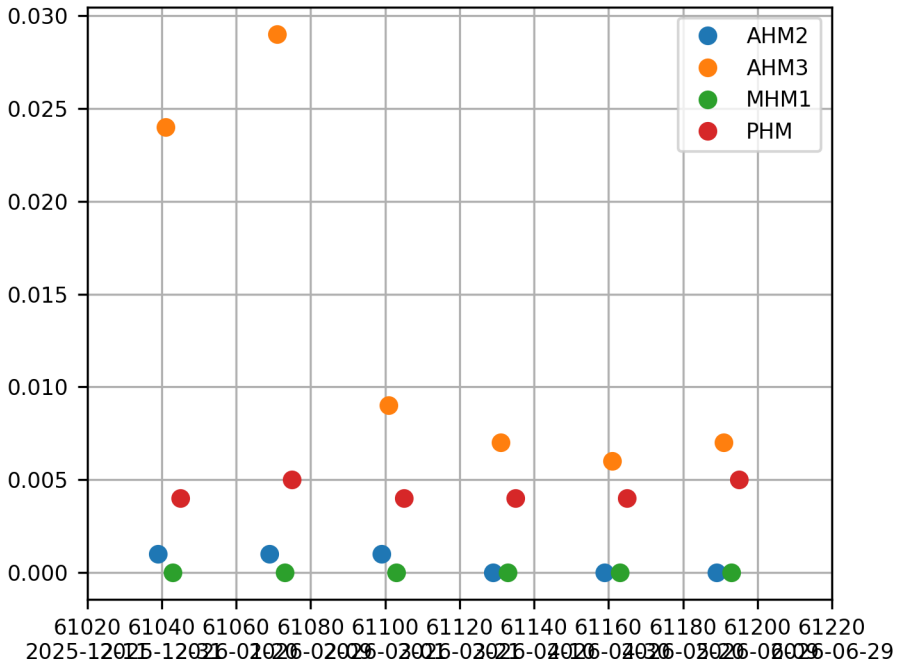

UTC-PHM (2026-06-12 / 61203)
x (ns)= 336285.450 + 98.786 *d + -0.0005 *d*d
y = -1.14336e-12 + 1.06569e-17 *d
d = (mjd-mjd0) with mjd0 = 61189
UTC-PHM
fit, UTC-PHM
335000
330000
325000
320000
61020
61040
61060
61080
61100
61120
61140
61160
61180
Linear Residual (ns)
5.0
2.5
0.0
−2.5
−5.0
Quadratic Residual (ns)
2.939 ns RMS
61025
61050
61075
61100
61125
61150
61175
2025-12-18
2026-01-12
2026-02-02
2026-03-02
2026-03-22
2026-04-22
2026-05-15

PHM Rate and Drift



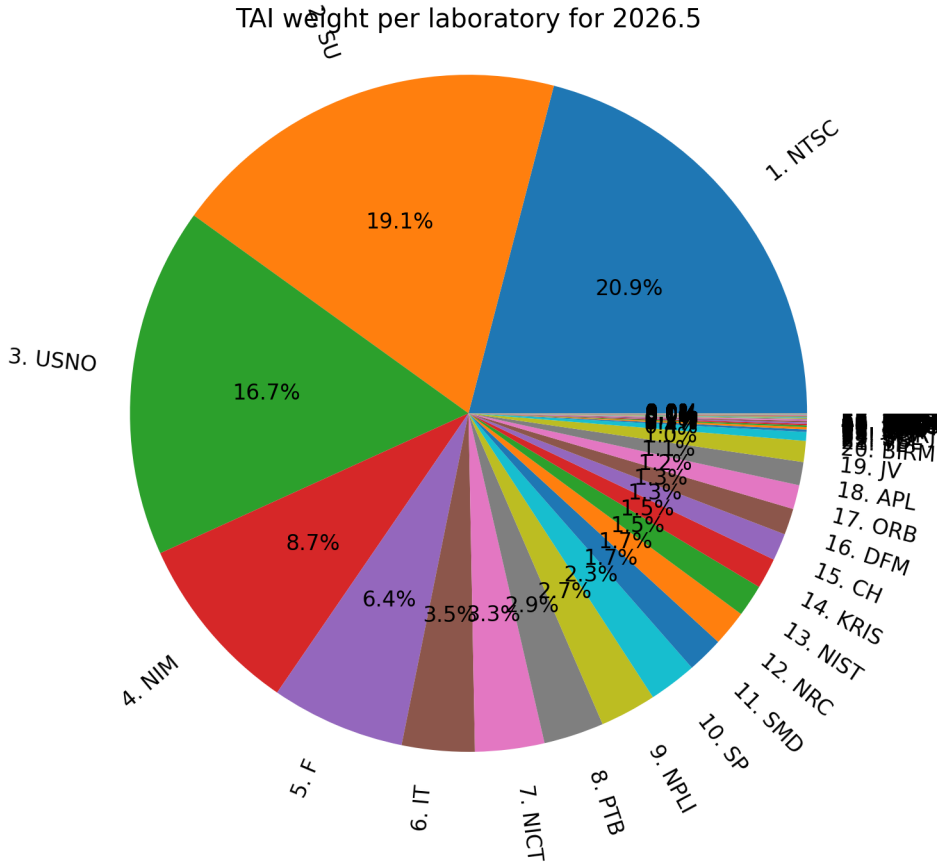
VTT MIKES Clock Weights

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



Clock Weights per Laboratory

Relative TAI Weight per laboratory

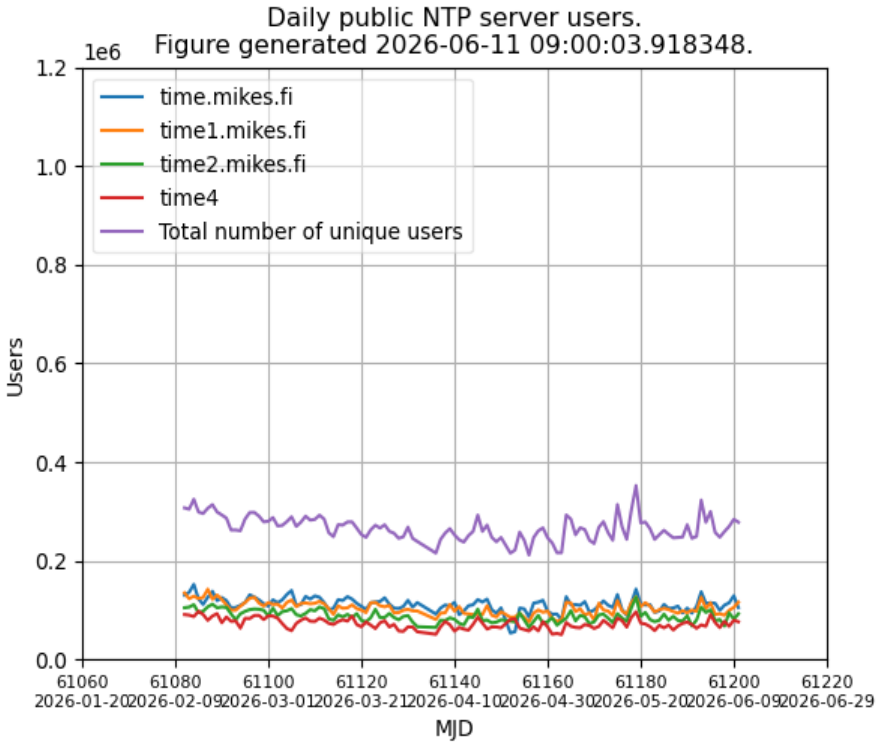


Weight-file for 2026.05
Number of clocks 399
Number of labs 69
Number of clock types 12
Sum of weights per lab 99.995, Sum of weights per clock type 99.995
Weight Clock Type
0.733 35 MICROSEMI 5071A HIGH PERFORMANCE TUBE.
60.553 40 UNSPECIFIED HYDROGEN MASER
31.912 41 HYDROGEN MASER
0.051 36 MICROSEMI 5071A LOW/STANDARD PERFORMANCE TUBE
0.000 18 MICROSEMI Cs 4000
0.002 22 OSCILLOQUARTZ OSA 3230B/3235B
0.047 32 OSCILLOQUARTZ OSA 3300-SHP
0.000 44 Other clocks
0.008 37 OSCILLOQUARTZ OSA 3300
0.012 38 Chengdu Spaceon Electronics Company TA1000
6.670 93 GROUND-STATE HYPERFINETRANSITION OF 87 Rb
0.007 92 GROUND-STATE HYPERFINE TRANSITION OF 133 Cs

Rank	Weight	Lab
1	20.940	NTSC
2	19.121	SU
3	16.718	USNO
4	8.655	NIM
5	6.394	F
6	3.472	IT
7	3.305	NICT
8	2.873	PTB
9	2.690	NPLI
10	2.293	SP
11	1.734	SMD
12	1.698	NRC
13	1.530	NIST
14	1.460	KRIS
15	1.295	CH
16	1.256	DFM
17	1.150	ORB
18	1.107	APL
19	1.003	JV
20	0.420	BIRM
21	0.121	TL
22	0.111	VSL
23	0.080	SG
24	0.073	SCL
25	0.072	ONRJ
26	0.068	ROA
27	0.063	ESA
28	0.037	TP
29	0.032	BEV
30	0.023	JATC
31	0.021	IMBH
32	0.021	KZ
33	0.020	SASO
34	0.020	NPL
35	0.016	DTAG
36	0.013	NIMT
37	0.012	MIKE
38	0.010	AUS
39	0.010	INPL
40	0.008	HKO
41	0.008	MSL

NTP Usage Statistics

Number of unique IPv4 addresses using our public NTP-servers.



End of Bulletin.