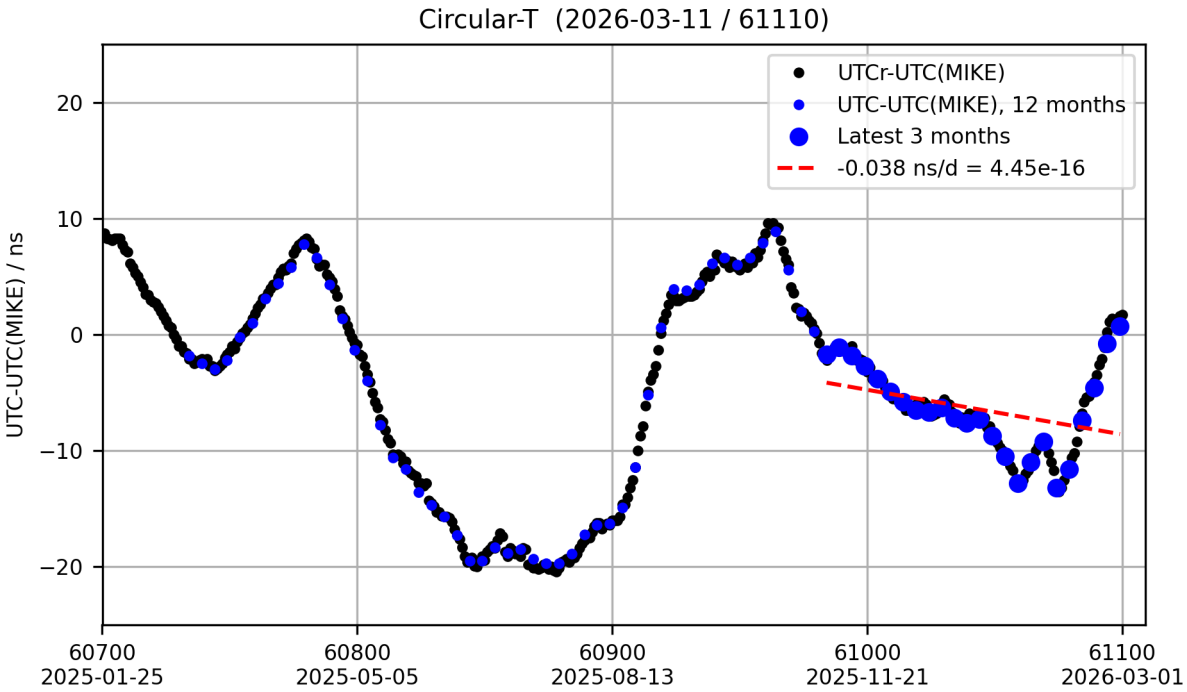
UTC(MIKE) Atomic Bulletin 2026-03

VTT MIKES Metrology monthly Time & Frequency bulletin.
Comments and questions to: time "at" vtt.fi
Date of publication: 2026-03-11 (61110)
Circular-T issues used for analysis: 455, 456, 457, 458,
First day of analysis interval: 2025-11-05 (60984)
Last day of analysis interval: 2026-02-28 (61099)
ClockData for analysis: CDMI__25.11_, CDMI__25.12_, CDMI__26.01_, CDMI__26.02_,
The Atomic Bulletin is archived at: https://monitor.mikes.fi/ftp/atomic_bulletin/

Notes

60536 (2024-08-14) AB2024-08: set steering to zero.
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.

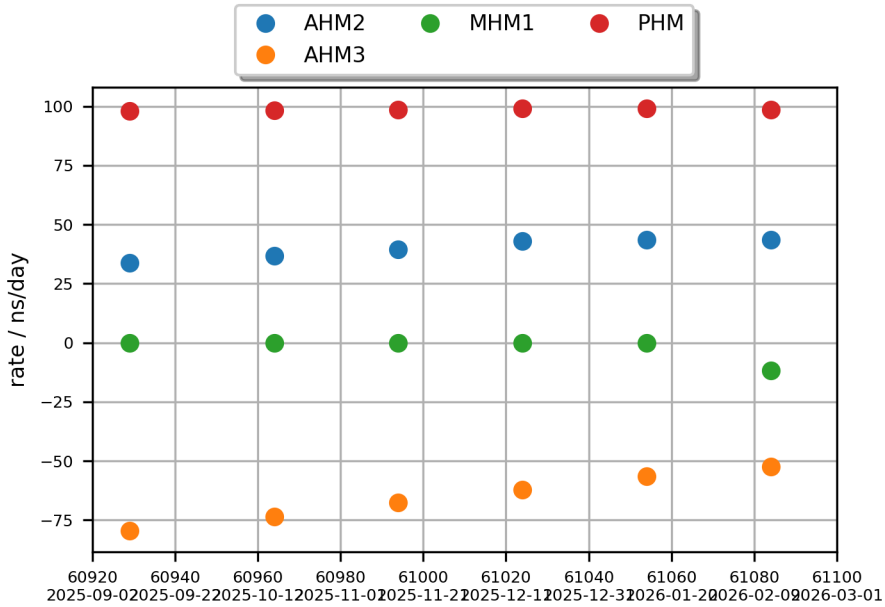
UTC-UTC(MIKE) as reported in Circular-T



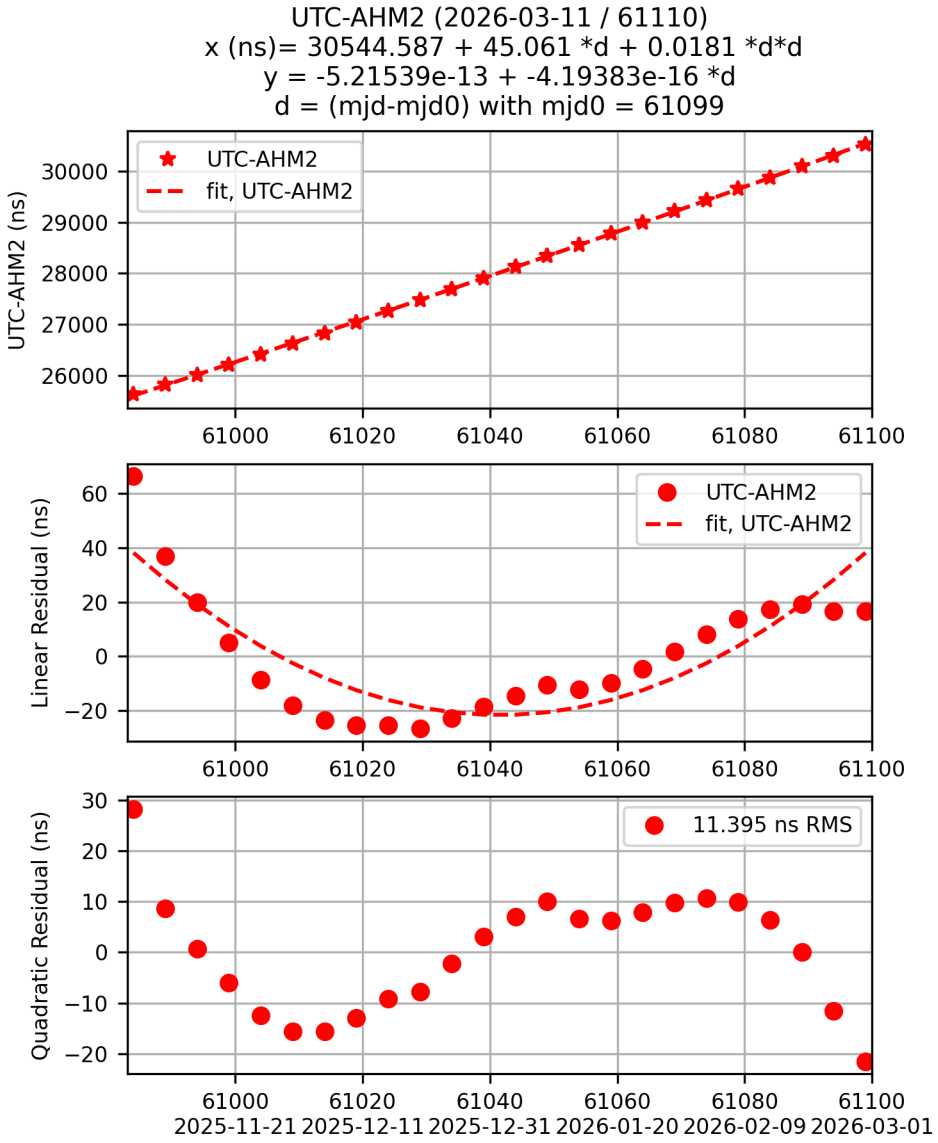
UTC-UTC(MIKE) is available on 5 day intervals on MJD dates ending with 4 or 9. Values are published monthly by the BIPM in Circular-T.

Clock Rates - Summary

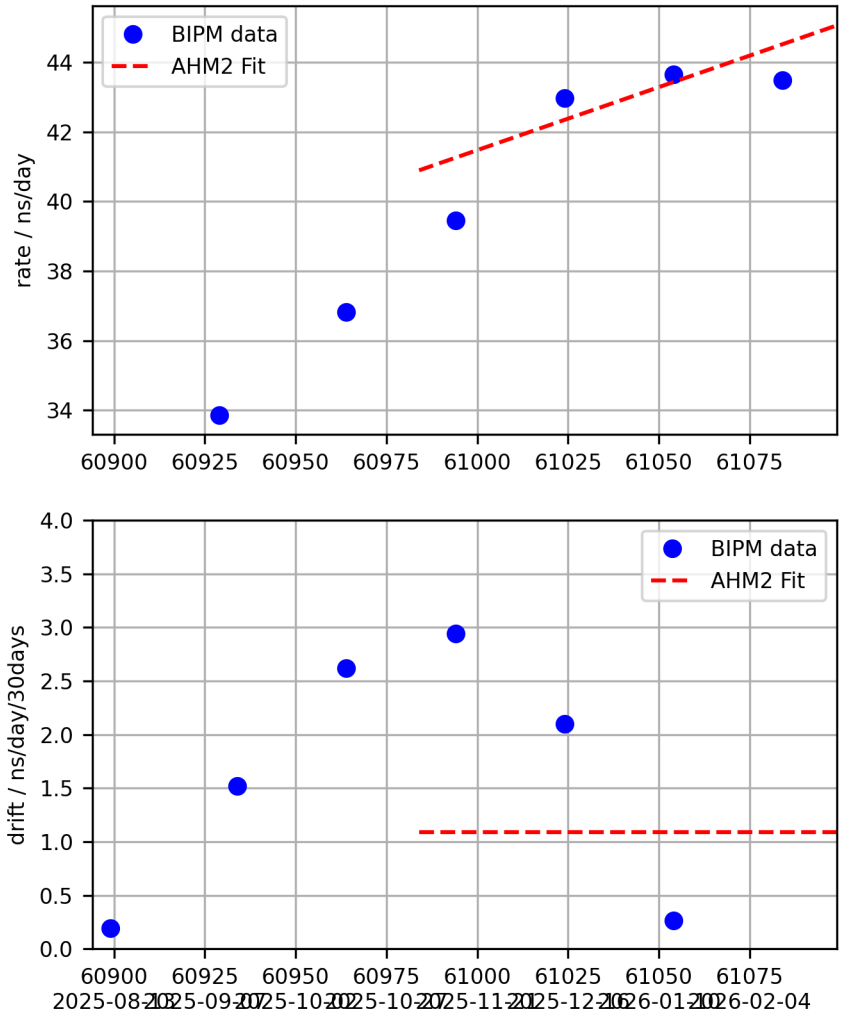
Clock rates as reported by the BIPM in the monthly r-report.



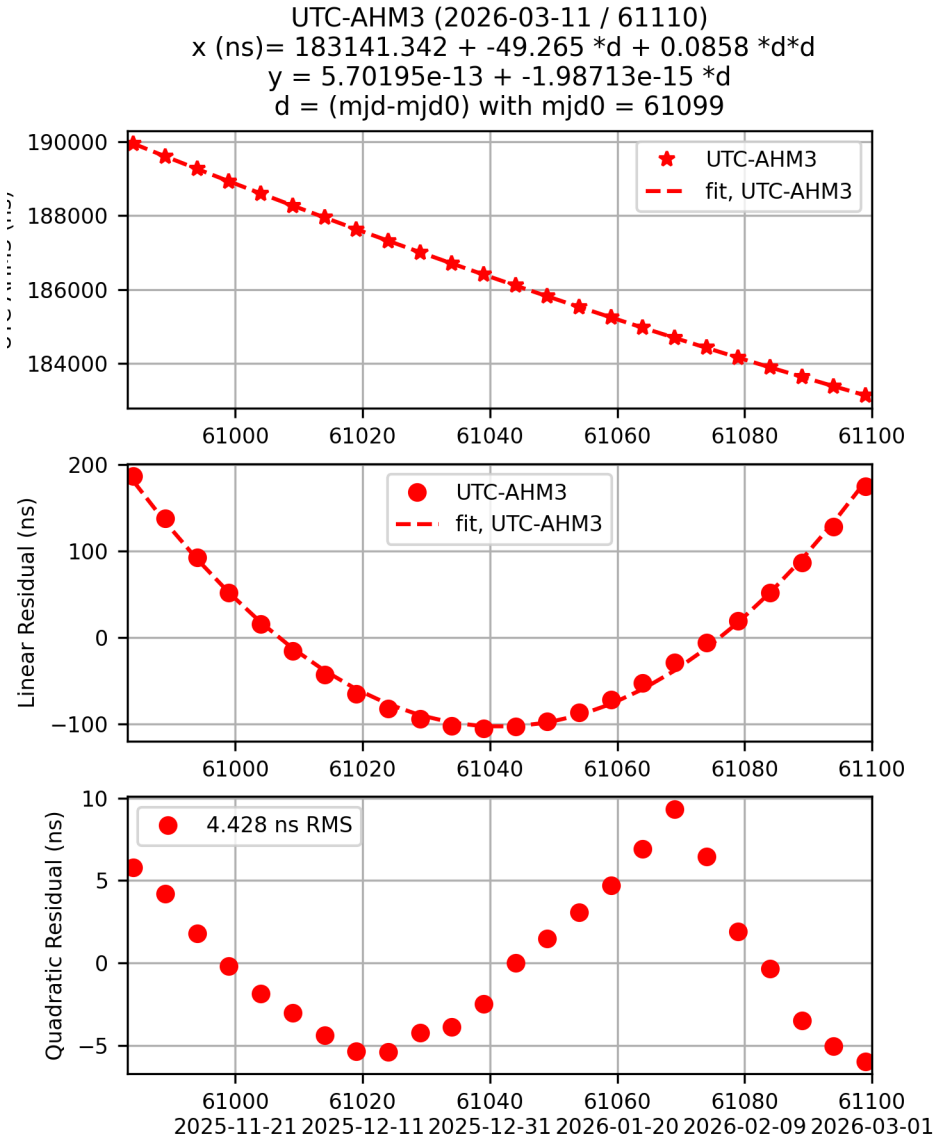
UTC - AHM2 Fit


UTC-AHM2 (2026-03-11 / 61110)
x (ns)= 30544.587 + 45.061 *d + 0.0181 *d*d
y = -5.21539e-13 + -4.19383e-16 *d
d = (mjd-mjd0) with mjd0 = 61099
UTC-AHM2
fit, UTC-AHM2
UTC-AHM2 (ns)
Linear Residual (ns)
11.395 ns RMS
Quadratic Residual (ns)
61000
61020
61040
61060
61080
61100
2025-11-21
2025-12-11
2025-12-31
2026-01-20
2026-02-09
2026-03-01

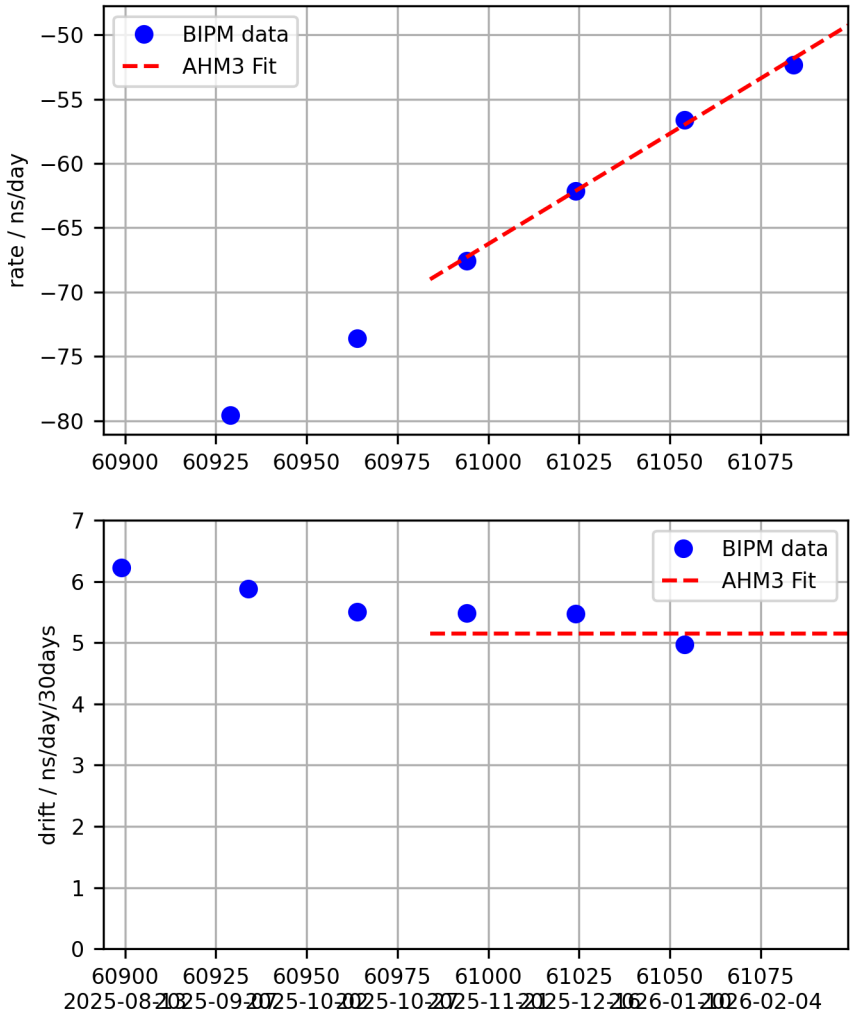
AHM2 Rate and Drift



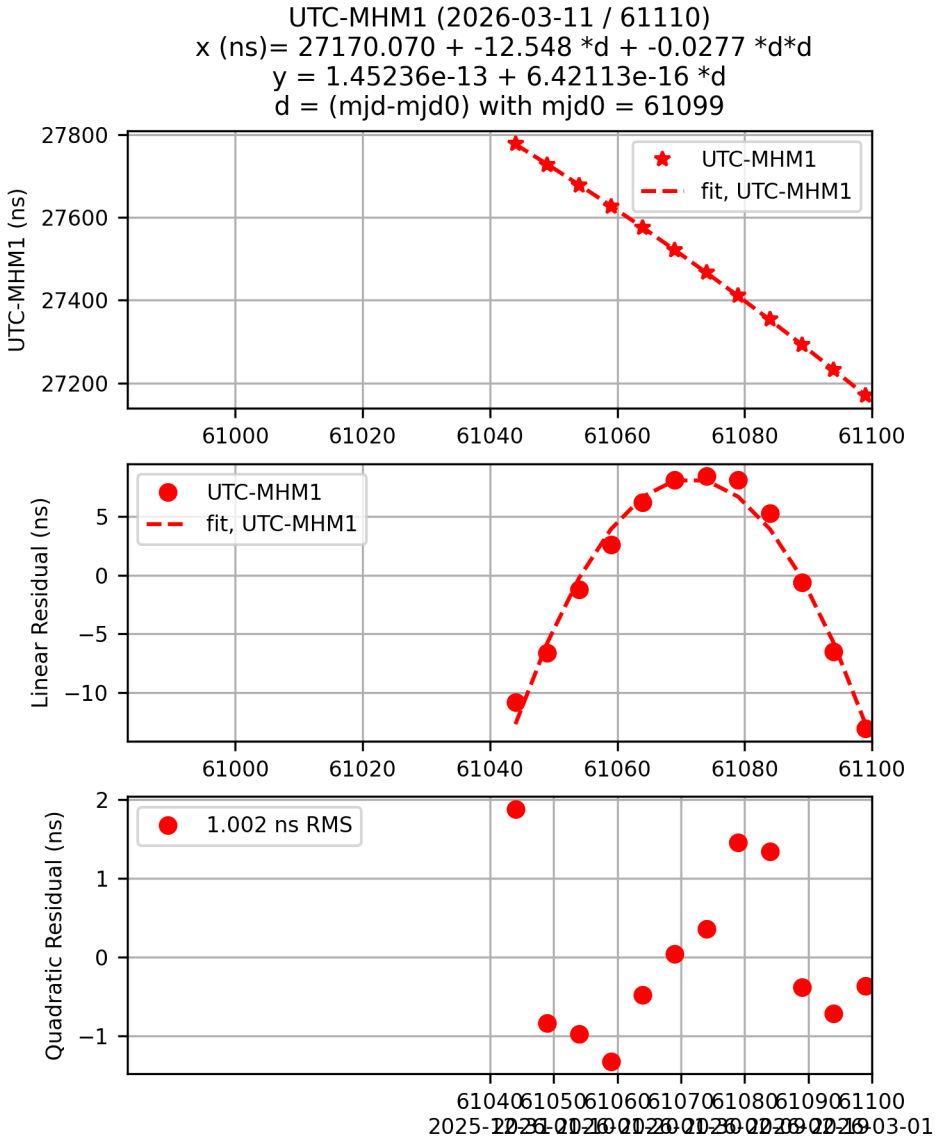
UTC - AHM3 Fit


UTC-AHM3 (2026-03-11 / 61110)
x (ns)= 183141.342 + -49.265 *d + 0.0858 *d*d
y = 5.70195e-13 + -1.98713e-15 *d
d = (mjd-mjd0) with mjd0 = 61099
UTC-AHM3
fit, UTC-AHM3
Linear Residual (ns)
4.428 ns RMS
Quadratic Residual (ns)
61000
61020
61040
61060
61080
61100
2025-11-21
2025-12-11
2025-12-31
2026-01-20
2026-02-09
2026-03-01

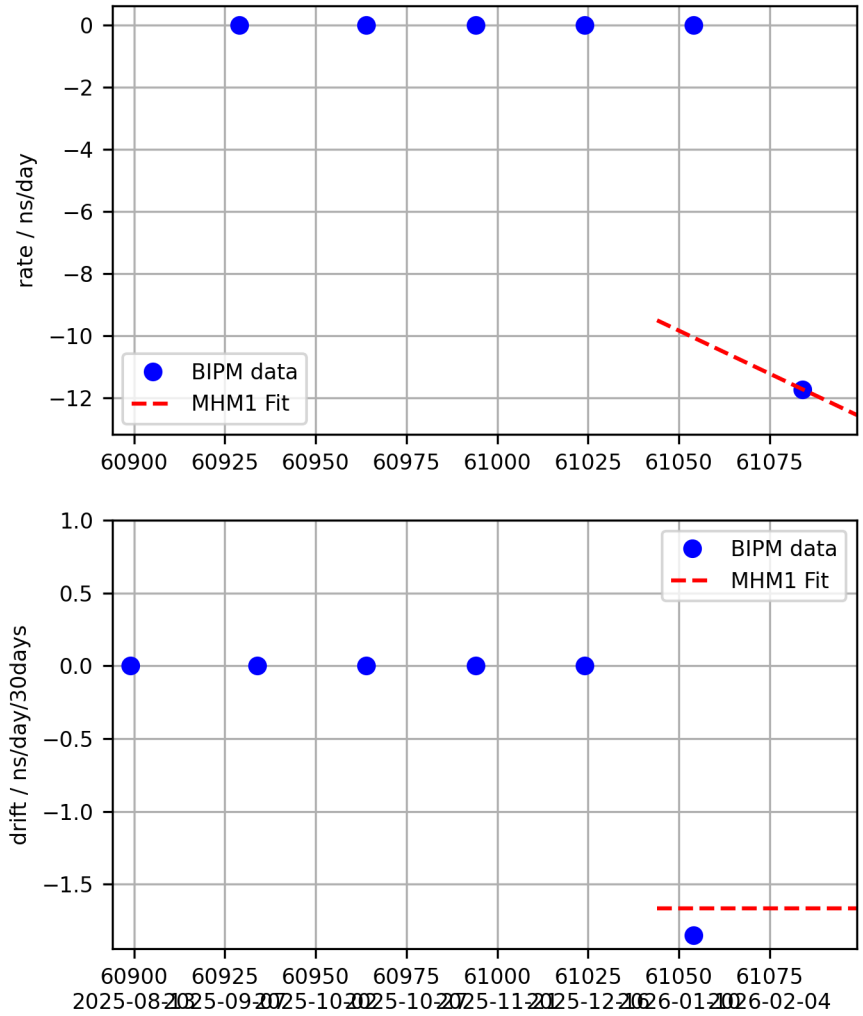
AHM3 Rate and Drift



UTC - MHM1 Fit

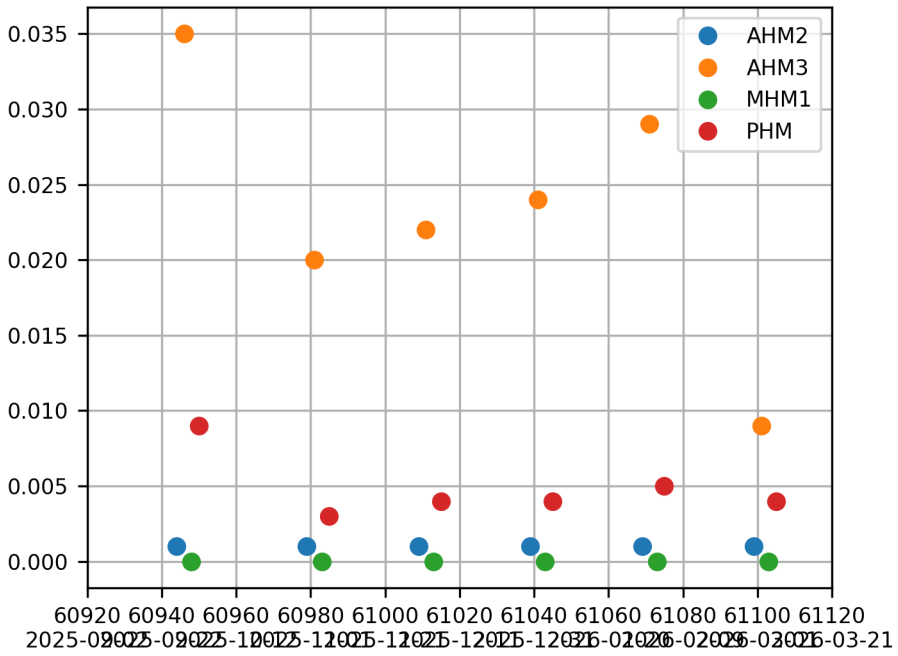

UTC-MHM1 (2026-03-11 / 61110)
x (ns)= 27170.070 + -12.548 *d + -0.0277 *d*d
y = 1.45236e-13 + 6.42113e-16 *d
d = (mjd-mjd0) with mjd0 = 61099
UTC-MHM1 (ns)
UTC-MHM1
fit, UTC-MHM1
Linear Residual (ns)
Quadratic Residual (ns)
1.002 ns RMS
2025-03-01

MHM1 Rate and Drift



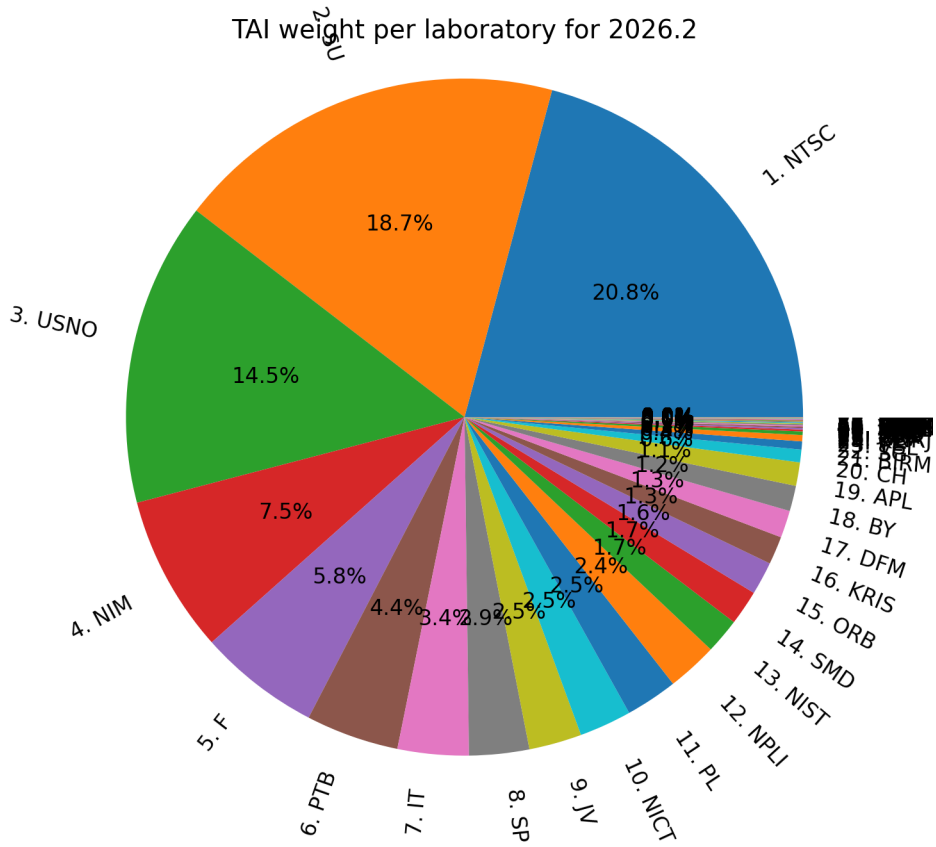
VTT MIKES Clock Weights

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

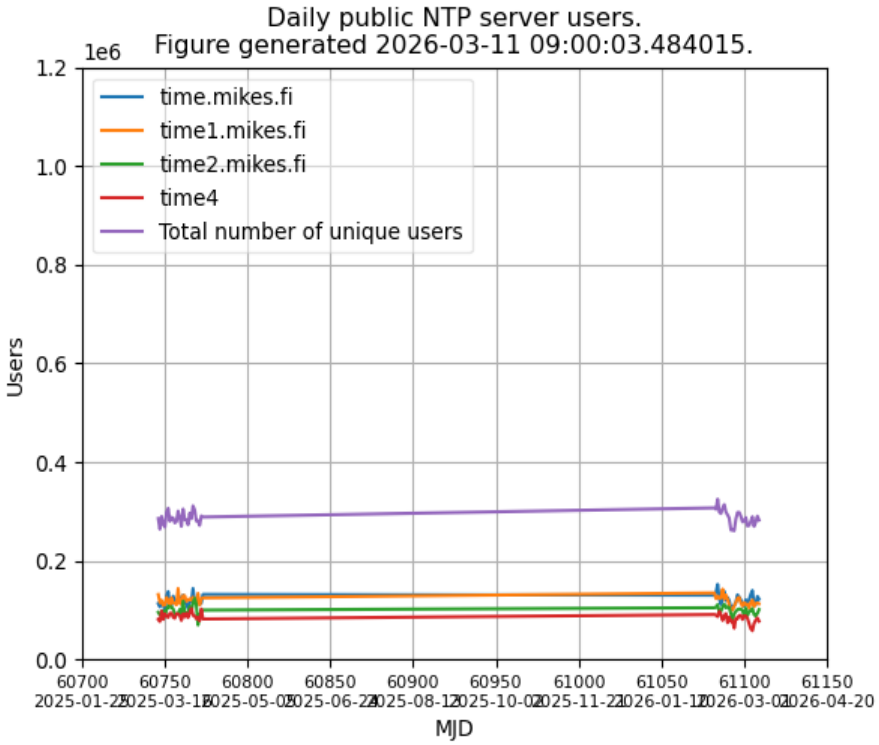


Weight-file for 2026.02
Number of clocks 429
Number of labs 71
Number of clock types 13
Sum of weights per lab 100.009, Sum of weights per clock type 100.009
Weight Clock Type
0.765 35 MICROSEMI 5071A HIGH PERFORMANCE TUBE.
58.655 40 UNSPECIFIED HYDROGEN MASER
34.444 41 HYDROGEN MASER
0.052 36 MICROSEMI 5071A LOW/STANDARD PERFORMANCE TUBE
0.000 18 MICROSEMI Cs 4000
0.000 22 OSCILLOQUARTZ OSA 3230B/3235B
0.041 32 OSCILLOQUARTZ OSA 3300-SHP
0.000 44 Other clocks
0.000 37 OSCILLOQUARTZ OSA 3300
0.017 42 Commercial Rubidium clock
0.007 38 Chengdu Spaceon Electronics Company TA1000
6.020 93 GROUND-STATE HYPERFINETRANSITION OF 87 Rb
0.008 92 GROUND-STATE HYPERFINE TRANSITION OF 133 Cs

Rank	Weight	Lab
1	20.834	NTSC
2	18.724	SU
3	14.519	USNO
4	7.512	NIM
5	5.803	F
6	4.433	PTB
7	3.394	IT
8	2.864	SP
9	2.516	JV
10	2.494	NICT
11	2.480	PL
12	2.398	NPLI
13	1.683	NIST
14	1.664	SMD
15	1.577	ORB
16	1.338	KRIS
17	1.302	DFM
18	1.215	BY
19	1.119	APL
20	0.608	CH
21	0.387	BIRM
22	0.300	SG
23	0.168	VSL
24	0.086	TL
25	0.079	KZ
26	0.063	ONRJ
27	0.058	ROA
28	0.058	ESA
29	0.045	SCL
30	0.037	TP
31	0.033	JATC
32	0.028	ZA
33	0.027	BEV
34	0.024	NPL
35	0.024	MSL
36	0.014	IMBH
37	0.014	MIKE
38	0.012	NIMT
39	0.010	DTAG
40	0.009	INPL
41	0.009	NAO

NTP Usage Statistics

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



End of Bulletin.