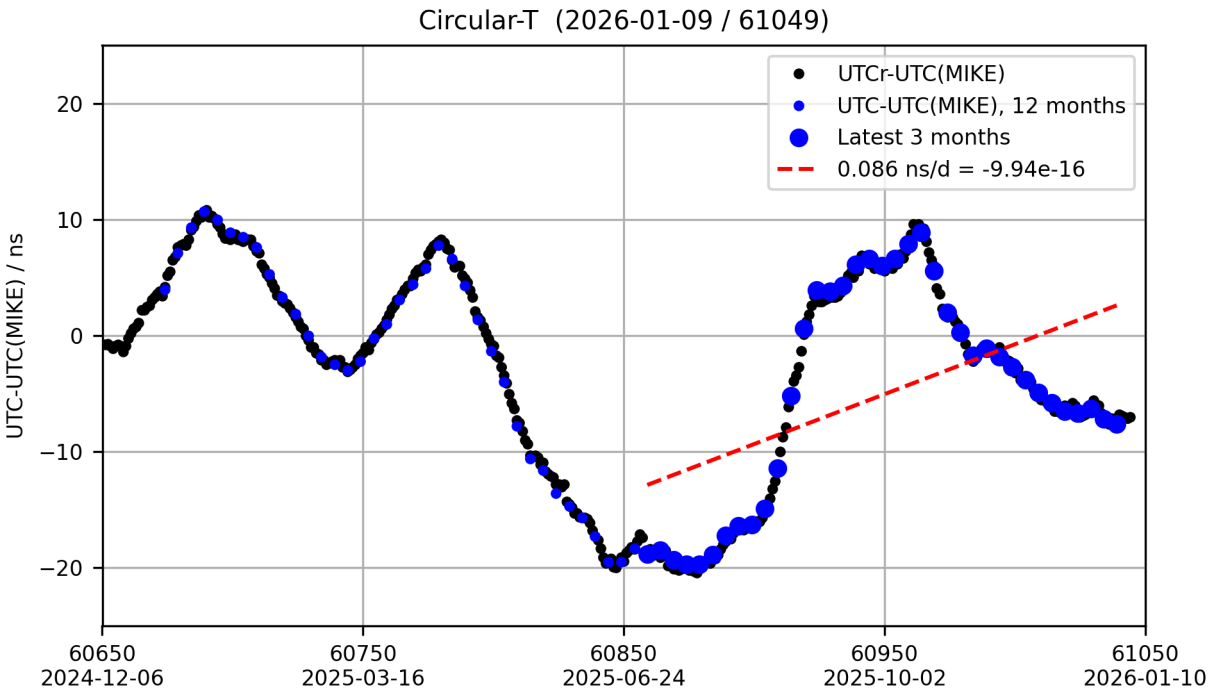
UTC(MIKE) Atomic Bulletin 2026-01

VTT MIKES Metrology monthly Time & Frequency bulletin.
Comments and questions to: time "at" vtt.fi
Date of publication: 2026-01-09 (61049)
Circular-T issues used for analysis: 451, 452, 453, 454, 455, 456,
First day of analysis interval: 2025-07-03 (60859)
Last day of analysis interval: 2025-12-30 (61039)
ClockData for analysis: CDMI__25.07_, CDMI__25.08_, CDMI__25.09_, CDMI__25.10_, CDMI__25.11_, CDMI__25.12_,
The Atomic Bulletin is archived at: https://monitor.mikes.fi/ftp/atomic_bulletin/

Notes

60433 (2024-05-02) AHM2 to master clock, AHM2 phase step +48759.63 ns
60496 (2024-07-05) AHM3 to master clock.
60502 (2024-07-11) AB2024-07: AHM3 fit to to 60434->. Steering -7e-15 = +18 ns/30days.
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.

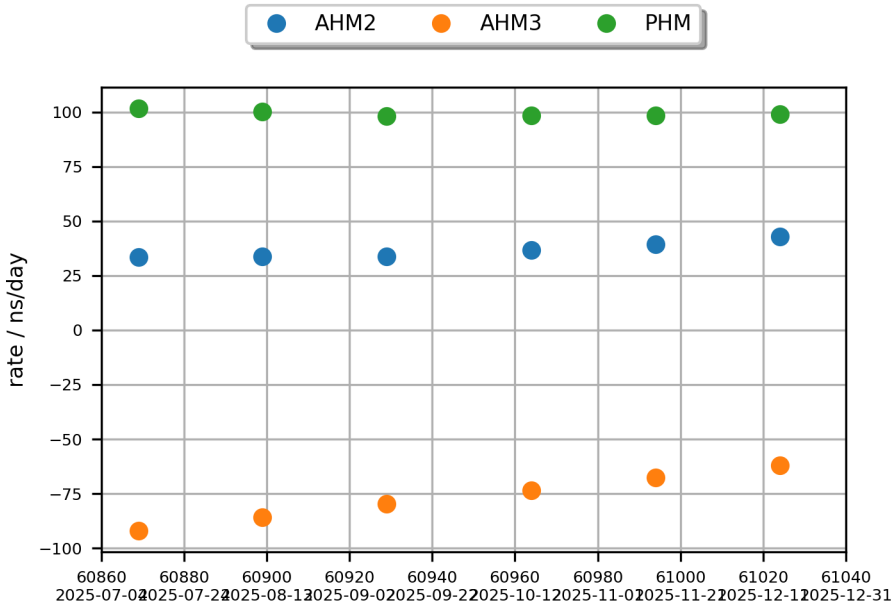
UTC-UTC(MIKE) as reported in Circular-T



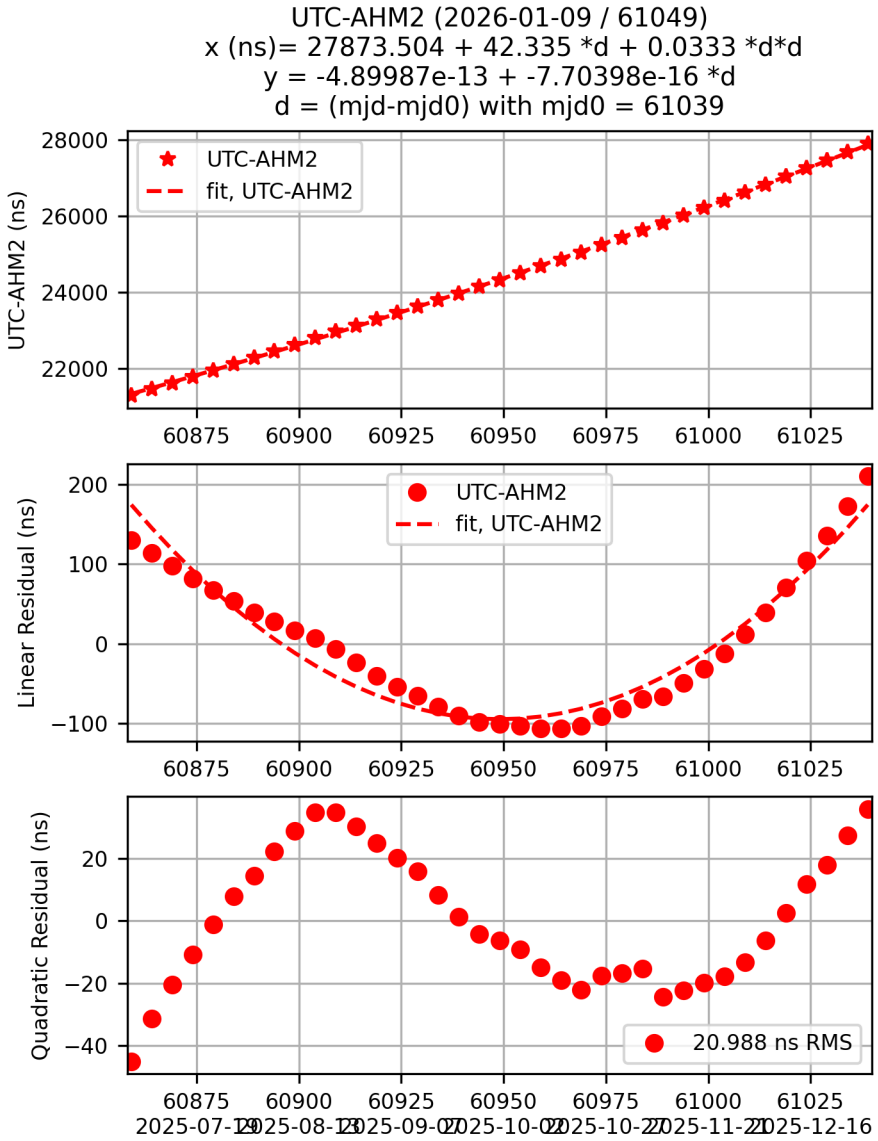
UTC-UTC(MIKE) is available on 5 day intervals on MJD dates ending with 4 or 9. Values are published monthly by the BIPM in Circular-T.

Clock Rates - Summary

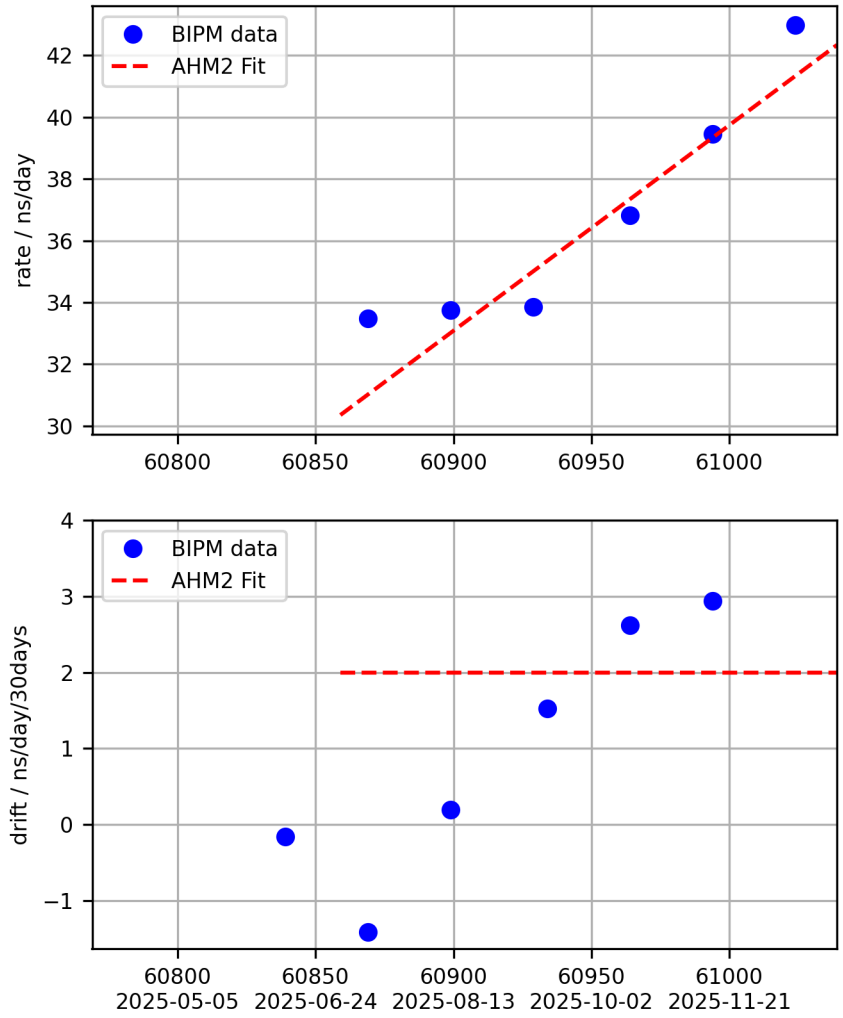
Clock rates as reported by the BIPM in the monthly r-report.



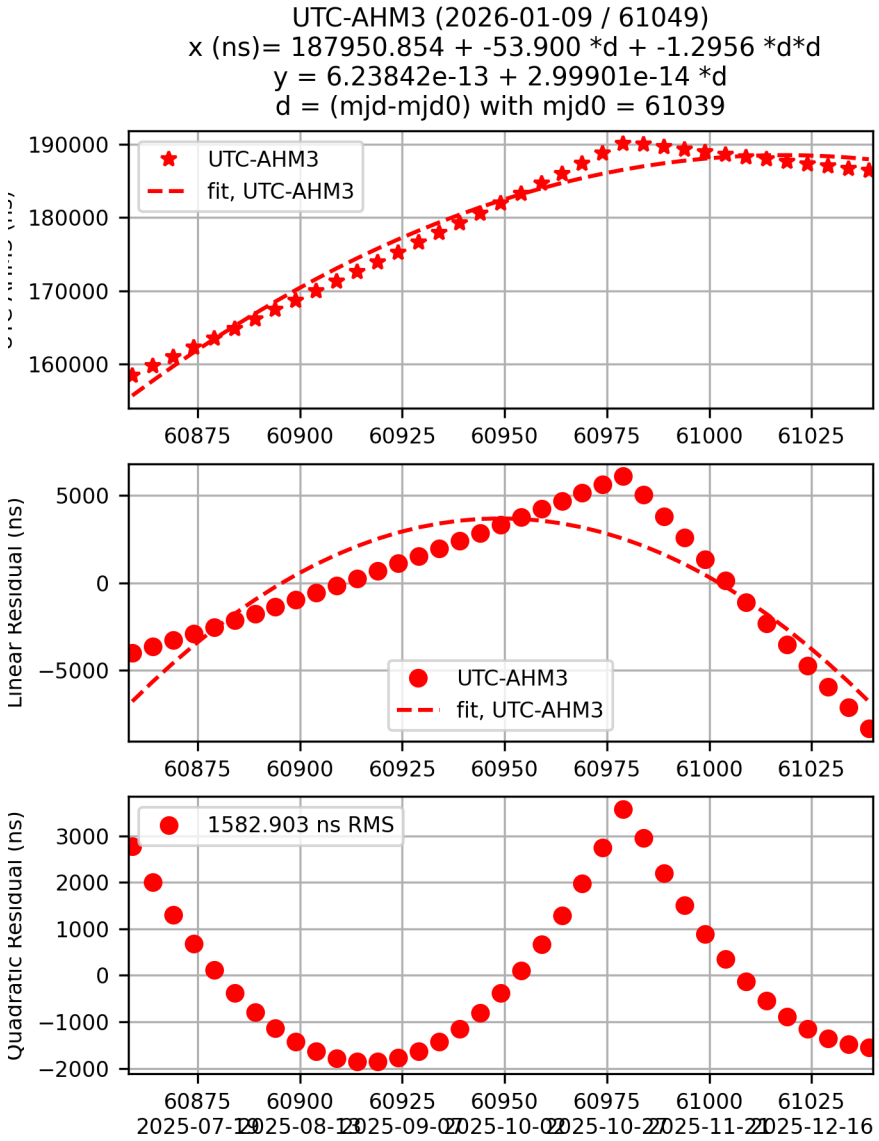
UTC - AHM2 Fit


UTC-AHM2 (2026-01-09 / 61049)
x (ns)= 27873.504 + 42.335 *d + 0.0333 *d*d
y = -4.89987e-13 + -7.70398e-16 *d
d = (mjd-mjd0) with mjd0 = 61039
UTC-AHM2
fit, UTC-AHM2
UTC-AHM2 (ns)
Linear Residual (ns)
Quadratic Residual (ns)
20.988 ns RMS
60875
60900
60925
60950
60975
61000
61025
2025-07-14
2025-08-13
2025-09-07
2025-10-02
2025-10-27
2025-11-21
2025-12-16

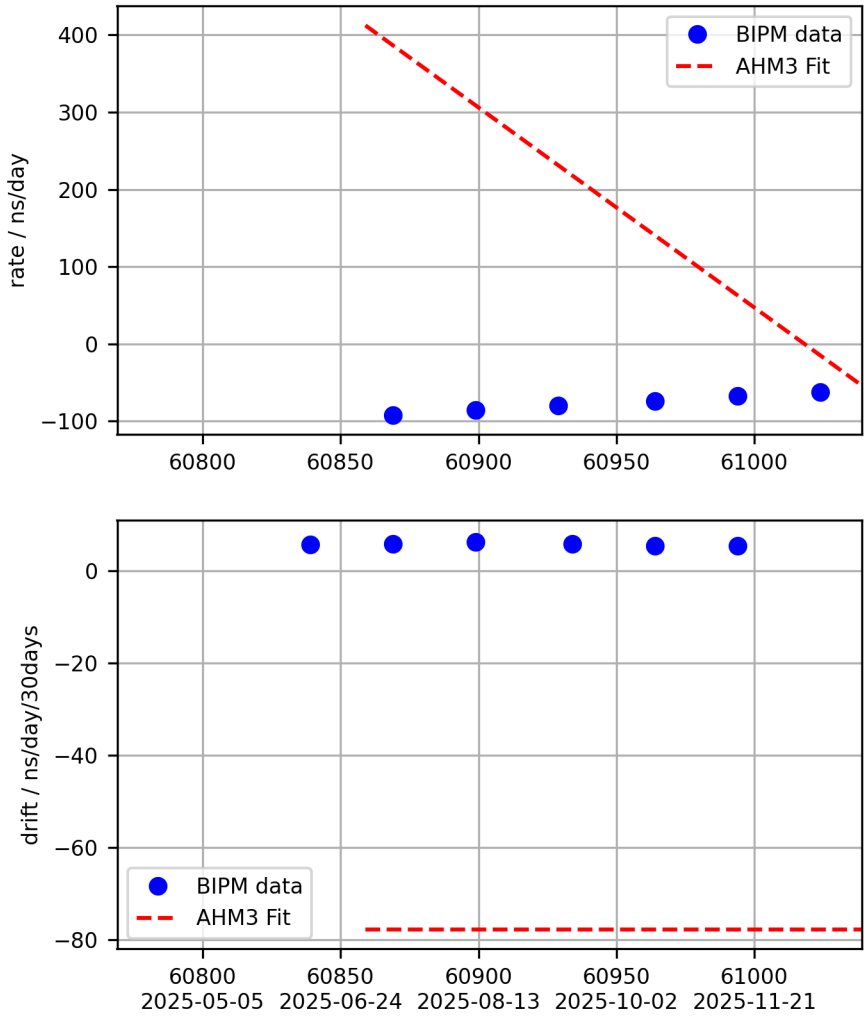
AHM2 Rate and Drift



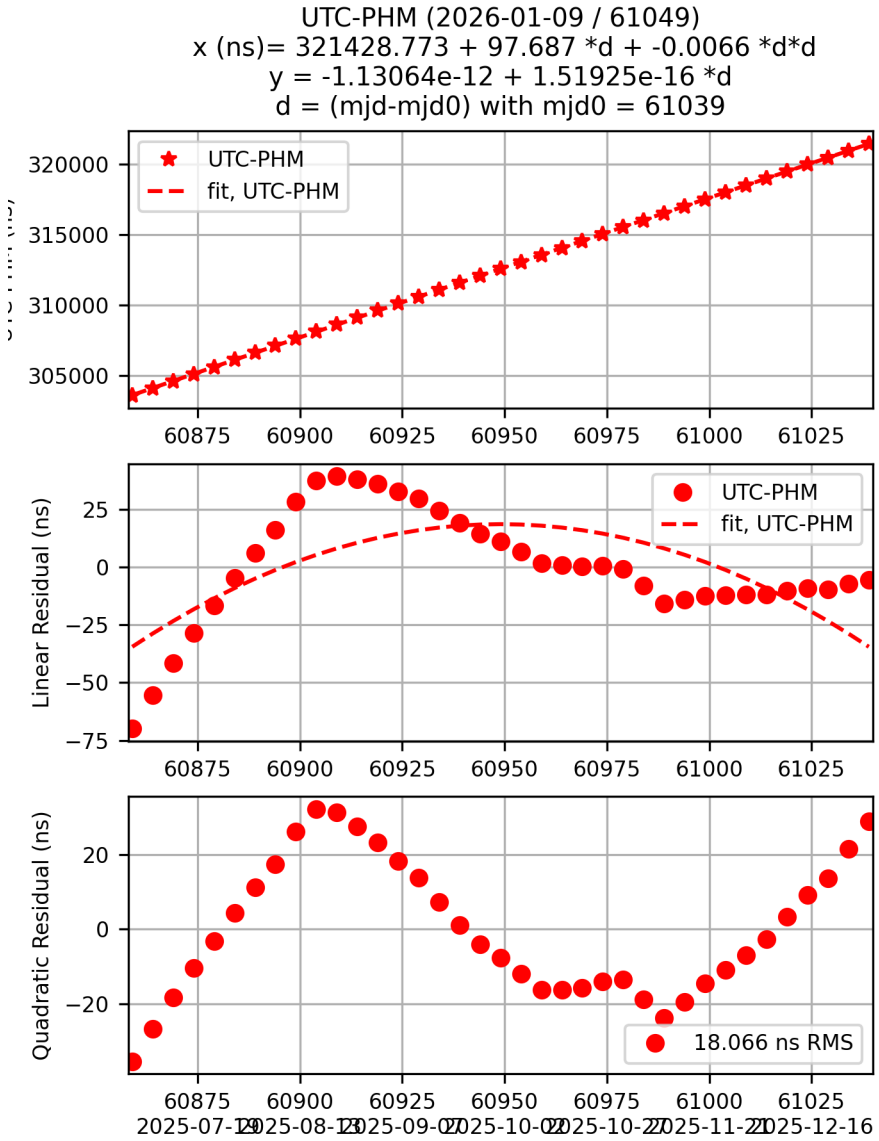
UTC - AHM3 Fit


UTC-AHM3 (2026-01-09 / 61049)
x (ns)= 187950.854 + -53.900 *d + -1.2956 *d*d
y = 6.23842e-13 + 2.99901e-14 *d
d = (mjd-mjd0) with mjd0 = 61039
UTC-AHM3
fit, UTC-AHM3
Linear Residual (ns)
Quadratic Residual (ns)
1582.903 ns RMS
60875
60900
60925
60950
60975
61000
61025
2025-07-19
2025-08-18
2025-09-07
2025-10-02
2025-10-27
2025-11-21
2025-12-16

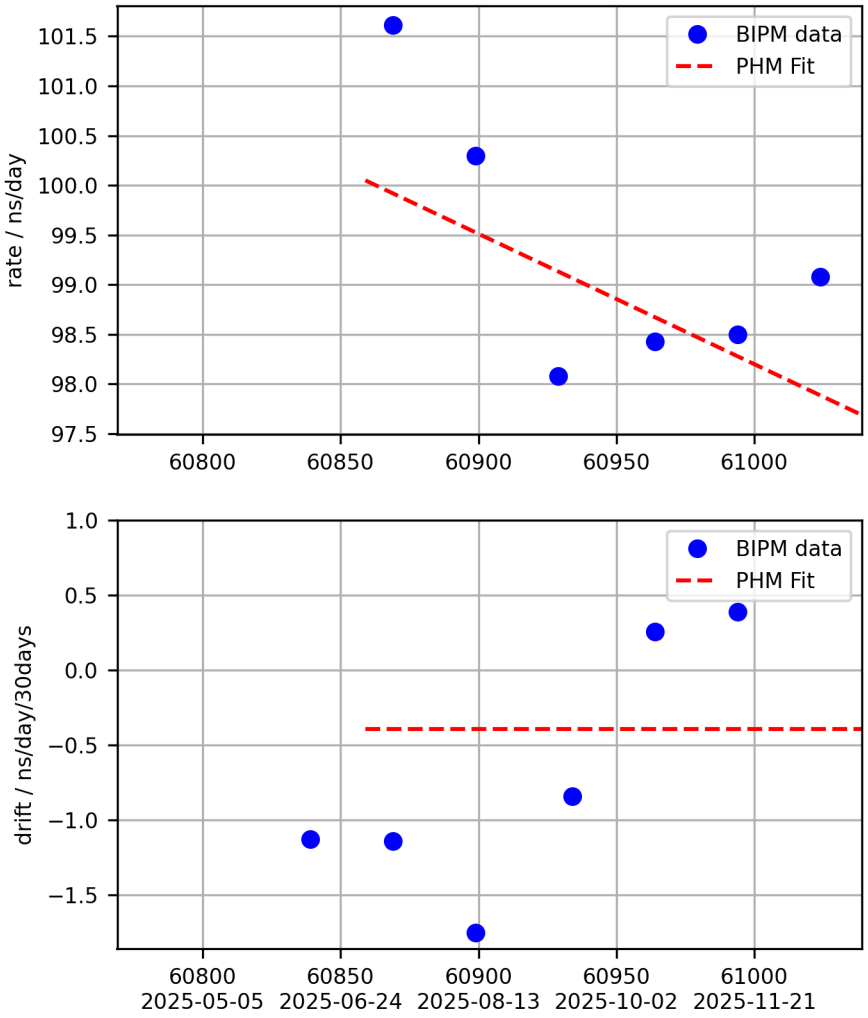
AHM3 Rate and Drift



UTC - PHM Fit

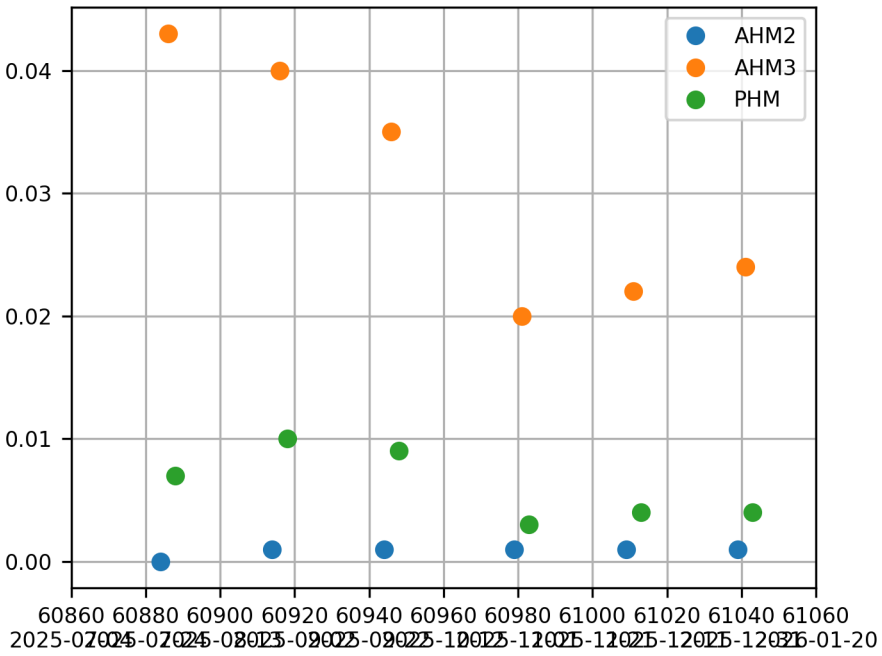

UTC-PHM (2026-01-09 / 61049)
x (ns)= 321428.773 + 97.687 *d + -0.0066 *d*d
y = -1.13064e-12 + 1.51925e-16 *d
d = (mjd-mjd0) with mjd0 = 61039
UTC-PHM
fit, UTC-PHM
320000
315000
310000
305000
60875
60900
60925
60950
60975
61000
61025
Linear Residual (ns)
25
0
−25
−50
−75
Quadratic Residual (ns)
20
0
−20
18.066 ns RMS
2025-07-19
2025-08-13
2025-09-07
2025-10-02
2025-10-27
2025-11-21
2025-12-16

PHM Rate and Drift



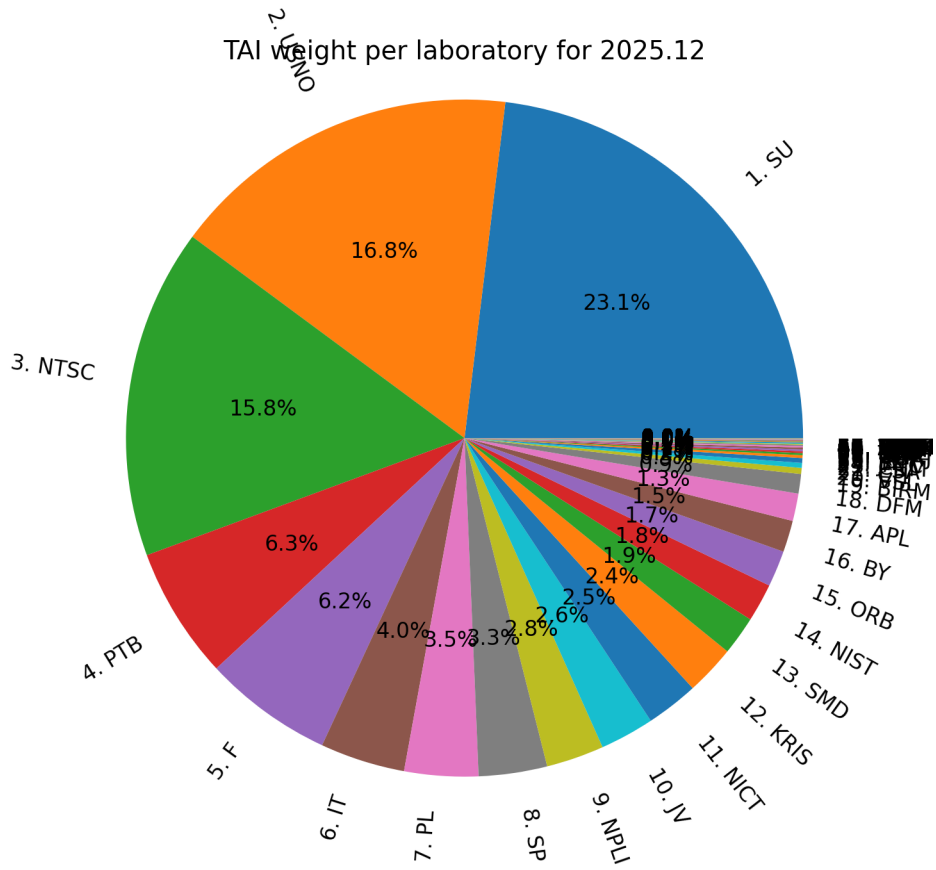
VTT MIKES Clock Weights

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

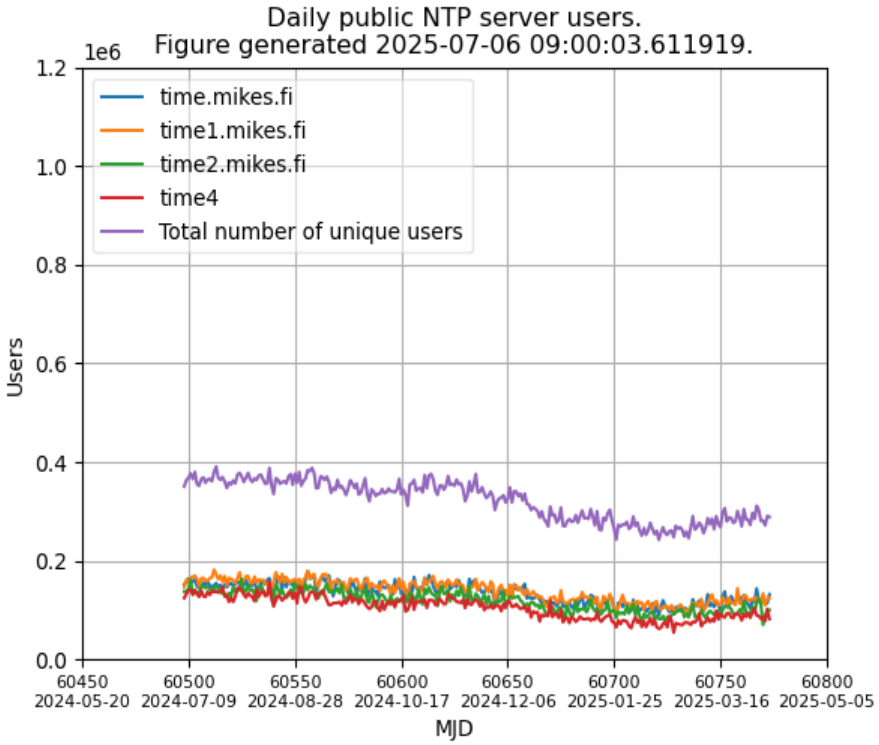


Weight-file for 2025.12
Number of clocks 416
Number of labs 69
Number of clock types 12
Sum of weights per lab 99.994, Sum of weights per clock type 99.994
Weight Clock Type
0.890 35 MICROSEMI 5071A HIGH PERFORMANCE TUBE.
62.717 40 UNSPECIFIED HYDROGEN MASER
29.106 41 HYDROGEN MASER
0.046 36 MICROSEMI 5071A LOW/STANDARD PERFORMANCE TUBE
0.019 18 MICROSEMI Cs 4000
0.000 22 OSCILLOQUARTZ OSA 3230B/3235B
0.031 32 OSCILLOQUARTZ OSA 3300-SHP
0.088 44 Other clocks
0.018 42 Commercial Rubidium clock
0.012 38 Chengdu Spaceon Electronics Company TA1000
7.046 93 GROUND-STATE HYPERFINETRANSITION OF 87 Rb
0.021 92 GROUND-STATE HYPERFINE TRANSITION OF 133 Cs

Rank	Weight	Lab
1	23.070	SU
2	16.789	USNO
3	15.759	NTSC
4	6.286	PTB
5	6.182	F
6	4.048	IT
7	3.528	PL
8	3.263	SP
9	2.757	NPLI
10	2.587	JV
11	2.498	NICT
12	2.380	KRIS
13	1.852	SMD
14	1.824	NIST
15	1.727	ORB
16	1.508	BY
17	1.311	APL
18	0.932	DFM
19	0.287	BIRM
20	0.237	VSL
21	0.229	CH
22	0.135	ESA
23	0.098	CNM
24	0.088	JATC
25	0.087	TL
26	0.086	KZ
27	0.075	ROA
28	0.058	ONRJ
29	0.042	BEV
30	0.042	TP
31	0.038	SCL
32	0.029	MIKE
33	0.027	NPL
34	0.019	BIM
35	0.019	MSL
36	0.015	HKO
37	0.015	NIMT
38	0.012	IMBH
39	0.011	NAO
40	0.010	INPL
41	0.008	AUS

NTP Usage Statistics

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



End of Bulletin.