

UTC(MIKE) Atomic Bulletin 2025-10

VTT MIKES Metrology monthly Time & Frequency bulletin.

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

Date of publication: 2025-10-14 (60962)

Circular-T issues used for analysis: [448](#), [449](#), [450](#), [451](#), [452](#), [453](#),

First day of analysis interval: 2025-04-04 (60769)

Last day of analysis interval: 2025-09-26 (60944)

ClockData for analysis: [CDMI_25.04](#), [CDMI_25.05](#), [CDMI_25.06](#), [CDMI_25.07](#),
[CDMI_25.08](#), [CDMI_25.09](#),

The Atomic Bulletin is archived at: https://monitor.mikes.fi/ftp/atomic_bulletin/

Notes

60424 (2024-04-24) AHM3 ion pump failure, phase step -1428.2ns

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.

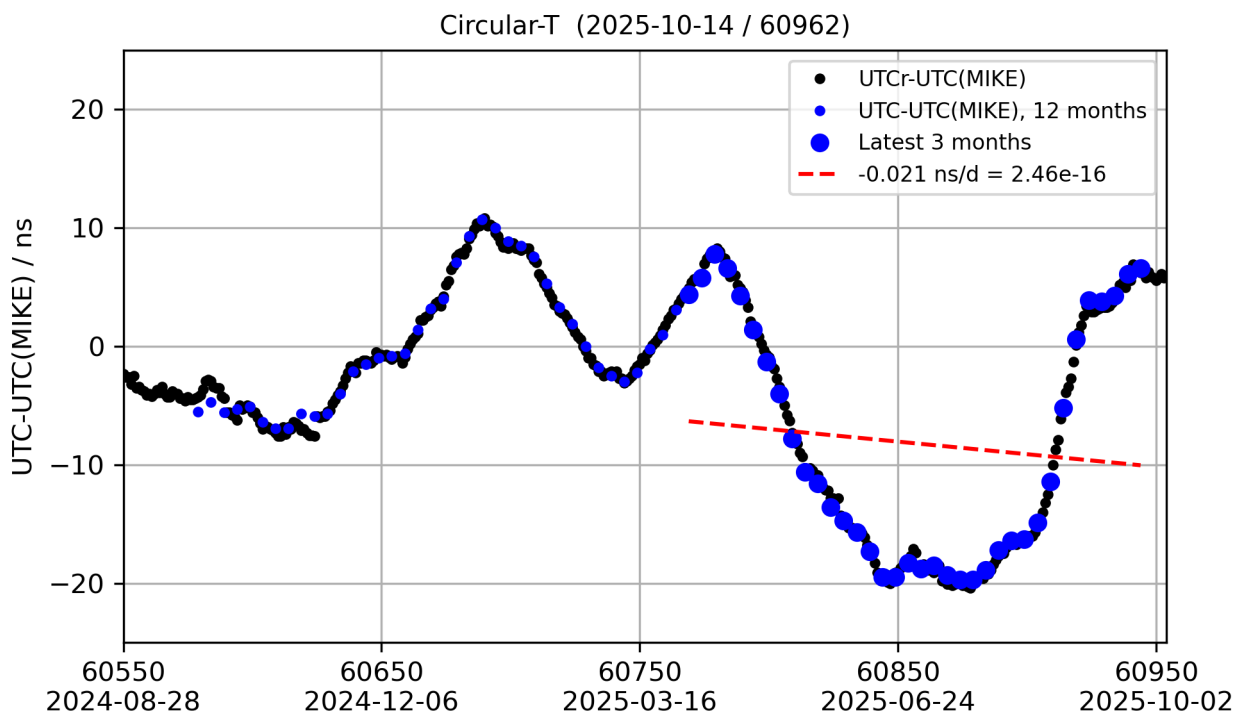
60871 (2025-07-15) AB2025-07: keep steering +20ns/60days = -3.8e-15.

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.

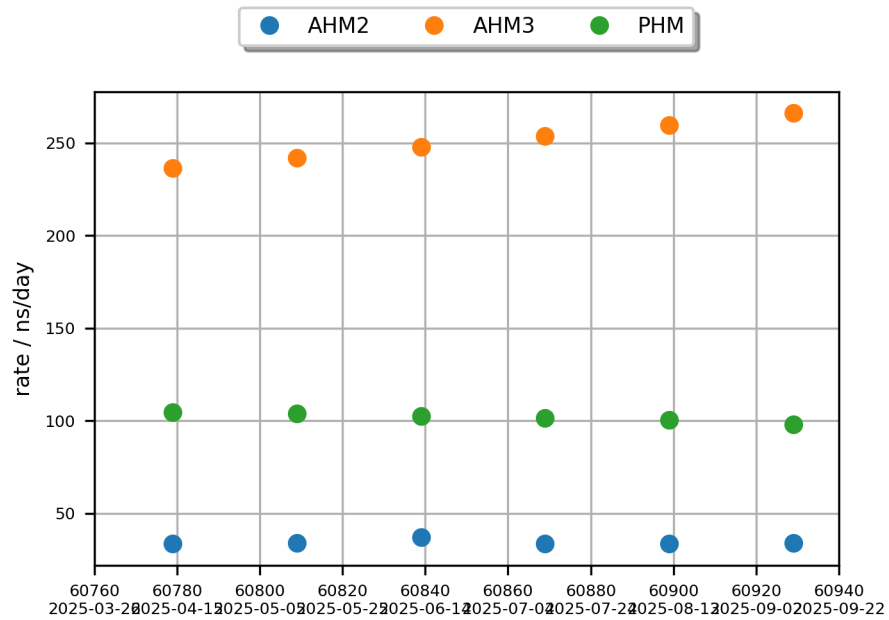
UTC-UTC(MIKE) as reported in Circular-T



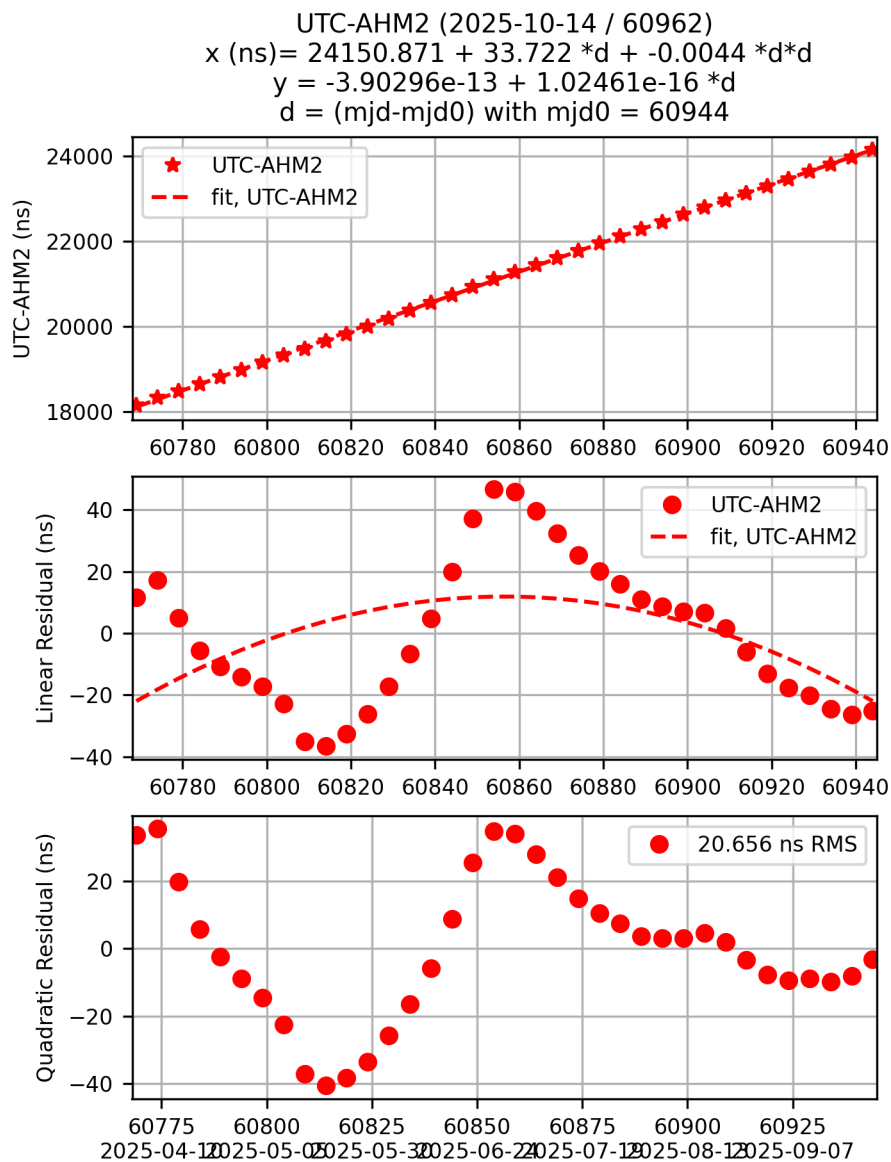
UTC-UTC(MIKE) is available on 5 day intervals on MJD dates ending with 4 or 9. Values are published monthly by the BIPM in Circular-T.

Clock Rates - Summary

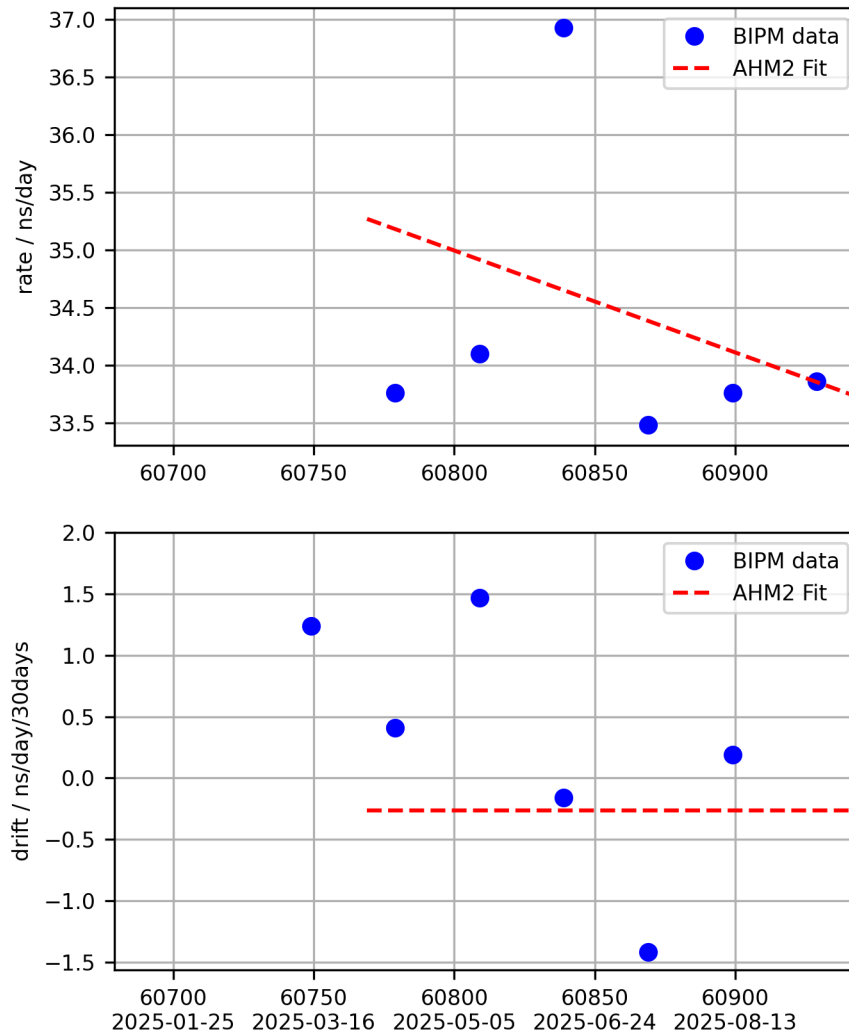
Clock rates as reported by the BIPM in the monthly r-report.



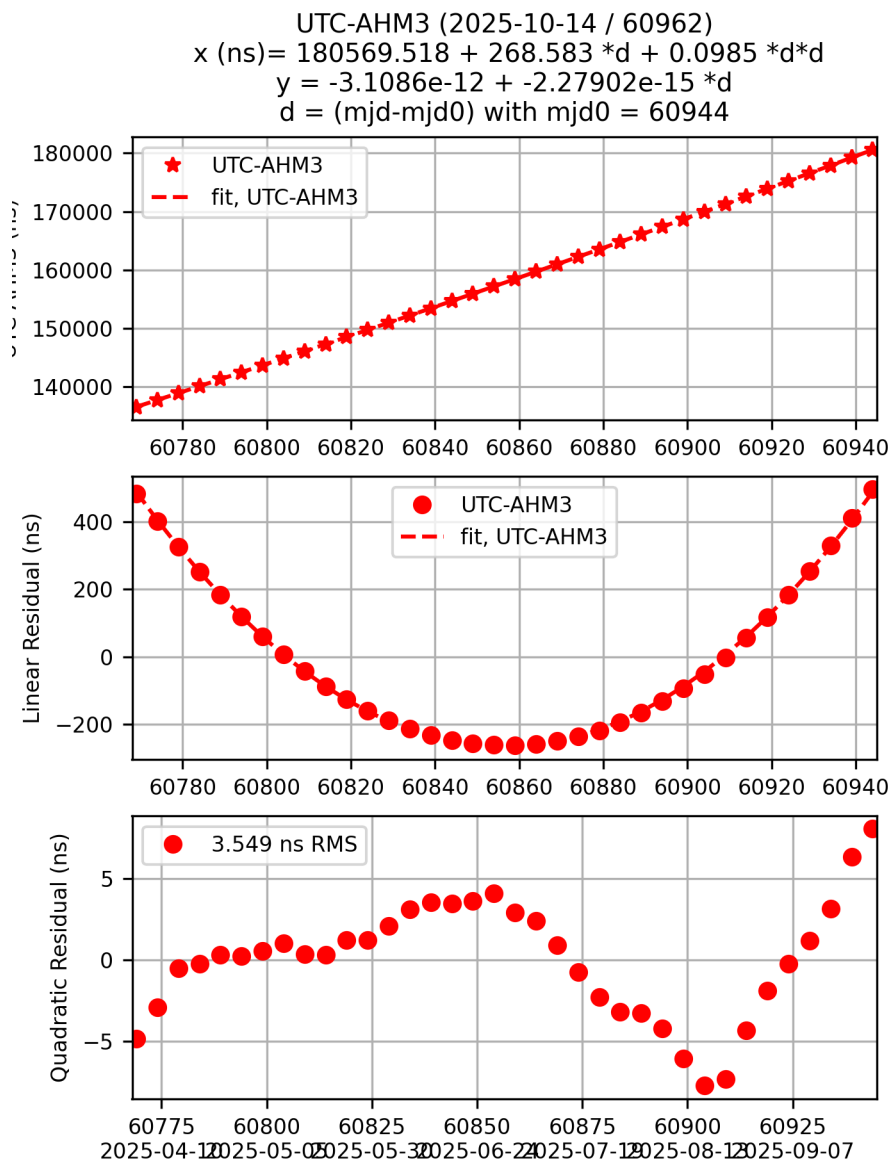
UTC - AHM2 Fit



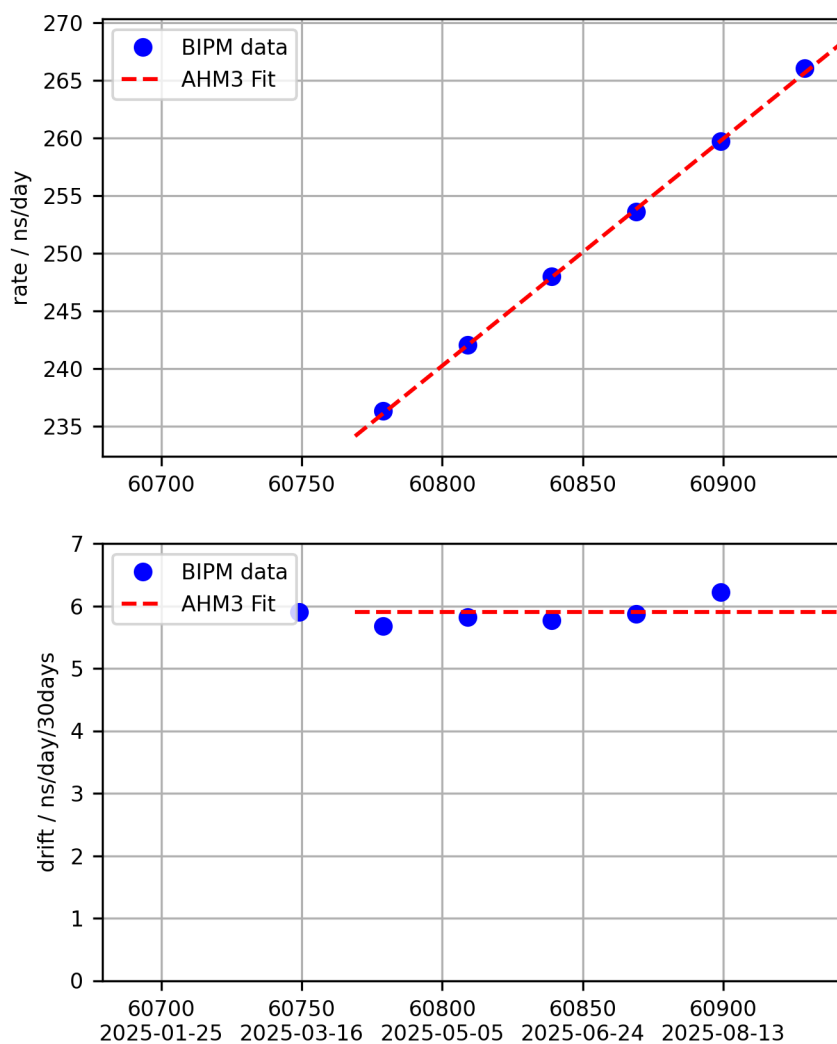
AHM2 Rate and Drift



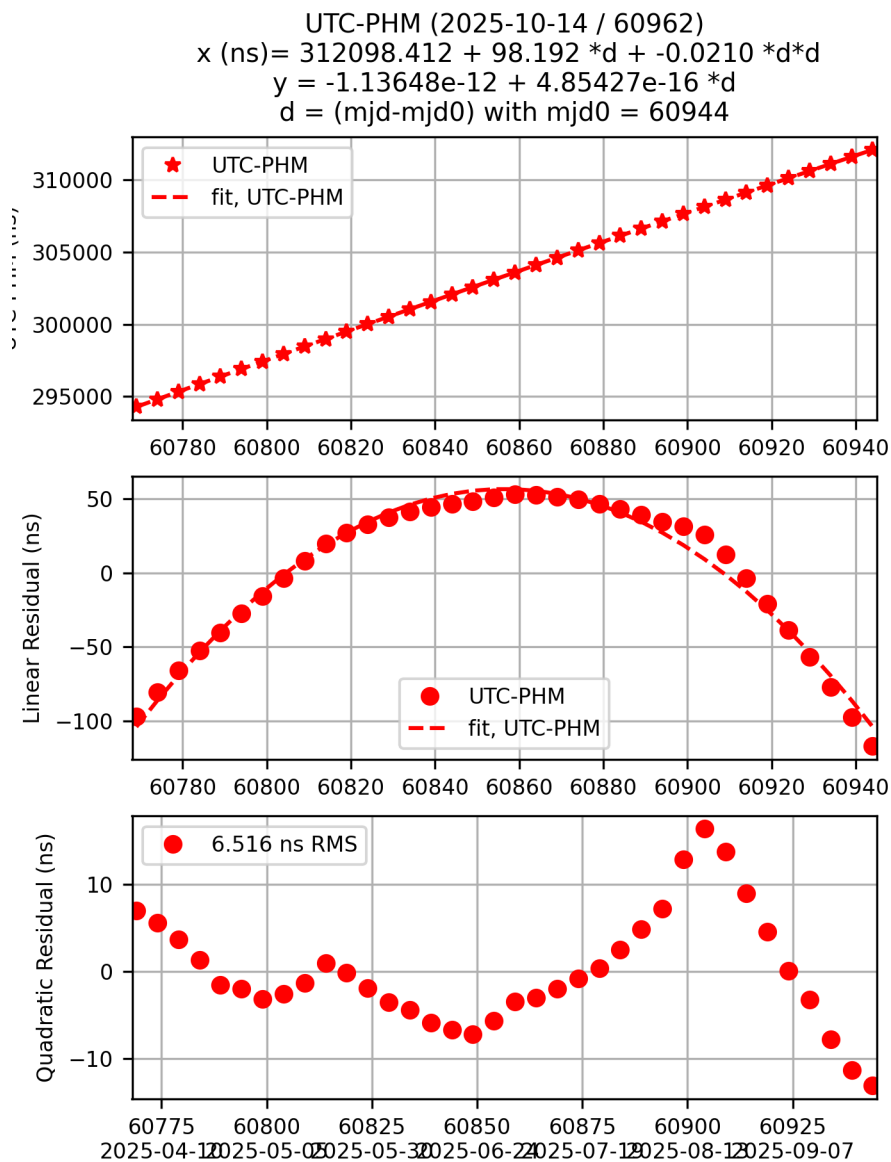
UTC - AHM3 Fit



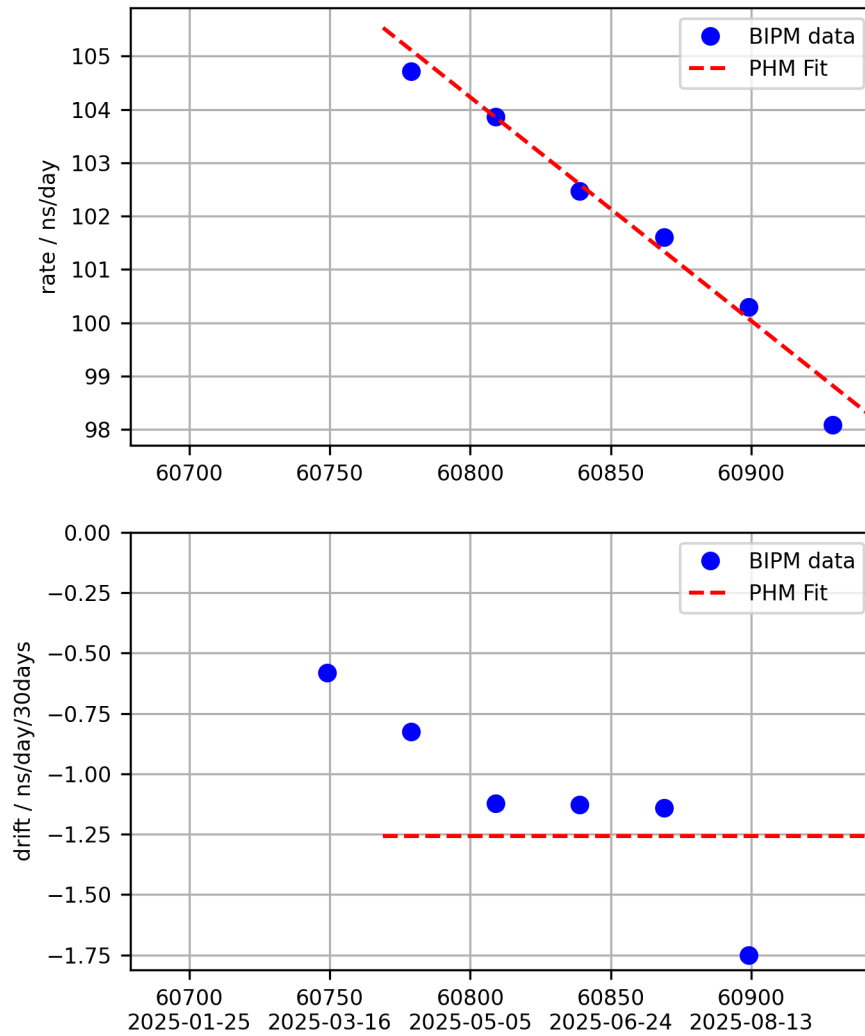
AHM3 Rate and Drift



UTC - PHM Fit

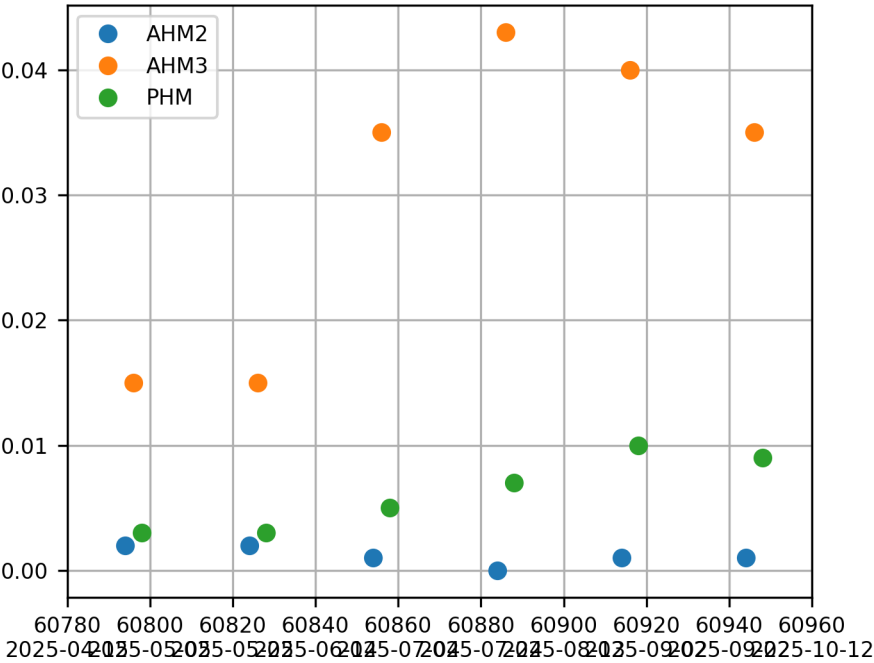


PHM Rate and Drift



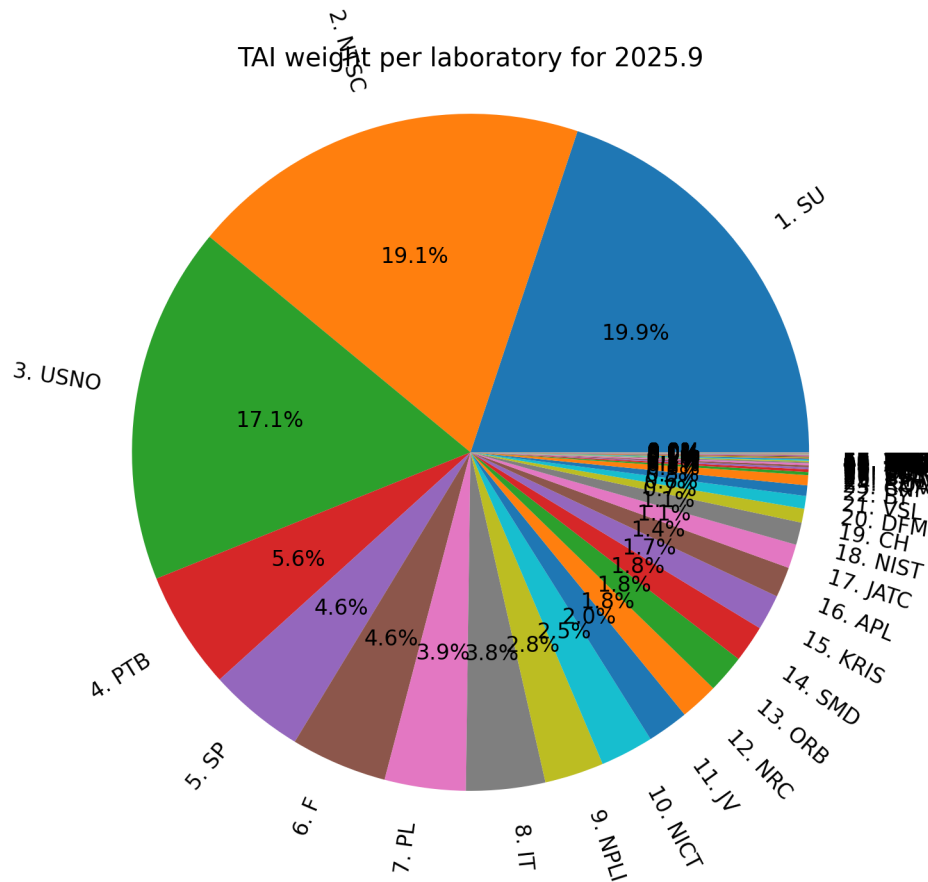
VTT MIKES Clock Weights

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 2025.09

Number of clocks 392

Number of labs 65

Number of clock types 12

Sum of weights per lab 99.998, Sum of weights per clock type 99.998

Weight Clock Type

0.942 35 MICROSEMI 5071A HIGH PERFORMANCE TUBE.

58.508 40 UNSPECIFIED HYDROGEN MASER

33.825 41 HYDROGEN MASER

0.048 36 MICROSEMI 5071A LOW/STANDARD PERFORMANCE TUBE

0.010 18 MICROSEMI Cs 4000

0.001 22 OSCILLOQUARTZ OSA 3230B/3235B

0.035 32 OSCILLOQUARTZ OSA 3300-SHP

0.000 44 Other clocks

0.106 42 Commercial Rubidium clock

0.011 38 Chengdu Spaceon Electronics Company TA1000

6.485 93 GROUND-STATE HYPERFINETRANSITION OF 87 Rb

0.027 92 GROUND-STATE HYPERFINE TRANSITION OF 133 Cs

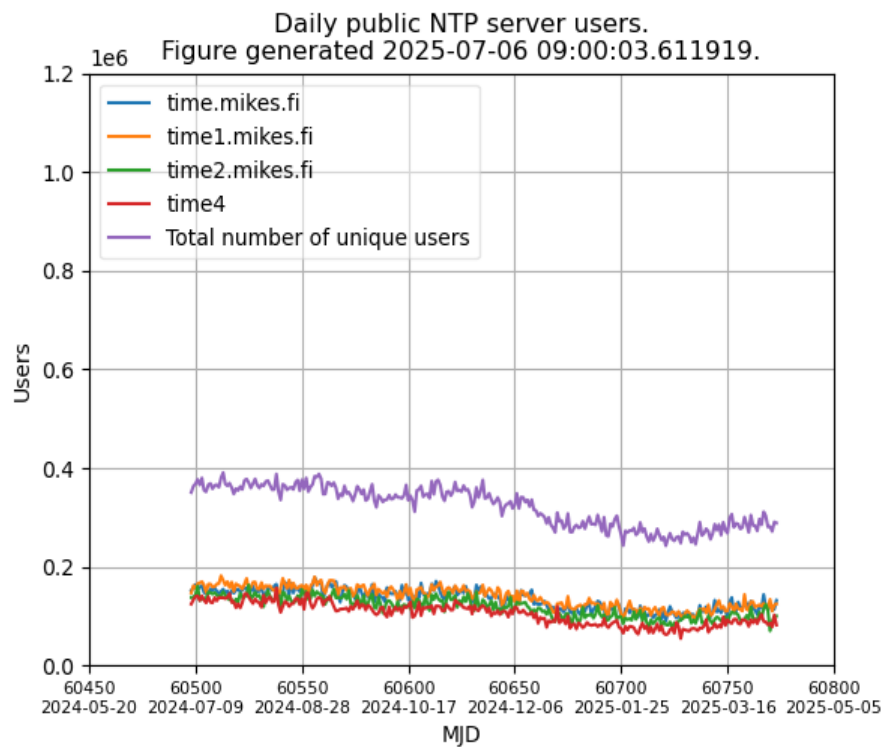
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Rank Weight Lab

1 19.879 SU
2 19.132 NTSC
3 17.073 USNO
4 5.627 PTB
5 4.603 SP
6 4.597 F
7 3.869 PL
8 3.774 IT
9 2.827 NPLI
10 2.539 NICT
11 1.975 JV
12 1.830 NRC
13 1.819 ORB
14 1.761 SMD
15 1.700 KRIS
16 1.448 APL
17 1.142 JATC
18 1.069 NIST
19 0.665 CH
20 0.606 DFM
21 0.503 VSL
22 0.482 BY
23 0.148 CNM
24 0.127 ROA
25 0.098 KZ
26 0.095 BIRM
27 0.095 ESA
28 0.060 SCL
29 0.056 ONRJ
30 0.056 TL
31 0.049 TP
32 0.045 MIKE
33 0.035 BEV
34 0.035 NPL
35 0.033 NAO
36 0.024 NIMT
37 0.014 HKO
38 0.013 AUS
39 0.012 NIS
40 0.011 INPL
41 0.010 BIM

NTP Usage Statistics

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



End of Bulletin.