

UTC(MIKE) Atomic Bulletin 2025-09

VTT MIKES Metrology monthly Time & Frequency bulletin.

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

Date of publication: 2025-09-15 (60933)

Circular-T issues used for analysis: [447](#), [448](#), [449](#), [450](#), [451](#), [452](#),

First day of analysis interval: 2025-03-05 (60739)

Last day of analysis interval: 2025-08-27 (60914)

ClockData for analysis: [CDMI_25.03](#), [CDMI_25.04](#), [CDMI_25.05](#), [CDMI_25.06](#),
[CDMI_25.07](#), [CDMI_25.08](#),

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.

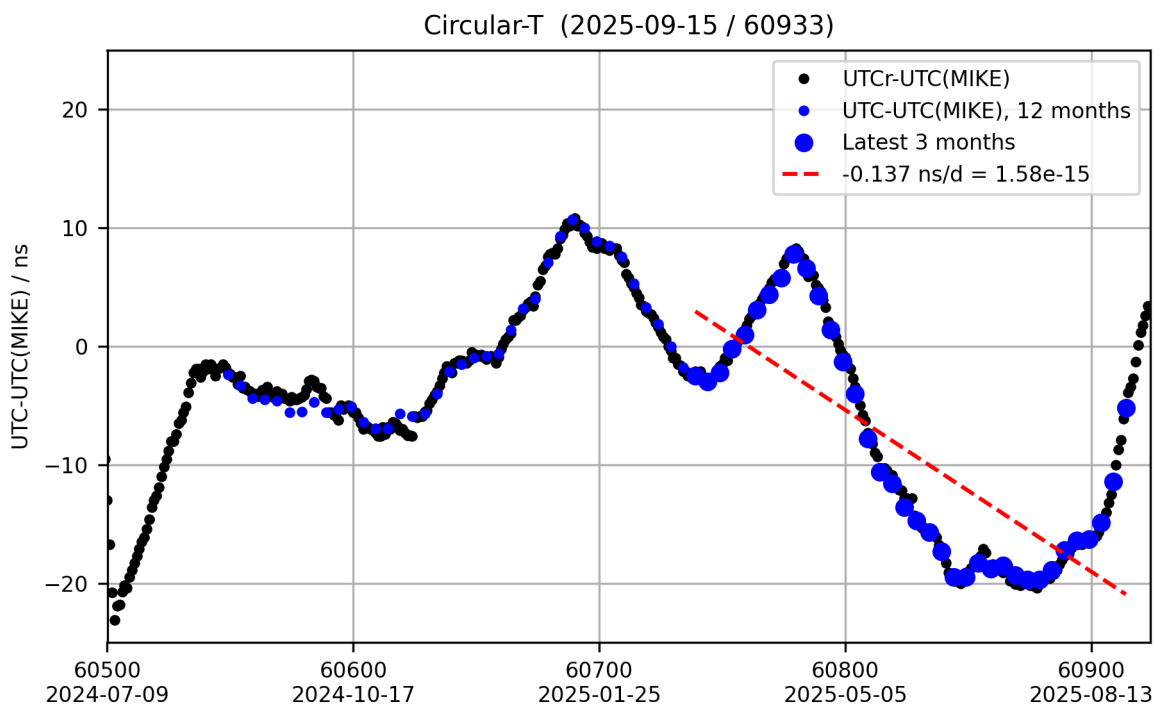
60871 (2025-07-15) AB2025-07: keep steering +20ns/60days = -3.8e-15.

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.

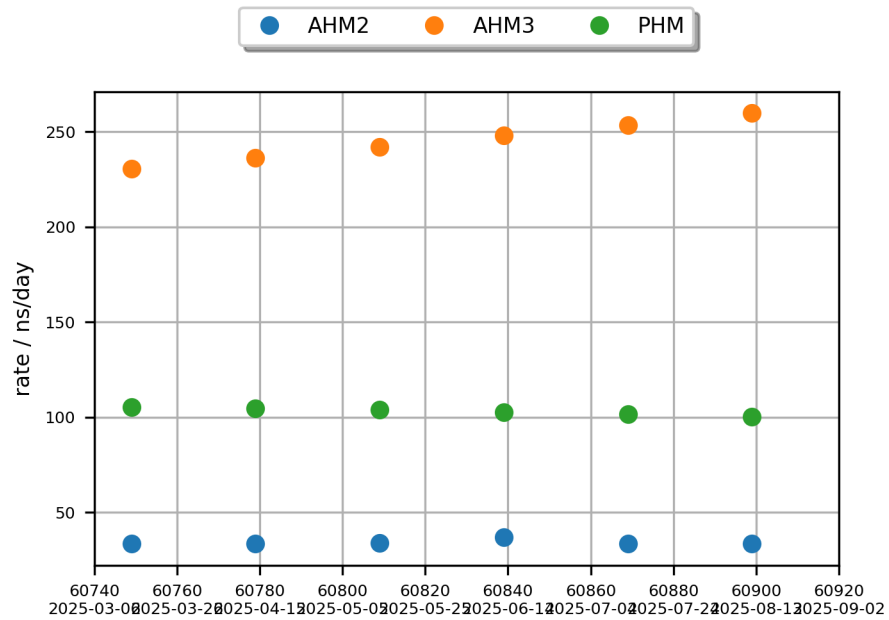
UTC-UTC(MIKE) as reported in Circular-T



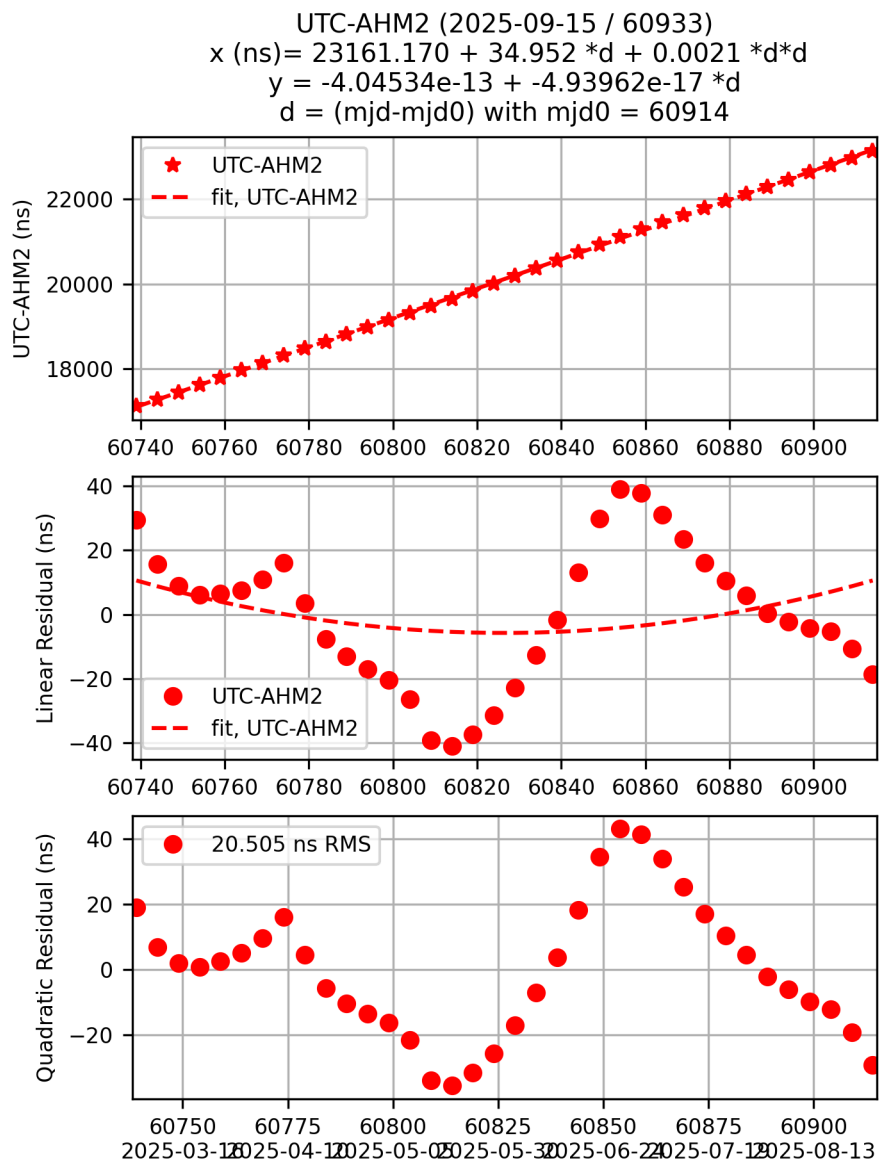
UTC-UTC(MIKE) is available on 5 day intervals on MJD dates ending with 4 or 9. Values are published monthly by the BIPM in Circular-T.

Clock Rates - Summary

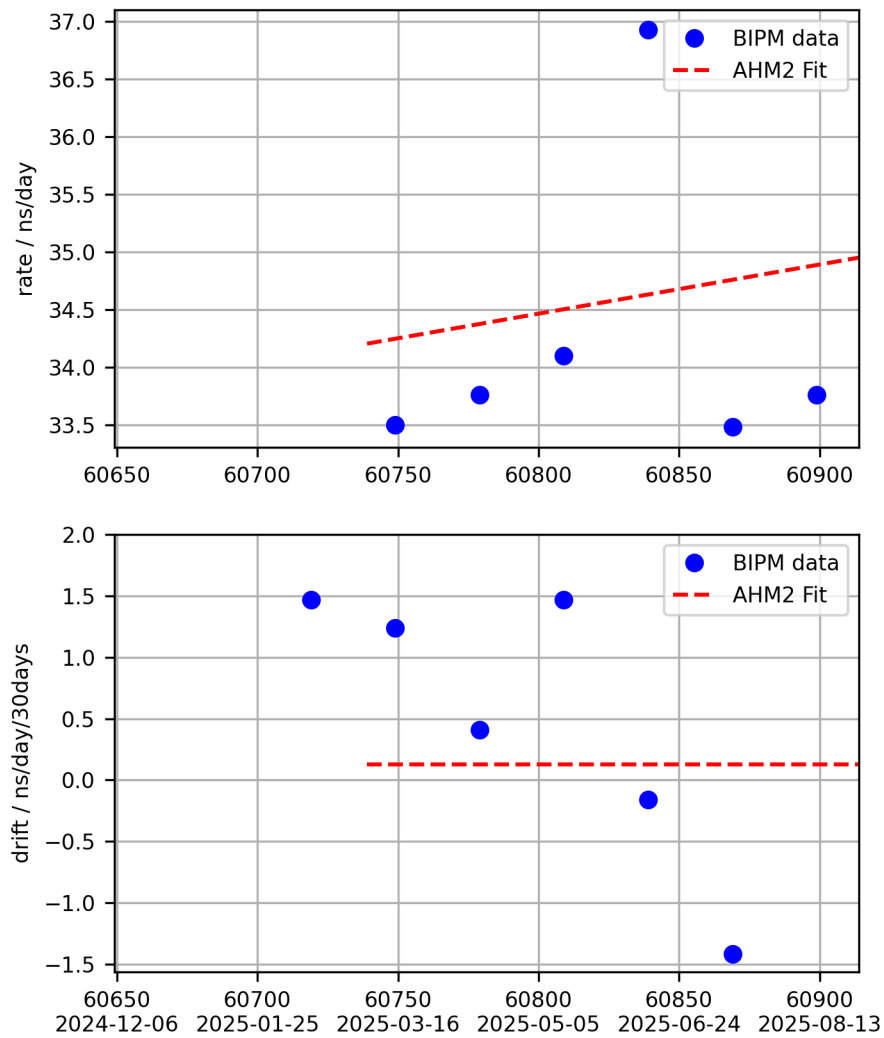
Clock rates as reported by the BIPM in the monthly r-report.



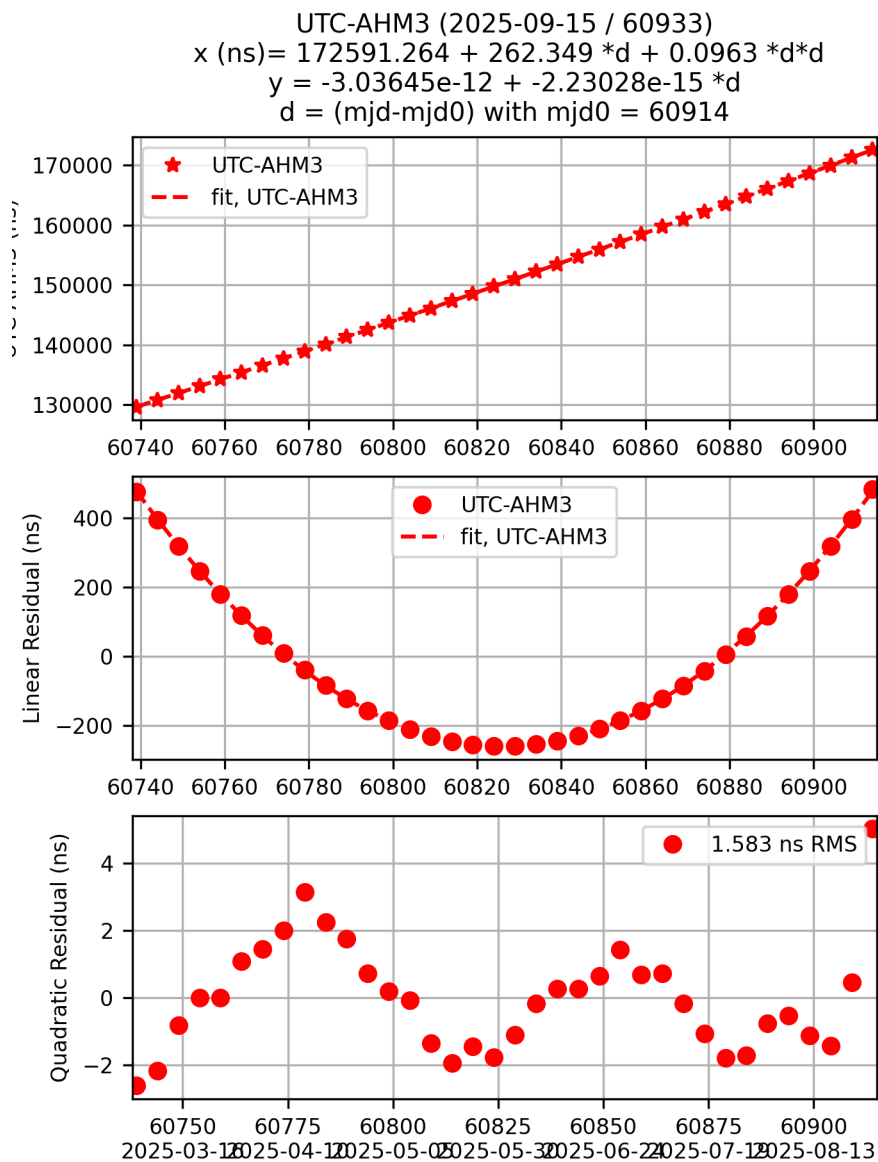
UTC - AHM2 Fit



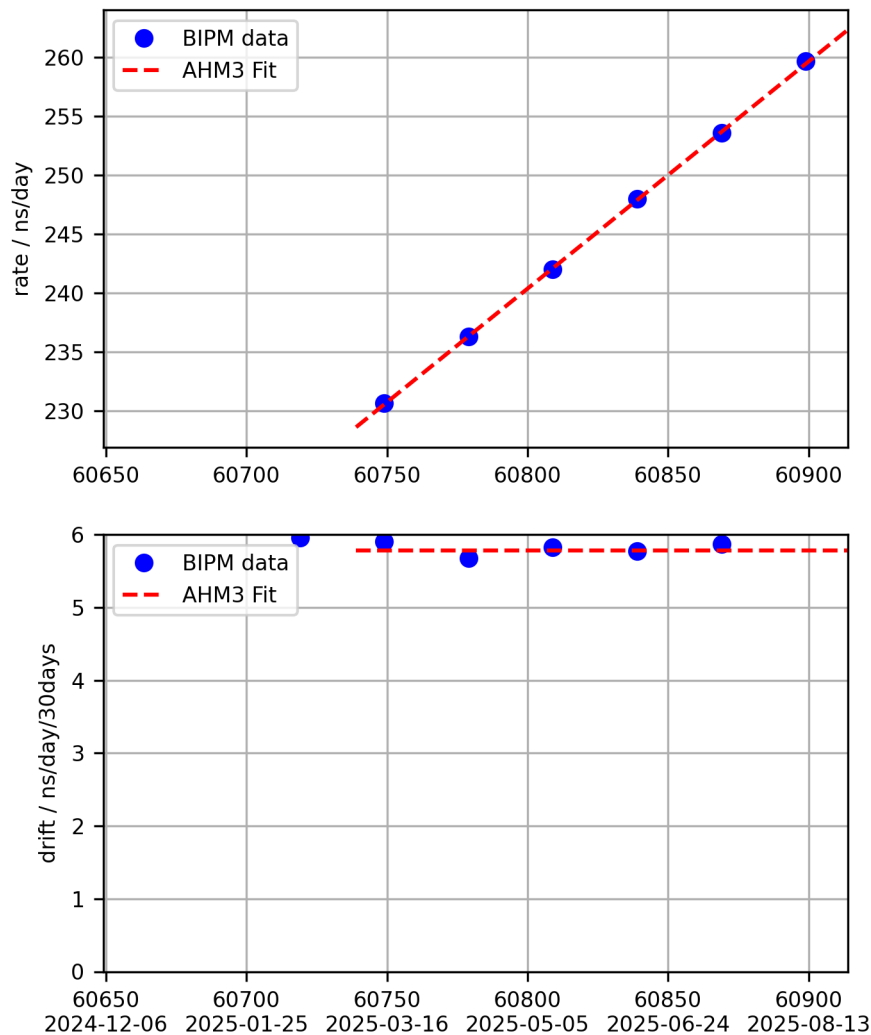
AHM2 Rate and Drift



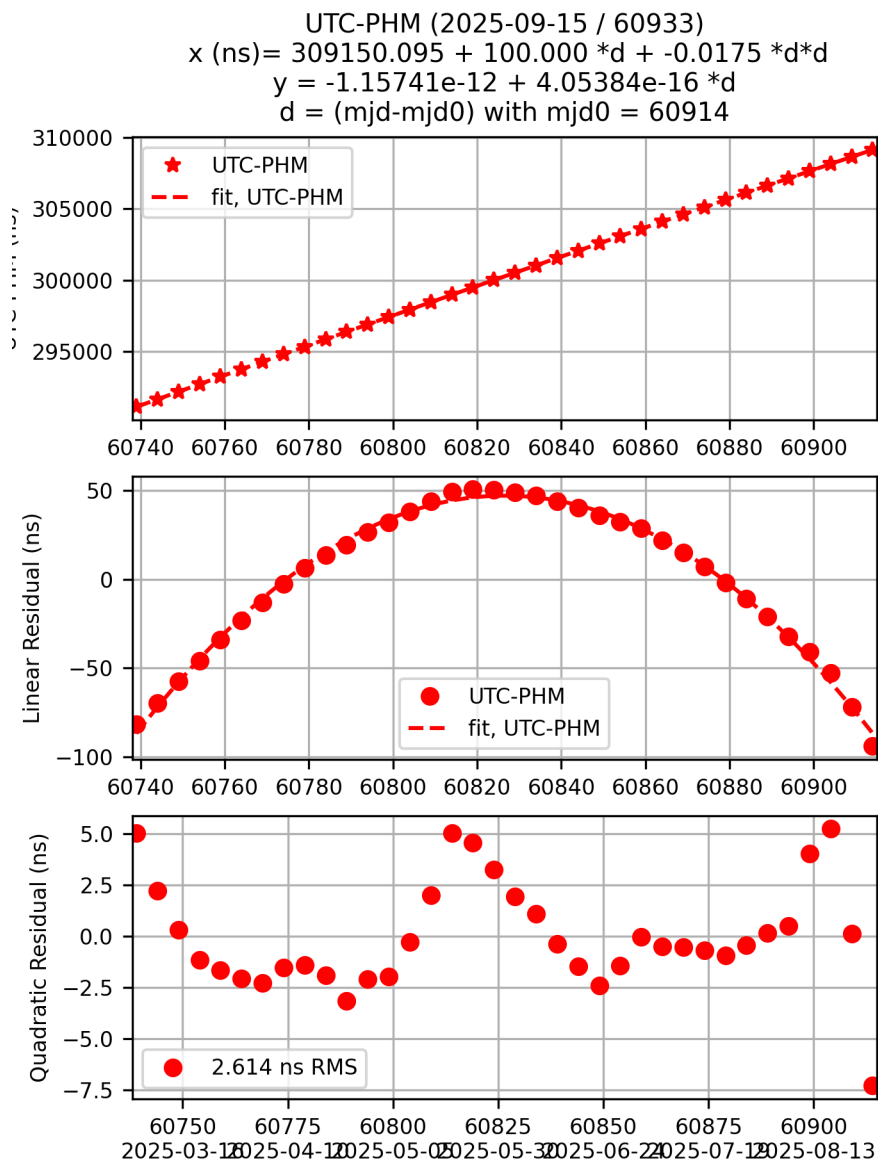
UTC - AHM3 Fit



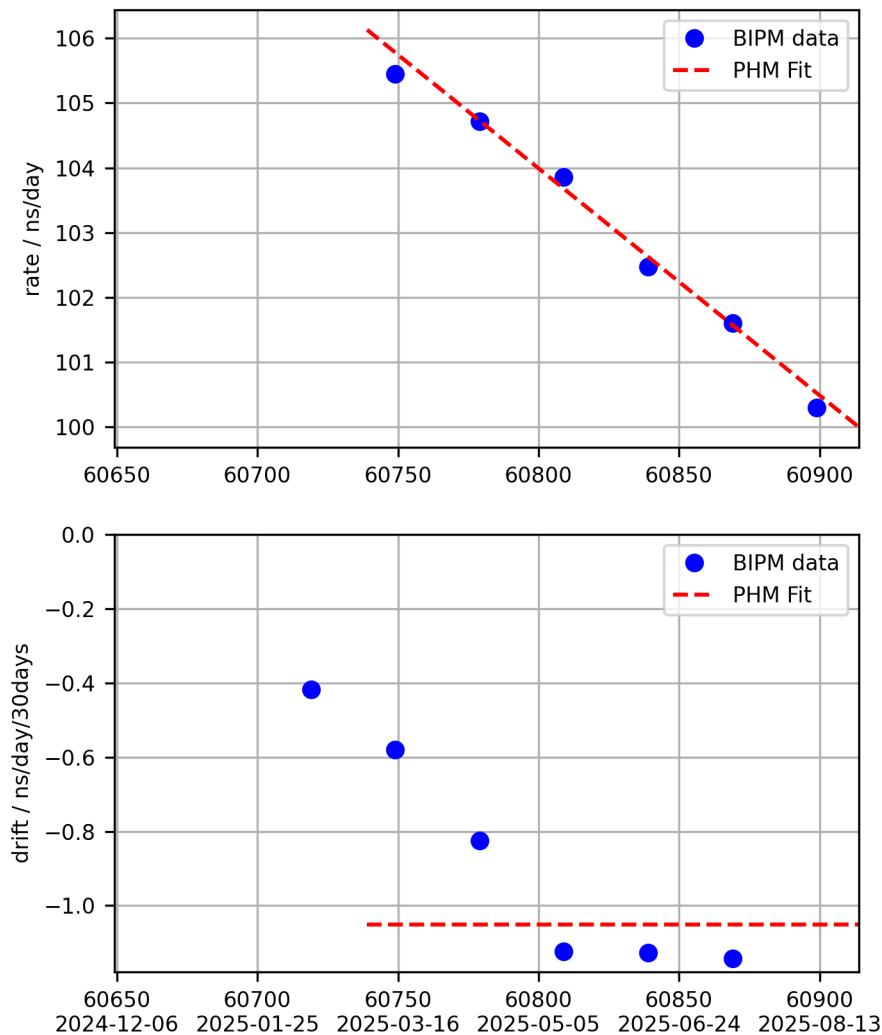
AHM3 Rate and Drift



UTC - PHM Fit

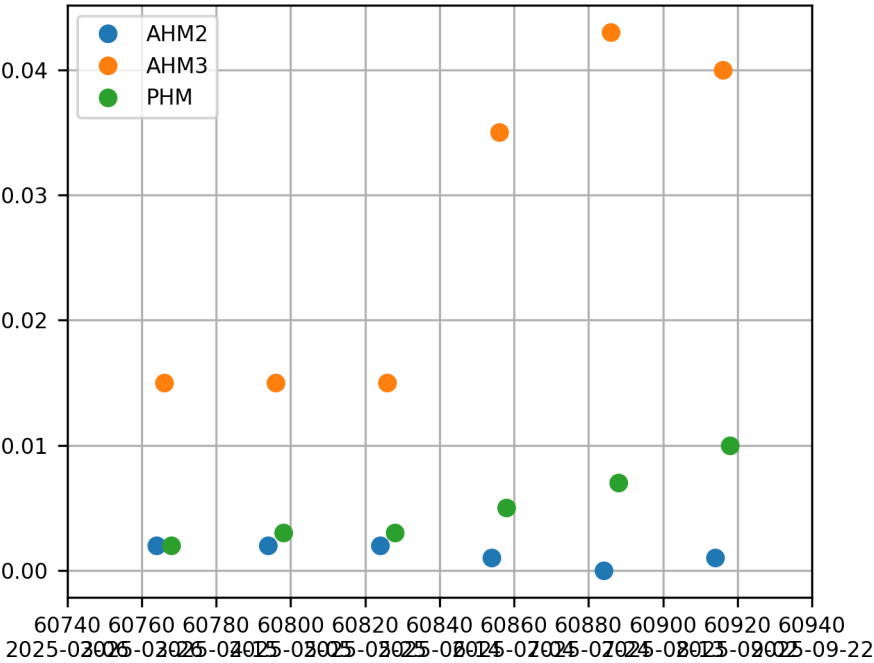


PHM Rate and Drift



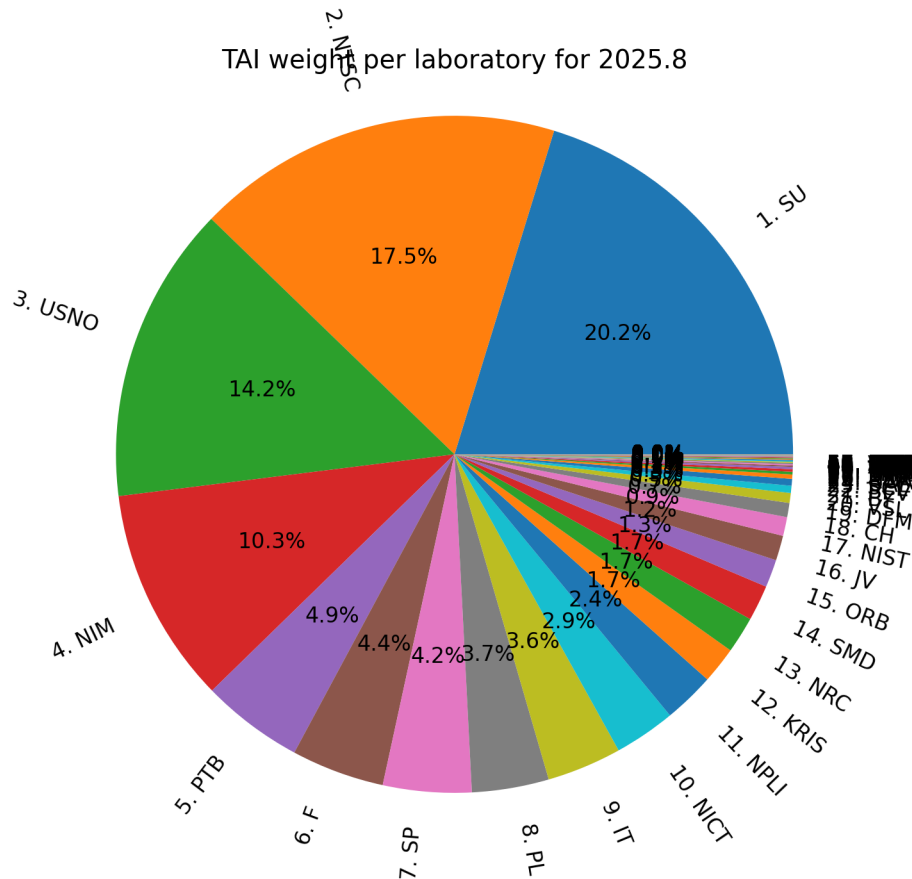
VTT MIKES Clock Weights

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 2025.08

Number of clocks 391

Number of labs 63

Number of clock types 12

Sum of weights per lab 99.980, Sum of weights per clock type 99.980

Weight Clock Type

0.868 35 MICROSEMI 5071A HIGH PERFORMANCE TUBE.

62.246 40 UNSPECIFIED HYDROGEN MASER

30.787 41 HYDROGEN MASER

0.038 36 MICROSEMI 5071A LOW/STANDARD PERFORMANCE TUBE

0.006 18 MICROSEMI Cs 4000

0.001 22 OSCILLOQUARTZ OSA 3230B/3235B

0.012 32 OSCILLOQUARTZ OSA 3300-SHP

0.000 44 Other clocks

0.069 42 Commercial Rubidium clock

0.020 38 Chengdu Spaceon Electronics Company TA1000

5.915 93 GROUND-STATE HYPERFINETRANSITION OF 87 Rb

0.018 92 GROUND-STATE HYPERFINE TRANSITION OF 133 Cs

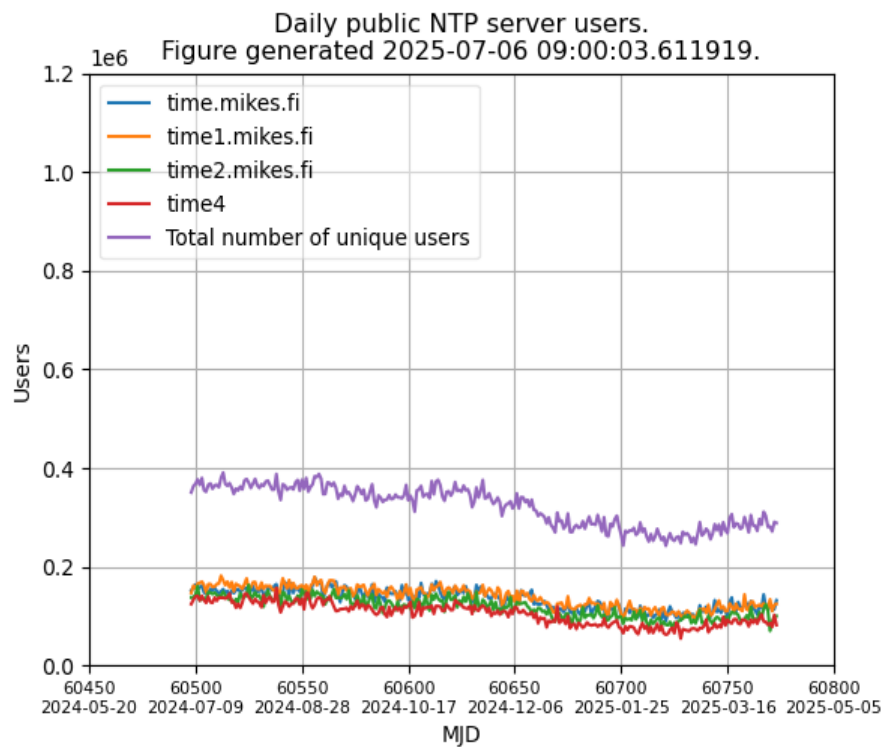
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Rank Weight Lab

1 20.243 SU
2 17.510 NTSC
3 14.211 USNO
4 10.316 NIM
5 4.862 PTB
6 4.439 F
7 4.222 SP
8 3.671 PL
9 3.566 IT
10 2.925 NICT
11 2.439 NPLI
12 1.747 KRIS
13 1.739 NRC
14 1.699 SMD
15 1.327 ORB
16 1.191 JV
17 0.899 NIST
18 0.676 CH
19 0.472 DFM
20 0.343 VSL
21 0.326 BY
22 0.206 BEV
23 0.126 SCL
24 0.121 UAE
25 0.110 ROA
26 0.066 ESA
27 0.064 KZ
28 0.061 BIRM
29 0.051 MIKE
30 0.048 JATC
31 0.048 ONRJ
32 0.041 TP
33 0.039 TL
34 0.029 NPL
35 0.027 NAO
36 0.019 NIMT
37 0.011 AUS
38 0.011 HKO
39 0.009 INPL
40 0.009 NIS
41 0.008 NSAI

NTP Usage Statistics

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



End of Bulletin.