

UTC(MIKE) Atomic Bulletin 2025-12

VTT MIKES Metrology monthly Time & Frequency bulletin.

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

Date of publication: 2025-12-12 (61021)

Circular-T issues used for analysis: [450](#), [451](#), [452](#), [453](#), [454](#), [455](#),

First day of analysis interval: 2025-06-03 (60829)

Last day of analysis interval: 2025-11-30 (61009)

ClockData for analysis: [CDMI 25.06](#), [CDMI 25.07](#), [CDMI 25.08](#), [CDMI 25.09](#), [CDMI 25.10](#), [CDMI 25.11](#),

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 $-7\text{e-}15 = +18\text{ ns/30days}$.

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

60845 (2025-06-19) AB2025-06: fit to 6 months. set steering to $+20\text{ns/60days} = -3.8\text{e-}15$.

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

60898 (2025-08-11) AB2025-08: keep steering $+20\text{ns/60days} = -3.8\text{e-}15$.

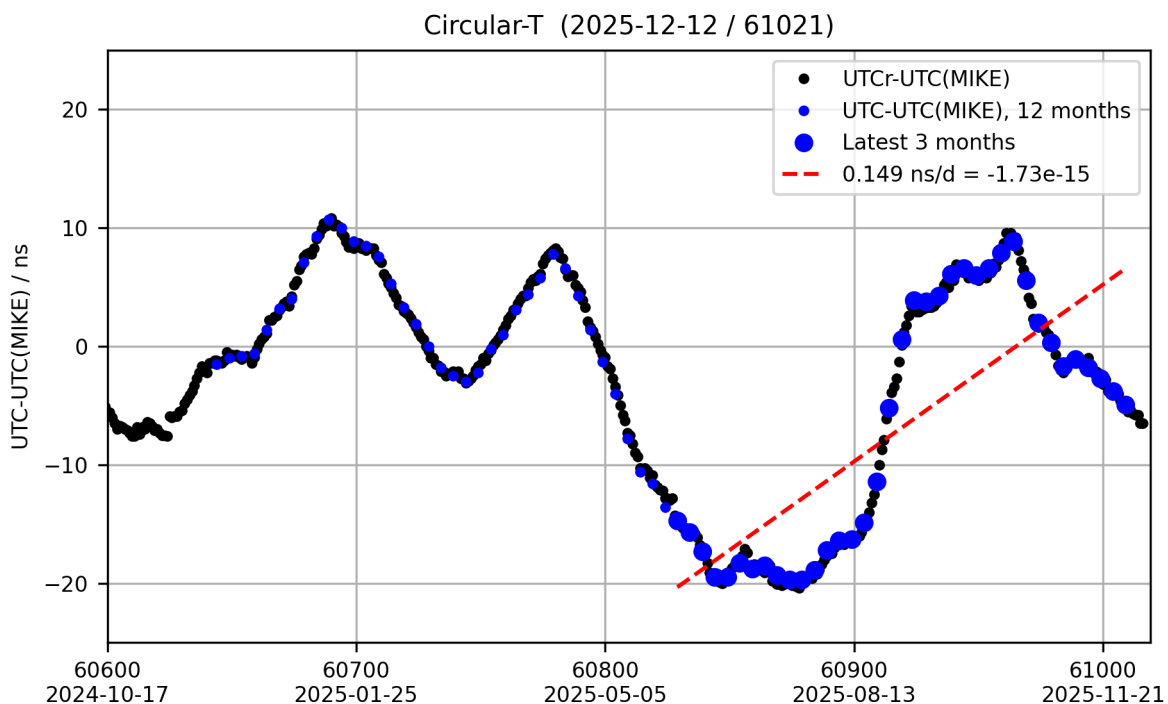
60919 (2025-09-01) set steering to zero.

60923 (2025-09-05) set steering $+8\text{e-}15$.

60979 (2025-10-31) AHM3 frequency adjustment $+4\text{e-}12$ at 13:52 UTC.

60983 (2025-11-04) High temperature in maser room.

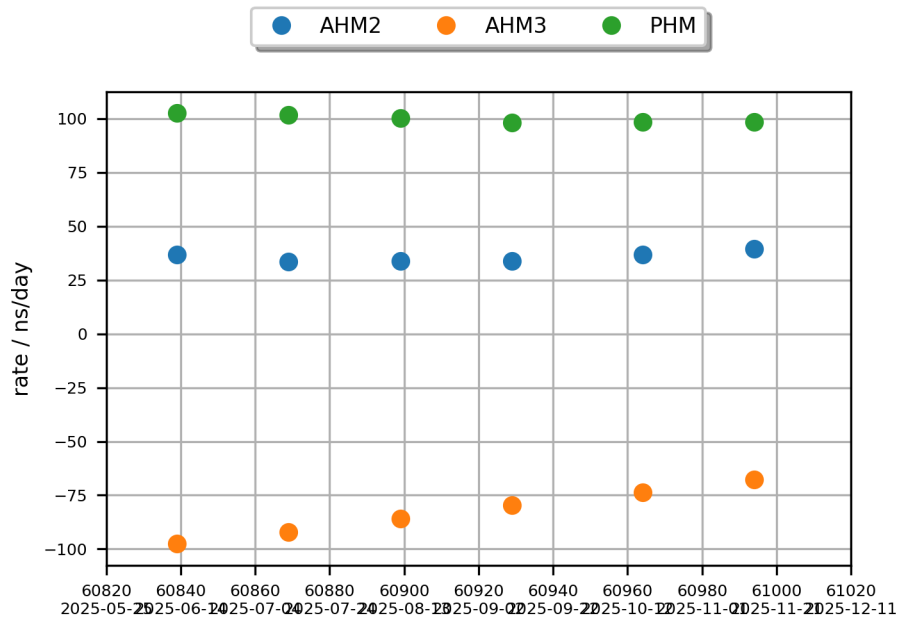
UTC-UTC(MIKE) as reported in Circular-T

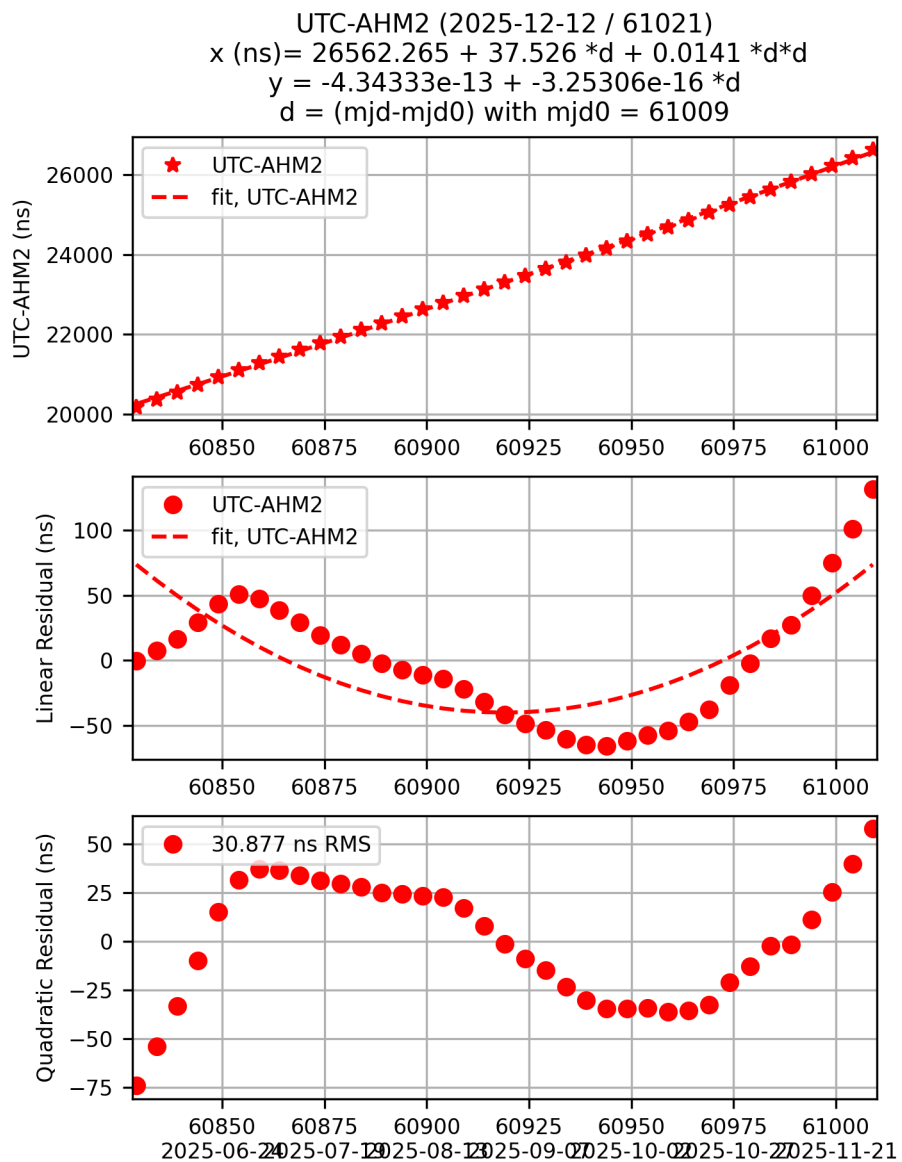


UTC-UTC(MIKE) is available on 5 day intervals on MJD dates ending with 4 or 9. Values are published monthly by the BIPM in Circular-T.

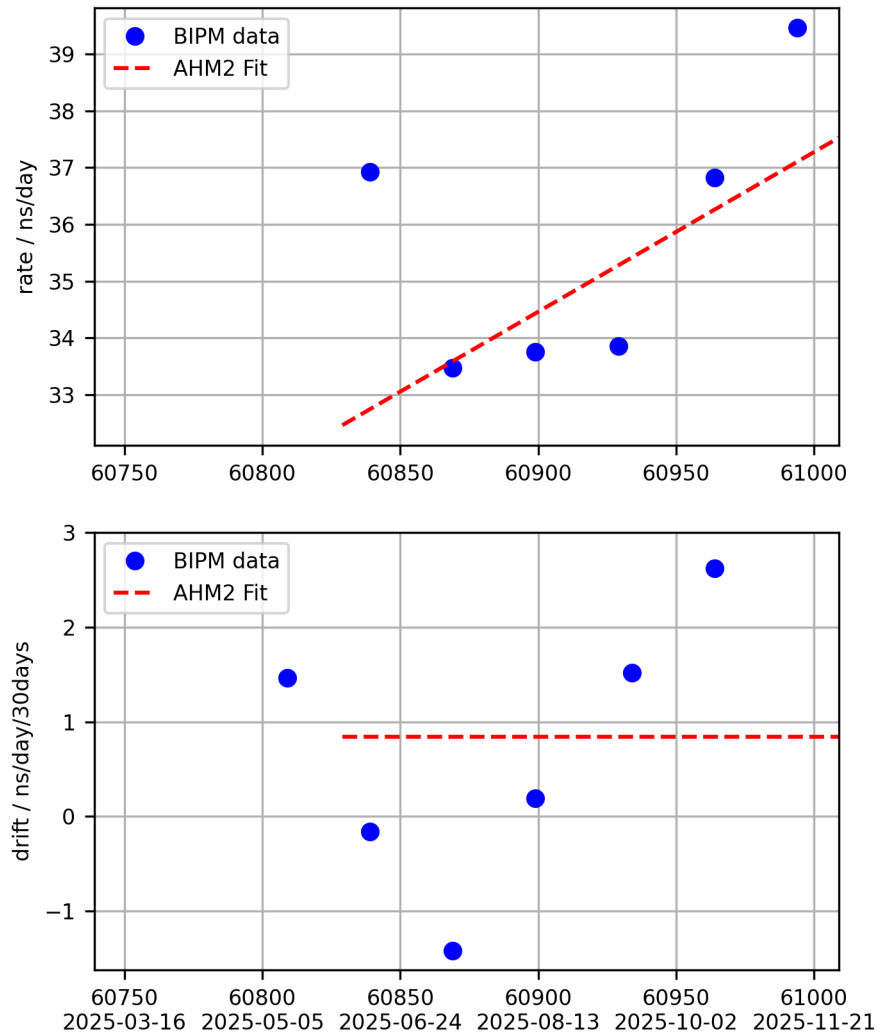
Clock Rates - Summary

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

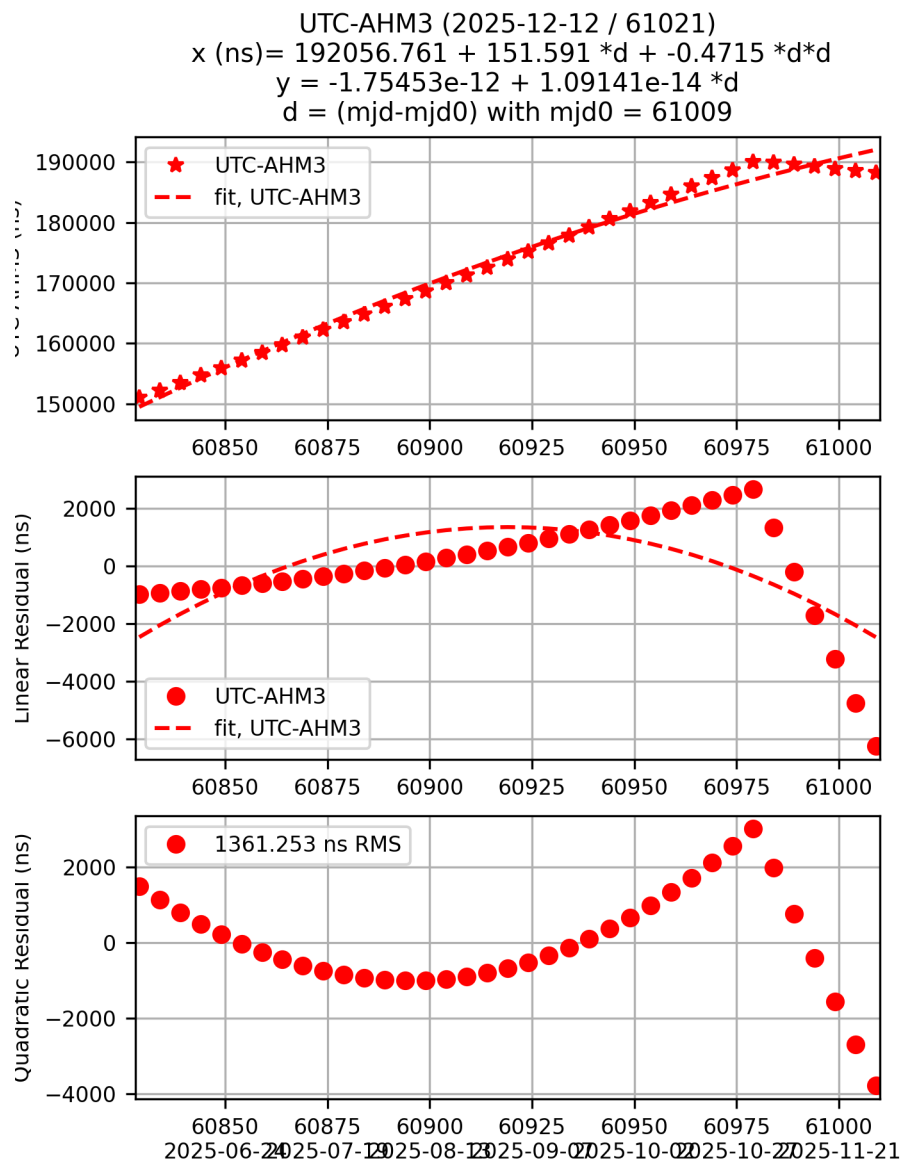


UTC - AHM2 Fit

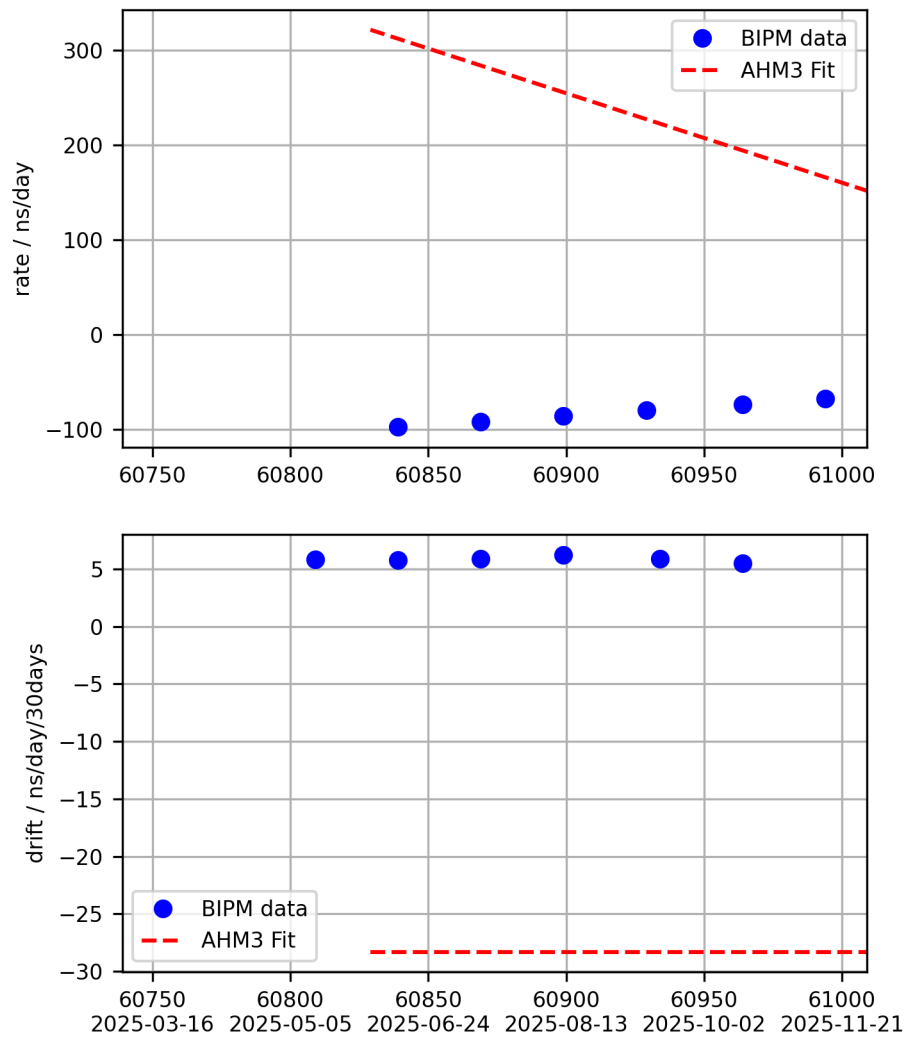
AHM2 Rate and Drift



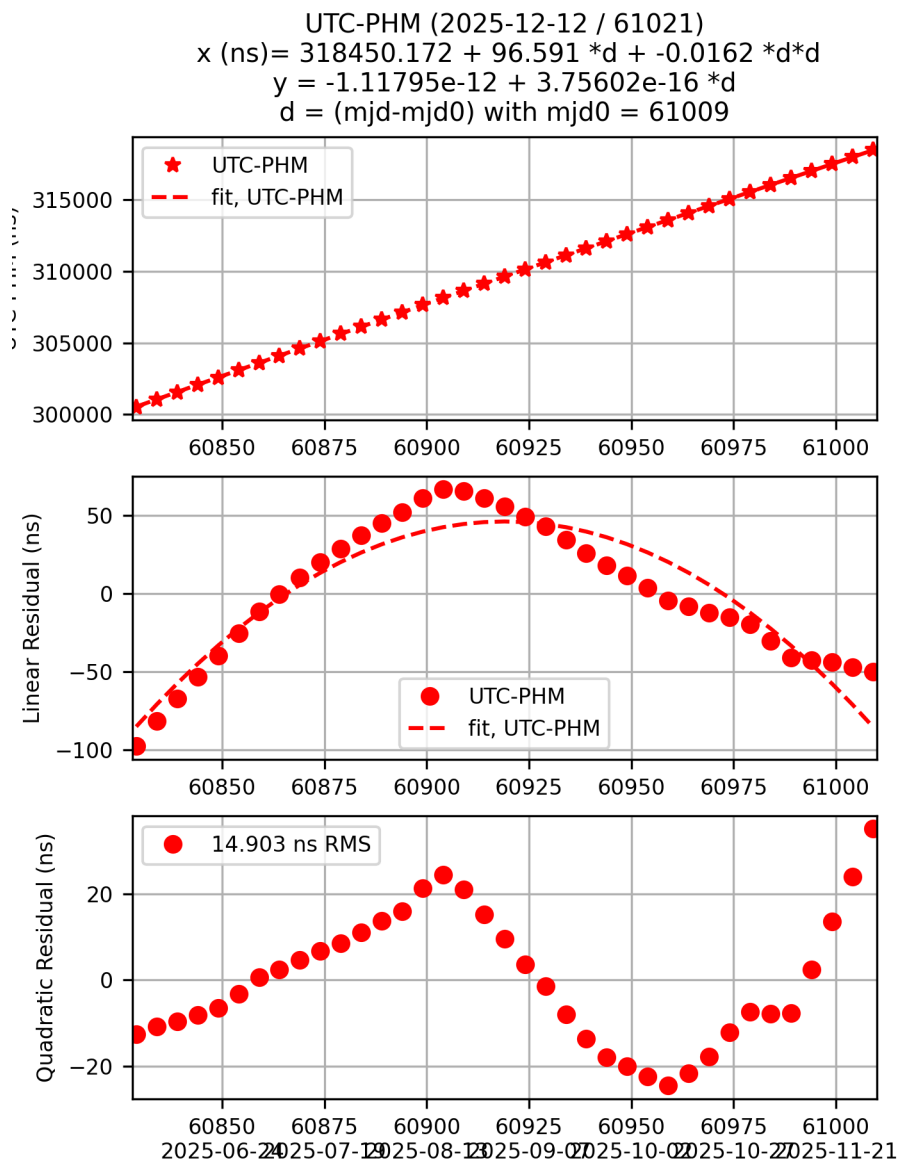
UTC - AHM3 Fit



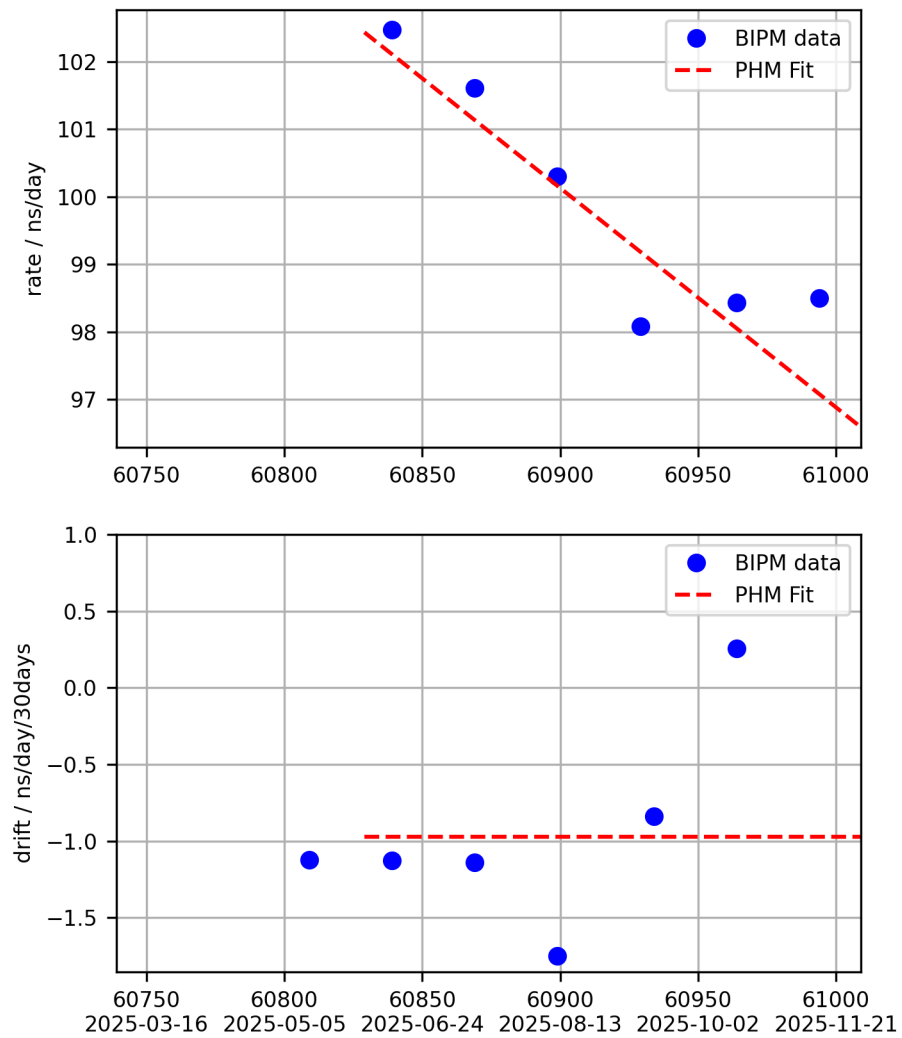
AHM3 Rate and Drift



UTC - PHM Fit

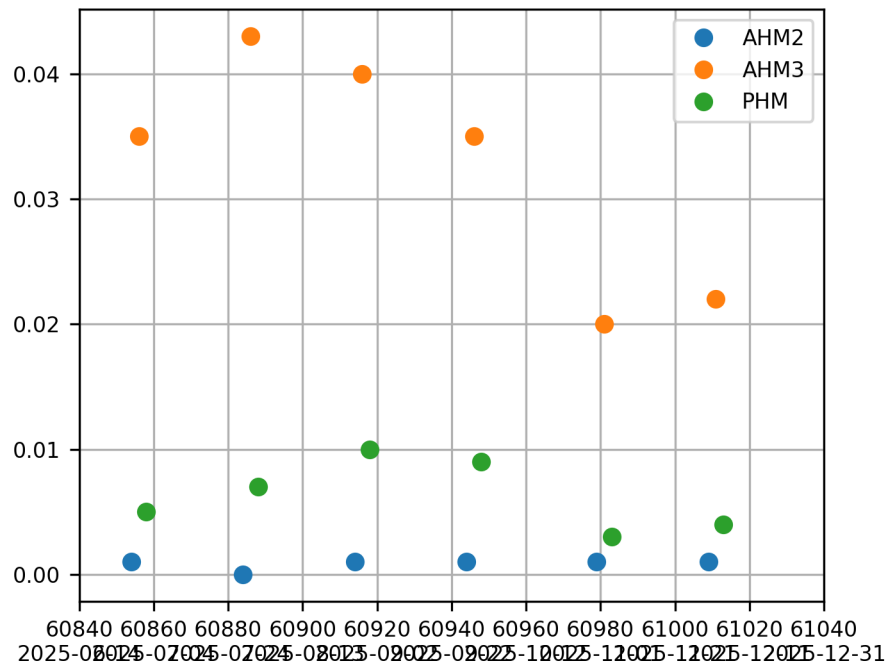


PHM Rate and Drift



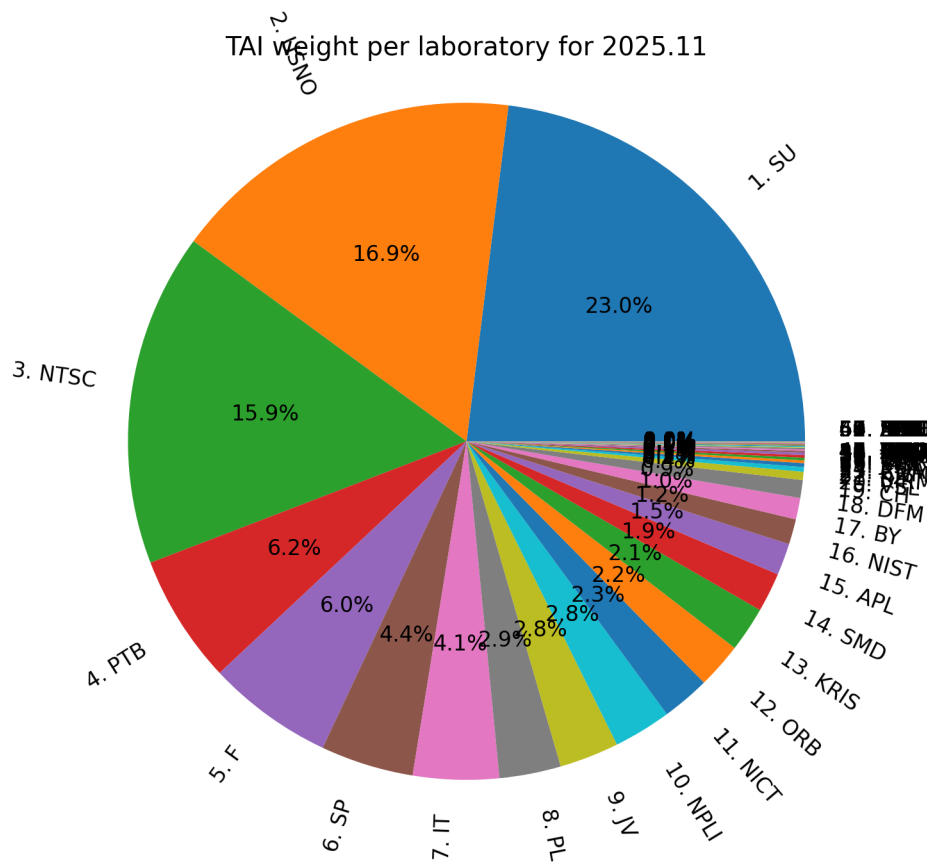
VTT MIKES Clock Weights

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 2025.11

Number of clocks 405

Number of labs 67

Number of clock types 12

Sum of weights per lab 99.997, Sum of weights per clock type 99.997

Weight Clock Type

0.888 35 MICROSEMI 5071A HIGH PERFORMANCE TUBE.

60.637 40 UNSPECIFIED HYDROGEN MASER

31.166 41 HYDROGEN MASER

0.053 36 MICROSEMI 5071A LOW/STANDARD PERFORMANCE TUBE

0.018 18 MICROSEMI Cs 4000

0.001 22 OSCILLOQUARTZ OSA 3230B/3235B

0.056 32 OSCILLOQUARTZ OSA 3300-SHP

0.020 42 Commercial Rubidium clock

0.012 38 Chengdu Spaceon Electronics Company TA1000

0.000 44 Other clocks

7.117 93 GROUND-STATE HYPERFINETRANSITION OF 87 Rb

0.029 92 GROUND-STATE HYPERFINE TRANSITION OF 133 Cs

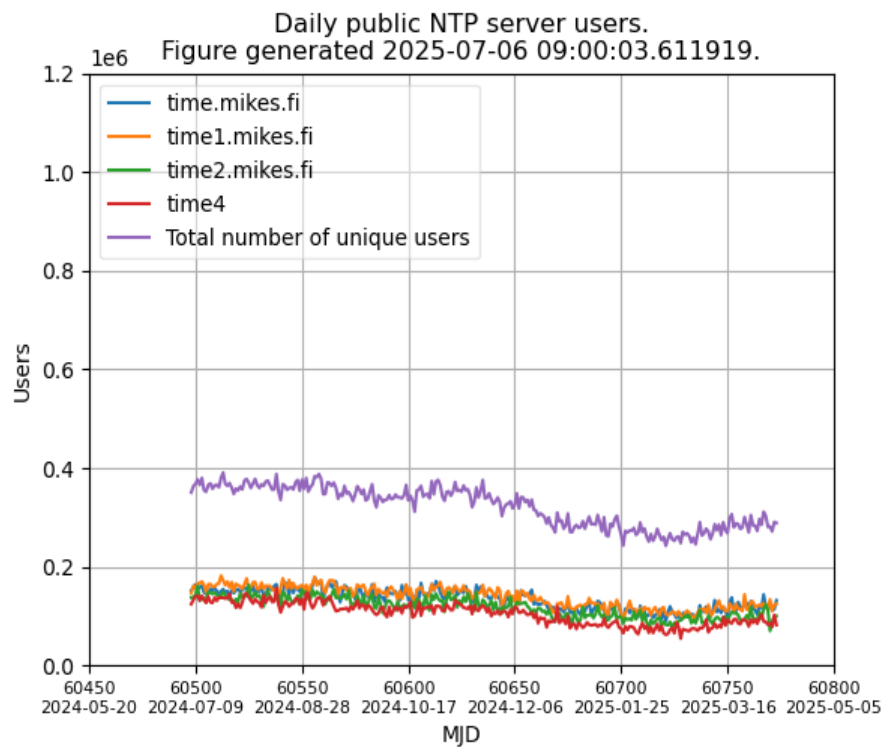
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Rank Weight Lab

1 23.018 SU
2 16.912 USNO
3 15.906 NTSC
4 6.156 PTB
5 6.026 F
6 4.433 SP
7 4.102 IT
8 2.935 PL
9 2.842 JV
10 2.751 NPLI
11 2.289 NICT
12 2.178 ORB
13 2.144 KRIS
14 1.877 SMD
15 1.518 APL
16 1.206 NIST
17 1.022 BY
18 0.854 DFM
19 0.391 CH
20 0.225 VSL
21 0.182 BIRM
22 0.129 KZ
23 0.126 CNM
24 0.124 ROA
25 0.122 ESA
26 0.074 JATC
27 0.073 TL
28 0.069 ONRJ
29 0.041 TP
30 0.038 SCL
31 0.035 BEV
32 0.027 MIKE
33 0.025 NIMT
34 0.024 NPL
35 0.018 BIM
36 0.017 HKO
37 0.017 MSL
38 0.013 NAO
39 0.012 AUS
40 0.011 CNMP
41 0.010 IMBH

NTP Usage Statistics

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



End of Bulletin.