

Table 7. Mean fractional deviation of the TAI scale interval from that of TT

The fractional deviation d of the scale interval of TAI from that of TT (in practice the SI second on the geoid), and its relative uncertainty, are computed by the BIPM for all the intervals of computation of TAI, according to the method described in 'Azoubib J., Granveaud M., Guinot B., *Metrologia* 1977, **13**, pp. 87-93', using all available measurements from the most accurate primary frequency standards (PFS) IT-CSF1, NICT-CSF1, NICT-O1, NIST-F1, NMIJ-F1, NPL-CSF1, PTB-CS1, PTB-CS2, PTB-CSF1, SYRTE-FO1, SYRTE-FO2, SYRTE-FOM and SYRTE-JPO consistently corrected for the black-body radiation shift.

In this computation, for the PFS evaluations carried out after Jan. 2005, the uncertainty of the link to TAI has been computed using the standard uncertainty of [UTC-UTC(k)], following the recommendation of the CCTF working group on PFS. The model for the instability of EAL has been expressed as the quadratic sum of three components: a white frequency noise $2.0 \times 10^{-15} / \sqrt{(\tau)}$, a flicker frequency noise 0.4×10^{-15} and a random walk frequency noise $1.0 \times 10^{-16} \chi(\tau)$, with τ in days. The relation between EAL and TAI is given in Table 5.

Month	Interval	$d/10^{-15}$	uncertainty/ 10^{-15}
Jan. 2005	53369-53399	+4.8	0.5
Feb. 2005	53399-53429	+5.9	0.9
Mar. 2005	53429-53459	+5.9	1.1
Apr. 2005	53459-53489	+6.1	1.0
May 2005	53489-53519	+6.5	0.8
Jun. 2005	53519-53549	+6.4	0.7
Jul. 2005	53549-53579	+6.1	0.7
Aug. 2005	53579-53609	+6.0	0.8
Sep. 2005	53609-53639	+5.1	0.8
Oct. 2005	53639-53674	+5.0	0.5
Nov. 2005	53674-53704	+4.5	1.0
Dec. 2005	53704-53734	+4.1	0.9
Jan. 2006	53734-53764	+3.4	0.6
Feb. 2006	53764-53794	+2.7	0.5
Mar. 2006	53794-53824	+2.6	0.6
Apr. 2006	53824-53854	+2.6	1.0
May 2006	53854-53884	+2.6	1.1
Jun. 2006	53884-53914	+2.8	1.1
Jul. 2006	53914-53944	+3.2	0.8
Aug. 2006	53944-53974	+2.8	1.0
Sep. 2006	53974-54004	+2.9	1.0
Oct. 2006	54004-54039	+2.7	0.5
Nov. 2006	54039-54069	+1.5	0.5
Dec. 2006	54069-54099	+1.5	0.5
Jan. 2007	54099-54129	+1.3	0.9
Feb. 2007	54129-54159	+1.0	0.6
Mar. 2007	54159-54189	+1.9	0.9
Apr. 2007	54189-54219	+2.7	0.3
May 2007	54219-54249	+3.4	0.5
Jun. 2007	54249-54279	+2.5	0.5
Jul. 2007	54279-54309	+2.6	0.5
Aug. 2007	54309-54339	+3.7	0.4
Sep. 2007	54339-54369	+4.0	0.6
Oct. 2007	54369-54404	+3.3	0.4
Nov. 2007	54404-54434	+3.4	0.6
Dec. 2007	54434-54464	+4.1	0.8