

**Table 7. Mean fractional deviation of the TAI scale interval from that of TT**(File available at <ftp://62.161.69.5/pub/tai/scale/sitai12.ar>)

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, 87-93](#)', using all available measurements from the most accurate primary frequency standards (PFS) IT-CSF1, KRISS-1, NICT-CSF1, NIST-F1, NMIJ-F1, NPL-CSF1, NPL-CSF2, PTB-CS1, PTB-CS2, PTB-CSF1, PTB-CSF2, SYRTE-FO1, SYRTE-FO2, SYRTE-FOM and SYRTE-JPO, consistently corrected for the black-body radiation shift.

In this computation, 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  $1.7 \times 10^{-15}/\sqrt{(\tau)}$ , a flicker frequency noise  $0.35 \times 10^{-15}$  and a random walk frequency noise  $0.55 \times 10^{-16}\chi\sqrt{(\tau)}$ , with  $\tau$  in days. The relation between EAL and TAI is given in [Table 5](#).

Month	Interval	$d/10^{-15}$	uncertainty/ $10^{-15}$
Jan. 2010	55194-55224	+4.7	0.3
Feb. 2010	55224-55254	+4.5	0.4
Mar. 2010	55254-55284	+4.8	0.4
Apr. 2010	55284-55314	+5.3	0.4
May 2010	55314-55344	+5.6	0.4
Jun. 2010	55344-55374	+6.6	0.4
Jul. 2010	55374-55404	+5.7	0.4
Aug. 2010	55404-55439	+5.6	0.3
Sep. 2010	55439-55469	+6.7	0.4
Oct. 2010	55469-55499	+6.5	0.4
Nov. 2010	55499-55529	+6.7	0.5
Dec. 2010	55529-55559	+6.0	0.4
Jan. 2011	55559-55589	+6.5	0.4
Feb. 2011	55589-55619	+6.2	0.5
Mar. 2011	55619-55649	+5.8	0.3
Apr. 2011	55649-55679	+6.0	0.3
May 2011	55679-55709	+5.7	0.3
Jun. 2011	55709-55739	+6.2	0.3
Jul. 2011	55739-55769	+5.9	0.4
Aug. 2011	55769-55804	+5.4	0.3
Sep. 2011	55804-55834	+5.0	0.3
Oct. 2011	55834-55864	+4.6	0.4
Nov. 2011	55864-55894	+3.9	0.2
Dec. 2011	55894-55924	+3.0	0.3
Jan. 2012	55924-55954	+3.5	0.2
Feb. 2012	55954-55984	+3.2	0.2
Mar. 2012	55984-56014	+3.8	0.3
Apr. 2012	56014-56044	+2.6	0.2
May 2012	56044-56074	+2.5	0.2
Jun. 2012	56074-56104	+2.5	0.2
Jul. 2012	56104-56139	+1.6	0.3
Aug. 2012	56139-56169	+0.6	0.2
Sep. 2012	56169-56199	+0.3	0.3
Oct. 2012	56199-56229	-0.2	0.3
Nov. 2012	56229-56259	-0.3	0.3
Dec. 2012	56259-56289	-0.3	0.3