

**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/sitai15.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, pp. 87-93](#)’, using all available measurements from the most accurate primary frequency standards (PFS) IT-CSF1, IT-CSF2, NICT-CSF1, NIM5, NIST-F1, NIST-F2, NMIJ-F1, NPL-CSF2, NPLI-CSF1, PTB-CS1, PTB-CS2, PTB-CSF1, PTB-CSF2, SU-CSFO2, SYRTE-FO1, SYRTE-FO2, SYRTE-FOM and secondary frequency standard (SFS) SYRTE-FORb 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  $1.7 \times 10^{-15}/\sqrt{\tau}$  in 2013 and 2014 and  $1.4 \times 10^{-15}/\sqrt{\tau}$  in 2015, a flicker frequency noise  $0.35 \times 10^{-15}$  in 2013 and 2014 and  $0.3 \times 10^{-15}$  in 2015 and a random walk frequency noise  $0.4 \times 10^{-16} \times \sqrt{\tau}$  in 2013 and  $0.2 \times 10^{-16} \times \sqrt{\tau}$  in 2014 and in 2015, with  $\tau$  in days. The relation between EAL and TAI is given in [Table 5](#).

Month	Interval	$d/10^{-15}$	uncertainty/ $10^{-15}$
Jan. 2013	56289-56319	-0.09	0.20
Feb. 2013	56319-56349	+0.11	0.22
Mar. 2013	56349-56379	+0.57	0.22
Apr. 2013	56379-56409	-0.16	0.21
May 2013	56409-56439	-0.27	0.19
Jun. 2013	56439-56469	+0.05	0.24
Jul. 2013	56469-56504	-0.39	0.21
Aug. 2013	56504-56534	-0.61	0.26
Sep. 2013	56534-56564	+0.30	0.25
Oct. 2013	56564-56594	+0.29	0.21
Nov. 2013	56594-56624	+0.32	0.21
Dec. 2013	56624-56654	-0.42	0.24
Jan. 2014	56654-56684	+0.32	0.25
Feb. 2014	56684-56714	-0.27	0.20
Mar. 2014	56714-56744	-0.64	0.21
Apr. 2014	56744-56774	-0.49	0.19
May 2014	56774-56804	-0.83	0.21
Jun. 2014	56804-56834	-0.86	0.23
Jul. 2014	56834-56869	-0.29	0.22
Aug. 2014	56869-56899	+0.42	0.19
Sep. 2014	56899-56929	+0.20	0.18
Oct. 2014	56929-56959	+0.37	0.20
Nov. 2014	56959-56989	+0.64	0.26
Dec. 2014	56989-57019	+0.48	0.25
Jan. 2015	57019-57049	+0.08	0.27
Feb. 2015	57049-57079	-0.48	0.24
Mar. 2015	57079-57109	-0.18	0.23
Apr. 2015	57109-57139	-0.14	0.23
May 2015	57139-57169	+0.34	0.21
Jun. 2015	57169-57199	+0.81	0.18
Jul. 2015	57199-57234	+0.52	0.25
Aug. 2015	57234-57264	+0.31	0.26
Sep. 2015	57264-57294	+0.07	0.21
Oct. 2015	57294-57324	+0.26	0.24
Nov. 2015	57324-57354	+0.05	0.31
Dec. 2015	57354-57384	+0.01	0.37