

**BUREAU INTERNATIONAL DES POIDS ET MESURES**

Key comparison CCTF-K001.UTC - Results  
 Degrees of equivalence  $D_k = [UTC - UTC(k)]$  for January 2020  
 Computed 2020 FEBRUARY 11, 14h UTC

Coordinated Universal Time **UTC** and its local realizations **UTC(k)** in National Metrology Institutes and Designated Institutes.

Computed values of  $[UTC - UTC(k)]$  and uncertainties valid for the period of this publication

Date 2019/20 0h UTC	JAN 1	JAN 6	JAN 11	JAN 16	JAN 21	JAN 26	JAN 31	Uncertainty/ns
MJD	58849	58854	58859	58864	58869	58874	58879	
Laboratory <i>k</i>	$[UTC - UTC(k)]/ns$							$U_k$
BelGIM	0.0	0.0	0.0	-0.4	-0.1	-0.1	-0.2	24.6
BEV	0.9	-1.2	-8.5	-11.0	-22.2	-22.1	-28.0	7.0
BFKH	257.0	270.3	286.6	307.8	328.1	344.6	368.6	40.2
BIM	12087.5	12116.2	12147.2	12165.0	12192.1	12210.6	12248.4	14.2
BMM	133.1	153.0	172.8	187.8	-	252.1	269.7	40.0
BOM	-3009.7	-3023.3	-3040.9	-3059.1	-3091.9	-3116.3	-3142.0	17.4
CENAM	-6.0	2.3	-1.4	-1.0	-0.1	-0.8	-1.9	23.0
CENAMAP AIP	6.7	2.3	-10.0	0.9	-1.5	14.9	-4.2	15.0
DEF-NAT	16521.2	16741.4	16987.5	17201.0	17445.4	17644.2	17859.9	40.0
DMDM	12.5	8.4	8.6	6.0	-1.8	-11.3	-9.1	7.0
EIM	0.0	-0.5	0.6	6.5	-1.9	7.1	6.6	23.2
EMI	6.8	3.3	8.1	15.2	3.5	-0.5	14.7	19.4
ESA	-0.6	-0.8	-0.5	0.2	0.5	0.9	0.7	6.6
FTMC	981.2	1005.1	1003.4	1003.4	990.7	979.8	967.2	5.6
GUM	-24.2	-19.2	-14.2	-9.0	-3.7	2.1	7.4	6.6
ILNAS	14.5	11.0	12.5	8.1	5.4	2.3	-5.5	6.0
IMBIH	-0.1	0.0	1.0	1.8	0.1	1.2	1.5	5.4
INACAL	11.9	21.6	13.9	16.9	25.3	48.4	57.3	41.2
INM	8009.2	8064.2	8115.9	8165.0	8212.8	8262.6	8307.1	15.0
INM(CO)	-	-	-	-	-1.2	-7.2	-7.5	40.2
INMETRO	-0.7	0.0	-4.1	-13.3	-12.7	-12.6	-3.3	40.0
INPL	4.5	7.0	-2.2	-2.3	-2.1	-7.0	-8.7	14.6
INRIM	3.5	4.5	5.3	5.0	4.0	2.4	0.7	2.4
INTI	40.0	32.5	29.4	44.2	37.5	44.9	40.2	40.4
IPE/ASCR	25.0	42.6	42.9	43.3	32.2	24.0	18.2	5.4
IPQ	-	189.1	188.7	183.6	186.8	188.2	194.9	40.0

JV	-4.2	2.8	-1.5	-3.5	11.0	7.1	4.6	8.6
KRISS	16.3	15.3	13.8	12.1	10.8	10.4	10.7	6.2
LACOMET	11.1	4.9	18.7	27.5	28.3	31.7	26.2	41.2
LNE-SYRTE	1.2	1.5	1.8	1.9	1.4	1.6	1.3	2.4
MASM	-174.4	-211.8	-241.7	-270.2	-300.4	-330.6	-367.3	5.8
METAS	3.7	5.5	5.6	3.8	5.3	5.6	4.2	4.6
MIKES	-5.5	-6.0	-6.3	-6.5	-6.5	-6.4	-6.5	9.2
MIRS/SIQ/Metrology	-	-	176.8	179.0	165.3	159.3	147.2	15.2
MSL	202.1	175.1	151.3	111.1	84.1	-	28.6	40.2
MUSSD	109.1	108.5	99.0	96.9	98.9	93.2	91.3	5.4
NICT	2.1	2.1	0.7	1.7	1.5	0.8	-0.1	4.2
NIM	0.0	-1.0	-1.0	-1.6	-1.4	-1.7	-0.8	4.0
NIMT	-	-	-	-	-	-	-	-
NIS	-16.1	-14.0	-12.5	-12.1	-11.6	-4.2	-5.1	40.0
NIST	-0.8	-1.5	-2.0	-0.9	0.6	1.3	1.5	4.0
NMC, A*STAR	-18.0	-11.8	-1.5	12.3	26.0	19.4	10.3	5.4
NMIA	-374.7	-367.4	-365.7	-364.7	-365.9	-369.1	-368.0	13.2
NMIJ AIST	1.2	0.3	-0.3	-0.1	-1.1	-0.2	0.6	7.4
NMIM	-1537.8	-1563.3	-1599.5	-1638.1	-1666.4	-1699.7	-1735.6	8.8
NMISA	0.2	0.5	0.6	2.4	5.8	8.0	9.0	5.6
NPL	3.1	4.7	5.1	5.6	6.6	5.9	4.6	5.4
NPLI	8.0	5.6	5.1	5.7	7.9	6.1	4.0	5.8
NRC	-16.0	-16.9	-24.8	-26.8	-24.1	-20.2	-25.4	6.2
NSC IM	-8.5	-11.6	-11.6	-4.7	0.2	1.9	4.2	19.0
ON/DSHO	3.9	7.5	6.1	11.7	7.2	-4.2	3.8	40.0
PTB	2.4	2.7	2.5	2.3	2.0	1.8	1.7	1.2
RISE	1.9	1.7	1.5	1.7	1.9	2.5	3.0	2.4
ROA	-3.4	-2.7	-3.1	-3.2	-4.0	-3.6	-3.1	2.4
SASO	-1032.8	-1046.8	-1055.5	-1072.9	-1075.8	-1082.0	-1083.6	6.0
SCL	12.3	13.5	17.0	22.1	28.1	33.1	37.5	6.2
SMD	-9.4	-4.4	-9.2	-4.4	-4.3	-6.5	-4.2	6.4
SMU	-99.9	-110.5	-116.8	-121.4	-127.3	-117.2	-110.2	24.6
SNSU-BSN	1670.5	1672.2	1694.5	1711.4	1714.8	1729.4	1736.4	5.6
TL	2.9	3.2	3.9	4.7	4.9	5.4	5.9	4.2
UME	48.9	51.9	54.8	53.1	65.4	63.8	61.9	7.0
VMI-STAMEQ	-	-	-	49.5	49.2	33.3	25.6	15.0
VNIFTRI	2.0	2.0	1.8	1.6	1.8	1.9	2.0	4.2
VSL	-1.9	0.5	-9.7	-8.4	-7.8	0.7	-2.6	3.4