

BUREAU INTERNATIONAL DES POIDS ET MESURES
(BIPM)

Circular T 2 (1988 April 1)

1 - COORDINATED UNIVERSAL TIME UTC

(Since 1988 January 1, Oh UTC, TAI-UTC = 24s)

A - Computed values of UTC-UTC(i)

Date 1988 (Oh UTC)	FEV 8	FEV 18	FEV 28
MJD	47199	47209	47219
Laboratory i	UTC-UTC(i) (Unit = 1 microsecond)		
AOS (Borowiec)	1.18	1.59	1.88
APL (Laurel)	0.05	0.07	0.07
ASMW (Berlin)	0.03	-0.06	0.08
AUS (Canberra)	-12.28	-12.43	-12.55
BEV (Wien)	-2.98	-3.73	-4.47
CAO (Cagliari)	0.44	0.64	0.94
CH (Berne)	1.56	1.55	1.54
CRL (Tokyo) (1)	-1.15	-1.36	-1.52
CSAO (Shaanxi)	0.70	0.73	0.69
FTZ (Darmstadt)	15.48	15.71	15.97
IEN (Torino)	-1.24	-1.28	-1.31
IFAG (Wetzell)	-3.52	-3.03	-2.40
ILOM (Mizusawa)	-35.49	-35.58	-35.68
INPL (Jerusalem)	53.60	54.73	55.79
JATC (Xian)	1.35	1.30	1.29
KSRI (Daejeon)	-4.43	-4.87	-5.28
NBS (Boulder)	-0.39	-0.45	-0.52
NIM (Beijing)	10.09	10.11	10.07
NPL (Teddington)	4.08	4.14	4.16
NPLI (New-Delhi) (2)	-8.57	-8.90	-
NRC (Ottawa)	-9.80	-9.63	-9.52
NRLM (Tsukuba)	-22.52	-22.69	-22.87
OMH (Budapest)	-	-	-
OMSF (San Fernando)	3.63	3.64	3.64
OP (Paris)	-0.25	-0.32	-0.39
ORB (Bruxelles)	-47.49	-47.94	-48.37
PKNM (Warsaw)	-1.76	-1.57	-1.37
PTB (Braunschweig)	4.26	4.27	4.29
SO (Shanghai)	2.00	1.95	1.97
STA (Stokholm)	0.33	0.41	0.50
SU (Moscow)	21.31	21.16	21.08
TAO (Tokyo)	-1.79	-1.80	-1.83
TL (Taiwan)	264.51	266.03	267.53
TP (Praha)	-0.46	-0.20	0.06
TUG (Graz)	-2.84	-2.56	-2.26
USNO (Washington) (USNO MC)	-4.40	-4.34	-4.27
VSL (Delft)	3.98	3.96	3.98
YUZM (Beograd)	1.01	0.75	0.39
ZIPE (Potsdam)	0.31	0.44	0.41

(1) CRL . Radio Research Laboratory (RRL) has been renamed :
Communications Research Laboratory (CRL).

(2) NPLI. MJD = 47189 UTC - UTC(NPLI) = -8.26 μ s

B - Direct measurement of UTC(i)-UTC(j) by clock transportation

Date 1988	MJD	Time comparisons (Unit : 1 microsecond)	uncert.	source
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MAR 4	47224.23	UTC(CRL) - UTC(TAO)	= -0.261	0.005 CRL letter
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2 - INTERNATIONAL ATOMIC TIME TAI AND LOCAL ATOMIC TIME SCALES TA(i)

A - Computed values of TAI-TA(i)

Date 1988 (Oh UTC)	MJD	FEV 8 47199	FEV 18 47209	FEV 28 47219
Laboratory i		TAI-TA(i)	(Unit = 1 microsecond)	
AOS (Borowiec)		-82.63	-84.47	-86.43
CH (Berne)		-47.33	-47.53	-47.72
CRL (Tokyo) (1)		-3.02	-3.18	-3.32
DDR (Berlin)		-25.26	-25.64	-25.86
F (Paris)		51.04	51.42	51.79
JATC(Xian) (2)		-0.61	-0.54	-0.42
NBS (Boulder)		-45106.87	-45107.24	-45107.62
NIM (Beijing)		-7.58	-7.51	-7.49
NRC (Ottawa)		21.26	21.44	21.55
PTB (Braunschweig)		-359.14	-359.13	-359.11
SO (Shanghai)		-45.64	-45.69	-45.75
SU (Moscow)		2827271.31	2827271.16	2827271.08
USNO(Washington) (3)		-34553.39	-34553.97	-34554.50

(1) CRL . See Note (1) in section 1-A.

(2) JATC. Corrected values

MJD	TAI-TA(JATC)
47169	-0.31
47179	-0.26
47189	-0.26

(3) TA(USNO) is designated by A1(MEAN) by USNO.

B - Duration of the TAI scale interval (BIPM evaluation)

For JAN.1988-FEB.1988 $1+0.1*10^{**}-13$ +OR- $1.0*10^{**}-13$

in SI second at sea level, based on NBS, NRC, PTB, CRL and SU data.