

BUREAU INTERNATIONAL DES POIDS ET MESURES

(BIPM)

Circular T 1 (1988 March 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)	JAN 9	JAN 19	JAN 29
MJD	47169	47179	47189
Laboratory i	UTC-UTC(i)	(Unit = 1 microsecond)	
AOS (Borowiec)	0.49	0.69	1.02
APL (Laurel) (1)	0.02	0.01	0.03
ASMW (Berlin)	0.21	0.10	0.09
AUS (Canberra)	-11.89	-12.02	-12.15
BEV (Wien)	-2.12	-2.51	-3.04
CAO (Cagliari)	0.07	0.12	0.22
CH (Berne)	1.53	1.53	1.55
CSAO (Shaanxi)	0.89	0.75	0.78
FTZ (Darmstadt)	14.74	14.95	15.21
IEN (Torino)	-1.26	-1.25	-1.24
IFAG (Wetzell)	-4.33	-4.08	-3.73
ILOM (Mizusawa)	-35.16	-35.28	-35.36
INPL (Jerusalem)	50.11	51.22	52.39
JATC (Xian) (2)	1.73	1.55	1.45
KSRI (Daejeon)	-3.08	-3.56	-4.04
NBS (Boulder)	-0.19	-0.27	-0.33
NIM (Beijing)	10.39	10.17	10.10
NPL (Teddington)	3.95	3.97	4.01
NPLI (New-Delhi)	-7.53	-7.94	-
NRC (Ottawa)	-10.28	-10.13	-9.95
NRLM (Tsukuba)	-21.99	-22.18	-22.36
OMH (Budapest)	-	-	-
OMSF (San Fernando)	3.42	3.45	3.54
OP (Paris)	0.18	0.04	-0.10
ORB (Bruxelles)	-46.03	-46.52	-47.01
PKNM (Warsaw)	-2.54	-2.09	-1.86
PTB (Braunschweig)	4.31	4.27	4.26
RRL (Tokyo)	-0.74	-0.86	-0.99
SO (Shanghai)	2.71	2.52	2.24
STA (Stokholm)	-0.01	0.14	0.23
SU (Moscow)	21.46	21.24	21.51
TAO (Tokyo)	-1.75	-1.78	-1.78
TL (Taiwan)	260.28	262.07	263.06
TP (Praha) (3)	-0.92	-0.52	-0.42
TUG (Graz)	-3.64	-3.40	-3.13
USNO (Washington) (USNO MC)	-4.53	-4.51	-4.46
VSL (Delft)	4.16	4.13	4.06
YUZM (Beograd)	1.84	1.61	1.20
ZIPE (Potsdam)	-0.24	-0.07	0.13

(1) APL . Time step of UTC(APL) of -1150 ns on MJD=47159.01

(2) JATC. MJD = 47129 UTC - UTC(JATC) = 2.32 μ s

(3) TP . Time step of UTC(TP) of 5000 ns on MJD=47161.00

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

Date	MJD	Time comparisons	uncert.	source
1988		(Unit : 1 microsecond)		
JAN 6	47166.06*	UTC(RRL) - UTC(TAO) = -1.059	0.005	RRL message
JAN 27	47187.05	UTC(TAO) - UTC(RRL) = 0.803	0.005	TAO message

* erroneously reported for 1987 JAN. 6 in Circular D255

2 - INTERNATIONAL ATOMIC TIME TAI AND LOCAL ATOMIC TIME SCALES TA(i)

A - Computed values of TAI-TA(i)

Date 1988 (Oh UTC)	JAN 9	JAN 19	JAN 29
MJD	47169	47179	47189
Laboratory i	TAI-TA(i) (Unit = 1 microsecond)		
AOS (Borowiec)	-76.56	-78.62	-80.54
CH (Berne)	-46.82	-47.01	-47.16
DDR (Berlin)	-24.36	-24.68	-24.95
F (Paris)	49.85	50.23	50.64
JATC(Xian) (1)	-2.93	-3.73	-4.64
NBS (Boulder)	-45105.74	-45106.14	-45106.51
NIM (Beijing)	-7.40	-7.55	-7.60
NRC (Ottawa)	20.79	20.94	21.12
PTB (Braunschweig)	-359.08	-359.13	-359.14
RRL (Tokyo)	-2.73	-2.81	-2.90
SO (Shanghai)	-44.97	-45.14	-45.39
SU (Moscow)	2827271.46	2827271.24	2827271.51
USNO(Washington) (2)	-34551.67	-34552.27	-34552.85

(1) JATC. MJD = 47129 TAI - TA(JATC) = -0.68 μ s

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

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

For DEC.1987-JAN.1988 $1+0.1*10^{*-13}$ +OR- $1.0*10^{*-13}$

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