

=====  
 Following IAU Conventions 2000, IERS provides new products dX, dY, celestial pole offsets with respect to the new IAU2000A Precession-Nutation theory

The present Bulletin B version includes the celestial pole offsets dX, dY:

$$dX = X_{obs} - X_{IAU2000A} \text{ and } dY = Y_{obs} - Y_{IAU2000A}$$

where

X\_obs, Y\_obs are the observed coordinates of the Celestial Intermediate Pole (CIP) in the Geocentric Celestial Reference System, and

X\_IAU2000A, Y\_IAU2000A are the celestial pole coordinates provided by using the IAU2000A Precession-Nutation theory.

The current Bulletin B including (dpsi,deps)\_1980 will be maintained as long as necessary.

For more details refer to IERS Messages 38, on IAU 2000 Resolution Compliancy Information.

=====  
 Contents are described in the Explanatory Supplement available at  
<http://hpiers.obspm.fr/eop-pc/>

1 - EARTH ORIENTATION PARAMETERS (IERS evaluation).

The values in this section are samplings of section 2 given at five-day intervals.

Date 2006 (0h UTC)	MJD	x "	y "	UT1R-UTC s	UT1R-TAI s	dX 0.001"	dY 0.001"
--------------------------	-----	--------	--------	---------------	---------------	--------------	--------------

Final Bulletin B values.

APR 4	53829	0.10406	0.37271	0.264960	-32.735040	0.04	-0.23
APR 9	53834	0.10430	0.37085	0.259713	-32.740287	0.08	-0.18
APR 14	53839	0.10320	0.36751	0.254824	-32.745176	0.15	-0.14
APR 19	53844	0.10223	0.36526	0.250105	-32.749895	-0.05	-0.21
APR 24	53849	0.10564	0.36287	0.245099	-32.754901	0.09	-0.30
APR 29	53854	0.10854	0.36124	0.239468	-32.760532	0.08	-0.19
MAY 4	53859	0.10967	0.35802	0.233268	-32.766732	0.08	-0.38

Preliminary extension, to be updated weekly in Bulletin A and monthly in Bulletin B.

MAY 9	53864	0.10803	0.35283	0.227232	-32.772768	0.05	-0.31
MAY 14	53869	0.10861	0.34990	0.220862	-32.779138	0.06	-0.23
MAY 19	53874	0.11137	0.34625	0.214785	-32.785215	0.14	-0.36
MAY 24	53879	0.11357	0.34337	0.210181	-32.789819	0.00	0.00
MAY 29	53884	0.11841	0.33791	0.205932	-32.794068	0.00	0.00
JUN 3	53889	0.12047	0.33401	0.202656	-32.797344	0.00	0.00
JUN 8	53894	0.12187	0.33037	0.200085	-32.799915	0.00	0.00
JUN 13	53899	0.12261	0.32696	0.198536	-32.801464	0.00	0.00
JUN 18	53904	0.12316	0.32356	0.197826	-32.802174	0.00	0.00
JUN 23	53909	0.12336	0.32014	0.197796	-32.802204	0.00	0.00
JUN 28	53914	0.12322	0.31668	0.198315	-32.801685	0.00	0.00
JUL 3	53919	0.12270	0.31318	0.199253	-32.800747	0.00	0.00
JUL 8	53924	0.12180	0.30968	0.200512	-32.799488	0.00	0.00
JUL 13	53929	0.12049	0.30619	0.201977	-32.798023	0.00	0.00
JUL 18	53934	0.11877	0.30274	0.203579	-32.796421	0.00	0.00
JUL 23	53939	0.11660	0.29936	0.205227	-32.794773	0.00	0.00

JUL 28 53944 0.11401 0.29608 0.206844 -32.793156 0.00 0.00

Note. In UT1R, the effects of zonal tides with periods shorter than 35 days are removed ; UT1-UT1R (smaller than 0.0025s in absolute value) should be added after quadratic interpolation of UT1R. Section 2 of this Bulletin gives the daily interpolation of x, y, UT1, duration of day, dX, and dY.

IERS, B 220 (2)

2 - SMOOTHED VALUES OF x, y, UT1, D, dX, dY (IERS EVALUATION)  
 at one-day intervals. For smoothing characteristics, see Table2 in the explanatory supplement. The reference system is described in the 2004 IERS Annual Report.

2006	MJD	x	y	UT1-UTC	UT1-UT1R	D	dX	dY
(0 h UTC)	"	"	"	s	ms	ms	0.001"	0.001"
APR 4	53829	0.10406	0.37271	0.263951	-1.009	0.549	0.04	-0.23
APR 5	53830	0.10443	0.37235	0.263419	-0.461	0.536	0.03	-0.29
APR 6	53831	0.10450	0.37190	0.262851	0.044	0.598	0.07	-0.41
APR 7	53832	0.10428	0.37171	0.262204	0.435	0.706	0.13	-0.45
APR 8	53833	0.10410	0.37141	0.261428	0.669	0.880	0.12	-0.33
APR 9	53834	0.10430	0.37085	0.260443	0.730	1.084	0.08	-0.18
APR 10	53835	0.10442	0.37034	0.259268	0.626	1.213	0.08	-0.16
APR 11	53836	0.10403	0.36950	0.258033	0.393	1.258	0.12	-0.30
APR 12	53837	0.10361	0.36860	0.256773	0.087	1.263	0.15	-0.42
APR 13	53838	0.10343	0.36801	0.255532	-0.222	1.216	0.17	-0.35
APR 14	53839	0.10320	0.36751	0.254364	-0.460	1.107	0.15	-0.14
APR 15	53840	0.10252	0.36693	0.253338	-0.562	0.941	0.11	0.05
APR 16	53841	0.10193	0.36632	0.252492	-0.484	0.753	0.04	0.11
APR 17	53842	0.10194	0.36599	0.251828	-0.217	0.588	-0.03	0.05
APR 18	53843	0.10207	0.36580	0.251299	0.209	0.485	-0.07	-0.08
APR 19	53844	0.10223	0.36526	0.250827	0.721	0.472	-0.05	-0.21
APR 20	53845	0.10290	0.36457	0.250316	1.213	0.561	0.03	-0.33
APR 21	53846	0.10372	0.36413	0.249663	1.562	0.750	0.10	-0.38
APR 22	53847	0.10438	0.36380	0.248784	1.659	1.041	0.13	-0.35
APR 23	53848	0.10505	0.36341	0.247571	1.442	1.391	0.12	-0.29
APR 24	53849	0.10564	0.36287	0.246019	0.920	1.675	0.09	-0.30
APR 25	53850	0.10600	0.36234	0.244265	0.188	1.812	0.04	-0.37
APR 26	53851	0.10623	0.36195	0.242454	-0.597	1.825	0.01	-0.39
APR 27	53852	0.10651	0.36170	0.240672	-1.260	1.718	0.00	-0.32
APR 28	53853	0.10732	0.36153	0.239053	-1.663	1.476	0.01	-0.21
APR 29	53854	0.10854	0.36124	0.237726	-1.743	1.157	0.08	-0.19
APR 30	53855	0.10945	0.36076	0.236718	-1.524	0.872	0.14	-0.22
MAY 1	53856	0.10980	0.36018	0.235946	-1.094	0.722	0.14	-0.25
MAY 2	53857	0.10992	0.35961	0.235234	-0.569	0.716	0.09	-0.27
MAY 3	53858	0.10991	0.35898	0.234480	-0.057	0.792	0.06	-0.33
MAY 4	53859	0.10967	0.35802	0.233627	0.359	0.921	0.08	-0.38
MAY 5	53860	0.10921	0.35690	0.232627	0.627	1.041	0.10	-0.33
MAY 6	53861	0.10878	0.35561	0.231542	0.725	1.202	0.08	-0.17
MAY 7	53862	0.10862	0.35436	0.230229	0.658	1.350	0.03	-0.03
MAY 8	53863	0.10834	0.35352	0.228856	0.453	1.428	0.01	-0.08
MAY 9	53864	0.10803	0.35283	0.227391	0.159	1.492	0.05	-0.31
MAY 10	53865	0.10777	0.35219	0.225895	-0.159	1.514	0.09	-0.55
MAY 11	53866	0.10755	0.35181	0.224387	-0.432	1.489	0.10	-0.61
MAY 12	53867	0.10751	0.35150	0.222939	-0.590	1.371	0.09	-0.48
MAY 13	53868	0.10784	0.35078	0.221659	-0.580	1.229	0.07	-0.31
MAY 14	53869	0.10861	0.34990	0.220483	-0.379	1.048	0.06	-0.23
MAY 15	53870	0.10970	0.34919	0.219548	-0.004	0.858	0.05	-0.26
MAY 16	53871	0.11074	0.34867	0.218737	0.479	0.760	0.06	-0.32
MAY 17	53872	0.11111	0.34800	0.217989	0.969	0.745	0.09	-0.37
MAY 18	53873	0.11118	0.34713	0.217208	1.346	0.834	0.13	-0.38
MAY 19	53874	0.11137	0.34625	0.216290	1.505	1.024	0.14	-0.36
MAY 20	53875	0.11161	0.34552	0.215149	1.381	1.249	0.00	0.00
MAY 21	53876	0.11194	0.34509	0.213804	0.975	1.439	0.00	0.00
MAY 22	53877	0.11231	0.34467	0.212305	0.353	1.565	0.00	0.00
MAY 23	53878	0.11286	0.34413	0.210722	-0.361	1.594	0.00	0.00
MAY 24	53879	0.11357	0.34337	0.209168	-1.013	1.476	0.00	0.00
MAY 25	53880	0.11441	0.34229	0.207810	-1.468	1.232	0.00	0.00

IERS, B 220 (3)

3 - NORMAL VALUES OF THE EARTH ORIENTATION PARAMETERS AT FIVE-DAY INTERVALS  
(IERS evaluation).

		Raw normal values					Uncertainties				
2006	MJD	x	y	UT1-UTC	dX	dY	x	y	UT1	dX	dY
(0 h UTC)		"	"	s	0.001"		0.001"	0.0001s	0.001"		
APR 4	53829	0.10406	0.37273	0.263950	0.065	-.281	0.01	0.01	0.02	0.02	0.02
APR 9	53834	0.10430	0.37086	0.260439	0.090	-.204	0.02	0.02	0.01	0.03	0.03
APR 14	53839	0.10319	0.36751	0.254364	0.139	-.211	0.01	0.02	0.02	0.04	0.05
APR 19	53844	0.10222	0.36526	0.250827	-.072	-.183	0.01	0.02	0.01	0.02	0.02
APR 24	53849	0.10565	0.36287	0.246019	0.092	-.304	0.01	0.01	0.02	0.02	0.03
APR 29	53854	0.10854	0.36124	0.237713	0.054	-.153	0.02	0.02	0.02	0.04	0.06
MAY 4	53859	0.10966	0.35803	0.233622	0.080	-.369	0.02	0.02	0.02	0.03	0.03
MAY 9	53864	0.10803	0.35282	0.227396	0.053	-.310	0.01	0.01	0.02	0.02	0.03
MAY 14	53869	0.10862	0.34991	0.220477	0.058	-.226	0.02	0.02	0.02	0.04	0.04
MAY 19	53874	0.11136	0.34624	0.216289	0.170	-.446	0.01	0.01	0.02	0.03	0.04
MAY 24	53879	0.11358	0.34337	0.209166	-	-	0.02	0.02	0.02	-	-

4 - DURATION OF THE DAY AND ANGULAR VELOCITY OF THE EARTH (IERS evaluation).

The data of this section are smoothed, with the same characteristics as UT1R in section 1. They are corrected for the effects of zonal tides with periods up to 35 days. Section 2 gives the daily interpolation of D.

Date (0h UTC)		DR	OmegaR
2006	MJD	s	(microrad/s)
APR 4	53829	0.00109	72.921 15054
APR 9	53834	0.00106	15057
APR 14	53839	0.00093	15068
APR 19	53844	0.00100	15062
APR 24	53849	0.00103	15060
APR 29	53854	0.00124	15042
MAY 4	53859	0.00127	15039

5 - INFORMATION ON TIME SCALES

A leap second was introduced in UTC on 31 December 2005.  
No leap second will be introduced in UTC on 30 June 2006.  
All information concerning time scales : announcements of the leap seconds (Bulletin C) and of the value of DUT1 (Bulletin D) can be found in our web/ftp site :

World Wide Web : <http://hpiers.obspm.fr>  
Anonymous ftp : [hpiers.obspm.fr](ftp://hpiers.obspm.fr) or 145.238.100.28

IERS, B 220 (4)

6 - SUMMARY OF CONTRIBUTED EARTH ORIENTATION PARAMETERS SERIES

This section gives the average precision of the individual series contributing to the combination and their average agreement with it. The periods covered start at the beginning of the first month in Section 1 and end with the last available value in the individual series considered.

Units : 0.001" for x,y , 0.0001s for UT1, 0.001" for dX, dY.

EOP series		Mean formal uncertainty						
Periods covered		Weighted RMS agreement with Bulletin B						
		x	y	UT	D	dX	dY	Data Number
VLBI								
EOP(AUS)	1 R 1	0.10	0.09	0.04	-	-	-	14
	53829.20 to 53874.27	0.15	0.16	0.09	-	-	-	

EOP(BKG) 3 R 4	0.08	0.08	0.03	-	-	-	13
53829.20 to 53871.21	0.11	0.15	0.06	-	-	-	
EOP(BKG) 3 R 2	-	-	0.11	-	-	-	44
53829.79 to 53879.79	-	-	0.23	-	-	-	
EOP(USNO) 5 R 1	-	-	0.12	-	-	-	46
53829.79 to 53879.79	-	-	0.18	-	-	-	
EOP(GSFC) 4 R 2	0.07	0.07	0.03	-	-	-	14
53829.20 to 53874.27	0.11	0.11	0.18	-	-	-	
EOP(GSFC) 4 R 1	-	-	0.12	-	-	-	44
53829.79 to 53879.79	-	-	0.22	-	-	-	
EOP(IAA) 5 R 2	0.08	0.08	0.04	-	0.06	0.06	13
53829.20 to 53874.27	0.11	0.19	0.07	-	0.03	0.07	
EOP(IAA) 5 R 1	-	-	0.11	-	-	-	44
53829.79 to 53879.79	-	-	0.18	-	-	-	
EOP(SPBU) 3 R 3	0.26	0.31	0.16	-	-	-	13
53829.20 to 53871.21	0.20	0.20	0.11	-	-	-	
EOP(SPBU) 2 R 1	-	-	0.13	-	-	-	41
53829.79 to 53876.33	-	-	0.19	-	-	-	
EOP(MAO) 3 R 1	0.09	0.09	0.04	-	0.06	0.06	13
53829.23 to 53871.21	0.12	0.19	0.08	-	0.07	0.10	
EOP(USNO) 6 R 1	0.08	0.08	0.04	-	-	-	14
53829.20 to 53874.27	0.14	0.15	0.08	-	-	-	
EOP(IVS) 0 R 1	0.04	0.04	0.02	-	-	-	9
53829.00 to 53860.00	0.14	0.29	0.08	-	-	-	
GPS							
EOP(CODE) 98 P 1	0.01	0.01	-	0.07	-	-	51
53829.50 to 53879.50	0.07	0.06	-	0.24	-	-	
EOP(EMR) 96 P 3	0.03	0.03	-	0.04	-	-	51
53829.50 to 53879.50	0.08	0.06	-	0.49	-	-	
EOP(ESOC) 96 P 1	0.01	0.01	-	0.04	-	-	51
53829.50 to 53879.50	0.05	0.09	-	0.28	-	-	
EOP(GFZ) 96 P 2	0.01	0.01	-	0.02	-	-	51
53829.50 to 53879.50	0.05	0.05	-	0.32	-	-	
EOP(IAA) 1 P 1	0.03	0.03	-	0.06	-	-	51
53829.50 to 53879.50	0.14	0.25	-	0.70	-	-	
EOP(JPL) 96 P 3	0.02	0.02	-	0.13	-	-	47
53829.50 to 53875.50	0.05	0.04	-	0.50	-	-	
EOP(NOAA) 96 P 1	0.00	0.00	-	0.02	-	-	26
53829.50 to 53854.50	0.07	0.15	-	0.32	-	-	
EOP(SIO) 96 P 1	0.02	0.02	-	0.00	-	-	51
53829.50 to 53879.50	0.24	0.24	-	0.57	-	-	
EOP(IGS F)95 P 2	0.02	0.02	0.09	0.04	-	-	40
53829.50 to 53868.50	0.03	0.07	0.20	0.17	-	-	
EOP(IGS R)96 P 2	0.04	0.04	0.19	0.06	-	-	51
53829.50 to 53879.50	0.04	0.04	0.72	0.18	-	-	
EOP(IERS) 97 P 1	0.03	0.03	0.19	0.13	-	-	51
53829.50 to 53879.50	0.02	0.03	0.20	0.19	-	-	
SLR							
EOP(ASI) 3 L 2	0.07	0.07	-	0.16	-	-	51
53829.50 to 53879.50	0.19	0.24	-	0.49	-	-	
EOP(DUT) 98 L 1	0.09	0.08	-	-	-	-	45
53829.00 to 53880.00	0.46	0.34	-	-	-	-	
EOP(IAA) 2 L 1	0.03	0.04	0.02	0.02	-	-	52
53829.00 to 53880.00	0.18	0.25	0.22	0.13	-	-	
EOP(MCC) 97 L 1	0.15	0.16	-	0.10	-	-	52

53829.00 to 53880.00	0.18	0.16	-	0.19	-	-	
EOP(ILRS) 5 L 1	0.06	0.06	-	0.14	-	-	47
53829.50 to 53875.50	0.14	0.13	-	0.50	-	-	
Bulletin A							
EOP(NEOS) 97 C 1	0.04	0.05	0.09	-	-	-	52
53829.00 to 53880.00	0.07	0.10	0.16	-	-	-	