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 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:

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

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.

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 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	MJD	x	y	UT1R-UTC	UT1R-TAI	dX	dY
2005/06		"	"	s	s	0.001"	0.001"
(0h UTC)							

Final Bulletin B values.

DEC 5	53709	0.06645	0.39063	-0.648796	-32.648796	0.42	-0.24
DEC 10	53714	0.06538	0.38970	-0.650520	-32.650520	0.17	-0.13
DEC 15	53719	0.06416	0.38751	-0.652800	-32.652800	0.27	-0.18
DEC 20	53724	0.06387	0.38904	-0.655712	-32.655712	0.45	-0.42
DEC 25	53729	0.06066	0.38697	-0.658743	-32.658743	0.24	-0.48
DEC 30	53734	0.05491	0.38468	-0.661412	-32.661412	0.24	-0.33
JAN 4	53739	0.05018	0.38244	0.336786	-32.663214	0.28	-0.34

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

JAN 9	53744	0.04951	0.38132	0.335329	-32.664671	0.14	-0.13
JAN 14	53749	0.04867	0.38004	0.333783	-32.666217	0.16	-0.31
JAN 19	53754	0.05071	0.38071	0.332304	-32.667696	0.00	0.00
JAN 24	53759	0.05025	0.38016	0.330224	-32.669776	0.00	0.00
JAN 29	53764	0.05110	0.38146	0.326243	-32.673757	0.00	0.00
FEB 3	53769	0.05030	0.38124	0.322140	-32.677860	0.00	0.00
FEB 8	53774	0.04790	0.37962	0.318150	-32.681850	0.00	0.00
FEB 13	53779	0.04483	0.37748	0.314243	-32.685757	0.00	0.00
FEB 18	53784	0.04141	0.37519	0.310276	-32.689724	0.00	0.00
FEB 23	53789	0.03782	0.37288	0.306179	-32.693821	0.00	0.00
FEB 28	53794	0.03415	0.37068	0.301914	-32.698086	0.00	0.00
MAR 5	53799	0.03048	0.36860	0.297459	-32.702541	0.00	0.00
MAR 10	53804	0.02685	0.36666	0.292835	-32.707165	0.00	0.00
MAR 15	53809	0.02330	0.36488	0.288090	-32.711910	0.00	0.00
MAR 20	53814	0.01986	0.36327	0.283222	-32.716778	0.00	0.00
MAR 25	53819	0.01656	0.36181	0.278294	-32.721706	0.00	0.00

MAR 30 53824 0.01341 0.36052 0.273334 -32.726666 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.

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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.

2005/06	MJD	x	y	UT1-UTC	UT1-UT1R	D	dX	dY
(0 h UTC)	"	"	"	s	ms	ms	0.001"	0.001"
DEC 5	53709	0.06645	0.39063	-0.647748	1.047	0.189	0.42	-0.24
DEC 6	53710	0.06619	0.39079	-0.648017	1.143	0.401	0.38	-0.25
DEC 7	53711	0.06619	0.39080	-0.648554	0.961	0.664	0.31	-0.24
DEC 8	53712	0.06622	0.39062	-0.649325	0.524	0.876	0.25	-0.19
DEC 9	53713	0.06603	0.39025	-0.650267	-0.077	0.978	0.20	-0.17
DEC 10	53714	0.06538	0.38970	-0.651236	-0.716	0.946	0.17	-0.13
DEC 11	53715	0.06435	0.38891	-0.652118	-1.261	0.832	0.18	-0.11
DEC 12	53716	0.06347	0.38812	-0.652872	-1.608	0.674	0.22	-0.12
DEC 13	53717	0.06313	0.38764	-0.653456	-1.700	0.467	0.25	-0.16
DEC 14	53718	0.06343	0.38741	-0.653815	-1.534	0.238	0.26	-0.19
DEC 15	53719	0.06416	0.38751	-0.653955	-1.155	0.081	0.27	-0.18
DEC 16	53720	0.06476	0.38798	-0.654006	-0.643	0.026	0.33	-0.16
DEC 17	53721	0.06504	0.38864	-0.654037	-0.091	0.044	0.42	-0.19
DEC 18	53722	0.06515	0.38905	-0.654119	0.414	0.129	0.50	-0.31
DEC 19	53723	0.06486	0.38918	-0.654313	0.804	0.274	0.51	-0.42
DEC 20	53724	0.06387	0.38904	-0.654678	1.034	0.450	0.45	-0.42
DEC 21	53725	0.06286	0.38836	-0.655214	1.089	0.653	0.38	-0.32
DEC 22	53726	0.06238	0.38770	-0.655977	0.981	0.811	0.32	-0.24
DEC 23	53727	0.06185	0.38737	-0.656822	0.741	0.887	0.27	-0.28
DEC 24	53728	0.06126	0.38709	-0.657732	0.422	0.928	0.23	-0.41
DEC 25	53729	0.06066	0.38697	-0.658656	0.087	0.911	0.24	-0.48
DEC 26	53730	0.05955	0.38703	-0.659530	-0.194	0.822	0.28	-0.43
DEC 27	53731	0.05824	0.38691	-0.660278	-0.353	0.651	0.26	-0.37
DEC 28	53732	0.05710	0.38635	-0.660818	-0.332	0.410	0.21	-0.37
DEC 29	53733	0.05598	0.38553	-0.661099	-0.114	0.154	0.19	-0.40
DEC 30	53734	0.05491	0.38468	-0.661149	0.264	-0.009	0.24	-0.33
DEC 31	53735	0.05380	0.38391	-0.661124	0.701	-0.013	0.30	-0.17
JAN 1	53736	0.05271	0.38335	0.338829	1.059	0.124	0.30	-0.13
JAN 2	53737	0.05179	0.38302	0.338590	1.202	0.354	0.27	-0.26
JAN 3	53738	0.05097	0.38276	0.338108	1.050	0.606	0.27	-0.38
JAN 4	53739	0.05018	0.38244	0.337397	0.611	0.814	0.28	-0.34
JAN 5	53740	0.04961	0.38208	0.336521	-0.026	0.936	0.25	-0.20
JAN 6	53741	0.04950	0.38178	0.335577	-0.719	0.944	0.17	-0.09
JAN 7	53742	0.04957	0.38166	0.334678	-1.320	0.827	0.11	-0.05
JAN 8	53743	0.04951	0.38160	0.333951	-1.716	0.605	0.10	-0.07
JAN 9	53744	0.04951	0.38132	0.333479	-1.850	0.334	0.14	-0.13
JAN 10	53745	0.04958	0.38115	0.333276	-1.717	0.074	0.20	-0.23
JAN 11	53746	0.04927	0.38104	0.333310	-1.364	-0.129	0.20	-0.37
JAN 12	53747	0.04876	0.38070	0.333505	-0.863	-0.244	0.16	-0.42
JAN 13	53748	0.04854	0.38039	0.333769	-0.303	-0.267	0.13	-0.36
JAN 14	53749	0.04867	0.38004	0.334012	0.229	-0.180	0.16	-0.31
JAN 15	53750	0.04922	0.37978	0.334108	0.660	-0.047	0.23	-0.39
JAN 16	53751	0.04997	0.37970	0.334094	0.939	0.074	0.29	-0.54
JAN 17	53752	0.05043	0.37998	0.333958	1.045	0.237	0.31	-0.63
JAN 18	53753	0.05062	0.38038	0.333627	0.983	0.441	0.00	0.00
JAN 19	53754	0.05071	0.38071	0.333089	0.785	0.555	0.00	0.00
JAN 20	53755	0.05049	0.38097	0.332537	0.501	0.619	0.00	0.00
JAN 21	53756	0.05024	0.38118	0.331874	0.193	0.682	0.00	0.00
JAN 22	53757	0.05020	0.38131	0.331194	-0.073	0.673	0.00	0.00
JAN 23	53758	0.05024	0.38075	0.330548	-0.235	0.613	0.00	0.00
JAN 24	53759	0.05025	0.38016	0.329984	-0.241	0.525	0.00	0.00
JAN 25	53760	0.05014	0.38034	0.329502	-0.061	0.411	0.00	0.00
JAN 26	53761	0.05010	0.38064	0.329088	0.290	0.342	0.00	0.00

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

		Raw normal values					Uncertainties				
2005/06	MJD	x	y	UT1-UTC	dX	dY	x	y	UT1	dX	dY
(0 h UTC)		"	"	s	0.001"		0.001"	0.0001s	0.001"		
DEC 5	53709	0.06646	0.39063	-0.647746	0.362	-.172	0.02	0.02	0.01	0.02	0.03
DEC 10	53714	0.06537	0.38969	-0.651236	0.192	-.252	0.01	0.01	0.01	0.03	0.03
DEC 15	53719	0.06417	0.38750	-0.653956	0.293	-.181	0.01	0.01	0.01	0.02	0.02
DEC 20	53724	0.06387	0.38904	-0.654676	0.403	-.430	0.02	0.02	0.02	0.04	0.04
DEC 25	53729	0.06067	0.38698	-0.658660	0.232	-.485	0.02	0.02	0.03	0.06	0.06
DEC 30	53734	0.05491	0.38469	-0.661147	0.224	-.351	0.02	0.02	0.02	0.03	0.03
JAN 4	53739	0.05018	0.38245	0.337400	0.305	-.385	0.01	0.01	0.02	0.02	0.02
JAN 9	53744	0.04952	0.38133	0.333485	0.138	-.128	0.01	0.01	0.02	0.04	0.04
JAN 14	53749	0.04867	0.38004	0.334012	0.159	-.316	0.01	0.02	0.01	0.03	0.03
JAN 19	53754	0.05071	0.38069	0.333095	-	-	0.02	0.02	0.04	-	-
JAN 24	53759	0.05026	0.38016	0.329988	-	-	0.02	0.02	0.04	-	-

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)	MJD	DR	OmegaR
2005/06		s	(microrad/s)
DEC 5	53709	0.00042	72.921 15111
DEC 10	53714	0.00034	15118
DEC 15	53719	0.00055	15101
DEC 20	53724	0.00060	15096
DEC 25	53729	0.00060	15096
DEC 30	53734	0.00043	15111
JAN 4	53739	0.00026	15125

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](http://hpiers.obspm.fr) or 145.238.100.28

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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						
	Weighted RMS agreement with Bulletin B						
Periods covered	x	y	UT	D	dX	dY	Data Number
VLBI							

EOP(AUS)	1	R	1	0.10	0.10	0.05	-	-	-	11
53710.20 to 53748.29				0.27	0.11	0.08	-	-	-	
EOP(BKG)	3	R	4	0.12	0.10	0.04	-	-	-	13
53710.20 to 53748.29				0.22	0.19	0.18	-	-	-	
EOP(BKG)	3	R	2	-	-	0.11	-	-	-	38
53709.79 to 53760.79				-	-	0.07	-	-	-	
EOP(USNO)	5	R	1	-	-	0.15	-	-	-	40
53709.79 to 53760.79				-	-	0.09	-	-	-	
EOP(GSFC)	4	R	2	0.15	0.10	0.11	-	-	-	16
53710.20 to 53752.17				0.11	0.13	0.13	-	-	-	
EOP(GSFC)	4	R	1	-	-	0.12	-	-	-	38
53709.79 to 53760.79				-	-	0.14	-	-	-	
EOP(IAA)	5	R	2	0.09	0.08	0.04	-	0.15	0.06	13
53710.20 to 53748.29				0.16	0.12	0.11	-	0.21	0.06	
EOP(IAA)	5	R	1	-	-	0.12	-	-	-	38
53709.79 to 53760.79				-	-	0.09	-	-	-	
EOP(SPBU)	3	R	3	0.26	0.32	0.18	-	-	-	6
53710.20 to 53740.27				0.18	0.14	0.06	-	-	-	
EOP(SPBU)	2	R	1	-	-	0.13	-	-	-	31
53709.79 to 53753.79				-	-	0.16	-	-	-	
EOP(MAO)	3	R	1	0.11	0.09	0.05	-	0.17	0.06	10
53710.21 to 53740.29				0.18	0.23	0.12	-	0.22	0.12	
EOP(USNO)	5	R	2	0.10	0.10	0.04	-	-	-	12
53710.20 to 53748.29				0.13	0.12	0.13	-	-	-	
EOP(IVS)	0	R	1	0.05	0.04	0.02	-	-	-	11
53710.00 to 53748.00				0.12	0.28	0.06	-	-	-	
GPS										
EOP(CODE)	98	P	1	0.01	0.01	-	0.06	-	-	52
53709.50 to 53760.50				0.05	0.05	-	0.19	-	-	
EOP(EMR)	96	P	3	0.03	0.03	-	0.04	-	-	52
53709.50 to 53760.50				0.10	0.07	-	0.45	-	-	
EOP(ESOC)	96	P	1	0.01	0.02	-	0.04	-	-	52
53709.50 to 53760.50				0.07	0.07	-	0.57	-	-	
EOP(GFZ)	96	P	2	0.01	0.01	-	0.02	-	-	52
53709.50 to 53760.50				0.06	0.04	-	0.19	-	-	
EOP(IAA)	1	P	1	0.03	0.03	-	0.06	-	-	52
53709.50 to 53760.50				0.15	0.26	-	0.30	-	-	
EOP(JPL)	96	P	3	0.02	0.02	-	0.11	-	-	41
53709.50 to 53749.50				0.05	0.07	-	0.30	-	-	
EOP(NOAA)	96	P	1	0.00	0.00	-	0.02	-	-	51
53709.50 to 53759.50				0.09	0.13	-	0.33	-	-	
EOP(SIO)	96	P	1	0.06	0.06	-	0.15	-	-	52
53709.50 to 53760.50				0.06	0.08	-	0.30	-	-	
EOP(IGS F)	95	P	2	0.02	0.02	0.07	0.06	-	-	41
53709.50 to 53749.50				0.03	0.09	0.20	0.15	-	-	
EOP(IGS R)	96	P	2	0.04	0.04	0.15	0.06	-	-	52
53709.50 to 53760.50				0.06	0.07	0.51	0.17	-	-	
EOP(IERS)	97	P	1	0.03	0.03	0.18	0.13	-	-	52
53709.50 to 53760.50				0.02	0.03	0.80	0.18	-	-	
SLR										
EOP(ASI)	3	L	2	0.08	0.09	-	0.21	-	-	51
53709.50 to 53759.50				0.21	0.22	-	0.47	-	-	
EOP(DUT)	98	L	1	0.10	0.09	-	-	-	-	14
53715.00 to 53728.00				0.57	0.30	-	-	-	-	
EOP(IAA)	2	L	1	0.04	0.04	0.03	0.03	-	-	53
53709.00 to 53761.00				0.18	0.14	0.34	0.16	-	-	

EOP(MCC) 97 L 1	0.10	0.11	-	0.10	-	-	46
53709.00 to 53754.00	0.17	0.25	-	0.30	-	-	
EOP(ILRS) 5 L 1	1.63	1.45	-	4.11	-	-	48
53709.50 to 53756.50	0.16	0.16	-	0.49	-	-	
Bulletin A							
EOP(NEOS) 97 C 1	0.05	0.07	0.07	-	-	-	53
53709.00 to 53761.00	0.06	0.13	0.17	-	-	-	