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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:

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

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.

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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 2006 (0h UTC)	MJD	x "	y "	UT1R-UTC s	UT1R-TAI s	dX 0.001"	dY 0.001"
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Final Bulletin B values.

AUG	2	53949	0.11139	0.27035	0.181219	-32.818781	-0.06	-0.41
AUG	7	53954	0.10844	0.26496	0.179694	-32.820306	-0.11	-0.35
AUG	12	53959	0.10602	0.26058	0.178440	-32.821560	0.00	-0.10
AUG	17	53964	0.10074	0.25781	0.176714	-32.823286	-0.04	-0.10
AUG	22	53969	0.09409	0.25497	0.174751	-32.825249	-0.05	-0.27
AUG	27	53974	0.08857	0.25392	0.172551	-32.827449	0.01	-0.08
SEP	1	53979	0.08252	0.25393	0.170025	-32.829975	0.13	-0.13

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

SEP	6	53984	0.07684	0.25424	0.167231	-32.832769	0.06	-0.23
SEP	11	53989	0.07086	0.25388	0.163803	-32.836197	-0.19	0.46
SEP	16	53994	0.06338	0.25187	0.159591	-32.840409	0.00	0.00
SEP	21	53999	0.05425	0.25289	0.155508	-32.844492	0.00	0.00
SEP	26	54004	0.04327	0.25204	0.150924	-32.849076	0.00	0.00
OCT	1	54009	0.03276	0.25240	0.145394	-32.854606	0.00	0.00
OCT	6	54014	0.02398	0.25378	0.139736	-32.860264	0.00	0.00
OCT	11	54019	0.01739	0.25623	0.134609	-32.865391	0.00	0.00
OCT	16	54024	0.01199	0.25942	0.129734	-32.870266	0.00	0.00
OCT	21	54029	0.00741	0.26319	0.125080	-32.874920	0.00	0.00
OCT	26	54034	0.00345	0.26747	0.120609	-32.879391	0.00	0.00
OCT	31	54039	0.00000	0.27221	0.116337	-32.883663	0.00	0.00
NOV	5	54044	-0.00297	0.27736	0.112240	-32.887760	0.00	0.00
NOV	10	54049	-0.00550	0.28288	0.108326	-32.891674	0.00	0.00
NOV	15	54054	-0.00757	0.28875	0.104588	-32.895412	0.00	0.00
NOV	20	54059	-0.00918	0.29494	0.101017	-32.898983	0.00	0.00

NOV 25	54064	-0.01030	0.30142	0.097629	-32.902371	0.00	0.00
NOV 30	54069	-0.01093	0.30815	0.094410	-32.905590	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 2005 IERS Annual Report.

2006	MJD	x	y	UT1-UTC	UT1-UT1R	D	dX	dY
(0 h UTC)		"	"	s	ms	ms	0.001"	0.001"
AUG 2	53949	0.11139	0.27035	0.180816	-0.403	0.311	-0.06	-0.41
AUG 3	53950	0.11034	0.26969	0.180590	-0.353	0.160	-0.03	-0.41
AUG 4	53951	0.10943	0.26872	0.180496	-0.131	0.000	0.00	-0.33
AUG 5	53952	0.10888	0.26754	0.180578	0.248	-0.124	-0.03	-0.30
AUG 6	53953	0.10861	0.26624	0.180717	0.728	-0.181	-0.09	-0.35
AUG 7	53954	0.10844	0.26496	0.180899	1.205	-0.157	-0.11	-0.35
AUG 8	53955	0.10851	0.26390	0.180985	1.545	0.010	-0.09	-0.29
AUG 9	53956	0.10848	0.26320	0.180843	1.623	0.320	-0.10	-0.29
AUG 10	53957	0.10792	0.26249	0.180335	1.363	0.687	-0.11	-0.38
AUG 11	53958	0.10697	0.26152	0.179492	0.787	0.970	-0.07	-0.37
AUG 12	53959	0.10602	0.26058	0.178447	0.007	1.115	0.00	-0.10
AUG 13	53960	0.10522	0.25979	0.177324	-0.801	1.071	0.04	0.27
AUG 14	53961	0.10447	0.25915	0.176360	-1.459	0.850	0.02	0.45
AUG 15	53962	0.10351	0.25870	0.175654	-1.840	0.571	-0.01	0.35
AUG 16	53963	0.10217	0.25837	0.175219	-1.899	0.292	-0.03	0.12
AUG 17	53964	0.10074	0.25781	0.175048	-1.666	0.045	-0.04	-0.10
AUG 18	53965	0.09950	0.25710	0.175094	-1.226	-0.124	-0.03	-0.30
AUG 19	53966	0.09819	0.25632	0.175259	-0.687	-0.191	-0.01	-0.46
AUG 20	53967	0.09667	0.25562	0.175444	-0.152	-0.122	0.01	-0.51
AUG 21	53968	0.09517	0.25521	0.175478	0.292	0.045	-0.02	-0.41
AUG 22	53969	0.09409	0.25497	0.175340	0.589	0.218	-0.05	-0.27
AUG 23	53970	0.09299	0.25466	0.175040	0.711	0.411	-0.09	-0.21
AUG 24	53971	0.09167	0.25415	0.174525	0.663	0.587	-0.09	-0.26
AUG 25	53972	0.09060	0.25376	0.173880	0.479	0.687	-0.07	-0.30
AUG 26	53973	0.08972	0.25376	0.173171	0.212	0.712	-0.03	-0.21
AUG 27	53974	0.08857	0.25392	0.172480	-0.071	0.724	0.01	-0.08
AUG 28	53975	0.08717	0.25395	0.171745	-0.303	0.689	-0.01	-0.05
AUG 29	53976	0.08586	0.25387	0.171119	-0.425	0.557	-0.05	-0.17
AUG 30	53977	0.08461	0.25387	0.170642	-0.397	0.393	-0.05	-0.26
AUG 31	53978	0.08349	0.25388	0.170335	-0.198	0.224	0.03	-0.22
SEP 1	53979	0.08252	0.25393	0.170186	0.161	0.081	0.13	-0.13
SEP 2	53980	0.08132	0.25402	0.170153	0.639	-0.003	0.18	-0.18
SEP 3	53981	0.07983	0.25408	0.170158	1.154	0.041	0.16	-0.34
SEP 4	53982	0.07836	0.25412	0.170026	1.588	0.234	0.13	-0.44
SEP 5	53983	0.07736	0.25413	0.169646	1.809	0.529	0.10	-0.36
SEP 6	53984	0.07684	0.25424	0.168942	1.711	0.887	0.06	-0.23
SEP 7	53985	0.07622	0.25454	0.167876	1.258	1.256	0.01	-0.13
SEP 8	53986	0.07515	0.25475	0.166470	0.517	1.514	0.00	0.04
SEP 9	53987	0.07387	0.25462	0.164913	-0.356	1.572	-0.02	0.34
SEP 10	53988	0.07247	0.25429	0.163392	-1.163	1.443	-0.11	0.59
SEP 11	53989	0.07086	0.25388	0.162076	-1.728	1.170	-0.19	0.46
SEP 12	53990	0.06914	0.25353	0.161069	-1.954	0.846	-0.14	0.00
SEP 13	53991	0.06741	0.25304	0.160369	-1.840	0.601	0.00	-0.34
SEP 14	53992	0.06591	0.25238	0.159831	-1.466	0.421	0.10	-0.36
SEP 15	53993	0.06466	0.25193	0.159486	-0.947	0.304	0.08	-0.19
SEP 16	53994	0.06338	0.25187	0.159186	-0.404	0.297	0.00	0.00
SEP 17	53995	0.06189	0.25193	0.158865	0.067	0.376	0.00	0.00
SEP 18	53996	0.06028	0.25203	0.158418	0.401	0.564	0.00	0.00
SEP 19	53997	0.05854	0.25240	0.157731	0.567	0.798	0.00	0.00
SEP 20	53998	0.05650	0.25272	0.156827	0.562	0.913	0.00	0.00
SEP 21	53999	0.05425	0.25289	0.155918	0.410	1.029	0.00	0.00
SEP 22	54000	0.05175	0.25299	0.154787	0.159	1.189	0.00	0.00
SEP 23	54001	0.04926	0.25284	0.153563	-0.125	1.133	0.00	0.00
SEP 24	54002	0.04715	0.25262	0.152405	-0.375	1.114	0.00	0.00

SEP 25	54003	0.04508	0.25239	0.151353	-0.524	1.010	0.00	0.00
SEP 26	54004	0.04327	0.25204	0.150397	-0.527	0.913	0.00	0.00
SEP 27	54005	0.04170	0.25183	0.149531	-0.357	0.724	0.00	0.00
SEP 28	54006	0.03981	0.25189	0.148814	-0.019	0.655	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				
2006	MJD	x	y	UT1-UTC	dX	dY	x	y	UT1	dX	dY
(0 h UTC)		"	"	s	0.001"	0.001"	0.001"	0.0001s	0.001"	0.001"	0.001"
AUG 2	53949	0.11138	0.27035	0.180817	-.073	-.422	0.02	0.02	0.02	0.03	0.03
AUG 7	53954	0.10846	0.26495	0.180900	-.088	-.306	0.01	0.01	0.02	0.02	0.02
AUG 12	53959	0.10602	0.26059	0.178446	-.008	-.110	0.01	0.01	0.02	0.03	0.03
AUG 17	53964	0.10074	0.25781	0.175048	-.031	-.094	0.01	0.01	0.02	0.02	0.02
AUG 22	53969	0.09409	0.25497	0.175339	-.045	-.280	0.01	0.01	0.02	0.02	0.02
AUG 27	53974	0.08857	0.25391	0.172479	0.008	-.078	0.02	0.02	0.02	0.02	0.02
SEP 1	53979	0.08252	0.25393	0.170184	0.052	-.137	0.01	0.01	0.02	0.03	0.04
SEP 6	53984	0.07686	0.25424	0.168947	0.072	-.235	0.02	0.02	0.02	0.02	0.02
SEP 11	53989	0.07086	0.25389	0.162078	-.211	0.389	0.02	0.02	0.02	0.03	0.03
SEP 16	53994	0.06337	0.25186	0.159183	-	-	0.01	0.01	0.02	-	-
SEP 21	53999	0.05425	0.25289	0.155924	-	-	0.01	0.01	0.03	-	-
SEP 26	54004	0.04329	0.25204	0.150404	-	-	0.02	0.01	0.05	-	-

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)		
AUG 2	53949	0.00028	72.921	15123
AUG 7	53954	0.00028		15123
AUG 12	53959	0.00030		15122
AUG 17	53964	0.00040		15113
AUG 22	53969	0.00043		15110
AUG 27	53974	0.00046		15108
SEP 1	53979	0.00051		15103

5 - INFORMATION ON TIME SCALES

No leap second will be introduced in UTC on 31 December 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 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					Data Number	
Periods covered			Weighted RMS agreement with Bulletin B						
			x	y	UT	D	dX	dY	
VLBI									
EOP(AUS)	1	R 1	0.07	0.07	0.03	-	-	-	13
53951.27 to 53993.27			0.12	0.12	0.08	-	-	-	
EOP(BKG)	3	R 4	0.07	0.07	0.03	-	-	-	13
53951.27 to 53993.27			0.09	0.10	0.09	-	-	-	
EOP(BKG)	3	R 2	-	-	0.15	-	-	-	47
53949.79 to 54000.80			-	-	0.19	-	-	-	
EOP(USNO)	5	R 1	-	-	0.17	-	-	-	52
53949.79 to 54005.79			-	-	0.13	-	-	-	
EOP(GSFC)	4	R 1	-	-	0.15	-	-	-	48
53949.79 to 54003.79			-	-	0.20	-	-	-	
EOP(IAA)	5	R 2	0.06	0.07	0.03	-	0.04	0.05	13
53951.27 to 53993.27			0.09	0.13	0.08	-	0.06	0.04	
EOP(IAA)	5	R 1	-	-	0.15	-	-	-	48
53949.79 to 54003.79			-	-	0.12	-	-	-	
EOP(SPBU)	3	R 3	0.27	0.36	0.18	-	-	-	11
53951.27 to 53993.27			0.16	0.11	0.09	-	-	-	
EOP(SPBU)	2	R 1	-	-	0.15	-	-	-	48
53949.79 to 54003.79			-	-	0.18	-	-	-	
EOP(MAO)	3	R 1	0.08	0.09	0.04	-	0.06	0.06	12
53951.29 to 53993.21			0.11	0.09	0.08	-	0.08	0.05	
EOP(USNO)	6	R 2	0.07	0.07	0.03	-	-	-	13
53951.27 to 53993.27			0.12	0.14	0.06	-	-	-	
EOP(IVS)	0	R 1	0.04	0.04	0.02	-	-	-	10
53951.00 to 53986.00			0.13	0.09	0.07	-	-	-	
GPS									
EOP(CODE)	98	P 1	0.01	0.01	-	0.08	-	-	57
53949.50 to 54005.50			0.06	0.03	-	0.20	-	-	
EOP(EMR)	96	P 3	0.03	0.03	-	0.04	-	-	57
53949.50 to 54005.50			0.08	0.06	-	0.36	-	-	
EOP(ESOC)	96	P 1	0.01	0.01	-	0.04	-	-	57
53949.50 to 54005.50			0.05	0.05	-	0.38	-	-	
EOP(GFZ)	96	P 2	0.01	0.01	-	0.02	-	-	57
53949.50 to 54005.50			0.06	0.07	-	0.25	-	-	
EOP(IAA)	1	P 1	0.03	0.03	-	0.06	-	-	57
53949.50 to 54005.50			0.23	0.13	-	0.48	-	-	
EOP(JPL)	96	P 3	0.02	0.02	-	0.13	-	-	46
53949.50 to 53994.50			0.03	0.05	-	0.30	-	-	
EOP(NOAA)	96	P 1	0.01	0.01	-	0.02	-	-	49
53949.50 to 53997.50			0.13	0.13	-	0.20	-	-	
EOP(SIO)	96	P 1	0.04	0.05	-	0.08	-	-	57
53949.50 to 54005.50			0.14	0.28	-	0.15	-	-	
EOP(IGS F)	95	P 2	0.02	0.02	0.09	0.06	-	-	46
53949.50 to 53994.50			0.03	0.08	0.16	0.15	-	-	
EOP(IGS R)	96	P 2	0.04	0.05	0.21	0.07	-	-	57
53949.50 to 54005.50			0.06	0.04	0.53	0.20	-	-	
EOP(IERS)	97	P 1	0.03	0.03	0.17	0.12	-	-	57
53949.50 to 54005.50			0.02	0.02	0.45	0.16	-	-	
SLR									
EOP(ASI)	3	L 2	0.06	0.06	-	0.13	-	-	56
53949.50 to 54004.50			0.18	0.17	-	0.59	-	-	
EOP(IAA)	2	L 1	0.03	0.03	0.02	0.02	-	-	58
53949.00 to 54006.00			0.13	0.21	0.23	0.15	-	-	

EOP(MCC) 97 L 1	0.14	0.17	-	0.10	-	-	51
53949.00 to 53999.00	0.19	0.32	-	2.75	-	-	
EOP(ILRS) 5 L 1	0.04	0.05	-	0.09	-	-	53
53949.50 to 54001.50	0.13	0.14	-	0.46	-	-	
Bulletin A							
EOP(NEOS) 97 C 1	0.04	0.05	0.09	-	-	-	58
53949.00 to 54006.00	0.04	0.13	0.17	-	-	-	