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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.

SEP	1	53979	0.08252	0.25393	0.170025	-32.829975	0.13	-0.13
SEP	6	53984	0.07685	0.25424	0.167243	-32.832757	0.04	-0.21
SEP	11	53989	0.07086	0.25388	0.163810	-32.836190	-0.07	0.30
SEP	16	53994	0.06337	0.25185	0.159587	-32.840413	0.00	-0.11
SEP	21	53999	0.05427	0.25288	0.155491	-32.844509	0.09	0.04
SEP	26	54004	0.04333	0.25204	0.150914	-32.849086	0.19	-0.02
OCT	1	54009	0.03268	0.25236	0.145367	-32.854633	0.14	-0.11

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

OCT	6	54014	0.02528	0.25398	0.139201	-32.860799	0.06	-0.09
OCT	11	54019	0.01829	0.25759	0.131932	-32.868068	0.14	-0.32
OCT	16	54024	0.00849	0.25857	0.125244	-32.874756	0.03	-0.18
OCT	21	54029	0.00351	0.26277	0.119267	-32.880733	0.00	0.00
OCT	26	54034	-0.00184	0.26770	0.112663	-32.887337	0.00	0.00
OCT	31	54039	-0.00383	0.27140	0.106507	-32.893493	0.00	0.00
NOV	5	54044	-0.00624	0.27690	0.100689	-32.899311	0.00	0.00
NOV	10	54049	-0.01039	0.28197	0.095165	-32.904835	0.00	0.00
NOV	15	54054	-0.01496	0.28750	0.090099	-32.909901	0.00	0.00
NOV	20	54059	-0.01960	0.29348	0.085445	-32.914555	0.00	0.00
NOV	25	54064	-0.02413	0.29986	0.081188	-32.918812	0.00	0.00
NOV	30	54069	-0.02841	0.30657	0.077274	-32.922726	0.00	0.00
DEC	5	54074	-0.03237	0.31358	0.073681	-32.926319	0.00	0.00
DEC	10	54079	-0.03593	0.32084	0.070370	-32.929630	0.00	0.00
DEC	15	54084	-0.03906	0.32830	0.067303	-32.932697	0.00	0.00
DEC	20	54089	-0.04169	0.33593	0.064434	-32.935566	0.00	0.00

DEC	25	54094	-0.04380	0.34367	0.061749	-32.938251	0.00	0.00
DEC	30	54099	-0.04536	0.35149	0.059170	-32.940830	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"
SEP	1	53979	0.08252	0.25393	0.170186	0.161	0.081	0.13	-0.13
SEP	2	53980	0.08132	0.25402	0.170150	0.639	-0.002	0.15	-0.13
SEP	3	53981	0.07984	0.25408	0.170156	1.154	0.039	0.10	-0.26
SEP	4	53982	0.07836	0.25411	0.170029	1.588	0.229	0.05	-0.33
SEP	5	53983	0.07736	0.25412	0.169654	1.809	0.524	0.04	-0.27
SEP	6	53984	0.07685	0.25424	0.168954	1.711	0.893	0.04	-0.21
SEP	7	53985	0.07623	0.25454	0.167872	1.258	1.263	0.08	-0.24
SEP	8	53986	0.07515	0.25475	0.166468	0.517	1.519	0.15	-0.19
SEP	9	53987	0.07387	0.25462	0.164897	-0.356	1.582	0.16	0.06
SEP	10	53988	0.07247	0.25428	0.163369	-1.163	1.432	0.06	0.33
SEP	11	53989	0.07086	0.25388	0.162082	-1.728	1.152	-0.07	0.30
SEP	12	53990	0.06914	0.25353	0.161081	-1.954	0.853	-0.09	-0.02
SEP	13	53991	0.06741	0.25302	0.160360	-1.840	0.608	-0.01	-0.25
SEP	14	53992	0.06591	0.25236	0.159829	-1.466	0.421	0.05	-0.25
SEP	15	53993	0.06465	0.25192	0.159478	-0.947	0.305	0.03	-0.14
SEP	16	53994	0.06337	0.25185	0.159183	-0.404	0.298	0.00	-0.11
SEP	17	53995	0.06190	0.25192	0.158854	0.067	0.383	0.01	-0.17
SEP	18	53996	0.06030	0.25205	0.158401	0.401	0.558	0.03	-0.16
SEP	19	53997	0.05858	0.25242	0.157733	0.567	0.786	0.04	-0.05
SEP	20	53998	0.05652	0.25270	0.156834	0.562	0.922	0.06	0.06
SEP	21	53999	0.05427	0.25288	0.155901	0.410	1.039	0.09	0.04
SEP	22	54000	0.05177	0.25297	0.154774	0.159	1.187	0.14	-0.05
SEP	23	54001	0.04930	0.25282	0.153550	-0.125	1.212	0.18	-0.08
SEP	24	54002	0.04716	0.25262	0.152374	-0.375	1.125	0.22	-0.01
SEP	25	54003	0.04511	0.25238	0.151320	-0.524	1.000	0.23	0.04
SEP	26	54004	0.04333	0.25204	0.150387	-0.527	0.889	0.19	-0.02
SEP	27	54005	0.04174	0.25181	0.149546	-0.357	0.778	0.14	-0.10
SEP	28	54006	0.03984	0.25190	0.148826	-0.019	0.658	0.11	-0.10
SEP	29	54007	0.03752	0.25200	0.148214	0.451	0.593	0.13	-0.03
SEP	30	54008	0.03509	0.25209	0.147611	0.986	0.662	0.15	-0.03
OCT	1	54009	0.03268	0.25236	0.146853	1.486	0.789	0.14	-0.11
OCT	2	54010	0.03041	0.25257	0.145991	1.831	0.971	0.10	-0.17
OCT	3	54011	0.02844	0.25270	0.144878	1.907	1.290	0.04	-0.12
OCT	4	54012	0.02704	0.25308	0.143399	1.643	1.667	-0.02	-0.06
OCT	5	54013	0.02615	0.25362	0.141562	1.050	1.958	-0.02	-0.10
OCT	6	54014	0.02528	0.25398	0.139433	0.232	2.217	0.06	-0.09
OCT	7	54015	0.02438	0.25437	0.137195	-0.634	2.242	0.13	0.11
OCT	8	54016	0.02355	0.25498	0.135012	-1.351	2.053	0.09	0.38
OCT	9	54017	0.02231	0.25590	0.133125	-1.769	1.715	0.01	0.36
OCT	10	54018	0.02047	0.25688	0.131583	-1.833	1.374	0.03	0.00
OCT	11	54019	0.01829	0.25759	0.130349	-1.583	1.111	0.14	-0.32
OCT	12	54020	0.01571	0.25793	0.129318	-1.129	0.953	0.19	-0.30
OCT	13	54021	0.01313	0.25771	0.128399	-0.603	0.853	0.09	-0.08
OCT	14	54022	0.01129	0.25743	0.127579	-0.120	0.838	-0.03	0.02
OCT	15	54023	0.00990	0.25770	0.126703	0.240	0.945	-0.05	-0.08
OCT	16	54024	0.00849	0.25857	0.125682	0.438	1.071	0.03	-0.18
OCT	17	54025	0.00726	0.25954	0.124504	0.466	1.242	0.13	-0.12
OCT	18	54026	0.00624	0.26033	0.123208	0.343	1.362	0.22	0.06
OCT	19	54027	0.00526	0.26125	0.121796	0.110	1.461	0.27	0.14
OCT	20	54028	0.00423	0.26200	0.120308	-0.174	1.498	0.26	0.08
OCT	21	54029	0.00351	0.26277	0.118824	-0.443	1.478	0.00	0.00
OCT	22	54030	0.00300	0.26378	0.117372	-0.628	1.347	0.00	0.00
OCT	23	54031	0.00223	0.26476	0.116025	-0.676	1.288	0.00	0.00
OCT	24	54032	0.00104	0.26598	0.114803	-0.553	1.135	0.00	0.00

OCT	25	54033	-0.00054	0.26703	0.113752	-0.254	0.967	0.00	0.00
OCT	26	54034	-0.00184	0.26770	0.112855	0.192	0.828	0.00	0.00
OCT	27	54035	-0.00245	0.26829	0.112069	0.723	0.751	0.00	0.00
OCT	28	54036	-0.00286	0.26877	0.111319	1.250	0.768	0.00	0.00
OCT	29	54037	-0.00309	0.26940	0.110495	1.665	0.887	0.00	0.00
OCT	30	54038	-0.00333	0.27036	0.109512	1.862	1.102	0.00	0.00
OCT	31	54039	-0.00383	0.27140	0.108272	1.765	1.392	0.00	0.00
NOV	1	54040	-0.00408	0.27253	0.106723	1.353	1.706	0.00	0.00
NOV	2	54041	-0.00427	0.27378	0.104877	0.680	1.954	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"	0.0001s	0.001"			
SEP	1	53979	0.08252	0.25393	0.170182	0.064	-.137	0.01	0.01	0.02	0.03	0.03
SEP	6	53984	0.07687	0.25423	0.168954	0.028	-.175	0.02	0.02	0.02	0.02	0.02
SEP	11	53989	0.07086	0.25389	0.162082	-.080	0.319	0.02	0.02	0.02	0.02	0.03
SEP	16	53994	0.06337	0.25185	0.159178	0.073	-.110	0.01	0.01	0.02	0.05	0.06
SEP	21	53999	0.05426	0.25289	0.155906	0.135	0.046	0.02	0.01	0.02	0.02	0.03
SEP	26	54004	0.04336	0.25203	0.150395	0.208	-.051	0.02	0.01	0.02	0.02	0.03
OCT	1	54009	0.03267	0.25235	0.146855	0.154	-.138	0.01	0.01	0.01	0.02	0.02
OCT	6	54014	0.02527	0.25399	0.139428	0.035	0.012	0.02	0.02	0.02	0.05	0.05
OCT	11	54019	0.01830	0.25757	0.130346	0.145	-.344	0.01	0.02	0.02	0.02	0.03
OCT	16	54024	0.00848	0.25857	0.125681	0.022	-.175	0.01	0.02	0.02	0.02	0.03
OCT	21	54029	0.00351	0.26275	0.118822	-	-	0.02	0.02	0.02	-	-
OCT	26	54034	-0.00184	0.26771	0.112853	-	-	0.01	0.01	0.02	-	-
OCT	31	54039	-0.00384	0.27140	0.108277	-	-	0.03	0.03	0.06	-	-

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)		
SEP 1	53979	0.00051	72.921	15103
SEP 6	53984	0.00062		15094
SEP 11	53989	0.00075		15083
SEP 16	53994	0.00082		15077
SEP 21	53999	0.00083		15076
SEP 26	54004	0.00098		15064
OCT 1	54009	0.00124		15042

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	0.08	0.03	-	-	-	14
53979.27 to 54028.27			0.14	0.15	0.07	-	-	-	
EOP(BKG)	3	R 4	0.07	0.07	0.03	-	-	-	16
53979.27 to 54028.27			0.12	0.13	0.06	-	-	-	
EOP(BKG)	3	R 2	-	-	0.13	-	-	-	51
53979.80 to 54039.79			-	-	0.16	-	-	-	
EOP(USNO)	5	R 1	-	-	0.14	-	-	-	52
53979.80 to 54038.79			-	-	0.12	-	-	-	
EOP(GSFC)	6	R 1	-	-	0.13	-	-	-	51
53979.80 to 54039.79			-	-	0.17	-	-	-	
EOP(IAA)	5	R 2	0.08	0.08	0.04	-	0.06	0.06	15
53979.27 to 54028.27			0.13	0.14	0.09	-	0.11	0.13	
EOP(IAA)	5	R 1	-	-	0.14	-	-	-	50
53979.80 to 54038.79			-	-	0.15	-	-	-	
EOP(SPBU)	3	R 3	0.26	0.32	0.17	-	-	-	12
53979.27 to 54028.27			0.21	0.11	0.11	-	-	-	
EOP(SPBU)	2	R 1	-	-	0.14	-	-	-	50
53979.80 to 54038.79			-	-	0.13	-	-	-	
EOP(MAO)	3	R 1	0.09	0.09	0.04	-	0.06	0.06	13
53979.32 to 54021.30			0.15	0.10	0.10	-	0.04	0.18	
EOP(GSFC)	6	R 1	0.07	0.07	0.03	-	-	-	17
53979.27 to 54028.27			0.08	0.14	0.07	-	-	-	
EOP(USNO)	6	R 2	0.07	0.07	0.03	-	-	-	15
53979.27 to 54028.27			0.11	0.15	0.06	-	-	-	
EOP(IVS)	0	R 1	0.05	0.05	0.02	-	-	-	14
53979.00 to 54028.00			0.15	0.17	0.05	-	-	-	
GPS									
EOP(CODE)	98	P 1	0.01	0.01	-	0.08	-	-	62
53979.50 to 54040.50			0.06	0.03	-	0.25	-	-	
EOP(EMR)	96	P 3	0.03	0.03	-	0.04	-	-	62
53979.50 to 54040.50			0.09	0.06	-	0.45	-	-	
EOP(ESOC)	96	P 1	0.01	0.01	-	0.05	-	-	52
53979.50 to 54030.50			0.04	0.07	-	0.59	-	-	
EOP(GFZ)	96	P 2	0.01	0.01	-	0.02	-	-	62
53979.50 to 54040.50			0.04	0.11	-	0.26	-	-	
EOP(IAA)	1	P 1	0.03	0.03	-	0.06	-	-	62
53979.50 to 54040.50			0.18	0.30	-	0.56	-	-	
EOP(JPL)	96	P 3	0.02	0.02	-	0.15	-	-	51
53979.50 to 54029.50			0.05	0.04	-	0.35	-	-	
EOP(NOAA)	96	P 1	0.01	0.01	-	0.02	-	-	54
53979.50 to 54032.50			0.11	0.13	-	0.29	-	-	
EOP(SIO)	96	P 1	0.12	0.13	-	0.30	-	-	60
53979.50 to 54038.50			0.05	0.35	-	0.29	-	-	
EOP(IGS F)	95	P 2	0.02	0.02	0.08	0.06	-	-	44
53979.50 to 54022.50			0.03	0.08	0.21	0.20	-	-	
EOP(IGS R)	96	P 2	0.04	0.05	0.20	0.07	-	-	62
53979.50 to 54040.50			0.07	0.06	0.52	0.22	-	-	

EOP(IERS) 97 P 1	0.03	0.03	0.20	0.13	-	-	62
53979.50 to 54040.50	0.03	0.02	0.34	0.27	-	-	
SLR							
EOP(ASI) 3 L 2	0.06	0.06	-	0.15	-	-	61
53979.50 to 54039.50	0.38	0.14	-	0.46	-	-	
EOP(IAA) 2 L 1	0.03	0.03	0.02	0.02	-	-	61
53979.00 to 54039.00	0.12	0.17	0.20	0.15	-	-	
EOP(MCC) 97 L 1	0.15	0.16	-	0.10	-	-	56
53979.00 to 54034.00	0.19	0.38	-	3.01	-	-	
EOP(ILRS) 5 L 1	0.05	0.06	-	0.13	-	-	58
53979.50 to 54036.50	0.12	0.15	-	0.58	-	-	
Bulletin A							
EOP(NEOS) 97 C 1	0.04	0.06	0.06	-	-	-	63
53979.00 to 54041.00	0.04	0.08	0.20	-	-	-	