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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 2007 (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	54344	0.19789	0.26192	-0.164506	-33.164506	-0.13	-0.28
SEP	6	54349	0.19063	0.25185	-0.167014	-33.167014	0.01	-0.29
SEP	11	54354	0.18288	0.24260	-0.169752	-33.169752	-0.09	-0.23
SEP	16	54359	0.17237	0.23225	-0.173018	-33.173018	-0.32	-0.09
SEP	21	54364	0.16053	0.22296	-0.176890	-33.176890	0.02	-0.24
SEP	26	54369	0.14657	0.21486	-0.181098	-33.181098	-0.02	-0.29
OCT	1	54374	0.13362	0.20648	-0.185790	-33.185790	-0.09	-0.11

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

OCT	6	54379	0.11862	0.20056	-0.190385	-33.190385	0.12	-0.22
OCT	11	54384	0.10331	0.19594	-0.194298	-33.194298	-0.13	-0.14
OCT	16	54389	0.08893	0.19258	-0.198786	-33.198786	0.06	-0.02
OCT	21	54394	0.07340	0.19051	-0.203674	-33.203674	0.00	0.00
OCT	26	54399	0.06158	0.19013	-0.208093	-33.208093	0.00	0.00
OCT	31	54404	0.04769	0.19092	-0.211874	-33.211874	0.00	0.00
NOV	5	54409	0.03151	0.19245	-0.216615	-33.216615	0.00	0.00
NOV	10	54414	0.01637	0.19443	-0.223991	-33.223991	0.00	0.00
NOV	15	54419	0.00023	0.19683	-0.231396	-33.231396	0.00	0.00
NOV	20	54424	-0.01474	0.20011	-0.238529	-33.238529	0.00	0.00
NOV	25	54429	-0.03327	0.20342	-0.245445	-33.245445	0.00	0.00
NOV	30	54434	-0.04890	0.20903	-0.252134	-33.252134	0.00	0.00
DEC	5	54439	-0.06531	0.21507	-0.258650	-33.258650	0.00	0.00
DEC	10	54444	-0.08029	0.22263	-0.264983	-33.264983	0.00	0.00
DEC	15	54449	-0.09545	0.23041	-0.271117	-33.271117	0.00	0.00
DEC	20	54454	-0.10686	0.24021	-0.277114	-33.277114	0.00	0.00

DEC 25	54459	-0.11820	0.24931	-0.282951	-33.282951	0.00	0.00
DEC 30	54464	-0.12975	0.26027	-0.288620	-33.288620	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 2006 IERS Annual Report.

2007		MJD	x	y	UT1-UTC	UT1-UT1R	D	dX	dY
(0 h UTC)			"	"	s	ms	ms	0.001"	0.001"
SEP	1	54344	0.19789	0.26192	-0.165648	-1.142	0.879	-0.16	-0.36
SEP	2	54345	0.19672	0.25985	-0.166397	-1.453	0.640	-0.21	-0.35
SEP	3	54346	0.19534	0.25784	-0.166898	-1.448	0.368	-0.22	-0.34
SEP	4	54347	0.19405	0.25591	-0.167105	-1.171	0.137	-0.16	-0.33
SEP	5	54348	0.19260	0.25383	-0.167178	-0.726	0.032	-0.07	-0.31
SEP	6	54349	0.19063	0.25185	-0.167257	-0.242	0.063	0.01	-0.29
SEP	7	54350	0.18849	0.24977	-0.167358	0.165	0.203	0.01	-0.25
SEP	8	54351	0.18688	0.24771	-0.167663	0.412	0.410	-0.08	-0.20
SEP	9	54352	0.18557	0.24604	-0.168144	0.462	0.605	-0.19	-0.17
SEP	10	54353	0.18434	0.24443	-0.168883	0.327	0.770	-0.20	-0.18
SEP	11	54354	0.18288	0.24260	-0.169698	0.054	0.869	-0.09	-0.23
SEP	12	54355	0.18107	0.24054	-0.170603	-0.284	0.934	0.07	-0.28
SEP	13	54356	0.17924	0.23846	-0.171547	-0.608	0.940	0.09	-0.26
SEP	14	54357	0.17736	0.23637	-0.172456	-0.844	0.839	-0.07	-0.19
SEP	15	54358	0.17513	0.23427	-0.173240	-0.936	0.712	-0.25	-0.12
SEP	16	54359	0.17237	0.23225	-0.173873	-0.855	0.557	-0.32	-0.09
SEP	17	54360	0.16964	0.23033	-0.174348	-0.595	0.429	-0.27	-0.12
SEP	18	54361	0.16725	0.22855	-0.174717	-0.181	0.297	-0.15	-0.17
SEP	19	54362	0.16518	0.22669	-0.174942	0.341	0.228	-0.04	-0.21
SEP	20	54363	0.16314	0.22483	-0.175194	0.902	0.270	0.01	-0.23
SEP	21	54364	0.16053	0.22296	-0.175470	1.419	0.351	0.02	-0.24
SEP	22	54365	0.15764	0.22110	-0.175962	1.798	0.548	0.01	-0.25
SEP	23	54366	0.15476	0.21962	-0.176592	1.948	0.809	0.01	-0.27
SEP	24	54367	0.15176	0.21802	-0.177564	1.801	1.082	0.01	-0.29
SEP	25	54368	0.14905	0.21634	-0.178783	1.346	1.439	0.00	-0.30
SEP	26	54369	0.14657	0.21486	-0.180448	0.650	1.687	-0.02	-0.29
SEP	27	54370	0.14406	0.21305	-0.182112	-0.148	1.698	-0.06	-0.24
SEP	28	54371	0.14152	0.21120	-0.183741	-0.870	1.544	-0.10	-0.18
SEP	29	54372	0.13869	0.20952	-0.185184	-1.354	1.277	-0.12	-0.13
SEP	30	54373	0.13612	0.20782	-0.186286	-1.511	0.974	-0.11	-0.10
OCT	1	54374	0.13362	0.20648	-0.187141	-1.351	0.696	-0.09	-0.11
OCT	2	54375	0.13060	0.20526	-0.187710	-0.967	0.544	-0.06	-0.16
OCT	3	54376	0.12755	0.20402	-0.188280	-0.496	0.524	-0.03	-0.22
OCT	4	54377	0.12455	0.20289	-0.188834	-0.071	0.553	-0.01	-0.26
OCT	5	54378	0.12158	0.20167	-0.189385	0.212	0.656	0.05	-0.26
OCT	6	54379	0.11862	0.20056	-0.190074	0.310	0.785	0.12	-0.22
OCT	7	54380	0.11570	0.19937	-0.190957	0.226	0.919	0.19	-0.16
OCT	8	54381	0.11282	0.19827	-0.191939	-0.002	1.030	0.20	-0.12
OCT	9	54382	0.10981	0.19756	-0.192987	-0.312	1.063	0.12	-0.12
OCT	10	54383	0.10663	0.19681	-0.194063	-0.628	1.102	-0.02	-0.14
OCT	11	54384	0.10331	0.19594	-0.195178	-0.880	1.056	-0.13	-0.14
OCT	12	54385	0.10023	0.19505	-0.196171	-1.006	0.929	-0.06	-0.07
OCT	13	54386	0.09755	0.19430	-0.197024	-0.965	0.779	0.08	0.02
OCT	14	54387	0.09488	0.19357	-0.197705	-0.745	0.597	0.17	0.08
OCT	15	54388	0.09203	0.19298	-0.198228	-0.362	0.467	0.15	0.07
OCT	16	54389	0.08893	0.19258	-0.198642	0.144	0.399	0.06	-0.02
OCT	17	54390	0.08587	0.19212	-0.199030	0.710	0.428	-0.05	-0.13
OCT	18	54391	0.08299	0.19181	-0.199516	1.261	0.515	-0.09	-0.22
OCT	19	54392	0.07988	0.19148	-0.200042	1.712	0.658	-0.07	-0.16
OCT	20	54393	0.07663	0.19101	-0.200751	1.978	0.860	0.00	0.00
OCT	21	54394	0.07340	0.19051	-0.201686	1.987	1.033	0.00	0.00
OCT	22	54395	0.07070	0.19011	-0.202840	1.700	1.253	0.00	0.00
OCT	23	54396	0.06858	0.19012	-0.204238	1.139	1.542	0.00	0.00
OCT	24	54397	0.06640	0.19041	-0.205854	0.398	1.705	0.00	0.00

OCT 25 54398 0.06409 0.19037 -0.207538 -0.368 1.638 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				
2007	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"		
SEP 1	54344	0.19788	0.26191	-0.165652	-.224	-.355	0.01	0.01	0.02	0.10	0.07
SEP 6	54349	0.19062	0.25183	-0.167250	0.012	-.258	0.01	0.01	0.01	0.02	0.02
SEP 11	54354	0.18288	0.24261	-0.169695	-.086	-.264	0.01	0.02	0.03	0.10	0.10
SEP 16	54359	0.17236	0.23224	-0.173873	-.327	-.012	0.01	0.01	0.01	0.05	0.04
SEP 21	54364	0.16053	0.22294	-0.175470	0.055	-.262	0.01	0.02	0.02	0.07	0.07
SEP 26	54369	0.14655	0.21486	-0.180440	-.021	-.307	0.01	0.01	0.02	0.06	0.04
OCT 1	54374	0.13363	0.20646	-0.187134	-.091	-.092	0.02	0.02	0.02	0.06	0.05
OCT 6	54379	0.11862	0.20053	-0.190073	0.017	-.208	0.02	0.02	0.06	0.33	0.29
OCT 11	54384	0.10330	0.19594	-0.195172	-.123	-.120	0.01	0.01	0.02	0.04	0.03
OCT 16	54389	0.08901	0.19251	-0.198650	0.088	-.169	0.03	0.04	0.12	1.03	1.37
OCT 21	54394	0.07344	0.19048	-0.201691	-	-	0.03	0.04	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		
2007 MJD	s	(microrad/s)		
SEP 1	54344	0.00042	72.921	15111
SEP 6	54349	0.00053		15102
SEP 11	54354	0.00056		15100
SEP 16	54359	0.00073		15085
SEP 21	54364	0.00082		15077
SEP 26	54369	0.00092		15069
OCT 1	54374	0.00099		15063

5 - INFORMATION ON TIME SCALES

No leap second will be introduced in UTC on 31 December 2007.  
 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.

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EOP series	Mean formal uncertainty						
Periods covered	Weighted RMS agreement with Bulletin B						
	x	y	UT	D	dX	dY	Data Number

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## VLBI

EOP(AUS) 1 R 1	0.08	0.10	0.03	-	-	-	11
54348.21 to 54392.27	0.13	0.13	0.06	-	-	-	
EOP(BKG) 3 R 4	0.12	0.07	0.06	-	-	-	16
54348.21 to 54392.27	0.09	0.10	0.08	-	-	-	
EOP(BKG) 3 R 2	-	-	0.12	-	-	-	57
54344.33 to 54397.79	-	-	0.12	-	-	-	
EOP(USNO) 5 R 1	-	-	0.13	-	-	-	60
54344.33 to 54397.79	-	-	0.13	-	-	-	
EOP(GSFC) 6 R 1	-	-	0.13	-	-	-	57
54344.33 to 54397.79	-	-	0.13	-	-	-	
EOP(IAA) 5 R 2	0.06	0.06	0.03	-	0.04	0.04	14
54348.21 to 54392.27	0.11	0.11	0.05	-	0.03	0.06	
EOP(IAA) 5 R 1	-	-	0.13	-	-	-	56
54344.33 to 54397.79	-	-	0.17	-	-	-	
EOP(MAO) 3 R 1	0.33	0.11	0.22	-	0.07	0.07	11
54348.20 to 54378.30	0.12	0.09	0.07	-	0.05	0.03	
EOP(GSFC) 6 R 1	0.17	0.09	0.10	-	-	-	16
54348.21 to 54392.27	0.12	0.10	0.06	-	-	-	
EOP(USNO) 6 R 2	0.06	0.06	0.03	-	-	-	12
54348.21 to 54385.27	0.06	0.08	0.04	-	-	-	
EOP(IVS) 7 R 1	0.03	0.04	0.02	-	-	-	11
54348.21 to 54385.27	0.05	0.11	0.05	-	-	-	

## GPS

EOP(CODE) 98 P 1	0.01	0.01	-	0.08	-	-	54
54344.50 to 54397.50	0.03	0.03	-	0.13	-	-	
EOP(EMR) 96 P 3	0.03	0.03	-	0.04	-	-	54
54344.50 to 54397.50	0.06	0.05	-	0.32	-	-	
EOP(ESOC) 96 P 1	0.01	0.01	-	0.05	-	-	54
54344.50 to 54397.50	0.05	0.05	-	0.49	-	-	
EOP(GFZ) 96 P 2	0.01	0.01	-	0.01	-	-	40
54344.50 to 54383.50	0.04	0.05	-	0.17	-	-	
EOP(IAA) 1 P 1	0.03	0.03	-	0.06	-	-	54
54344.50 to 54397.50	0.15	0.33	-	0.30	-	-	
EOP(JPL) 96 P 3	0.01	0.01	-	0.08	-	-	50
54344.50 to 54393.50	0.06	0.16	-	3.66	-	-	
EOP(NOAA) 96 P 1	0.01	0.01	-	0.01	-	-	46
54344.50 to 54389.50	0.06	0.07	-	0.16	-	-	
EOP(SIO) 96 P 1	0.02	0.02	-	0.06	-	-	50
54344.50 to 54393.50	0.04	0.05	-	0.28	-	-	
EOP(IGS R)96 P 2	0.02	0.03	0.16	0.05	-	-	54
54344.50 to 54397.50	0.03	0.04	0.40	0.09	-	-	
EOP(IGS) 0 P 3	0.02	0.02	0.10	0.07	-	-	43
54344.50 to 54386.50	0.02	0.02	0.23	0.12	-	-	
EOP(IERS) 97 P 1	0.03	0.03	0.35	0.25	-	-	54
54344.50 to 54397.50	0.05	0.03	0.58	0.14	-	-	

## SLR

EOP(ASI) 3 L 2	0.07	0.07	-	0.16	-	-	53
54344.50 to 54396.50	0.19	0.21	-	0.50	-	-	
EOP(IAA) 2 L 1	0.03	0.04	0.02	0.02	-	-	55
54344.00 to 54398.00	0.14	0.12	0.23	0.16	-	-	
EOP(MCC) 97 L 1	0.14	0.17	-	0.10	-	-	48
54344.00 to 54391.00	0.10	0.12	-	2.32	-	-	
EOP(ILRS) 5 L 1	0.06	0.07	-	0.16	-	-	50
54344.50 to 54393.50	0.26	0.20	-	0.64	-	-	

EOP(NEOS) 97 C 1	0.05	0.05	0.07	-	-	-	55
54344.00 to 54398.00	0.06	0.08	0.19	-	-	-	