BULLETIN B 236
(IAU 2000)
01 October 2007

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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 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 2007 (0h UTC)		MJD	x "	y "	UT1R-UTC s	UT1R-TAI s	dX 0.001"	dY 0.001"
Final Bulletin B values.								
AUG	2	54314	0.22663	0.33155	-0.162447	-33.162447	-0.30	-0.71
AUG	7	54319	0.22284	0.31856	-0.163106	-33.163106	-0.04	-0.35
AUG	12	54324	0.21691	0.30573	-0.163266	-33.163266	0.08	-0.39
AUG	17	54329	0.21271	0.29551	-0.162970	-33.162970	-0.02	-0.40
AUG	22	54334	0.20962	0.28206	-0.163506	-33.163506	-0.05	-0.39
AUG	27	54339	0.20179	0.27039	-0.163699	-33.163699	0.02	-0.40
SEP	1	54344	0.19789	0.26192	-0.164506	-33.164506	-0.13	-0.28
Preliminary extension, to be updated weekly in Bulletin A and monthly in Bulletin B.								
SEP	6	54349	0.19063	0.25185	-0.167013	-33.167013	-0.04	-0.29
SEP	11	54354	0.18288	0.24260	-0.169747	-33.169747	0.10	-0.32
SEP	16	54359	0.17236	0.23226	-0.173017	-33.173017	0.00	0.00
SEP	21	54364	0.16057	0.22298	-0.176910	-33.176910	0.00	0.00
SEP	26	54369	0.14657	0.21481	-0.181192	-33.181192	0.00	0.00
OCT	1	54374	0.13405	0.20624	-0.181673	-33.181673	0.00	0.00
OCT	6	54379	0.12359	0.19953	-0.184700	-33.184700	0.00	0.00
OCT	11	54384	0.11114	0.19324	-0.191081	-33.191081	0.00	0.00
OCT	16	54389	0.09711	0.18713	-0.197916	-33.197916	0.00	0.00
OCT	21	54394	0.08232	0.18290	-0.204691	-33.204691	0.00	0.00
OCT	26	54399	0.06889	0.17929	-0.211465	-33.211465	0.00	0.00
OCT	31	54404	0.05455	0.17634	-0.218255	-33.218255	0.00	0.00
NOV	5	54409	0.03946	0.17519	-0.225051	-33.225051	0.00	0.00
NOV	10	54414	0.02453	0.17565	-0.231866	-33.231866	0.00	0.00
NOV	15	54419	0.00875	0.17661	-0.238635	-33.238635	0.00	0.00
NOV	20	54424	-0.00613	0.17902	-0.245337	-33.245337	0.00	0.00

NOV	25	54429	-0.02449	0.18146	-0.251978	-33.251978	0.00	0.00
NOV	30	54434	-0.03936	0.18658	-0.258462	-33.258462	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 (0 h UTC)		MJD	x "	y "	UT1-UTC s	UT1-UT1R ms	D ms	dX 0.001"	dY 0.001"
AUG	2	54314	0.22663	0.33155	-0.161809	0.644	0.710	-0.10	-0.41
AUG	3	54315	0.22631	0.32914	-0.162602	-0.049	0.810	-0.16	-0.44
AUG	4	54316	0.22597	0.32655	-0.163369	-0.693	0.699	-0.20	-0.46
AUG	5	54317	0.22531	0.32368	-0.163950	-1.153	0.489	-0.18	-0.43
AUG	6	54318	0.22414	0.32099	-0.164326	-1.345	0.202	-0.12	-0.38
AUG	7	54319	0.22284	0.31856	-0.164357	-1.252	-0.087	-0.04	-0.35
AUG	8	54320	0.22141	0.31607	-0.164150	-0.926	-0.311	0.02	-0.38
AUG	9	54321	0.21966	0.31347	-0.163749	-0.469	-0.430	0.06	-0.43
AUG	10	54322	0.21810	0.31091	-0.163289	-0.004	-0.439	0.08	-0.47
AUG	11	54323	0.21725	0.30828	-0.162919	0.355	-0.300	0.09	-0.44
AUG	12	54324	0.21691	0.30573	-0.162732	0.535	-0.067	0.08	-0.39
AUG	13	54325	0.21668	0.30335	-0.162765	0.509	0.082	0.05	-0.35
AUG	14	54326	0.21627	0.30111	-0.162900	0.306	0.186	0.02	-0.35
AUG	15	54327	0.21544	0.29913	-0.163131	-0.012	0.255	-0.01	-0.39
AUG	16	54328	0.21416	0.29744	-0.163415	-0.366	0.257	-0.03	-0.42
AUG	17	54329	0.21271	0.29551	-0.163647	-0.677	0.229	-0.02	-0.40
AUG	18	54330	0.21158	0.29289	-0.163868	-0.880	0.188	0.00	-0.34
AUG	19	54331	0.21083	0.28996	-0.163989	-0.928	0.087	0.01	-0.29
AUG	20	54332	0.21041	0.28697	-0.163992	-0.800	-0.058	0.01	-0.28
AUG	21	54333	0.21023	0.28431	-0.163854	-0.500	-0.220	-0.01	-0.33
AUG	22	54334	0.20962	0.28206	-0.163563	-0.057	-0.369	-0.05	-0.39
AUG	23	54335	0.20836	0.27972	-0.163129	0.475	-0.459	-0.07	-0.44
AUG	24	54336	0.20663	0.27739	-0.162626	1.019	-0.486	-0.07	-0.43
AUG	25	54337	0.20476	0.27501	-0.162190	1.483	-0.374	-0.05	-0.41
AUG	26	54338	0.20302	0.27257	-0.161904	1.765	-0.151	-0.01	-0.39
AUG	27	54339	0.20179	0.27039	-0.161918	1.781	0.149	0.02	-0.40
AUG	28	54340	0.20095	0.26862	-0.162209	1.490	0.461	0.02	-0.44
AUG	29	54341	0.20010	0.26704	-0.162867	0.924	0.747	-0.01	-0.46
AUG	30	54342	0.19938	0.26550	-0.163715	0.188	0.941	-0.06	-0.44
AUG	31	54343	0.19869	0.26382	-0.164685	-0.555	0.987	-0.11	-0.37
SEP	1	54344	0.19789	0.26192	-0.165648	-1.142	0.879	-0.13	-0.28
SEP	2	54345	0.19672	0.25985	-0.166397	-1.453	0.640	-0.13	-0.21
SEP	3	54346	0.19534	0.25784	-0.166898	-1.448	0.367	-0.11	-0.20
SEP	4	54347	0.19405	0.25591	-0.167106	-1.171	0.136	-0.08	-0.24
SEP	5	54348	0.19260	0.25383	-0.167179	-0.726	0.031	-0.05	-0.29
SEP	6	54349	0.19063	0.25185	-0.167255	-0.242	0.062	-0.04	-0.29
SEP	7	54350	0.18849	0.24977	-0.167358	0.165	0.202	-0.02	-0.25
SEP	8	54351	0.18688	0.24771	-0.167663	0.412	0.409	0.02	-0.22
SEP	9	54352	0.18557	0.24604	-0.168143	0.462	0.604	0.08	-0.24
SEP	10	54353	0.18434	0.24443	-0.168884	0.327	0.770	0.11	-0.29
SEP	11	54354	0.18288	0.24260	-0.169693	0.054	0.871	0.10	-0.32
SEP	12	54355	0.18107	0.24054	-0.170626	-0.284	0.935	0.03	-0.28
SEP	13	54356	0.17924	0.23846	-0.171542	-0.608	0.941	-0.05	-0.19
SEP	14	54357	0.17736	0.23637	-0.172457	-0.844	0.843	-0.13	-0.11
SEP	15	54358	0.17513	0.23426	-0.173239	-0.936	0.721	0.00	0.00
SEP	16	54359	0.17236	0.23226	-0.173872	-0.855	0.560	0.00	0.00
SEP	17	54360	0.16963	0.23030	-0.174350	-0.595	0.428	0.00	0.00
SEP	18	54361	0.16726	0.22854	-0.174711	-0.181	0.299	0.00	0.00
SEP	19	54362	0.16517	0.22667	-0.174975	0.341	0.223	0.00	0.00
SEP	20	54363	0.16316	0.22481	-0.175184	0.902	0.269	0.00	0.00
SEP	21	54364	0.16057	0.22298	-0.175491	1.419	0.350	0.00	0.00
SEP	22	54365	0.15766	0.22107	-0.175959	1.798	0.545	0.00	0.00
SEP	23	54366	0.15479	0.21959	-0.176591	1.948	0.805	0.00	0.00
SEP	24	54367	0.15176	0.21801	-0.177564	1.801	1.073	0.00	0.00

SEP 25	54368	0.14905	0.21634	-0.178750	1.346	1.428	0.00	0.00
SEP 26	54369	0.14657	0.21481	-0.180541	0.650	1.684	0.00	0.00
SEP 27	54370	0.14410	0.21310	-0.181741	-0.148	1.687	0.00	0.00

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

	Raw normal values					Uncertainties				
2007 (0 h UTC)	MJD	x "	y "	UT1-UTC s	dX 0.001"	dY	x 0.001"	y	UT1 0.0001s	dX 0.001"	dY
AUG 2	54314	0.22661	0.33154	-0.161808	-.062	-.400	0.01	0.01	0.02	0.05	0.04
AUG 7	54319	0.22283	0.31853	-0.164352	-.045	-.385	0.01	0.01	0.02	0.06	0.04
AUG 12	54324	0.21689	0.30571	-0.162724	0.076	-.373	0.01	0.01	0.02	0.04	0.04
AUG 17	54329	0.21271	0.29549	-0.163635	-.087	-.306	0.01	0.01	0.03	0.10	0.08
AUG 22	54334	0.20960	0.28206	-0.163553	-.051	-.373	0.02	0.02	0.02	0.04	0.03
AUG 27	54339	0.20178	0.27038	-0.161908	-.035	-.358	0.01	0.02	0.02	0.06	0.05
SEP 1	54344	0.19788	0.26191	-0.165652	-.196	-.295	0.01	0.01	0.02	0.10	0.07
SEP 6	54349	0.19062	0.25183	-0.167249	-.032	-.268	0.01	0.01	0.01	0.02	0.02
SEP 11	54354	0.18288	0.24259	-0.169697	-	-	0.01	0.01	0.08	-	-
SEP 16	54359	0.17235	0.23225	-0.173866	-	-	0.01	0.02	0.04	-	-
SEP 21	54364	0.16055	0.22294	-0.175493	-	-	0.03	0.04	0.06	-	-
SEP 26	54369	0.14656	0.21479	-0.180561	-	-	0.02	0.05	0.08	-	-

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) 2007	MJD	DR s	OmegaR (microrad/s)	
AUG 2	54314	0.00005	72.921	15143
AUG 7	54319	0.00014		15135
AUG 12	54324	0.00001		15146
AUG 17	54329	-0.00004		15150
AUG 22	54334	0.00013		15135
AUG 27	54339	0.00002		15145
SEP 1	54344	0.00042		15111

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 or 145.238.100.28

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	0.06	0.07	0.03	-	-	-		11
54315.27 to 54357.27	0.11	0.10	0.09	-	-	-		
EOP(BKG) 3 R 4	0.06	0.06	0.03	-	-	-		12
54315.27 to 54357.27	0.07	0.09	0.08	-	-	-		
EOP(BKG) 3 R 2	-	-	0.11	-	-	-		56
54314.79 to 54367.79	-	-	0.14	-	-	-		
EOP(USNO) 5 R 1	-	-	0.11	-	-	-		53
54314.79 to 54367.31	-	-	0.16	-	-	-		
EOP(GSFC) 6 R 1	-	-	0.12	-	-	-		56
54314.79 to 54367.79	-	-	0.14	-	-	-		
EOP(IAA) 5 R 2	0.05	0.06	0.03	-	0.04	0.04		12
54315.27 to 54357.27	0.09	0.10	0.06	-	0.05	0.03		
EOP(IAA) 5 R 1	-	-	0.12	-	-	-		55
54314.79 to 54367.79	-	-	0.16	-	-	-		
EOP(MAO) 3 R 1	0.06	0.07	0.04	-	0.05	0.05		12
54314.29 to 54350.31	0.11	0.13	0.08	-	0.04	0.06		
EOP(GSFC) 6 R 1	0.06	0.06	0.03	-	-	-		13
54314.25 to 54357.27	0.08	0.09	0.08	-	-	-		
EOP(USNO) 6 R 2	0.06	0.06	0.03	-	-	-		12
54315.27 to 54357.27	0.06	0.09	0.08	-	-	-		
EOP(IVS) 7 R 1	0.03	0.04	0.02	-	-	-		11
54315.27 to 54350.27	0.06	0.12	0.06	-	-	-		
GPS								
EOP(CODE) 98 P 1	0.01	0.01	-	0.07	-	-		56
54314.50 to 54369.50	0.03	0.03	-	0.13	-	-		
EOP(EMR) 96 P 3	0.03	0.03	-	0.04	-	-		56
54314.50 to 54369.50	0.05	0.05	-	0.15	-	-		
EOP(ESOC) 96 P 1	0.01	0.01	-	0.04	-	-		55
54314.50 to 54368.50	0.05	0.05	-	0.32	-	-		
EOP(GFZ) 96 P 2	0.00	0.01	-	0.01	-	-		56
54314.50 to 54369.50	0.04	0.04	-	0.17	-	-		
EOP(IAA) 1 P 1	0.03	0.03	-	0.07	-	-		56
54314.50 to 54369.50	0.17	0.26	-	0.30	-	-		
EOP(JPL) 96 P 3	0.02	0.02	-	0.12	-	-		24
54314.50 to 54337.50	0.05	0.05	-	0.28	-	-		
EOP(NOAA) 96 P 1	0.00	0.00	-	0.00	-	-		48
54314.50 to 54361.50	0.10	0.06	-	0.20	-	-		
EOP(SIO) 96 P 1	0.06	0.06	-	0.19	-	-		56
54314.50 to 54369.50	0.03	0.06	-	0.19	-	-		
EOP(IGS R)96 P 2	0.02	0.03	0.16	0.05	-	-		56
54314.50 to 54369.50	0.03	0.04	0.42	0.11	-	-		
EOP(IGS) 0 P 3	0.02	0.02	0.10	0.08	-	-		45
54314.50 to 54358.50	0.01	0.01	0.24	0.09	-	-		
EOP(IERS) 97 P 1	0.03	0.03	0.20	0.13	-	-		56
54314.50 to 54369.50	0.03	0.03	0.16	0.14	-	-		
SLR								
EOP(ASI) 3 L 2	0.07	0.07	-	0.16	-	-		55
54314.50 to 54368.50	0.22	0.20	-	0.48	-	-		
EOP(IAA) 2 L 1	0.04	0.04	0.02	0.02	-	-		55
54314.00 to 54368.00	0.15	0.16	0.22	0.18	-	-		
EOP(MCC) 97 L 1	0.15	0.18	-	0.10	-	-		50
54314.00 to 54363.00	0.12	0.11	-	2.48	-	-		

EOP(ILRS) 5 L 1	0.07	0.08	-	0.18	-	-	45
54314.50 to 54358.50	0.20	0.22	-	0.76	-	-	
Bulletin A							
EOP(NEOS) 97 C 1	0.05	0.05	0.07	-	-	-	57
54314.00 to 54370.00	0.06	0.08	0.12	-	-	-	