

=====
 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.

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

Final Bulletin B values.

AUG	2	53584	-0.00119	0.42132	-0.602644	-32.602644	0.17	-0.10
AUG	7	53589	0.00875	0.42278	-0.602060	-32.602060	0.40	-0.28
AUG	12	53594	0.02013	0.42698	-0.602378	-32.602378	0.21	-0.07
AUG	17	53599	0.02612	0.42917	-0.602382	-32.602382	0.25	-0.05
AUG	22	53604	0.03282	0.42873	-0.601976	-32.601976	0.42	0.00
AUG	27	53609	0.03952	0.42681	-0.601408	-32.601408	0.20	0.02
SEP	1	53614	0.04213	0.42493	-0.599973	-32.599973	0.30	0.07

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

SEP	6	53619	0.04482	0.42340	-0.599516	-32.599516	0.22	-0.36
SEP	11	53624	0.05019	0.42299	-0.600769	-32.600769	0.30	-0.16
SEP	16	53629	0.05101	0.42102	-0.602425	-32.602425	0.16	-0.17
SEP	21	53634	0.05311	0.41996	-0.604919	-32.604919	0.00	0.00
SEP	26	53639	0.05678	0.41705	-0.607230	-32.607230	0.00	0.00
OCT	1	53644	0.05866	0.41689	-0.608996	-32.608996	0.00	0.00
OCT	6	53649	0.06326	0.41455	-0.611000	-32.611000	0.00	0.00
OCT	11	53654	0.06920	0.41166	-0.613220	-32.613220	0.00	0.00
OCT	16	53659	0.07500	0.40817	-0.615646	-32.615646	0.00	0.00
OCT	21	53664	0.08046	0.40431	-0.618233	-32.618233	0.00	0.00
OCT	26	53669	0.08557	0.40013	-0.620956	-32.620956	0.00	0.00
OCT	31	53674	0.09028	0.39567	-0.623764	-32.623764	0.00	0.00
NOV	5	53679	0.09461	0.39099	-0.626648	-32.626648	0.00	0.00
NOV	10	53684	0.09852	0.38610	-0.629547	-32.629547	0.00	0.00
NOV	15	53689	0.10202	0.38106	-0.632461	-32.632461	0.00	0.00
NOV	20	53694	0.10508	0.37589	-0.635346	-32.635346	0.00	0.00

NOV 25	53699	0.10770	0.37063	-0.638191	-32.638191	0.00	0.00
NOV 30	53704	0.10989	0.36531	-0.640991	-32.640991	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.

IERS, B 212 (2)

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	MJD	x	y	UT1-UTC	UT1-UT1R	D	dX	dY
(0 h UTC)	"	"	"	s	ms	ms	0.001"	0.001"
AUG 2	53584	-0.00119	0.42132	-0.603021	-0.377	-0.646	0.17	-0.10
AUG 3	53585	0.00086	0.42147	-0.602377	0.189	-0.638	0.23	0.06
AUG 4	53586	0.00308	0.42175	-0.601767	0.672	-0.566	0.30	0.12
AUG 5	53587	0.00494	0.42210	-0.601261	1.016	-0.405	0.38	-0.01
AUG 6	53588	0.00674	0.42238	-0.600963	1.184	-0.185	0.42	-0.21
AUG 7	53589	0.00875	0.42278	-0.600890	1.171	0.048	0.40	-0.28
AUG 8	53590	0.01114	0.42326	-0.601048	0.997	0.261	0.37	-0.21
AUG 9	53591	0.01387	0.42403	-0.601392	0.709	0.406	0.28	-0.12
AUG 10	53592	0.01637	0.42510	-0.601837	0.370	0.444	0.19	-0.10
AUG 11	53593	0.01840	0.42616	-0.602255	0.051	0.369	0.15	-0.12
AUG 12	53594	0.02013	0.42698	-0.602553	-0.175	0.212	0.21	-0.07
AUG 13	53595	0.02168	0.42761	-0.602660	-0.245	-0.007	0.31	-0.01
AUG 14	53596	0.02291	0.42820	-0.602534	-0.123	-0.237	0.37	-0.04
AUG 15	53597	0.02396	0.42872	-0.602199	0.185	-0.402	0.36	-0.14
AUG 16	53598	0.02502	0.42907	-0.601762	0.611	-0.447	0.31	-0.17
AUG 17	53599	0.02612	0.42917	-0.601353	1.030	-0.404	0.25	-0.05
AUG 18	53600	0.02733	0.42911	-0.601005	1.292	-0.244	0.23	0.01
AUG 19	53601	0.02858	0.42889	-0.600897	1.272	0.071	0.29	-0.10
AUG 20	53602	0.02995	0.42875	-0.601146	0.921	0.432	0.42	-0.26
AUG 21	53603	0.03143	0.42881	-0.601726	0.293	0.679	0.50	-0.20
AUG 22	53604	0.03282	0.42873	-0.602447	-0.471	0.707	0.42	0.00
AUG 23	53605	0.03423	0.42850	-0.603081	-1.198	0.550	0.25	0.01
AUG 24	53606	0.03568	0.42835	-0.603505	-1.735	0.299	0.17	-0.16
AUG 25	53607	0.03710	0.42816	-0.603661	-1.991	0.006	0.19	-0.28
AUG 26	53608	0.03837	0.42771	-0.603523	-1.952	-0.307	0.22	-0.17
AUG 27	53609	0.03952	0.42681	-0.603067	-1.659	-0.575	0.20	0.02
AUG 28	53610	0.04069	0.42588	-0.602400	-1.186	-0.761	0.20	0.07
AUG 29	53611	0.04153	0.42540	-0.601575	-0.620	-0.886	0.23	-0.01
AUG 30	53612	0.04188	0.42507	-0.600655	-0.045	-0.893	0.27	-0.06
AUG 31	53613	0.04199	0.42479	-0.599813	0.463	-0.770	0.29	0.01
SEP 1	53614	0.04213	0.42493	-0.599131	0.842	-0.580	0.30	0.07
SEP 2	53615	0.04221	0.42524	-0.598662	1.050	-0.323	0.31	-0.03
SEP 3	53616	0.04242	0.42508	-0.598486	1.073	-0.003	0.31	-0.28
SEP 4	53617	0.04292	0.42452	-0.598647	0.924	0.193	0.29	-0.48
SEP 5	53618	0.04373	0.42391	-0.598854	0.646	0.295	0.25	-0.49
SEP 6	53619	0.04482	0.42340	-0.599213	0.303	0.420	0.22	-0.36
SEP 7	53620	0.04602	0.42298	-0.599668	-0.029	0.474	0.18	-0.23
SEP 8	53621	0.04735	0.42267	-0.600136	-0.271	0.436	0.15	-0.19
SEP 9	53622	0.04860	0.42265	-0.600521	-0.359	0.298	0.16	-0.18
SEP 10	53623	0.04953	0.42284	-0.600724	-0.255	0.100	0.22	-0.16
SEP 11	53624	0.05019	0.42299	-0.600729	0.040	-0.087	0.30	-0.16
SEP 12	53625	0.05056	0.42288	-0.600577	0.473	-0.185	0.35	-0.16
SEP 13	53626	0.05048	0.42224	-0.600400	0.942	-0.126	0.31	-0.16
SEP 14	53627	0.05022	0.42135	-0.600373	1.313	0.087	0.18	-0.14
SEP 15	53628	0.05028	0.42097	-0.600613	1.451	0.383	0.10	-0.16
SEP 16	53629	0.05101	0.42102	-0.601156	1.270	0.743	0.16	-0.17
SEP 17	53630	0.05199	0.42123	-0.602083	0.770	1.112	0.00	0.00
SEP 18	53631	0.05257	0.42156	-0.603334	0.048	1.296	0.00	0.00
SEP 19	53632	0.05267	0.42149	-0.604614	-0.736	1.258	0.00	0.00
SEP 20	53633	0.05275	0.42081	-0.605795	-1.406	1.082	0.00	0.00
SEP 21	53634	0.05311	0.41996	-0.606745	-1.827	0.802	0.00	0.00
SEP 22	53635	0.05370	0.41920	-0.607393	-1.939	0.464	0.00	0.00
SEP 23	53636	0.05448	0.41861	-0.607688	-1.759	0.173	0.00	0.00
SEP 24	53637	0.05537	0.41805	-0.607768	-1.354	-0.004	0.00	0.00

SEP 25	53638	0.05624	0.41746	-0.607713	-0.817	-0.163	0.00	0.00
SEP 26	53639	0.05678	0.41705	-0.607471	-0.242	-0.216	0.00	0.00
SEP 27	53640	0.05712	0.41673	-0.607307	0.287	-0.133	0.00	0.00
SEP 28	53641	0.05796	0.41652	-0.607240	0.702	-0.003	0.00	0.00
SEP 29	53642	0.05853	0.41671	-0.607329	0.954	0.223	0.00	0.00

IERS, B 212 (3)

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

		Raw normal values					Uncertainties				
2005	MJD	x	y	UT1-UTC	dX	dY	x	y	UT1	dX	dY
(0 h UTC)		"	"	s	0.001"		0.001"	0.0001s	0.001"		
AUG 2	53584	-0.00119	0.42131	-0.603023	0.087	-.107	0.01	0.01	0.02	0.03	0.03
AUG 7	53589	0.00876	0.42278	-0.600885	0.384	-.271	0.02	0.02	0.02	0.03	0.03
AUG 12	53594	0.02011	0.42697	-0.602553	0.250	-.019	0.01	0.02	0.01	0.05	0.04
AUG 17	53599	0.02611	0.42915	-0.601346	0.245	-.048	0.02	0.02	0.01	0.03	0.03
AUG 22	53604	0.03282	0.42872	-0.602450	0.405	-.088	0.02	0.02	0.02	0.05	0.05
AUG 27	53609	0.03951	0.42681	-0.603070	0.209	0.137	0.02	0.02	0.02	0.03	0.03
SEP 1	53614	0.04212	0.42494	-0.599124	0.296	0.098	0.02	0.02	0.02	0.04	0.04
SEP 6	53619	0.04482	0.42340	-0.599204	0.248	-.325	0.01	0.02	0.02	0.06	0.06
SEP 11	53624	0.05020	0.42299	-0.600728	0.307	-.167	0.02	0.02	0.01	0.02	0.02
SEP 16	53629	0.05101	0.42101	-0.601147	0.159	-.179	0.01	0.01	0.02	0.02	0.02
SEP 21	53634	0.05311	0.41996	-0.606751	-	-	0.01	0.02	0.03	-	-
SEP 26	53639	0.05678	0.41706	-0.607479	-	-	0.05	0.05	0.07	-	-

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		
2005 MJD	s	(microrad/s)		
AUG 2	53584	-0.00007	72.921	15152
AUG 7	53589	-0.00006		15151
AUG 12	53594	0.00006		15142
AUG 17	53599	-0.00004		15150
AUG 22	53604	-0.00007		15153
AUG 27	53609	-0.00018		15162
SEP 1	53614	-0.00029		15171

5 - INFORMATION ON TIME SCALES

A leap second will be introduced in UTC on 31 December 2005. 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](ftp://hpiers.obspm.fr) or 145.238.100.28

IERS, B 212 (4)

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	0.10	0.10	0.03	-	-	-	11
53587.27 to 53626.20			0.20	0.17	0.08	-	-	-	
EOP(BKG)	3	R 4	0.10	0.09	0.04	-	-	-	13
53584.20 to 53626.20			0.21	0.18	0.09	-	-	-	
EOP(BKG)	3	R 2	-	-	0.13	-	-	-	51
53584.79 to 53639.79			-	-	0.20	-	-	-	
EOP(USNO)	5	R 1	-	-	0.14	-	-	-	53
53584.79 to 53639.79			-	-	0.17	-	-	-	
EOP(GSFC)	4	R 2	0.08	0.08	0.03	-	-	-	14
53584.20 to 53629.20			0.10	0.12	0.07	-	-	-	
EOP(GSFC)	4	R 1	-	-	0.14	-	-	-	50
53584.79 to 53639.79			-	-	0.16	-	-	-	
EOP(IAA)	5	R 1	0.07	0.07	0.03	-	0.13	0.05	14
53584.20 to 53629.20			0.18	0.19	0.12	-	0.06	0.08	
EOP(IAA)	3	R 3	-	-	0.12	-	-	-	49
53584.79 to 53639.79			-	-	0.21	-	-	-	
EOP(SPBU)	3	R 3	0.22	0.29	0.13	-	-	-	8
53587.27 to 53612.21			0.20	0.19	0.10	-	-	-	
EOP(SPBU)	2	R 1	-	-	0.13	-	-	-	48
53584.79 to 53638.33			-	-	0.21	-	-	-	
EOP(MAO)	3	R 1	0.09	0.09	0.03	-	0.16	0.06	13
53584.22 to 53626.21			0.30	0.17	0.08	-	0.28	0.11	
EOP(USNO)	5	R 1	0.08	0.08	0.03	-	-	-	14
53584.20 to 53629.20			0.07	0.10	0.09	-	-	-	
EOP(IVS)	0	R 1	0.09	0.09	0.04	-	-	-	12
53584.00 to 53622.00			0.17	0.18	0.07	-	-	-	
GPS									
EOP(CODE)	98	P 1	0.01	0.01	-	0.24	-	-	58
53584.50 to 53641.50			0.03	0.04	-	0.16	-	-	
EOP(EMR)	96	P 3	0.03	0.03	-	0.04	-	-	58
53584.50 to 53641.50			0.07	0.13	-	0.45	-	-	
EOP(ESOC)	96	P 1	0.01	0.02	-	0.06	-	-	58
53584.50 to 53641.50			0.05	0.08	-	0.36	-	-	
EOP(GFZ)	96	P 2	0.01	0.01	-	0.02	-	-	58
53584.50 to 53641.50			0.05	0.05	-	0.25	-	-	
EOP(IAA)	1	P 1	0.03	0.03	-	0.06	-	-	58
53584.50 to 53641.50			0.14	0.39	-	0.76	-	-	
EOP(JPL)	96	P 3	0.02	0.02	-	0.14	-	-	47
53584.50 to 53630.50			0.04	0.06	-	0.45	-	-	
EOP(NOAA)	96	P 1	0.00	0.01	-	0.02	-	-	58
53584.50 to 53641.50			0.09	0.10	-	0.28	-	-	
EOP(SIO)	96	P 1	0.06	0.06	-	0.15	-	-	58
53584.50 to 53641.50			0.06	0.05	-	0.38	-	-	
EOP(IGS F)	95	P 2	0.02	0.02	0.08	0.05	-	-	47
53584.50 to 53630.50			0.04	0.08	0.18	0.18	-	-	
EOP(IGS R)	96	P 2	0.03	0.04	0.19	0.06	-	-	58
53584.50 to 53641.50			0.08	0.05	0.53	0.18	-	-	
EOP(IERS)	97	P 1	0.03	0.04	0.21	0.14	-	-	58
53584.50 to 53641.50			0.02	0.02	0.22	0.17	-	-	
SLR									
EOP(ASI)	3	L 2	0.06	0.07	-	0.14	-	-	57

53584.50 to 53640.50	0.14	0.21	-	0.50	-	-	
EOP(DUT) 98 L 1	0.08	0.09	-	-	-	-	54
53584.00 to 53637.00	0.40	0.37	-	-	-	-	
EOP(IAA) 2 L 1	0.03	0.04	0.02	0.02	-	-	59
53584.00 to 53642.00	0.13	0.19	0.25	0.16	-	-	
EOP(MCC) 97 L 1	0.04	0.05	-	0.10	-	-	52
53584.00 to 53635.00	0.22	0.17	-	0.51	-	-	
EOP(ILRS) 5 L 1	0.06	0.07	-	0.15	-	-	54
53584.50 to 53637.50	0.29	0.18	-	0.49	-	-	
Bulletin A							
EOP(NEOS) 97 C 1	0.05	0.06	0.10	-	-	-	59
53584.00 to 53642.00	0.06	0.09	0.15	-	-	-	