BULLETIN B 207
(IAU 2000)
4 may 2005

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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

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 2005 (0h UTC)	MJD	x "	y "	UT1R-UTC s	UT1R-TAI s	dX 0.001"	dY 0.001"
Final Bulletin B values.							
MAR 5	53434	0.01518	0.21570	-0.552579	-32.552579	0.01	-0.44
MAR 10	53439	0.00490	0.21933	-0.558265	-32.558265	-0.09	-0.34
MAR 15	53444	-0.00364	0.22318	-0.562373	-32.562373	-0.07	-0.23
MAR 20	53449	-0.00977	0.22571	-0.565507	-32.565507	0.02	-0.50
MAR 25	53454	-0.01649	0.23267	-0.568749	-32.568749	-0.15	-0.35
MAR 30	53459	-0.02459	0.24035	-0.572427	-32.572427	-0.05	-0.29
APR 4	53464	-0.03343	0.24532	-0.575439	-32.575439	-0.06	-0.23
Preliminary extension, to be updated weekly in Bulletin A and monthly in Bulletin B.							
APR 9	53469	-0.03826	0.25232	-0.578580	-32.578580	-0.10	-0.23
APR 14	53474	-0.04611	0.26032	-0.581880	-32.581880	-0.09	-0.29
APR 19	53479	-0.05246	0.27154	-0.586440	-32.586440	0.00	0.00
APR 24	53484	-0.05760	0.28305	-0.591328	-32.591328	0.00	0.00
APR 29	53489	-0.05779	0.29223	-0.596263	-32.596263	0.00	0.00
MAY 4	53494	-0.05949	0.30380	-0.600472	-32.600472	0.00	0.00
MAY 9	53499	-0.06173	0.31265	-0.603939	-32.603939	0.00	0.00
MAY 14	53504	-0.06451	0.32090	-0.606777	-32.606777	0.00	0.00
MAY 19	53509	-0.06695	0.32908	-0.609035	-32.609035	0.00	0.00
MAY 24	53514	-0.06881	0.33730	-0.610775	-32.610775	0.00	0.00
MAY 29	53519	-0.07004	0.34555	-0.612011	-32.612011	0.00	0.00
JUN 3	53524	-0.07063	0.35379	-0.612781	-32.612781	0.00	0.00
JUN 8	53529	-0.07057	0.36198	-0.613125	-32.613125	0.00	0.00
JUN 13	53534	-0.06987	0.37008	-0.613064	-32.613064	0.00	0.00
JUN 18	53539	-0.06855	0.37806	-0.612644	-32.612644	0.00	0.00
JUN 23	53544	-0.06661	0.38586	-0.611889	-32.611889	0.00	0.00

JUN	28	53549	-0.06407	0.39347	-0.610859	-32.610859	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 2003 IERS Annual Report.

2005 (0 h UTC)		MJD	x "	y "	UT1-UTC s	UT1-UT1R ms	D ms	dX 0.001"	dY 0.001"
MAR	5	53434	0.01518	0.21570	-0.552211	0.369	0.969	0.01	-0.44
MAR	6	53435	0.01283	0.21651	-0.553219	0.802	0.885	0.03	-0.31
MAR	7	53436	0.01057	0.21689	-0.554024	1.101	0.986	0.03	-0.22
MAR	8	53437	0.00892	0.21765	-0.555221	1.150	1.241	0.00	-0.24
MAR	9	53438	0.00672	0.21855	-0.556508	0.895	1.348	-0.04	-0.32
MAR	10	53439	0.00490	0.21933	-0.557890	0.375	1.461	-0.09	-0.34
MAR	11	53440	0.00241	0.22026	-0.559383	-0.295	1.532	-0.16	-0.24
MAR	12	53441	0.00069	0.22102	-0.560903	-0.962	1.479	-0.22	-0.17
MAR	13	53442	-0.00152	0.22206	-0.562301	-1.484	1.248	-0.22	-0.19
MAR	14	53443	-0.00248	0.22223	-0.563379	-1.767	0.927	-0.15	-0.24
MAR	15	53444	-0.00364	0.22318	-0.564154	-1.781	0.595	-0.07	-0.23
MAR	16	53445	-0.00556	0.22316	-0.564583	-1.547	0.292	0.01	-0.16
MAR	17	53446	-0.00675	0.22358	-0.564760	-1.122	0.100	0.07	-0.19
MAR	18	53447	-0.00800	0.22384	-0.564810	-0.579	0.026	0.10	-0.32
MAR	19	53448	-0.00889	0.22469	-0.564840	0.001	0.067	0.09	-0.47
MAR	20	53449	-0.00977	0.22571	-0.564969	0.538	0.116	0.02	-0.50
MAR	21	53450	-0.01065	0.22676	-0.565093	0.962	0.230	-0.05	-0.39
MAR	22	53451	-0.01175	0.22811	-0.565443	1.218	0.459	-0.07	-0.29
MAR	23	53452	-0.01314	0.22993	-0.566018	1.276	0.719	-0.07	-0.26
MAR	24	53453	-0.01526	0.23185	-0.566877	1.131	0.966	-0.09	-0.30
MAR	25	53454	-0.01649	0.23267	-0.567934	0.815	1.126	-0.15	-0.35
MAR	26	53455	-0.01772	0.23462	-0.569103	0.391	1.192	-0.20	-0.34
MAR	27	53456	-0.01921	0.23575	-0.570284	-0.051	1.157	-0.23	-0.29
MAR	28	53457	-0.02073	0.23801	-0.571384	-0.410	1.030	-0.20	-0.26
MAR	29	53458	-0.02259	0.23877	-0.572318	-0.596	0.806	-0.13	-0.28
MAR	30	53459	-0.02459	0.24035	-0.572987	-0.560	0.514	-0.05	-0.29
MAR	31	53460	-0.02684	0.24081	-0.573358	-0.304	0.255	0.03	-0.29
APR	1	53461	-0.02863	0.24274	-0.573526	0.109	0.100	0.06	-0.27
APR	2	53462	-0.03065	0.24355	-0.573600	0.569	0.134	0.04	-0.24
APR	3	53463	-0.03230	0.24499	-0.573839	0.945	0.344	-0.02	-0.22
APR	4	53464	-0.03343	0.24532	-0.574323	1.117	0.614	-0.06	-0.23
APR	5	53465	-0.03436	0.24601	-0.575080	1.012	0.872	-0.04	-0.26
APR	6	53466	-0.03500	0.24609	-0.576054	0.631	1.091	0.00	-0.28
APR	7	53467	-0.03546	0.24803	-0.577226	0.048	1.257	0.02	-0.27
APR	8	53468	-0.03669	0.24980	-0.578519	-0.605	1.293	-0.02	-0.23
APR	9	53469	-0.03826	0.25232	-0.579765	-1.185	1.179	-0.10	-0.23
APR	10	53470	-0.04075	0.25367	-0.580845	-1.573	0.929	-0.15	-0.27
APR	11	53471	-0.04238	0.25521	-0.581611	-1.703	0.608	-0.15	-0.31
APR	12	53472	-0.04422	0.25663	-0.582068	-1.571	0.352	-0.12	-0.32
APR	13	53473	-0.04532	0.25847	-0.582336	-1.218	0.250	-0.09	-0.31
APR	14	53474	-0.04611	0.26032	-0.582594	-0.714	0.238	-0.09	-0.29
APR	15	53475	-0.04664	0.26215	-0.582841	-0.142	0.276	-0.13	-0.22
APR	16	53476	-0.04779	0.26463	-0.583172	0.414	0.405	0.00	0.00
APR	17	53477	-0.04930	0.26704	-0.583674	0.880	0.559	0.00	0.00
APR	18	53478	-0.05090	0.26929	-0.584307	1.196	0.717	0.00	0.00
APR	19	53479	-0.05246	0.27154	-0.585117	1.323	0.927	0.00	0.00
APR	20	53480	-0.05375	0.27398	-0.586160	1.248	1.144	0.00	0.00
APR	21	53481	-0.05496	0.27618	-0.587394	0.985	1.303	0.00	0.00
APR	22	53482	-0.05566	0.27836	-0.588745	0.581	1.404	0.00	0.00
APR	23	53483	-0.05681	0.28069	-0.590171	0.115	1.465	0.00	0.00
APR	24	53484	-0.05760	0.28305	-0.591639	-0.312	1.399	0.00	0.00
APR	25	53485	-0.05827	0.28499	-0.592937	-0.595	1.211	0.00	0.00
APR	26	53486	-0.05881	0.28660	-0.594045	-0.659	0.983	0.00	0.00
APR	27	53487	-0.05865	0.28838	-0.594907	-0.487	0.725	0.00	0.00
APR	28	53488	-0.05847	0.29018	-0.595522	-0.125	0.496	0.00	0.00

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

2005 (0 h UTC)	MJD	x "	y "	UT1-UTC s	dX 0.001"	dY 0.001"	x 0.001"	y 0.001"	UT1 0.0001s	dX 0.001"	dY 0.001"
		Raw normal values					Uncertainties				
MAR 5	53434	0.01519	0.21567	-0.552206	0.027	-.376	0.01	0.02	0.01	0.04	0.04
MAR 10	53439	0.00489	0.21933	-0.557890	-.077	-.362	0.01	0.01	0.01	0.02	0.02
MAR 15	53444	-0.00363	0.22319	-0.564156	-.079	-.274	0.02	0.02	0.02	0.03	0.04
MAR 20	53449	-0.00977	0.22569	-0.564969	0.018	-.529	0.01	0.01	0.01	0.02	0.02
MAR 25	53454	-0.01650	0.23268	-0.567934	-.112	-.288	0.01	0.02	0.02	0.04	0.04
MAR 30	53459	-0.02460	0.24035	-0.572988	-.024	-.312	0.02	0.02	0.02	0.03	0.03
APR 4	53464	-0.03342	0.24532	-0.574320	-.068	-.241	0.02	0.02	0.02	0.04	0.04
APR 9	53469	-0.03826	0.25233	-0.579762	-.078	-.248	0.02	0.03	0.02	0.05	0.05
APR 14	53474	-0.04609	0.26030	-0.582593	-.027	-.301	0.02	0.02	0.01	0.04	0.04
APR 19	53479	-0.05246	0.27154	-0.585116	-	-	0.02	0.01	0.02	-	-
APR 24	53484	-0.05760	0.28305	-0.591640	-	-	0.02	0.02	0.02	-	-

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) 2005	MJD	DR s	OmegaR (microrad/s)	
MAR 5	53434	0.00143	72.921	15026
MAR 10	53439	0.00085		15075
MAR 15	53444	0.00072		15086
MAR 20	53449	0.00061		15095
MAR 25	53454	0.00075		15084
MAR 30	53459	0.00067		15090
APR 4	53464	0.00066		15091

5 - INFORMATION ON TIME SCALES
No leap second was introduced in UTC on 31 December 2004.
No leap second will be introduced in UTC on 30 June 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 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 / Periods covered	Mean formal uncertainty / Weighted RMS agreement with Bulletin B						
	x	y	UT	D	dX	dY	Data Number

VLBI							
EOP(AUS) 1 R 1	0.08	0.08	0.03	-	-	-	12
53437.21 to 53475.27	0.26	0.25	0.06	-	-	-	
EOP(BKG) 3 R 4	0.11	0.10	0.04	-	-	-	12
53437.20 to 53475.27	0.30	0.31	0.08	-	-	-	
EOP(BKG) 3 R 2	-	-	0.09	-	-	-	43
53434.33 to 53485.79	-	-	0.20	-	-	-	
EOP(USNO) 5 R 1	-	-	0.09	-	-	-	44
53434.33 to 53486.79	-	-	0.15	-	-	-	
EOP(GSFC) 4 R 2	0.06	0.06	0.02	-	-	-	12
53437.20 to 53475.27	0.16	0.16	0.13	-	-	-	
EOP(GSFC) 4 R 1	-	-	0.09	-	-	-	45
53434.33 to 53487.79	-	-	0.14	-	-	-	
EOP(IAA) 5 R 1	0.07	0.07	0.03	-	0.12	0.05	12
53437.21 to 53475.27	0.24	0.25	0.08	-	0.19	0.07	
EOP(IAA) 3 R 3	-	-	0.09	-	-	-	43
53434.33 to 53486.79	-	-	0.17	-	-	-	
EOP(SPBU) 3 R 3	0.24	0.28	0.15	-	-	-	12
53437.21 to 53475.27	0.15	0.17	0.08	-	-	-	
EOP(SPBU) 2 R 1	-	-	0.11	-	-	-	37
53436.79 to 53485.79	-	-	0.21	-	-	-	
EOP(MAO) 3 R 1	0.09	0.09	0.04	-	0.16	0.06	12
53437.27 to 53475.28	0.39	0.23	0.08	-	0.28	0.12	
EOP(USNO) 5 R 1	0.07	0.07	0.03	-	-	-	10
53437.20 to 53468.27	0.12	0.18	0.04	-	-	-	
EOP(IVS) 0 R 1	0.09	0.08	0.03	-	-	-	12
53437.00 to 53475.00	0.25	0.20	0.08	-	-	-	
GPS							
EOP(CODE) 98 P 1	0.02	0.02	-	0.21	-	-	54
53434.50 to 53487.50	0.03	0.05	-	0.30	-	-	
EOP(EMR) 96 P 3	0.03	0.03	-	0.04	-	-	54
53434.50 to 53487.50	0.05	0.14	-	0.53	-	-	
EOP(ESOC) 96 P 1	0.01	0.02	-	0.08	-	-	54
53434.50 to 53487.50	0.06	0.10	-	0.55	-	-	
EOP(GFZ) 96 P 2	0.01	0.01	-	0.01	-	-	54
53434.50 to 53487.50	0.04	0.04	-	0.34	-	-	
EOP(IAA) 1 P 1	0.03	0.03	-	0.06	-	-	54
53434.50 to 53487.50	0.16	0.35	-	0.52	-	-	
EOP(JPL) 96 P 3	0.02	0.03	-	0.15	-	-	50
53434.50 to 53483.50	0.04	0.05	-	0.29	-	-	
EOP(NOAA) 96 P 1	0.01	0.01	-	0.02	-	-	50
53434.50 to 53483.50	0.10	0.18	-	0.32	-	-	
EOP(SIO) 96 P 1	0.05	0.05	-	0.13	-	-	54
53434.50 to 53487.50	0.05	0.07	-	0.25	-	-	
EOP(IGS F)95 P 2	0.02	0.03	0.07	0.05	-	-	43
53434.50 to 53476.50	0.04	0.09	0.26	0.20	-	-	
EOP(IGS R)96 P 2	0.03	0.04	0.16	0.07	-	-	54
53434.50 to 53487.50	0.07	0.07	0.69	0.18	-	-	
EOP(IERS) 97 P 1	0.03	0.03	0.16	0.11	-	-	54
53434.50 to 53487.50	0.01	0.03	0.32	0.20	-	-	
SLR							
EOP(ASI) 3 L 2	0.08	0.08	-	0.17	-	-	54
53434.50 to 53487.50	0.25	0.33	-	0.77	-	-	
EOP(DUT) 98 L 1	0.10	0.11	-	-	-	-	50
53434.00 to 53483.00	0.49	0.33	-	-	-	-	
EOP(IAA) 2 L 1	0.04	0.04	0.03	0.03	-	-	55

53434.00 to 53488.00	0.21	0.26	0.37	0.19	-	-	
EOP(MCC) 97 L 1	0.05	0.06	-	0.10	-	-	55
53434.00 to 53488.00	0.14	0.22	-	0.54	-	-	
EOP(ILRS) 5 L 1	0.13	0.13	-	0.27	-	-	50
53434.50 to 53483.50	0.30	0.26	-	0.82	-	-	
Bulletin A							
EOP(NEOS) 97 C 1	0.06	0.07	0.08	-	-	-	55
53434.00 to 53488.00	0.10	0.16	0.28	-	-	-	