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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 until December 2004.

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 which will be available in the course of March 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 2003 (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.

JAN	5	52644	-.10068	.19741	-.290995	-32.290995	.08	.13
JAN	10	52649	-.11317	.20788	-.294347	-32.294347	.01	-.05
JAN	15	52654	-.12157	.21912	-.298193	-32.298193	-.08	-.13
JAN	20	52659	-.12884	.23101	-.301309	-32.301309	-.10	-.01
JAN	25	52664	-.13512	.24481	-.303049	-32.303049	.06	.05
JAN	30	52669	-.13938	.25824	-.304821	-32.304821	-.07	-.08
FEB	4	52674	-.14526	.27244	-.306449	-32.306449	-.01	.14

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

FEB	9	52679	-.15126	.28592	-.309222	-32.309222	-.04	.06
FEB	14	52684	-.15617	.29950	-.312377	-32.312377	.02	-.13
FEB	19	52689	-.15489	.31360	-.315526	-32.315526	-.09	-.47
FEB	24	52694	-.15498	.33023	-.318572	-32.318572	-.44	.57
MAR	1	52699	-.15372	.34472	-.321517	-32.321517	.00	.00
MAR	6	52704	-.15040	.35896	-.324654	-32.324654	.00	.00
MAR	11	52709	-.14621	.37365	-.328690	-32.328690	.00	.00
MAR	16	52714	-.14069	.38804	-.333038	-32.333038	.00	.00
MAR	21	52719	-.13397	.40199	-.337532	-32.337532	.00	.00
MAR	26	52724	-.12608	.41542	-.342102	-32.342102	.00	.00
MAR	31	52729	-.11709	.42823	-.346657	-32.346657	.00	.00
APR	5	52734	-.10708	.44036	-.351196	-32.351196	.00	.00
APR	10	52739	-.09610	.45173	-.355637	-32.355637	.00	.00
APR	15	52744	-.08424	.46228	-.359947	-32.359947	.00	.00
APR	20	52749	-.07158	.47194	-.364098	-32.364098	.00	.00
APR	25	52754	-.05820	.48067	-.368034	-32.368034	.00	.00

APR 30 52759 -.04418 .48841 -.371750 -32.371750 .00 .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 2001 IERS Annual Report.

2003		MJD	x	y	UT1-UTC	UT1-UT1R	D	dX	dY
(0 h UTC)			"	"	s	ms	ms	0.001"	0.001"
JAN	5	52644	-.10068	.19741	-.290846	.149	.435	.08	.13
JAN	6	52645	-.10354	.19931	-.291349	.282	.579	.06	.11
JAN	7	52646	-.10596	.20129	-.292018	.273	.762	.03	.02
JAN	8	52647	-.10852	.20338	-.292861	.146	.868	.01	-.10
JAN	9	52648	-.11106	.20547	-.293738	-.056	.893	.01	-.13
JAN	10	52649	-.11317	.20788	-.294629	-.282	.916	.01	-.05
JAN	11	52650	-.11524	.21036	-.295552	-.478	.917	.00	.10
JAN	12	52651	-.11726	.21261	-.296448	-.597	.852	-.02	.13
JAN	13	52652	-.11900	.21473	-.297247	-.601	.729	-.05	.05
JAN	14	52653	-.12031	.21689	-.297903	-.473	.576	-.07	-.05
JAN	15	52654	-.12157	.21912	-.298402	-.209	.417	-.08	-.13
JAN	16	52655	-.12287	.22153	-.298750	.166	.285	-.06	-.11
JAN	17	52656	-.12428	.22406	-.298993	.602	.215	-.05	-.05
JAN	18	52657	-.12598	.22653	-.299210	1.024	.222	-.05	.01
JAN	19	52658	-.12758	.22879	-.299469	1.340	.305	-.08	.02
JAN	20	52659	-.12884	.23101	-.299844	1.465	.462	-.10	-.01
JAN	21	52660	-.12991	.23342	-.300401	1.350	.661	-.08	-.02
JAN	22	52661	-.13097	.23635	-.301154	.996	.820	-.03	.03
JAN	23	52662	-.13214	.23961	-.302013	.464	.876	.03	.07
JAN	24	52663	-.13354	.24244	-.302867	-.142	.889	.07	.08
JAN	25	52664	-.13512	.24481	-.303750	-.701	.845	.06	.05
JAN	26	52665	-.13678	.24702	-.304526	-1.104	.661	.02	.02
JAN	27	52666	-.13809	.24945	-.305056	-1.282	.397	-.02	-.01
JAN	28	52667	-.13888	.25221	-.305325	-1.219	.168	-.06	-.01
JAN	29	52668	-.13928	.25517	-.305414	-.956	.020	-.08	-.05
JAN	30	52669	-.13938	.25824	-.305397	-.576	-.043	-.07	-.08
JAN	31	52670	-.13987	.26129	-.305362	-.179	-.025	-.04	-.06
FEB	1	52671	-.14113	.26405	-.305373	.144	.037	-.01	.02
FEB	2	52672	-.14257	.26675	-.305449	.335	.154	.02	.12
FEB	3	52673	-.14409	.26967	-.305680	.372	.369	.02	.16
FEB	4	52674	-.14526	.27244	-.306176	.273	.625	-.01	.14
FEB	5	52675	-.14615	.27529	-.306914	.078	.760	.00	.09
FEB	6	52676	-.14728	.27799	-.307676	-.157	.766	.04	.08
FEB	7	52677	-.14837	.28045	-.308427	-.375	.747	.07	.08
FEB	8	52678	-.14961	.28318	-.309153	-.523	.683	.03	.09
FEB	9	52679	-.15126	.28592	-.309782	-.560	.561	-.04	.06
FEB	10	52680	-.15291	.28858	-.310270	-.462	.407	-.08	.00
FEB	11	52681	-.15427	.29138	-.310599	-.227	.265	-.08	-.01
FEB	12	52682	-.15530	.29412	-.310809	.129	.205	-.05	-.16
FEB	13	52683	-.15590	.29679	-.311027	.563	.266	-.02	-.23
FEB	14	52684	-.15617	.29950	-.311369	1.008	.358	.02	-.13
FEB	15	52685	-.15633	.30211	-.311776	1.376	.417	.00	.00
FEB	16	52686	-.15628	.30455	-.312234	1.570	.541	.00	.00
FEB	17	52687	-.15578	.30707	-.312877	1.514	.768	.00	.00
FEB	18	52688	-.15527	.31005	-.313768	1.184	1.025	.00	.00
FEB	19	52689	-.15489	.31360	-.314899	.627	1.229	.00	.00
FEB	20	52690	-.15471	.31755	-.316182	-.047	1.296	.00	.00
FEB	21	52691	-.15507	.32137	-.317442	-.697	1.202	.00	.00
FEB	22	52692	-.15550	.32453	-.318548	-1.191	.992	.00	.00
FEB	23	52693	-.15541	.32736	-.319406	-1.441	.724	.00	.00
FEB	24	52694	-.15498	.33023	-.320000	-1.428	.475	.00	.00
FEB	25	52695	-.15461	.33315	-.320390	-1.188	.291	.00	.00
FEB	26	52696	-.15455	.33619	-.320642	-.805	.201	.00	.00
FEB	27	52697	-.15446	.33914	-.320825	-.380	.228	.00	.00

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

		Raw normal values					Uncertainties				
2003	MJD	x	y	UT1-UTC	dX	dY	x	y	UT1	dX	dY
(0 h UTC)		"	"	s	0.001"		0.001"	0.0001s	0.001"		
JAN 5	52644	-.10067	.19742	-.290864	.073	.113	.01	.02	.02	.02	.02
JAN 10	52649	-.11319	.20786	-.294630	.053	-.136	.01	.02	.02	.03	.03
JAN 15	52654	-.12158	.21912	-.298401	-.090	-.082	.02	.02	.02	.02	.02
JAN 20	52659	-.12883	.23100	-.299841	-.125	.077	.02	.02	.03	.04	.04
JAN 25	52664	-.13513	.24481	-.303751	.116	.105	.02	.02	.03	.05	.05
JAN 30	52669	-.13937	.25824	-.305398	-.070	-.095	.02	.02	.02	.02	.02
FEB 4	52674	-.14526	.27244	-.306179	-.019	.088	.02	.03	.03	.04	.03
FEB 9	52679	-.15126	.28592	-.309782	-.030	.071	.01	.02	.02	.02	.02
FEB 14	52684	-.15617	.29950	-.311368	.020	-.145	.01	.02	.04	.03	.03
FEB 19	52689	-.15489	.31360	-.314899	-	-	.02	.02	.13	-	-
FEB 24	52694	-.15497	.33024	-.319977	-	-	.02	.03	.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)	DR	OmegaR		
2003 MJD	s	(microrad/s)		
JAN 5	52644	.00065	72.921	15092
JAN 10	52649	.00070		15088
JAN 15	52654	.00075		15084
JAN 20	52659	.00048		15107
JAN 25	52664	.00035		15117
JAN 30	52669	.00037		15116
FEB 4	52674	.00047		15107

5 - INFORMATION ON TIME SCALES

No leap second was introduced in UTC on 31 December 2002.
 No leap second will be introduced in UTC on 30 June 2003.
 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

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

EOP(AUS) 1 R 01	.19	.23	.13	-	-	-	11
52646.21 to 52684.27	.23	.55	.10	-	-	-	
EOP(BKG) 3 R 01	.12	.11	.04	-	-	-	12
52646.00 to 52684.00	.17	.11	.06	-	-	-	
EOP(BKG) 1 R 02	-	-	.22	-	-	-	28
52645.79 to 52695.79	-	-	.18	-	-	-	
EOP(GSFC) 3 R 02	.07	.06	.02	-	-	-	12
52646.20 to 52684.27	.11	.07	.02	-	-	-	
EOP(GSFC) 3 R 01	-	-	.24	-	-	-	29
52645.79 to 52696.79	-	-	.15	-	-	-	
EOP(IAA) 2 R 01	.07	.07	.03	-	-	-	12
52646.21 to 52684.27	.23	.12	.06	-	-	-	
EOP(IAA) 2 R 02	-	-	.19	-	-	-	20
52645.79 to 52680.80	-	-	.08	-	-	-	
EOP(SPBU) 1 R 02	.11	.09	.04	-	-	-	8
52646.21 to 52674.21	1.31	.76	.35	-	-	-	
EOP(SPBU) 2 R 01	-	-	.24	-	-	-	26
52645.79 to 52689.79	-	-	.09	-	-	-	
EOP(IVS) 0 R 01	.12	.11	.04	-	-	-	6
52646.00 to 52663.00	.10	.05	.04	-	-	-	
GPS							
EOP(CODE) 98 P 01	.01	.01	-	.28	-	-	49
52644.50 to 52692.50	.04	.05	-	.31	-	-	
EOP(EMR) 96 P 03	.03	.04	-	.05	-	-	42
52644.50 to 52685.50	.12	.07	-	.30	-	-	
EOP(ESOC) 96 P 01	.02	.02	-	.03	-	-	45
52644.50 to 52688.50	.18	.15	-	.28	-	-	
EOP(GFZ) 96 P 02	.01	.01	-	.01	-	-	53
52644.50 to 52696.50	.07	.09	-	.32	-	-	
EOP(IAA) 1 P 01	.03	.03	-	.06	-	-	53
52644.50 to 52696.50	.23	.17	-	.49	-	-	
EOP(JPL) 96 P 03	.03	.03	-	.15	-	-	42
52644.50 to 52685.50	.07	.07	-	.34	-	-	
EOP(NOAA) 96 P 01	.02	.02	-	.10	-	-	47
52644.50 to 52690.50	.18	.24	-	.66	-	-	
EOP(SIO) 96 P 01	.06	.06	-	.13	-	-	49
52644.50 to 52692.50	.19	.07	-	.45	-	-	
EOP(IGS F)95 P 02	.03	.03	.10	.07	-	-	42
52644.50 to 52685.50	.04	.05	.34	.22	-	-	
EOP(IGS R)96 P 02	.05	.05	.23	.08	-	-	53
52644.50 to 52696.50	.08	.11	.57	.27	-	-	
EOP(IERS) 97 P 01	.04	.06	.21	.14	-	-	53
52644.50 to 52696.50	.03	.03	.55	.13	-	-	
SLR							
EOP(CGS) 97 L 02	.20	.23	.23	-	-	-	52
52644.00 to 52695.00	.60	.51	1.22	-	-	-	
EOP(CSR) 95 L 01	.28	.28	.23	-	-	-	17
52647.20 to 52694.89	.47	.41	1.45	-	-	-	
EOP(DUT) 98 L 01	.06	.06	-	-	-	-	16
52644.00 to 52689.00	.70	.61	-	-	-	-	
EOP(IAA) 2 L 01	.03	.03	.02	.02	-	-	54
52644.00 to 52697.00	.18	.18	.25	.14	-	-	
EOP(MCC) 97 L 01	.05	.05	-	.06	-	-	47
52644.00 to 52690.00	.15	.13	-	.56	-	-	
Bulletin A							
EOP(NEOS) 97 C 01	.05	.06	.09	-	-	-	54

52644.00 to 52697.00

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