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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 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 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 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.

SEP 2	52884	.26561	.39436	-.351290	-32.351290	.22	.15
SEP 7	52889	.26512	.37741	-.351900	-32.351900	.26	-.29
SEP 12	52894	.26456	.36126	-.352176	-32.352176	.06	-.25
SEP 17	52899	.26409	.34590	-.352805	-32.352805	.00	-.25
SEP 22	52904	.26261	.32959	-.353994	-32.353994	.24	-.20
SEP 27	52909	.25965	.31397	-.355225	-32.355225	.13	-.33
OCT 2	52914	.25738	.30139	-.356612	-32.356612	-.03	-.42

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

OCT 7	52919	.25096	.28737	-.358838	-32.358838	.21	.04
OCT 12	52924	.24209	.27364	-.361006	-32.361006	.09	-.32
OCT 17	52929	.23185	.25797	-.363195	-32.363195	.15	-.35
OCT 22	52934	.22195	.24472	-.366003	-32.366003	.00	.00
OCT 27	52939	.21717	.23374	-.368798	-32.368798	.00	.00
NOV 1	52944	.20946	.22320	-.370358	-32.370358	.00	.00
NOV 6	52949	.20040	.21403	-.372921	-32.372921	.00	.00
NOV 11	52954	.18965	.20555	-.375897	-32.375897	.00	.00
NOV 16	52959	.17754	.19782	-.379078	-32.379078	.00	.00
NOV 21	52964	.16460	.19097	-.382336	-32.382336	.00	.00
NOV 26	52969	.15101	.18504	-.385586	-32.385586	.00	.00
DEC 1	52974	.13695	.18005	-.388805	-32.388805	.00	.00
DEC 6	52979	.12255	.17603	-.391979	-32.391979	.00	.00
DEC 11	52984	.10793	.17301	-.395077	-32.395077	.00	.00
DEC 16	52989	.09319	.17097	-.398113	-32.398113	.00	.00
DEC 21	52994	.07842	.16993	-.401089	-32.401089	.00	.00

DEC 26	52999	.06372	.16988	-.404003	-32.404003	.00	.00
DEC 31	53004	.04918	.17080	-.406872	-32.406872	.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 2002 IERS Annual Report.

2003		MJD	x	y	UT1-UTC	UT1-UT1R	D	dX	dY
(0 h UTC)		"	"	"	s	ms	ms	0.001"	0.001"
SEP	2	52884	.26561	.39436	-.352422	-1.132	.337	.22	.15
SEP	3	52885	.26554	.39119	-.352634	-1.212	.083	.22	-.01
SEP	4	52886	.26549	.38791	-.352599	-1.043	-.151	.21	-.14
SEP	5	52887	.26532	.38443	-.352363	-.697	-.278	.23	-.24
SEP	6	52888	.26519	.38084	-.352080	-.281	-.296	.26	-.29
SEP	7	52889	.26512	.37741	-.351807	.093	-.257	.26	-.29
SEP	8	52890	.26496	.37419	-.351590	.336	-.127	.23	-.24
SEP	9	52891	.26478	.37111	-.351560	.400	.088	.19	-.19
SEP	10	52892	.26464	.36782	-.351759	.285	.265	.15	-.21
SEP	11	52893	.26474	.36453	-.352071	.033	.364	.11	-.26
SEP	12	52894	.26456	.36126	-.352462	-.286	.401	.06	-.25
SEP	13	52895	.26430	.35791	-.352847	-.597	.352	.04	-.17
SEP	14	52896	.26428	.35474	-.353144	-.829	.261	.04	-.05
SEP	15	52897	.26432	.35174	-.353355	-.928	.160	.04	.01
SEP	16	52898	.26423	.34880	-.353458	-.866	.042	.01	-.08
SEP	17	52899	.26409	.34590	-.353442	-.637	-.072	.00	-.25
SEP	18	52900	.26401	.34292	-.353325	-.263	-.185	.07	-.36
SEP	19	52901	.26376	.33977	-.353090	.214	-.267	.20	-.34
SEP	20	52902	.26310	.33640	-.352815	.734	-.277	.30	-.24
SEP	21	52903	.26257	.33280	-.352561	1.222	-.223	.30	-.17
SEP	22	52904	.26261	.32959	-.352397	1.598	-.059	.24	-.20
SEP	23	52905	.26255	.32688	-.352469	1.776	.214	.22	-.27
SEP	24	52906	.26193	.32405	-.352841	1.693	.487	.24	-.33
SEP	25	52907	.26098	.32086	-.353438	1.331	.720	.24	-.38
SEP	26	52908	.26012	.31731	-.354252	.737	.903	.19	-.40
SEP	27	52909	.25965	.31397	-.355196	.029	.949	.13	-.33
SEP	28	52910	.25943	.31105	-.356097	-.640	.825	.07	-.16
SEP	29	52911	.25927	.30839	-.356804	-1.123	.595	.02	-.05
SEP	30	52912	.25918	.30616	-.357270	-1.329	.346	-.03	-.12
OCT	1	52913	.25853	.30400	-.357506	-1.249	.128	-.06	-.30
OCT	2	52914	.25738	.30139	-.357558	-.946	-.009	-.03	-.42
OCT	3	52915	.25625	.29869	-.357530	-.533	-.008	.05	-.39
OCT	4	52916	.25499	.29615	-.357580	-.130	.082	.14	-.27
OCT	5	52917	.25363	.29345	-.357721	.163	.222	.20	-.15
OCT	6	52918	.25228	.29042	-.358035	.291	.441	.22	-.03
OCT	7	52919	.25096	.28737	-.358599	.239	.655	.21	.04
OCT	8	52920	.24960	.28463	-.359329	.039	.740	.19	.00
OCT	9	52921	.24812	.28200	-.360056	-.252	.726	.18	-.16
OCT	10	52922	.24643	.27921	-.360756	-.563	.694	.15	-.36
OCT	11	52923	.24442	.27643	-.361420	-.819	.614	.12	-.43
OCT	12	52924	.24209	.27364	-.361967	-.961	.474	.09	-.32
OCT	13	52925	.23983	.27068	-.362358	-.946	.315	.08	-.17
OCT	14	52926	.23778	.26748	-.362596	-.761	.163	.05	-.15
OCT	15	52927	.23586	.26418	-.362694	-.416	.041	.02	-.29
OCT	16	52928	.23388	.26104	-.362694	.051	-.051	.06	-.39
OCT	17	52929	.23185	.25797	-.362612	.583	-.092	.15	-.35
OCT	18	52930	.22984	.25498	-.362536	1.111	-.016	.00	.00
OCT	19	52931	.22796	.25247	-.362606	1.559	.174	.00	.00
OCT	20	52932	.22602	.25006	-.362909	1.848	.422	.00	.00
OCT	21	52933	.22401	.24739	-.363470	1.905	.700	.00	.00
OCT	22	52934	.22195	.24472	-.364317	1.686	.989	.00	.00
OCT	23	52935	.22030	.24221	-.365434	1.198	1.222	.00	.00
OCT	24	52936	.21925	.23992	-.366723	.519	1.326	.00	.00
OCT	25	52937	.21863	.23778	-.368032	-.213	1.255	.00	.00

OCT 26	52938	.21811	.23572	-.369180	-.835	1.006	.00	.00
OCT 27	52939	.21717	.23374	-.370010	-1.213	.647	.00	.00
OCT 28	52940	.21559	.23161	-.370462	-1.286	.281	.00	.00
OCT 29	52941	.21391	.22929	-.370603	-1.089	.026	.00	.00
OCT 30	52942	.21254	.22702	-.370568	-.727	-.019	.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"		
SEP 2	52884	.26561	.39436	-.352418	.252	.122	.01	.02	.01	.02	.02
SEP 7	52889	.26513	.37741	-.351805	.270	-.289	.01	.02	.01	.02	.02
SEP 12	52894	.26455	.36126	-.352461	.086	-.256	.02	.02	.02	.02	.02
SEP 17	52899	.26408	.34591	-.353443	-.009	-.254	.01	.01	.02	.02	.02
SEP 22	52904	.26261	.32959	-.352396	.256	-.261	.01	.01	.02	.03	.03
SEP 27	52909	.25965	.31397	-.355194	.101	-.276	.02	.02	.02	.03	.03
OCT 2	52914	.25737	.30138	-.357557	-.018	-.489	.02	.02	.02	.02	.02
OCT 7	52919	.25096	.28737	-.358598	.195	.042	.01	.01	.03	.02	.02
OCT 12	52924	.24210	.27362	-.361966	.098	-.325	.02	.02	.02	.02	.02
OCT 17	52929	.23184	.25797	-.362612	.110	-.360	.01	.02	.03	.04	.05
OCT 22	52934	.22195	.24472	-	-	-	.02	.02	-	-	-
OCT 27	52939	.21717	.23374	-	-	-	.06	.06	-	-	-

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)		
SEP 2	52884	.00013	72.921	15136
SEP 7	52889	.00007		15141
SEP 12	52894	.00008		15140
SEP 17	52899	.00024		15126
SEP 22	52904	.00024		15127
SEP 27	52909	.00024		15127
OCT 2	52914	.00037		15115

5 - INFORMATION ON TIME SCALES

No leap second was introduced in UTC on 30 June 2003.
 No leap second will be introduced in UTC on 31 December 2004.
 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		Mean formal uncertainty						Data Number
Periods covered		Weighted RMS agreement with Bulletin B						
		x	y	UT	D	dX	dY	
VLBI								
EOP(AUS)	1 R 01	.20	.24	.14	-	-	-	14
	52885.21 to 52929.27	.28	.30	.06	-	-	-	
EOP(BKG)	3 R 04	.10	.08	.03	-	-	-	13
	52885.20 to 52926.20	.16	.10	.06	-	-	-	
EOP(BKG)	3 R 02	-	-	.09	-	-	-	24
	52884.79 to 52927.79	-	-	.10	-	-	-	
EOP(GSFC)	3 R 06	.07	.06	.02	-	-	-	15
	52885.20 to 52929.27	.29	.26	.12	-	-	-	
EOP(GSFC)	3 R 05	-	-	.16	-	-	-	26
	52884.79 to 52939.79	-	-	.33	-	-	-	
EOP(IAA)	3 R 04	.07	.06	.03	-	-	-	15
	52885.20 to 52929.27	.17	.12	.05	-	-	-	
EOP(IAA)	3 R 03	-	-	.12	-	-	-	33
	52884.79 to 52939.79	-	-	.18	-	-	-	
EOP(SPBU)	3 R 03	.24	.29	.16	-	-	-	13
	52885.21 to 52926.20	.29	.22	.10	-	-	-	
EOP(SPBU)	2 R 01	-	-	.16	-	-	-	24
	52884.79 to 52927.79	-	-	.14	-	-	-	
EOP(IVS)	0 R 01	.08	.07	.03	-	-	-	13
	52885.00 to 52926.00	.16	.10	.06	-	-	-	
GPS								
EOP(CODE)	98 P 01	.01	.01	-	.28	-	-	58
	52884.50 to 52941.50	.05	.04	-	.25	-	-	
EOP(EMR)	96 P 03	.04	.04	-	.05	-	-	58
	52884.50 to 52941.50	.08	.11	-	.33	-	-	
EOP(ESOC)	96 P 01	.19	.19	-	1.24	-	-	58
	52884.50 to 52941.50	.10	.11	-	.25	-	-	
EOP(GFZ)	96 P 02	.01	.01	-	.01	-	-	58
	52884.50 to 52941.50	.06	.06	-	.24	-	-	
EOP(IAA)	1 P 01	.03	.03	-	.06	-	-	58
	52884.50 to 52941.50	.18	.13	-	.35	-	-	
EOP(JPL)	96 P 03	.03	.03	-	.13	-	-	58
	52884.50 to 52941.50	.06	.11	-	.32	-	-	
EOP(NOAA)	96 P 01	.02	.02	-	.02	-	-	54
	52884.50 to 52937.50	.24	.28	-	.77	-	-	
EOP(SIO)	96 P 01	.05	.05	-	.15	-	-	58
	52884.50 to 52941.50	.16	.09	-	.24	-	-	
EOP(IGS F)	95 P 02	.02	.02	.08	.05	-	-	47
	52884.50 to 52930.50	.06	.06	.30	.22	-	-	
EOP(IGS R)	96 P 02	.03	.04	.19	.06	-	-	58
	52884.50 to 52941.50	.06	.05	.62	.19	-	-	
EOP(IERS)	97 P 01	.04	.04	.20	.13	-	-	58
	52884.50 to 52941.50	.03	.02	.35	.20	-	-	
SLR								
EOP(ASI)	3 L 02	.06	.06	-	.26	-	-	57
	52884.50 to 52940.50	.35	.18	-	3.86	-	-	
EOP(DUT)	98 L 01	.08	.08	-	-	-	-	5
	52884.00 to 52888.00	.61	.52	-	-	-	-	
EOP(IAA)	2 L 01	.03	.03	.02	.02	-	-	58
	52884.00 to 52941.00	.16	.12	.25	.14	-	-	

EOP(MCC) 97 L 01	.05	.04	-	.04	-	-	52
52884.00 to 52935.00	.19	.14	-	.47	-	-	
Bulletin A							
EOP(NEOS) 97 C 01	.05	.07	.08	-	-	-	59
52884.00 to 52942.00	.07	.05	.19	-	-	-	