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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.

JUL	4	52824	.13998	.53589	-.366747	-32.366747	.24	.08
JUL	9	52829	.15673	.52818	-.363313	-32.363313	.34	-.33
JUL	14	52834	.17324	.52119	-.359968	-32.359968	.40	.04
JUL	19	52839	.18636	.51261	-.357617	-32.357617	.04	-.36
JUL	24	52844	.20002	.50160	-.355812	-32.355812	.23	-.22
JUL	29	52849	.21137	.48924	-.354929	-32.354929	.11	-.16
AUG	3	52854	.22315	.47720	-.354031	-32.354031	.27	-.05

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

AUG	8	52859	.23224	.46366	-.352904	-32.352904	.24	-.33
AUG	13	52864	.24138	.45207	-.352044	-32.352044	.32	-.25
AUG	18	52869	.24915	.43864	-.351996	-32.351996	.00	.00
AUG	23	52874	.25596	.42492	-.351554	-32.351554	.00	.00
AUG	28	52879	.26132	.40905	-.350885	-32.350885	.00	.00
SEP	2	52884	.26588	.39458	-.351211	-32.351211	.00	.00
SEP	7	52889	.26857	.37950	-.351250	-32.351250	.00	.00
SEP	12	52894	.27002	.36423	-.351791	-32.351791	.00	.00
SEP	17	52899	.27035	.34892	-.352867	-32.352867	.00	.00
SEP	22	52904	.26951	.33360	-.354401	-32.354401	.00	.00
SEP	27	52909	.26751	.31836	-.356308	-32.356308	.00	.00
OCT	2	52914	.26436	.30327	-.358551	-32.358551	.00	.00
OCT	7	52919	.26009	.28844	-.361084	-32.361084	.00	.00
OCT	12	52924	.25472	.27393	-.363831	-32.363831	.00	.00
OCT	17	52929	.24831	.25985	-.366798	-32.366798	.00	.00
OCT	22	52934	.24090	.24626	-.369919	-32.369919	.00	.00

OCT 27 52939 .23254 .23325 -.373169 -32.373169 .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"
JUL	4	52824	.13998	.53589	-.365129	1.618	-.472	.24	.08
JUL	5	52825	.14320	.53410	-.364734	1.361	-.310	.17	.23
JUL	6	52826	.14651	.53257	-.364489	.906	-.172	.10	.23
JUL	7	52827	.14968	.53119	-.364357	.333	-.096	.09	.06
JUL	8	52828	.15309	.52973	-.364256	-.249	-.144	.20	-.18
JUL	9	52829	.15673	.52818	-.364030	-.717	-.350	.34	-.33
JUL	10	52830	.16045	.52665	-.363532	-.976	-.606	.46	-.29
JUL	11	52831	.16406	.52527	-.362815	-.984	-.812	.48	-.14
JUL	12	52832	.16754	.52394	-.361930	-.769	-.942	.46	.03
JUL	13	52833	.17064	.52265	-.360970	-.423	-.968	.42	.09
JUL	14	52834	.17324	.52119	-.360035	-.067	-.886	.40	.04
JUL	15	52835	.17569	.51966	-.359229	.191	-.712	.33	-.02
JUL	16	52836	.17828	.51810	-.358624	.287	-.496	.21	-.14
JUL	17	52837	.18097	.51651	-.358232	.210	-.293	.10	-.22
JUL	18	52838	.18356	.51470	-.358020	-.003	-.150	.05	-.28
JUL	19	52839	.18636	.51261	-.357910	-.292	-.101	.04	-.36
JUL	20	52840	.18936	.51058	-.357795	-.590	-.131	.01	-.35
JUL	21	52841	.19202	.50856	-.357629	-.833	-.191	-.01	-.26
JUL	22	52842	.19443	.50624	-.357399	-.970	-.272	.00	-.22
JUL	23	52843	.19718	.50379	-.357076	-.967	-.389	.10	-.22
JUL	24	52844	.20002	.50160	-.356620	-.808	-.515	.23	-.22
JUL	25	52845	.20252	.49950	-.356051	-.501	-.616	.34	-.11
JUL	26	52846	.20477	.49721	-.355402	-.075	-.661	.35	.06
JUL	27	52847	.20688	.49477	-.354751	.419	-.643	.29	.18
JUL	28	52848	.20905	.49212	-.354142	.910	-.582	.19	.10
JUL	29	52849	.21137	.48924	-.353615	1.314	-.471	.11	-.16
JUL	30	52850	.21390	.48643	-.353226	1.551	-.293	.12	-.40
JUL	31	52851	.21658	.48390	-.353044	1.561	-.066	.19	-.49
AUG	1	52852	.21922	.48157	-.353092	1.325	.158	.28	-.38
AUG	2	52853	.22143	.47947	-.353340	.881	.331	.30	-.18
AUG	3	52854	.22315	.47720	-.353720	.311	.401	.27	-.05
AUG	4	52855	.22483	.47474	-.354100	-.268	.326	.22	-.05
AUG	5	52856	.22650	.47231	-.354336	-.740	.143	.21	-.16
AUG	6	52857	.22822	.46960	-.354363	-1.012	-.077	.23	-.26
AUG	7	52858	.23022	.46658	-.354178	-1.042	-.315	.26	-.31
AUG	8	52859	.23224	.46366	-.353750	-.845	-.513	.24	-.33
AUG	9	52860	.23412	.46104	-.353184	-.498	-.602	.20	-.36
AUG	10	52861	.23598	.45882	-.352586	-.108	-.569	.18	-.40
AUG	11	52862	.23779	.45677	-.352079	.212	-.420	.21	-.39
AUG	12	52863	.23960	.45445	-.351766	.381	-.201	.26	-.32
AUG	13	52864	.24138	.45207	-.351678	.366	.012	.32	-.25
AUG	14	52865	.24315	.44976	-.351776	.188	.166	.35	-.24
AUG	15	52866	.24471	.44741	-.351987	-.100	.290	.37	-.29
AUG	16	52867	.24606	.44474	-.352330	-.422	.354	.00	.00
AUG	17	52868	.24758	.44173	-.352672	-.708	.290	.00	.00
AUG	18	52869	.24915	.43864	-.352893	-.896	.126	.00	.00
AUG	19	52870	.25072	.43549	-.352913	-.945	-.082	.00	.00
AUG	20	52871	.25234	.43245	-.352726	-.834	-.275	.00	.00
AUG	21	52872	.25385	.42969	-.352367	-.566	-.452	.00	.00
AUG	22	52873	.25503	.42731	-.351833	-.167	-.574	.00	.00
AUG	23	52874	.25596	.42492	-.351238	.316	-.613	.00	.00
AUG	24	52875	.25700	.42203	-.350632	.820	-.618	.00	.00
AUG	25	52876	.25827	.41885	-.350029	1.263	-.561	.00	.00
AUG	26	52877	.25934	.41574	-.349538	1.560	-.375	.00	.00
AUG	27	52878	.26026	.41238	-.349301	1.635	-.073	.00	.00

AUG 28 52879 .26132 .40905 -.349439 1.446 .233 .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"		
JUL 4	52824	.13998	.53588	-.365128	.238	.108	.01	.01	.03	.03	.04
JUL 9	52829	.15673	.52818	-.364033	.332	-.328	.01	.01	.02	.02	.02
JUL 14	52834	.17324	.52120	-.360034	.412	.053	.02	.01	.02	.02	.02
JUL 19	52839	.18636	.51261	-.357910	.030	-.354	.01	.01	.02	.03	.03
JUL 24	52844	.20002	.50160	-.356620	.244	-.199	.01	.01	.02	.02	.02
JUL 29	52849	.21137	.48923	-.353614	.092	-.214	.01	.02	.03	.02	.03
AUG 3	52854	.22315	.47720	-.353720	.257	-.028	.01	.01	.01	.02	.02
AUG 8	52859	.23223	.46367	-.353750	.272	-.326	.01	.01	.02	.03	.04
AUG 13	52864	.24138	.45206	-.351677	.305	-.268	.01	.02	.02	.02	.03
AUG 18	52869	.24915	.43865	-.352893	-	-	.02	.02	.03	-	-
AUG 23	52874	.25596	.42492	-.351240	-	-	.02	.02	.02	-	-
AUG 28	52879	.26132	.40905	-.349436	-	-	.03	.02	.05	-	-

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)
JUL 4	52824	-.00062	72.921 15199
JUL 9	52829	-.00073	15208
JUL 14	52834	-.00057	15195
JUL 19	52839	-.00041	15181
JUL 24	52844	-.00028	15171
JUL 29	52849	-.00014	15159
AUG 3	52854	-.00020	15164

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 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.

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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 01	.31	.43	.20	-	-	-	11
52828.20 to 52866.27	.19	.25	.17	-	-	-	
EOP(BKG) 3 R 03	.13	.11	.05	-	-	-	13
52828.00 to 52866.00	.16	.15	.06	-	-	-	
EOP(BKG) 3 R 02	-	-	.15	-	-	-	28
52827.79 to 52878.79	-	-	.07	-	-	-	
EOP(GSFC) 3 R 06	.08	.07	.03	-	-	-	13
52828.20 to 52866.27	.20	.26	.10	-	-	-	
EOP(GSFC) 3 R 05	-	-	.12	-	-	-	26
52827.79 to 52876.79	-	-	.18	-	-	-	
EOP(IAA) 3 R 04	.09	.07	.03	-	-	-	13
52828.20 to 52866.27	.15	.16	.03	-	-	-	
EOP(IAA) 3 R 03	-	-	.10	-	-	-	30
52827.79 to 52877.79	-	-	.10	-	-	-	
EOP(SPBU) 1 R 02	.08	.07	.03	-	-	-	5
52828.20 to 52845.27	.77	.33	.16	-	-	-	
EOP(SPBU) 2 R 01	-	-	.12	-	-	-	23
52827.79 to 52871.79	-	-	.10	-	-	-	
EOP(IVS) 0 R 01	.05	.04	.02	-	-	-	12
52828.00 to 52866.00	.09	.16	.08	-	-	-	
GPS							
EOP(CODE) 98 P 01	.01	.01	-	.26	-	-	55
52824.50 to 52878.50	.04	.03	-	.25	-	-	
EOP(EMR) 96 P 03	.03	.03	-	.04	-	-	55
52824.50 to 52878.50	.06	.07	-	.25	-	-	
EOP(ESOC) 96 P 01	.02	.02	-	.02	-	-	55
52824.50 to 52878.50	.14	.10	-	.20	-	-	
EOP(GFZ) 96 P 02	.01	.01	-	.01	-	-	55
52824.50 to 52878.50	.04	.07	-	.23	-	-	
EOP(IAA) 1 P 01	.03	.03	-	.06	-	-	55
52824.50 to 52878.50	.15	.15	-	.36	-	-	
EOP(JPL) 96 P 03	.02	.03	-	.10	-	-	55
52824.50 to 52878.50	.07	.08	-	.23	-	-	
EOP(NOAA) 96 P 01	.03	.02	-	.02	-	-	51
52824.50 to 52874.50	.18	.21	-	.74	-	-	
EOP(SIO) 96 P 01	.06	.06	-	.12	-	-	51
52824.50 to 52874.50	.15	.14	-	.46	-	-	
EOP(IGS F) 95 P 02	.02	.02	.08	.05	-	-	44
52824.50 to 52867.50	.05	.04	.23	.20	-	-	
EOP(IGS R) 96 P 02	.03	.04	.23	.07	-	-	55
52824.50 to 52878.50	.07	.05	.91	.28	-	-	
EOP(IERS) 97 P 01	.04	.04	.17	.12	-	-	55
52824.50 to 52878.50	.02	.02	.42	.25	-	-	
SLR							
EOP(ASI) 3 L 02	.07	.07	.00	-	-	-	54
52824.50 to 52877.50	.36	.38	.00	-	-	-	
EOP(IAA) 2 L 01	.04	.04	.03	.03	-	-	56
52824.00 to 52879.00	.15	.22	.40	.15	-	-	
EOP(MCC) 97 L 01	.06	.06	-	.08	-	-	49
52824.00 to 52872.00	.19	.21	-	.52	-	-	
Bulletin A							
EOP(NEOS) 97 C 01	.05	.06	.06	-	-	-	56
52824.00 to 52879.00	.06	.08	.20	-	-	-	

