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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 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"
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Final Bulletin B values.

MAY	4	53494	-0.05994	0.30372	-0.600584	-32.600584	0.02	-0.16
MAY	9	53499	-0.06066	0.31288	-0.604615	-32.604615	-0.02	-0.13
MAY	14	53504	-0.06447	0.32007	-0.608692	-32.608692	0.12	-0.10
MAY	19	53509	-0.06914	0.32758	-0.612194	-32.612194	-0.05	-0.30
MAY	24	53514	-0.07138	0.33535	-0.614633	-32.614633	-0.15	-0.14
MAY	29	53519	-0.06709	0.34556	-0.615341	-32.615341	0.00	-0.59
JUN	3	53524	-0.06048	0.35422	-0.615933	-32.615933	-0.03	-0.08

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

JUN	8	53529	-0.05814	0.36209	-0.616372	-32.616372	-0.24	0.09
JUN	13	53534	-0.05324	0.37081	-0.616298	-32.616298	0.13	-0.07
JUN	18	53539	-0.04947	0.37918	-0.615985	-32.615985	0.00	0.00
JUN	23	53544	-0.04497	0.38699	-0.615537	-32.615537	0.00	0.00
JUN	28	53549	-0.04040	0.39313	-0.614688	-32.614688	0.00	0.00
JUL	3	53554	-0.03841	0.39988	-0.613079	-32.613079	0.00	0.00
JUL	8	53559	-0.03325	0.40730	-0.611652	-32.611652	0.00	0.00
JUL	13	53564	-0.02774	0.41453	-0.610012	-32.610012	0.00	0.00
JUL	18	53569	-0.02179	0.42139	-0.608242	-32.608242	0.00	0.00
JUL	23	53574	-0.01546	0.42777	-0.606396	-32.606396	0.00	0.00
JUL	28	53579	-0.00880	0.43363	-0.604549	-32.604549	0.00	0.00
AUG	2	53584	-0.00183	0.43893	-0.602749	-32.602749	0.00	0.00
AUG	7	53589	0.00539	0.44365	-0.601070	-32.601070	0.00	0.00
AUG	12	53594	0.01283	0.44775	-0.599545	-32.599545	0.00	0.00
AUG	17	53599	0.02045	0.45124	-0.598217	-32.598217	0.00	0.00
AUG	22	53604	0.02820	0.45410	-0.597134	-32.597134	0.00	0.00

AUG 27 53609 0.03604 0.45631 -0.596325 -32.596325 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 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"
MAY	4	53494	-0.05994	0.30372	-0.600432	0.152	1.390	0.02	-0.16
MAY	5	53495	-0.06059	0.30572	-0.601850	-0.442	1.406	-0.01	-0.12
MAY	6	53496	-0.06082	0.30760	-0.603204	-1.011	1.292	-0.03	-0.15
MAY	7	53497	-0.06069	0.30952	-0.604398	-1.439	1.111	-0.04	-0.22
MAY	8	53498	-0.06060	0.31128	-0.605406	-1.642	0.904	-0.04	-0.23
MAY	9	53499	-0.06066	0.31288	-0.606206	-1.591	0.685	-0.02	-0.13
MAY	10	53500	-0.06086	0.31447	-0.606790	-1.306	0.477	0.04	0.08
MAY	11	53501	-0.06130	0.31594	-0.607185	-0.846	0.324	0.09	0.16
MAY	12	53502	-0.06202	0.31731	-0.607465	-0.289	0.234	0.13	0.10
MAY	13	53503	-0.06307	0.31872	-0.607680	0.280	0.210	0.13	-0.02
MAY	14	53504	-0.06447	0.32007	-0.607910	0.782	0.295	0.12	-0.10
MAY	15	53505	-0.06575	0.32155	-0.608289	1.154	0.467	0.09	-0.08
MAY	16	53506	-0.06670	0.32325	-0.608854	1.351	0.641	0.03	-0.05
MAY	17	53507	-0.06746	0.32482	-0.609574	1.355	0.782	-0.04	-0.11
MAY	18	53508	-0.06826	0.32621	-0.610411	1.170	0.903	-0.08	-0.21
MAY	19	53509	-0.06914	0.32758	-0.611364	0.830	1.002	-0.05	-0.30
MAY	20	53510	-0.06996	0.32900	-0.612391	0.393	1.014	-0.02	-0.31
MAY	21	53511	-0.07057	0.33042	-0.613359	-0.053	0.932	-0.07	-0.29
MAY	22	53512	-0.07089	0.33203	-0.614221	-0.406	0.761	-0.17	-0.30
MAY	23	53513	-0.07116	0.33373	-0.614856	-0.574	0.462	-0.22	-0.27
MAY	24	53514	-0.07138	0.33535	-0.615139	-0.506	0.123	-0.15	-0.14
MAY	25	53515	-0.07130	0.33707	-0.615121	-0.223	-0.149	-0.02	0.03
MAY	26	53516	-0.07035	0.33904	-0.614881	0.184	-0.299	0.05	0.07
MAY	27	53517	-0.06896	0.34126	-0.614571	0.580	-0.264	0.04	-0.12
MAY	28	53518	-0.06799	0.34347	-0.614394	0.827	-0.043	0.00	-0.40
MAY	29	53519	-0.06709	0.34556	-0.614504	0.837	0.237	0.00	-0.59
MAY	30	53520	-0.06595	0.34768	-0.614861	0.587	0.466	0.03	-0.59
MAY	31	53521	-0.06449	0.34950	-0.615409	0.128	0.638	0.02	-0.43
JUN	1	53522	-0.06293	0.35090	-0.616098	-0.441	0.724	-0.03	-0.23
JUN	2	53523	-0.06155	0.35236	-0.616817	-0.999	0.652	-0.05	-0.09
JUN	3	53524	-0.06048	0.35422	-0.617370	-1.437	0.440	-0.03	-0.08
JUN	4	53525	-0.05988	0.35624	-0.617676	-1.674	0.198	-0.03	-0.15
JUN	5	53526	-0.05951	0.35801	-0.617762	-1.672	-0.026	-0.07	-0.19
JUN	6	53527	-0.05909	0.35953	-0.617634	-1.437	-0.237	-0.17	-0.12
JUN	7	53528	-0.05860	0.36089	-0.617308	-1.015	-0.407	-0.25	0.03
JUN	8	53529	-0.05814	0.36209	-0.616847	-0.475	-0.535	-0.24	0.09
JUN	9	53530	-0.05757	0.36311	-0.616265	0.101	-0.562	-0.16	-0.02
JUN	10	53531	-0.05656	0.36457	-0.615747	0.633	-0.475	-0.05	-0.21
JUN	11	53532	-0.05544	0.36664	-0.615335	1.051	-0.326	0.06	-0.29
JUN	12	53533	-0.05434	0.36871	-0.615107	1.308	-0.211	0.14	-0.20
JUN	13	53534	-0.05324	0.37081	-0.614916	1.381	-0.098	0.13	-0.07
JUN	14	53535	-0.05246	0.37290	-0.614906	1.272	0.082	0.05	-0.06
JUN	15	53536	-0.05199	0.37466	-0.615068	1.007	0.246	-0.03	-0.18
JUN	16	53537	-0.05136	0.37616	-0.615380	0.633	0.366	-0.02	-0.25
JUN	17	53538	-0.05050	0.37764	-0.615774	0.220	0.392	0.05	-0.20
JUN	18	53539	-0.04947	0.37918	-0.616132	-0.146	0.292	0.00	0.00
JUN	19	53540	-0.04825	0.38083	-0.616328	-0.374	0.061	0.00	0.00
JUN	20	53541	-0.04711	0.38249	-0.616238	-0.393	-0.214	0.00	0.00
JUN	21	53542	-0.04621	0.38408	-0.615908	-0.191	-0.407	0.00	0.00
JUN	22	53543	-0.04552	0.38567	-0.615458	0.173	-0.497	0.00	0.00
JUN	23	53544	-0.04497	0.38699	-0.614964	0.574	-0.491	0.00	0.00
JUN	24	53545	-0.04441	0.38813	-0.614525	0.859	-0.292	0.00	0.00
JUN	25	53546	-0.04369	0.38938	-0.614410	0.909	0.013	0.00	0.00
JUN	26	53547	-0.04279	0.39051	-0.614509	0.675	0.223	0.00	0.00
JUN	27	53548	-0.04155	0.39164	-0.614765	0.201	0.322	0.00	0.00

JUN 28	53549	-0.04040	0.39313	-0.615096	-0.408	0.322	0.00	0.00
JUN 29	53550	-0.03998	0.39454	-0.615367	-1.016	0.244	0.00	0.00
JUN 30	53551	-0.03956	0.39563	-0.615481	-1.501	0.021	0.00	0.00

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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"		
MAY 4	53494	-0.05994	0.30376	-0.600432	0.007	-.130	0.01	0.01	0.01	0.02	0.01
MAY 9	53499	-0.06064	0.31287	-0.606206	0.075	-.105	0.02	0.02	0.02	0.05	0.05
MAY 14	53504	-0.06447	0.32006	-0.607906	0.060	-.045	0.02	0.03	0.03	0.04	0.05
MAY 19	53509	-0.06914	0.32759	-0.611367	-.050	-.306	0.01	0.01	0.02	0.02	0.02
MAY 24	53514	-0.07138	0.33534	-0.615134	-.153	-.148	0.02	0.02	0.02	0.03	0.03
MAY 29	53519	-0.06709	0.34557	-0.614492	0.023	-.582	0.02	0.02	0.03	0.06	0.07
JUN 3	53524	-0.06048	0.35420	-0.617368	-.044	-.092	0.02	0.02	0.02	0.04	0.04
JUN 8	53529	-0.05813	0.36208	-0.616845	-.230	0.086	0.02	0.02	0.02	0.03	0.03
JUN 13	53534	-0.05323	0.37081	-0.614915	0.135	-.070	0.02	0.02	0.03	0.05	0.05
JUN 18	53539	-0.04947	0.37919	-0.616133	-	-	0.01	0.02	0.02	-	-
JUN 23	53544	-0.04497	0.38699	-0.614968	-	-	0.02	0.02	0.03	-	-
JUN 28	53549	-0.04042	0.39314	-0.615150	-	-	0.02	0.02	0.06	-	-

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		
2005 MJD	s	(microrad/s)		
MAY 4	53494	0.00083	72.921	15076
MAY 9	53499	0.00086		15074
MAY 14	53504	0.00075		15084
MAY 19	53509	0.00061		15096
MAY 24	53514	0.00031		15120
MAY 29	53519	0.00012		15137
JUN 3	53524	0.00010		15138

5 - INFORMATION ON TIME SCALES

No leap second was 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](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
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Periods covered			Weighted RMS agreement with Bulletin B					Data	Number
			x	y	UT	D	dX	dY	
VLBI									
EOP(AUS)	1	R 1	0.07	0.07	0.03	-	-	-	13
53496.27 to 53538.27			0.24	0.21	0.13	-	-	-	
EOP(BKG)	3	R 4	0.13	0.11	0.04	-	-	-	12
53496.27 to 53535.20			0.30	0.21	0.08	-	-	-	
EOP(BKG)	3	R 2	-	-	0.14	-	-	-	42
53494.79 to 53547.33			-	-	0.22	-	-	-	
EOP(USNO)	5	R 1	-	-	0.14	-	-	-	42
53494.79 to 53547.33			-	-	0.21	-	-	-	
EOP(GSFC)	4	R 2	0.06	0.06	0.02	-	-	-	13
53496.27 to 53538.27			0.14	0.06	0.08	-	-	-	
EOP(GSFC)	4	R 1	-	-	0.14	-	-	-	42
53494.79 to 53547.33			-	-	0.22	-	-	-	
EOP(IAA)	5	R 1	0.07	0.07	0.03	-	0.13	0.05	13
53496.27 to 53538.27			0.23	0.19	0.09	-	0.14	0.05	
EOP(IAA)	3	R 3	-	-	0.13	-	-	-	40
53495.79 to 53547.33			-	-	0.22	-	-	-	
EOP(SPBU)	3	R 3	0.26	0.30	0.16	-	-	-	13
53496.27 to 53538.27			0.16	0.15	0.08	-	-	-	
EOP(SPBU)	2	R 1	-	-	0.14	-	-	-	42
53494.79 to 53547.33			-	-	0.23	-	-	-	
EOP(MAO)	3	R 1	0.08	0.08	0.04	-	0.15	0.06	7
53496.28 to 53517.32			0.35	0.23	0.13	-	0.15	0.13	
EOP(USNO)	5	R 1	0.07	0.07	0.03	-	-	-	13
53496.27 to 53538.27			0.14	0.06	0.05	-	-	-	
EOP(IVS)	0	R 1	0.09	0.09	0.04	-	-	-	12
53496.00 to 53535.00			0.15	0.10	0.07	-	-	-	
GPS									
EOP(CODE)	98	P 1	0.02	0.02	-	0.16	-	-	57
53494.50 to 53550.50			0.04	0.07	-	0.25	-	-	
EOP(EMR)	96	P 3	0.03	0.03	-	0.04	-	-	57
53494.50 to 53550.50			0.06	0.12	-	0.45	-	-	
EOP(ESOC)	96	P 1	0.02	0.02	-	0.06	-	-	57
53494.50 to 53550.50			0.06	0.09	-	0.49	-	-	
EOP(GFZ)	96	P 2	0.01	0.01	-	0.02	-	-	57
53494.50 to 53550.50			0.05	0.04	-	0.31	-	-	
EOP(IAA)	1	P 1	0.03	0.03	-	0.07	-	-	54
53494.50 to 53547.50			0.23	0.31	-	0.73	-	-	
EOP(JPL)	96	P 3	0.02	0.02	-	0.11	-	-	46
53494.50 to 53539.50			0.04	0.04	-	0.33	-	-	
EOP(NOAA)	96	P 1	0.00	0.01	-	0.02	-	-	53
53494.50 to 53546.50			0.16	0.09	-	0.36	-	-	
EOP(SIO)	96	P 1	0.08	0.08	-	0.18	-	-	57
53494.50 to 53550.50			0.06	0.06	-	0.33	-	-	
EOP(IGS F)	95	P 2	0.02	0.02	0.07	0.05	-	-	39
53494.50 to 53532.50			0.03	0.09	0.24	0.20	-	-	
EOP(IGS R)	96	P 2	0.03	0.04	0.20	0.07	-	-	57
53494.50 to 53550.50			0.06	0.06	0.80	0.20	-	-	
EOP(IERS)	97	P 1	0.03	0.04	0.19	0.11	-	-	57
53494.50 to 53550.50			0.03	0.03	0.33	0.25	-	-	
SLR									
EOP(ASI)	3	L 2	0.06	0.07	-	0.14	-	-	42
53494.50 to 53535.50			0.21	0.28	-	0.94	-	-	

EOP(CSR) 95 L 1	0.31	0.45	0.39	-	-	-	8
53496.39 to 53516.10	0.38	0.46	0.69	-	-	-	
EOP(DUT) 98 L 1	0.09	0.10	-	-	-	-	46
53494.00 to 53539.00	0.37	0.36	-	-	-	-	
EOP(IAA) 2 L 1	0.03	0.04	0.02	0.02	-	-	56
53494.00 to 53549.00	0.12	0.21	0.29	0.12	-	-	
EOP(MCC) 97 L 1	0.04	0.06	-	0.10	-	-	51
53494.00 to 53544.00	0.12	0.16	-	0.49	-	-	
EOP(ILRS) 5 L 1	0.07	0.08	-	0.16	-	-	78
53494.50 to 53546.50	0.41	0.19	-	0.54	-	-	
Bulletin A							
EOP(NEOS) 97 C 1	0.05	0.06	0.08	-	-	-	58
53494.00 to 53551.00	0.06	0.09	0.25	-	-	-	