

=====
 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.

=====
 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.

JAN	4	53374	0.14846	0.23466	-0.506278	-32.506278	0.00	-0.55
JAN	9	53379	0.14193	0.22669	-0.508386	-32.508386	0.31	-0.21
JAN	14	53384	0.13198	0.22084	-0.511373	-32.511373	0.11	-0.50
JAN	19	53389	0.12416	0.21552	-0.514587	-32.514587	0.04	-0.39
JAN	24	53394	0.11248	0.21135	-0.517944	-32.517944	-0.01	-0.38
JAN	29	53399	0.10077	0.20877	-0.520240	-32.520240	0.09	-0.21
FEB	3	53404	0.08667	0.20685	-0.522104	-32.522104	-0.07	-0.36

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

FEB	8	53409	0.07314	0.20526	-0.525109	-32.525109	0.09	-0.41
FEB	13	53414	0.05918	0.20290	-0.529230	-32.529230	-0.13	-0.27
FEB	18	53419	0.04590	0.20309	-0.533704	-32.533704	0.00	0.00
FEB	23	53424	0.03323	0.20604	-0.539386	-32.539386	0.00	0.00
FEB	28	53429	0.02584	0.20978	-0.545725	-32.545725	0.00	0.00
MAR	5	53434	0.01611	0.21349	-0.551792	-32.551792	0.00	0.00
MAR	10	53439	0.00603	0.21760	-0.557331	-32.557331	0.00	0.00
MAR	15	53444	-0.00408	0.22247	-0.562519	-32.562519	0.00	0.00
MAR	20	53449	-0.01392	0.22802	-0.567417	-32.567417	0.00	0.00
MAR	25	53454	-0.02343	0.23423	-0.572102	-32.572102	0.00	0.00
MAR	30	53459	-0.03254	0.24103	-0.576595	-32.576595	0.00	0.00
APR	4	53464	-0.04120	0.24839	-0.580921	-32.580921	0.00	0.00
APR	9	53469	-0.04937	0.25626	-0.585087	-32.585087	0.00	0.00
APR	14	53474	-0.05701	0.26458	-0.589085	-32.589085	0.00	0.00
APR	19	53479	-0.06409	0.27330	-0.592899	-32.592899	0.00	0.00
APR	24	53484	-0.07057	0.28237	-0.596508	-32.596508	0.00	0.00

APR 29 53489 -0.07645 0.29173 -0.599888 -32.599888 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.

IERS, B 205 (2)

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	MJD	x	y	UT1-UTC	UT1-UT1R	D	dX	dY
(0 h UTC)	"	"	"	s	ms	ms	0.001"	0.001"
JAN 4	53374	0.14846	0.23466	-0.505848	0.429	0.878	0.00	-0.55
JAN 5	53375	0.14805	0.23313	-0.506743	0.013	0.794	0.00	-0.30
JAN 6	53376	0.14695	0.23163	-0.507404	-0.282	0.575	-0.01	-0.28
JAN 7	53377	0.14514	0.22974	-0.507874	-0.374	0.385	0.05	-0.40
JAN 8	53378	0.14352	0.22780	-0.508177	-0.237	0.202	0.21	-0.40
JAN 9	53379	0.14193	0.22669	-0.508308	0.078	0.178	0.31	-0.21
JAN 10	53380	0.13996	0.22544	-0.508582	0.450	0.213	0.24	-0.12
JAN 11	53381	0.13739	0.22431	-0.508786	0.724	0.360	0.10	-0.33
JAN 12	53382	0.13537	0.22301	-0.509334	0.775	0.705	0.05	-0.61
JAN 13	53383	0.13361	0.22182	-0.510199	0.549	0.989	0.09	-0.66
JAN 14	53384	0.13198	0.22084	-0.511286	0.087	1.146	0.11	-0.50
JAN 15	53385	0.13007	0.21963	-0.512447	-0.503	1.228	0.07	-0.46
JAN 16	53386	0.12872	0.21834	-0.513698	-1.085	1.157	0.04	-0.59
JAN 17	53387	0.12744	0.21725	-0.514728	-1.543	1.000	0.04	-0.67
JAN 18	53388	0.12584	0.21616	-0.515680	-1.800	0.845	0.04	-0.56
JAN 19	53389	0.12416	0.21552	-0.516415	-1.828	0.607	0.04	-0.39
JAN 20	53390	0.12165	0.21508	-0.516902	-1.633	0.401	0.08	-0.30
JAN 21	53391	0.11931	0.21385	-0.517232	-1.252	0.247	0.12	-0.34
JAN 22	53392	0.11718	0.21319	-0.517418	-0.738	0.126	0.08	-0.42
JAN 23	53393	0.11464	0.21223	-0.517507	-0.160	0.046	0.02	-0.42
JAN 24	53394	0.11248	0.21135	-0.517535	0.409	0.024	-0.01	-0.38
JAN 25	53395	0.11006	0.21045	-0.517579	0.894	0.088	0.01	-0.37
JAN 26	53396	0.10769	0.20951	-0.517728	1.237	0.201	0.05	-0.34
JAN 27	53397	0.10552	0.20903	-0.517989	1.400	0.355	0.07	-0.29
JAN 28	53398	0.10319	0.20895	-0.518438	1.370	0.548	0.09	-0.22
JAN 29	53399	0.10077	0.20877	-0.519074	1.166	0.630	0.09	-0.21
JAN 30	53400	0.09755	0.20872	-0.519679	0.832	0.659	0.09	-0.28
JAN 31	53401	0.09469	0.20802	-0.520366	0.434	0.769	0.07	-0.36
FEB 1	53402	0.09207	0.20836	-0.521188	0.054	0.783	0.03	-0.35
FEB 2	53403	0.08922	0.20736	-0.521904	-0.222	0.629	-0.02	-0.30
FEB 3	53404	0.08667	0.20685	-0.522426	-0.322	0.426	-0.07	-0.36
FEB 4	53405	0.08391	0.20602	-0.522753	-0.208	0.263	-0.04	-0.54
FEB 5	53406	0.08155	0.20586	-0.522971	0.096	0.176	0.08	-0.62
FEB 6	53407	0.07891	0.20556	-0.523147	0.499	0.304	0.20	-0.50
FEB 7	53408	0.07610	0.20577	-0.523631	0.860	0.443	0.20	-0.36
FEB 8	53409	0.07314	0.20526	-0.524076	1.033	0.621	0.09	-0.41
FEB 9	53410	0.07003	0.20499	-0.524891	0.922	0.989	0.01	-0.59
FEB 10	53411	0.06684	0.20408	-0.526041	0.521	1.300	-0.02	-0.61
FEB 11	53412	0.06413	0.20359	-0.527452	-0.085	1.518	-0.04	-0.41
FEB 12	53413	0.06168	0.20312	-0.529025	-0.755	1.583	-0.12	-0.26
FEB 13	53414	0.05918	0.20290	-0.530573	-1.342	1.452	-0.13	-0.27
FEB 14	53415	0.05754	0.20302	-0.531901	-1.736	1.207	-0.05	-0.31
FEB 15	53416	0.05453	0.20324	-0.532978	-1.879	0.924	0.02	-0.33
FEB 16	53417	0.05212	0.20300	-0.533756	-1.771	0.647	0.00	0.00
FEB 17	53418	0.04824	0.20278	-0.534287	-1.448	0.446	0.00	0.00
FEB 18	53419	0.04590	0.20309	-0.534671	-0.966	0.406	0.00	0.00
FEB 19	53420	0.04230	0.20367	-0.535125	-0.399	0.492	0.00	0.00
FEB 20	53421	0.04056	0.20436	-0.535680	0.179	0.580	0.00	0.00
FEB 21	53422	0.03744	0.20508	-0.536308	0.691	0.698	0.00	0.00
FEB 22	53423	0.03564	0.20561	-0.537115	1.072	0.883	0.00	0.00
FEB 23	53424	0.03323	0.20604	-0.538110	1.276	1.082	0.00	0.00
FEB 24	53425	0.03163	0.20612	-0.539310	1.280	1.236	0.00	0.00

IERS, B 205 (3)

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"		
JAN 4	53374	0.14850	0.23465	-0.505847	0.004	-.553	0.01	0.02	0.02	0.03	0.03
JAN 9	53379	0.14194	0.22671	-0.508308	0.319	-.201	0.01	0.02	0.01	0.02	0.02
JAN 14	53384	0.13198	0.22084	-0.511287	0.137	-.432	0.01	0.01	0.02	0.03	0.03
JAN 19	53389	0.12417	0.21555	-0.516415	0.040	-.374	0.02	0.02	0.02	0.02	0.02
JAN 24	53394	0.11247	0.21136	-0.517536	-.028	-.444	0.01	0.01	0.02	0.02	0.03
JAN 29	53399	0.10077	0.20877	-0.519072	0.123	-.193	0.02	0.02	0.03	0.06	0.08
FEB 3	53404	0.08666	0.20686	-0.522424	-.097	-.372	0.02	0.02	0.02	0.03	0.03
FEB 8	53409	0.07313	0.20527	-0.524077	0.045	-.423	0.02	0.02	0.02	0.04	0.04
FEB 13	53414	0.05918	0.20291	-0.530574	-.127	-.265	0.01	0.01	0.01	0.03	0.03
FEB 18	53419	0.04589	0.20308	-0.534673	-	-	0.01	0.01	0.01	-	-
FEB 23	53424	0.03322	0.20604	-0.538092	-	-	0.02	0.02	0.05	-	-

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		
2005 MJD	s	(microrad/s)		
JAN 4	53374	0.00044	72.921	15110
JAN 9	53379	0.00055		15100
JAN 14	53384	0.00060		15096
JAN 19	53389	0.00070		15088
JAN 24	53394	0.00057		15099
JAN 29	53399	0.00036		15117
FEB 3	53404	0.00044		15110

5 - INFORMATION ON TIME SCALES

No leap second was introduced in UTC on 31 December 2001.
 No leap second will be introduced in UTC on 31 December 1999.
 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

IERS, B 205 (4)

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							
Periods covered	Weighted RMS agreement with Bulletin B	x	y	UT	D	dX	dY	Data Number
VLBI								
EOP(AUS) 1 R 1	0.09	0.08	0.04	-	-	-	-	11
53374.21 to 53409.20	0.19	0.27	0.06	-	-	-	-	

EOP(BKG) 3 R 4	0.11	0.09	0.04	-	-	-	10
53374.20 to 53405.27	0.17	0.16	0.11	-	-	-	
EOP(BKG) 3 R 2	-	-	0.17	-	-	-	40
53374.79 to 53421.33	-	-	0.12	-	-	-	
EOP(USNO) 5 R 1	-	-	0.18	-	-	-	41
53374.79 to 53422.79	-	-	0.16	-	-	-	
EOP(GSFC) 4 R 2	0.14	0.08	0.08	-	-	-	14
53374.20 to 53416.21	0.10	0.13	0.07	-	-	-	
EOP(GSFC) 4 R 1	-	-	0.19	-	-	-	42
53374.79 to 53422.79	-	-	0.12	-	-	-	
EOP(IAA) 3 R 4	0.09	0.08	0.04	-	0.14	0.05	10
53374.21 to 53405.27	0.10	0.20	0.09	-	0.19	0.08	
EOP(IAA) 3 R 3	-	-	0.16	-	-	-	36
53374.80 to 53417.79	-	-	0.15	-	-	-	
EOP(SPBU) 3 R 3	0.26	0.30	0.17	-	-	-	11
53374.21 to 53409.20	0.07	0.14	0.13	-	-	-	
EOP(SPBU) 2 R 1	-	-	0.27	-	-	-	25
53374.79 to 53418.79	-	-	0.11	-	-	-	
EOP(MAO) 3 R 1	0.08	0.08	0.04	-	0.14	0.06	12
53374.23 to 53416.23	0.17	0.29	0.15	-	0.26	0.08	
EOP(USNO) 4 R 1	0.07	0.07	0.03	-	-	-	13
53374.20 to 53416.21	0.09	0.13	0.08	-	-	-	
EOP(IVS) 0 R 1	0.06	0.05	0.02	-	-	-	10
53374.00 to 53405.00	0.18	0.13	0.06	-	-	-	
GPS							
EOP(CODE) 98 P 1	0.01	0.01	-	0.19	-	-	51
53374.50 to 53424.50	0.03	0.10	-	0.30	-	-	
EOP(EMR) 96 P 3	0.03	0.03	-	0.04	-	-	51
53374.50 to 53424.50	0.06	0.20	-	0.45	-	-	
EOP(ESOC) 96 P 1	0.02	0.02	-	0.09	-	-	51
53374.50 to 53424.50	0.08	0.17	-	0.47	-	-	
EOP(GFZ) 96 P 2	0.01	0.01	-	0.01	-	-	51
53374.50 to 53424.50	0.04	0.03	-	0.27	-	-	
EOP(IAA) 1 P 1	0.03	0.03	-	0.06	-	-	48
53374.50 to 53421.50	0.13	0.42	-	0.41	-	-	
EOP(JPL) 96 P 3	0.02	0.03	-	0.12	-	-	40
53374.50 to 53413.50	0.03	0.04	-	0.32	-	-	
EOP(NOAA) 96 P 1	0.01	0.01	-	0.02	-	-	46
53374.50 to 53419.50	0.13	0.16	-	0.32	-	-	
EOP(SIO) 96 P 1	0.05	0.05	-	0.11	-	-	51
53374.50 to 53424.50	0.07	0.07	-	0.35	-	-	
EOP(IGS F)95 P 2	0.02	0.03	0.07	0.05	-	-	40
53374.50 to 53413.50	0.06	0.12	0.28	0.26	-	-	
EOP(IGS R)96 P 2	0.04	0.04	0.18	0.06	-	-	51
53374.50 to 53424.50	0.08	0.12	0.69	0.25	-	-	
EOP(IERS) 97 P 1	0.04	0.04	0.20	0.13	-	-	51
53374.50 to 53424.50	0.02	0.02	0.28	0.26	-	-	
SLR							
EOP(ASI) 3 L 2	0.09	0.11	-	0.13	-	-	50
53374.50 to 53423.50	0.30	0.38	-	0.98	-	-	
EOP(ILRS) 5 L 1	0.13	0.17	-	0.27	-	-	47
53374.50 to 53420.50	0.31	0.25	-	0.77	-	-	
EOP(DUT) 98 L 1	0.12	0.12	-	-	-	-	52
53374.00 to 53425.00	0.57	0.35	-	-	-	-	
EOP(IAA) 2 L 1	0.04	0.05	0.03	0.03	-	-	48

53374.00 to 53421.00	0.31	0.21	0.52	0.28	-	-	
EOP(MCC) 97 L 1	0.05	0.07	-	0.10	-	-	45
53374.00 to 53418.00	0.18	0.33	-	0.61	-	-	
Bulletin A							
EOP(NEOS) 97 C 1	0.06	0.06	0.07	-	-	-	52
53374.00 to 53425.00	0.15	0.13	0.34	-	-	-	