BULLETIN B 250
(IAU 2000)
1 December 2008

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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 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 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 2008/2009 (0h UTC)		MJD	x "	y "	UT1R-UTC s	UT1R-TAI s	dX 0.001"	dY 0.001"
Final Bulletin B values.								
OCT	5	54744	0.25432	0.20980	-0.494480	-33.494480	0.07	-0.24
OCT	10	54749	0.24235	0.19789	-0.499059	-33.499059	0.00	-0.60
OCT	15	54754	0.22976	0.18475	-0.504003	-33.504003	-0.11	-0.34
OCT	20	54759	0.21621	0.17284	-0.510144	-33.510144	-0.04	-0.36
OCT	25	54764	0.20121	0.16256	-0.516572	-33.516572	-0.02	-0.52
OCT	30	54769	0.18844	0.15443	-0.522868	-33.522868	-0.12	-0.41
NOV	4	54774	0.17327	0.14779	-0.528813	-33.528813	-0.02	-0.31
Preliminary extension, to be updated weekly in Bulletin A and monthly in Bulletin B.								
NOV	9	54779	0.15770	0.14305	-0.533796	-33.533796	0.00	-0.18
NOV	14	54784	0.13828	0.13802	-0.539711	-33.539711	-0.23	-0.39
NOV	19	54789	0.12059	0.13511	-0.545540	-33.545540	0.02	-0.04
NOV	24	54794	0.11088	0.13665	-0.552653	-33.552653	0.02	-0.04
NOV	29	54799	0.09455	0.13590	-0.560068	-33.560068	0.00	0.00
DEC	4	54804	0.07931	0.13704	-0.565368	-33.565368	0.00	0.00
DEC	9	54809	0.06326	0.13964	-0.570019	-33.570019	0.00	0.00
DEC	14	54814	0.04488	0.14303	-0.574626	-33.574626	0.00	0.00
DEC	19	54819	0.02595	0.14883	-0.579226	-33.579226	0.00	0.00
DEC	24	54824	0.00632	0.15473	-0.583816	-33.583816	0.00	0.00
DEC	29	54829	-0.01173	0.16210	-0.588311	-33.588311	0.00	0.00
JAN	3	54834	-0.02823	0.17039	0.407261	-33.592739	0.00	0.00
JAN	8	54839	-0.04550	0.18122	0.402861	-33.597139	0.00	0.00
JAN	13	54844	-0.06101	0.19256	0.398510	-33.601490	0.00	0.00
JAN	18	54849	-0.07637	0.20421	0.394155	-33.605845	0.00	0.00
JAN	23	54854	-0.09011	0.21645	0.389803	-33.610197	0.00	0.00

JAN	28	54859	-0.10343	0.23048	0.385430	-33.614570	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 2007 IERS Annual Report.

2008 (0 h UTC)		MJD	x "	y "	UT1-UTC s	UT1-UT1R ms	D ms	dX 0.001"	dY 0.001"
OCT	5	54744	0.25432	0.20980	-0.494668	-0.187	0.363	0.07	-0.24
OCT	6	54745	0.25210	0.20763	-0.495046	0.375	0.338	0.10	-0.23
OCT	7	54746	0.24968	0.20563	-0.495357	0.906	0.396	0.08	-0.32
OCT	8	54747	0.24717	0.20351	-0.495844	1.331	0.565	0.06	-0.44
OCT	9	54748	0.24481	0.20086	-0.496526	1.591	0.780	0.04	-0.54
OCT	10	54749	0.24235	0.19789	-0.497417	1.641	1.009	0.00	-0.60
OCT	11	54750	0.23964	0.19475	-0.498547	1.463	1.248	-0.06	-0.64
OCT	12	54751	0.23708	0.19176	-0.499913	1.074	1.454	-0.12	-0.64
OCT	13	54752	0.23478	0.18918	-0.501445	0.538	1.566	-0.17	-0.61
OCT	14	54753	0.23251	0.18686	-0.503026	-0.039	1.574	-0.14	-0.45
OCT	15	54754	0.22976	0.18475	-0.504532	-0.529	1.459	-0.11	-0.34
OCT	16	54755	0.22703	0.18253	-0.505922	-0.817	1.298	-0.09	-0.33
OCT	17	54756	0.22441	0.18035	-0.507136	-0.845	1.131	-0.08	-0.38
OCT	18	54757	0.22161	0.17789	-0.508163	-0.631	0.981	-0.08	-0.40
OCT	19	54758	0.21890	0.17524	-0.509064	-0.269	0.953	-0.06	-0.42
OCT	20	54759	0.21621	0.17284	-0.510034	0.110	1.020	-0.04	-0.36
OCT	21	54760	0.21366	0.17062	-0.511115	0.381	1.156	-0.02	-0.34
OCT	22	54761	0.21128	0.16874	-0.512339	0.461	1.319	0.00	-0.31
OCT	23	54762	0.20841	0.16691	-0.513750	0.327	1.482	0.00	-0.34
OCT	24	54763	0.20498	0.16494	-0.515328	0.014	1.624	0.00	-0.42
OCT	25	54764	0.20121	0.16256	-0.516976	-0.404	1.652	-0.02	-0.52
OCT	26	54765	0.19776	0.15996	-0.518610	-0.836	1.602	-0.03	-0.53
OCT	27	54766	0.19524	0.15794	-0.520204	-1.190	1.548	-0.04	-0.51
OCT	28	54767	0.19329	0.15675	-0.521696	-1.396	1.423	-0.06	-0.47
OCT	29	54768	0.19116	0.15587	-0.523007	-1.408	1.181	-0.09	-0.44
OCT	30	54769	0.18844	0.15443	-0.524087	-1.220	0.961	-0.12	-0.41
OCT	31	54770	0.18565	0.15298	-0.524968	-0.853	0.811	-0.13	-0.37
NOV	1	54771	0.18259	0.15153	-0.525697	-0.357	0.670	-0.12	-0.30
NOV	2	54772	0.17941	0.14971	-0.526323	0.201	0.622	-0.08	-0.25
NOV	3	54773	0.17648	0.14852	-0.526939	0.750	0.634	-0.04	-0.25
NOV	4	54774	0.17327	0.14779	-0.527594	1.219	0.667	-0.02	-0.31
NOV	5	54775	0.16976	0.14677	-0.528309	1.548	0.777	-0.04	-0.42
NOV	6	54776	0.16650	0.14566	-0.529156	1.692	0.940	-0.05	-0.49
NOV	7	54777	0.16378	0.14479	-0.530192	1.627	1.134	-0.06	-0.46
NOV	8	54778	0.16088	0.14392	-0.531431	1.353	1.348	-0.03	-0.33
NOV	9	54779	0.15770	0.14305	-0.532887	0.909	1.560	0.00	-0.18
NOV	10	54780	0.15406	0.14229	-0.534514	0.371	1.658	-0.02	-0.13
NOV	11	54781	0.15026	0.14119	-0.536182	-0.150	1.635	-0.09	-0.21
NOV	12	54782	0.14672	0.14032	-0.537793	-0.535	1.510	-0.22	-0.39
NOV	13	54783	0.14258	0.13942	-0.539200	-0.692	1.267	-0.29	-0.48
NOV	14	54784	0.13828	0.13802	-0.540311	-0.600	0.990	-0.23	-0.39
NOV	15	54785	0.13449	0.13689	-0.541171	-0.319	0.798	0.02	-0.04
NOV	16	54786	0.13091	0.13619	-0.541918	0.027	0.806	0.02	-0.04
NOV	17	54787	0.12699	0.13577	-0.542766	0.299	0.957	0.02	-0.04
NOV	18	54788	0.12331	0.13544	-0.543870	0.389	1.231	0.02	-0.04
NOV	19	54789	0.12059	0.13511	-0.545279	0.262	1.559	0.02	-0.04
NOV	20	54790	0.11853	0.13516	-0.546940	-0.054	1.756	0.02	-0.04
NOV	21	54791	0.11697	0.13550	-0.548779	-0.479	1.843	0.02	-0.04
NOV	22	54792	0.11540	0.13599	-0.550648	-0.918	1.853	0.02	-0.04
NOV	23	54793	0.11338	0.13630	-0.552463	-1.282	1.759	0.02	-0.04
NOV	24	54794	0.11088	0.13665	-0.554159	-1.505	1.614	0.02	-0.04
NOV	25	54795	0.10782	0.13728	-0.555713	-1.546	1.462	0.02	-0.04
NOV	26	54796	0.10447	0.13716	-0.557116	-1.392	1.310	0.02	-0.04
NOV	27	54797	0.10117	0.13650	-0.558255	-1.058	1.181	0.02	-0.04
NOV	28	54798	0.09783	0.13608	-0.559330	-0.586	1.107	0.00	0.00

NOV	29	54799	0.09455	0.13590	-0.560103	-0.034	1.085	0.00	0.00
NOV	30	54800	0.09143	0.13598	-0.560741	0.525	1.124	0.00	0.00
DEC	1	54801	0.08838	0.13633	-0.561346	1.023	1.222	0.00	0.00
DEC	2	54802	0.08537	0.13661	-0.562012	1.399	1.367	0.00	0.00
DEC	3	54803	0.08240	0.13680	-0.562795	1.609	1.544	0.00	0.00
DEC	4	54804	0.07931	0.13704	-0.563739	1.630	1.731	0.00	0.00
DEC	5	54805	0.07595	0.13738	-0.564854	1.459	1.905	0.00	0.00
DEC	6	54806	0.07268	0.13784	-0.566125	1.123	2.039	0.00	0.00
DEC	7	54807	0.06956	0.13838	-0.567498	0.676	2.103	0.00	0.00
DEC	8	54808	0.06645	0.13894	-0.568893	0.203	2.068	0.00	0.00
DEC	9	54809	0.06326	0.13964	-0.570211	-0.192	1.929	0.00	0.00
DEC	10	54810	0.05983	0.14038	-0.571355	-0.415	1.709	0.00	0.00
DEC	11	54811	0.05625	0.14095	-0.572276	-0.414	1.469	0.00	0.00
DEC	12	54812	0.05252	0.14144	-0.572988	-0.207	1.289	0.00	0.00
DEC	13	54813	0.04870	0.14212	-0.573598	0.108	1.236	0.00	0.00
DEC	14	54814	0.04488	0.14303	-0.574233	0.393	1.328	0.00	0.00
DEC	15	54815	0.04108	0.14401	-0.575027	0.517	1.530	0.00	0.00
DEC	16	54816	0.03720	0.14511	-0.576058	0.407	1.765	0.00	0.00
DEC	17	54817	0.03328	0.14627	-0.577308	0.074	1.951	0.00	0.00
DEC	18	54818	0.02959	0.14750	-0.578707	-0.402	2.035	0.00	0.00
DEC	19	54819	0.02595	0.14883	-0.580136	-0.910	2.004	0.00	0.00
DEC	20	54820	0.02203	0.15002	-0.581490	-1.343	1.879	0.00	0.00
DEC	21	54821	0.01795	0.15105	-0.582695	-1.625	1.695	0.00	0.00
DEC	22	54822	0.01396	0.15212	-0.583703	-1.715	1.486	0.00	0.00
DEC	23	54823	0.01012	0.15341	-0.584506	-1.602	1.281	0.00	0.00
DEC	24	54824	0.00632	0.15473	-0.585119	-1.303	1.103	0.00	0.00

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

	Raw normal values					Uncertainties				
2008 (0 h UTC)	MJD	x "	y "	UT1-UTC s	dX 0.001"	dY	x 0.001"	y	UT1 0.0001s	dX 0.001"	dY
OCT 5	54744	0.25432	0.20978	-0.494664	0.074	-.212	0.01	0.01	0.01	0.02	0.03
OCT 10	54749	0.24235	0.19786	-0.497418	-.003	-.571	0.01	0.01	0.01	0.02	0.04
OCT 15	54754	0.22976	0.18473	-0.504533	-.112	-.322	0.01	0.01	0.01	0.03	0.06
OCT 20	54759	0.21621	0.17281	-0.510029	-.050	-.306	0.01	0.01	0.01	0.02	0.03
OCT 25	54764	0.20121	0.16254	-0.516982	-.087	-.463	0.01	0.01	0.02	0.05	0.09
OCT 30	54769	0.18844	0.15441	-0.524083	-.106	-.338	0.01	0.01	0.01	0.03	0.05
NOV 4	54774	0.17327	0.14777	-0.527591	-.063	-.315	0.01	0.01	0.01	0.02	0.03
NOV 9	54779	0.15770	0.14299	-0.532865	-.033	-.154	0.02	0.02	0.02	0.07	0.15
NOV 14	54784	0.13831	0.13792	-0.540317	-	-	0.02	0.02	0.02	-	-
NOV 19	54789	0.12056	0.13508	-0.545274	-	-	0.03	0.03	0.04	-	-
NOV 24	54794	0.11082	0.13663	-0.554175	-	-	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) 2008	MJD	DR s	OmegaR (microrad/s)
OCT 5	54744	0.00092	72.921 15069
OCT 10	54749	0.00095	15067
OCT 15	54754	0.00106	15057
OCT 20	54759	0.00137	15031
OCT 25	54764	0.00122	15044
OCT 30	54769	0.00125	15041

NOV 4 54774 0.00108 15056

5 - INFORMATION ON TIME SCALES
A leap second will be introduced in UTC on 31 December 2008
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 or 145.238.100.28