

INTERNATIONAL EARTH ROTATION SERVICE  
 EARTH ROTATION PARAMETERS  
 EOP (IERS) C 04

FORMAT(2X,A4,I3,2X,I5,2F9.5,F10.6,2X,F10.6,2X,2F9.5)

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Date	MJD	x	y	UT1-UTC	LOD	dPsi	dEpsilon
		"	"	s	s	"	"
(0h UTC)							
YEAR ==> 1983							
JAN	1	45335	-.20290	.25890	.227414	.002446	.00381 .00246
JAN	2	45336	-.20360	.26170	.224892	.002605	.00396 .00261
JAN	3	45337	-.20430	.26460	.222200	.002767	.00394 .00276
JAN	4	45338	-.20500	.26750	.219374	.002894	.00377 .00289
JAN	5	45339	-.20580	.27050	.216450	.002931	.00348 .00296
JAN	6	45340	-.20670	.27350	.213532	.002892	.00315 .00297
JAN	7	45341	-.20750	.27670	.210700	.002783	.00284 .00292
JAN	8	45342	-.20830	.27990	.207990	.002631	.00264 .00281
JAN	9	45343	-.20900	.28310	.205433	.002472	.00258 .00267
JAN	10	45344	-.20960	.28650	.203033	.002330	.00270 .00252
JAN	11	45345	-.21010	.28990	.200775	.002203	.00296 .00241
JAN	12	45346	-.21060	.29340	.198604	.002146	.00333 .00234
JAN	13	45347	-.21090	.29690	.196467	.002149	.00373 .00234
JAN	14	45348	-.21100	.30060	.194288	.002217	.00408 .00241
JAN	15	45349	-.21100	.30430	.192013	.002341	.00432 .00252
JAN	16	45350	-.21090	.30800	.189591	.002510	.00441 .00265
JAN	17	45351	-.21070	.31180	.186984	.002708	.00432 .00278
JAN	18	45352	-.21030	.31560	.184172	.002916	.00410 .00287
JAN	19	45353	-.20970	.31940	.181146	.003104	.00377 .00291
JAN	20	45354	-.20909	.32331	.177964	.003254	.00343 .00288
JAN	21	45355	-.20829	.32721	.174663	.003340	.00315 .00278
JAN	22	45356	-.20749	.33111	.171293	.003380	.00298 .00264
JAN	23	45357	-.20659	.33491	.167926	.003353	.00298 .00248
JAN	24	45358	-.20559	.33871	.164617	.003246	.00314 .00232
JAN	25	45359	-.20459	.34251	.161433	.003110	.00344 .00221
JAN	26	45360	-.20349	.34621	.158390	.002985	.00382 .00214
JAN	27	45361	-.20239	.34991	.155449	.002925	.00421 .00215
JAN	28	45362	-.20119	.35361	.152504	.002973	.00453 .00221
JAN	29	45363	-.19989	.35731	.149470	.003117	.00472 .00232
JAN	30	45364	-.19869	.36091	.146253	.003308	.00474 .00244
JAN	31	45365	-.19739	.36451	.142862	.003476	.00460 .00254
FEB	1	45366	-.19599	.36811	.139329	.003563	.00433 .00260
FEB	2	45367	-.19469	.37161	.135771	.003536	.00399 .00260
FEB	3	45368	-.19349	.37511	.132289	.003424	.00366 .00253
FEB	4	45369	-.19201	.37849	.128960	.003231	.00341 .00240
FEB	5	45370	-.19028	.38180	.125834	.003027	.00330 .00223
FEB	6	45371	-.18853	.38505	.122905	.002842	.00335 .00205
FEB	7	45372	-.18721	.38830	.120141	.002714	.00357 .00189
FEB	8	45373	-.18640	.39161	.117501	.002580	.00390 .00177

FEB	9	45374	-.18584	.39478	.114970	.002486	.00430	.00172
FEB	10	45375	-.18520	.39789	.112511	.002439	.00467	.00173
FEB	11	45376	-.18429	.40106	.110073	.002448	.00495	.00179
FEB	12	45377	-.18303	.40440	.107598	.002509	.00509	.00189
FEB	13	45378	-.18162	.40794	.105042	.002609	.00506	.00199
FEB	14	45379	-.18022	.41166	.102375	.002728	.00488	.00207
FEB	15	45380	-.17891	.41544	.099591	.002841	.00458	.00210
FEB	16	45381	-.17761	.41916	.096703	.002935	.00424	.00206
FEB	17	45382	-.17632	.42268	.093735	.003003	.00393	.00195
FEB	18	45383	-.17507	.42600	.090717	.003032	.00373	.00179
FEB	19	45384	-.17393	.42918	.087692	.003015	.00367	.00161
FEB	20	45385	-.17292	.43237	.084706	.002947	.00379	.00142
FEB	21	45386	-.17189	.43549	.081810	.002847	.00406	.00126
FEB	22	45387	-.17072	.43847	.079009	.002759	.00443	.00115
FEB	23	45388	-.16910	.44119	.076273	.002723	.00483	.00111
FEB	24	45389	-.16697	.44366	.073531	.002779	.00518	.00113
FEB	25	45390	-.16471	.44616	.070678	.002939	.00543	.00120
FEB	26	45391	-.16246	.44911	.067629	.003168	.00552	.00129
FEB	27	45392	-.16036	.45232	.064338	.003411	.00544	.00138
FEB	28	45393	-.15847	.45550	.060825	.003599	.00521	.00144
MAR	1	45394	-.15697	.45852	.057175	.003671	.00490	.00143
MAR	2	45395	-.15589	.46154	.053522	.003601	.00457	.00137
MAR	3	45396	-.15525	.46474	.050004	.003409	.00430	.00123
MAR	4	45397	-.15495	.46818	.046721	.003156	.00415	.00106
MAR	5	45398	-.15441	.47177	.043693	.002901	.00416	.00086
MAR	6	45399	-.15314	.47523	.040911	.002670	.00433	.00067
MAR	7	45400	-.15099	.47840	.038339	.002490	.00465	.00052
MAR	8	45401	-.14814	.48131	.035911	.002382	.00504	.00043
MAR	9	45402	-.14464	.48389	.033555	.002355	.00545	.00041
MAR	10	45403	-.14110	.48631	.031182	.002407	.00578	.00044
MAR	11	45404	-.13793	.48866	.028723	.002521	.00598	.00052
MAR	12	45405	-.13520	.49114	.026127	.002679	.00601	.00062
MAR	13	45406	-.13288	.49377	.023359	.002855	.00588	.00069
MAR	14	45407	-.13063	.49650	.020415	.003024	.00563	.00073
MAR	15	45408	-.12835	.49923	.017319	.003163	.00531	.00070
MAR	16	45409	-.12591	.50193	.014108	.003247	.00499	.00061
MAR	17	45410	-.12312	.50449	.010847	.003262	.00476	.00046
MAR	18	45411	-.12001	.50696	.007607	.003197	.00466	.00027
MAR	19	45412	-.11669	.50938	.004471	.003071	.00474	.00007
MAR	20	45413	-.11315	.51172	.001474	.002918	.00497	-.00010
MAR	21	45414	-.10947	.51403	-.001368	.002774	.00532	-.00023
MAR	22	45415	-.10566	.51640	-.004088	.002680	.00573	-.00030
MAR	23	45416	-.10180	.51891	-.006756	.002673	.00612	-.00030
MAR	24	45417	-.09797	.52157	-.009467	.002764	.00641	-.00024
MAR	25	45418	-.09421	.52435	-.012316	.002944	.00656	-.00015
MAR	26	45419	-.09046	.52723	-.015371	.003168	.00654	-.00005
MAR	27	45420	-.08657	.53005	-.018645	.003370	.00636	.00002
MAR	28	45421	-.08234	.53267	-.022084	.003497	.00607	.00004
MAR	29	45422	-.07787	.53499	-.025602	.003522	.00574	-.00001
MAR	30	45423	-.07325	.53687	-.029090	.003438	.00544	-.00012
MAR	31	45424	-.06870	.53813	-.032452	.003274	.00525	-.00028
APR	1	45425	-.06423	.53903	-.035627	.003073	.00521	-.00046
APR	2	45426	-.05998	.54035	-.038600	.002876	.00533	-.00065

APR	3	45427	-.05594	.54211	-.041391	.002709	.00561	-.00081
APR	4	45428	-.05204	.54402	-.044036	.002590	.00598	-.00091
APR	5	45429	-.04821	.54604	-.046592	.002532	.00639	-.00094
APR	6	45430	-.04443	.54807	-.049120	.002531	.00674	-.00091
APR	7	45431	-.04067	.54997	-.051674	.002578	.00698	-.00083
APR	8	45432	-.03676	.55166	-.054292	.002653	.00707	-.00073
APR	9	45433	-.03267	.55299	-.056989	.002748	.00698	-.00063
APR	10	45434	-.02833	.55405	-.059792	.002864	.00675	-.00057
APR	11	45435	-.02362	.55488	-.062712	.002974	.00643	-.00056
APR	12	45436	-.01850	.55555	-.065727	.003061	.00609	-.00061
APR	13	45437	-.01327	.55624	-.068811	.003103	.00581	-.00073
APR	14	45438	-.00816	.55702	-.071907	.003076	.00565	-.00089
APR	15	45439	-.00324	.55787	-.074940	.002978	.00566	-.00107
APR	16	45440	.00137	.55881	-.077847	.002837	.00582	-.00124
APR	17	45441	.00565	.55977	-.080611	.002696	.00612	-.00137
APR	18	45442	.00959	.56054	-.083253	.002584	.00650	-.00144
APR	19	45443	.01323	.56107	-.085805	.002521	.00688	-.00144
APR	20	45444	.01667	.56129	-.088327	.002532	.00719	-.00138
APR	21	45445	.02015	.56122	-.090899	.002628	.00736	-.00127
APR	22	45446	.02375	.56091	-.093603	.002783	.00737	-.00115
APR	23	45447	.02764	.56057	-.096468	.002946	.00721	-.00105
APR	24	45448	.03180	.56029	-.099479	.003067	.00692	-.00099
APR	25	45449	.03601	.55999	-.102572	.003106	.00657	-.00099
APR	26	45450	.04023	.55966	-.105654	.003051	.00622	-.00106
APR	27	45451	.04436	.55939	-.108642	.002908	.00595	-.00118
APR	28	45452	.04826	.55918	-.111451	.002695	.00582	-.00134
APR	29	45453	.05208	.55896	-.114028	.002445	.00586	-.00150
APR	30	45454	.05593	.55879	-.116348	.002215	.00605	-.00165
MAY	1	45455	.05972	.55861	-.118474	.002051	.00636	-.00174
MAY	2	45456	.06348	.55841	-.120471	.001963	.00672	-.00177
MAY	3	45457	.06717	.55807	-.122421	.001958	.00706	-.00174
MAY	4	45458	.07071	.55755	-.124409	.002010	.00730	-.00165
MAY	5	45459	.07412	.55690	-.126458	.002088	.00739	-.00152
MAY	6	45460	.07749	.55610	-.128598	.002202	.00731	-.00139
MAY	7	45461	.08083	.55514	-.130866	.002340	.00708	-.00129
MAY	8	45462	.08436	.55422	-.133277	.002489	.00673	-.00124
MAY	9	45463	.08828	.55344	-.135837	.002629	.00634	-.00124
MAY	10	45464	.09254	.55269	-.138520	.002732	.00598	-.00132
MAY	11	45465	.09708	.55196	-.141276	.002779	.00572	-.00144
MAY	12	45466	.10156	.55105	-.144048	.002748	.00562	-.00159
MAY	13	45467	.10600	.54998	-.146750	.002640	.00568	-.00174
MAY	14	45468	.11040	.54890	-.149317	.002493	.00588	-.00186
MAY	15	45469	.11475	.54791	-.151745	.002360	.00618	-.00192
MAY	16	45470	.11904	.54691	-.154060	.002280	.00651	-.00192
MAY	17	45471	.12327	.54593	-.156336	.002273	.00679	-.00185
MAY	18	45472	.12739	.54504	-.158640	.002343	.00695	-.00173
MAY	19	45473	.13150	.54422	-.161044	.002475	.00695	-.00159
MAY	20	45474	.13569	.54338	-.163594	.002617	.00678	-.00145
MAY	21	45475	.14001	.54230	-.166266	.002725	.00647	-.00135
MAY	22	45476	.14438	.54093	-.169020	.002774	.00606	-.00131
MAY	23	45477	.14881	.53933	-.171784	.002746	.00564	-.00132
MAY	24	45478	.15325	.53745	-.174482	.002648	.00527	-.00141
MAY	25	45479	.15755	.53520	-.177060	.002483	.00503	-.00153

MAY	26	45480	.16171	.53277	-.179438	.002266	.00494	-.00167
MAY	27	45481	.16573	.53020	-.181595	.002055	.00502	-.00180
MAY	28	45482	.16964	.52760	-.183560	.001888	.00523	-.00189
MAY	29	45483	.17325	.52526	-.185390	.001783	.00551	-.00192
MAY	30	45484	.17663	.52304	-.187146	.001737	.00579	-.00189
MAY	31	45485	.17990	.52081	-.188885	.001756	.00600	-.00179
JUN	1	45486	.18315	.51848	-.190676	.001839	.00608	-.00165
JUN	2	45487	.18657	.51591	-.192578	.001965	.00598	-.00150
JUN	3	45488	.18996	.51321	-.194612	.002101	.00572	-.00136
JUN	4	45489	.19326	.51028	-.196780	.002228	.00534	-.00127
JUN	5	45490	.19644	.50714	-.199062	.002338	.00488	-.00124
JUN	6	45491	.19932	.50396	-.201444	.002421	.00443	-.00127
JUN	7	45492	.20180	.50084	-.203887	.002454	.00406	-.00136
JUN	8	45493	.20375	.49787	-.206327	.002421	.00384	-.00149
JUN	9	45494	.20557	.49493	-.208703	.002322	.00377	-.00162
JUN	10	45495	.20753	.49194	-.210952	.002175	.00387	-.00173
JUN	11	45496	.20990	.48873	-.213052	.002022	.00407	-.00180
JUN	12	45497	.21272	.48545	-.215016	.001915	.00433	-.00180
JUN	13	45498	.21599	.48222	-.216915	.001902	.00457	-.00173
JUN	14	45499	.21965	.47917	-.218855	.001987	.00470	-.00161
JUN	15	45500	.22348	.47644	-.220916	.002137	.00469	-.00146
JUN	16	45501	.22725	.47400	-.223137	.002301	.00451	-.00130
JUN	17	45502	.23072	.47178	-.225507	.002426	.00417	-.00117
JUN	18	45503	.23395	.46956	-.227962	.002472	.00372	-.00110
JUN	19	45504	.23696	.46712	-.230420	.002428	.00323	-.00108
JUN	20	45505	.23968	.46416	-.232790	.002301	.00277	-.00113
JUN	21	45506	.24233	.46093	-.235002	.002115	.00242	-.00123
JUN	22	45507	.24502	.45749	-.237009	.001895	.00222	-.00136
JUN	23	45508	.24783	.45407	-.238794	.001674	.00218	-.00149
JUN	24	45509	.25062	.45074	-.240366	.001480	.00229	-.00158
JUN	25	45510	.25316	.44771	-.241770	.001339	.00250	-.00162
JUN	26	45511	.25539	.44488	-.243065	.001258	.00274	-.00160
JUN	27	45512	.25746	.44201	-.244308	.001237	.00292	-.00151
JUN	28	45513	.25947	.43896	-.245558	.001268	.00299	-.00138
JUN	29	45514	.26149	.43550	-.246859	.001325	.00290	-.00122
JUN	30	45515	.26352	.43169	-.248216	.001397	.00264	-.00106
JUL	1	45516	.26565	.42760	.750345	.001509	.00223	-.00095
JUL	2	45517	.26817	.42332	.748771	.001627	.00174	-.00089
JUL	3	45518	.27087	.41888	.747102	.001705	.00124	-.00089
JUL	4	45519	.27366	.41432	.745377	.001733	.00079	-.00096
JUL	5	45520	.27642	.40970	.743656	.001698	.00047	-.00108
JUL	6	45521	.27904	.40513	.742004	.001601	.00031	-.00121
JUL	7	45522	.28120	.40070	.740473	.001449	.00032	-.00133
JUL	8	45523	.28315	.39639	.739115	.001267	.00046	-.00141
JUL	9	45524	.28494	.39227	.737931	.001109	.00067	-.00143
JUL	10	45525	.28661	.38832	.736870	.001023	.00089	-.00138
JUL	11	45526	.28812	.38463	.735847	.001051	.00103	-.00127
JUL	12	45527	.28959	.38107	.734733	.001192	.00104	-.00113
JUL	13	45528	.29104	.37764	.733447	.001394	.00088	-.00097
JUL	14	45529	.29267	.37421	.731951	.001595	.00056	-.00082
JUL	15	45530	.29449	.37069	.730286	.001736	.00012	-.00073
JUL	16	45531	.29661	.36699	.728516	.001794	-.00039	-.00069
JUL	17	45532	.29903	.36308	.726733	.001751	-.00089	-.00072

JUL	18	45533	.30155	.35908	.725037	.001630	-.00130	-.00081
JUL	19	45534	.30405	.35503	.723483	.001482	-.00157	-.00093
JUL	20	45535	.30646	.35099	.722072	.001329	-.00167	-.00106
JUL	21	45536	.30859	.34714	.720815	.001184	-.00161	-.00118
JUL	22	45537	.31039	.34354	.719688	.001064	-.00143	-.00124
JUL	23	45538	.31188	.34007	.718668	.000991	-.00120	-.00124
JUL	24	45539	.31319	.33669	.717685	.000985	-.00100	-.00117
JUL	25	45540	.31431	.33325	.716680	.001037	-.00089	-.00105
JUL	26	45541	.31531	.32964	.715596	.001141	-.00093	-.00090
JUL	27	45542	.31627	.32593	.714388	.001275	-.00113	-.00074
JUL	28	45543	.31730	.32217	.713041	.001416	-.00149	-.00062
JUL	29	45544	.31857	.31838	.711560	.001552	-.00195	-.00054
JUL	30	45545	.31983	.31445	.709948	.001673	-.00245	-.00053
JUL	31	45546	.32076	.31029	.708229	.001761	-.00291	-.00058
AUG	1	45547	.32133	.30598	.706444	.001803	-.00326	-.00069
AUG	2	45548	.32176	.30152	.704644	.001791	-.00346	-.00082
AUG	3	45549	.32218	.29693	.702879	.001722	-.00349	-.00095
AUG	4	45550	.32272	.29228	.701212	.001598	-.00336	-.00105
AUG	5	45551	.32331	.28765	.699682	.001463	-.00314	-.00109
AUG	6	45552	.32384	.28295	.698267	.001379	-.00289	-.00107
AUG	7	45553	.32418	.27810	.696888	.001396	-.00269	-.00099
AUG	8	45554	.32434	.27333	.695437	.001527	-.00260	-.00085
AUG	9	45555	.32442	.26875	.693806	.001740	-.00267	-.00070
AUG	10	45556	.32436	.26466	.691954	.001967	-.00290	-.00055
AUG	11	45557	.32422	.26084	.689893	.002146	-.00328	-.00044
AUG	12	45558	.32405	.25704	.687703	.002225	-.00373	-.00039
AUG	13	45559	.32421	.25268	.685485	.002182	-.00420	-.00040
AUG	14	45560	.32429	.24821	.683374	.002026	-.00460	-.00047
AUG	15	45561	.32410	.24382	.681450	.001815	-.00487	-.00059
AUG	16	45562	.32347	.23973	.679744	.001612	-.00498	-.00073
AUG	17	45563	.32236	.23596	.678214	.001445	-.00492	-.00085
AUG	18	45564	.32124	.23215	.676835	.001307	-.00472	-.00093
AUG	19	45565	.32030	.22800	.675579	.001229	-.00445	-.00095
AUG	20	45566	.31938	.22351	.674357	.001227	-.00417	-.00091
AUG	21	45567	.31826	.21870	.673105	.001287	-.00396	-.00081
AUG	22	45568	.31675	.21360	.671768	.001397	-.00389	-.00066
AUG	23	45569	.31534	.20857	.670300	.001533	-.00398	-.00051
AUG	24	45570	.31434	.20393	.668698	.001669	-.00423	-.00037
AUG	25	45571	.31401	.19994	.666966	.001794	-.00460	-.00027
AUG	26	45572	.31366	.19615	.665120	.001890	-.00503	-.00024
AUG	27	45573	.31283	.19231	.663203	.001940	-.00544	-.00028
AUG	28	45574	.31128	.18831	.661257	.001947	-.00576	-.00037
AUG	29	45575	.30927	.18422	.659326	.001909	-.00594	-.00049
AUG	30	45576	.30690	.17997	.657454	.001845	-.00595	-.00062
AUG	31	45577	.30424	.17540	.655645	.001748	-.00580	-.00073
SEP	1	45578	.30166	.17063	.653959	.001617	-.00552	-.00080
SEP	2	45579	.29925	.16598	.652399	.001509	-.00520	-.00079
SEP	3	45580	.29706	.16163	.650913	.001475	-.00489	-.00073
SEP	4	45581	.29491	.15760	.649410	.001545	-.00468	-.00060
SEP	5	45582	.29268	.15389	.647788	.001721	-.00462	-.00045
SEP	6	45583	.29035	.15042	.645950	.001951	-.00472	-.00029
SEP	7	45584	.28783	.14715	.643894	.002174	-.00497	-.00016
SEP	8	45585	.28512	.14393	.641636	.002342	-.00533	-.00008

SEP	9	45586	.28230	.14066	.639259	.002383	-.00572	-.00007
SEP	10	45587	.27955	.13726	.636914	.002298	-.00606	-.00012
SEP	11	45588	.27712	.13347	.634693	.002121	-.00630	-.00022
SEP	12	45589	.27491	.12941	.632682	.001892	-.00637	-.00035
SEP	13	45590	.27285	.12521	.630902	.001664	-.00628	-.00047
SEP	14	45591	.27080	.12095	.629337	.001488	-.00603	-.00056
SEP	15	45592	.26860	.11695	.627903	.001390	-.00569	-.00060
SEP	16	45593	.26620	.11330	.626533	.001353	-.00532	-.00057
SEP	17	45594	.26362	.10996	.625176	.001376	-.00500	-.00048
SEP	18	45595	.26084	.10681	.623763	.001458	-.00479	-.00033
SEP	19	45596	.25781	.10371	.622246	.001579	-.00474	-.00017
SEP	20	45597	.25447	.10049	.620597	.001728	-.00485	-.00001
SEP	21	45598	.25088	.09709	.618792	.001881	-.00510	.00011
SEP	22	45599	.24707	.09359	.616844	.002007	-.00543	.00017
SEP	23	45600	.24319	.09013	.614793	.002089	-.00577	.00017
SEP	24	45601	.23941	.08684	.612687	.002113	-.00604	.00011
SEP	25	45602	.23581	.08383	.610588	.002075	-.00618	.00000
SEP	26	45603	.23236	.08112	.608554	.001984	-.00616	-.00012
SEP	27	45604	.22906	.07865	.606633	.001859	-.00597	-.00023
SEP	28	45605	.22592	.07630	.604837	.001745	-.00564	-.00030
SEP	29	45606	.22277	.07371	.603132	.001680	-.00524	-.00030
SEP	30	45607	.21947	.07073	.601456	.001690	-.00484	-.00024
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OCT	2	45609	.21251	.06397	.597823	.002007	-.00431	.00004
OCT	3	45610	.20903	.06068	.595680	.002282	-.00428	.00021
OCT	4	45611	.20560	.05773	.593255	.002563	-.00441	.00037
OCT	5	45612	.20227	.05527	.590575	.002777	-.00466	.00048
OCT	6	45613	.19908	.05325	.587739	.002869	-.00496	.00053
OCT	7	45614	.19587	.05137	.584884	.002806	-.00525	.00051
OCT	8	45615	.19253	.04943	.582167	.002612	-.00545	.00044
OCT	9	45616	.18901	.04729	.579683	.002352	-.00551	.00033
OCT	10	45617	.18528	.04503	.577465	.002087	-.00539	.00022
OCT	11	45618	.18139	.04278	.575493	.001861	-.00512	.00013
OCT	12	45619	.17747	.04069	.573720	.001717	-.00473	.00009
OCT	13	45620	.17356	.03875	.572034	.001689	-.00429	.00012
OCT	14	45621	.16968	.03688	.570319	.001714	-.00387	.00021
OCT	15	45622	.16585	.03506	.568586	.001745	-.00356	.00035
OCT	16	45623	.16199	.03338	.566814	.001809	-.00338	.00053
OCT	17	45624	.15810	.03203	.564959	.001904	-.00338	.00071
OCT	18	45625	.15415	.03101	.563005	.002019	-.00353	.00086
OCT	19	45626	.15004	.02999	.560926	.002142	-.00378	.00096
OCT	20	45627	.14567	.02868	.558733	.002247	-.00406	.00099
OCT	21	45628	.14103	.02687	.556453	.002305	-.00431	.00096
OCT	22	45629	.13630	.02480	.554146	.002301	-.00444	.00088
OCT	23	45630	.13160	.02282	.551874	.002239	-.00442	.00078
OCT	24	45631	.12703	.02125	.549683	.002141	-.00423	.00068
OCT	25	45632	.12255	.02020	.547599	.002030	-.00389	.00061
OCT	26	45633	.11804	.01955	.545615	.001950	-.00346	.00060
OCT	27	45634	.11337	.01911	.543677	.001940	-.00300	.00065
OCT	28	45635	.10848	.01872	.541705	.002018	-.00259	.00077
OCT	29	45636	.10350	.01836	.539606	.002192	-.00231	.00093
OCT	30	45637	.09861	.01801	.537294	.002447	-.00218	.00112
OCT	31	45638	.09396	.01769	.534701	.002736	-.00221	.00130

NOV	1	45639	.08972	.01737	.531829	.002994	-.00239	.00144
NOV	2	45640	.08586	.01702	.528742	.003157	-.00265	.00153
NOV	3	45641	.08210	.01665	.525556	.003193	-.00292	.00154
NOV	4	45642	.07815	.01627	.522397	.003108	-.00313	.00150
NOV	5	45643	.07375	.01586	.519371	.002916	-.00320	.00141
NOV	6	45644	.06882	.01554	.516578	.002660	-.00311	.00131
NOV	7	45645	.06362	.01528	.514046	.002398	-.00286	.00122
NOV	8	45646	.05836	.01518	.511763	.002173	-.00248	.00118
NOV	9	45647	.05365	.01517	.509674	.002038	-.00202	.00119
NOV	10	45648	.04954	.01517	.507662	.002007	-.00157	.00127
NOV	11	45649	.04587	.01509	.505638	.002047	-.00120	.00141
NOV	12	45650	.04229	.01502	.503551	.002131	-.00096	.00159
NOV	13	45651	.03835	.01523	.501363	.002254	-.00089	.00178
NOV	14	45652	.03386	.01577	.499039	.002393	-.00098	.00195
NOV	15	45653	.02899	.01652	.496580	.002522	-.00119	.00207
NOV	16	45654	.02425	.01736	.494005	.002621	-.00146	.00214
NOV	17	45655	.02000	.01817	.491353	.002672	-.00172	.00213
NOV	18	45656	.01610	.01902	.488682	.002659	-.00189	.00207
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NOV	23	45661	-.00509	.02389	.477038	.001947	-.00062	.00181
NOV	24	45662	-.00954	.02462	.475115	.001922	-.00019	.00191
NOV	25	45663	-.01401	.02537	.473161	.002001	.00013	.00206
NOV	26	45664	-.01845	.02620	.471085	.002160	.00031	.00224
NOV	27	45665	-.02281	.02712	.468829	.002357	.00031	.00243
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NOV	29	45667	-.03108	.02917	.463776	.002650	-.00009	.00268
NOV	30	45668	-.03497	.03030	.461111	.002665	-.00038	.00272
DEC	1	45669	-.03876	.03157	.458483	.002572	-.00063	.00269
DEC	2	45670	-.04255	.03301	.455998	.002398	-.00076	.00261
DEC	3	45671	-.04639	.03448	.453707	.002183	-.00075	.00251
DEC	4	45672	-.05044	.03588	.451633	.001965	-.00057	.00241
DEC	5	45673	-.05467	.03719	.449764	.001779	-.00024	.00234
DEC	6	45674	-.05894	.03836	.448052	.001647	.00018	.00232
DEC	7	45675	-.06313	.03943	.446444	.001570	.00062	.00237
DEC	8	45676	-.06702	.04043	.444888	.001561	.00100	.00248
DEC	9	45677	-.07047	.04151	.443304	.001619	.00126	.00264
DEC	10	45678	-.07354	.04276	.441637	.001719	.00136	.00282
DEC	11	45679	-.07640	.04436	.439858	.001848	.00130	.00299
DEC	12	45680	-.07914	.04629	.437940	.001991	.00109	.00312
DEC	13	45681	-.08180	.04855	.435884	.002122	.00080	.00319
DEC	14	45682	-.08455	.05094	.433707	.002222	.00050	.00319
DEC	15	45683	-.08745	.05333	.431457	.002267	.00027	.00314
DEC	16	45684	-.09045	.05557	.429194	.002249	.00016	.00303
DEC	17	45685	-.09350	.05759	.426980	.002159	.00021	.00292
DEC	18	45686	-.09665	.05950	.424893	.002009	.00043	.00281
DEC	19	45687	-.09987	.06149	.422968	.001842	.00078	.00275
DEC	20	45688	-.10307	.06374	.421198	.001712	.00119	.00274
DEC	21	45689	-.10613	.06633	.419515	.001670	.00161	.00280
DEC	22	45690	-.10892	.06898	.417822	.001734	.00194	.00292
DEC	23	45691	-.11146	.07151	.416014	.001895	.00213	.00307

DEC	24	45692	-.11387	.07380	.414016	.002108	.00216	.00324
DEC	25	45693	-.11635	.07571	.411802	.002320	.00202	.00338
DEC	26	45694	-.11891	.07735	.409401	.002473	.00176	.00348
DEC	27	45695	-.12149	.07893	.406890	.002528	.00144	.00352
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DEC	30	45698	-.12897	.08535	.399724	.002144	.00085	.00327
DEC	31	45699	-.13116	.08836	.397684	.001937	.00095	.00313