

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 ==> 1978								
JAN	1	43509	.00040	.02530	.649300	.003278	.02289	-.00165
JAN	2	43510	-.00340	.02560	.645991	.003313	.02256	-.00167
JAN	3	43511	-.00710	.02590	.642677	.003317	.02229	-.00175
JAN	4	43512	-.01080	.02640	.639381	.003271	.02216	-.00188
JAN	5	43513	-.01450	.02690	.636147	.003201	.02219	-.00202
JAN	6	43514	-.01820	.02750	.632991	.003121	.02238	-.00215
JAN	7	43515	-.02190	.02820	.629899	.003062	.02271	-.00223
JAN	8	43516	-.02560	.02890	.626842	.003060	.02309	-.00225
JAN	9	43517	-.02930	.02970	.623759	.003125	.02347	-.00221
JAN	10	43518	-.03290	.03060	.620589	.003217	.02376	-.00212
JAN	11	43519	-.03660	.03150	.617323	.003311	.02391	-.00198
JAN	12	43520	-.04030	.03250	.613969	.003380	.02389	-.00184
JAN	13	43521	-.04400	.03360	.610583	.003382	.02372	-.00173
JAN	14	43522	-.04770	.03470	.607224	.003335	.02342	-.00166
JAN	15	43523	-.05140	.03580	.603936	.003246	.02307	-.00165
JAN	16	43524	-.05520	.03700	.600750	.003134	.02274	-.00171
JAN	17	43525	-.05890	.03830	.597669	.003017	.02251	-.00183
JAN	18	43526	-.06260	.03960	.594723	.002899	.02242	-.00198
JAN	19	43527	-.06640	.04100	.591864	.002801	.02250	-.00214
JAN	20	43528	-.07009	.04241	.589100	.002744	.02273	-.00227
JAN	21	43529	-.07389	.04381	.586373	.002715	.02307	-.00236
JAN	22	43530	-.07759	.04531	.583668	.002714	.02346	-.00238
JAN	23	43531	-.08139	.04691	.580934	.002760	.02380	-.00233
JAN	24	43532	-.08509	.04841	.578136	.002826	.02405	-.00224
JAN	25	43533	-.08889	.05001	.575263	.002924	.02414	-.00212
JAN	26	43534	-.09259	.05171	.572286	.003032	.02406	-.00200
JAN	27	43535	-.09639	.05331	.569201	.003135	.02383	-.00191
JAN	28	43536	-.10009	.05501	.566022	.003228	.02350	-.00188
JAN	29	43537	-.10379	.05671	.562766	.003288	.02315	-.00192
JAN	30	43538	-.10749	.05841	.559470	.003307	.02284	-.00202
JAN	31	43539	-.11109	.06021	.556164	.003287	.02265	-.00217
FEB	1	43540	-.11469	.06191	.552895	.003249	.02262	-.00234
FEB	2	43541	-.11829	.06371	.549670	.003200	.02275	-.00251
FEB	3	43542	-.12189	.06551	.546489	.003166	.02303	-.00265
FEB	4	43543	-.12539	.06741	.543315	.003181	.02339	-.00272
FEB	5	43544	-.12879	.06921	.540109	.003251	.02377	-.00274
FEB	6	43545	-.13219	.07111	.536795	.003392	.02409	-.00269
FEB	7	43546	-.13559	.07301	.533326	.003548	.02428	-.00260
FEB	8	43547	-.13889	.07491	.529694	.003688	.02432	-.00249

FEB	9	43548	-.14219	.07681	.525955	.003789	.02419	-.00240
FEB	10	43549	-.14529	.07881	.522149	.003821	.02392	-.00234
FEB	11	43550	-.14849	.08071	.518333	.003792	.02358	-.00235
FEB	12	43551	-.15149	.08271	.514579	.003712	.02323	-.00242
FEB	13	43552	-.15449	.08481	.510926	.003615	.02296	-.00255
FEB	14	43553	-.15739	.08681	.507358	.003512	.02282	-.00273
FEB	15	43554	-.16029	.08891	.503895	.003437	.02285	-.00292
FEB	16	43555	-.16309	.09101	.500483	.003381	.02304	-.00309
FEB	17	43556	-.16579	.09321	.497111	.003362	.02336	-.00322
FEB	18	43557	-.16849	.09541	.493747	.003375	.02374	-.00329
FEB	19	43558	-.17109	.09761	.490348	.003428	.02412	-.00329
FEB	20	43559	-.17359	.09991	.486878	.003507	.02440	-.00324
FEB	21	43560	-.17609	.10221	.483323	.003583	.02455	-.00315
FEB	22	43561	-.17849	.10451	.479706	.003654	.02454	-.00306
FEB	23	43562	-.18089	.10691	.476016	.003726	.02436	-.00298
FEB	24	43563	-.18319	.10941	.472249	.003781	.02407	-.00296
FEB	25	43564	-.18549	.11191	.468455	.003802	.02372	-.00299
FEB	26	43565	-.18768	.11442	.464672	.003775	.02340	-.00310
FEB	27	43566	-.18988	.11702	.460929	.003702	.02317	-.00325
FEB	28	43567	-.19198	.11972	.457281	.003603	.02310	-.00345
MAR	1	43568	-.19398	.12242	.453729	.003490	.02319	-.00364
MAR	2	43569	-.19598	.12522	.450296	.003389	.02343	-.00381
MAR	3	43570	-.19798	.12802	.446950	.003323	.02379	-.00393
MAR	4	43571	-.19988	.13092	.443645	.003308	.02418	-.00398
MAR	5	43572	-.20168	.13382	.440317	.003356	.02454	-.00397
MAR	6	43573	-.20348	.13682	.436918	.003435	.02479	-.00391
MAR	7	43574	-.20528	.13982	.433433	.003543	.02489	-.00382
MAR	8	43575	-.20698	.14292	.429841	.003633	.02482	-.00373
MAR	9	43576	-.20858	.14602	.426188	.003665	.02461	-.00367
MAR	10	43577	-.21018	.14922	.422534	.003629	.02429	-.00367
MAR	11	43578	-.21168	.15242	.418939	.003545	.02395	-.00373
MAR	12	43579	-.21308	.15572	.415457	.003415	.02366	-.00386
MAR	13	43580	-.21448	.15902	.412109	.003287	.02349	-.00403
MAR	14	43581	-.21578	.16242	.408878	.003170	.02347	-.00423
MAR	15	43582	-.21708	.16582	.405762	.003068	.02362	-.00442
MAR	16	43583	-.21818	.16922	.402721	.003010	.02392	-.00458
MAR	17	43584	-.21928	.17272	.399728	.002992	.02430	-.00467
MAR	18	43585	-.22038	.17622	.396722	.003027	.02469	-.00470
MAR	19	43586	-.22128	.17982	.393671	.003083	.02503	-.00467
MAR	20	43587	-.22218	.18342	.390535	.003180	.02523	-.00460
MAR	21	43588	-.22298	.18702	.387292	.003300	.02528	-.00450
MAR	22	43589	-.22368	.19072	.383923	.003429	.02516	-.00442
MAR	23	43590	-.22438	.19452	.380438	.003550	.02490	-.00438
MAR	24	43591	-.22498	.19822	.376841	.003635	.02457	-.00439
MAR	25	43592	-.22548	.20202	.373173	.003685	.02424	-.00447
MAR	26	43593	-.22588	.20592	.369490	.003670	.02399	-.00461
MAR	27	43594	-.22628	.20972	.365849	.003605	.02386	-.00480
MAR	28	43595	-.22658	.21362	.362289	.003511	.02390	-.00499
MAR	29	43596	-.22678	.21762	.358836	.003409	.02410	-.00516
MAR	30	43597	-.22688	.22162	.355460	.003348	.02443	-.00530
MAR	31	43598	-.22698	.22562	.352123	.003326	.02482	-.00536
APR	1	43599	-.22698	.22962	.348781	.003366	.02520	-.00537
APR	2	43600	-.22698	.23372	.345386	.003439	.02549	-.00531

APR	3	43601	-.22687	.23783	.341894	.003544	.02565	-.00522
APR	4	43602	-.22667	.24203	.338302	.003640	.02563	-.00512
APR	5	43603	-.22647	.24613	.334628	.003699	.02545	-.00504
APR	6	43604	-.22627	.25033	.330922	.003701	.02516	-.00500
APR	7	43605	-.22597	.25453	.327245	.003653	.02481	-.00503
APR	8	43606	-.22557	.25883	.323642	.003547	.02449	-.00513
APR	9	43607	-.22517	.26313	.320158	.003418	.02426	-.00528
APR	10	43608	-.22477	.26733	.316805	.003289	.02418	-.00545
APR	11	43609	-.22427	.27163	.313583	.003178	.02427	-.00564
APR	12	43610	-.22377	.27603	.310449	.003086	.02451	-.00579
APR	13	43611	-.22317	.28033	.307388	.003042	.02486	-.00589
APR	14	43612	-.22257	.28463	.304352	.003038	.02524	-.00593
APR	15	43613	-.22197	.28893	.301309	.003066	.02558	-.00589
APR	16	43614	-.22127	.29323	.298208	.003139	.02582	-.00581
APR	17	43615	-.22057	.29753	.295021	.003230	.02590	-.00570
APR	18	43616	-.21977	.30183	.291744	.003336	.02581	-.00559
APR	19	43617	-.21907	.30613	.288359	.003433	.02557	-.00551
APR	20	43618	-.21827	.31033	.284881	.003517	.02523	-.00549
APR	21	43619	-.21737	.31453	.281334	.003568	.02487	-.00553
APR	22	43620	-.21657	.31863	.277752	.003569	.02455	-.00563
APR	23	43621	-.21567	.32273	.274214	.003504	.02435	-.00578
APR	24	43622	-.21467	.32683	.270758	.003403	.02431	-.00595
APR	25	43623	-.21377	.33083	.267413	.003276	.02443	-.00611
APR	26	43624	-.21277	.33473	.264190	.003176	.02469	-.00624
APR	27	43625	-.21177	.33863	.261057	.003110	.02504	-.00630
APR	28	43626	-.21067	.34243	.257952	.003108	.02539	-.00630
APR	29	43627	-.20967	.34613	.254826	.003140	.02568	-.00624
APR	30	43628	-.20857	.34973	.251652	.003205	.02585	-.00613
MAY	1	43629	-.20747	.35333	.248425	.003268	.02584	-.00600
MAY	2	43630	-.20627	.35673	.245136	.003314	.02567	-.00589
MAY	3	43631	-.20507	.36013	.241813	.003326	.02537	-.00581
MAY	4	43632	-.20387	.36343	.238500	.003298	.02499	-.00580
MAY	5	43633	-.20267	.36653	.235240	.003214	.02460	-.00584
MAY	6	43634	-.20147	.36963	.232081	.003109	.02429	-.00595
MAY	7	43635	-.20017	.37263	.229024	.002995	.02411	-.00610
MAY	8	43636	-.19887	.37553	.226088	.002891	.02410	-.00626
MAY	9	43637	-.19747	.37833	.223243	.002812	.02424	-.00639
MAY	10	43638	-.19606	.38114	.220461	.002757	.02451	-.00649
MAY	11	43639	-.19466	.38374	.217706	.002749	.02483	-.00652
MAY	12	43640	-.19326	.38634	.214939	.002781	.02514	-.00648
MAY	13	43641	-.19176	.38884	.212133	.002838	.02536	-.00639
MAY	14	43642	-.19016	.39124	.209253	.002925	.02544	-.00626
MAY	15	43643	-.18856	.39364	.206274	.003031	.02535	-.00612
MAY	16	43644	-.18696	.39594	.203177	.003144	.02509	-.00600
MAY	17	43645	-.18526	.39814	.199979	.003251	.02472	-.00593
MAY	18	43646	-.18356	.40034	.196680	.003329	.02429	-.00592
MAY	19	43647	-.18166	.40244	.193333	.003371	.02389	-.00598
MAY	20	43648	-.17986	.40454	.189955	.003364	.02359	-.00609
MAY	21	43649	-.17786	.40654	.186622	.003307	.02343	-.00623
MAY	22	43650	-.17586	.40854	.183362	.003206	.02343	-.00638
MAY	23	43651	-.17376	.41044	.180200	.003114	.02359	-.00649
MAY	24	43652	-.17166	.41244	.177123	.003044	.02385	-.00655
MAY	25	43653	-.16946	.41424	.174094	.003027	.02414	-.00655

MAY	26	43654	-.16716	.41614	.171043	.003071	.02439	-.00648
MAY	27	43655	-.16476	.41794	.167942	.003132	.02453	-.00636
MAY	28	43656	-.16226	.41974	.164789	.003180	.02452	-.00621
MAY	29	43657	-.15966	.42154	.161602	.003190	.02433	-.00607
MAY	30	43658	-.15706	.42324	.158415	.003166	.02399	-.00595
MAY	31	43659	-.15436	.42494	.155286	.003086	.02356	-.00589
JUN	1	43660	-.15156	.42664	.152258	.002965	.02310	-.00590
JUN	2	43661	-.14866	.42834	.149376	.002805	.02268	-.00597
JUN	3	43662	-.14576	.43004	.146650	.002644	.02239	-.00608
JUN	4	43663	-.14266	.43164	.144087	.002477	.02225	-.00622
JUN	5	43664	-.13956	.43324	.141678	.002342	.02227	-.00635
JUN	6	43665	-.13646	.43484	.139390	.002239	.02243	-.00644
JUN	7	43666	-.13316	.43644	.137199	.002171	.02268	-.00647
JUN	8	43667	-.12986	.43804	.135046	.002131	.02293	-.00644
JUN	9	43668	-.12656	.43964	.132917	.002135	.02312	-.00634
JUN	10	43669	-.12316	.44124	.130755	.002169	.02317	-.00620
JUN	11	43670	-.11976	.44274	.128559	.002224	.02307	-.00604
JUN	12	43671	-.11626	.44434	.126305	.002288	.02279	-.00590
JUN	13	43672	-.11276	.44584	.123976	.002359	.02238	-.00579
JUN	14	43673	-.10926	.44744	.121591	.002406	.02190	-.00575
JUN	15	43674	-.10575	.44895	.119172	.002438	.02141	-.00577
JUN	16	43675	-.10215	.45045	.116728	.002434	.02100	-.00585
JUN	17	43676	-.09865	.45195	.114315	.002399	.02072	-.00597
JUN	18	43677	-.09505	.45345	.111950	.002317	.02061	-.00611
JUN	19	43678	-.09155	.45495	.109679	.002228	.02066	-.00622
JUN	20	43679	-.08795	.45645	.107490	.002155	.02083	-.00629
JUN	21	43680	-.08445	.45795	.105352	.002137	.02105	-.00629
JUN	22	43681	-.08085	.45945	.103206	.002165	.02127	-.00623
JUN	23	43682	-.07735	.46085	.100998	.002244	.02139	-.00612
JUN	24	43683	-.07385	.46225	.098705	.002330	.02137	-.00596
JUN	25	43684	-.07035	.46375	.096349	.002396	.02118	-.00580
JUN	26	43685	-.06685	.46515	.093942	.002410	.02083	-.00567
JUN	27	43686	-.06345	.46645	.091538	.002367	.02036	-.00558
JUN	28	43687	-.05995	.46785	.089211	.002288	.01984	-.00556
JUN	29	43688	-.05655	.46915	.086980	.002170	.01935	-.00560
JUN	30	43689	-.05315	.47045	.084875	.002040	.01896	-.00569
JUL	1	43690	-.04965	.47175	.082897	.001916	.01872	-.00582
JUL	2	43691	-.04625	.47295	.081035	.001812	.01864	-.00595
JUL	3	43692	-.04275	.47415	.079254	.001737	.01872	-.00605
JUL	4	43693	-.03935	.47535	.077538	.001699	.01890	-.00610
JUL	5	43694	-.03585	.47645	.075853	.001679	.01911	-.00608
JUL	6	43695	-.03235	.47755	.074170	.001693	.01929	-.00600
JUL	7	43696	-.02885	.47855	.072456	.001737	.01935	-.00587
JUL	8	43697	-.02535	.47955	.070678	.001803	.01926	-.00571
JUL	9	43698	-.02175	.48055	.068836	.001879	.01900	-.00555
JUL	10	43699	-.01815	.48145	.066919	.001955	.01860	-.00543
JUL	11	43700	-.01445	.48225	.064942	.002007	.01810	-.00536
JUL	12	43701	-.01075	.48315	.062914	.002046	.01757	-.00536
JUL	13	43702	-.00705	.48385	.060862	.002045	.01710	-.00543
JUL	14	43703	-.00325	.48455	.058825	.002021	.01675	-.00554
JUL	15	43704	.00055	.48525	.056839	.001956	.01656	-.00567
JUL	16	43705	.00445	.48575	.054929	.001873	.01654	-.00579
JUL	17	43706	.00835	.48635	.053082	.001804	.01665	-.00588

JUL	18	43707	.01235	.48675	.051301	.001767	.01685	-.00590
JUL	19	43708	.01635	.48715	.049529	.001795	.01706	-.00587
JUL	20	43709	.02035	.48745	.047702	.001875	.01721	-.00577
JUL	21	43710	.02445	.48775	.045769	.001983	.01723	-.00562
JUL	22	43711	.02856	.48786	.043733	.002086	.01708	-.00547
JUL	23	43712	.03266	.48796	.041613	.002138	.01678	-.00532
JUL	24	43713	.03676	.48796	.039470	.002130	.01634	-.00522
JUL	25	43714	.04096	.48786	.037376	.002056	.01583	-.00517
JUL	26	43715	.04516	.48776	.035383	.001929	.01532	-.00520
JUL	27	43716	.04936	.48746	.033515	.001804	.01490	-.00528
JUL	28	43717	.05356	.48716	.031771	.001684	.01461	-.00540
JUL	29	43718	.05776	.48676	.030150	.001583	.01449	-.00554
JUL	30	43719	.06186	.48626	.028604	.001513	.01453	-.00565
JUL	31	43720	.06606	.48566	.027101	.001491	.01469	-.00572
AUG	1	43721	.07016	.48506	.025609	.001508	.01492	-.00573
AUG	2	43722	.07426	.48426	.024082	.001563	.01513	-.00567
AUG	3	43723	.07826	.48346	.022483	.001649	.01526	-.00556
AUG	4	43724	.08226	.48256	.020775	.001759	.01525	-.00541
AUG	5	43725	.08626	.48156	.018950	.001892	.01506	-.00525
AUG	6	43726	.09006	.48046	.017000	.002016	.01473	-.00512
AUG	7	43727	.09396	.47926	.014923	.002128	.01428	-.00504
AUG	8	43728	.09766	.47806	.012745	.002225	.01379	-.00502
AUG	9	43729	.10136	.47676	.010494	.002280	.01333	-.00507
AUG	10	43730	.10496	.47536	.008183	.002312	.01297	-.00517
AUG	11	43731	.10856	.47386	.005878	.002306	.01276	-.00530
AUG	12	43732	.11196	.47236	.003587	.002274	.01272	-.00543
AUG	13	43733	.11536	.47076	.001329	.002243	.01284	-.00554
AUG	14	43734	.11866	.46906	-.000917	.002248	.01307	-.00559
AUG	15	43735	.12196	.46736	-.003172	.002279	.01333	-.00557
AUG	16	43736	.12516	.46556	-.005506	.002376	.01355	-.00549
AUG	17	43737	.12826	.46376	-.007940	.002508	.01367	-.00537
AUG	18	43738	.13126	.46186	-.010516	.002651	.01363	-.00521
AUG	19	43739	.13426	.45996	-.013232	.002763	.01343	-.00506
AUG	20	43740	.13716	.45796	-.016019	.002806	.01308	-.00494
AUG	21	43741	.13996	.45596	-.018819	.002771	.01265	-.00488
AUG	22	43742	.14276	.45386	-.021537	.002668	.01219	-.00489
AUG	23	43743	.14546	.45186	-.024132	.002529	.01179	-.00495
AUG	24	43744	.14816	.44966	-.026603	.002392	.01152	-.00507
AUG	25	43745	.15076	.44756	-.028923	.002271	.01141	-.00520
AUG	26	43746	.15336	.44536	-.031145	.002171	.01147	-.00532
AUG	27	43747	.15597	.44307	-.033287	.002119	.01167	-.00541
AUG	28	43748	.15847	.44087	-.035398	.002109	.01196	-.00544
AUG	29	43749	.16087	.43857	-.037520	.002141	.01225	-.00540
AUG	30	43750	.16337	.43627	-.039693	.002199	.01249	-.00530
AUG	31	43751	.16577	.43397	-.041929	.002284	.01260	-.00516
SEP	1	43752	.16807	.43167	-.044257	.002386	.01254	-.00500
SEP	2	43753	.17047	.42927	-.046692	.002482	.01233	-.00486
SEP	3	43754	.17277	.42697	-.049217	.002569	.01199	-.00475
SEP	4	43755	.17497	.42457	-.051822	.002625	.01158	-.00471
SEP	5	43756	.17727	.42217	-.054456	.002646	.01118	-.00473
SEP	6	43757	.17947	.41977	-.057104	.002628	.01087	-.00481
SEP	7	43758	.18167	.41727	-.059711	.002574	.01069	-.00493
SEP	8	43759	.18387	.41487	-.062254	.002490	.01068	-.00506

SEP	9	43760	.18597	.41237	-.064701	.002406	.01084	-.00517
SEP	10	43761	.18807	.40997	-.067075	.002344	.01112	-.00524
SEP	11	43762	.19017	.40747	-.069405	.002334	.01146	-.00524
SEP	12	43763	.19227	.40497	-.071752	.002368	.01179	-.00518
SEP	13	43764	.19427	.40237	-.074168	.002462	.01203	-.00506
SEP	14	43765	.19617	.39987	-.076686	.002587	.01213	-.00490
SEP	15	43766	.19817	.39727	-.079341	.002737	.01207	-.00474
SEP	16	43767	.20007	.39467	-.082136	.002831	.01185	-.00460
SEP	17	43768	.20187	.39207	-.084989	.002862	.01152	-.00451
SEP	18	43769	.20377	.38947	-.087843	.002843	.01115	-.00448
SEP	19	43770	.20547	.38677	-.090646	.002765	.01082	-.00452
SEP	20	43771	.20727	.38407	-.093354	.002658	.01059	-.00461
SEP	21	43772	.20897	.38137	-.095952	.002554	.01051	-.00473
SEP	22	43773	.21057	.37857	-.098459	.002474	.01060	-.00485
SEP	23	43774	.21217	.37577	-.100914	.002442	.01085	-.00494
SEP	24	43775	.21377	.37297	-.103355	.002451	.01120	-.00498
SEP	25	43776	.21527	.37007	-.105820	.002495	.01159	-.00495
SEP	26	43777	.21677	.36707	-.108349	.002569	.01194	-.00486
SEP	27	43778	.21817	.36407	-.110971	.002686	.01218	-.00472
SEP	28	43779	.21947	.36107	-.113720	.002815	.01226	-.00455
SEP	29	43780	.22087	.35797	-.116613	.002964	.01219	-.00438
SEP	30	43781	.22207	.35487	-.119647	.003089	.01196	-.00425
OCT	1	43782	.22327	.35167	-.122797	.003198	.01165	-.00417
OCT	2	43783	.22447	.34847	-.126032	.003278	.01132	-.00416
OCT	3	43784	.22558	.34518	-.129329	.003296	.01105	-.00421
OCT	4	43785	.22658	.34188	-.132611	.003260	.01091	-.00431
OCT	5	43786	.22758	.33848	-.135847	.003201	.01092	-.00442
OCT	6	43787	.22848	.33498	-.139009	.003120	.01111	-.00453
OCT	7	43788	.22938	.33148	-.142093	.003046	.01143	-.00459
OCT	8	43789	.23018	.32798	-.145124	.003010	.01184	-.00460
OCT	9	43790	.23088	.32438	-.148143	.003027	.01226	-.00454
OCT	10	43791	.23158	.32078	-.151195	.003094	.01261	-.00442
OCT	11	43792	.23218	.31708	-.154345	.003199	.01283	-.00426
OCT	12	43793	.23268	.31338	-.157597	.003304	.01289	-.00408
OCT	13	43794	.23318	.30958	-.160944	.003397	.01279	-.00391
OCT	14	43795	.23358	.30578	-.164363	.003427	.01256	-.00379
OCT	15	43796	.23388	.30198	-.167776	.003396	.01226	-.00373
OCT	16	43797	.23418	.29808	-.171122	.003298	.01197	-.00373
OCT	17	43798	.23438	.29428	-.174348	.003144	.01176	-.00379
OCT	18	43799	.23458	.29038	-.177416	.002983	.01170	-.00389
OCT	19	43800	.23468	.28648	-.180327	.002844	.01179	-.00400
OCT	20	43801	.23468	.28268	-.183105	.002726	.01205	-.00408
OCT	21	43802	.23468	.27878	-.185804	.002658	.01244	-.00412
OCT	22	43803	.23458	.27498	-.188446	.002632	.01288	-.00410
OCT	23	43804	.23448	.27108	-.191082	.002649	.01330	-.00401
OCT	24	43805	.23418	.26728	-.193756	.002702	.01364	-.00387
OCT	25	43806	.23398	.26348	-.196495	.002783	.01382	-.00369
OCT	26	43807	.23368	.25978	-.199326	.002879	.01385	-.00350
OCT	27	43808	.23328	.25598	-.202255	.002978	.01371	-.00334
OCT	28	43809	.23288	.25238	-.205268	.003067	.01347	-.00323
OCT	29	43810	.23238	.24868	-.208372	.003135	.01318	-.00318
OCT	30	43811	.23188	.24508	-.211538	.003169	.01293	-.00320
OCT	31	43812	.23138	.24158	-.214706	.003170	.01277	-.00327

NOV	1	43813	.23078	.23808	-.217854	.003119	.01277	-.00337
NOV	2	43814	.23018	.23468	-.220935	.003050	.01294	-.00347
NOV	3	43815	.22958	.23128	-.223944	.002971	.01326	-.00354
NOV	4	43816	.22888	.22798	-.226888	.002933	.01368	-.00355
NOV	5	43817	.22818	.22468	-.229816	.002934	.01413	-.00350
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NOV	8	43820	.22589	.21529	-.238963	.003208	.01497	-.00304
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NOV	11	43823	.22339	.20619	-.248935	.003377	.01450	-.00261
NOV	12	43824	.22249	.20329	-.252299	.003329	.01422	-.00258
NOV	13	43825	.22159	.20039	-.255577	.003231	.01399	-.00262
NOV	14	43826	.22059	.19749	-.258752	.003117	.01388	-.00270
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NOV	16	43828	.21869	.19179	-.264742	.002888	.01416	-.00289
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NOV	18	43830	.21659	.18619	-.270403	.002799	.01495	-.00293
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NOV	21	43833	.21309	.17779	-.278941	.002943	.01600	-.00255
NOV	22	43834	.21189	.17499	-.281926	.003031	.01607	-.00236
NOV	23	43835	.21059	.17229	-.285003	.003126	.01599	-.00219
NOV	24	43836	.20929	.16949	-.288176	.003207	.01577	-.00206
NOV	25	43837	.20799	.16669	-.291423	.003274	.01548	-.00199
NOV	26	43838	.20659	.16399	-.294726	.003327	.01519	-.00198
NOV	27	43839	.20509	.16119	-.298057	.003326	.01499	-.00204
NOV	28	43840	.20359	.15849	-.301365	.003295	.01493	-.00214
NOV	29	43841	.20209	.15579	-.304635	.003230	.01503	-.00224
NOV	30	43842	.20049	.15309	-.307810	.003139	.01528	-.00232
DEC	1	43843	.19889	.15039	-.310918	.003071	.01566	-.00236
DEC	2	43844	.19729	.14779	-.313967	.003036	.01610	-.00234
DEC	3	43845	.19559	.14519	-.317007	.003065	.01651	-.00225
DEC	4	43846	.19389	.14259	-.320102	.003129	.01683	-.00211
DEC	5	43847	.19219	.13999	-.323272	.003211	.01700	-.00193
DEC	6	43848	.19039	.13749	-.326521	.003289	.01700	-.00175
DEC	7	43849	.18859	.13499	-.329828	.003317	.01685	-.00159
DEC	8	43850	.18679	.13249	-.333135	.003292	.01658	-.00149
DEC	9	43851	.18489	.13009	-.336404	.003225	.01627	-.00145
DEC	10	43852	.18299	.12769	-.339572	.003115	.01599	-.00148
DEC	11	43853	.18119	.12539	-.342615	.002969	.01581	-.00156
DEC	12	43854	.17929	.12309	-.345508	.002828	.01578	-.00167
DEC	13	43855	.17729	.12089	-.348266	.002692	.01592	-.00178
DEC	14	43856	.17539	.11869	-.350903	.002596	.01621	-.00186
DEC	15	43857	.17340	.11650	-.353461	.002528	.01660	-.00189
DEC	16	43858	.17150	.11440	-.355980	.002507	.01702	-.00185
DEC	17	43859	.16950	.11230	-.358498	.002522	.01739	-.00175
DEC	18	43860	.16750	.11030	-.361036	.002567	.01764	-.00160
DEC	19	43861	.16550	.10830	-.363631	.002634	.01774	-.00143
DEC	20	43862	.16360	.10630	-.366308	.002712	.01767	-.00127
DEC	21	43863	.16160	.10440	-.369064	.002798	.01745	-.00114
DEC	22	43864	.15950	.10250	-.371890	.002874	.01715	-.00107
DEC	23	43865	.15750	.10060	-.374804	.002940	.01682	-.00107

DEC	24	43866	.15550	.09880	-.377763	.002971	.01655	-.00113
DEC	25	43867	.15350	.09700	-.380748	.002993	.01640	-.00124
DEC	26	43868	.15140	.09520	-.383729	.002973	.01641	-.00136
DEC	27	43869	.14940	.09340	-.386688	.002942	.01659	-.00148
DEC	28	43870	.14730	.09170	-.389603	.002911	.01690	-.00156
DEC	29	43871	.14520	.09000	-.392510	.002909	.01729	-.00158
DEC	30	43872	.14310	.08830	-.395439	.002959	.01769	-.00154
DEC	31	43873	.14090	.08660	-.398446	.003062	.01801	-.00144