

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)

Date	MJD	x	y	UT1-UTC	LOD	dPsi	dEpsilon	
		"	"	s	s	"	"	
(0h UTC)								
YEAR ==> 1991								
JAN	1	48257	.02259	.07015	.618664	.001939	-.00770	.00030
JAN	2	48258	.01890	.07070	.616632	.002151	-.00720	.00039
JAN	3	48259	.01546	.07165	.614359	.002405	-.00692	.00041
JAN	4	48260	.01252	.07269	.611844	.002613	-.00690	.00026
JAN	5	48261	.00989	.07377	.609170	.002709	-.00686	.00019
JAN	6	48262	.00709	.07510	.606463	.002683	-.00684	.00009
JAN	7	48263	.00421	.07645	.603833	.002565	-.00690	.00002
JAN	8	48264	.00119	.07770	.601348	.002399	-.00706	-.00001
JAN	9	48265	-.00197	.07872	.599040	.002214	-.00734	-.00011
JAN	10	48266	-.00534	.07974	.596915	.002042	-.00790	-.00014
JAN	11	48267	-.00893	.08088	.594946	.001906	-.00838	-.00018
JAN	12	48268	-.01268	.08214	.593085	.001815	-.00820	-.00011
JAN	13	48269	-.01639	.08315	.591294	.001766	-.00770	.00000
JAN	14	48270	-.01989	.08367	.589529	.001782	-.00724	.00008
JAN	15	48271	-.02337	.08401	.587709	.001867	-.00689	.00013
JAN	16	48272	-.02703	.08444	.585779	.001999	-.00682	.00013
JAN	17	48273	-.03093	.08494	.583702	.002150	-.00720	-.00004
JAN	18	48274	-.03516	.08539	.581476	.002293	-.00724	-.00019
JAN	19	48275	-.03959	.08576	.579123	.002406	-.00714	-.00027
JAN	20	48276	-.04387	.08611	.576681	.002473	-.00696	-.00019
JAN	21	48277	-.04769	.08653	.574201	.002482	-.00693	-.00018
JAN	22	48278	-.05091	.08716	.571746	.002421	-.00687	-.00014
JAN	23	48279	-.05347	.08816	.569386	.002293	-.00701	-.00015
JAN	24	48280	-.05550	.08956	.567176	.002117	-.00771	-.00029
JAN	25	48281	-.05742	.09120	.565153	.001932	-.00844	-.00043
JAN	26	48282	-.05973	.09294	.563297	.001796	-.00901	-.00055
JAN	27	48283	-.06272	.09466	.561525	.001761	-.00908	-.00061
JAN	28	48284	-.06636	.09628	.559731	.001847	-.00871	-.00071
JAN	29	48285	-.07040	.09772	.557796	.002035	-.00768	-.00065
JAN	30	48286	-.07465	.09933	.555645	.002272	-.00696	-.00063
JAN	31	48287	-.07905	.10112	.553263	.002493	-.00669	-.00069
FEB	1	48288	-.08358	.10289	.550691	.002648	-.00649	-.00065
FEB	2	48289	-.08812	.10439	.548008	.002699	-.00664	-.00054
FEB	3	48290	-.09236	.10563	.545330	.002625	-.00668	-.00038
FEB	4	48291	-.09621	.10675	.542782	.002454	-.00685	-.00040
FEB	5	48292	-.09967	.10795	.540430	.002249	-.00706	-.00047
FEB	6	48293	-.10291	.10930	.538283	.002049	-.00726	-.00059
FEB	7	48294	-.10600	.11076	.536321	.001881	-.00750	-.00084
FEB	8	48295	-.10898	.11226	.534505	.001767	-.00748	-.00108

FEB	9	48296	-.11184	.11386	.532767	.001727	-.00721	-.00118
FEB	10	48297	-.11458	.11580	.531027	.001766	-.00686	-.00142
FEB	11	48298	-.11740	.11796	.529212	.001869	-.00659	-.00150
FEB	12	48299	-.12040	.12019	.527269	.002016	-.00649	-.00151
FEB	13	48300	-.12362	.12239	.525167	.002183	-.00702	-.00118
FEB	14	48301	-.12680	.12467	.522897	.002370	-.00721	-.00124
FEB	15	48302	-.13000	.12718	.520432	.002560	-.00716	-.00130
FEB	16	48303	-.13335	.13007	.517794	.002696	-.00705	-.00131
FEB	17	48304	-.13670	.13326	.515068	.002719	-.00711	-.00128
FEB	18	48305	-.13972	.13661	.512388	.002626	-.00716	-.00121
FEB	19	48306	-.14248	.13992	.509846	.002454	-.00725	-.00121
FEB	20	48307	-.14533	.14310	.507500	.002242	-.00740	-.00114
FEB	21	48308	-.14832	.14613	.505365	.002046	-.00748	-.00129
FEB	22	48309	-.15148	.14901	.503394	.001927	-.00750	-.00141
FEB	23	48310	-.15459	.15170	.501482	.001912	-.00770	-.00180
FEB	24	48311	-.15761	.15427	.499531	.002004	-.00773	-.00222
FEB	25	48312	-.16047	.15680	.497436	.002194	-.00778	-.00247
FEB	26	48313	-.16308	.15932	.495118	.002447	-.00742	-.00247
FEB	27	48314	-.16545	.16201	.492540	.002706	-.00699	-.00233
FEB	28	48315	-.16764	.16513	.489727	.002911	-.00674	-.00199
MAR	1	48316	-.16976	.16822	.486756	.003006	-.00664	-.00187
MAR	2	48317	-.17184	.17120	.483756	.002960	-.00676	-.00179
MAR	3	48318	-.17384	.17412	.480868	.002787	-.00663	-.00188
MAR	4	48319	-.17562	.17704	.478199	.002529	-.00657	-.00214
MAR	5	48320	-.17745	.18004	.475813	.002238	-.00692	-.00215
MAR	6	48321	-.17951	.18322	.473716	.001970	-.00721	-.00209
MAR	7	48322	-.18190	.18660	.471859	.001771	-.00744	-.00223
MAR	8	48323	-.18420	.19010	.470155	.001656	-.00711	-.00235
MAR	9	48324	-.18612	.19368	.468524	.001626	-.00648	-.00261
MAR	10	48325	-.18761	.19724	.466879	.001689	-.00581	-.00281
MAR	11	48326	-.18877	.20083	.465125	.001837	-.00518	-.00284
MAR	12	48327	-.18974	.20453	.463187	.002044	-.00496	-.00293
MAR	13	48328	-.19074	.20841	.461025	.002273	-.00539	-.00288
MAR	14	48329	-.19214	.21244	.458640	.002493	-.00599	-.00294
MAR	15	48330	-.19407	.21644	.456051	.002712	-.00594	-.00294
MAR	16	48331	-.19587	.22009	.453240	.002891	-.00609	-.00278
MAR	17	48332	-.19749	.22355	.450302	.002940	-.00645	-.00260
MAR	18	48333	-.19902	.22705	.447396	.002837	-.00657	-.00257
MAR	19	48334	-.20044	.23070	.444656	.002622	-.00657	-.00280
MAR	20	48335	-.20165	.23438	.442163	.002372	-.00650	-.00304
MAR	21	48336	-.20251	.23804	.439901	.002169	-.00637	-.00328
MAR	22	48337	-.20315	.24183	.437797	.002044	-.00620	-.00348
MAR	23	48338	-.20398	.24566	.435776	.001997	-.00605	-.00372
MAR	24	48339	-.20531	.24942	.433769	.002041	-.00589	-.00390
MAR	25	48340	-.20724	.25307	.431668	.002216	-.00589	-.00411
MAR	26	48341	-.20942	.25722	.429327	.002480	-.00472	-.00428
MAR	27	48342	-.21161	.26175	.426719	.002724	-.00411	-.00433
MAR	28	48343	-.21367	.26599	.423905	.002875	-.00426	-.00410
MAR	29	48344	-.21542	.26975	.421004	.002895	-.00475	-.00391
MAR	30	48345	-.21677	.27346	.418149	.002794	-.00511	-.00388
MAR	31	48346	-.21772	.27730	.415440	.002621	-.00537	-.00402
APR	1	48347	-.21830	.28125	.412918	.002427	-.00545	-.00411
APR	2	48348	-.21855	.28536	.410585	.002248	-.00530	-.00424

APR	3	48349	-.21848	.28965	.408411	.002090	-.00498	-.00439
APR	4	48350	-.21858	.29406	.406388	.001969	-.00470	-.00442
APR	5	48351	-.21902	.29846	.404451	.001922	-.00449	-.00450
APR	6	48352	-.21959	.30266	.402521	.001940	-.00422	-.00462
APR	7	48353	-.22014	.30661	.400548	.001993	-.00407	-.00477
APR	8	48354	-.22059	.31043	.398517	.002072	-.00401	-.00487
APR	9	48355	-.22085	.31422	.396392	.002208	-.00419	-.00483
APR	10	48356	-.22073	.31806	.394097	.002386	-.00444	-.00469
APR	11	48357	-.22011	.32194	.391624	.002544	-.00445	-.00457
APR	12	48358	-.21909	.32590	.389025	.002660	-.00437	-.00449
APR	13	48359	-.21809	.33003	.386334	.002727	-.00424	-.00448
APR	14	48360	-.21726	.33431	.383608	.002708	-.00468	-.00424
APR	15	48361	-.21596	.33832	.380951	.002581	-.00512	-.00405
APR	16	48362	-.21441	.34208	.378466	.002362	-.00551	-.00409
APR	17	48363	-.21321	.34589	.376226	.002117	-.00563	-.00454
APR	18	48364	-.21251	.35004	.374208	.001933	-.00560	-.00495
APR	19	48365	-.21230	.35404	.372323	.001875	-.00547	-.00511
APR	20	48366	-.21213	.35792	.370419	.001973	-.00510	-.00531
APR	21	48367	-.21169	.36178	.368350	.002188	-.00477	-.00534
APR	22	48368	-.21126	.36566	.366034	.002441	-.00445	-.00543
APR	23	48369	-.21102	.36956	.363476	.002658	-.00419	-.00548
APR	24	48370	-.21113	.37358	.360739	.002802	-.00420	-.00564
APR	25	48371	-.21144	.37736	.357902	.002855	-.00425	-.00553
APR	26	48372	-.21167	.38087	.355061	.002804	-.00429	-.00518
APR	27	48373	-.21146	.38430	.352319	.002652	-.00436	-.00510
APR	28	48374	-.21077	.38783	.349774	.002437	-.00447	-.00517
APR	29	48375	-.20986	.39149	.347448	.002230	-.00457	-.00530
APR	30	48376	-.20899	.39536	.345306	.002063	-.00460	-.00544
MAY	1	48377	-.20825	.39935	.343306	.001943	-.00457	-.00528
MAY	2	48378	-.20718	.40319	.341400	.001875	-.00460	-.00528
MAY	3	48379	-.20569	.40681	.339534	.001865	-.00464	-.00552
MAY	4	48380	-.20402	.41039	.337648	.001920	-.00458	-.00569
MAY	5	48381	-.20237	.41395	.335677	.002043	-.00428	-.00571
MAY	6	48382	-.20089	.41744	.333550	.002217	-.00401	-.00568
MAY	7	48383	-.19926	.42113	.331235	.002413	-.00381	-.00563
MAY	8	48384	-.19736	.42508	.328725	.002594	-.00367	-.00550
MAY	9	48385	-.19543	.42908	.326058	.002736	-.00356	-.00541
MAY	10	48386	-.19363	.43298	.323273	.002822	-.00372	-.00528
MAY	11	48387	-.19186	.43661	.320442	.002828	-.00388	-.00522
MAY	12	48388	-.18998	.44006	.317652	.002741	-.00416	-.00521
MAY	13	48389	-.18789	.44360	.314986	.002583	-.00450	-.00525
MAY	14	48390	-.18546	.44736	.312496	.002389	-.00508	-.00529
MAY	15	48391	-.18282	.45112	.310195	.002190	-.00559	-.00522
MAY	16	48392	-.18010	.45448	.308080	.002052	-.00568	-.00530
MAY	17	48393	-.17729	.45747	.306049	.002024	-.00542	-.00542
MAY	18	48394	-.17432	.46058	.303999	.002092	-.00527	-.00557
MAY	19	48395	-.17130	.46381	.301850	.002217	-.00541	-.00567
MAY	20	48396	-.16830	.46702	.299572	.002341	-.00579	-.00573
MAY	21	48397	-.16539	.47008	.297193	.002401	-.00604	-.00568
MAY	22	48398	-.16261	.47289	.294801	.002359	-.00625	-.00556
MAY	23	48399	-.15987	.47561	.292504	.002219	-.00618	-.00539
MAY	24	48400	-.15703	.47834	.290386	.002016	-.00604	-.00529
MAY	25	48401	-.15406	.48114	.288485	.001810	-.00608	-.00524

MAY	26	48402	-.15099	.48408	.286769	.001637	-.00622	-.00535
MAY	27	48403	-.14789	.48717	.285206	.001492	-.00631	-.00550
MAY	28	48404	-.14485	.49020	.283772	.001377	-.00613	-.00574
MAY	29	48405	-.14193	.49305	.282435	.001322	-.00570	-.00595
MAY	30	48406	-.13907	.49579	.281107	.001347	-.00526	-.00611
MAY	31	48407	-.13626	.49853	.279718	.001429	-.00479	-.00611
JUN	1	48408	-.13351	.50133	.278230	.001546	-.00477	-.00604
JUN	2	48409	-.13072	.50417	.276613	.001691	-.00515	-.00582
JUN	3	48410	-.12780	.50698	.274841	.001862	-.00569	-.00568
JUN	4	48411	-.12463	.50966	.272889	.002045	-.00630	-.00554
JUN	5	48412	-.12112	.51212	.270759	.002209	-.00615	-.00553
JUN	6	48413	-.11749	.51441	.268485	.002332	-.00590	-.00548
JUN	7	48414	-.11387	.51671	.266118	.002399	-.00587	-.00550
JUN	8	48415	-.11021	.51933	.263715	.002396	-.00658	-.00548
JUN	9	48416	-.10654	.52219	.261354	.002310	-.00757	-.00550
JUN	10	48417	-.10288	.52516	.259113	.002160	-.00830	-.00555
JUN	11	48418	-.09925	.52816	.257032	.002002	-.00877	-.00548
JUN	12	48419	-.09563	.53099	.255083	.001879	-.00859	-.00528
JUN	13	48420	-.09206	.53334	.253232	.001825	-.00814	-.00522
JUN	14	48421	-.08856	.53533	.251391	.001872	-.00767	-.00519
JUN	15	48422	-.08501	.53716	.249463	.002000	-.00748	-.00511
JUN	16	48423	-.08141	.53881	.247391	.002151	-.00761	-.00508
JUN	17	48424	-.07787	.54028	.245185	.002246	-.00791	-.00513
JUN	18	48425	-.07451	.54166	.242937	.002223	-.00837	-.00510
JUN	19	48426	-.07127	.54324	.240774	.002101	-.00876	-.00511
JUN	20	48427	-.06783	.54512	.238761	.001924	-.00913	-.00508
JUN	21	48428	-.06432	.54710	.236941	.001704	-.00938	-.00502
JUN	22	48429	-.06133	.54857	.235356	.001451	-.00886	-.00511
JUN	23	48430	-.05883	.54965	.234035	.001194	-.00820	-.00515
JUN	24	48431	-.05630	.55085	.232956	.000989	-.00787	-.00519
JUN	25	48432	-.05333	.55252	.232038	.000868	-.00849	-.00532
JUN	26	48433	-.04994	.55449	.231200	.000805	-.00998	-.00550
JUN	27	48434	-.04645	.55634	.230407	.000792	-.01041	-.00552
JUN	28	48435	-.04302	.55798	.229597	.000847	-.01016	-.00527
JUN	29	48436	-.03984	.55958	.228700	.000964	-.01001	-.00496
JUN	30	48437	-.03648	.56081	.227661	.001113	-.00989	-.00483
JUL	1	48438	-.03296	.56178	.226474	.001262	-.00995	-.00478
JUL	2	48439	-.02947	.56277	.225144	.001406	-.01056	-.00496
JUL	3	48440	-.02598	.56391	.223676	.001527	-.01078	-.00479
JUL	4	48441	-.02221	.56506	.222110	.001585	-.01075	-.00479
JUL	5	48442	-.01803	.56609	.220530	.001551	-.01089	-.00474
JUL	6	48443	-.01360	.56705	.219032	.001425	-.01092	-.00476
JUL	7	48444	-.00925	.56796	.217698	.001232	-.01101	-.00480
JUL	8	48445	-.00527	.56888	.216573	.001023	-.01123	-.00484
JUL	9	48446	-.00157	.56955	.215638	.000868	-.01159	-.00495
JUL	10	48447	.00206	.56979	.214804	.000826	-.01226	-.00501
JUL	11	48448	.00580	.56985	.213942	.000925	-.01209	-.00511
JUL	12	48449	.00982	.57013	.212919	.001148	-.01166	-.00514
JUL	13	48450	.01402	.57045	.211633	.001436	-.01115	-.00522
JUL	14	48451	.01826	.57074	.210061	.001704	-.01129	-.00508
JUL	15	48452	.02255	.57111	.208263	.001869	-.01200	-.00494
JUL	16	48453	.02697	.57166	.206367	.001878	-.01286	-.00483
JUL	17	48454	.03158	.57230	.204543	.001754	-.01351	-.00468

JUL	18	48455	.03632	.57253	.202880	.001563	-.01407	-.00470
JUL	19	48456	.04115	.57249	.201423	.001348	-.01428	-.00468
JUL	20	48457	.04590	.57239	.200176	.001130	-.01397	-.00470
JUL	21	48458	.05051	.57235	.199149	.000934	-.01370	-.00465
JUL	22	48459	.05506	.57238	.198292	.000820	-.01386	-.00458
JUL	23	48460	.05962	.57234	.197487	.000795	-.01449	-.00468
JUL	24	48461	.06420	.57210	.196680	.000823	-.01513	-.00472
JUL	25	48462	.06876	.57170	.195819	.000906	-.01527	-.00469
JUL	26	48463	.07327	.57140	.194852	.001037	-.01497	-.00470
JUL	27	48464	.07771	.57115	.193737	.001194	-.01441	-.00467
JUL	28	48465	.08201	.57095	.192461	.001353	-.01431	-.00453
JUL	29	48466	.08605	.57069	.191038	.001482	-.01508	-.00450
JUL	30	48467	.08968	.57041	.189512	.001534	-.01507	-.00471
JUL	31	48468	.09287	.57015	.187990	.001501	-.01513	-.00468
AUG	1	48469	.09580	.56954	.186534	.001422	-.01539	-.00462
AUG	2	48470	.09867	.56841	.185170	.001316	-.01556	-.00472
AUG	3	48471	.10157	.56711	.183918	.001195	-.01550	-.00465
AUG	4	48472	.10462	.56569	.182784	.001057	-.01567	-.00470
AUG	5	48473	.10792	.56433	.181795	.000913	-.01608	-.00482
AUG	6	48474	.11156	.56304	.180932	.000822	-.01627	-.00500
AUG	7	48475	.11534	.56179	.180111	.000849	-.01610	-.00502
AUG	8	48476	.11879	.56058	.179195	.001016	-.01586	-.00487
AUG	9	48477	.12198	.55933	.178055	.001287	-.01580	-.00476
AUG	10	48478	.12543	.55787	.176622	.001586	-.01599	-.00452
AUG	11	48479	.12918	.55627	.174909	.001829	-.01625	-.00438
AUG	12	48480	.13316	.55465	.173007	.001957	-.01676	-.00416
AUG	13	48481	.13707	.55323	.171040	.001956	-.01739	-.00409
AUG	14	48482	.14059	.55199	.169127	.001832	-.01836	-.00409
AUG	15	48483	.14379	.55073	.167391	.001629	-.01899	-.00405
AUG	16	48484	.14691	.54924	.165867	.001426	-.01913	-.00406
AUG	17	48485	.14988	.54752	.164526	.001259	-.01841	-.00410
AUG	18	48486	.15254	.54558	.163330	.001133	-.01792	-.00414
AUG	19	48487	.15484	.54343	.162238	.001058	-.01779	-.00416
AUG	20	48488	.15700	.54121	.161191	.001042	-.01785	-.00411
AUG	21	48489	.15934	.53907	.160132	.001082	-.01798	-.00421
AUG	22	48490	.16183	.53697	.159009	.001174	-.01766	-.00444
AUG	23	48491	.16427	.53470	.157774	.001320	-.01675	-.00432
AUG	24	48492	.16669	.53222	.156365	.001515	-.01619	-.00417
AUG	25	48493	.16927	.52987	.154746	.001724	-.01641	-.00423
AUG	26	48494	.17193	.52781	.152929	.001904	-.01706	-.00433
AUG	27	48495	.17455	.52617	.150960	.002022	-.01761	-.00458
AUG	28	48496	.17726	.52453	.148911	.002057	-.01808	-.00490
AUG	29	48497	.17996	.52266	.146870	.002008	-.01839	-.00488
AUG	30	48498	.18253	.52063	.144914	.001898	-.01867	-.00471
AUG	31	48499	.18500	.51848	.143080	.001760	-.01870	-.00465
SEP	1	48500	.18746	.51627	.141387	.001627	-.01876	-.00469
SEP	2	48501	.19002	.51398	.139806	.001551	-.01878	-.00478
SEP	3	48502	.19270	.51159	.138251	.001580	-.01862	-.00482
SEP	4	48503	.19546	.50919	.136610	.001727	-.01856	-.00499
SEP	5	48504	.19836	.50691	.134769	.001975	-.01837	-.00500
SEP	6	48505	.20154	.50489	.132648	.002265	-.01781	-.00487
SEP	7	48506	.20467	.50301	.130251	.002510	-.01771	-.00452
SEP	8	48507	.20761	.50106	.127660	.002649	-.01798	-.00429

SEP	9	48508	.21026	.49866	.124997	.002662	-.01818	-.00411
SEP	10	48509	.21269	.49620	.122378	.002571	-.01824	-.00388
SEP	11	48510	.21486	.49404	.119883	.002399	-.01869	-.00372
SEP	12	48511	.21656	.49178	.117586	.002171	-.01927	-.00372
SEP	13	48512	.21778	.48924	.115534	.001942	-.01960	-.00385
SEP	14	48513	.21871	.48657	.113685	.001765	-.01967	-.00390
SEP	15	48514	.21958	.48390	.111980	.001646	-.01928	-.00402
SEP	16	48515	.22094	.48112	.110370	.001578	-.01837	-.00400
SEP	17	48516	.22317	.47808	.108800	.001556	-.01740	-.00402
SEP	18	48517	.22583	.47494	.107237	.001592	-.01705	-.00407
SEP	19	48518	.22823	.47191	.105602	.001699	-.01700	-.00396
SEP	20	48519	.23022	.46891	.103830	.001858	-.01719	-.00382
SEP	21	48520	.23182	.46588	.101888	.002041	-.01745	-.00378
SEP	22	48521	.23341	.46293	.099758	.002228	-.01787	-.00376
SEP	23	48522	.23523	.46013	.097451	.002394	-.01839	-.00379
SEP	24	48523	.23744	.45755	.094995	.002511	-.01876	-.00379
SEP	25	48524	.23986	.45505	.092457	.002521	-.01900	-.00395
SEP	26	48525	.24224	.45241	.089977	.002421	-.01893	-.00386
SEP	27	48526	.24436	.44939	.087628	.002266	-.01871	-.00390
SEP	28	48527	.24624	.44620	.085442	.002095	-.01832	-.00395
SEP	29	48528	.24796	.44313	.083418	.001949	-.01798	-.00396
SEP	30	48529	.24952	.44030	.081511	.001872	-.01754	-.00401
OCT	1	48530	.25071	.43743	.079638	.001892	-.01717	-.00401
OCT	2	48531	.25140	.43428	.077699	.002013	-.01665	-.00394
OCT	3	48532	.25211	.43088	.075598	.002192	-.01644	-.00392
OCT	4	48533	.25298	.42733	.073318	.002377	-.01649	-.00417
OCT	5	48534	.25402	.42378	.070865	.002520	-.01671	-.00433
OCT	6	48535	.25517	.42022	.068313	.002571	-.01707	-.00413
OCT	7	48536	.25631	.41667	.065763	.002519	-.01742	-.00378
OCT	8	48537	.25729	.41312	.063307	.002385	-.01769	-.00340
OCT	9	48538	.25803	.40966	.061009	.002202	-.01759	-.00338
OCT	10	48539	.25865	.40628	.058903	.001999	-.01738	-.00351
OCT	11	48540	.25930	.40288	.056997	.001803	-.01700	-.00365
OCT	12	48541	.25994	.39941	.055275	.001638	-.01666	-.00359
OCT	13	48542	.26048	.39595	.053697	.001522	-.01628	-.00348
OCT	14	48543	.26086	.39263	.052210	.001453	-.01602	-.00342
OCT	15	48544	.26114	.38944	.050771	.001439	-.01566	-.00349
OCT	16	48545	.26153	.38607	.049316	.001502	-.01557	-.00360
OCT	17	48546	.26195	.38266	.047758	.001640	-.01541	-.00337
OCT	18	48547	.26210	.37936	.046033	.001815	-.01531	-.00322
OCT	19	48548	.26208	.37619	.044132	.001988	-.01538	-.00339
OCT	20	48549	.26210	.37307	.042069	.002141	-.01558	-.00361
OCT	21	48550	.26219	.36991	.039872	.002248	-.01595	-.00368
OCT	22	48551	.26204	.36655	.037601	.002286	-.01610	-.00342
OCT	23	48552	.26150	.36297	.035325	.002249	-.01597	-.00322
OCT	24	48553	.26119	.35969	.033120	.002138	-.01570	-.00336
OCT	25	48554	.26102	.35666	.031056	.001993	-.01547	-.00330
OCT	26	48555	.26067	.35374	.029121	.001889	-.01517	-.00313
OCT	27	48556	.26012	.35075	.027248	.001870	-.01496	-.00290
OCT	28	48557	.25956	.34768	.025344	.001945	-.01479	-.00282
OCT	29	48558	.25915	.34453	.023328	.002097	-.01465	-.00287
OCT	30	48559	.25911	.34113	.021134	.002308	-.01450	-.00306
OCT	31	48560	.25954	.33756	.018714	.002533	-.01419	-.00312

NOV	1	48561	.26033	.33420	.016086	.002710	-.01395	-.00307
NOV	2	48562	.26139	.33133	.013324	.002787	-.01417	-.00296
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NOV	5	48565	.26366	.32362	.005315	.002430	-.01420	-.00225
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NOV	9	48569	.26234	.31270	-.002890	.001838	-.01308	-.00256
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NOV	15	48575	.25636	.29540	-.014968	.002410	-.01161	-.00213
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NOV	22	48582	.25178	.27367	-.032272	.002089	-.01215	-.00189
NOV	23	48583	.25074	.27106	-.034305	.002003	-.01187	-.00178
NOV	24	48584	.24936	.26854	-.036314	.002047	-.01171	-.00182
NOV	25	48585	.24781	.26583	-.038436	.002218	-.01155	-.00179
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NOV	27	48587	.24520	.25866	-.043360	.002701	-.01131	-.00167
NOV	28	48588	.24403	.25462	-.046156	.002873	-.01132	-.00162
NOV	29	48589	.24281	.25076	-.049075	.002944	-.01139	-.00149
NOV	30	48590	.24174	.24717	-.052011	.002911	-.01149	-.00140
DEC	1	48591	.24102	.24391	-.054870	.002789	-.01155	-.00138
DEC	2	48592	.24089	.24098	-.057571	.002600	-.01161	-.00132
DEC	3	48593	.24095	.23837	-.060064	.002391	-.01157	-.00132
DEC	4	48594	.24053	.23603	-.062357	.002191	-.01150	-.00126
DEC	5	48595	.23902	.23381	-.064459	.002032	-.01137	-.00130
DEC	6	48596	.23686	.23171	-.066441	.001943	-.01137	-.00143
DEC	7	48597	.23441	.22946	-.068367	.001913	-.01125	-.00150
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DEC	12	48602	.22094	.21434	-.078820	.002402	-.00996	-.00117
DEC	13	48603	.21916	.21135	-.081287	.002520	-.01058	-.00106
DEC	14	48604	.21743	.20854	-.083846	.002584	-.01061	-.00089
DEC	15	48605	.21555	.20610	-.086438	.002596	-.01028	-.00099
DEC	16	48606	.21366	.20397	-.089017	.002563	-.01041	-.00105
DEC	17	48607	.21193	.20185	-.091545	.002483	-.01084	-.00117
DEC	18	48608	.21028	.19918	-.093966	.002331	-.01111	-.00111
DEC	19	48609	.20862	.19673	-.096204	.002133	-.01112	-.00105
DEC	20	48610	.20703	.19485	-.098248	.001969	-.01047	-.00086
DEC	21	48611	.20533	.19330	-.100173	.001907	-.00973	-.00102
DEC	22	48612	.20335	.19151	-.102100	.001963	-.00926	-.00121
DEC	23	48613	.20095	.18922	-.104131	.002111	-.00924	-.00123

DEC	24	48614	.19816	.18666	-.106333	.002313	-.00934	-.00131
DEC	25	48615	.19538	.18423	-.108742	.002507	-.00939	-.00127
DEC	26	48616	.19306	.18205	-.111313	.002627	-.00962	-.00123
DEC	27	48617	.19142	.17968	-.113954	.002634	-.00988	-.00113
DEC	28	48618	.19042	.17727	-.116546	.002524	-.01013	-.00108
DEC	29	48619	.18938	.17488	-.118983	.002336	-.01030	-.00100
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DEC	31	48621	.18607	.17058	-.123253	.001961	-.01038	-.00101