

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 ==> 1990								
JAN	1	47892	-.13339	.16541	.328747	.001965	-.00502	.00097
JAN	2	47893	-.13480	.16834	.326683	.002157	-.00509	.00098
JAN	3	47894	-.13603	.17112	.324467	.002261	-.00524	.00092
JAN	4	47895	-.13719	.17388	.322202	.002251	-.00550	.00100
JAN	5	47896	-.13850	.17664	.320004	.002127	-.00561	.00101
JAN	6	47897	-.14020	.17938	.317977	.001909	-.00568	.00098
JAN	7	47898	-.14235	.18194	.316195	.001643	-.00569	.00104
JAN	8	47899	-.14478	.18426	.314677	.001396	-.00564	.00101
JAN	9	47900	-.14724	.18634	.313369	.001229	-.00576	.00091
JAN	10	47901	-.14957	.18848	.312176	.001176	-.00560	.00088
JAN	11	47902	-.15162	.19102	.310980	.001257	-.00524	.00101
JAN	12	47903	-.15374	.19388	.309641	.001451	-.00465	.00121
JAN	13	47904	-.15586	.19676	.308078	.001690	-.00370	.00124
JAN	14	47905	-.15764	.19956	.306280	.001889	-.00342	.00119
JAN	15	47906	-.15901	.20239	.304327	.001982	-.00360	.00111
JAN	16	47907	-.16028	.20536	.302343	.001965	-.00410	.00110
JAN	17	47908	-.16176	.20853	.300421	.001869	-.00457	.00102
JAN	18	47909	-.16365	.21194	.298622	.001736	-.00502	.00087
JAN	19	47910	-.16585	.21547	.296960	.001601	-.00508	.00087
JAN	20	47911	-.16850	.21900	.295423	.001476	-.00501	.00073
JAN	21	47912	-.17159	.22224	.294005	.001357	-.00496	.00039
JAN	22	47913	-.17497	.22498	.292696	.001264	-.00486	.00027
JAN	23	47914	-.17839	.22722	.291456	.001223	-.00464	.00019
JAN	24	47915	-.18130	.22974	.290224	.001264	-.00467	.00028
JAN	25	47916	-.18352	.23288	.288899	.001412	-.00453	.00034
JAN	26	47917	-.18526	.23646	.287373	.001656	-.00439	.00025
JAN	27	47918	-.18701	.24015	.285568	.001956	-.00419	.00029
JAN	28	47919	-.18906	.24376	.283460	.002255	-.00416	.00043
JAN	29	47920	-.19123	.24735	.281076	.002520	-.00469	.00055
JAN	30	47921	-.19325	.25087	.278453	.002723	-.00532	.00071
JAN	31	47922	-.19507	.25405	.275674	.002807	-.00579	.00081
FEB	1	47923	-.19615	.25782	.272881	.002740	-.00602	.00085
FEB	2	47924	-.19695	.26180	.270224	.002545	-.00614	.00083
FEB	3	47925	-.19794	.26547	.267801	.002295	-.00611	.00068
FEB	4	47926	-.19927	.26879	.265619	.002075	-.00581	.00044
FEB	5	47927	-.20084	.27203	.263621	.001942	-.00556	.00024
FEB	6	47928	-.20241	.27546	.261696	.001935	-.00532	.00008
FEB	7	47929	-.20369	.27943	.259714	.002056	-.00525	-.00010
FEB	8	47930	-.20467	.28351	.257557	.002264	-.00543	-.00033

FEB	9	47931	-.20524	.28746	.255178	.002481	-.00543	-.00041
FEB	10	47932	-.20532	.29125	.252605	.002650	-.00510	-.00026
FEB	11	47933	-.20495	.29501	.249902	.002747	-.00472	-.00002
FEB	12	47934	-.20428	.29887	.247140	.002780	-.00439	.00008
FEB	13	47935	-.20347	.30300	.244369	.002748	-.00445	.00002
FEB	14	47936	-.20267	.30723	.241665	.002643	-.00461	-.00010
FEB	15	47937	-.20196	.31150	.239095	.002492	-.00471	-.00019
FEB	16	47938	-.20126	.31583	.236687	.002317	-.00478	-.00012
FEB	17	47939	-.20079	.32002	.234459	.002131	-.00459	-.00016
FEB	18	47940	-.20066	.32380	.232415	.001952	-.00464	-.00040
FEB	19	47941	-.20079	.32723	.230535	.001797	-.00485	-.00069
FEB	20	47942	-.20136	.33045	.228795	.001684	-.00519	-.00092
FEB	21	47943	-.20226	.33347	.227138	.001665	-.00523	-.00098
FEB	22	47944	-.20298	.33635	.225437	.001783	-.00485	-.00099
FEB	23	47945	-.20315	.33947	.223548	.002003	-.00460	-.00096
FEB	24	47946	-.20251	.34293	.221419	.002255	-.00462	-.00081
FEB	25	47947	-.20096	.34662	.219045	.002492	-.00470	-.00078
FEB	26	47948	-.19888	.35057	.216465	.002661	-.00481	-.00070
FEB	27	47949	-.19675	.35472	.213771	.002718	-.00487	-.00058
FEB	28	47950	-.19498	.35909	.211081	.002635	-.00492	-.00053
MAR	1	47951	-.19380	.36359	.208541	.002422	-.00489	-.00053
MAR	2	47952	-.19329	.36798	.206253	.002141	-.00501	-.00077
MAR	3	47953	-.19313	.37182	.204249	.001876	-.00516	-.00101
MAR	4	47954	-.19308	.37517	.202470	.001697	-.00515	-.00143
MAR	5	47955	-.19285	.37815	.200814	.001634	-.00503	-.00151
MAR	6	47956	-.19237	.38141	.199164	.001689	-.00486	-.00162
MAR	7	47957	-.19164	.38529	.197407	.001846	-.00462	-.00166
MAR	8	47958	-.19087	.38902	.195459	.002067	-.00448	-.00175
MAR	9	47959	-.19013	.39246	.193274	.002311	-.00439	-.00191
MAR	10	47960	-.18926	.39634	.190853	.002512	-.00417	-.00206
MAR	11	47961	-.18819	.40061	.188275	.002613	-.00389	-.00215
MAR	12	47962	-.18696	.40450	.185654	.002604	-.00373	-.00219
MAR	13	47963	-.18585	.40804	.183092	.002500	-.00370	-.00209
MAR	14	47964	-.18516	.41125	.180674	.002322	-.00393	-.00206
MAR	15	47965	-.18512	.41423	.178456	.002151	-.00434	-.00197
MAR	16	47966	-.18513	.41695	.176372	.002031	-.00431	-.00192
MAR	17	47967	-.18491	.41956	.174386	.001936	-.00410	-.00206
MAR	18	47968	-.18435	.42228	.172485	.001867	-.00385	-.00226
MAR	19	47969	-.18325	.42512	.170631	.001866	-.00361	-.00262
MAR	20	47970	-.18153	.42805	.168727	.001965	-.00324	-.00290
MAR	21	47971	-.17955	.43126	.166674	.002153	-.00293	-.00303
MAR	22	47972	-.17734	.43488	.164395	.002399	-.00283	-.00300
MAR	23	47973	-.17484	.43888	.161856	.002653	-.00330	-.00276
MAR	24	47974	-.17238	.44314	.159083	.002916	-.00363	-.00292
MAR	25	47975	-.17038	.44752	.156041	.003166	-.00370	-.00292
MAR	26	47976	-.16868	.45168	.152791	.003298	-.00375	-.00248
MAR	27	47977	-.16680	.45518	.149500	.003245	-.00392	-.00201
MAR	28	47978	-.16457	.45796	.146352	.003016	-.00421	-.00189
MAR	29	47979	-.16248	.46059	.143500	.002657	-.00499	-.00222
MAR	30	47980	-.16029	.46312	.141042	.002285	-.00499	-.00257
MAR	31	47981	-.15821	.46582	.138904	.002026	-.00453	-.00290
APR	1	47982	-.15620	.46881	.136946	.001919	-.00404	-.00319
APR	2	47983	-.15390	.47207	.135023	.001953	-.00348	-.00332

APR	3	47984	-.15139	.47532	.133008	.002089	-.00313	-.00338
APR	4	47985	-.14881	.47826	.130831	.002262	-.00315	-.00329
APR	5	47986	-.14581	.48113	.128484	.002424	-.00340	-.00305
APR	6	47987	-.14250	.48402	.125996	.002544	-.00342	-.00291
APR	7	47988	-.13900	.48689	.123418	.002610	-.00331	-.00288
APR	8	47989	-.13541	.48982	.120801	.002624	-.00321	-.00300
APR	9	47990	-.13171	.49303	.118195	.002578	-.00298	-.00308
APR	10	47991	-.12811	.49646	.115665	.002470	-.00283	-.00313
APR	11	47992	-.12487	.49972	.113268	.002319	-.00269	-.00333
APR	12	47993	-.12214	.50283	.111029	.002151	-.00271	-.00357
APR	13	47994	-.11999	.50584	.108961	.001978	-.00286	-.00381
APR	14	47995	-.11776	.50870	.107059	.001845	-.00265	-.00394
APR	15	47996	-.11530	.51154	.105251	.001779	-.00233	-.00401
APR	16	47997	-.11270	.51436	.103476	.001771	-.00226	-.00422
APR	17	47998	-.10996	.51702	.101682	.001829	-.00222	-.00436
APR	18	47999	-.10721	.51924	.099794	.001978	-.00208	-.00455
APR	19	48000	-.10464	.52106	.097705	.002219	-.00199	-.00440
APR	20	48001	-.10213	.52343	.095343	.002499	-.00177	-.00406
APR	21	48002	-.09987	.52635	.092711	.002754	-.00160	-.00375
APR	22	48003	-.09764	.52917	.089861	.002926	-.00163	-.00359
APR	23	48004	-.09524	.53126	.086904	.002964	-.00180	-.00339
APR	24	48005	-.09334	.53322	.083988	.002846	-.00233	-.00336
APR	25	48006	-.09159	.53515	.081256	.002584	-.00335	-.00328
APR	26	48007	-.08945	.53697	.078841	.002222	-.00431	-.00342
APR	27	48008	-.08692	.53868	.076800	.001872	-.00460	-.00376
APR	28	48009	-.08439	.54038	.075059	.001620	-.00395	-.00437
APR	29	48010	-.08221	.54203	.073513	.001505	-.00340	-.00472
APR	30	48011	-.08020	.54368	.072011	.001542	-.00314	-.00470
MAY	1	48012	-.07804	.54539	.070410	.001690	-.00312	-.00452
MAY	2	48013	-.07538	.54722	.068629	.001877	-.00313	-.00420
MAY	3	48014	-.07239	.54886	.066670	.002031	-.00320	-.00405
MAY	4	48015	-.06909	.55022	.064588	.002128	-.00303	-.00392
MAY	5	48016	-.06529	.55168	.062437	.002167	-.00270	-.00392
MAY	6	48017	-.06098	.55335	.060276	.002135	-.00236	-.00388
MAY	7	48018	-.05626	.55497	.058186	.002025	-.00222	-.00391
MAY	8	48019	-.05127	.55638	.056238	.001868	-.00252	-.00399
MAY	9	48020	-.04666	.55794	.054454	.001711	-.00269	-.00422
MAY	10	48021	-.04250	.55972	.052814	.001579	-.00269	-.00447
MAY	11	48022	-.03848	.56142	.051284	.001478	-.00253	-.00460
MAY	12	48023	-.03442	.56288	.049839	.001422	-.00234	-.00479
MAY	13	48024	-.03033	.56408	.048417	.001430	-.00228	-.00482
MAY	14	48025	-.02621	.56512	.046955	.001500	-.00262	-.00478
MAY	15	48026	-.02198	.56606	.045394	.001645	-.00294	-.00459
MAY	16	48027	-.01759	.56698	.043648	.001866	-.00290	-.00455
MAY	17	48028	-.01320	.56796	.041650	.002133	-.00263	-.00441
MAY	18	48029	-.00891	.56901	.039380	.002380	-.00241	-.00428
MAY	19	48030	-.00476	.56999	.036905	.002550	-.00232	-.00420
MAY	20	48031	-.00064	.57075	.034311	.002637	-.00249	-.00398
MAY	21	48032	.00355	.57125	.031676	.002628	-.00293	-.00393
MAY	22	48033	.00783	.57152	.029102	.002490	-.00349	-.00383
MAY	23	48034	.01209	.57165	.026728	.002232	-.00451	-.00387
MAY	24	48035	.01598	.57190	.024643	.001930	-.00455	-.00412
MAY	25	48036	.01950	.57224	.022840	.001685	-.00434	-.00424

MAY	26	48037	.02289	.57250	.021228	.001563	-.00402	-.00431
MAY	27	48038	.02630	.57267	.019670	.001579	-.00385	-.00431
MAY	28	48039	.02981	.57292	.018039	.001698	-.00371	-.00426
MAY	29	48040	.03344	.57342	.016265	.001861	-.00428	-.00424
MAY	30	48041	.03734	.57394	.014331	.002010	-.00499	-.00430
MAY	31	48042	.04134	.57426	.012270	.002097	-.00517	-.00426
JUN	1	48043	.04520	.57431	.010162	.002099	-.00491	-.00415
JUN	2	48044	.04889	.57429	.008096	.002023	-.00454	-.00409
JUN	3	48045	.05255	.57439	.006135	.001903	-.00441	-.00409
JUN	4	48046	.05646	.57468	.004302	.001758	-.00454	-.00406
JUN	5	48047	.06055	.57485	.002626	.001583	-.00455	-.00418
JUN	6	48048	.06470	.57458	.001135	.001401	-.00451	-.00452
JUN	7	48049	.06865	.57383	-.000184	.001250	-.00450	-.00486
JUN	8	48050	.07226	.57294	-.001384	.001164	-.00464	-.00497
JUN	9	48051	.07573	.57205	-.002536	.001151	-.00490	-.00482
JUN	10	48052	.07942	.57116	-.003710	.001202	-.00513	-.00460
JUN	11	48053	.08338	.57038	-.004962	.001317	-.00512	-.00452
JUN	12	48054	.08763	.56972	-.006362	.001492	-.00513	-.00440
JUN	13	48055	.09217	.56909	-.007959	.001693	-.00530	-.00405
JUN	14	48056	.09679	.56848	-.009751	.001881	-.00534	-.00382
JUN	15	48057	.10113	.56787	-.011709	.002030	-.00531	-.00382
JUN	16	48058	.10495	.56720	-.013786	.002120	-.00527	-.00398
JUN	17	48059	.10856	.56643	-.015913	.002133	-.00543	-.00411
JUN	18	48060	.11222	.56557	-.018011	.002045	-.00612	-.00400
JUN	19	48061	.11592	.56467	-.019969	.001851	-.00679	-.00393
JUN	20	48062	.11967	.56362	-.021700	.001602	-.00709	-.00407
JUN	21	48063	.12353	.56220	-.023185	.001371	-.00693	-.00420
JUN	22	48064	.12733	.56040	-.024478	.001224	-.00653	-.00419
JUN	23	48065	.13063	.55863	-.025679	.001205	-.00677	-.00412
JUN	24	48066	.13348	.55681	-.026927	.001325	-.00691	-.00408
JUN	25	48067	.13676	.55508	-.028346	.001518	-.00664	-.00398
JUN	26	48068	.14053	.55336	-.029959	.001689	-.00640	-.00385
JUN	27	48069	.14440	.55144	-.031699	.001774	-.00643	-.00370
JUN	28	48070	.14814	.54921	-.033476	.001785	-.00712	-.00358
JUN	29	48071	.15205	.54699	-.035242	.001753	-.00813	-.00370
JUN	30	48072	.15645	.54505	-.036959	.001677	-.00879	-.00388
JUL	1	48073	.16126	.54349	-.038582	.001554	-.00914	-.00383
JUL	2	48074	.16597	.54221	-.040060	.001389	-.00930	-.00374
JUL	3	48075	.17013	.54094	-.041362	.001219	-.00901	-.00368
JUL	4	48076	.17422	.53936	-.042507	.001083	-.00895	-.00372
JUL	5	48077	.17822	.53745	-.043543	.000989	-.00944	-.00374
JUL	6	48078	.18211	.53534	-.044506	.000927	-.00991	-.00371
JUL	7	48079	.18568	.53323	-.045421	.000890	-.00985	-.00381
JUL	8	48080	.18882	.53089	-.046312	.000917	-.00951	-.00385
JUL	9	48081	.19178	.52832	-.047274	.001036	-.00927	-.00394
JUL	10	48082	.19502	.52567	-.048397	.001222	-.00909	-.00390
JUL	11	48083	.19861	.52312	-.049719	.001422	-.00917	-.00376
JUL	12	48084	.20237	.52079	-.051229	.001576	-.00971	-.00345
JUL	13	48085	.20611	.51861	-.052848	.001655	-.01025	-.00339
JUL	14	48086	.20963	.51663	-.054504	.001650	-.01022	-.00339
JUL	15	48087	.21297	.51440	-.056112	.001549	-.01014	-.00356
JUL	16	48088	.21633	.51160	-.057572	.001355	-.01025	-.00358
JUL	17	48089	.21979	.50872	-.058807	.001095	-.01041	-.00373

JUL	18	48090	.22326	.50636	-.059766	.000838	-.01089	-.00386
JUL	19	48091	.22631	.50392	-.060510	.000674	-.01144	-.00397
JUL	20	48092	.22927	.50125	-.061156	.000644	-.01159	-.00392
JUL	21	48093	.23242	.49838	-.061841	.000752	-.01112	-.00370
JUL	22	48094	.23540	.49550	-.062687	.000963	-.01071	-.00362
JUL	23	48095	.23814	.49254	-.063773	.001208	-.01053	-.00360
JUL	24	48096	.24097	.48941	-.065087	.001405	-.01080	-.00345
JUL	25	48097	.24410	.48610	-.066552	.001508	-.01134	-.00341
JUL	26	48098	.24723	.48278	-.068070	.001519	-.01222	-.00342
JUL	27	48099	.25017	.47957	-.069561	.001469	-.01307	-.00368
JUL	28	48100	.25292	.47639	-.070988	.001388	-.01324	-.00381
JUL	29	48101	.25557	.47311	-.072329	.001291	-.01283	-.00370
JUL	30	48102	.25803	.46973	-.073570	.001182	-.01259	-.00353
JUL	31	48103	.26024	.46622	-.074700	.001062	-.01289	-.00327
AUG	1	48104	.26216	.46271	-.075708	.000928	-.01472	-.00311
AUG	2	48105	.26385	.45933	-.076576	.000820	-.01503	-.00319
AUG	3	48106	.26558	.45574	-.077372	.000815	-.01396	-.00332
AUG	4	48107	.26757	.45211	-.078232	.000916	-.01341	-.00328
AUG	5	48108	.26982	.44865	-.079229	.001077	-.01313	-.00328
AUG	6	48109	.27220	.44540	-.080405	.001295	-.01280	-.00335
AUG	7	48110	.27453	.44222	-.081824	.001547	-.01283	-.00330
AUG	8	48111	.27668	.43888	-.083491	.001781	-.01332	-.00328
AUG	9	48112	.27871	.43530	-.085362	.001960	-.01443	-.00320
AUG	10	48113	.28055	.43181	-.087376	.002051	-.01540	-.00318
AUG	11	48114	.28218	.42867	-.089424	.002006	-.01555	-.00313
AUG	12	48115	.28365	.42584	-.091355	.001839	-.01550	-.00334
AUG	13	48116	.28519	.42317	-.093086	.001621	-.01571	-.00348
AUG	14	48117	.28682	.42033	-.094600	.001409	-.01575	-.00352
AUG	15	48118	.28841	.41700	-.095927	.001261	-.01503	-.00354
AUG	16	48119	.28978	.41360	-.097159	.001208	-.01421	-.00351
AUG	17	48120	.29092	.41043	-.098384	.001275	-.01494	-.00331
AUG	18	48121	.29226	.40727	-.099740	.001464	-.01600	-.00305
AUG	19	48122	.29400	.40400	-.101326	.001712	-.01607	-.00304
AUG	20	48123	.29607	.40059	-.103159	.001945	-.01579	-.00300
AUG	21	48124	.29823	.39701	-.105191	.002109	-.01528	-.00316
AUG	22	48125	.30005	.39352	-.107342	.002182	-.01452	-.00314
AUG	23	48126	.30160	.39019	-.109523	.002166	-.01395	-.00319
AUG	24	48127	.30335	.38684	-.111649	.002065	-.01422	-.00319
AUG	25	48128	.30505	.38339	-.113637	.001889	-.01505	-.00336
AUG	26	48129	.30616	.37983	-.115424	.001672	-.01595	-.00348
AUG	27	48130	.30653	.37623	-.116988	.001468	-.01601	-.00363
AUG	28	48131	.30644	.37265	-.118372	.001315	-.01549	-.00367
AUG	29	48132	.30624	.36898	-.119636	.001219	-.01493	-.00357
AUG	30	48133	.30631	.36515	-.120833	.001176	-.01478	-.00342
AUG	31	48134	.30645	.36128	-.122013	.001187	-.01492	-.00320
SEP	1	48135	.30652	.35751	-.123232	.001272	-.01471	-.00302
SEP	2	48136	.30694	.35380	-.124576	.001458	-.01442	-.00289
SEP	3	48137	.30787	.35010	-.126158	.001735	-.01430	-.00275
SEP	4	48138	.30941	.34632	-.128043	.002041	-.01444	-.00271
SEP	5	48139	.31109	.34244	-.130222	.002293	-.01512	-.00262
SEP	6	48140	.31207	.33855	-.132595	.002412	-.01628	-.00258
SEP	7	48141	.31243	.33470	-.135002	.002368	-.01694	-.00261
SEP	8	48142	.31267	.33079	-.137290	.002188	-.01723	-.00270

SEP	9	48143	.31299	.32659	-.139353	.001930	-.01719	-.00283
SEP	10	48144	.31319	.32211	-.141149	.001655	-.01619	-.00288
SEP	11	48145	.31310	.31783	-.142683	.001433	-.01612	-.00301
SEP	12	48146	.31278	.31394	-.144051	.001340	-.01592	-.00309
SEP	13	48147	.31238	.31018	-.145402	.001401	-.01536	-.00322
SEP	14	48148	.31190	.30627	-.146887	.001589	-.01510	-.00318
SEP	15	48149	.31135	.30239	-.148599	.001832	-.01513	-.00318
SEP	16	48150	.31079	.29854	-.150552	.002067	-.01490	-.00294
SEP	17	48151	.31012	.29475	-.152718	.002256	-.01453	-.00270
SEP	18	48152	.30929	.29106	-.155036	.002364	-.01433	-.00247
SEP	19	48153	.30849	.28746	-.157414	.002381	-.01444	-.00220
SEP	20	48154	.30813	.28388	-.159768	.002308	-.01471	-.00218
SEP	21	48155	.30802	.28035	-.162009	.002157	-.01525	-.00223
SEP	22	48156	.30762	.27699	-.164072	.001974	-.01560	-.00234
SEP	23	48157	.30636	.27388	-.165958	.001803	-.01551	-.00248
SEP	24	48158	.30449	.27072	-.167689	.001664	-.01525	-.00252
SEP	25	48159	.30237	.26718	-.169304	.001580	-.01493	-.00264
SEP	26	48160	.30059	.26312	-.170870	.001566	-.01470	-.00281
SEP	27	48161	.29926	.25881	-.172460	.001622	-.01453	-.00301
SEP	28	48162	.29829	.25454	-.174139	.001744	-.01440	-.00305
SEP	29	48163	.29761	.25049	-.175970	.001930	-.01427	-.00304
SEP	30	48164	.29703	.24677	-.178013	.002165	-.01429	-.00299
OCT	1	48165	.29626	.24349	-.180305	.002418	-.01458	-.00285
OCT	2	48166	.29556	.24039	-.182841	.002638	-.01502	-.00274
OCT	3	48167	.29503	.23724	-.185556	.002774	-.01546	-.00258
OCT	4	48168	.29416	.23405	-.188348	.002782	-.01543	-.00249
OCT	5	48169	.29256	.23082	-.191073	.002656	-.01525	-.00237
OCT	6	48170	.29052	.22760	-.193621	.002423	-.01496	-.00249
OCT	7	48171	.28830	.22422	-.195906	.002143	-.01471	-.00263
OCT	8	48172	.28615	.22058	-.197921	.001904	-.01469	-.00267
OCT	9	48173	.28418	.21670	-.199747	.001767	-.01473	-.00257
OCT	10	48174	.28224	.21272	-.201499	.001752	-.01468	-.00252
OCT	11	48175	.28018	.20880	-.203289	.001838	-.01451	-.00250
OCT	12	48176	.27805	.20509	-.205196	.001997	-.01371	-.00262
OCT	13	48177	.27597	.20154	-.207285	.002186	-.01292	-.00269
OCT	14	48178	.27392	.19792	-.209556	.002335	-.01290	-.00244
OCT	15	48179	.27149	.19422	-.211932	.002397	-.01305	-.00211
OCT	16	48180	.26858	.19061	-.214322	.002385	-.01323	-.00192
OCT	17	48181	.26578	.18737	-.216675	.002321	-.01319	-.00178
OCT	18	48182	.26330	.18437	-.218942	.002201	-.01345	-.00181
OCT	19	48183	.26082	.18132	-.221065	.002050	-.01354	-.00190
OCT	20	48184	.25805	.17783	-.223041	.001898	-.01289	-.00193
OCT	21	48185	.25513	.17482	-.224870	.001765	-.01258	-.00208
OCT	22	48186	.25226	.17213	-.226585	.001680	-.01261	-.00231
OCT	23	48187	.24963	.16915	-.228250	.001661	-.01241	-.00249
OCT	24	48188	.24739	.16588	-.229930	.001711	-.01185	-.00252
OCT	25	48189	.24548	.16264	-.231695	.001832	-.01140	-.00238
OCT	26	48190	.24368	.15975	-.233615	.001994	-.01183	-.00228
OCT	27	48191	.24179	.15702	-.235700	.002192	-.01210	-.00214
OCT	28	48192	.24003	.15445	-.238009	.002450	-.01173	-.00200
OCT	29	48193	.23838	.15206	-.240598	.002712	-.01133	-.00167
OCT	30	48194	.23645	.14978	-.243420	.002913	-.01154	-.00180
OCT	31	48195	.23412	.14750	-.246393	.003006	-.01181	-.00188

NOV	1	48196	.23185	.14496	-.249390	.002957	-.01186	-.00194
NOV	2	48197	.22975	.14227	-.252265	.002767	-.01171	-.00194
NOV	3	48198	.22765	.13972	-.254898	.002481	-.01141	-.00198
NOV	4	48199	.22527	.13755	-.257225	.002165	-.01114	-.00193
NOV	5	48200	.22216	.13542	-.259255	.001918	-.01112	-.00164
NOV	6	48201	.21855	.13319	-.261104	.001822	-.01119	-.00131
NOV	7	48202	.21486	.13091	-.262941	.001897	-.01103	-.00131
NOV	8	48203	.21126	.12867	-.264926	.002101	-.01089	-.00145
NOV	9	48204	.20784	.12651	-.267149	.002347	-.01087	-.00153
NOV	10	48205	.20465	.12449	-.269607	.002541	-.01059	-.00139
NOV	11	48206	.20173	.12247	-.272208	.002638	-.01048	-.00125
NOV	12	48207	.19906	.12035	-.274855	.002638	-.01043	-.00104
NOV	13	48208	.19651	.11796	-.277459	.002554	-.01037	-.00088
NOV	14	48209	.19388	.11529	-.279945	.002409	-.01024	-.00079
NOV	15	48210	.19084	.11261	-.282263	.002224	-.01005	-.00087
NOV	16	48211	.18752	.11021	-.284389	.002031	-.01016	-.00099
NOV	17	48212	.18410	.10819	-.286330	.001859	-.01031	-.00123
NOV	18	48213	.18075	.10654	-.288120	.001724	-.01048	-.00127
NOV	19	48214	.17761	.10521	-.289798	.001656	-.01042	-.00117
NOV	20	48215	.17483	.10394	-.291454	.001674	-.00997	-.00102
NOV	21	48216	.17222	.10250	-.293169	.001763	-.00940	-.00070
NOV	22	48217	.16949	.10080	-.295000	.001896	-.00910	-.00062
NOV	23	48218	.16639	.09897	-.296977	.002062	-.00922	-.00059
NOV	24	48219	.16280	.09733	-.299133	.002259	-.00940	-.00064
NOV	25	48220	.15915	.09599	-.301496	.002474	-.00945	-.00071
NOV	26	48221	.15574	.09479	-.304072	.002674	-.00943	-.00061
NOV	27	48222	.15236	.09359	-.306822	.002799	-.00949	-.00058
NOV	28	48223	.14862	.09226	-.309638	.002827	-.00945	-.00041
NOV	29	48224	.14447	.09094	-.312437	.002758	-.00944	-.00040
NOV	30	48225	.14010	.08979	-.315122	.002587	-.00959	-.00034
DEC	1	48226	.13597	.08871	-.317597	.002351	-.00958	-.00038
DEC	2	48227	.13235	.08760	-.319835	.002127	-.00901	-.00031
DEC	3	48228	.12907	.08648	-.321886	.002003	-.00831	-.00030
DEC	4	48229	.12587	.08537	-.323887	.002035	-.00744	-.00022
DEC	5	48230	.12256	.08451	-.325995	.002185	-.00719	-.00038
DEC	6	48231	.11894	.08373	-.328273	.002361	-.00722	-.00038
DEC	7	48232	.11505	.08264	-.330706	.002499	-.00740	-.00044
DEC	8	48233	.11136	.08152	-.333243	.002573	-.00764	-.00049
DEC	9	48234	.10832	.08076	-.335818	.002563	-.00803	-.00047
DEC	10	48235	.10531	.07982	-.338341	.002460	-.00815	-.00030
DEC	11	48236	.10213	.07865	-.340717	.002272	-.00822	-.00008
DEC	12	48237	.09883	.07746	-.342875	.002036	-.00856	-.00014
DEC	13	48238	.09503	.07658	-.344786	.001800	-.00881	-.00015
DEC	14	48239	.09100	.07575	-.346478	.001612	-.00881	.00001
DEC	15	48240	.08716	.07463	-.348021	.001493	-.00824	.00027
DEC	16	48241	.08366	.07341	-.349480	.001425	-.00772	.00035
DEC	17	48242	.08046	.07225	-.350891	.001394	-.00759	.00029
DEC	18	48243	.07735	.07118	-.352292	.001426	-.00772	.00009
DEC	19	48244	.07404	.07021	-.353762	.001557	-.00779	-.00015
DEC	20	48245	.07098	.06989	-.355422	.001766	-.00776	-.00033
DEC	21	48246	.06799	.07011	-.357302	.001978	-.00779	-.00029
DEC	22	48247	.06449	.07031	-.359378	.002164	-.00759	-.00035
DEC	23	48248	.06043	.07030	-.361623	.002327	-.00723	-.00034

DEC	24	48249	.05613	.07026	-.364015	.002452	-.00697	-.00038
DEC	25	48250	.05198	.07017	-.366502	.002512	-.00694	-.00009
DEC	26	48251	.04817	.07001	-.369009	.002483	-.00706	.00013
DEC	27	48252	.04431	.06984	-.371437	.002353	-.00736	.00021
DEC	28	48253	.04010	.06977	-.373694	.002152	-.00790	.00026
DEC	29	48254	.03542	.06977	-.375742	.001958	-.00848	.00013
DEC	30	48255	.03084	.06980	-.377636	.001840	-.00852	.00013
DEC	31	48256	.02657	.06988	-.379464	.001828	-.00826	.00018