

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 ==> 1987								
JAN	1	46796	.14540	.31244	-.138212	.001119	-.00198	.00276
JAN	2	46797	.14573	.31129	-.139428	.001331	-.00176	.00287
JAN	3	46798	.14619	.31028	-.140883	.001581	-.00159	.00302
JAN	4	46799	.14668	.30930	-.142571	.001777	-.00149	.00316
JAN	5	46800	.14697	.30804	-.144399	.001864	-.00154	.00336
JAN	6	46801	.14701	.30667	-.146256	.001834	-.00169	.00342
JAN	7	46802	.14680	.30537	-.148034	.001707	-.00166	.00350
JAN	8	46803	.14631	.30414	-.149650	.001510	-.00177	.00353
JAN	9	46804	.14552	.30288	-.151046	.001273	-.00187	.00350
JAN	10	46805	.14437	.30144	-.152197	.001028	-.00190	.00346
JAN	11	46806	.14309	.29980	-.153112	.000807	-.00197	.00332
JAN	12	46807	.14192	.29802	-.153830	.000642	-.00190	.00322
JAN	13	46808	.14099	.29625	-.154420	.000562	-.00185	.00318
JAN	14	46809	.14042	.29465	-.154979	.000577	-.00188	.00311
JAN	15	46810	.14022	.29330	-.155600	.000681	-.00209	.00299
JAN	16	46811	.14027	.29213	-.156360	.000851	-.00222	.00292
JAN	17	46812	.14043	.29093	-.157315	.001063	-.00211	.00297
JAN	18	46813	.14058	.28947	-.158490	.001286	-.00187	.00310
JAN	19	46814	.14056	.28778	-.159879	.001485	-.00155	.00319
JAN	20	46815	.14019	.28589	-.161442	.001631	-.00122	.00332
JAN	21	46816	.13947	.28403	-.163115	.001700	-.00097	.00338
JAN	22	46817	.13852	.28241	-.164812	.001674	-.00095	.00349
JAN	23	46818	.13769	.28123	-.166429	.001542	-.00020	.00340
JAN	24	46819	.13724	.28044	-.167869	.001325	-.00108	.00341
JAN	25	46820	.13697	.27953	-.169069	.001078	-.00139	.00328
JAN	26	46821	.13684	.27848	-.170039	.000878	-.00169	.00320
JAN	27	46822	.13681	.27739	-.170862	.000793	-.00182	.00308
JAN	28	46823	.13678	.27647	-.171677	.000867	-.00187	.00303
JAN	29	46824	.13660	.27574	-.172643	.001091	-.00171	.00293
JAN	30	46825	.13608	.27513	-.173883	.001402	-.00119	.00277
JAN	31	46826	.13513	.27449	-.175440	.001702	-.00084	.00281
FEB	1	46827	.13390	.27364	-.177252	.001902	-.00085	.00284
FEB	2	46828	.13258	.27239	-.179197	.001963	-.00107	.00301
FEB	3	46829	.13126	.27088	-.181134	.001894	-.00134	.00302
FEB	4	46830	.13007	.26921	-.182955	.001733	-.00158	.00296
FEB	5	46831	.12915	.26763	-.184586	.001525	-.00182	.00295
FEB	6	46832	.12852	.26623	-.186006	.001314	-.00201	.00301
FEB	7	46833	.12824	.26488	-.187226	.001132	-.00223	.00286
FEB	8	46834	.12821	.26353	-.188288	.000995	-.00240	.00275

FEB	9	46835	.12812	.26226	-.189239	.000911	-.00227	.00249
FEB	10	46836	.12777	.26123	-.190137	.000900	-.00210	.00229
FEB	11	46837	.12733	.26040	-.191064	.000976	-.00187	.00236
FEB	12	46838	.12699	.25960	-.192111	.001130	-.00165	.00248
FEB	13	46839	.12671	.25880	-.193342	.001335	-.00129	.00252
FEB	14	46840	.12639	.25803	-.194787	.001560	-.00070	.00266
FEB	15	46841	.12604	.25723	-.196457	.001777	-.00015	.00277
FEB	16	46842	.12571	.25644	-.198326	.001953	.00030	.00282
FEB	17	46843	.12542	.25570	-.200336	.002052	.00044	.00270
FEB	18	46844	.12505	.25495	-.202396	.002046	.00012	.00262
FEB	19	46845	.12446	.25403	-.204394	.001935	-.00067	.00250
FEB	20	46846	.12386	.25304	-.206239	.001752	-.00130	.00246
FEB	21	46847	.12344	.25207	-.207886	.001546	-.00177	.00232
FEB	22	46848	.12318	.25111	-.209341	.001378	-.00190	.00222
FEB	23	46849	.12290	.25006	-.210671	.001302	-.00174	.00198
FEB	24	46850	.12241	.24881	-.211992	.001364	-.00098	.00181
FEB	25	46851	.12181	.24741	-.213446	.001570	-.00028	.00159
FEB	26	46852	.12140	.24608	-.215168	.001884	.00039	.00162
FEB	27	46853	.12122	.24494	-.217224	.002226	.00089	.00177
FEB	28	46854	.12112	.24404	-.219598	.002508	.00113	.00200
MAR	1	46855	.12071	.24319	-.222198	.002665	.00104	.00199
MAR	2	46856	.11984	.24221	-.224878	.002664	.00078	.00192
MAR	3	46857	.11864	.24103	-.227483	.002515	.00032	.00188
MAR	4	46858	.11731	.23960	-.229881	.002257	-.00016	.00169
MAR	5	46859	.11601	.23791	-.231990	.001948	-.00050	.00155
MAR	6	46860	.11473	.23600	-.233786	.001639	-.00067	.00131
MAR	7	46861	.11347	.23417	-.235285	.001370	-.00059	.00118
MAR	8	46862	.11232	.23251	-.236549	.001178	-.00020	.00140
MAR	9	46863	.11138	.23094	-.237667	.001084	-.00021	.00098
MAR	10	46864	.11075	.22940	-.238745	.001103	.00003	.00103
MAR	11	46865	.11043	.22786	-.239897	.001227	.00019	.00103
MAR	12	46866	.11033	.22642	-.241218	.001425	.00031	.00107
MAR	13	46867	.11027	.22524	-.242758	.001657	.00025	.00112
MAR	14	46868	.11019	.22430	-.244531	.001884	.00004	.00114
MAR	15	46869	.11012	.22354	-.246515	.002074	-.00028	.00111
MAR	16	46870	.11009	.22292	-.248656	.002196	-.00065	.00111
MAR	17	46871	.11008	.22249	-.250870	.002218	-.00109	.00116
MAR	18	46872	.11002	.22228	-.253054	.002134	-.00132	.00104
MAR	19	46873	.10979	.22222	-.255107	.001959	-.00151	.00100
MAR	20	46874	.10926	.22205	-.256957	.001735	-.00143	.00086
MAR	21	46875	.10832	.22159	-.258582	.001524	-.00100	.00075
MAR	22	46876	.10686	.22090	-.260030	.001387	-.00046	.00049
MAR	23	46877	.10499	.22007	-.261397	.001364	.00011	.00039
MAR	24	46878	.10299	.21917	-.262803	.001464	.00053	.00026
MAR	25	46879	.10109	.21831	-.264364	.001670	.00085	.00028
MAR	26	46880	.09945	.21753	-.266161	.001926	.00131	.00022
MAR	27	46881	.09815	.21683	-.268208	.002155	.00150	.00026
MAR	28	46882	.09725	.21624	-.270439	.002287	.00134	.00037
MAR	29	46883	.09662	.21565	-.272734	.002283	.00100	.00052
MAR	30	46884	.09608	.21494	-.274957	.002155	.00063	.00060
MAR	31	46885	.09548	.21407	-.277010	.001951	.00012	.00072
APR	1	46886	.09480	.21311	-.278842	.001719	-.00017	.00070
APR	2	46887	.09424	.21231	-.280449	.001501	-.00030	.00065

APR	3	46888	.09387	.21188	-.281858	.001320	-.00026	.00052
APR	4	46889	.09347	.21169	-.283111	.001192	.00001	.00032
APR	5	46890	.09288	.21161	-.284268	.001130	.00047	.00018
APR	6	46891	.09206	.21150	-.285400	.001148	.00103	-.00009
APR	7	46892	.09103	.21134	-.286589	.001241	.00162	-.00030
APR	8	46893	.08984	.21116	-.287903	.001396	.00209	-.00037
APR	9	46894	.08852	.21096	-.289394	.001589	.00239	-.00043
APR	10	46895	.08706	.21065	-.291085	.001791	.00263	-.00040
APR	11	46896	.08551	.21025	-.292970	.001971	.00253	-.00031
APR	12	46897	.08397	.20986	-.295008	.002091	.00227	-.00008
APR	13	46898	.08244	.20938	-.297121	.002122	.00181	.00008
APR	14	46899	.08090	.20873	-.299211	.002048	.00124	.00028
APR	15	46900	.07933	.20787	-.301177	.001876	.00050	.00025
APR	16	46901	.07779	.20692	-.302938	.001641	.00003	.00000
APR	17	46902	.07636	.20609	-.304457	.001399	.00002	-.00042
APR	18	46903	.07507	.20545	-.305758	.001215	.00022	-.00080
APR	19	46904	.07384	.20493	-.306927	.001138	.00069	-.00112
APR	20	46905	.07262	.20443	-.308080	.001189	.00154	-.00117
APR	21	46906	.07148	.20397	-.309342	.001352	.00220	-.00116
APR	22	46907	.07066	.20370	-.310805	.001587	.00271	-.00112
APR	23	46908	.07019	.20367	-.312514	.001838	.00275	-.00108
APR	24	46909	.06993	.20381	-.314460	.002050	.00254	-.00096
APR	25	46910	.06953	.20388	-.316577	.002168	.00261	-.00079
APR	26	46911	.06882	.20389	-.318754	.002161	.00285	-.00059
APR	27	46912	.06780	.20394	-.320862	.002032	.00321	-.00045
APR	28	46913	.06653	.20398	-.322795	.001813	.00337	-.00036
APR	29	46914	.06506	.20391	-.324481	.001552	.00339	-.00040
APR	30	46915	.06348	.20364	-.325905	.001307	.00307	-.00054
MAY	1	46916	.06182	.20334	-.327115	.001120	.00281	-.00075
MAY	2	46917	.06012	.20305	-.328172	.001003	.00285	-.00091
MAY	3	46918	.05848	.20275	-.329149	.000958	.00302	-.00101
MAY	4	46919	.05707	.20235	-.330113	.000982	.00334	-.00114
MAY	5	46920	.05603	.20176	-.331134	.001071	.00355	-.00142
MAY	6	46921	.05536	.20113	-.332270	.001210	.00371	-.00157
MAY	7	46922	.05487	.20065	-.333561	.001381	.00380	-.00144
MAY	8	46923	.05435	.20038	-.335031	.001565	.00374	-.00123
MAY	9	46924	.05359	.20027	-.336679	.001734	.00339	-.00098
MAY	10	46925	.05256	.20017	-.338475	.001852	.00252	-.00070
MAY	11	46926	.05132	.20003	-.340347	.001876	.00161	-.00048
MAY	12	46927	.04993	.19988	-.342187	.001780	.00093	-.00030
MAY	13	46928	.04843	.19972	-.343874	.001572	.00050	-.00035
MAY	14	46929	.04683	.19950	-.345317	.001302	.00054	-.00049
MAY	15	46930	.04515	.19919	-.346491	.001060	.00082	-.00068
MAY	16	46931	.04342	.19879	-.347475	.000932	.00137	-.00082
MAY	17	46932	.04171	.19833	-.348406	.000953	.00203	-.00099
MAY	18	46933	.04011	.19785	-.349427	.001105	.00283	-.00100
MAY	19	46934	.03878	.19744	-.350642	.001333	.00339	-.00087
MAY	20	46935	.03782	.19722	-.352092	.001570	.00359	-.00093
MAY	21	46936	.03719	.19732	-.353760	.001763	.00352	-.00080
MAY	22	46937	.03666	.19776	-.355584	.001876	.00323	-.00071
MAY	23	46938	.03596	.19841	-.357474	.001891	.00276	-.00068
MAY	24	46939	.03483	.19907	-.359330	.001806	.00241	-.00072
MAY	25	46940	.03330	.19958	-.361062	.001641	.00203	-.00072

MAY	26	46941	.03162	.19987	-.362604	.001429	.00180	-.00075
MAY	27	46942	.03002	.19989	-.363924	.001208	.00173	-.00100
MAY	28	46943	.02870	.19967	-.365034	.001015	.00182	-.00122
MAY	29	46944	.02774	.19930	-.365979	.000877	.00193	-.00140
MAY	30	46945	.02714	.19899	-.366816	.000805	.00180	-.00142
MAY	31	46946	.02676	.19876	-.367615	.000801	.00174	-.00147
JUN	1	46947	.02643	.19855	-.368439	.000845	.00160	-.00136
JUN	2	46948	.02595	.19831	-.369322	.000925	.00141	-.00122
JUN	3	46949	.02539	.19811	-.370297	.001034	.00125	-.00098
JUN	4	46950	.02484	.19806	-.371390	.001168	.00133	-.00086
JUN	5	46951	.02429	.19814	-.372624	.001313	.00141	-.00069
JUN	6	46952	.02375	.19835	-.373999	.001446	.00154	-.00059
JUN	7	46953	.02326	.19867	-.375488	.001527	.00140	-.00055
JUN	8	46954	.02280	.19905	-.377018	.001514	.00117	-.00066
JUN	9	46955	.02223	.19938	-.378479	.001386	.00079	-.00070
JUN	10	46956	.02142	.19957	-.379766	.001168	.00048	-.00074
JUN	11	46957	.02025	.19953	-.380814	.000924	.00021	-.00086
JUN	12	46958	.01873	.19928	-.381643	.000745	.00015	-.00091
JUN	13	46959	.01699	.19893	-.382354	.000699	-.00020	-.00050
JUN	14	46960	.01526	.19867	-.383092	.000799	-.00016	-.00074
JUN	15	46961	.01376	.19872	-.383988	.001006	-.00035	-.00062
JUN	16	46962	.01257	.19912	-.385111	.001243	-.00059	-.00047
JUN	17	46963	.01166	.19985	-.386452	.001430	-.00081	-.00033
JUN	18	46964	.01092	.20074	-.387932	.001517	-.00097	-.00003
JUN	19	46965	.01019	.20163	-.389443	.001492	-.00112	.00022
JUN	20	46966	.00926	.20226	-.390880	.001366	-.00108	.00030
JUN	21	46967	.00812	.20259	-.392153	.001163	-.00109	.00032
JUN	22	46968	.00690	.20278	-.393197	.000917	-.00107	.00009
JUN	23	46969	.00569	.20297	-.393989	.000668	-.00020	-.00010
JUN	24	46970	.00452	.20322	-.394547	.000455	-.00106	-.00039
JUN	25	46971	.00332	.20361	-.394919	.000303	-.00108	-.00058
JUN	26	46972	.00203	.20423	-.395178	.000226	-.00122	-.00072
JUN	27	46973	.00050	.20501	-.395398	.000223	-.00156	-.00079
JUN	28	46974	-.00118	.20578	-.395649	.000292	-.00187	-.00060
JUN	29	46975	-.00282	.20630	-.395999	.000421	-.00201	-.00037
JUN	30	46976	-.00428	.20664	-.396501	.000593	-.00191	-.00022
JUL	1	46977	-.00550	.20695	-.397185	.000778	-.00178	.00001
JUL	2	46978	-.00648	.20733	-.398048	.000944	-.00148	-.00001
JUL	3	46979	-.00734	.20774	-.399057	.001061	-.00134	-.00008
JUL	4	46980	-.00818	.20812	-.400147	.001101	-.00160	.00008
JUL	5	46981	-.00905	.20844	-.401231	.001049	-.00227	.00018
JUL	6	46982	-.00994	.20878	-.402214	.000907	-.00300	.00034
JUL	7	46983	-.01082	.20927	-.403019	.000701	-.00377	.00040
JUL	8	46984	-.01175	.20998	-.403607	.000483	-.00438	.00037
JUL	9	46985	-.01292	.21093	-.403999	.000313	-.00486	.00020
JUL	10	46986	-.01432	.21190	-.404274	.000252	-.00500	.00018
JUL	11	46987	-.01583	.21260	-.404556	.000329	-.00465	.00013
JUL	12	46988	-.01739	.21294	-.404978	.000531	-.00430	.00014
JUL	13	46989	-.01904	.21310	-.405641	.000799	-.00399	.00008
JUL	14	46990	-.02071	.21332	-.406566	.001041	-.00385	.00012
JUL	15	46991	-.02226	.21372	-.407684	.001176	-.00397	.00024
JUL	16	46992	-.02349	.21435	-.408867	.001174	-.00440	.00021
JUL	17	46993	-.02431	.21519	-.409986	.001056	-.00497	.00021

JUL	18	46994	-.02482	.21616	-.410948	.000861	-.00570	.00015
JUL	19	46995	-.02518	.21720	-.411696	.000625	-.00653	-.00006
JUL	20	46996	-.02549	.21814	-.412201	.000379	-.00711	-.00031
JUL	21	46997	-.02577	.21893	-.412467	.000159	-.00732	-.00045
JUL	22	46998	-.02599	.21969	-.412541	.000003	-.00718	-.00046
JUL	23	46999	-.02615	.22052	-.412497	-.000069	-.00684	-.00062
JUL	24	47000	-.02619	.22146	-.412428	-.000050	-.00647	-.00061
JUL	25	47001	-.02612	.22239	-.412421	.000047	-.00615	-.00044
JUL	26	47002	-.02608	.22323	-.412542	.000196	-.00594	-.00021
JUL	27	47003	-.02612	.22397	-.412825	.000369	-.00589	.00013
JUL	28	47004	-.02624	.22469	-.413282	.000551	-.00601	.00037
JUL	29	47005	-.02641	.22543	-.413919	.000717	-.00627	.00047
JUL	30	47006	-.02661	.22623	-.414701	.000833	-.00652	.00052
JUL	31	47007	-.02690	.22710	-.415564	.000878	-.00689	.00050
AUG	1	47008	-.02724	.22800	-.416430	.000845	-.00719	.00032
AUG	2	47009	-.02781	.22900	-.417226	.000744	-.00738	-.00001
AUG	3	47010	-.02873	.23015	-.417895	.000590	-.00750	-.00025
AUG	4	47011	-.02973	.23126	-.418394	.000405	-.00755	-.00059
AUG	5	47012	-.03059	.23222	-.418711	.000233	-.00747	-.00078
AUG	6	47013	-.03125	.23298	-.418890	.000140	-.00741	-.00082
AUG	7	47014	-.03175	.23362	-.419038	.000186	-.00735	-.00079
AUG	8	47015	-.03219	.23426	-.419313	.000390	-.00726	-.00050
AUG	9	47016	-.03263	.23501	-.419856	.000703	-.00731	-.00027
AUG	10	47017	-.03312	.23588	-.420725	.001024	-.00752	-.00012
AUG	11	47018	-.03363	.23678	-.421876	.001256	-.00769	-.00029
AUG	12	47019	-.03416	.23767	-.423185	.001344	-.00798	-.00071
AUG	13	47020	-.03483	.23855	-.424508	.001282	-.00845	-.00098
AUG	14	47021	-.03556	.23942	-.425706	.001101	-.00890	-.00112
AUG	15	47022	-.03625	.24032	-.426688	.000862	-.00927	-.00132
AUG	16	47023	-.03676	.24125	-.427430	.000629	-.00950	-.00136
AUG	17	47024	-.03711	.24218	-.427959	.000443	-.00957	-.00130
AUG	18	47025	-.03735	.24308	-.428340	.000329	-.00947	-.00123
AUG	19	47026	-.03756	.24401	-.428644	.000292	-.00926	-.00120
AUG	20	47027	-.03775	.24510	-.428950	.000336	-.00899	-.00122
AUG	21	47028	-.03786	.24642	-.429342	.000459	-.00884	-.00106
AUG	22	47029	-.03782	.24798	-.429889	.000646	-.00859	-.00096
AUG	23	47030	-.03766	.24968	-.430649	.000876	-.00849	-.00082
AUG	24	47031	-.03745	.25143	-.431647	.001115	-.00846	-.00047
AUG	25	47032	-.03735	.25316	-.432873	.001324	-.00828	-.00026
AUG	26	47033	-.03743	.25477	-.434279	.001473	-.00820	-.00019
AUG	27	47034	-.03760	.25624	-.435794	.001543	-.00807	-.00009
AUG	28	47035	-.03773	.25753	-.437337	.001526	-.00841	-.00015
AUG	29	47036	-.03777	.25862	-.438818	.001421	-.00903	-.00017
AUG	30	47037	-.03781	.25956	-.440156	.001239	-.00971	-.00031
AUG	31	47038	-.03794	.26034	-.441284	.001014	-.01042	-.00035
SEP	1	47039	-.03828	.26111	-.442186	.000798	-.01087	-.00046
SEP	2	47040	-.03895	.26200	-.442900	.000651	-.01063	-.00052
SEP	3	47041	-.03968	.26299	-.443528	.000630	-.01007	-.00061
SEP	4	47042	-.04031	.26401	-.444209	.000762	-.00945	-.00053
SEP	5	47043	-.04073	.26498	-.445095	.001037	-.00894	-.00051
SEP	6	47044	-.04090	.26574	-.446306	.001398	-.00859	-.00047
SEP	7	47045	-.04100	.26619	-.447881	.001738	-.00871	-.00033
SEP	8	47046	-.04114	.26650	-.449740	.001945	-.00898	-.00023

SEP	9	47047	-.04141	.26695	-.451713	.001966	-.00953	-.00018
SEP	10	47048	-.04184	.26774	-.453619	.001826	-.00999	-.00020
SEP	11	47049	-.04238	.26878	-.455329	.001588	-.01040	-.00018
SEP	12	47050	-.04294	.26988	-.456783	.001314	-.01058	-.00021
SEP	13	47051	-.04352	.27104	-.457967	.001050	-.01070	-.00026
SEP	14	47052	-.04406	.27235	-.458906	.000834	-.01075	-.00039
SEP	15	47053	-.04453	.27383	-.459663	.000696	-.01067	-.00049
SEP	16	47054	-.04495	.27529	-.460327	.000664	-.01051	-.00052
SEP	17	47055	-.04538	.27652	-.461017	.000744	-.01015	-.00049
SEP	18	47056	-.04595	.27751	-.461839	.000915	-.00976	-.00040
SEP	19	47057	-.04668	.27833	-.462865	.001143	-.00931	-.00026
SEP	20	47058	-.04741	.27907	-.464133	.001392	-.00912	-.00002
SEP	21	47059	-.04807	.27985	-.465648	.001633	-.00889	.00011
SEP	22	47060	-.04868	.28087	-.467386	.001833	-.00869	.00040
SEP	23	47061	-.04935	.28221	-.469293	.001963	-.00865	.00052
SEP	24	47062	-.05015	.28384	-.471282	.001997	-.00871	.00058
SEP	25	47063	-.05094	.28569	-.473256	.001934	-.00908	.00058
SEP	26	47064	-.05157	.28764	-.475123	.001785	-.00940	.00034
SEP	27	47065	-.05200	.28960	-.476810	.001573	-.00946	.00009
SEP	28	47066	-.05236	.29151	-.478270	.001340	-.00947	-.00013
SEP	29	47067	-.05294	.29321	-.479509	.001139	-.00905	-.00030
SEP	30	47068	-.05383	.29461	-.480585	.001039	-.00858	-.00032
OCT	1	47069	-.05475	.29576	-.481631	.001093	-.00814	-.00026
OCT	2	47070	-.05544	.29682	-.482813	.001307	-.00789	-.00005
OCT	3	47071	-.05579	.29802	-.484272	.001628	-.00779	.00009
OCT	4	47072	-.05596	.29938	-.486072	.001968	-.00786	.00033
OCT	5	47073	-.05619	.30080	-.488182	.002237	-.00808	.00055
OCT	6	47074	-.05663	.30214	-.490497	.002369	-.00841	.00071
OCT	7	47075	-.05728	.30334	-.492864	.002335	-.00878	.00071
OCT	8	47076	-.05792	.30443	-.495122	.002151	-.00911	.00065
OCT	9	47077	-.05840	.30550	-.497139	.001870	-.00924	.00063
OCT	10	47078	-.05871	.30668	-.498860	.001574	-.00921	.00059
OCT	11	47079	-.05897	.30806	-.500304	.001327	-.00901	.00045
OCT	12	47080	-.05933	.30960	-.501543	.001161	-.00857	.00034
OCT	13	47081	-.05986	.31118	-.502657	.001081	-.00803	.00038
OCT	14	47082	-.06058	.31258	-.503732	.001082	-.00746	.00039
OCT	15	47083	-.06145	.31370	-.504846	.001161	-.00694	.00047
OCT	16	47084	-.06236	.31458	-.506071	.001307	-.00654	.00039
OCT	17	47085	-.06318	.31537	-.507471	.001501	-.00639	.00024
OCT	18	47086	-.06375	.31626	-.509076	.001705	-.00632	.00017
OCT	19	47087	-.06395	.31737	-.510874	.001882	-.00608	.00027
OCT	20	47088	-.06379	.31868	-.512823	.002008	-.00614	.00062
OCT	21	47089	-.06338	.32008	-.514864	.002066	-.00630	.00100
OCT	22	47090	-.06290	.32142	-.516923	.002042	-.00660	.00121
OCT	23	47091	-.06254	.32261	-.518916	.001930	-.00708	.00139
OCT	24	47092	-.06236	.32356	-.520759	.001739	-.00740	.00144
OCT	25	47093	-.06238	.32435	-.522387	.001507	-.00755	.00131
OCT	26	47094	-.06255	.32515	-.523789	.001300	-.00756	.00101
OCT	27	47095	-.06279	.32611	-.525021	.001185	-.00740	.00078
OCT	28	47096	-.06295	.32728	-.526202	.001206	-.00714	.00051
OCT	29	47097	-.06296	.32860	-.527475	.001364	-.00666	.00041
OCT	30	47098	-.06277	.32997	-.528958	.001615	-.00581	.00054
OCT	31	47099	-.06255	.33148	-.530711	.001891	-.00502	.00078

NOV	1	47100	-.06236	.33312	-.532725	.002129	-.00419	.00111
NOV	2	47101	-.06230	.33474	-.534934	.002279	-.00380	.00150
NOV	3	47102	-.06233	.33624	-.537236	.002307	-.00396	.00172
NOV	4	47103	-.06233	.33750	-.539504	.002206	-.00451	.00178
NOV	5	47104	-.06217	.33854	-.541616	.001997	-.00508	.00167
NOV	6	47105	-.06173	.33958	-.543486	.001728	-.00530	.00154
NOV	7	47106	-.06100	.34074	-.545080	.001465	-.00536	.00129
NOV	8	47107	-.06007	.34210	-.546439	.001269	-.00546	.00117
NOV	9	47108	-.05907	.34368	-.547648	.001174	-.00544	.00119
NOV	10	47109	-.05816	.34547	-.548818	.001185	-.00508	.00128
NOV	11	47110	-.05749	.34743	-.550047	.001287	-.00443	.00144
NOV	12	47111	-.05707	.34948	-.551411	.001452	-.00369	.00155
NOV	13	47112	-.05680	.35152	-.552963	.001650	-.00319	.00159
NOV	14	47113	-.05663	.35346	-.554715	.001843	-.00306	.00163
NOV	15	47114	-.05649	.35522	-.556644	.001998	-.00309	.00165
NOV	16	47115	-.05632	.35674	-.558698	.002096	-.00332	.00161
NOV	17	47116	-.05594	.35810	-.560814	.002127	-.00359	.00161
NOV	18	47117	-.05533	.35938	-.562925	.002088	-.00382	.00165
NOV	19	47118	-.05466	.36065	-.564957	.001976	-.00414	.00163
NOV	20	47119	-.05419	.36197	-.566849	.001805	-.00431	.00169
NOV	21	47120	-.05404	.36343	-.568552	.001602	-.00441	.00175
NOV	22	47121	-.05422	.36506	-.570058	.001412	-.00436	.00174
NOV	23	47122	-.05460	.36680	-.571403	.001288	-.00432	.00178
NOV	24	47123	-.05515	.36866	-.572678	.001277	-.00425	.00190
NOV	25	47124	-.05583	.37062	-.574004	.001391	-.00424	.00197
NOV	26	47125	-.05664	.37251	-.575492	.001600	-.00424	.00199
NOV	27	47126	-.05757	.37422	-.577213	.001849	-.00430	.00214
NOV	28	47127	-.05856	.37569	-.579174	.002074	-.00422	.00218
NOV	29	47128	-.05957	.37688	-.581326	.002223	-.00419	.00228
NOV	30	47129	-.06039	.37793	-.583578	.002259	-.00424	.00232
DEC	1	47130	-.06088	.37895	-.585803	.002166	-.00411	.00240
DEC	2	47131	-.06096	.38008	-.587880	.001969	-.00401	.00251
DEC	3	47132	-.06064	.38130	-.589725	.001712	-.00388	.00248
DEC	4	47133	-.06006	.38252	-.591306	.001451	-.00359	.00244
DEC	5	47134	-.05934	.38369	-.592644	.001235	-.00324	.00250
DEC	6	47135	-.05846	.38491	-.593802	.001098	-.00276	.00241
DEC	7	47136	-.05750	.38616	-.594868	.001045	-.00230	.00238
DEC	8	47137	-.05653	.38737	-.595921	.001067	-.00204	.00231
DEC	9	47138	-.05560	.38848	-.597026	.001151	-.00195	.00231
DEC	10	47139	-.05469	.38955	-.598238	.001287	-.00200	.00224
DEC	11	47140	-.05376	.39065	-.599607	.001457	-.00192	.00239
DEC	12	47141	-.05264	.39193	-.601149	.001627	-.00180	.00251
DEC	13	47142	-.05124	.39345	-.602850	.001765	-.00180	.00270
DEC	14	47143	-.04960	.39521	-.604663	.001849	-.00197	.00282
DEC	15	47144	-.04792	.39707	-.606525	.001864	-.00232	.00287
DEC	16	47145	-.04646	.39877	-.608364	.001806	-.00288	.00287
DEC	17	47146	-.04535	.40007	-.610111	.001680	-.00341	.00273
DEC	18	47147	-.04456	.40094	-.611704	.001507	-.00386	.00249
DEC	19	47148	-.04391	.40153	-.613117	.001328	-.00406	.00227
DEC	20	47149	-.04311	.40217	-.614378	.001209	-.00414	.00219
DEC	21	47150	-.04210	.40287	-.615576	.001208	-.00397	.00208
DEC	22	47151	-.04083	.40368	-.616845	.001345	-.00383	.00214
DEC	23	47152	-.03945	.40450	-.618309	.001591	-.00358	.00215

DEC	24	47153	-.03806	.40527	-.620047	.001882	-.00339	.00219
DEC	25	47154	-.03670	.40601	-.622060	.002134	-.00336	.00243
DEC	26	47155	-.03528	.40677	-.624277	.002279	-.00339	.00265
DEC	27	47156	-.03374	.40755	-.626569	.002287	-.00362	.00281
DEC	28	47157	-.03209	.40834	-.628804	.002172	-.00379	.00291
DEC	29	47158	-.03027	.40923	-.630881	.001968	-.00402	.00304
DEC	30	47159	-.02830	.41045	-.632725	.001711	-.00414	.00303
DEC	31	47160	-.02620	.41198	-.634304	.001451	-.00431	.00298