

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

FORMAT(2X,A4,I3,2X,I5,2F9.6,F10.7,2X,F10.7,2X,2F9.5)

Date	MJD	x	y	UT1-UTC	LOD	dPsi	dEpsilon
		"	"	s	s	"	"

(0h UTC)

YEAR ==> 1998

JAN	1	50814	.102606	.174584	.2181306	.0014927	-.04049	-.00442
JAN	2	50815	.100300	.173693	.2165683	.0016559	-.04015	-.00428
JAN	3	50816	.097729	.173015	.2148254	.0018590	-.04006	-.00416
JAN	4	50817	.095414	.172852	.2128670	.0020421	-.04009	-.00409
JAN	5	50818	.092986	.172410	.2107632	.0021003	-.04026	-.00399
JAN	6	50819	.090539	.171627	.2086887	.0020245	-.04060	-.00405
JAN	7	50820	.088124	.171241	.2067321	.0019123	-.04093	-.00416
JAN	8	50821	.085452	.170574	.2048742	.0017778	-.04111	-.00430
JAN	9	50822	.082455	.169813	.2031771	.0015913	-.04122	-.00444
JAN	10	50823	.079496	.168996	.2016828	.0014341	-.04129	-.00456
JAN	11	50824	.076350	.168505	.2002938	.0013842	-.04125	-.00451
JAN	12	50825	.072784	.168290	.1988978	.0014103	-.04128	-.00451
JAN	13	50826	.069380	.167977	.1974593	.0014673	-.04136	-.00434
JAN	14	50827	.066588	.167736	.1959546	.0015549	-.04145	-.00412
JAN	15	50828	.063793	.167623	.1943462	.0016351	-.04149	-.00407
JAN	16	50829	.060597	.167544	.1926853	.0016687	-.04141	-.00403
JAN	17	50830	.057335	.167526	.1910126	.0017013	-.04127	-.00413
JAN	18	50831	.054190	.167369	.1892887	.0017421	-.04121	-.00428
JAN	19	50832	.051236	.167646	.1875362	.0017526	-.04108	-.00450
JAN	20	50833	.048248	.168215	.1857914	.0017452	-.04119	-.00468
JAN	21	50834	.044837	.168185	.1840522	.0017404	-.04137	-.00471
JAN	22	50835	.041368	.167756	.1823141	.0017181	-.04190	-.00465
JAN	23	50836	.037960	.167254	.1806161	.0016895	-.04246	-.00449
JAN	24	50837	.034817	.167225	.1789316	.0016985	-.04298	-.00438
JAN	25	50838	.031809	.166977	.1772109	.0017103	-.04312	-.00432
JAN	26	50839	.028685	.166492	.1754972	.0017215	-.04286	-.00449
JAN	27	50840	.025863	.166779	.1737499	.0018111	-.04227	-.00470
JAN	28	50841	.023297	.167300	.1718574	.0020047	-.04141	-.00487
JAN	29	50842	.020465	.167771	.1697300	.0022546	-.04071	-.00492
JAN	30	50843	.017522	.168445	.1673509	.0024525	-.04048	-.00459
JAN	31	50844	.014482	.169075	.1648418	.0025240	-.04078	-.00431
FEB	1	50845	.011273	.169536	.1623292	.0025400	-.04134	-.00408
FEB	2	50846	.008430	.170110	.1597896	.0025456	-.04190	-.00402
FEB	3	50847	.004674	.171007	.1572601	.0024882	-.04207	-.00422
FEB	4	50848	.001931	.171848	.1548250	.0023978	-.04170	-.00455
FEB	5	50849	-.001393	.172418	.1524652	.0023204	-.04137	-.00490
FEB	6	50850	-.004887	.173447	.1501755	.0021999	-.04108	-.00522
FEB	7	50851	-.007534	.174167	.1480504	.0020678	-.04086	-.00530
FEB	8	50852	-.009974	.174740	.1460225	.0020430	-.04080	-.00532

FEB	9	50853	-.012279	.175240	.1439488	.0020306	-.04085	-.00527
FEB	10	50854	-.014900	.175309	.1419501	.0019453	-.04090	-.00516
FEB	11	50855	-.017888	.175396	.1400528	.0019108	-.04089	-.00512
FEB	12	50856	-.020627	.175790	.1381282	.0019554	-.04075	-.00528
FEB	13	50857	-.022973	.176240	.1361458	.0019950	-.04067	-.00546
FEB	14	50858	-.025001	.176674	.1341444	.0019905	-.04070	-.00579
FEB	15	50859	-.026807	.177243	.1321726	.0019720	-.04077	-.00599
FEB	16	50860	-.028556	.178636	.1302088	.0019800	-.04110	-.00615
FEB	17	50861	-.030226	.179988	.1282203	.0019605	-.04133	-.00606
FEB	18	50862	-.031963	.181236	.1262927	.0018441	-.04161	-.00590
FEB	19	50863	-.034647	.182711	.1245332	.0017621	-.04172	-.00565
FEB	20	50864	-.037584	.184255	.1227653	.0018012	-.04158	-.00526
FEB	21	50865	-.040893	.185386	.1209234	.0018106	-.04144	-.00502
FEB	22	50866	-.044757	.186156	.1191320	.0018227	-.04127	-.00491
FEB	23	50867	-.048137	.186941	.1172613	.0019131	-.04115	-.00514
FEB	24	50868	-.050870	.187951	.1152863	.0020336	-.04104	-.00551
FEB	25	50869	-.053448	.188719	.1131774	.0021977	-.04099	-.00607
FEB	26	50870	-.055766	.189055	.1108845	.0023487	-.04111	-.00653
FEB	27	50871	-.057490	.189973	.1084895	.0024704	-.04117	-.00683
FEB	28	50872	-.058740	.191776	.1059687	.0026205	-.04122	-.00698
MAR	1	50873	-.059473	.193271	.1032817	.0026774	-.04129	-.00690
MAR	2	50874	-.060376	.194952	.1006452	.0025801	-.04129	-.00668
MAR	3	50875	-.061805	.196832	.0981419	.0024309	-.04118	-.00641
MAR	4	50876	-.063569	.198500	.0957889	.0022562	-.04110	-.00615
MAR	5	50877	-.065089	.200548	.0936220	.0020831	-.04095	-.00599
MAR	6	50878	-.066749	.202482	.0916072	.0019652	-.04077	-.00608
MAR	7	50879	-.068409	.204317	.0896730	.0019012	-.04062	-.00622
MAR	8	50880	-.070010	.206368	.0877873	.0018603	-.04046	-.00639
MAR	9	50881	-.071711	.208584	.0859388	.0018497	-.04027	-.00660
MAR	10	50882	-.073259	.210680	.0840798	.0018972	-.04021	-.00667
MAR	11	50883	-.074755	.212654	.0821419	.0019960	-.04011	-.00672
MAR	12	50884	-.076229	.214661	.0800902	.0020869	-.04009	-.00679
MAR	13	50885	-.077105	.216701	.0779738	.0021233	-.04018	-.00671
MAR	14	50886	-.078190	.218979	.0758514	.0021204	-.04035	-.00678
MAR	15	50887	-.080131	.221124	.0737415	.0021076	-.04050	-.00682
MAR	16	50888	-.082339	.222793	.0716445	.0020683	-.04057	-.00692
MAR	17	50889	-.084617	.224307	.0696116	.0019847	-.04050	-.00696
MAR	18	50890	-.086915	.226114	.0676784	.0018911	-.04037	-.00700
MAR	19	50891	-.088865	.227565	.0658280	.0018120	-.03997	-.00683
MAR	20	50892	-.090650	.229281	.0640481	.0017537	-.03956	-.00670
MAR	21	50893	-.092709	.231310	.0623098	.0017393	-.03929	-.00662
MAR	22	50894	-.094865	.232855	.0605543	.0017753	-.03915	-.00656
MAR	23	50895	-.096566	.234305	.0587408	.0018536	-.03910	-.00676
MAR	24	50896	-.097913	.235466	.0568279	.0019844	-.03929	-.00702
MAR	25	50897	-.099187	.236968	.0547581	.0021832	-.03956	-.00737
MAR	26	50898	-.100573	.238809	.0524599	.0024196	-.03937	-.00756
MAR	27	50899	-.102128	.240780	.0499340	.0025738	-.03930	-.00759
MAR	28	50900	-.103869	.242879	.0473423	.0025859	-.03947	-.00749
MAR	29	50901	-.105692	.245060	.0447985	.0025438	-.03981	-.00735
MAR	30	50902	-.107612	.247482	.0422856	.0024327	-.04023	-.00726
MAR	31	50903	-.109236	.249731	.0399497	.0022380	-.04051	-.00731
APR	1	50904	-.109926	.252041	.0378092	.0020641	-.04052	-.00755
APR	2	50905	-.110367	.254587	.0358082	.0019216	-.03998	-.00796

APR	3	50906	-.110946	.256987	.0339468	.0018225	-.03944	-.00852
APR	4	50907	-.111865	.259351	.0321439	.0017913	-.03897	-.00891
APR	5	50908	-.112923	.261551	.0303485	.0017941	-.03875	-.00913
APR	6	50909	-.113860	.263342	.0285456	.0018300	-.03874	-.00911
APR	7	50910	-.114263	.265515	.0266837	.0019132	-.03889	-.00887
APR	8	50911	-.114131	.268284	.0247194	.0019832	-.03911	-.00843
APR	9	50912	-.113955	.270870	.0227218	.0019716	-.03928	-.00793
APR	10	50913	-.113721	.273859	.0207832	.0019384	-.03903	-.00758
APR	11	50914	-.113600	.276912	.0188533	.0019423	-.03859	-.00740
APR	12	50915	-.113769	.279564	.0169070	.0019533	-.03820	-.00748
APR	13	50916	-.114183	.282229	.0149541	.0019282	-.03808	-.00771
APR	14	50917	-.114614	.285052	.0130556	.0018520	-.03850	-.00796
APR	15	50918	-.114938	.287653	.0112513	.0017659	-.03955	-.00819
APR	16	50919	-.114952	.290148	.0095198	.0016929	-.03977	-.00819
APR	17	50920	-.114520	.292846	.0078562	.0016518	-.03961	-.00812
APR	18	50921	-.113920	.295811	.0062024	.0016723	-.03935	-.00799
APR	19	50922	-.113454	.298661	.0044948	.0017339	-.03896	-.00800
APR	20	50923	-.113433	.301344	.0027166	.0018328	-.03861	-.00796
APR	21	50924	-.113689	.304136	.0008132	.0020004	-.03842	-.00812
APR	22	50925	-.113773	.306986	-.0012931	.0022008	-.03839	-.00819
APR	23	50926	-.113705	.309823	-.0035845	.0023770	-.03859	-.00830
APR	24	50927	-.113579	.312681	-.0060278	.0025180	-.03905	-.00828
APR	25	50928	-.113492	.315100	-.0085890	.0025686	-.03961	-.00832
APR	26	50929	-.113121	.317036	-.0111303	.0024709	-.03998	-.00822
APR	27	50930	-.112676	.319075	-.0135042	.0022839	-.04020	-.00816
APR	28	50931	-.112690	.321260	-.0156874	.0020789	-.04016	-.00821
APR	29	50932	-.113036	.323663	-.0176679	.0018955	-.03997	-.00823
APR	30	50933	-.113263	.326032	-.0194955	.0017951	-.03965	-.00850
MAY	1	50934	-.113295	.328177	-.0212784	.0017780	-.03948	-.00882
MAY	2	50935	-.113383	.330164	-.0230691	.0017928	-.03924	-.00906
MAY	3	50936	-.113573	.332138	-.0248761	.0017943	-.03909	-.00926
MAY	4	50937	-.113917	.334246	-.0266642	.0017734	-.03909	-.00922
MAY	5	50938	-.114160	.336523	-.0284243	.0017717	-.03906	-.00897
MAY	6	50939	-.114436	.338973	-.0302048	.0018189	-.03918	-.00865
MAY	7	50940	-.114528	.341208	-.0320561	.0018512	-.03921	-.00859
MAY	8	50941	-.114385	.343361	-.0338992	.0018289	-.03928	-.00859
MAY	9	50942	-.114241	.345446	-.0357055	.0018031	-.03951	-.00855
MAY	10	50943	-.113847	.347365	-.0374979	.0017602	-.03974	-.00857
MAY	11	50944	-.113318	.349458	-.0392204	.0016760	-.03991	-.00861
MAY	12	50945	-.112855	.351583	-.0408472	.0015791	-.04001	-.00865
MAY	13	50946	-.112347	.353707	-.0423803	.0014879	-.03997	-.00856
MAY	14	50947	-.111831	.355816	-.0438299	.0014167	-.03973	-.00862
MAY	15	50948	-.111361	.357826	-.0452258	.0014016	-.03936	-.00871
MAY	16	50949	-.110848	.359728	-.0466488	.0014760	-.03894	-.00873
MAY	17	50950	-.110541	.361501	-.0481948	.0016240	-.03854	-.00871
MAY	18	50951	-.110428	.363183	-.0499117	.0018147	-.03829	-.00867
MAY	19	50952	-.110035	.364971	-.0518339	.0020199	-.03832	-.00853
MAY	20	50953	-.109835	.367119	-.0539527	.0021969	-.03848	-.00843
MAY	21	50954	-.109888	.369202	-.0562175	.0023170	-.03903	-.00828
MAY	22	50955	-.109590	.371702	-.0585647	.0023808	-.03960	-.00810
MAY	23	50956	-.109140	.374590	-.0609495	.0023734	-.04020	-.00809
MAY	24	50957	-.108719	.377308	-.0632829	.0022514	-.04068	-.00811
MAY	25	50958	-.108079	.379841	-.0654338	.0020361	-.04110	-.00826

MAY	26	50959	-.107490	.382278	-.0673517	.0018186	-.04125	-.00839
MAY	27	50960	-.107328	.384619	-.0690821	.0016221	-.04126	-.00849
MAY	28	50961	-.107362	.386547	-.0706149	.0014419	-.04110	-.00862
MAY	29	50962	-.107124	.387968	-.0719852	.0013281	-.04094	-.00869
MAY	30	50963	-.106440	.389465	-.0732854	.0012797	-.04076	-.00879
MAY	31	50964	-.105724	.391463	-.0745525	.0013228	-.04061	-.00876
JUN	1	50965	-.105225	.393615	-.0759333	.0013677	-.04062	-.00872
JUN	2	50966	-.104738	.395662	-.0772858	.0013296	-.04079	-.00869
JUN	3	50967	-.104338	.397573	-.0785872	.0012998	-.04100	-.00860
JUN	4	50968	-.104469	.399256	-.0798778	.0012810	-.04136	-.00848
JUN	5	50969	-.104671	.400866	-.0811408	.0012516	-.04171	-.00842
JUN	6	50970	-.104574	.402442	-.0823734	.0011672	-.04198	-.00843
JUN	7	50971	-.104163	.403998	-.0834696	.0010361	-.04210	-.00836
JUN	8	50972	-.103562	.405623	-.0844426	.0009137	-.04216	-.00831
JUN	9	50973	-.102990	.407203	-.0852975	.0007987	-.04216	-.00823
JUN	10	50974	-.102153	.408818	-.0860450	.0007061	-.04205	-.00820
JUN	11	50975	-.101150	.410493	-.0867200	.0006835	-.04198	-.00822
JUN	12	50976	-.100355	.412092	-.0874267	.0007063	-.04183	-.00816
JUN	13	50977	-.099963	.413444	-.0881495	.0007015	-.04179	-.00825
JUN	14	50978	-.099385	.414575	-.0888447	.0007792	-.04169	-.00821
JUN	15	50979	-.098306	.415793	-.0897169	.0009062	-.04176	-.00817
JUN	16	50980	-.096990	.417291	-.0906580	.0009564	-.04178	-.00815
JUN	17	50981	-.095366	.418661	-.0916213	.0010013	-.04202	-.00789
JUN	18	50982	-.093615	.420364	-.0926436	.0010139	-.04228	-.00769
JUN	19	50983	-.091721	.422083	-.0936262	.0009630	-.04272	-.00745
JUN	20	50984	-.089796	.423611	-.0945451	.0008908	-.04304	-.00727
JUN	21	50985	-.088076	.424969	-.0953884	.0007802	-.04341	-.00731
JUN	22	50986	-.086408	.426200	-.0960970	.0006081	-.04361	-.00745
JUN	23	50987	-.084627	.427462	-.0966094	.0004555	-.04387	-.00776
JUN	24	50988	-.082749	.428920	-.0970232	.0003800	-.04422	-.00812
JUN	25	50989	-.081212	.430610	-.0973887	.0003784	-.04515	-.00860
JUN	26	50990	-.079745	.432085	-.0977965	.0004262	-.04624	-.00893
JUN	27	50991	-.078169	.433353	-.0982512	.0004216	-.04724	-.00921
JUN	28	50992	-.076207	.434502	-.0986428	.0004440	-.04770	-.00926
JUN	29	50993	-.073743	.435611	-.0991372	.0005731	-.04762	-.00913
JUN	30	50994	-.071037	.436896	-.0997837	.0006425	-.04679	-.00892
JUL	1	50995	-.068208	.438818	-.1004150	.0006352	-.04534	-.00858
JUL	2	50996	-.065440	.440613	-.1010456	.0006033	-.04541	-.00820
JUL	3	50997	-.062896	.442037	-.1016133	.0005101	-.04621	-.00789
JUL	4	50998	-.060461	.443755	-.1020596	.0004135	-.04678	-.00772
JUL	5	50999	-.057931	.445360	-.1024371	.0003298	-.04709	-.00766
JUL	6	51000	-.055332	.447234	-.1027195	.0002303	-.04714	-.00759
JUL	7	51001	-.052749	.448743	-.1029017	.0001341	-.04696	-.00759
JUL	8	51002	-.050212	.450053	-.1029961	.0000502	-.04670	-.00762
JUL	9	51003	-.047670	.451108	-.1030155	.0000084	-.04664	-.00759
JUL	10	51004	-.045222	.452470	-.1030297	.0000644	-.04665	-.00759
JUL	11	51005	-.042744	.454201	-.1031613	.0002292	-.04680	-.00756
JUL	12	51006	-.040236	.455983	-.1034997	.0004359	-.04702	-.00751
JUL	13	51007	-.037653	.457556	-.1040349	.0006044	-.04730	-.00749
JUL	14	51008	-.035249	.458891	-.1046991	.0007067	-.04750	-.00740
JUL	15	51009	-.032947	.460450	-.1054297	.0007543	-.04767	-.00748
JUL	16	51010	-.030710	.461528	-.1061846	.0007349	-.04762	-.00753
JUL	17	51011	-.028530	.462381	-.1068771	.0006369	-.04768	-.00773

JUL	18	51012	-.026418	.463170	-.1074409	.0005052	-.04791	-.00807
JUL	19	51013	-.024462	.464018	-.1078792	.0003755	-.04816	-.00841
JUL	20	51014	-.022496	.464891	-.1081940	.0002295	-.04856	-.00873
JUL	21	51015	-.020501	.465775	-.1083503	.0001000	-.04894	-.00871
JUL	22	51016	-.018601	.466694	-.1084119	.0000895	-.04937	-.00842
JUL	23	51017	-.016504	.467494	-.1085471	.0001449	-.04953	-.00806
JUL	24	51018	-.014172	.468367	-.1087146	.0001733	-.04969	-.00765
JUL	25	51019	-.011857	.469009	-.1088991	.0002682	-.04969	-.00731
JUL	26	51020	-.009282	.469824	-.1092499	.0004267	-.04966	-.00717
JUL	27	51021	-.006628	.470888	-.1097470	.0005067	-.04959	-.00725
JUL	28	51022	-.004184	.471925	-.1102557	.0004968	-.04962	-.00759
JUL	29	51023	-.001888	.473136	-.1107318	.0004729	-.04969	-.00799
JUL	30	51024	.000312	.474293	-.1111928	.0004912	-.04992	-.00835
JUL	31	51025	.002121	.475489	-.1117069	.0005016	-.05034	-.00867
AUG	1	51026	.003923	.476390	-.1121919	.0004132	-.05071	-.00872
AUG	2	51027	.005910	.476981	-.1125329	.0003468	-.05111	-.00866
AUG	3	51028	.007784	.477419	-.1128892	.0003582	-.05136	-.00836
AUG	4	51029	.009643	.477605	-.1132568	.0003350	-.05142	-.00792
AUG	5	51030	.011882	.478115	-.1135711	.0003034	-.05125	-.00760
AUG	6	51031	.014221	.478515	-.1138796	.0003378	-.05103	-.00743
AUG	7	51032	.016170	.478734	-.1142650	.0004444	-.05083	-.00741
AUG	8	51033	.017882	.478584	-.1147841	.0006022	-.05060	-.00746
AUG	9	51034	.019870	.478370	-.1154763	.0007852	-.05062	-.00752
AUG	10	51035	.022226	.478387	-.1163481	.0009265	-.05089	-.00772
AUG	11	51036	.024772	.478433	-.1173098	.0010015	-.05145	-.00778
AUG	12	51037	.027665	.478510	-.1183238	.0010141	-.05201	-.00780
AUG	13	51038	.030651	.478561	-.1193107	.0009196	-.05271	-.00779
AUG	14	51039	.033326	.478350	-.1201428	.0007505	-.05338	-.00782
AUG	15	51040	.035519	.478212	-.1208024	.0005771	-.05379	-.00786
AUG	16	51041	.037364	.478023	-.1212992	.0004008	-.05394	-.00790
AUG	17	51042	.039399	.477597	-.1216159	.0002362	-.05375	-.00809
AUG	18	51043	.041712	.477362	-.1217892	.0001928	-.05339	-.00822
AUG	19	51044	.043963	.477133	-.1220200	.0002264	-.05293	-.00838
AUG	20	51045	.046193	.477272	-.1222569	.0002071	-.05245	-.00829
AUG	21	51046	.048413	.477336	-.1224428	.0002740	-.05210	-.00816
AUG	22	51047	.050459	.477030	-.1228062	.0004399	-.05202	-.00801
AUG	23	51048	.052331	.476704	-.1233180	.0005301	-.05200	-.00778
AUG	24	51049	.054230	.476346	-.1238584	.0005565	-.05211	-.00770
AUG	25	51050	.056263	.476438	-.1244218	.0006053	-.05227	-.00788
AUG	26	51051	.058189	.476495	-.1250599	.0006720	-.05242	-.00813
AUG	27	51052	.060509	.476459	-.1257576	.0006604	-.05269	-.00833
AUG	28	51053	.063117	.476300	-.1263750	.0005692	-.05291	-.00857
AUG	29	51054	.065548	.476339	-.1268941	.0005354	-.05316	-.00871
AUG	30	51055	.067600	.476268	-.1274488	.0005682	-.05325	-.00863
AUG	31	51056	.069491	.476025	-.1280376	.0005671	-.05323	-.00851
SEP	1	51057	.071225	.475686	-.1285938	.0005928	-.05326	-.00812
SEP	2	51058	.073006	.474828	-.1292378	.0006890	-.05312	-.00776
SEP	3	51059	.074847	.473637	-.1299895	.0007462	-.05288	-.00745
SEP	4	51060	.077126	.472294	-.1307485	.0008252	-.05279	-.00721
SEP	5	51061	.079931	.471026	-.1316533	.0010499	-.05277	-.00716
SEP	6	51062	.082554	.470164	-.1328502	.0012715	-.05279	-.00715
SEP	7	51063	.084943	.469196	-.1341825	.0013726	-.05293	-.00719
SEP	8	51064	.087270	.468375	-.1355678	.0014388	-.05320	-.00739

SEP	9	51065	.089428	.467802	-.1370264	.0014736	-.05363	-.00766
SEP	10	51066	.091415	.467262	-.1384857	.0013573	-.05394	-.00787
SEP	11	51067	.093285	.466567	-.1397245	.0011261	-.05421	-.00802
SEP	12	51068	.095011	.466050	-.1407367	.0009643	-.05430	-.00816
SEP	13	51069	.096746	.465645	-.1416645	.0008129	-.05435	-.00826
SEP	14	51070	.099098	.465335	-.1423811	.0006689	-.05421	-.00832
SEP	15	51071	.101746	.464990	-.1430224	.0006806	-.05394	-.00830
SEP	16	51072	.104273	.464653	-.1437596	.0007654	-.05373	-.00823
SEP	17	51073	.106527	.464406	-.1445643	.0008101	-.05343	-.00800
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SEP	19	51075	.109180	.462554	-.1463169	.0010277	-.05293	-.00752
SEP	20	51076	.110504	.461042	-.1474323	.0011245	-.05290	-.00732
SEP	21	51077	.112078	.459503	-.1485563	.0011209	-.05275	-.00718
SEP	22	51078	.113853	.458107	-.1496642	.0011148	-.05282	-.00711
SEP	23	51079	.115827	.456453	-.1507770	.0010926	-.05292	-.00709
SEP	24	51080	.117629	.455105	-.1518425	.0010262	-.05299	-.00722
SEP	25	51081	.119166	.453826	-.1528257	.0009598	-.05319	-.00727
SEP	26	51082	.120386	.452532	-.1537630	.0009303	-.05323	-.00740
SEP	27	51083	.121335	.451385	-.1546923	.0008869	-.05324	-.00749
SEP	28	51084	.122300	.449679	-.1555471	.0008052	-.05308	-.00752
SEP	29	51085	.123320	.447871	-.1563163	.0008049	-.05293	-.00738
SEP	30	51086	.124306	.446330	-.1571734	.0009211	-.05255	-.00729
OCT	1	51087	.125349	.445042	-.1581766	.0010798	-.05210	-.00715
OCT	2	51088	.126528	.443812	-.1593499	.0012941	-.05162	-.00691
OCT	3	51089	.128032	.442514	-.1607749	.0015111	-.05131	-.00678
OCT	4	51090	.129792	.441262	-.1623688	.0017215	-.05101	-.00660
OCT	5	51091	.131466	.439606	-.1641984	.0018911	-.05098	-.00658
OCT	6	51092	.132950	.438038	-.1661186	.0019086	-.05113	-.00663
OCT	7	51093	.134297	.436029	-.1679795	.0018381	-.05129	-.00683
OCT	8	51094	.135648	.433833	-.1697670	.0017353	-.05171	-.00697
OCT	9	51095	.137208	.431863	-.1714384	.0015912	-.05196	-.00721
OCT	10	51096	.138841	.430600	-.1729550	.0014591	-.05215	-.00744
OCT	11	51097	.140169	.429512	-.1743744	.0013492	-.05223	-.00761
OCT	12	51098	.141295	.428709	-.1756754	.0012474	-.05216	-.00772
OCT	13	51099	.142079	.427603	-.1768890	.0012145	-.05192	-.00776
OCT	14	51100	.142805	.426040	-.1781181	.0012828	-.05168	-.00755
OCT	15	51101	.144043	.424489	-.1794613	.0013619	-.05129	-.00740
OCT	16	51102	.145385	.423228	-.1808420	.0013780	-.05107	-.00706
OCT	17	51103	.146713	.422101	-.1822123	.0014137	-.05080	-.00675
OCT	18	51104	.148107	.420988	-.1836610	.0014874	-.05073	-.00649
OCT	19	51105	.149287	.419729	-.1851797	.0014805	-.05060	-.00629
OCT	20	51106	.150232	.418396	-.1866126	.0014408	-.05053	-.00626
OCT	21	51107	.151150	.416877	-.1880535	.0014508	-.05055	-.00618
OCT	22	51108	.151954	.414941	-.1895091	.0013852	-.05051	-.00632
OCT	23	51109	.152325	.412880	-.1908225	.0012731	-.05050	-.00636
OCT	24	51110	.152531	.411035	-.1920588	.0012367	-.05065	-.00647
OCT	25	51111	.152960	.409451	-.1933043	.0012370	-.05060	-.00652
OCT	26	51112	.153505	.407945	-.1945455	.0012089	-.05054	-.00650
OCT	27	51113	.154187	.406273	-.1957375	.0011782	-.05042	-.00642
OCT	28	51114	.155003	.404556	-.1969188	.0011878	-.05013	-.00630
OCT	29	51115	.156037	.402785	-.1981299	.0012863	-.04970	-.00605
OCT	30	51116	.157173	.401179	-.1995047	.0015283	-.04923	-.00572
OCT	31	51117	.158276	.399685	-.2011916	.0018185	-.04881	-.00542

NOV	1	51118	.159474	.398267	-.2031336	.0020206	-.04856	-.00518
NOV	2	51119	.160717	.396799	-.2052096	.0021165	-.04852	-.00511
NOV	3	51120	.161843	.395319	-.2073325	.0021186	-.04882	-.00519
NOV	4	51121	.162792	.393905	-.2094127	.0020227	-.04889	-.00532
NOV	5	51122	.163186	.392314	-.2113549	.0018627	-.04909	-.00557
NOV	6	51123	.163127	.390503	-.2131328	.0016971	-.04923	-.00590
NOV	7	51124	.163229	.388315	-.2147605	.0015508	-.04924	-.00609
NOV	8	51125	.163573	.385860	-.2162555	.0014492	-.04918	-.00622
NOV	9	51126	.164150	.383476	-.2176806	.0014191	-.04912	-.00618
NOV	10	51127	.164863	.381130	-.2191101	.0014480	-.04904	-.00609
NOV	11	51128	.165437	.378807	-.2205854	.0014920	-.04890	-.00595
NOV	12	51129	.166106	.376801	-.2220959	.0015164	-.04883	-.00571
NOV	13	51130	.166621	.374821	-.2236192	.0015268	-.04871	-.00548
NOV	14	51131	.166592	.372681	-.2251429	.0015296	-.04862	-.00520
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NOV	16	51133	.165444	.368616	-.2281307	.0014428	-.04843	-.00483
NOV	17	51134	.164587	.366529	-.2295469	.0014066	-.04829	-.00473
NOV	18	51135	.164059	.364665	-.2309381	.0013664	-.04821	-.00477
NOV	19	51136	.163738	.362706	-.2322771	.0013213	-.04815	-.00482
NOV	20	51137	.163201	.360758	-.2335821	.0012843	-.04804	-.00494
NOV	21	51138	.162037	.359038	-.2348517	.0012343	-.04792	-.00511
NOV	22	51139	.160029	.357127	-.2360614	.0012039	-.04785	-.00511
NOV	23	51140	.158086	.354909	-.2372745	.0012424	-.04781	-.00516
NOV	24	51141	.156483	.352943	-.2385633	.0012771	-.04778	-.00504
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NOV	26	51143	.153773	.349158	-.2411545	.0014264	-.04787	-.00456
NOV	27	51144	.152871	.347136	-.2427042	.0016476	-.04801	-.00435
NOV	28	51145	.151857	.344887	-.2444480	.0017936	-.04824	-.00419
NOV	29	51146	.150870	.342625	-.2462788	.0018624	-.04831	-.00409
NOV	30	51147	.150250	.340731	-.2481486	.0018490	-.04834	-.00406
DEC	1	51148	.149440	.339289	-.2499464	.0017410	-.04825	-.00408
DEC	2	51149	.148058	.337592	-.2516032	.0015989	-.04801	-.00412
DEC	3	51150	.146990	.336126	-.2531294	.0014428	-.04760	-.00426
DEC	4	51151	.146525	.335085	-.2544910	.0012849	-.04714	-.00437
DEC	5	51152	.145950	.334296	-.2557150	.0011778	-.04670	-.00442
DEC	6	51153	.144938	.333361	-.2568682	.0011072	-.04633	-.00450
DEC	7	51154	.143738	.332276	-.2579485	.0010828	-.04622	-.00452
DEC	8	51155	.142258	.331146	-.2590450	.0010867	-.04633	-.00450
DEC	9	51156	.140844	.329725	-.2601248	.0010777	-.04660	-.00435
DEC	10	51157	.139701	.327882	-.2611972	.0011321	-.04704	-.00422
DEC	11	51158	.138681	.325807	-.2623822	.0012088	-.04751	-.00392
DEC	12	51159	.137892	.323814	-.2636062	.0011883	-.04787	-.00368
DEC	13	51160	.137385	.321943	-.2647507	.0011193	-.04783	-.00361
DEC	14	51161	.137151	.320128	-.2658355	.0010588	-.04782	-.00350
DEC	15	51162	.137240	.318413	-.2668623	.0009743	-.04769	-.00343
DEC	16	51163	.137450	.316974	-.2677811	.0008751	-.04749	-.00347
DEC	17	51164	.137954	.315727	-.2686132	.0008020	-.04723	-.00360
DEC	18	51165	.138872	.314470	-.2693898	.0007263	-.04693	-.00379
DEC	19	51166	.140082	.313340	-.2700749	.0006476	-.04667	-.00392
DEC	20	51167	.141433	.312549	-.2706980	.0006230	-.04651	-.00398
DEC	21	51168	.142398	.311684	-.2713368	.0006718	-.04644	-.00398
DEC	22	51169	.142855	.310165	-.2720575	.0007158	-.04650	-.00385
DEC	23	51170	.143050	.308246	-.2727813	.0007569	-.04673	-.00370

DEC	24	51171	.143131	.306689	-.2735776	.0009305	-.04702	-.00358
DEC	25	51172	.143105	.305334	-.2746405	.0011818	-.04733	-.00340
DEC	26	51173	.142824	.303824	-.2759309	.0013539	-.04769	-.00338
DEC	27	51174	.142258	.302425	-.2773301	.0014045	-.04794	-.00343
DEC	28	51175	.141690	.301163	-.2787162	.0013553	-.04820	-.00344
DEC	29	51176	.141213	.299910	-.2800169	.0012561	-.04821	-.00358
DEC	30	51177	.140687	.298713	-.2812114	.0011602	-.04795	-.00382
DEC	31	51178	.139759	.297385	-.2823328	.0010706	-.04764	-.00394