

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 ==> 1977								
JAN	1	43144	-.07240	.08320	.664035	.002439	.02785	-.00248
JAN	2	43145	-.07620	.08440	.661629	.002388	.02803	-.00261
JAN	3	43146	-.07990	.08570	.659248	.002370	.02833	-.00270
JAN	4	43147	-.08360	.08700	.656866	.002402	.02872	-.00273
JAN	5	43148	-.08730	.08840	.654441	.002465	.02910	-.00269
JAN	6	43149	-.09090	.08990	.651923	.002568	.02941	-.00260
JAN	7	43150	-.09450	.09150	.649283	.002713	.02959	-.00247
JAN	8	43151	-.09810	.09310	.646500	.002863	.02960	-.00232
JAN	9	43152	-.10160	.09480	.643560	.003005	.02945	-.00219
JAN	10	43153	-.10510	.09660	.640502	.003114	.02917	-.00211
JAN	11	43154	-.10850	.09840	.637349	.003172	.02883	-.00209
JAN	12	43155	-.11190	.10030	.634179	.003170	.02849	-.00214
JAN	13	43156	-.11530	.10230	.631028	.003113	.02824	-.00224
JAN	14	43157	-.11860	.10440	.627964	.003010	.02813	-.00239
JAN	15	43158	-.12190	.10650	.625010	.002907	.02818	-.00254
JAN	16	43159	-.12520	.10870	.622152	.002817	.02839	-.00268
JAN	17	43160	-.12840	.11100	.619360	.002776	.02872	-.00277
JAN	18	43161	-.13160	.11330	.616579	.002785	.02911	-.00279
JAN	19	43162	-.13480	.11570	.613764	.002852	.02947	-.00276
JAN	20	43163	-.13789	.11811	.610868	.002930	.02973	-.00267
JAN	21	43164	-.14099	.12061	.607898	.003005	.02985	-.00254
JAN	22	43165	-.14409	.12311	.604879	.003033	.02979	-.00242
JAN	23	43166	-.14709	.12581	.601858	.003014	.02959	-.00232
JAN	24	43167	-.15009	.12841	.598876	.002953	.02927	-.00228
JAN	25	43168	-.15299	.13111	.595970	.002854	.02892	-.00230
JAN	26	43169	-.15589	.13391	.593164	.002747	.02860	-.00238
JAN	27	43170	-.15879	.13671	.590478	.002634	.02838	-.00252
JAN	28	43171	-.16169	.13961	.587893	.002528	.02832	-.00269
JAN	29	43172	-.16449	.14251	.585415	.002443	.02843	-.00286
JAN	30	43173	-.16729	.14541	.582996	.002389	.02868	-.00300
JAN	31	43174	-.16999	.14841	.580622	.002377	.02904	-.00309
FEB	1	43175	-.17269	.15141	.578237	.002409	.02942	-.00311
FEB	2	43176	-.17539	.15451	.575799	.002474	.02975	-.00307
FEB	3	43177	-.17799	.15771	.573266	.002588	.02997	-.00298
FEB	4	43178	-.18059	.16081	.570605	.002725	.03003	-.00287
FEB	5	43179	-.18319	.16401	.567805	.002863	.02992	-.00277
FEB	6	43180	-.18569	.16731	.564889	.002971	.02967	-.00270
FEB	7	43181	-.18819	.17061	.561881	.003023	.02933	-.00269
FEB	8	43182	-.19059	.17391	.558856	.003014	.02898	-.00275

FEB	9	43183	-.19299	.17731	.555883	.002932	.02869	-.00287
FEB	10	43184	-.19529	.18071	.553007	.002807	.02853	-.00304
FEB	11	43185	-.19759	.18411	.550264	.002681	.02853	-.00323
FEB	12	43186	-.19989	.18761	.547649	.002565	.02869	-.00341
FEB	13	43187	-.20209	.19111	.545119	.002504	.02899	-.00354
FEB	14	43188	-.20419	.19471	.542621	.002500	.02936	-.00362
FEB	15	43189	-.20629	.19821	.540090	.002560	.02974	-.00363
FEB	16	43190	-.20829	.20181	.537479	.002655	.03005	-.00359
FEB	17	43191	-.21029	.20541	.534768	.002766	.03022	-.00350
FEB	18	43192	-.21219	.20911	.531966	.002842	.03022	-.00340
FEB	19	43193	-.21409	.21271	.529098	.002885	.03007	-.00332
FEB	20	43194	-.21589	.21641	.526212	.002880	.02979	-.00328
FEB	21	43195	-.21759	.22011	.523352	.002834	.02944	-.00331
FEB	22	43196	-.21929	.22381	.520561	.002763	.02911	-.00340
FEB	23	43197	-.22089	.22751	.517839	.002679	.02886	-.00355
FEB	24	43198	-.22239	.23121	.515211	.002587	.02876	-.00374
FEB	25	43199	-.22378	.23502	.512659	.002520	.02882	-.00393
FEB	26	43200	-.22518	.23872	.510162	.002479	.02904	-.00411
FEB	27	43201	-.22648	.24242	.507687	.002467	.02938	-.00423
FEB	28	43202	-.22768	.24612	.505203	.002510	.02977	-.00430
MAR	1	43203	-.22888	.24982	.502661	.002590	.03014	-.00430
MAR	2	43204	-.22988	.25352	.500007	.002713	.03041	-.00424
MAR	3	43205	-.23088	.25722	.497222	.002871	.03053	-.00415
MAR	4	43206	-.23178	.26082	.494270	.003034	.03049	-.00406
MAR	5	43207	-.23258	.26452	.491149	.003194	.03029	-.00400
MAR	6	43208	-.23328	.26822	.487889	.003306	.02999	-.00399
MAR	7	43209	-.23398	.27182	.484561	.003345	.02964	-.00404
MAR	8	43210	-.23448	.27552	.481238	.003302	.02934	-.00416
MAR	9	43211	-.23488	.27912	.477988	.003196	.02914	-.00433
MAR	10	43212	-.23528	.28272	.474854	.003062	.02910	-.00453
MAR	11	43213	-.23558	.28642	.471860	.002951	.02922	-.00472
MAR	12	43214	-.23578	.29002	.468948	.002883	.02949	-.00488
MAR	13	43215	-.23578	.29362	.466066	.002891	.02986	-.00499
MAR	14	43216	-.23578	.29722	.463157	.002945	.03026	-.00504
MAR	15	43217	-.23568	.30082	.460162	.003048	.03061	-.00501
MAR	16	43218	-.23548	.30432	.457044	.003180	.03084	-.00495
MAR	17	43219	-.23528	.30792	.453815	.003303	.03091	-.00485
MAR	18	43220	-.23488	.31152	.450447	.003397	.03081	-.00477
MAR	19	43221	-.23438	.31502	.447027	.003437	.03058	-.00472
MAR	20	43222	-.23388	.31852	.443588	.003433	.03025	-.00473
MAR	21	43223	-.23318	.32202	.440172	.003385	.02992	-.00480
MAR	22	43224	-.23248	.32552	.436824	.003318	.02964	-.00494
MAR	23	43225	-.23168	.32902	.433538	.003236	.02949	-.00512
MAR	24	43226	-.23078	.33252	.430349	.003143	.02951	-.00531
MAR	25	43227	-.22978	.33592	.427244	.003071	.02969	-.00550
MAR	26	43228	-.22868	.33932	.424206	.003021	.03000	-.00564
MAR	27	43229	-.22748	.34262	.421198	.003003	.03039	-.00572
MAR	28	43230	-.22628	.34592	.418186	.003030	.03077	-.00574
MAR	29	43231	-.22488	.34922	.415123	.003102	.03108	-.00569
MAR	30	43232	-.22348	.35242	.411978	.003204	.03126	-.00561
MAR	31	43233	-.22198	.35562	.408705	.003334	.03127	-.00551
APR	1	43234	-.22038	.35882	.405298	.003470	.03112	-.00542
APR	2	43235	-.21878	.36192	.401773	.003582	.03084	-.00539

APR	3	43236	-.21707	.36493	.398163	.003625	.03050	-.00541
APR	4	43237	-.21527	.36793	.394551	.003595	.03017	-.00550
APR	5	43238	-.21337	.37093	.391010	.003484	.02993	-.00564
APR	6	43239	-.21147	.37383	.387611	.003308	.02983	-.00582
APR	7	43240	-.20947	.37673	.384397	.003142	.02989	-.00601
APR	8	43241	-.20747	.37963	.381325	.003017	.03011	-.00617
APR	9	43242	-.20537	.38243	.378342	.002959	.03045	-.00629
APR	10	43243	-.20317	.38513	.375379	.002958	.03084	-.00634
APR	11	43244	-.20097	.38783	.372402	.003021	.03120	-.00632
APR	12	43245	-.19877	.39053	.369330	.003113	.03145	-.00625
APR	13	43246	-.19647	.39323	.366176	.003204	.03157	-.00614
APR	14	43247	-.19417	.39583	.362928	.003276	.03151	-.00604
APR	15	43248	-.19177	.39833	.359634	.003314	.03130	-.00596
APR	16	43249	-.18947	.40083	.356302	.003335	.03097	-.00592
APR	17	43250	-.18707	.40333	.352977	.003320	.03061	-.00596
APR	18	43251	-.18457	.40583	.349679	.003261	.03029	-.00606
APR	19	43252	-.18217	.40823	.346457	.003183	.03007	-.00620
APR	20	43253	-.17967	.41063	.343303	.003118	.03001	-.00638
APR	21	43254	-.17727	.41293	.340215	.003061	.03011	-.00655
APR	22	43255	-.17477	.41523	.337171	.003031	.03036	-.00668
APR	23	43256	-.17227	.41753	.334151	.003026	.03070	-.00676
APR	24	43257	-.16977	.41983	.331115	.003052	.03107	-.00678
APR	25	43258	-.16727	.42203	.328032	.003121	.03138	-.00673
APR	26	43259	-.16467	.42423	.324870	.003210	.03157	-.00663
APR	27	43260	-.16217	.42643	.321592	.003330	.03160	-.00651
APR	28	43261	-.15967	.42853	.318194	.003468	.03146	-.00639
APR	29	43262	-.15707	.43063	.314658	.003601	.03118	-.00631
APR	30	43263	-.15457	.43273	.310992	.003701	.03082	-.00629
MAY	1	43264	-.15207	.43483	.307267	.003737	.03044	-.00633
MAY	2	43265	-.14947	.43683	.303555	.003693	.03012	-.00644
MAY	3	43266	-.14687	.43893	.299915	.003568	.02992	-.00658
MAY	4	43267	-.14427	.44093	.296423	.003414	.02989	-.00675
MAY	5	43268	-.14167	.44283	.293084	.003268	.03001	-.00689
MAY	6	43269	-.13907	.44483	.289880	.003159	.03027	-.00700
MAY	7	43270	-.13637	.44673	.286744	.003120	.03060	-.00705
MAY	8	43271	-.13367	.44863	.283632	.003132	.03093	-.00702
MAY	9	43272	-.13096	.45054	.280484	.003157	.03118	-.00694
MAY	10	43273	-.12816	.45234	.277309	.003190	.03129	-.00682
MAY	11	43274	-.12536	.45414	.274100	.003202	.03123	-.00668
MAY	12	43275	-.12246	.45594	.270904	.003185	.03101	-.00656
MAY	13	43276	-.11956	.45764	.267742	.003135	.03066	-.00649
MAY	14	43277	-.11656	.45934	.264655	.003054	.03024	-.00648
MAY	15	43278	-.11356	.46094	.261651	.002939	.02984	-.00653
MAY	16	43279	-.11046	.46254	.258770	.002821	.02952	-.00663
MAY	17	43280	-.10726	.46414	.256007	.002705	.02935	-.00678
MAY	18	43281	-.10406	.46564	.253356	.002592	.02933	-.00692
MAY	19	43282	-.10076	.46714	.250815	.002505	.02948	-.00705
MAY	20	43283	-.09746	.46854	.248335	.002460	.02973	-.00712
MAY	21	43284	-.09406	.46994	.245892	.002432	.03004	-.00714
MAY	22	43285	-.09056	.47124	.243446	.002454	.03031	-.00708
MAY	23	43286	-.08696	.47254	.240961	.002513	.03048	-.00697
MAY	24	43287	-.08336	.47374	.238400	.002602	.03050	-.00683
MAY	25	43288	-.07966	.47494	.235750	.002710	.03035	-.00668

MAY	26	43289	-.07586	.47604	.232989	.002821	.03004	-.00656
MAY	27	43290	-.07206	.47714	.230125	.002915	.02962	-.00650
MAY	28	43291	-.06816	.47814	.227174	.002967	.02917	-.00650
MAY	29	43292	-.06416	.47904	.224200	.002968	.02875	-.00656
MAY	30	43293	-.06016	.48004	.221259	.002901	.02844	-.00667
MAY	31	43294	-.05616	.48084	.218425	.002782	.02829	-.00681
JUN	1	43295	-.05196	.48174	.215700	.002647	.02829	-.00694
JUN	2	43296	-.04776	.48244	.213111	.002549	.02844	-.00704
JUN	3	43297	-.04356	.48324	.210585	.002505	.02869	-.00709
JUN	4	43298	-.03926	.48384	.208091	.002510	.02895	-.00707
JUN	5	43299	-.03496	.48454	.205552	.002561	.02916	-.00698
JUN	6	43300	-.03056	.48514	.202967	.002605	.02925	-.00685
JUN	7	43301	-.02616	.48564	.200349	.002625	.02918	-.00670
JUN	8	43302	-.02176	.48614	.197730	.002608	.02894	-.00655
JUN	9	43303	-.01726	.48654	.195157	.002553	.02855	-.00644
JUN	10	43304	-.01266	.48694	.192645	.002457	.02808	-.00639
JUN	11	43305	-.00816	.48724	.190240	.002349	.02760	-.00640
JUN	12	43306	-.00356	.48754	.187951	.002218	.02718	-.00648
JUN	13	43307	.00104	.48784	.185793	.002096	.02688	-.00659
JUN	14	43308	.00564	.48794	.183754	.001975	.02675	-.00673
JUN	15	43309	.01035	.48805	.181835	.001878	.02678	-.00685
JUN	16	43310	.01495	.48815	.179987	.001824	.02694	-.00693
JUN	17	43311	.01965	.48815	.178175	.001796	.02717	-.00694
JUN	18	43312	.02435	.48805	.176382	.001807	.02739	-.00690
JUN	19	43313	.02895	.48795	.174549	.001853	.02754	-.00679
JUN	20	43314	.03365	.48765	.172654	.001939	.02754	-.00664
JUN	21	43315	.03835	.48745	.170674	.002034	.02739	-.00648
JUN	22	43316	.04295	.48705	.168596	.002131	.02706	-.00634
JUN	23	43317	.04755	.48665	.166417	.002213	.02662	-.00625
JUN	24	43318	.05215	.48615	.164170	.002274	.02611	-.00621
JUN	25	43319	.05675	.48565	.161896	.002277	.02561	-.00624
JUN	26	43320	.06135	.48505	.159624	.002236	.02520	-.00633
JUN	27	43321	.06585	.48435	.157429	.002147	.02494	-.00646
JUN	28	43322	.07035	.48355	.155338	.002032	.02484	-.00659
JUN	29	43323	.07485	.48275	.153361	.001936	.02489	-.00669
JUN	30	43324	.07925	.48185	.151462	.001871	.02506	-.00675
JUL	1	43325	.08365	.48085	.149588	.001875	.02528	-.00675
JUL	2	43326	.08795	.47985	.147694	.001930	.02547	-.00668
JUL	3	43327	.09225	.47875	.145723	.002003	.02556	-.00655
JUL	4	43328	.09645	.47755	.143693	.002061	.02549	-.00640
JUL	5	43329	.10065	.47635	.141625	.002076	.02526	-.00624
JUL	6	43330	.10485	.47505	.139556	.002052	.02488	-.00611
JUL	7	43331	.10885	.47365	.137535	.001977	.02439	-.00603
JUL	8	43332	.11295	.47225	.135602	.001884	.02386	-.00602
JUL	9	43333	.11695	.47075	.133772	.001776	.02338	-.00608
JUL	10	43334	.12085	.46925	.132050	.001676	.02300	-.00618
JUL	11	43335	.12475	.46765	.130417	.001585	.02278	-.00631
JUL	12	43336	.12855	.46605	.128863	.001525	.02273	-.00644
JUL	13	43337	.13225	.46435	.127354	.001488	.02283	-.00653
JUL	14	43338	.13605	.46265	.125864	.001499	.02302	-.00657
JUL	15	43339	.13965	.46085	.124343	.001560	.02323	-.00654
JUL	16	43340	.14335	.45905	.122731	.001648	.02338	-.00645
JUL	17	43341	.14685	.45715	.121026	.001768	.02342	-.00632

JUL	18	43342	.15035	.45525	.119189	.001908	.02330	-.00616
JUL	19	43343	.15385	.45335	.117207	.002053	.02301	-.00601
JUL	20	43344	.15725	.45135	.115087	.002173	.02259	-.00590
JUL	21	43345	.16065	.44935	.112863	.002269	.02208	-.00584
JUL	22	43346	.16396	.44726	.110575	.002298	.02157	-.00586
JUL	23	43347	.16726	.44516	.108283	.002277	.02112	-.00593
JUL	24	43348	.17046	.44306	.106036	.002214	.02080	-.00605
JUL	25	43349	.17366	.44096	.103864	.002117	.02065	-.00619
JUL	26	43350	.17676	.43876	.101791	.002022	.02066	-.00631
JUL	27	43351	.17986	.43646	.099799	.001958	.02080	-.00639
JUL	28	43352	.18296	.43426	.097857	.001937	.02102	-.00640
JUL	29	43353	.18596	.43196	.095907	.001971	.02123	-.00636
JUL	30	43354	.18886	.42966	.093892	.002043	.02137	-.00625
JUL	31	43355	.19186	.42726	.091810	.002118	.02137	-.00610
AUG	1	43356	.19466	.42486	.089666	.002160	.02121	-.00595
AUG	2	43357	.19756	.42246	.087496	.002160	.02089	-.00581
AUG	3	43358	.20036	.42006	.085365	.002094	.02044	-.00572
AUG	4	43359	.20306	.41756	.083332	.001986	.01995	-.00569
AUG	5	43360	.20576	.41506	.081400	.001865	.01946	-.00573
AUG	6	43361	.20846	.41256	.079603	.001737	.01908	-.00582
AUG	7	43362	.21116	.40996	.077933	.001616	.01883	-.00595
AUG	8	43363	.21376	.40736	.076365	.001523	.01876	-.00609
AUG	9	43364	.21626	.40476	.074875	.001471	.01885	-.00620
AUG	10	43365	.21886	.40206	.073410	.001456	.01905	-.00626
AUG	11	43366	.22136	.39936	.071948	.001494	.01930	-.00626
AUG	12	43367	.22376	.39666	.070417	.001563	.01952	-.00619
AUG	13	43368	.22626	.39386	.068800	.001687	.01965	-.00607
AUG	14	43369	.22866	.39116	.067045	.001827	.01963	-.00592
AUG	15	43370	.23096	.38836	.065132	.001988	.01944	-.00576
AUG	16	43371	.23336	.38546	.063072	.002140	.01910	-.00564
AUG	17	43372	.23566	.38266	.060862	.002258	.01867	-.00557
AUG	18	43373	.23786	.37976	.058562	.002335	.01820	-.00556
AUG	19	43374	.24016	.37686	.056223	.002343	.01778	-.00562
AUG	20	43375	.24236	.37396	.053892	.002312	.01747	-.00573
AUG	21	43376	.24446	.37096	.051597	.002255	.01732	-.00586
AUG	22	43377	.24666	.36796	.049372	.002208	.01734	-.00599
AUG	23	43378	.24866	.36496	.047182	.002179	.01751	-.00609
AUG	24	43379	.25076	.36196	.044996	.002209	.01777	-.00613
AUG	25	43380	.25276	.35896	.042755	.002293	.01806	-.00610
AUG	26	43381	.25466	.35586	.040405	.002423	.01830	-.00601
AUG	27	43382	.25657	.35287	.037902	.002574	.01842	-.00588
AUG	28	43383	.25847	.34977	.035261	.002704	.01838	-.00572
AUG	29	43384	.26027	.34657	.032509	.002811	.01818	-.00557
AUG	30	43385	.26197	.34347	.029668	.002841	.01784	-.00547
AUG	31	43386	.26367	.34027	.026834	.002827	.01743	-.00541
SEP	1	43387	.26537	.33717	.024035	.002755	.01701	-.00543
SEP	2	43388	.26687	.33387	.021319	.002676	.01666	-.00550
SEP	3	43389	.26837	.33067	.018692	.002588	.01645	-.00562
SEP	4	43390	.26987	.32747	.016138	.002514	.01640	-.00575
SEP	5	43391	.27117	.32417	.013656	.002466	.01651	-.00587
SEP	6	43392	.27247	.32087	.011194	.002455	.01677	-.00595
SEP	7	43393	.27367	.31747	.008731	.002476	.01709	-.00596
SEP	8	43394	.27487	.31417	.006227	.002550	.01742	-.00591

SEP	9	43395	.27587	.31077	.003629	.002643	.01766	-.00580
SEP	10	43396	.27687	.30737	.000920	.002769	.01778	-.00565
SEP	11	43397	.27777	.30387	-.001916	.002913	.01773	-.00549
SEP	12	43398	.27867	.30037	-.004897	.003050	.01752	-.00534
SEP	13	43399	.27937	.29687	-.008008	.003174	.01719	-.00525
SEP	14	43400	.27997	.29327	-.011221	.003241	.01681	-.00521
SEP	15	43401	.28057	.28967	-.014469	.003243	.01646	-.00524
SEP	16	43402	.28097	.28607	-.017685	.003180	.01619	-.00533
SEP	17	43403	.28137	.28237	-.020815	.003074	.01607	-.00545
SEP	18	43404	.28167	.27857	-.023840	.002958	.01613	-.00558
SEP	19	43405	.28187	.27487	-.026737	.002865	.01634	-.00568
SEP	20	43406	.28197	.27107	-.029575	.002819	.01667	-.00573
SEP	21	43407	.28197	.26717	-.032395	.002818	.01705	-.00571
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SEP	24	43410	.28157	.25547	-.041153	.003042	.01775	-.00533
SEP	25	43411	.28127	.25147	-.044232	.003108	.01768	-.00517
SEP	26	43412	.28087	.24747	-.047353	.003128	.01747	-.00503
SEP	27	43413	.28037	.24337	-.050468	.003095	.01716	-.00495
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SEP	30	43416	.27847	.23117	-.059319	.002788	.01634	-.00506
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OCT	21	43437	.24638	.14658	-.124131	.003465	.01907	-.00455
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OCT	23	43439	.24178	.13938	-.131169	.003542	.01900	-.00420
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OCT	26	43442	.23458	.12908	-.141590	.003333	.01821	-.00404
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OCT	28	43444	.22938	.12268	-.148015	.003083	.01800	-.00420
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OCT	30	43446	.22408	.11648	-.153952	.002872	.01843	-.00438
OCT	31	43447	.22138	.11348	-.156796	.002819	.01884	-.00441

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