

CZAS GWIAZDOWY GREENWICH I KĄT OBROTU ZIEMI 2008

DATA	0 ^h UT1				DATA	0 ^h UT1						
	GMST	Eq	GST	θ		GMST	Eq	GST	θ			
		0 ^o 0001					0 ^o 0001					
Październik	1	0 ^h 40 ^m 23.2266 ^s	+6782	23.9048	0 ^h 39 ^m 56.3244 ^s	Listopad	16	3 ^h 41 ^m 44.7736 ^s	+6727	45.4462	3 ^h 41 ^m 17.8484 ^s	
	2	0 44 19.7820	+6737	20.4557	0 43 52.8713		17	3 45 41.3289	+6834	42.0123	3 45 14.0310	
	3	0 48 16.3374	+6719	17.0093	0 47 49.4183		18	3 49 37.8843	+6910	38.5753	3 49 10.5779	
	4	0 52 12.8927	+6724	13.5652	0 51 45.9652		19	3 53 34.4397	+6945	35.1341	3 53 07.1249	
	5	0 56 09.4481	+6747	10.1228	0 55 42.5122		20	3 57 30.9950	+6941	31.6892	3 57 03.6718	
	6	1 00 06.0035	+6780	06.6814	0 59 39.0591		21	4 01 27.5504	+6909	28.2413	4 01 00.2188	
	7	1 04 02.5589	+6813	03.2401	1 03 35.6061		22	4 05 24.1058	+6861	24.7919	4 04 56.7657	
	8	1 07 59.1142	+6837	59.7979	1 07 32.1530		23	4 09 20.6611	+6813	21.3425	4 08 53.3127	
	9	1 11 55.6696	+6844	56.3540	1 11 28.7000		24	4 13 17.2165	+6777	17.8942	4 12 49.8596	
	10	1 15 52.2250	+6828	52.9078	1 15 25.2469		25	4 17 13.7719	+6762	14.4481	4 16 46.4066	
	11	1 19 48.7803	+6785	49.4588	1 19 21.7939		26	4 21 10.3272	+6773	11.0045	4 20 42.9535	
	12	1 23 45.3357	+6717	46.0074	1 23 18.3408		27	4 25 06.8826	+6809	07.5635	4 24 39.5005	
	13	1 27 41.8911	+6633	42.5544	1 27 14.8878		28	4 29 03.4380	+6867	04.1247	4 28 36.0474	
	14	1 31 38.4464	+6548	39.1012	1 31 11.4347		29	4 32 59.9933	+6940	60.6873	4 32 32.5944	
	15	1 35 35.0018	+6480	35.6498	1 35 07.9817		30	4 36 56.5487	+7017	57.2504	4 36 29.1413	
	16	1 39 31.5572	+6447	32.2018	1 39 04.5286		Grudzień	1	4 40 53.1041	+7091	53.8132	4 40 25.6883
	17	1 43 28.1125	+6458	28.7583	1 43 01.0756			2	4 44 49.6595	+7152	50.3746	4 44 22.2352
	18	1 47 24.6679	+6510	25.3189	1 46 57.6225			3	4 48 46.2148	+7193	46.9341	4 48 18.7822
	19	1 51 21.2233	+6588	21.8821	1 50 54.1695			4	4 52 42.7702	+7211	43.4913	4 52 15.3291
	20	1 55 17.7786	+6671	18.4457	1 54 50.7164			5	4 56 39.3256	+7204	40.0460	4 56 11.8761
	21	1 59 14.3340	+6738	15.0078	1 58 47.2634			6	5 00 35.8809	+7178	36.5987	5 00 08.4230
	22	2 03 10.8894	+6772	11.5666	2 02 43.8103			7	5 04 32.4363	+7140	33.1503	5 04 04.9700
	23	2 07 07.4447	+6769	08.1217	2 06 40.3573			8	5 08 28.9917	+7104	29.7020	5 08 01.5169
	24	2 11 04.0001	+6731	04.6732	2 10 36.9042			9	5 12 25.5470	+7087	26.2557	5 11 58.0639
	25	2 15 00.5555	+6667	01.2222	2 14 33.4512			10	5 16 22.1024	+7105	22.8129	5 15 54.6108
	26	2 18 57.1108	+6592	57.7700	2 18 29.9981		11	5 20 18.6578	+7169	19.3746	5 19 51.1578	
	27	2 22 53.6662	+6519	54.3181	2 22 26.5451		12	5 24 15.2131	+7277	15.9409	5 23 47.7047	
	28	2 26 50.2216	+6461	50.8676	2 26 23.0920		13	5 28 11.7685	+7415	12.5100	5 27 44.2517	
	29	2 30 46.7769	+6426	47.4195	2 30 19.6390		14	5 32 08.3239	+7555	09.0794	5 31 40.7986	
	30	2 34 43.3323	+6417	43.9740	2 34 16.1859		15	5 36 04.8792	+7670	05.6463	5 35 37.3456	
31	2 38 39.8877	+6434	40.5311	2 38 12.7329	16	5 40 01.4346	+7744	02.2090	5 39 33.8925			
Listopad	1	2 42 36.4430	+6471	37.0902	2 42 09.2798	17	5 43 57.9900	+7772	58.7672	5 43 30.4395		
	2	2 46 32.9984	+6521	33.6505	2 46 05.8268	18	5 47 54.5453	+7764	55.3217	5 47 26.9864		
	3	2 50 29.5538	+6574	30.2112	2 50 02.3737	19	5 51 51.1007	+7734	51.8741	5 51 23.5334		
	4	2 54 26.1092	+6621	26.7713	2 53 58.9207	20	5 55 47.6561	+7699	48.4260	5 55 20.0803		
	5	2 58 22.6645	+6654	23.3299	2 57 55.4676	21	5 59 44.2114	+7674	44.9788	5 59 16.6273		
	6	3 02 19.2199	+6666	19.8865	3 01 52.0146	22	6 03 40.7668	+7667	41.5335	6 03 13.1742		
	7	3 06 15.7753	+6654	16.4407	3 05 48.5615	23	6 07 37.3222	+7684	38.0905	6 07 09.7212		
	8	3 10 12.3306	+6618	12.9924	3 09 45.1085	24	6 11 33.8775	+7725	34.6501	6 11 06.2681		
	9	3 14 08.8860	+6563	09.5423	3 13 41.6554	25	6 15 30.4329	+7789	31.2118	6 15 02.8151		
	10	3 18 05.4414	+6500	06.0914	3 17 38.2024	26	6 19 26.9883	+7868	27.7750	6 18 59.3620		
	11	3 22 01.9967	+6447	02.6415	3 21 34.7493	27	6 23 23.5436	+7953	24.3390	6 22 55.9090		
	12	3 25 58.5521	+6422	59.1943	3 25 31.2963	28	6 27 20.0990	+8036	20.9027	6 26 52.4559		
	13	3 29 55.1075	+6440	55.7515	3 29 27.8432	29	6 31 16.6544	+8108	17.4651	6 30 49.0029		
	14	3 33 51.6628	+6506	52.3134	3 33 24.3902	30	6 35 13.2098	+8159	14.0257	6 34 45.5498		
	15	3 37 48.2182	+6609	48.8791	3 37 20.9371	31	6 39 09.7651	+8187	10.5838	6 38 42.0968		
	16	3 41 44.7736	+6727	45.4462	3 41 17.4841	32	6 43 06.3205	+8189	07.1394	6 42 38.6437		

Wzory na zamianę jednostek czasu gwiazdowego średniego na jednostki średniego czasu słonecznego oraz zamianę odwrotną

$$\frac{\text{interwał czasu gwiazdowego średniego}}{\text{interwał czasu słonecznego średniego}} = 1.002737909350795 + 5.9006 \times 10^{-11} T - 5.9 \times 10^{-15} T^2$$

$$\frac{\text{interwał czasu słonecznego średniego}}{\text{interwał czasu gwiazdowego średniego}} = 0.997269566329084 - 5.8684 \times 10^{-11} T + 5.9 \times 10^{-15} T^2 \quad (1)$$

Przewidywane współrzędne bieguna *CIP* („chwilowego” bieguna północnego Ziemi) w odniesieniu do *IRP* oraz poprawka do czasu uniwersalnego, 0^b *UTC*

Data	<i>MJD</i>	x_{IERS}	y_{IERS}	<i>UT1-UTC</i>	Data	<i>MJD</i>	x_{IERS}	y_{IERS}	<i>UT1-UTC</i>		
2007					2008						
XI	25	-0.02	+0.21	-0.24	V	23	+0.11	+0.55	-0.42		
	30	-0.03	+0.21	-0.24		28	54614	+0.12	+0.54	-0.42	
XII	5	-0.04	+0.22	-0.25	VI	2	54619	+0.14	+0.54	-0.43	
	10	-0.06	+0.23	-0.26		7	54624	+0.15	+0.53	-0.43	
	15	-0.07	+0.24	-0.26		12	54629	+0.17	+0.53	-0.43	
	20	-0.08	+0.25	-0.26		17	54634	+0.18	+0.52	-0.44	
	25	-0.09	+0.26	-0.27		22	54639	+0.19	+0.51	-0.44	
	30	-0.09	+0.27	-0.27		27	54644	+0.21	+0.50	-0.44	
2008					VII	2	54649	+0.22	+0.49	-0.44	
I	4	54469	-0.10	+0.29		-0.27	7	54654	+0.23	+0.48	-0.44
	9	54474	-0.11	+0.30		-0.27	12	54659	+0.24	+0.46	-0.44
	14	54479	-0.11	+0.31		-0.28	17	54664	+0.24	+0.45	-0.44
	19	54484	-0.12	+0.33		-0.28	22	54669	+0.25	+0.44	-0.44
	24	54489	-0.12	+0.34		-0.29	27	54674	+0.26	+0.42	-0.44
	29	54494	-0.12	+0.36	-0.29	VIII	1	54679	+0.26	+0.41	-0.44
II	3	54499	-0.12	+0.37	-0.29		6	54684	+0.27	+0.39	-0.44
	8	54504	-0.12	+0.39	-0.30		11	54689	+0.27	+0.38	-0.44
	13	54509	-0.12	+0.40	-0.30		16	54694	+0.27	+0.36	-0.43
	18	54514	-0.12	+0.41	-0.31		21	54699	+0.27	+0.35	-0.43
	23	54519	-0.11	+0.43	-0.31		26	54704	+0.27	+0.33	-0.43
	28	54524	-0.11	+0.44	-0.32	31	54709	+0.26	+0.32	-0.43	
III	4	54529	-0.10	+0.46	-0.32	IX	5	54714	+0.26	+0.30	-0.43
	9	54534	-0.09	+0.47	-0.33		10	54719	+0.25	+0.29	-0.43
	14	54539	-0.09	+0.48	-0.34		15	54724	+0.25	+0.28	-0.43
	19	54544	-0.08	+0.49	-0.34		20	54729	+0.24	+0.26	-0.44
	24	54549	-0.07	+0.50	-0.35		25	54734	+0.23	+0.25	-0.45
	29	54554	-0.05	+0.51	-0.36		30	54739	+0.22	+0.24	-0.45
IV	3	54559	-0.04	+0.52	-0.36	X	5	54744	+0.21	+0.23	-0.46
	8	54564	-0.03	+0.53	-0.37		10	54749	+0.20	+0.22	-0.46
	13	54569	-0.01	+0.53	-0.38		15	54754	+0.18	+0.21	-0.47
	18	54574	-0.00	+0.54	-0.38		20	54759	+0.17	+0.20	-0.48
	23	54579	+0.01	+0.55	-0.39		25	54764	+0.16	+0.19	-0.49
	28	54584	+0.03	+0.55	-0.39		30	54769	+0.14	+0.19	-0.49
V	3	54589	+0.04	+0.55	-0.40	XI	4	54774	+0.13	+0.18	-0.50
	8	54594	+0.06	+0.55	-0.41		9	54779	+0.11	+0.18	-0.50
	13	54599	+0.08	+0.55	-0.41		14	54784	+0.10	+0.18	-0.51
	18	54604	+0.09	+0.55	-0.42		19	54789	+0.08	+0.17	-0.51