

SŁÓŃCE

Data 2023		0 ^h UT			0 ^h UT				
		X ₂₀₀₀	Y ₂₀₀₀	Z ₂₀₀₀					
I	1	0.17026	-0.88859	-0.38520	II	16	0.82575	-0.49738	-0.21562
	2	0.18745	-0.88565	-0.38392		17	0.83535	-0.48405	-0.20984
	3	0.20458	-0.88244	-0.38253		18	0.84470	-0.47056	-0.20399
	4	0.22165	-0.87896	-0.38102		19	0.85378	-0.45694	-0.19809
	5	0.23865	-0.87520	-0.37939		20	0.86260	-0.44317	-0.19212
	6	0.25557	-0.87118	-0.37765		21	0.87116	-0.42926	-0.18609
	7	0.27242	-0.86688	-0.37578		22	0.87945	-0.41522	-0.18000
	8	0.28918	-0.86231	-0.37380		23	0.88746	-0.40106	-0.17386
	9	0.30585	-0.85748	-0.37171		24	0.89521	-0.38677	-0.16767
	10	0.32243	-0.85238	-0.36950		25	0.90268	-0.37236	-0.16142
	11	0.33891	-0.84702	-0.36718		26	0.90987	-0.35785	-0.15513
	12	0.35528	-0.84139	-0.36474		27	0.91678	-0.34322	-0.14879
	13	0.37154	-0.83551	-0.36219		28	0.92341	-0.32849	-0.14240
	14	0.38770	-0.82936	-0.35952	III	1	0.92977	-0.31366	-0.13597
	15	0.40373	-0.82295	-0.35675		2	0.93583	-0.29874	-0.12950
	16	0.41964	-0.81629	-0.35386		3	0.94162	-0.28373	-0.12300
	17	0.43541	-0.80938	-0.35086		4	0.94712	-0.26863	-0.11645
	18	0.45106	-0.80221	-0.34775		5	0.95233	-0.25346	-0.10987
	19	0.46656	-0.79479	-0.34454		6	0.95725	-0.23820	-0.10326
	20	0.48192	-0.78712	-0.34121		7	0.96189	-0.22288	-0.09662
	21	0.49713	-0.77920	-0.33778		8	0.96623	-0.20749	-0.08995
	22	0.51219	-0.77104	-0.33425		9	0.97029	-0.19203	-0.08325
	23	0.52709	-0.76265	-0.33061		10	0.97405	-0.17652	-0.07653
	24	0.54182	-0.75401	-0.32686		11	0.97752	-0.16096	-0.06978
	25	0.55638	-0.74514	-0.32302		12	0.98069	-0.14534	-0.06301
	26	0.57077	-0.73604	-0.31907		13	0.98357	-0.12968	-0.05622
	27	0.58497	-0.72670	-0.31503		14	0.98616	-0.11398	-0.04942
	28	0.59900	-0.71715	-0.31088		15	0.98844	-0.09824	-0.04259
	29	0.61284	-0.70737	-0.30664		16	0.99043	-0.08247	-0.03576
	30	0.62648	-0.69738	-0.30231		17	0.99213	-0.06668	-0.02891
	31	0.63994	-0.68717	-0.29788		18	0.99352	-0.05086	-0.02206
II	1	0.65319	-0.67675	-0.29337		19	0.99461	-0.03503	-0.01519
	2	0.66624	-0.66612	-0.28876		20	0.99541	-0.01919	-0.00833
	3	0.67909	-0.65528	-0.28406		21	0.99590	-0.00334	-0.00145
	4	0.69172	-0.64425	-0.27928		22	0.99609	0.01252	0.00542
	5	0.70414	-0.63301	-0.27441		23	0.99599	0.02836	0.01229
	6	0.71635	-0.62158	-0.26945		24	0.99558	0.04420	0.01916
	7	0.72834	-0.60997	-0.26442		25	0.99488	0.06003	0.02602
	8	0.74010	-0.59816	-0.25930		26	0.99387	0.07583	0.03287
	9	0.75163	-0.58617	-0.25410		27	0.99257	0.09161	0.03971
	10	0.76294	-0.57400	-0.24883		28	0.99098	0.10737	0.04654
	11	0.77401	-0.56165	-0.24347		29	0.98908	0.12309	0.05335
	12	0.78485	-0.54913	-0.23805		30	0.98690	0.13877	0.06015
	13	0.79544	-0.53644	-0.23255		31	0.98442	0.15441	0.06693
	14	0.80579	-0.52358	-0.22697	IV	1	0.98165	0.17000	0.07369
	15	0.81590	-0.51056	-0.22133		2	0.97859	0.18554	0.08043

SŁÓŃCE

Data 2023		0 ^h UT			0 ^h UT				
		X ₂₀₀₀	Y ₂₀₀₀	Z ₂₀₀₀					
IV	3	0.97524	0.20103	0.08714	V	19	0.54398	0.78247	0.33919
	4	0.97160	0.21645	0.09383		20	0.52967	0.79091	0.34285
	5	0.96768	0.23181	0.10048		21	0.51521	0.79912	0.34641
	6	0.96347	0.24710	0.10711		22	0.50061	0.80711	0.34987
	7	0.95898	0.26232	0.11371		23	0.48586	0.81486	0.35323
	8	0.95420	0.27747	0.12027		24	0.47097	0.82238	0.35649
	9	0.94915	0.29253	0.12680		25	0.45594	0.82966	0.35965
	10	0.94382	0.30750	0.13329		26	0.44079	0.83670	0.36270
	11	0.93821	0.32239	0.13975		27	0.42552	0.84351	0.36565
	12	0.93232	0.33719	0.14616		28	0.41012	0.85007	0.36850
	13	0.92616	0.35188	0.15253		29	0.39461	0.85640	0.37124
	14	0.91973	0.36648	0.15886		30	0.37899	0.86248	0.37387
	15	0.91303	0.38097	0.16514		31	0.36326	0.86831	0.37640
	16	0.90605	0.39534	0.17137	VI	1	0.34743	0.87390	0.37882
	17	0.89882	0.40961	0.17755		2	0.33150	0.87924	0.38114
	18	0.89131	0.42375	0.18369		3	0.31548	0.88433	0.38335
	19	0.88354	0.43777	0.18976		4	0.29937	0.88917	0.38544
	20	0.87552	0.45166	0.19579		5	0.28318	0.89377	0.38744
	21	0.86723	0.46542	0.20175		6	0.26691	0.89811	0.38932
	22	0.85870	0.47904	0.20766		7	0.25056	0.90219	0.39109
	23	0.84991	0.49252	0.21350		8	0.23414	0.90603	0.39275
	24	0.84087	0.50586	0.21928		9	0.21765	0.90960	0.39430
	25	0.83159	0.51904	0.22500		10	0.20110	0.91293	0.39574
	26	0.82206	0.53208	0.23065		11	0.18449	0.91599	0.39707
	27	0.81230	0.54496	0.23623		12	0.16783	0.91880	0.39829
	28	0.80230	0.55768	0.24175		13	0.15112	0.92134	0.39939
	29	0.79207	0.57024	0.24719		14	0.13436	0.92363	0.40038
	30	0.78161	0.58263	0.25256		15	0.11756	0.92565	0.40126
V	1	0.77093	0.59485	0.25786		16	0.10073	0.92741	0.40202
	2	0.76002	0.60690	0.26308		17	0.08387	0.92891	0.40267
	3	0.74890	0.61877	0.26823		18	0.06699	0.93014	0.40321
	4	0.73756	0.63046	0.27330		19	0.05009	0.93111	0.40363
	5	0.72601	0.64198	0.27829		20	0.03317	0.93181	0.40394
	6	0.71425	0.65331	0.28320		21	0.01624	0.93226	0.40413
	7	0.70229	0.66445	0.28803		22	-0.00069	0.93243	0.40420
	8	0.69013	0.67540	0.29277		23	-0.01761	0.93235	0.40417
	9	0.67776	0.68615	0.29744		24	-0.03454	0.93200	0.40402
	10	0.66520	0.69672	0.30201		25	-0.05145	0.93138	0.40375
	11	0.65245	0.70708	0.30651		26	-0.06834	0.93051	0.40337
	12	0.63952	0.71724	0.31091		27	-0.08522	0.92937	0.40288
	13	0.62639	0.72720	0.31523		28	-0.10207	0.92797	0.40227
	14	0.61309	0.73695	0.31945		29	-0.11888	0.92631	0.40155
	15	0.59961	0.74648	0.32359		30	-0.13567	0.92439	0.40072
	16	0.58595	0.75581	0.32763	VII	1	-0.15241	0.92221	0.39977
	17	0.57213	0.76492	0.33158		2	-0.16911	0.91978	0.39871
	18	0.55813	0.77380	0.33543		3	-0.18577	0.91708	0.39754

SŁÓŃCE

Data 2023		0 ^h UT			0 ^h UT			
		X ₂₀₀₀	Y ₂₀₀₀	Z ₂₀₀₀				
VII	4	-0.20237	0.91413	0.39627	VIII	-0.83385	0.52653	0.22825
	5	-0.21891	0.91092	0.39487		-0.84321	0.51351	0.22261
	6	-0.23540	0.90746	0.39337		-0.85232	0.50034	0.21690
	7	-0.25181	0.90374	0.39176		-0.86119	0.48703	0.21113
	8	-0.26816	0.89977	0.39004		-0.86981	0.47358	0.20530
	9	-0.28444	0.89555	0.38821		-0.87818	0.45999	0.19941
	10	-0.30064	0.89107	0.38627		-0.88629	0.44627	0.19346
	11	-0.31675	0.88635	0.38422		-0.89416	0.43243	0.18746
	12	-0.33278	0.88137	0.38207		-0.90176	0.41847	0.18140
	13	-0.34871	0.87614	0.37980		-0.90911	0.40438	0.17530
	14	-0.36455	0.87067	0.37743		-0.91620	0.39019	0.16914
	15	-0.38028	0.86494	0.37495		-0.92303	0.37588	0.16294
	16	-0.39591	0.85898	0.37236		-0.92959	0.36146	0.15669
	17	-0.41143	0.85277	0.36967	IX	-0.93589	0.34694	0.15040
	18	-0.42683	0.84632	0.36688		-0.94192	0.33232	0.14406
	19	-0.44211	0.83962	0.36398		-0.94768	0.31761	0.13769
	20	-0.45726	0.83270	0.36097		-0.95316	0.30280	0.13127
	21	-0.47228	0.82553	0.35787		-0.95838	0.28791	0.12481
	22	-0.48717	0.81813	0.35466		-0.96332	0.27293	0.11832
	23	-0.50192	0.81050	0.35135		-0.96798	0.25787	0.11179
	24	-0.51653	0.80265	0.34794		-0.97236	0.24273	0.10523
	25	-0.53099	0.79456	0.34444		-0.97647	0.22753	0.09864
	26	-0.54530	0.78626	0.34084		-0.98029	0.21225	0.09202
	27	-0.55945	0.77773	0.33714		-0.98382	0.19692	0.08537
	28	-0.57344	0.76898	0.33335		-0.98707	0.18152	0.07870
	29	-0.58727	0.76002	0.32946		-0.99003	0.16608	0.07200
	30	-0.60094	0.75084	0.32548		-0.99270	0.15058	0.06528
	31	-0.61443	0.74145	0.32141		-0.99509	0.13504	0.05855
VIII	1	-0.62775	0.73186	0.31725		-0.99718	0.11946	0.05179
	2	-0.64090	0.72205	0.31300		-0.99898	0.10384	0.04502
	3	-0.65386	0.71205	0.30867		-1.00049	0.08820	0.03824
	4	-0.66664	0.70184	0.30424		-1.00170	0.07253	0.03145
	5	-0.67924	0.69144	0.29974		-1.00263	0.05684	0.02464
	6	-0.69164	0.68084	0.29514		-1.00326	0.04113	0.01783
	7	-0.70385	0.67005	0.29046		-1.00359	0.02541	0.01102
	8	-0.71586	0.65907	0.28570		-1.00363	0.00969	0.00420
	9	-0.72767	0.64789	0.28086		-1.00338	-0.00603	-0.00261
	10	-0.73927	0.63654	0.27594		-1.00283	-0.02175	-0.00943
	11	-0.75066	0.62500	0.27094		-1.00199	-0.03747	-0.01624
	12	-0.76184	0.61328	0.26586		-1.00086	-0.05317	-0.02304
	13	-0.77281	0.60139	0.26070		-0.99944	-0.06885	-0.02984
	14	-0.78355	0.58932	0.25547		-0.99772	-0.08452	-0.03663
	15	-0.79407	0.57709	0.25017		-0.99571	-0.10015	-0.04341
	16	-0.80437	0.56469	0.24480	X	-0.99341	-0.11576	-0.05018
	17	-0.81443	0.55213	0.23935		-0.99082	-0.13134	-0.05693
	18	-0.82426	0.53941	0.23384		-0.98794	-0.14688	-0.06366

SŁÓŃCE

Data 2023		0 ^h UT			0 ^h UT				
		X ₂₀₀₀	Y ₂₀₀₀	Z ₂₀₀₀					
X	4	-0.98477	-0.16238	-0.07038	XI	19	-0.55196	-0.75236	-0.32614
	5	-0.98131	-0.17783	-0.07708		20	-0.53732	-0.76099	-0.32988
	6	-0.97755	-0.19323	-0.08375		21	-0.52252	-0.76939	-0.33352
	7	-0.97351	-0.20857	-0.09040		22	-0.50756	-0.77756	-0.33706
	8	-0.96918	-0.22385	-0.09703		23	-0.49244	-0.78548	-0.34050
	9	-0.96456	-0.23907	-0.10362		24	-0.47717	-0.79317	-0.34383
	10	-0.95966	-0.25422	-0.11019		25	-0.46176	-0.80061	-0.34705
	11	-0.95446	-0.26929	-0.11673		26	-0.44621	-0.80780	-0.35017
	12	-0.94899	-0.28428	-0.12323		27	-0.43052	-0.81475	-0.35318
	13	-0.94323	-0.29919	-0.12969		28	-0.41470	-0.82145	-0.35608
	14	-0.93718	-0.31401	-0.13611		29	-0.39875	-0.82790	-0.35888
	15	-0.93086	-0.32874	-0.14250		30	-0.38268	-0.83409	-0.36156
	16	-0.92426	-0.34337	-0.14884	XII	1	-0.36649	-0.84003	-0.36414
	17	-0.91738	-0.35789	-0.15514		2	-0.35019	-0.84571	-0.36660
	18	-0.91022	-0.37231	-0.16139		3	-0.33378	-0.85113	-0.36895
	19	-0.90280	-0.38661	-0.16759		4	-0.31727	-0.85628	-0.37118
	20	-0.89510	-0.40080	-0.17374		5	-0.30065	-0.86118	-0.37331
	21	-0.88713	-0.41486	-0.17983		6	-0.28394	-0.86581	-0.37531
	22	-0.87890	-0.42880	-0.18588		7	-0.26714	-0.87017	-0.37720
	23	-0.87040	-0.44261	-0.19186		8	-0.25026	-0.87426	-0.37898
	24	-0.86165	-0.45629	-0.19779		9	-0.23330	-0.87808	-0.38063
	25	-0.85264	-0.46982	-0.20366		10	-0.21627	-0.88162	-0.38217
	26	-0.84337	-0.48322	-0.20947		11	-0.19916	-0.88490	-0.38359
	27	-0.83385	-0.49647	-0.21521		12	-0.18200	-0.88790	-0.38489
	28	-0.82408	-0.50957	-0.22089		13	-0.16478	-0.89062	-0.38607
	29	-0.81407	-0.52252	-0.22650		14	-0.14750	-0.89306	-0.38713
	30	-0.80381	-0.53531	-0.23204		15	-0.13018	-0.89523	-0.38807
	31	-0.79331	-0.54794	-0.23752		16	-0.11282	-0.89712	-0.38889
XI	1	-0.78257	-0.56040	-0.24292		17	-0.09543	-0.89872	-0.38959
	2	-0.77159	-0.57270	-0.24825		18	-0.07801	-0.90005	-0.39016
	3	-0.76038	-0.58483	-0.25351		19	-0.06057	-0.90110	-0.39062
	4	-0.74894	-0.59678	-0.25869		20	-0.04310	-0.90186	-0.39095
	5	-0.73727	-0.60855	-0.26379		21	-0.02563	-0.90235	-0.39116
	6	-0.72538	-0.62013	-0.26881		22	-0.00815	-0.90255	-0.39125
	7	-0.71326	-0.63153	-0.27375		23	0.00933	-0.90248	-0.39121
	8	-0.70093	-0.64274	-0.27861		24	0.02680	-0.90213	-0.39106
	9	-0.68838	-0.65375	-0.28339		25	0.04427	-0.90149	-0.39078
	10	-0.67562	-0.66457	-0.28808		26	0.06172	-0.90058	-0.39039
	11	-0.66266	-0.67518	-0.29268		27	0.07916	-0.89939	-0.38987
	12	-0.64949	-0.68558	-0.29719		28	0.09656	-0.89792	-0.38924
	13	-0.63612	-0.69578	-0.30161		29	0.11394	-0.89618	-0.38848
	14	-0.62256	-0.70576	-0.30594		30	0.13129	-0.89415	-0.38760
	15	-0.60880	-0.71553	-0.31017		31	0.14859	-0.89185	-0.38661
	16	-0.59486	-0.72507	-0.31431					
	17	-0.58074	-0.73439	-0.31835					
	18	-0.56644	-0.74349	-0.32229					