

SŁOŃCE

Data 2018	0 ^h UT			Data 2018	0 ^h UT				
	X ₂₀₀₀	Y ₂₀₀₀	Z ₂₀₀₀		X ₂₀₀₀	Y ₂₀₀₀	Z ₂₀₀₀		
I	1	0.17522	-0.88774	-0.38484	II	16	0.82861	-0.49356	-0.21396
	2	0.19239	-0.88473	-0.38353		17	0.83813	-0.48018	-0.20816
	3	0.20951	-0.88145	-0.38211		18	0.84740	-0.46665	-0.20230
	4	0.22656	-0.87789	-0.38057		19	0.85640	-0.45298	-0.19638
	5	0.24354	-0.87406	-0.37891		20	0.86514	-0.43917	-0.19039
	6	0.26044	-0.86996	-0.37713		21	0.87361	-0.42523	-0.18434
	7	0.27727	-0.86560	-0.37524		22	0.88181	-0.41116	-0.17824
	8	0.29401	-0.86096	-0.37323		23	0.88975	-0.39696	-0.17209
	9	0.31066	-0.85605	-0.37110		24	0.89741	-0.38264	-0.16588
	10	0.32722	-0.85088	-0.36886		25	0.90479	-0.36821	-0.15963
	11	0.34367	-0.84544	-0.36650		26	0.91190	-0.35367	-0.15332
	12	0.36002	-0.83974	-0.36403		27	0.91874	-0.33902	-0.14697
	13	0.37626	-0.83377	-0.36144		28	0.92529	-0.32427	-0.14058
	14	0.39238	-0.82755	-0.35874	III	1	0.93156	-0.30942	-0.13414
	15	0.40838	-0.82106	-0.35593		2	0.93755	-0.29448	-0.12766
	16	0.42426	-0.81432	-0.35301		3	0.94326	-0.27945	-0.12114
	17	0.44000	-0.80733	-0.34998		4	0.94868	-0.26434	-0.11459
	18	0.45560	-0.80008	-0.34684		5	0.95382	-0.24914	-0.10800
	19	0.47107	-0.79258	-0.34359		6	0.95867	-0.23387	-0.10138
	20	0.48638	-0.78484	-0.34023		7	0.96323	-0.21852	-0.09473
	21	0.50154	-0.77685	-0.33677		8	0.96749	-0.20311	-0.08805
	22	0.51655	-0.76862	-0.33320		9	0.97147	-0.18764	-0.08134
	23	0.53139	-0.76015	-0.32953		10	0.97515	-0.17211	-0.07461
	24	0.54607	-0.75145	-0.32576		11	0.97854	-0.15652	-0.06786
	25	0.56057	-0.74251	-0.32189		12	0.98163	-0.14089	-0.06108
	26	0.57490	-0.73335	-0.31791		13	0.98443	-0.12521	-0.05428
	27	0.58905	-0.72395	-0.31384		14	0.98693	-0.10949	-0.04747
	28	0.60302	-0.71434	-0.30967		15	0.98913	-0.09374	-0.04064
	29	0.61680	-0.70451	-0.30541		16	0.99103	-0.07796	-0.03380
	30	0.63039	-0.69445	-0.30105		17	0.99263	-0.06216	-0.02695
	31	0.64378	-0.68419	-0.29660		18	0.99393	-0.04634	-0.02009
II	1	0.65698	-0.67372	-0.29206		19	0.99494	-0.03050	-0.01323
	2	0.66997	-0.66303	-0.28743		20	0.99564	-0.01466	-0.00636
	3	0.68276	-0.65215	-0.28271		21	0.99604	0.00119	0.00051
	4	0.69534	-0.64106	-0.27790		22	0.99614	0.01704	0.00738
	5	0.70771	-0.62977	-0.27301		23	0.99595	0.03288	0.01425
	6	0.71986	-0.61829	-0.26803		24	0.99545	0.04871	0.02111
	7	0.73179	-0.60662	-0.26297		25	0.99466	0.06452	0.02797
	8	0.74349	-0.59476	-0.25783		26	0.99357	0.08032	0.03481
	9	0.75497	-0.58272	-0.25261		27	0.99219	0.09608	0.04165
	10	0.76621	-0.57049	-0.24731		28	0.99051	0.11182	0.04847
	11	0.77722	-0.55809	-0.24193		29	0.98854	0.12752	0.05528
	12	0.78799	-0.54551	-0.23648		30	0.98627	0.14319	0.06207
	13	0.79852	-0.53277	-0.23096		31	0.98372	0.15881	0.06884
	14	0.80880	-0.51986	-0.22536	IV	1	0.98087	0.17438	0.07559
II	15	0.81883	-0.50679	-0.21970	IV	2	0.97773	0.18990	0.08232

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IV	3	0.97431	0.20537	0.08903	V	19	0.54002	0.78486	0.34024
	4	0.97060	0.22078	0.09571		20	0.52567	0.79323	0.34387
	5	0.96660	0.23612	0.10236		21	0.51117	0.80138	0.34740
	6	0.96232	0.25140	0.10898		22	0.49652	0.80929	0.35083
	7	0.95775	0.26660	0.11557		23	0.48174	0.81697	0.35416
	8	0.95290	0.28173	0.12213		24	0.46682	0.82442	0.35739
	9	0.94777	0.29677	0.12865		25	0.45176	0.83163	0.36051
	10	0.94235	0.31173	0.13513		26	0.43658	0.83860	0.36354
	11	0.93666	0.32659	0.14157		27	0.42128	0.84534	0.36646
	12	0.93070	0.34136	0.14798		28	0.40586	0.85184	0.36928
	13	0.92446	0.35604	0.15434		29	0.39032	0.85810	0.37199
	14	0.91794	0.37060	0.16065		30	0.37468	0.86411	0.37459
	15	0.91116	0.38506	0.16692		31	0.35893	0.86988	0.37710
	16	0.90410	0.39941	0.17314	VI	1	0.34307	0.87540	0.37949
	17	0.89678	0.41364	0.17930		2	0.32712	0.88068	0.38178
	18	0.88920	0.42774	0.18542		3	0.31108	0.88571	0.38396
	19	0.88135	0.44172	0.19148		4	0.29494	0.89049	0.38603
	20	0.87325	0.45557	0.19748		5	0.27872	0.89502	0.38799
	21	0.86489	0.46928	0.20343		6	0.26243	0.89929	0.38984
	22	0.85628	0.48286	0.20932		7	0.24605	0.90331	0.39158
	23	0.84742	0.49629	0.21514		8	0.22961	0.90708	0.39322
	24	0.83832	0.50958	0.22090		9	0.21309	0.91058	0.39474
	25	0.82897	0.52272	0.22660		10	0.19652	0.91383	0.39614
	26	0.81938	0.53570	0.23223		11	0.17989	0.91682	0.39744
	27	0.80956	0.54853	0.23779		12	0.16321	0.91955	0.39862
	28	0.79950	0.56120	0.24328		13	0.14648	0.92202	0.39970
	29	0.78921	0.57371	0.24870		14	0.12970	0.92423	0.40065
	30	0.77870	0.58605	0.25405		15	0.11290	0.92617	0.40150
V	1	0.76796	0.59823	0.25933		16	0.09606	0.92785	0.40223
	2	0.75700	0.61023	0.26453		17	0.07919	0.92927	0.40284
	3	0.74582	0.62205	0.26966		18	0.06230	0.93043	0.40334
	4	0.73443	0.63370	0.27471		19	0.04540	0.93132	0.40373
	5	0.72282	0.64517	0.27968		20	0.02848	0.93194	0.40400
	6	0.71101	0.65645	0.28457		21	0.01156	0.93231	0.40416
	7	0.69899	0.66754	0.28938		22	-0.00536	0.93241	0.40420
	8	0.68676	0.67845	0.29410		23	-0.02228	0.93225	0.40413
	9	0.67434	0.68915	0.29875		24	-0.03920	0.93182	0.40395
	10	0.66173	0.69966	0.30330		25	-0.05610	0.93114	0.40365
	11	0.64892	0.70997	0.30777		26	-0.07298	0.93019	0.40324
	12	0.63592	0.72008	0.31215		27	-0.08984	0.92899	0.40272
	13	0.62274	0.72998	0.31644		28	-0.10668	0.92752	0.40208
	14	0.60938	0.73967	0.32064		29	-0.12349	0.92579	0.40133
	15	0.59584	0.74914	0.32475		30	-0.14026	0.92381	0.40047
	16	0.58214	0.75840	0.32876	VII	1	-0.15699	0.92156	0.39950
	17	0.56826	0.76745	0.33268		2	-0.17368	0.91906	0.39841
V	18	0.55422	0.77627	0.33651	VII	3	-0.19033	0.91630	0.39722

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VII	4	-0.20692	0.91328	0.39591	VIII	19	-0.83644	0.52288	0.22668
	5	-0.22345	0.91000	0.39449		20	-0.84572	0.50982	0.22102
	6	-0.23992	0.90647	0.39296		21	-0.85476	0.49662	0.21529
	7	-0.25633	0.90268	0.39131		22	-0.86355	0.48327	0.20950
	8	-0.27267	0.89864	0.38956		23	-0.87210	0.46979	0.20366
	9	-0.28893	0.89435	0.38770		24	-0.88040	0.45617	0.19775
	10	-0.30511	0.88980	0.38573		25	-0.88845	0.44243	0.19180
	11	-0.32120	0.88500	0.38365		26	-0.89625	0.42855	0.18578
	12	-0.33721	0.87994	0.38146		27	-0.90379	0.41456	0.17971
	13	-0.35312	0.87464	0.37916		28	-0.91107	0.40045	0.17360
	14	-0.36893	0.86909	0.37675		29	-0.91809	0.38622	0.16743
	15	-0.38463	0.86329	0.37424		30	-0.92485	0.37188	0.16121
	16	-0.40023	0.85725	0.37162		31	-0.93134	0.35744	0.15495
	17	-0.41571	0.85097	0.36890	IX	1	-0.93757	0.34289	0.14864
	18	-0.43107	0.84445	0.36607		2	-0.94353	0.32824	0.14229
	19	-0.44631	0.83769	0.36314		3	-0.94922	0.31350	0.13590
	20	-0.46142	0.83069	0.36011		4	-0.95464	0.29866	0.12947
	21	-0.47640	0.82346	0.35698		5	-0.95978	0.28373	0.12300
	22	-0.49124	0.81600	0.35374		6	-0.96465	0.26873	0.11650
	23	-0.50595	0.80831	0.35041		7	-0.96923	0.25364	0.10996
	24	-0.52051	0.80039	0.34698		8	-0.97353	0.23848	0.10339
	25	-0.53492	0.79225	0.34345		9	-0.97755	0.22325	0.09678
	26	-0.54918	0.78389	0.33982		10	-0.98129	0.20795	0.09015
	27	-0.56329	0.77530	0.33610		11	-0.98474	0.19259	0.08350
	28	-0.57724	0.76650	0.33228		12	-0.98790	0.17718	0.07681
	29	-0.59103	0.75748	0.32837		13	-0.99078	0.16172	0.07011
	30	-0.60465	0.74825	0.32437		14	-0.99336	0.14621	0.06339
	31	-0.61810	0.73881	0.32028		15	-0.99566	0.13066	0.05665
VIII	1	-0.63138	0.72916	0.31609		16	-0.99766	0.11507	0.04989
	2	-0.64448	0.71931	0.31182		17	-0.99938	0.09945	0.04312
	3	-0.65740	0.70925	0.30746		18	-1.00080	0.08380	0.03633
	4	-0.67014	0.69898	0.30301		19	-1.00193	0.06813	0.02954
	5	-0.68268	0.68852	0.29848		20	-1.00277	0.05244	0.02274
	6	-0.69504	0.67787	0.29386		21	-1.00332	0.03674	0.01593
	7	-0.70720	0.66702	0.28915		22	-1.00358	0.02102	0.00912
	8	-0.71916	0.65598	0.28437		23	-1.00354	0.00531	0.00230
	9	-0.73091	0.64475	0.27950		24	-1.00321	-0.01041	-0.00451
	10	-0.74246	0.63333	0.27455		25	-1.00259	-0.02613	-0.01133
	11	-0.75379	0.62174	0.26953		26	-1.00167	-0.04184	-0.01814
	12	-0.76491	0.60997	0.26442		27	-1.00046	-0.05753	-0.02494
	13	-0.77581	0.59802	0.25925		28	-0.99897	-0.07321	-0.03174
	14	-0.78649	0.58590	0.25399		29	-0.99717	-0.08887	-0.03853
	15	-0.79694	0.57362	0.24867		30	-0.99509	-0.10451	-0.04530
	16	-0.80717	0.56117	0.24327	X	1	-0.99271	-0.12012	-0.05207
	17	-0.81716	0.54856	0.23781		2	-0.99004	-0.13569	-0.05882
VIII	18	-0.82692	0.53580	0.23228	X	3	-0.98708	-0.15122	-0.06555

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X	4	-0.98383	-0.16671	-0.07226	XI	19	-0.54783	-0.75477	-0.32719
	5	-0.98028	-0.18215	-0.07896		20	-0.53315	-0.76334	-0.33091
	6	-0.97645	-0.19754	-0.08563		21	-0.51830	-0.77167	-0.33452
	7	-0.97232	-0.21288	-0.09228		22	-0.50330	-0.77977	-0.33803
	8	-0.96791	-0.22814	-0.09889		23	-0.48815	-0.78763	-0.34144
	9	-0.96320	-0.24335	-0.10548		24	-0.47284	-0.79525	-0.34474
	10	-0.95821	-0.25848	-0.11204		25	-0.45739	-0.80263	-0.34794
	11	-0.95293	-0.27353	-0.11857		26	-0.44180	-0.80976	-0.35103
	12	-0.94737	-0.28850	-0.12506		27	-0.42608	-0.81664	-0.35401
	13	-0.94152	-0.30338	-0.13151		28	-0.41022	-0.82327	-0.35689
	14	-0.93539	-0.31817	-0.13792		29	-0.39424	-0.82966	-0.35965
	15	-0.92899	-0.33286	-0.14429		30	-0.37813	-0.83578	-0.36231
	16	-0.92230	-0.34746	-0.15062	XII	1	-0.36190	-0.84165	-0.36485
	17	-0.91534	-0.36194	-0.15690		2	-0.34557	-0.84726	-0.36728
	18	-0.90811	-0.37632	-0.16313		3	-0.32912	-0.85261	-0.36960
	19	-0.90061	-0.39059	-0.16932		4	-0.31257	-0.85769	-0.37181
	20	-0.89284	-0.40473	-0.17545		5	-0.29592	-0.86251	-0.37389
	21	-0.88480	-0.41876	-0.18153		6	-0.27918	-0.86706	-0.37587
	22	-0.87650	-0.43266	-0.18756		7	-0.26235	-0.87134	-0.37772
	23	-0.86794	-0.44643	-0.19353		8	-0.24544	-0.87535	-0.37946
	24	-0.85912	-0.46007	-0.19944		9	-0.22845	-0.87909	-0.38108
	25	-0.85004	-0.47356	-0.20529		10	-0.21139	-0.88256	-0.38259
	26	-0.84071	-0.48692	-0.21108		11	-0.19427	-0.88574	-0.38397
	27	-0.83113	-0.50013	-0.21681		12	-0.17709	-0.88866	-0.38523
	28	-0.82129	-0.51319	-0.22247		13	-0.15985	-0.89130	-0.38638
	29	-0.81121	-0.52610	-0.22806		14	-0.14257	-0.89366	-0.38740
	30	-0.80089	-0.53885	-0.23359		15	-0.12524	-0.89574	-0.38830
	31	-0.79032	-0.55144	-0.23905		16	-0.10788	-0.89754	-0.38909
XI	1	-0.77951	-0.56387	-0.24443		17	-0.09048	-0.89907	-0.38975
	2	-0.76846	-0.57612	-0.24975		18	-0.07306	-0.90032	-0.39029
	3	-0.75719	-0.58821	-0.25498		19	-0.05562	-0.90128	-0.39071
	4	-0.74568	-0.60011	-0.26014		20	-0.03816	-0.90197	-0.39101
	5	-0.73394	-0.61183	-0.26522		21	-0.02069	-0.90238	-0.39118
	6	-0.72197	-0.62337	-0.27023		22	-0.00321	-0.90251	-0.39124
	7	-0.70979	-0.63472	-0.27514		23	0.01427	-0.90236	-0.39118
	8	-0.69739	-0.64587	-0.27998		24	0.03174	-0.90194	-0.39099
	9	-0.68478	-0.65683	-0.28473		25	0.04920	-0.90123	-0.39068
	10	-0.67195	-0.66758	-0.28939		26	0.06665	-0.90025	-0.39026
	11	-0.65893	-0.67813	-0.29396		27	0.08408	-0.89898	-0.38971
	12	-0.64570	-0.68847	-0.29845		28	0.10149	-0.89744	-0.38904
	13	-0.63227	-0.69860	-0.30284		29	0.11886	-0.89562	-0.38825
	14	-0.61865	-0.70851	-0.30714		30	0.13620	-0.89352	-0.38734
	15	-0.60485	-0.71821	-0.31134		31	0.15350	-0.89114	-0.38631
	16	-0.59086	-0.72769	-0.31545					
	17	-0.57669	-0.73694	-0.31946					
XI	18	-0.56234	-0.74597	-0.32338					