

<はやぶさ2 小惑星遷移軌道計画情報 (公開用概略計算値)>

公開日: 2015年4月30日
 # Released by JAXA はやぶさ2 プロジェクトチーム

▼ご利用にあたっての注意点▲

1. 本軌道計画情報は、「はやぶさ2」が太陽系空間内をどのような軌道で移動していくかを表示するために作成された概略軌道データです。実際の軌道は、今後の軌道制御やそれともなう新たな軌道計算・軌道決定などによって決まります。
2. 本軌道計画情報は、各種アプリケーション・コンテンツ (WEB、CG、映像画像、教材他) の制作をはじめ、さまざまな創作活動の基データとしてご利用いただけます。
 なお、利用条件等については、
 JAXAwebサイト<サイトポリシー・利用規約>
http://www.jaxa.jp/policy_j.html
 をご参照ください。
3. 本軌道計画情報は、打上げ日時・探査機基本性能等の条件を基にした概略計算値であり、実際の探査機の飛行状態等を踏まえた軌道情報・航行ステータスとは異なります。
4. 数値精度: 0.0001au (~1.5万km)
5. 今回の軌道計画情報範囲: 打上げ~小惑星近傍(小惑星と探査機の距離約6,000km) まで
6. なお、軌道計画の大幅な変更等が生じない限り、本軌道計画情報 (公開用概略計算値) の更新は行わない予定です。予めご了承ください。

■各項目解説■

#L+ : 総飛行時間 打ち上げ時刻【2014/12/3 4:22:04 UTC】からの通算日。単位は[日]
 *UTC=協定世界時: Coordinated universal time (なお、日本標準時 (JST) は UTC+9時間)

X, Y, Z : 黄道面座標系での探査機/地球/小惑星位置。単位は[au: 天文単位] (天文単位、太陽=地球距離(ここでは149597870700.0m)を1とした距離)
 # Rs : 探査機と太陽の距離。単位は[万公里メートル]
 # Re : 探査機と地球との距離。単位は[万公里メートル]
 # Ra : 探査機と1999JU3との距離。単位は[万公里メートル]
 # Vs : 巡航速度 (太陽相対速度)。単位は[キロメートル毎秒]
 # Ve : 地球相対速度。単位は[キロメートル毎秒]
 # alpha : 地球から見た探査機の赤経。単位は[度]
 # delta : 地球から見た探査機の赤緯。単位は[度]
 # Dflt : 飛行距離。単位は[万公里メートル]

UTC	L+ [day]	X [au]	Y [au]	Z [au]	X [au]	Y [au]	Z [au]	X [au]	Y [au]	Z [au]	Rs [10 ⁴ km]	Re [10 ⁴ km]	Ra [10 ⁴ km]	Vs [km/s]	Ve [km/s]	alpha [deg]	delta [deg]	Dflt [10 ⁴ km]
2014/12/03.05:00:00	0.0	0.325037	0.930594	-0.000010	0.325234	0.930600	-0.000031	-0.805848	-1.019952	-0.045649	14746.2	3.0	33736.3	23.54	6.92	-175.83	4.86	0.0
2014/12/04.05:00:00	1.0	0.309534	0.937664	-0.002231	0.308668	0.936062	-0.000030	-0.796246	-1.030534	-0.044366	14771.8	42.7	33778.4	30.20	4.78	69.75	-28.92	257.1
2014/12/05.05:00:00	2.0	0.293598	0.944389	-0.004351	0.292008	0.941235	-0.000030	-0.786536	-1.040977	-0.043077	14795.0	83.5	33816.6	30.15	4.68	70.98	-29.05	517.8
2014/12/06.05:00:00	3.0	0.277564	0.950806	-0.006443	0.275259	0.946119	-0.000030	-0.776723	-1.051282	-0.041782	14817.9	123.7	33853.9	30.10	4.64	71.41	-29.08	778.0
2014/12/07.05:00:00	4.0	0.261440	0.956926	-0.008523	0.258425	0.950711	-0.000029	-0.766806	-1.061448	-0.040482	14840.6	163.8	33890.3	30.05	4.63	71.63	-29.08	1037.9
2014/12/08.05:00:00	5.0	0.245236	0.962751	-0.010594	0.241511	0.955011	-0.000029	-0.756788	-1.071475	-0.039176	14863.3	203.7	33925.9	30.01	4.61	71.76	-29.06	1297.3
2014/12/09.05:00:00	6.0	0.228956	0.968283	-0.012658	0.224523	0.959017	-0.000029	-0.746672	-1.081361	-0.037865	14886.0	243.5	33960.8	29.96	4.61	71.85	-29.04	1556.4
2014/12/10.05:00:00	7.0	0.212606	0.973523	-0.014716	0.207464	0.962728	-0.000029	-0.736458	-1.091106	-0.036550	14908.6	283.3	33994.9	29.92	4.60	71.91	-29.00	1815.1
2014/12/11.05:00:00	8.0	0.196192	0.978469	-0.016767	0.190340	0.966141	-0.000030	-0.726149	-1.100709	-0.035229	14931.1	323.1	34028.3	29.87	4.60	71.96	-28.95	2073.4
2014/12/12.05:00:00	9.0	0.179719	0.983124	-0.018811	0.173156	0.969257	-0.000030	-0.715746	-1.110171	-0.033904	14953.7	362.8	34060.9	29.83	4.60	72.00	-28.89	2331.3
2014/12/13.05:00:00	10.0	0.163193	0.987486	-0.020849	0.155918	0.972072	-0.000030	-0.705251	-1.119491	-0.032575	14976.2	402.5	34092.8	29.78	4.60	72.02	-28.82	2588.8
2014/12/14.05:00:00	11.0	0.146618	0.991557	-0.022880	0.138629	0.974587	-0.000031	-0.694667	-1.128667	-0.031242	14998.7	442.2	34124.0	29.74	4.60	72.05	-28.74	2845.9
2014/12/15.05:00:00	12.0	0.129999	0.995335	-0.024903	0.121296	0.976800	-0.000032	-0.683994	-1.137701	-0.029904	15021.1	482.0	34154.4	29.69	4.60	72.07	-28.65	3102.7
2014/12/16.05:00:00	13.0	0.113343	0.998823	-0.026919	0.103924	0.978710	-0.000032	-0.673234	-1.146590	-0.028563	15043.5	521.7	34184.0	29.65	4.60	72.09	-28.55	3359.0
2014/12/17.05:00:00	14.0	0.096653	1.002019	-0.028925	0.086519	0.980315	-0.000033	-0.662390	-1.155335	-0.027218	15065.8	561.5	34212.9	29.61	4.60	72.12	-28.44	3615.0
2014/12/18.05:00:00	15.0	0.079935	1.004924	-0.030923	0.069084	0.981616	-0.000033	-0.651463	-1.163936	-0.025870	15088.0	601.2	34241.0	29.56	4.61	72.14	-28.33	3870.6
2014/12/19.05:00:00	16.0	0.063194	1.007540	-0.032912	0.051628	0.982610	-0.000034	-0.640455	-1.172391	-0.024519	15110.2	641.0	34268.3	29.52	4.61	72.17	-28.20	4125.8
2014/12/20.05:00:00	17.0	0.046434	1.009866	-0.034891	0.034154	0.983299	-0.000034	-0.629367	-1.180701	-0.023164	15132.3	680.9	34294.9	29.47	4.62	72.20	-28.06	4380.7
2014/12/21.05:00:00	18.0	0.029662	1.011903	-0.036860	0.016668	0.983680	-0.000035	-0.618202	-1.188866	-0.021807	15154.4	720.8	34320.7	29.43	4.62	72.23	-27.92	4635.1
2014/12/22.05:00:00	19.0	0.012880	1.013651	-0.038817	-0.000822	0.983754	-0.000035	-0.606960	-1.196884	-0.020447	15176.3	760.7	34345.7	29.39	4.63	72.27	-27.77	4889.2
2014/12/23.05:00:00	20.0	-0.003905	1.015112	-0.040764	-0.018313	0.983520	-0.000035	-0.595645	-1.204755	-0.019084	15198.2	800.7	34369.9	29.35	4.64	72.31	-27.61	5143.0

2016/02/29.05:00:00	453.0	-0.975287	0.192883	-0.102296	-0.929841	0.341772	-0.000011	-0.978657	-0.768843	-0.070691	14951.2	2786.5	14395.1	31.41	2.16	-115.35	-55.26	118472.9
2016/03/01.05:00:00	454.0	-0.980711	0.175588	-0.102221	-0.935920	0.325511	-0.000010	-0.971719	-0.782114	-0.069581	14982.8	2795.9	14336.0	31.35	2.09	-114.81	-55.17	118744.0
2016/03/02.05:00:00	455.0	-0.985845	0.158241	-0.102117	-0.941716	0.309150	-0.000010	-0.964634	-0.795265	-0.068461	15014.7	2804.6	14276.7	31.29	2.03	-114.28	-55.07	119014.7
2016/03/03.05:00:00	456.0	-0.990691	0.140847	-0.101983	-0.947225	0.292694	-0.000009	-0.957403	-0.802898	-0.067330	15047.1	2812.5	14217.2	31.23	1.97	-113.76	-54.98	119284.8
2016/03/04.05:00:00	457.0	-0.995250	0.123413	-0.101819	-0.952447	0.276147	-0.000008	-0.950029	-0.821209	-0.066189	15079.9	2819.6	14157.6	31.17	1.91	-113.25	-54.88	119554.4
2016/03/05.05:00:00	458.0	-0.999520	0.105943	-0.101626	-0.957380	0.259515	-0.000007	-0.942514	-0.833997	-0.065038	15113.0	2826.0	14097.8	31.11	1.85	-112.75	-54.78	119823.5
2016/03/06.05:00:00	459.0	-1.003504	0.088443	-0.101404	-0.962022	0.242803	-0.000006	-0.934859	-0.846663	-0.063877	15146.6	2831.7	14037.9	31.05	1.79	-112.27	-54.67	120092.0
2016/03/07.05:00:00	460.0	-1.007202	0.070917	-0.101152	-0.966371	0.226015	-0.000005	-0.927067	-0.859204	-0.062708	15180.4	2836.6	13977.8	30.98	1.73	-111.80	-54.57	120360.0
2016/03/08.05:00:00	461.0	-1.010614	0.053372	-0.100872	-0.970426	0.209159	-0.000004	-0.919139	-0.871620	-0.061529	15214.7	2840.7	13917.6	30.92	1.67	-111.35	-54.46	120627.4
2016/03/09.05:00:00	462.0	-1.013742	0.035811	-0.100564	-0.974186	0.192238	-0.000002	-0.911078	-0.883909	-0.060341	15249.2	2844.2	13857.3	30.86	1.62	-110.91	-54.35	120894.3
2016/03/10.05:00:00	463.0	-1.016587	0.018241	-0.100227	-0.977650	0.175258	-0.000001	-0.902886	-0.896071	-0.059144	15284.1	2846.9	13797.0	30.79	1.57	-110.49	-54.23	121160.6
2016/03/11.05:00:00	464.0	-1.019150	0.000665	-0.099863	-0.980817	0.158226	0.000000	-0.894565	-0.908104	-0.057939	15319.3	2849.0	13736.5	30.73	1.52	-110.08	-54.12	121426.3
2016/03/12.05:00:00	465.0	-1.021432	-0.016911	-0.099471	-0.983686	0.141147	0.000001	-0.886116	-0.920008	-0.056726	15354.8	2850.3	13675.9	30.66	1.47	-109.70	-54.00	121691.5
2016/03/13.05:00:00	466.0	-1.023435	-0.034482	-0.099052	-0.986257	0.124026	0.000003	-0.877541	-0.931782	-0.055504	15390.6	2851.0	13615.3	30.60	1.43	-109.32	-53.87	121956.2
2016/03/14.05:00:00	467.0	-1.025159	-0.052044	-0.098606	-0.988530	0.106870	0.000003	-0.868843	-0.943424	-0.054275	15426.6	2851.0	13554.6	30.53	1.39	-108.97	-53.75	122220.3
2016/03/15.05:00:00	468.0	-1.026607	-0.069591	-0.098134	-0.990504	0.089683	0.000004	-0.860024	-0.954935	-0.053038	15462.9	2850.3	13493.8	30.46	1.36	-108.63	-53.62	122483.7
2016/03/16.05:00:00	469.0	-1.027780	-0.087120	-0.097635	-0.992180	0.072470	0.000005	-0.851085	-0.966313	-0.051794	15499.5	2849.0	13433.0	30.40	1.33	-108.31	-53.49	122746.7
2016/03/17.05:00:00	470.0	-1.028679	-0.104626	-0.097110	-0.993558	0.055238	0.000005	-0.842028	-0.977557	-0.050543	15536.3	2847.1	13372.2	30.33	1.31	-108.01	-53.35	123009.0
2016/03/18.05:00:00	471.0	-1.029307	-0.122104	-0.096559	-0.994638	0.037990	0.000006	-0.832856	-0.988667	-0.049284	15573.3	2844.6	13311.3	30.26	1.29	-107.72	-53.21	123270.8
2016/03/19.05:00:00	472.0	-1.029664	-0.139550	-0.095983	-0.995420	0.020732	0.000006	-0.823569	-0.999642	-0.048019	15610.6	2841.5	13250.5	30.20	1.28	-107.46	-53.07	123532.0
2016/03/20.05:00:00	473.0	-1.029754	-0.156960	-0.095382	-0.995905	0.003470	0.000006	-0.814171	-1.010481	-0.046748	15648.0	2837.7	13189.6	30.13	1.27	-107.21	-52.92	123792.6
2016/03/21.05:00:00	474.0	-1.029577	-0.174329	-0.094757	-0.996093	-0.013793	0.000006	-0.804663	-1.021183	-0.045470	15685.7	2833.4	13128.7	30.06	1.27	-106.99	-52.77	124052.6
2016/03/22.05:00:00	475.0	-1.029136	-0.191654	-0.094107	-0.995984	-0.031051	0.000006	-0.795046	-1.031748	-0.044186	15723.5	2828.5	13067.8	29.99	1.27	-106.78	-52.61	124312.0
2016/03/23.05:00:00	476.0	-1.028433	-0.208929	-0.093433	-0.995578	-0.048299	0.000006	-0.785324	-1.042175	-0.042896	15761.5	2823.1	13006.9	29.93	1.28	-106.60	-52.45	124570.9
2016/03/24.05:00:00	477.0	-1.027469	-0.226152	-0.092735	-0.994877	-0.065533	0.000006	-0.775497	-1.052464	-0.041601	15799.7	2817.1	12946.0	29.86	1.30	-106.44	-52.29	124829.1
2016/03/25.05:00:00	478.0	-1.026247	-0.243317	-0.092014	-0.993880	-0.082748	0.000006	-0.765567	-1.062613	-0.040299	15838.0	2810.6	12885.2	29.79	1.32	-106.30	-52.12	125086.8
2016/03/26.05:00:00	479.0	-1.024770	-0.260423	-0.091271	-0.992588	-0.099938	0.000006	-0.755537	-1.072623	-0.038993	15876.4	2803.6	12824.4	29.72	1.35	-106.18	-51.95	125343.9
2016/03/27.05:00:00	480.0	-1.023039	-0.277463	-0.090504	-0.991001	-0.117100	0.000006	-0.745408	-1.082492	-0.037682	15915.0	2796.1	12763.6	29.65	1.38	-106.08	-51.77	125600.4
2016/03/28.05:00:00	481.0	-1.021056	-0.294436	-0.089715	-0.989121	-0.134228	0.000007	-0.735181	-1.092220	-0.036365	15953.7	2788.2	12702.9	29.58	1.42	-106.01	-51.59	125856.3
2016/03/29.05:00:00	482.0	-1.018824	-0.311336	-0.088905	-0.986946	-0.151317	0.000007	-0.724860	-1.101807	-0.035044	15992.5	2779.8	12642.2	29.52	1.47	-105.96	-51.40	126111.6
2016/03/30.05:00:00	483.0	-1.016346	-0.328161	-0.088073	-0.984479	-0.168362	0.000008	-0.714445	-1.111252	-0.033718	16031.5	2771.0	12581.6	29.45	1.51	-105.94	-51.21	126366.3
2016/03/31.05:00:00	484.0	-1.013623	-0.344908	-0.087219	-0.981720	-0.185359	0.000009	-0.703939	-1.120555	-0.032388	16070.5	2761.8	12521.1	29.38	1.57	-105.94	-51.01	126620.5
2016/04/01.05:00:00	485.0	-1.010658	-0.361571	-0.086345	-0.978669	-0.202303	0.000009	-0.693342	-1.129714	-0.031054	16109.5	2752.2	12460.6	29.31	1.62	-105.97	-50.81	126874.0
2016/04/02.05:00:00	486.0	-1.007454	-0.378150	-0.085450	-0.975328	-0.219188	0.000010	-0.682658	-1.138730	-0.029716	16148.7	2742.4	12400.2	29.24	1.68	-106.03	-50.59	127126.9
2016/04/03.05:00:00	487.0	-1.004013	-0.394639	-0.084536	-0.971696	-0.236010	0.000012	-0.671887	-1.147602	-0.028375	16187.9	2732.2	12339.9	29.17	1.75	-106.11	-50.37	127379.3
2016/04/04.05:00:00	488.0	-1.000337	-0.411036	-0.083601	-0.967776	-0.252763	0.000013	-0.661032	-1.156330	-0.027029	16227.2	2721.8	12279.7	29.11	1.81	-106.22	-50.15	127631.1
2016/04/05.05:00:00	489.0	-0.996429	-0.427337	-0.082647	-0.963569	-0.269443	0.000014	-0.650095	-1.164913	-0.025681	16266.4	2711.1	12219.6	29.04	1.88	-106.35	-49.91	127882.3
2016/04/06.05:00:00	490.0	-0.992292	-0.443540	-0.081675	-0.959074	-0.286043	0.000015	-0.639076	-1.173351	-0.024239	16305.8	2700.3	12159.6	28.97	1.96	-106.52	-49.67	128132.8
2016/04/07.05:00:00	491.0	-0.987930	-0.459639	-0.080684	-0.954295	-0.302559	0.000017	-0.627978	-1.181644	-0.022974	16345.1	2689.4	12099.7	28.90	2.03	-106.71	-49.41	128382.8
2016/04/08.05:00:00	492.0	-0.983343	-0.475632	-0.079675	-0.949233	-0.318985	0.000018	-0.616802	-1.189790	-0.021616	16384.5	2678.3	12040.0	28.83	2.11	-106.94	-49.15	128632.2
2016/04/09.05:00:00	493.0	-0.978536	-0.491517	-0.078649	-0.943889	-0.335316	0.000019	-0.605551	-1.197791	-0.020255	16423.8	2667.2	11980.4	28.76	2.19	-107.19	-48.88	128880.9
2016/04/10.05:00:00	494.0	-0.973510	-0.507290	-0.077606	-0.938266	-0.351547	0.000020	-0.594226	-1.205645	-0.018893	16463.2	2656.1	11921.0	28.69	2.27	-107.47	-48.59	129129.1
2016/04/11.05:00:00	495.0	-0.968269	-0.522949	-0.076546	-0.932366	-0.367673	0.000021	-0.582828	-1.213352	-0.017527	16502.5	2645.1	11861.7	28.62	2.35	-107.77	-48.30	129376.6
2016/04/12.05:00:00	496.0	-0.962814	-0.538492	-0.075469	-0.926191	-0.383690	0.000021	-0.571360	-1.220912	-0.016160	16541.8	2634.1	11802.6	28.55	2.43	-108.11	-47.99	129623.5
2016/04/13.05:00:00	497.0	-0.957150	-0.553915	-0.074377	-0.919745	-0.399592	0.000022	-0.559822	-1.228324	-0.014791	16581.0	2623.3	11743.7	28.48	2.51	-108.47	-47.67	129869.9
2016/04/14.05:00:00	498.0	-0.951278	-0.569216	-0.073268	-0.913029	-0.415375	0.000022	-0.548217	-1.235589	-0.013420	16620.2	2612.7	11684.9	28.41	2.59	-108.86	-47.34	130115.6
2016/04/15.05:00:00	499.0	-0.945202	-0.584393	-0.072145	-0.906045	-0.431034	0.000022	-0.536547	-1.242705	-0.012047	16659.4	2602.3	11626.2	28.34	2.68	-109.27	-47.00	130360.8
2016/04/16.05:00:00	500.0	-0.938923	-0.599444	-0.071006	-0.898798	-0.446567	0.000022	-0.524812	-1.249674	-0.010673	16698.4	2592.3	11567.8	28.27	2.76	-109.71	-46.64	130605.3
2016/04/17.05:00:00	501.0	-0.932446	-0.614366	-0.069852	-0.891288	-0.461967	0.000022	-0.513015	-1.256493	-0.009279	16737.5	2582.5	11509.5	28.20	2.85	-110.17	-46.26	130849.3
2016/04/18.05:00:00	502.0	-0.925772	-0.629157	-0.068684	-0.883519	-0.477232	0.000022	-0.501158	-1.263165	-0.007921	16776.4	2573.2	11451.4	28.14	2.93	-110.66	-45.87	131092.7
2016/04/19.05:00:00	503.0	-0.918904	-0.643815	-0.067502														

Table with 14 columns: Date, X, Y, Z, U, V, W, P, Q, R, S, T, U, V, W. Rows represent daily orbital data for Hayabusa 2, starting from 2016/12/13 to 2017/02/22.

Table with 25 columns: Date (YYYY/MM/DD HH:MM:SS), X, Y, Z, VX, VY, VZ, AX, AY, AZ, BX, BY, BZ, CX, CY, CZ, DX, DY, DZ, EX, EY, EZ, FX, FY, FZ. The table contains 100 rows of orbital data for Hayabusa 2.

2018/05/01.05:00:00	1245.0	0.379244	0.916749	0.007224	-0.765687	-0.654769	0.000028	0.380262	0.917090	0.007333	14841.9	29087.4	16.1	32.18	59.09	51.49	18.96	304784.1
2018/05/02.05:00:00	1246.0	0.361521	0.922059	0.005319	-0.754681	-0.667810	0.000029	0.362482	0.922390	0.005422	14816.4	29060.6	15.3	32.23	59.14	52.54	19.15	305062.3
2018/05/03.05:00:00	1247.0	0.343686	0.927089	0.003412	-0.743457	-0.680659	0.000030	0.344592	0.927409	0.003509	14791.5	29034.1	14.4	32.28	59.19	53.58	19.34	305341.0
2018/05/04.05:00:00	1248.0	0.325745	0.931836	0.001504	-0.732019	-0.693314	0.000031	0.326596	0.932145	0.001595	14767.3	29008.0	13.6	32.33	59.24	54.64	19.52	305620.1
2018/05/05.05:00:00	1249.0	0.307701	0.936297	-0.000405	-0.720369	-0.705769	0.000032	0.308501	0.936595	-0.000319	14743.8	28982.3	12.8	32.38	59.29	55.69	19.69	305899.6
2018/05/06.05:00:00	1250.0	0.289561	0.940468	-0.002314	-0.708511	-0.718022	0.000033	0.290310	0.940756	-0.002233	14721.0	28956.9	12.1	32.42	59.33	56.75	19.86	306179.5
2018/05/07.05:00:00	1251.0	0.271329	0.944348	-0.004222	-0.696448	-0.730070	0.000034	0.272029	0.944625	-0.004147	14698.9	28932.0	11.3	32.47	59.38	57.82	20.02	306459.9
2018/05/08.05:00:00	1252.0	0.253011	0.947934	-0.006129	-0.684184	-0.741908	0.000035	0.253663	0.948200	-0.006059	14677.6	28907.4	10.6	32.51	59.42	58.89	20.18	306740.6
2018/05/09.05:00:00	1253.0	0.234611	0.951223	-0.008035	-0.671722	-0.753534	0.000036	0.235218	0.951478	-0.007969	14657.0	28883.2	9.9	32.55	59.46	59.96	20.33	307021.6
2018/05/10.05:00:00	1254.0	0.216136	0.954213	-0.009938	-0.659065	-0.764944	0.000037	0.216699	0.954457	-0.009877	14637.2	28859.5	9.2	32.59	59.50	61.04	20.47	307303.0
2018/05/11.05:00:00	1255.0	0.197592	0.956901	-0.011838	-0.646217	-0.776135	0.000038	0.198111	0.957135	-0.011782	14618.1	28836.2	8.6	32.63	59.54	62.12	20.61	307584.8
2018/05/12.05:00:00	1256.0	0.178982	0.959287	-0.013734	-0.633182	-0.787102	0.000038	0.179461	0.959510	-0.013683	14599.8	28813.3	7.9	32.67	59.58	63.20	20.74	307866.9
2018/05/13.05:00:00	1257.0	0.160314	0.961367	-0.015627	-0.619964	-0.797844	0.000039	0.160754	0.961579	-0.015579	14582.3	28790.9	7.3	32.71	59.61	64.29	20.86	308149.3
2018/05/14.05:00:00	1258.0	0.141593	0.963140	-0.017514	-0.606566	-0.808356	0.000040	0.141995	0.963342	-0.017471	14565.6	28768.9	6.8	32.74	59.65	65.38	20.98	308432.0
2018/05/15.05:00:00	1259.0	0.122825	0.964605	-0.019396	-0.592993	-0.818635	0.000040	0.123191	0.964796	-0.019357	14549.7	28747.4	6.2	32.77	59.68	66.47	21.09	308715.1
2018/05/16.05:00:00	1260.0	0.104016	0.965759	-0.021272	-0.579248	-0.828678	0.000040	0.104348	0.965940	-0.021237	14534.6	28726.3	5.7	32.81	59.71	67.56	21.19	308998.4
2018/05/17.05:00:00	1261.0	0.085171	0.966602	-0.023142	-0.565338	-0.838483	0.000040	0.085471	0.966772	-0.023110	14520.3	28705.8	5.2	32.84	59.74	68.66	21.29	309282.0
2018/05/18.05:00:00	1262.0	0.066297	0.967132	-0.025004	-0.551265	-0.848046	0.000040	0.066566	0.967292	-0.024975	14506.9	28685.7	4.7	32.87	59.76	69.77	21.38	309565.8
2018/05/19.05:00:00	1263.0	0.047400	0.967348	-0.026858	-0.537034	-0.857364	0.000040	0.047639	0.967498	-0.026833	14494.2	28666.1	4.3	32.89	59.79	70.87	21.46	309849.9
2018/05/20.05:00:00	1264.0	0.028485	0.967249	-0.028704	-0.522651	-0.866436	0.000039	0.028697	0.967390	-0.028682	14482.5	28647.0	3.8	32.92	59.81	71.98	21.54	310134.2
2018/05/21.05:00:00	1265.0	0.009560	0.966835	-0.030540	-0.508120	-0.875258	0.000039	0.009746	0.966966	-0.030521	14471.6	28628.5	3.4	32.94	59.83	73.08	21.61	310418.7
2018/05/22.05:00:00	1266.0	-0.009371	0.966104	-0.032367	-0.493444	-0.883830	0.000039	-0.009208	0.966227	-0.032350	14461.5	28610.5	3.0	32.97	59.84	74.20	21.67	310703.4
2018/05/23.05:00:00	1267.0	-0.028300	0.965057	-0.034183	-0.478630	-0.892149	0.000038	-0.028160	0.965170	-0.034169	14452.3	28593.1	2.7	32.99	59.86	75.31	21.72	310988.3
2018/05/24.05:00:00	1268.0	-0.047221	0.963693	-0.035988	-0.463680	-0.900213	0.000038	-0.047102	0.963798	-0.035976	14444.0	28576.2	2.4	33.00	59.87	76.42	21.77	311273.4
2018/05/25.05:00:00	1269.0	-0.066129	0.962012	-0.037782	-0.448601	-0.908020	0.000038	-0.066029	0.962108	-0.037772	14436.5	28560.0	2.1	33.02	59.88	77.54	21.81	311558.6
2018/05/26.05:00:00	1270.0	-0.085017	0.960014	-0.039563	-0.433395	-0.915569	0.000038	-0.084934	0.960102	-0.039555	14429.9	28544.4	1.8	33.04	59.89	78.66	21.84	311844.0
2018/05/27.05:00:00	1271.0	-0.103878	0.957699	-0.041332	-0.418067	-0.922858	0.000038	-0.103811	0.957779	-0.041326	14424.3	28529.4	1.6	33.05	59.90	79.78	21.86	312129.5
2018/05/28.05:00:00	1272.0	-0.122707	0.955067	-0.043087	-0.402621	-0.929885	0.000039	-0.122654	0.955141	-0.043082	14419.5	28515.0	1.4	33.06	59.91	80.89	21.88	312415.1
2018/05/29.05:00:00	1273.0	-0.141497	0.952120	-0.044828	-0.387062	-0.936649	0.000039	-0.141456	0.952186	-0.044825	14415.5	28501.3	1.2	33.08	59.92	82.02	21.88	312700.9
2018/05/30.05:00:00	1274.0	-0.160242	0.948857	-0.046554	-0.371394	-0.943148	0.000039	-0.160211	0.948917	-0.046552	14412.5	28488.2	1.0	33.08	59.93	83.14	21.89	312986.7
2018/05/31.05:00:00	1275.0	-0.178935	0.945280	-0.048265	-0.355620	-0.949381	0.000040	-0.178914	0.945334	-0.048264	14410.4	28475.9	0.9	33.09	59.93	84.26	21.88	313272.5
2018/06/01.05:00:00	1276.0	-0.197571	0.941389	-0.049961	-0.339745	-0.955346	0.000041	-0.197557	0.941438	-0.049961	14409.2	28464.2	0.8	33.10	59.94	85.38	21.86	313558.5
2018/06/02.05:00:00	1277.0	-0.216144	0.937186	-0.051640	-0.323774	-0.961041	0.000042	-0.216135	0.937231	-0.051640	14408.9	28453.2	0.7	33.10	59.94	86.50	21.84	313844.4
2018/06/03.05:00:00	1278.0	-0.234646	0.932673	-0.053302	-0.307711	-0.966464	0.000042	-0.234641	0.932713	-0.053303	14409.5	28442.9	0.6	33.10	59.94	87.63	21.81	314130.4
2018/06/04.05:00:00	1279.0	-0.253072	0.927849	-0.054947	-0.291559	-0.971615	0.000043	-0.253069	0.927886	-0.054948	14410.9	28433.3	0.6	33.10	59.94	88.75	21.78	314416.4