<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に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. 数值精度: 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■

: 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: Coodinated 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[万キロメートル] # Re : 探査機と地球との距離. 単位は[万キロメートル] # Ra : 探査機と1999JU3との距離. 単位は[万キロメートル] # 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[万キロメートル]

# # # UTC #	L+ [day]	 X [au]	Spacecraf Y [au]	t Z [au]	 X [au]	 - Earth Y [au]	 Z [au]	 X [au]	1999JU3 Y [au]	 Z [au]	Rs [10^4km]	Re [10^4km]	Ra [10^4km]	Vs [km/s]	Ve [km/s]	alpha [deg]	delta [deg]	Dflt [10^4km]
	- .										12		14					
2014/12/03.05:00:00 2014/12/04.05:00:00	0. 0 1 0	0. 325037 0. 309534		-0. 000010 -0. 002231	0. 323234			-0. 805848 - -0. 796246 -			14746. 2 14771. 8	3. 0 42. 7	33736. 3 33778. 4	23. 54 30. 20	6. 92 4. 78	-175. 83 69. 75	4. 86 -28. 92	0. 0 257. 1
2014/12/05.05:00:00	2.0	0.309334	0.937004		0.300008			-0 786536 -			14771.0	83. 5	33816.6	30. 20	4. 68	70. 98	-29. 05	517. 8
2014/12/06.05:00:00	3. 0	0. 277564	0. 950806		0. 275259			-0. 776723 -			14817. 9	123. 7	33853. 9	30. 10	4. 64	71. 41	-29.08	778. 0
2014/12/07.05:00:00	2.5	0. 261440		-0. 008523	0. 258425			-0. 766806 -			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. 010594				-0. 756788 -			14863.3	203. 7	33925. 9	30.01	4. 61	71. 76	-29.06	1297. 3
2014/12/09.05:00:00 2014/12/10.05:00:00	6. 0 7. 0	0. 228956 0. 212606		-0. 012658 -0. 014716	0. 224523 0. 207464			-0. 746672 - -0. 736458 -		-0. 037865 -0. 036550	14886. 0 14908. 6	243. 5 283. 3	33960. 8 33994. 9	29. 96 29. 92	4. 61 4. 60	71. 85 71. 91	-29. 04 -29. 00	1556. 4 1815. 1
2014/12/11.05:00:00	8.0	0.212000	0.978469		0.207404			-0. 726149 -			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	0.010707	0. 173156			-0.715746 -			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. 155918			-0. 705251 -		-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. 022880	0. 138629			-0.694667 -		-0. 031242	14998. 7	442. 2	34124. 0	29. 74	4. 60	72. 05	-28. 74	2845. 9
2014/12/15.05:00:00 2014/12/16.05:00:00	12. 0 13. 0	0. 129999 0. 113343		-0. 024903 -0. 026919	0. 121296 0. 103924			-0.683994 - -0.673234 -			15021. 1 15043. 5	482. 0 521. 7	34154. 4 34184. 0	29. 69 29. 65	4. 60 4. 60	72. 07 72. 09	-28. 65 -28. 55	3102. 7 3359. 0
2014/12/17. 05:00:00	14. 0	0. 113343		-0.020919	0. 103924			-0.662390 -			15045. 8	561. 5	34212. 9	29. 61	4.60	72. 09	-28. 44	3615.0
2014/12/18. 05:00:00	15. 0	0. 079935		-0. 030923	0.069084			-0.651463 -			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		-0.032912	0.051628			-0.640455 -			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		-0. 034891	0. 034154			-0.629367 -			15132. 3	680. 9	34294. 9	29. 47	4. 62	72. 20	-28.06	4380.7
2014/12/21.05:00:00 2014/12/22.05:00:00	18. 0 19. 0	0. 029662 0 012880	1.011000	-0. 036860 -0. 038817	0. 016668 -0. 000822			-0.618202 - -0.606960 -		-0. 021807 -0. 020447	15154. 4 15176. 3	720. 8 760. 7	34320. 7 34345. 7	29. 43 29. 39	4. 62 4. 63	72. 23 72. 27	-27. 92 -27. 77	4635. 1 4889. 2
2014/12/23.05:00:00		-0. 003905	1. 015031		-0. 018313			-0. 595645 -			15170.3	800. 7	34369. 9	29. 35	4. 64	72. 31	-27. 61	5143. 0

はやぶさ2_小惑星遷移軌道計画情報<公開用概略計算値>hy2_trj_plan20150430.text 0. 982979 -0. 000035 -0. 584256 -1. 212480 -0. 017720 0. 982131 -0. 000034 -0. 572797 -1. 220058 -0. 016353 0. 980976 -0. 000034 -0. 561269 -1. 227488 -0. 014984 0. 979515 -0. 000033 -0. 549673 -1. 234771 -0. 013613 29. 30 29. 26 29. 22 29. 18 72. 37 72. 42 72. 49 72. 56 -27. 44 -27. 26 2014/12/24.05:00:00 21.0 -0.020689 016287 -0.042699 -0.035797 15220.0 34393.3 840. 7 2014/12/25.05:00:00 4.65 22. 0 -0. 037468 017175 -0.044621 -0.05326915241.7 880.7 34415.9 5649.3 2014/12/26.05:00:00 2014/12/27.05:00:00 5901.9 -0.070724 920.8 34437.8 4.65 -27.0823. 0 -0. 054236 017779 -0.046531 15263. 2 24.0 -0.070989 018100 -0.048428 -0.088155 15284. 7 960.9 34458.8 4.66 -26.89 6154.2 2014/12/28.05:00:00 25. 0 -0. 087722 018137 -0.050311 -0.105556 0. 977749 -0. 000033 -0. 538011 . 241905 -0. 012240 15306. 1001.0 34479.0 29.14 4.66 72.64 -26. 70 6406. 2014/12/29.05:00:00 26.0 -0.104431 017894 -0.052180 -0.122923 0. 975678 -0. 000032 -0. 526285 . 248892 -0. 010867 . 255729 -0. 009492 15327.3 1041.1 34498.4 29.09 4.67 72.73 -26.50 6657.7 017370 -0.054034 -0.140250 0.973305 - 0.000031 - 0.51449634517.0 29.05 72.82 -26. 29 2014/12/30.05:00:00 27. 0 -0. 121112 15348.4 1081.3 4.67 6908.9 016567 -0.055874 -0.157532 2014/12/31.05:00:00 28. 0 -0. 137759 0. 970629 -0. 000030 -0. 502647 262419 -0.008115 15369.4 1121.5 34534.8 29.0 4.68 72.92 -26.08 7159.7 0. 967652 -0. 000030 -0. 490738 0. 964375 -0. 000029 -0. 478772 2015/01/01.05:00:00 29.0 -0.154369 015487 -0.057698 -0.174764 . 268959 -0. 006738 15390.2 34551.7 28.97 4.69 73.03 -25.87 7410.2 1161.7 -25. 65 -25. 43 . 275350 -0. 005360 2015/01/02.05:00:00 30.0 -0.170937 014131 -0.059507 -0.191940 15410.9 1201.9 34567.8 28.93 4.69 73.14 7660.4 2015/01/03.05:00:00 31.0 -0.187459 012500 -0.061299 -0.209056 0. 960800 -0. 000028 -0. 466749 . 281592 -0. 003981 15431.5 1242. 34583. 2 28.89 4.70 73.26 7910.2 4.70 2015/01/04.05:00:00 32.0 -0.203869 010612 -0.063101 -0.226107 0. 956927 -0. 000028 -0. 454672 . 287685 -0. 002602 15452.0 1283.0 34598.0 28.85 73.35 -25.208158.7 2015/01/05.05:00:00 33.0 -0.220284 008437 -0.064861 -0.243087 0. 952758 -0. 000028 -0. 442543 293628 -0.00122315472.2 1323.2 34611.6 28.81 4.71 73.48 -24.97 8407.8 2015/01/06.05:00:00 34.0 -0.236640 005993 -0.066603 -0.259992 0. 948294 -0. 000028 -0. 430362 . 299421 0.000157 15492.3 1363.4 34624.5 28.77 4.72 73.61 -24. 73 8656.6 2015/01/07.05:00:00 35.0 -0.252933 003280 -0.068327 -0.276817 0. 943536 -0. 000028 -0. 418131 . 305064 0.001536 15512.2 1403.7 34636.4 28.74 4.73 73.76 -24.498905.0 2015/01/08.05:00:00 000301 -0.070033 -0.293556 0. 938486 -0. 000028 -0. 405852 . 310557 1444.0 34647.6 28.70 4.73 73.91 -24. 25 36.0 -0.269159 0.002916 15531.9 9153.2 . 315900 74.06 2015/01/09.05:00:00 37. 0 -0. 285313 997058 -0.071720 -0.310205 0. 933145 -0. 000028 -0. 393527 0.004295 15551.5 1484.3 34657.9 28.66 4.74 -24.009400.9 2015/01/10.05:00:00 38. 0 -0. 301393 993552 -0.073388 -0.326759 0. 927513 -0. 000028 -0. 381157 -1 . 321093 15570.9 1524.6 34667.3 28.62 4.75 74.22 -23. 75 9648.4 0.005673 9895.5 2015/01/11.05:00:00 989785 -0.075038 -0.343213 0. 921594 -0. 000028 -0. 368743 . 326135 4.77 -23.49 39. 0 -0. 317393 0.007051 15590. 1564. 9 34675.9 28.59 74.39 2015/01/12.05:00:00 40.0 -0.333311 985759 -0.076667 -0.359562 0. 915388 -0. 000029 -0. 356288 -1.3310270.008428 15609. 1605.3 34683.7 28.55 4.78 74.56 -23. 23 10142.4 41.0 -0.349142 2015/01/13.05:00:00 0. 981476 -0. 078276 -0. 375800 0. 908897 -0. 000029 -0. 343792 -1.3357690.009804 15628.0 1645.6 34690.6 28.51 4.79 74.74 -22.9610388.9 2015/01/14.05:00:00 42.0 -0.364882 0. 976939 -0. 079865 -0. 391923 0. 902123 -0. 000029 -0. 331258 -1.3403590.011179 15646.6 1686.0 34696.7 28.48 4.80 74.93 -22.7010635.1 0. 972149 -0. 081434 -0. 407925 0.895067 -0.000030 -0.318686 -1.34479975. 12 75. 32 -22. 43 2015/01/15.05:00:00 43.0 -0.380528 0.012553 15665.0 1726.5 34701.9 28.44 4.82 10881.0 2015/01/16.05:00:00 0. 967108 -0. 082981 -0. 423801 0.887732 -0.000030 -0.306079 -1.34908928.41 4.83 -22.1544. 0 -0. 396075 0.013925 15683.3 1766.9 34706. 2 11126.6 0. 961819 -0. 084507 -0. 439547 0.880120 -0.000030 -0.293437 -1.353227 34709.8 28. 38 75. 52 11371. 9 2015/01/17.05:00:00 45.0 -0.411521 0.015296 15701.3 1807.4 4.85 -21.870. 956284 -0. 086011 -0. 455157 0.872232 -0.000030 -0.280763 2015/01/18.05:00:00 46.0 -0.426862 -1.3572150.016665 15719. 1847.9 34712.4 28.34 4.87 75.74 -21.5911616.9 2015/01/19.05:00:00 47.0 -0.442094 0. 950505 -0. 087493 -0. 470625 0.864072 -0.000030 -0.268057 -1.3610520.018033 15736. 1888.4 34714.2 28.31 4.88 75.96 -21.3111861.6 0. 944484 -0. 088953 -0. 485947 0.855641 -0.000029 -0.255322 2015/01/20.05:00:00 48.0 -0.457214 -1.3647380.019398 15754. 1928.9 34715.1 28.28 4.90 76.19 -21.0212106. 2015/01/21.05:00:00 49.0 -0.472217 0. 938224 -0. 090390 -0. 501117 0.846943 -0.000029 -0.242558 -1.3682730.020761 15771.2 1969.5 34715.2 28. 24 4.92 76.43 -20.73 12350.2 2015/01/22.05:00:00 50.0 -0.487102 0. 931727 -0. 091805 -0. 516130 0.837981 -0.000028 -0.229768 -1. 371657 0.022122 34714.4 28.21 4.94 76.67 -20.4415788.1 2010.1 12594.1 0. 924995 -0. 093196 -0. 530982 0. 828757 -0. 000027 -0. 216953 -1. 374891 2015/01/23.05:00:00 51.0 -0.501864 0.023480 15804.8 2050.6 34712.7 28.18 4.95 76.92 -20.1412837.7 0.918031 -0.094564 -0.545667 0.819276 - 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はやぶさ2_小惑星遷移軌道計画情報<公開用概略計算値>hy2_trj_plan20150430.text 27. 32 27. 31 27. 31 27. 30 0. 255266 -0. 000005 0. 325345 -1. 375804 0. 076543 0. 238545 -0. 000005 0. 337921 -1. 372670 0. 077670 2015/03/06.05:00:00 93.0 -0.973185 0. 466527 -0. 128057 -0. 958521 16258.3 33857.5 22877.0 3702. 2 0. 337921 -1. 372670 0. 350461 -1. 369392 0. 362965 -1. 365972 23113. 33818.5 50 2015/03/07.05:00:00 94. 0 -0. 980138 0. 452366 -0. 128278 -0. 963083 16262.6 3738.9 6.09 93.95 -7. 24 0. 438101 -0. 128469 -0. 967354 0. 423735 -0. 128631 -0. 971334 0. 409274 -0. 128765 -0. 975021 0. 221751 -0. 000005 0. 204891 -0. 000005 2015/03/08.05:00:00 95.0 -0.986865 3775.4 33778.8 6.13 94.47 0.078790 16266.6 23349.0 33738. 1 96.0 -0.993365 2015/03/09.05:00:00 0.079902 16270.2 3811.8 6.16 95.00 -6.9823584.9 2015/03/10.05:00:00 97. 0 -0. 999635 0.187967 -0.000005 0. 375432 362409 0.081005 16273.6 3847.9 33696.6 27.29 6.20 95.53 -6. 72 23820. . 394718 -0. 128869 -0. 978415 . 380073 -0. 128945 -0. 981515 27. 28 27. 28 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はやぶさ2_小惑星遷移軌道計画情報<公開用概略計算値>hy2_trj_plan20150430.text 1. 062530 -0. 811164 0. 130276 1. 069203 -0. 799015 0. 130533 1. 075745 -0. 786767 0. 130775 1. 082154 -0. 774423 0. 131000 2015/05/17.05:00:00 165. 0 -0. 856219 -0. 608046 -0. 072918 -0. 568587 -0. 836231 0.000031 15748.0 5599.9 29024. 140.35 8.58 65 28. 28 28. 32 28. 35 28931. 141.10 70 2015/05/18.05:00:00 166. 0 -0. 845868 -0. 620560 -0. 071264 -0. 554553 -0. 845854 0.000032 15730.3 5611.5 8.61 40243.3 167. 0 -0. 835301 -0. 632916 -0. 069591 15712.4 28837.5 2015/05/19.05:00:00 -0. 540360 -0. 855234 0.000033 5622.6 8.64 141.85 75 79 40487.8 168. 0 -0. 824521 -0. 645111 -0. 067901 -0. 526012 -0. 864367 28743. 4 2015/05/20.05:00:00 0.000033 15694.3 5633.2 8.66 142.60 40732.6 2015/05/21.05:00:00 169. 0 -0. 813529 -0. 657140 -0. 066193 -0. 511513 -0. 873252 0.000033 088429 -0.761983 0.131209 15676.0 5643.3 28648. 28.39 8.69 143.36 83 40977.7 170. 0 -0. 802329 -0. 669000 -0. 064468 -0. 496869 -0. 881887 171. 0 -0. 790921 -0. 680688 -0. 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はやぶさ2_小惑星遷移軌道計画情報<公開用概略計算値>hy2_trj_plan20150430.text 32. 54 32. 58 32. 61 32. 65 -155. 76 -155. 50 -155. 23 2015/12/19.05:00:00 381. 0 0. 035962 0. 959522 -0. 029992 0.055993 0. 982342 -0. 000035 -0. 962692 0. 368607 -0. 106123 14371 3 17396.4 -59.00 98203.0 638. 4. 62 0. 983097 -0. 000035 -0. 971265 0. 983548 -0. 000034 -0. 979582 0. 983693 -0. 000033 -0. 987642 0. 352858 -0. 106449 4.62 2015/12/20.05:00:00 382.0 0.017260 0. 958760 -0. 031801 0.038530 14353.1 678.0 17380.9 -58. 95 98484.3 0. 337016 -0. 106747 0. 321086 -0. 107017 -58. 90 98765.9 2015/12/21.05:00:00 0. 957677 -0. 033600 14335.5 717.8 17364.4 383.0 -0.001447 0.021057 4. 62 0. 956273 -0. 035386 384.0 -0.020154 0.003579 2015/12/22.05:00:00 14318.6 757.6 17347. 4.62 -154.94-58.85 99047.8 0. 983534 -0. 000033 -0. 995446 385.0 -0.038854 2015/12/23.05:00:00 954546 -0.037161 -0.013900 0. 305072 -0. 107259 14302.4 797.4 17328.8 32.68 4.61 -154.64-58.80 99330.0 . 952495 -0. 038923 -0. 031373 . 950122 -0. 040671 -0. 048835 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136304.9 4.98

はやぶさ2_小惑星遷移軌道計画情報<公開用概略計算値>hy2_trj_plan20150430.text 2016/05/11.05:00:00 525. 0 -0. 724469 -0. 928868 -0. 038611 -0. 639530 -0. 781843 0.000034 -0.215330 -1.375210 0.023673 17631.9 10171.8 -32.65 136535.7 2605. 26.68 -125. 40 -31. 94 136766. 0 -31. 23 136995. 8 -30. 52 137225. 1 -126. 03 -126. 64 -127. 24 526. 0 -0. 713915 -0. 939985 -0. 037196 -0. 626396 -0. 792685 0.000034 -0.202488 -1.378274 26.63 2016/05/12.05:00:00 0.025029 17666.7 2623.0 10118.9 5. 16 0. 000034 -0. 189623 0. 000034 -0. 176737 2016/05/13.05:00:00 527. 0 -0. 703234 -0. 950933 -0. 035774 -0. 613083 -0. 803299 . 381187 0.026382 26.57 5. 26 5. 35 17701.2 2642.6 10066.3 528. 0 -0. 692427 -0. 961711 -0. 034346 -0. 599596 -0. 813680 383949 2016/05/14.05:00:00 0.027732 17735.5 2664.0 10013.8 26.51 529. 0 -0. 681499 -0. 972317 -0. 032912 -0. 585938 -0. 823828 2016/05/15.05:00:00 0.000034 -0.163832 386561 0.029078 17769.6 2687.2 9961.7 26.46 5. 44 -127.81-29.81 137454.0 2016/05/16.05:00:00 530.0 -0.670451 -0.982750 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2016/07/22.05:00:00	597. 0 0. 216726 -1. 269431	0.064976 0.50			0.683401 -1.219971	乳間/バタ2_に、 0.106507	19289. 7	7244. 0	7047. 9	24. 10	11. 81 -126. 87	-11. 19 152162. 7
2016/07/23.05:00:00	598.0 0.230453 -1.267551				0. 694342 -1. 212692	0. 100307	19298. 6	7334. 0		24. 09	11. 90 -126. 48	-11. 23 152370. 9
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2016/08/02.05:00:00	608. 0 0. 365679 -1. 239232				0. 799427 -1. 132834	0. 115018	19364. 5	8242. 9 8334. 4		23.99	12. 88 -122. 28 12. 98 -121. 84	-11. 75 154447. 2 -11. 82 154654. 4
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はやぶさ2_小惑星遷移軌道計画情報<公開用概略計算値>hy2_trj_plan20150430.text 24. 75 24. 78 24. 82 24. 85 0.987936 1. 200218 -0. 406841 0. 130591 1. 202325 -0. 392290 0. 130323 19. 25 19. 37 2016/10/02.05:00:00 1. 019728 -0. 729947 0.124669 0. 160110 -0. 000013 18853.0 13453.5 -15.46 167188.8 5537. 3 -87.900.177011 -0.000014 13526.2 2016/10/03.05:00:00 670.0 . 026770 -0. 717499 0.124926 0. 984755 18831.9 5529. 2 -87. 24 -15.47 167402.7 0. 981281 0. 977517 1. 204258 -0. 377682 1. 206017 -0. 363020 033660 -0.704944 0.130037 13598.3 -15.48 167617.0 2016/10/04.05:00:00 0.125164 -0.00001518810.5 19.48 -86.57671.0 0. 193858 5521.5 0. 210647 -0. 000016 5514.2 2016/10/05.05:00:00 672.0 . 040395 -0. 692285 0.125384 0.129732 18788.7 13669.7 19.60 -85.91-15.49 167831.6 2016/10/06.05:00:00 673.0 046975 -0.6795220.125585 0. 973462 0. 227372 -0. 000016 207601 -0.348304 0.129408 18766.5 13740.5 5507.2 24.88 19.71 -85.24 -15.50 168046.4 24. 92 24. 95 2016/10/07.05:00:00 674 0 053398 -0.666657 0.125767 0.969118 0. 244029 -0. 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はやぶさ2_小惑星遷移軌道計画情報<公開用概略計算値>hy2_trj_plan20150430.text 27. 52 27. 63 27. 73 27. 84 0.147405 2016/12/13.05:00:00 1.053294 0. 322804 0. 091590 0. 973294 -0. 000035 0. 843861 0. 644455 0. 061544 16537.3 16740.0 -8.98 183600.2 741 0 5759.5 28. 47 0. 337506 0. 352135 0. 366687 28. 54 28. 62 2016/12/14.05:00:00 0. 975653 -0. 000035 0.831140 0.656452 0.059910 16497.6 -8.78 183846.5 742.0 045981 0.090371 0.130100 16753.9 5770.9 -34. 16 2016/12/15.05:00:00 2016/12/16.05:00:00 0. 977712 -0. 000035 0. 979469 -0. 000036 -33. 36 -32. 56 743.0 . 038437 0.089133 0. 112755 0.818214 0.668287 0.058261 16766.9 16457.8 5782.4 -8. 57 184093.5 0.679954 28. 69 5793.9 744.0 . 030661 0.087875 0.095374 0.805083 0.056597 16417.9 16778.9 -8.36 184341.0 2016/12/17. 05:00:00 2016/12/18. 05:00:00 2016/12/19. 05:00:00 0.077963 745.0 . 022653 0. 381158 0.086598 0.980923 -0.000036 0.791749 0.691450 0.054920 16378. 16790.1 5805.5 28.76 27.95 -31.76-8.15 184589.2 -30. 95 -30. 15 746.0 1. 014415 0.395545 0.085301 0.0605260. 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はやぶさ2_小惑星遷移軌道計画情報<公開用概略計算値>hy2_trj_plan20150430.text 26. 05 25. 99 25. 94 25. 88 2017/07/17.05:00:00 957. 0 -0. 793829 -0. 930923 -0. 046197 0. 422788 -0. 924230 0. 438097 -0. 917013 0.000039 -0.713103 -1.112639 -0.033517 18315.3 2980.6 33.90 179.42 -2.12 240877.7 18213.7 2017/07/18.05:00:00 0. 000039 -0. 702585 -1. 121921 -0. 032187 33.96 -179.75-2.40 241102.5 958. 0 -0. 784225 -0. 942407 -0. 044874 18353.4 18302.0 2956.3 0. 453284 -0. 909536 0. 468345 -0. 901801 0. 483273 -0. 893809 -178. 92 -178. 09 -2. 68 241326. 8 -2. 96 241550. 7 2017/07/19.05:00:00 959. 0 -0. 774495 -0. 953741 -0. 043543 18391.2 18390.8 2932.0 34.02 34.08 2017/07/20.05:00:00 960. 0 -0. 764642 -0. 964922 -0. 042206 18428.7 18480.2 2907.8 2017/07/21.05:00:00 961. 0 -0. 754668 -0. 975950 -0. 040862 0. 000037 -0. 670502 -1. 148910 -0. 028171 18465.9 18570. 2883.8 25.82 34.14 -177. 27 -3. 24 241774. 0 0. 498066 -0. 885564 0. 512718 -0. 877067 -3. 52 241996. 9 -3. 79 242219. 3 2017/07/22.05:00:00 2017/07/23.05:00:00 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255680.9 2017/09/25.05:00:00 1027. 0 0.051591 002214 0.060328 20154.1 24975.9 1546.1 38.94 -126.03-172017/09/26.05:00:00 1028.0 0. 079075 -1. 344682 0.052904 1.001155 0. 053632 -0. 000009 0. 162484 -1. 403181 0.061555 20166.4 25069.7 1529.6 23.36 39.02 -125. 27 -17.63 255882.7

はやぶさ2_小惑星遷移軌道計画情報<公開用概略計算値>hy2_trj_plan20150430.text 25163. 0 25255. 9 25348. 3 25440. 4 23. 34 23. 33 23. 31 23. 30 2017/09/27.05:00:00 0.092497 -1 344574 0.054210 0.999802 0. 070741 -0. 000010 0. 175393 -1. 401897 0. 062775 20178.4 -17.77 256084.5 1029 0 1513. 2 -124. 50 -17. 77 250084. 5 -17. 89 256286. 1 -18. 02 256487. 6 -18. 14 256688. 9 -18. 26 256890. 1 -18. 38 257091. 2 -18. 49 257292. 2 -123. 74 -122. 97 -122. 21 0. 998154 0. 996214 39. 19 39. 27 39. 36 344304 0.055510 0. 087827 -0. 000010 0. 188283 -1. 400466 2017/09/28.05:00:00 1030.0 0. 105907 0.063989 20189.9 1496.9 0. 104886 -0. 000010 0. 121913 -0. 000011 0. 201153 20201. 0 20211. 7 1480.7 2017/09/29.05:00:00 343872 0.056804 398889 0.065196 1031.0 0. 119305 343279 0. 214003 397166 0.993980 0.066396 2017/09/30.05:00:00 1032.0 0. 132689 0.058090 1464.6 25532. 0 23. 28 23. 27 23. 25 -121. 44 -120. 67 2017/10/01.05:00:00 1033.0 0.146057 342525 0.059369 0.991454 0. 138902 -0. 000011 0. 226830 395297 0.067590 20221.9 1448.6 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