

### Estimated NH 3rd Stage Position

Time (UTC)	x (km)	y (km)	z (km)
1/19/2006	-0.4853	0.8560	0.0000
1/20/2006	-0.5068	0.8436	0.0003
1/21/2006	-0.5280	0.8310	0.0007
1/22/2006	-0.5491	0.8182	0.0011
1/23/2006	-0.5701	0.8051	0.0014
1/24/2006	-0.5908	0.7917	0.0018
1/25/2006	-0.6114	0.7781	0.0022
1/26/2006	-0.6318	0.7643	0.0026
1/27/2006	-0.6520	0.7502	0.0029
1/28/2006	-0.6720	0.7359	0.0033
1/29/2006	-0.6918	0.7214	0.0037
1/30/2006	-0.7114	0.7067	0.0040
1/31/2006	-0.7308	0.6917	0.0044
2/1/2006	-0.7499	0.6766	0.0047
2/2/2006	-0.7689	0.6613	0.0051
2/3/2006	-0.7876	0.6457	0.0055
2/4/2006	-0.8062	0.6300	0.0058
2/5/2006	-0.8244	0.6142	0.0062
2/6/2006	-0.8425	0.5981	0.0065
2/7/2006	-0.8604	0.5819	0.0069
2/8/2006	-0.8780	0.5656	0.0072
2/9/2006	-0.8954	0.5491	0.0076
2/10/2006	-0.9125	0.5324	0.0079
2/11/2006	-0.9295	0.5157	0.0083
2/12/2006	-0.9462	0.4988	0.0086
2/13/2006	-0.9626	0.4817	0.0090
2/14/2006	-0.9789	0.4646	0.0093
2/15/2006	-0.9949	0.4474	0.0096
2/16/2006	-1.0107	0.4300	0.0100
2/17/2006	-1.0263	0.4126	0.0103
2/18/2006	-1.0416	0.3950	0.0106
2/19/2006	-1.0567	0.3774	0.0110
2/20/2006	-1.0716	0.3597	0.0113
2/21/2006	-1.0863	0.3420	0.0116
2/22/2006	-1.1007	0.3241	0.0119
2/23/2006	-1.1150	0.3062	0.0123
2/24/2006	-1.1290	0.2883	0.0126
2/25/2006	-1.1428	0.2703	0.0129
2/26/2006	-1.1565	0.2522	0.0132
2/27/2006	-1.1699	0.2341	0.0135
2/28/2006	-1.1831	0.2159	0.0138
3/1/2006	-1.1961	0.1977	0.0141
3/2/2006	-1.2089	0.1795	0.0144
3/3/2006	-1.2215	0.1613	0.0147

3/4/2006	-1.2339	0.1430	0.0150
3/5/2006	-1.2461	0.1247	0.0153
3/6/2006	-1.2581	0.1064	0.0156
3/7/2006	-1.2700	0.0881	0.0159
3/8/2006	-1.2816	0.0697	0.0162
3/9/2006	-1.2931	0.0514	0.0165
3/10/2006	-1.3044	0.0330	0.0167
3/11/2006	-1.3156	0.0146	0.0170
3/12/2006	-1.3265	-0.0037	0.0173
3/13/2006	-1.3373	-0.0221	0.0176
3/14/2006	-1.3480	-0.0404	0.0179
3/15/2006	-1.3584	-0.0588	0.0181
3/16/2006	-1.3688	-0.0772	0.0184
3/17/2006	-1.3789	-0.0955	0.0187
3/18/2006	-1.3889	-0.1138	0.0189
3/19/2006	-1.3987	-0.1321	0.0192
3/20/2006	-1.4084	-0.1505	0.0195
3/21/2006	-1.4180	-0.1687	0.0197
3/22/2006	-1.4274	-0.1870	0.0200
3/23/2006	-1.4367	-0.2053	0.0202
3/24/2006	-1.4458	-0.2235	0.0205
3/25/2006	-1.4548	-0.2417	0.0207
3/26/2006	-1.4636	-0.2599	0.0210
3/27/2006	-1.4724	-0.2781	0.0212
3/28/2006	-1.4810	-0.2962	0.0215
3/29/2006	-1.4894	-0.3143	0.0217
3/30/2006	-1.4978	-0.3324	0.0220
3/31/2006	-1.5060	-0.3505	0.0222
4/1/2006	-1.5141	-0.3685	0.0225
4/2/2006	-1.5221	-0.3865	0.0227
4/3/2006	-1.5299	-0.4045	0.0229
4/4/2006	-1.5377	-0.4224	0.0232
4/5/2006	-1.5453	-0.4404	0.0234
4/6/2006	-1.5528	-0.4582	0.0236
4/7/2006	-1.5603	-0.4761	0.0239
4/8/2006	-1.5676	-0.4939	0.0241
4/9/2006	-1.5748	-0.5117	0.0243
4/10/2006	-1.5819	-0.5295	0.0245
4/11/2006	-1.5889	-0.5472	0.0248
4/12/2006	-1.5958	-0.5649	0.0250
4/13/2006	-1.6026	-0.5825	0.0252
4/14/2006	-1.6093	-0.6001	0.0254
4/15/2006	-1.6159	-0.6177	0.0256
4/16/2006	-1.6225	-0.6353	0.0259
4/17/2006	-1.6289	-0.6528	0.0261
4/18/2006	-1.6352	-0.6703	0.0263
4/19/2006	-1.6415	-0.6877	0.0265
4/20/2006	-1.6477	-0.7051	0.0267

4/21/2006	-1.6538	-0.7225	0.0269
4/22/2006	-1.6598	-0.7398	0.0271
4/23/2006	-1.6657	-0.7571	0.0273
4/24/2006	-1.6715	-0.7743	0.0275
4/25/2006	-1.6773	-0.7916	0.0277
4/26/2006	-1.6830	-0.8088	0.0279
4/27/2006	-1.6886	-0.8259	0.0281
4/28/2006	-1.6941	-0.8430	0.0283
4/29/2006	-1.6996	-0.8601	0.0285
4/30/2006	-1.7050	-0.8771	0.0287
5/1/2006	-1.7103	-0.8941	0.0289
5/2/2006	-1.7155	-0.9111	0.0291
5/3/2006	-1.7207	-0.9280	0.0293
5/4/2006	-1.7258	-0.9449	0.0295
5/5/2006	-1.7309	-0.9618	0.0297
5/6/2006	-1.7358	-0.9786	0.0299
5/7/2006	-1.7407	-0.9954	0.0301
5/8/2006	-1.7456	-1.0121	0.0303
5/9/2006	-1.7504	-1.0288	0.0305
5/10/2006	-1.7551	-1.0455	0.0306
5/11/2006	-1.7598	-1.0621	0.0308
5/12/2006	-1.7644	-1.0787	0.0310
5/13/2006	-1.7689	-1.0953	0.0312
5/14/2006	-1.7734	-1.1118	0.0314
5/15/2006	-1.7778	-1.1283	0.0315
5/16/2006	-1.7822	-1.1448	0.0317
5/17/2006	-1.7865	-1.1612	0.0319
5/18/2006	-1.7908	-1.1776	0.0321
5/19/2006	-1.7950	-1.1939	0.0323
5/20/2006	-1.7991	-1.2102	0.0324
5/21/2006	-1.8032	-1.2265	0.0326
5/22/2006	-1.8073	-1.2427	0.0328
5/23/2006	-1.8113	-1.2589	0.0330
5/24/2006	-1.8152	-1.2751	0.0331
5/25/2006	-1.8191	-1.2913	0.0333
5/26/2006	-1.8230	-1.3074	0.0335
5/27/2006	-1.8268	-1.3234	0.0336
5/28/2006	-1.8305	-1.3395	0.0338
5/29/2006	-1.8342	-1.3555	0.0340
5/30/2006	-1.8379	-1.3714	0.0341
5/31/2006	-1.8415	-1.3874	0.0343
6/1/2006	-1.8451	-1.4033	0.0345
6/2/2006	-1.8486	-1.4191	0.0346
6/3/2006	-1.8521	-1.4350	0.0348
6/4/2006	-1.8556	-1.4508	0.0350
6/5/2006	-1.8590	-1.4666	0.0351
6/6/2006	-1.8623	-1.4823	0.0353
6/7/2006	-1.8656	-1.4980	0.0354

6/8/2006	-1.8689	-1.5137	0.0356
6/9/2006	-1.8722	-1.5293	0.0358
6/10/2006	-1.8754	-1.5449	0.0359
6/11/2006	-1.8785	-1.5605	0.0361
6/12/2006	-1.8817	-1.5760	0.0362
6/13/2006	-1.8847	-1.5915	0.0364
6/14/2006	-1.8878	-1.6070	0.0365
6/15/2006	-1.8908	-1.6225	0.0367
6/16/2006	-1.8938	-1.6379	0.0368
6/17/2006	-1.8967	-1.6533	0.0370
6/18/2006	-1.8996	-1.6686	0.0372
6/19/2006	-1.9025	-1.6840	0.0373
6/20/2006	-1.9053	-1.6993	0.0375
6/21/2006	-1.9082	-1.7145	0.0376
6/22/2006	-1.9109	-1.7298	0.0378
6/23/2006	-1.9137	-1.7450	0.0379
6/24/2006	-1.9164	-1.7602	0.0380
6/25/2006	-1.9190	-1.7753	0.0382
6/26/2006	-1.9217	-1.7904	0.0383
6/27/2006	-1.9243	-1.8055	0.0385
6/28/2006	-1.9269	-1.8206	0.0386
6/29/2006	-1.9294	-1.8356	0.0388
6/30/2006	-1.9319	-1.8506	0.0389
7/1/2006	-1.9344	-1.8656	0.0391
7/2/2006	-1.9369	-1.8805	0.0392
7/3/2006	-1.9393	-1.8954	0.0394
7/4/2006	-1.9417	-1.9103	0.0395
7/5/2006	-1.9441	-1.9252	0.0396
7/6/2006	-1.9464	-1.9400	0.0398
7/7/2006	-1.9487	-1.9548	0.0399
7/8/2006	-1.9510	-1.9696	0.0401
7/9/2006	-1.9533	-1.9844	0.0402
7/10/2006	-1.9555	-1.9991	0.0403
7/11/2006	-1.9577	-2.0138	0.0405
7/12/2006	-1.9599	-2.0284	0.0406
7/13/2006	-1.9621	-2.0431	0.0407
7/14/2006	-1.9642	-2.0577	0.0409
7/15/2006	-1.9663	-2.0723	0.0410
7/16/2006	-1.9684	-2.0869	0.0412
7/17/2006	-1.9705	-2.1014	0.0413
7/18/2006	-1.9725	-2.1159	0.0414
7/19/2006	-1.9745	-2.1304	0.0416
7/20/2006	-1.9765	-2.1449	0.0417
7/21/2006	-1.9784	-2.1593	0.0418
7/22/2006	-1.9804	-2.1737	0.0420
7/23/2006	-1.9823	-2.1881	0.0421
7/24/2006	-1.9842	-2.2024	0.0422
7/25/2006	-1.9860	-2.2168	0.0424

7/26/2006	-1.9879	-2.2311	0.0425
7/27/2006	-1.9897	-2.2454	0.0426
7/28/2006	-1.9915	-2.2596	0.0427
7/29/2006	-1.9933	-2.2739	0.0429
7/30/2006	-1.9951	-2.2881	0.0430
7/31/2006	-1.9968	-2.3023	0.0431
8/1/2006	-1.9985	-2.3164	0.0433
8/2/2006	-2.0002	-2.3306	0.0434
8/3/2006	-2.0019	-2.3447	0.0435
8/4/2006	-2.0036	-2.3588	0.0436
8/5/2006	-2.0052	-2.3728	0.0438
8/6/2006	-2.0068	-2.3869	0.0439
8/7/2006	-2.0084	-2.4009	0.0440
8/8/2006	-2.0100	-2.4149	0.0441
8/9/2006	-2.0115	-2.4289	0.0443
8/10/2006	-2.0131	-2.4428	0.0444
8/11/2006	-2.0146	-2.4568	0.0445
8/12/2006	-2.0161	-2.4707	0.0446
8/13/2006	-2.0176	-2.4846	0.0448
8/14/2006	-2.0191	-2.4984	0.0449
8/15/2006	-2.0205	-2.5123	0.0450
8/16/2006	-2.0219	-2.5261	0.0451
8/17/2006	-2.0234	-2.5399	0.0452
8/18/2006	-2.0248	-2.5536	0.0454
8/19/2006	-2.0261	-2.5674	0.0455
8/20/2006	-2.0275	-2.5811	0.0456
8/21/2006	-2.0288	-2.5948	0.0457
8/22/2006	-2.0302	-2.6085	0.0458
8/23/2006	-2.0315	-2.6222	0.0460
8/24/2006	-2.0328	-2.6358	0.0461
8/25/2006	-2.0340	-2.6495	0.0462
8/26/2006	-2.0353	-2.6631	0.0463
8/27/2006	-2.0366	-2.6766	0.0464
8/28/2006	-2.0378	-2.6902	0.0465
8/29/2006	-2.0390	-2.7037	0.0467
8/30/2006	-2.0402	-2.7173	0.0468
8/31/2006	-2.0414	-2.7308	0.0469
9/1/2006	-2.0426	-2.7442	0.0470
9/2/2006	-2.0437	-2.7577	0.0471
9/3/2006	-2.0448	-2.7711	0.0472
9/4/2006	-2.0460	-2.7846	0.0474
9/5/2006	-2.0471	-2.7980	0.0475
9/6/2006	-2.0482	-2.8113	0.0476
9/7/2006	-2.0493	-2.8247	0.0477
9/8/2006	-2.0503	-2.8380	0.0478
9/9/2006	-2.0514	-2.8514	0.0479
9/10/2006	-2.0524	-2.8647	0.0480
9/11/2006	-2.0534	-2.8779	0.0481

9/12/2006	-2.0544	-2.8912	0.0483
9/13/2006	-2.0554	-2.9044	0.0484
9/14/2006	-2.0564	-2.9177	0.0485
9/15/2006	-2.0574	-2.9309	0.0486
9/16/2006	-2.0584	-2.9441	0.0487
9/17/2006	-2.0593	-2.9572	0.0488
9/18/2006	-2.0602	-2.9704	0.0489
9/19/2006	-2.0611	-2.9835	0.0490
9/20/2006	-2.0621	-2.9966	0.0491
9/21/2006	-2.0629	-3.0097	0.0492
9/22/2006	-2.0638	-3.0228	0.0494
9/23/2006	-2.0647	-3.0358	0.0495
9/24/2006	-2.0656	-3.0489	0.0496
9/25/2006	-2.0664	-3.0619	0.0497
9/26/2006	-2.0672	-3.0749	0.0498
9/27/2006	-2.0680	-3.0879	0.0499
9/28/2006	-2.0689	-3.1009	0.0500
9/29/2006	-2.0696	-3.1138	0.0501
9/30/2006	-2.0704	-3.1267	0.0502
10/1/2006	-2.0712	-3.1397	0.0503
10/2/2006	-2.0720	-3.1526	0.0504
10/3/2006	-2.0727	-3.1654	0.0505
10/4/2006	-2.0735	-3.1783	0.0506
10/5/2006	-2.0742	-3.1911	0.0507
10/6/2006	-2.0749	-3.2040	0.0508
10/7/2006	-2.0756	-3.2168	0.0510
10/8/2006	-2.0763	-3.2296	0.0511
10/9/2006	-2.0770	-3.2424	0.0512
10/10/2006	-2.0777	-3.2551	0.0513
10/11/2006	-2.0783	-3.2679	0.0514
10/12/2006	-2.0790	-3.2806	0.0515
10/13/2006	-2.0796	-3.2933	0.0516
10/14/2006	-2.0802	-3.3060	0.0517
10/15/2006	-2.0809	-3.3187	0.0518
10/16/2006	-2.0815	-3.3314	0.0519
10/17/2006	-2.0821	-3.3440	0.0520
10/18/2006	-2.0827	-3.3566	0.0521
10/19/2006	-2.0832	-3.3692	0.0522
10/20/2006	-2.0838	-3.3818	0.0523
10/21/2006	-2.0844	-3.3944	0.0524
10/22/2006	-2.0849	-3.4070	0.0525
10/23/2006	-2.0855	-3.4195	0.0526
10/24/2006	-2.0860	-3.4321	0.0527
10/25/2006	-2.0865	-3.4446	0.0528
10/26/2006	-2.0870	-3.4571	0.0529
10/27/2006	-2.0875	-3.4696	0.0530
10/28/2006	-2.0880	-3.4821	0.0531
10/29/2006	-2.0885	-3.4945	0.0532

10/30/2006	-2.0890	-3.5070	0.0533
10/31/2006	-2.0895	-3.5194	0.0534
11/1/2006	-2.0899	-3.5318	0.0535
11/2/2006	-2.0904	-3.5442	0.0536
11/3/2006	-2.0908	-3.5566	0.0537
11/4/2006	-2.0913	-3.5690	0.0538
11/5/2006	-2.0917	-3.5813	0.0539
11/6/2006	-2.0921	-3.5937	0.0540
11/7/2006	-2.0925	-3.6060	0.0541
11/8/2006	-2.0929	-3.6183	0.0542
11/9/2006	-2.0933	-3.6306	0.0543
11/10/2006	-2.0937	-3.6429	0.0544
11/11/2006	-2.0940	-3.6551	0.0545
11/12/2006	-2.0944	-3.6674	0.0546
11/13/2006	-2.0948	-3.6796	0.0546
11/14/2006	-2.0951	-3.6919	0.0547
11/15/2006	-2.0955	-3.7041	0.0548
11/16/2006	-2.0958	-3.7163	0.0549
11/17/2006	-2.0961	-3.7284	0.0550
11/18/2006	-2.0964	-3.7406	0.0551
11/19/2006	-2.0967	-3.7528	0.0552
11/20/2006	-2.0970	-3.7649	0.0553
11/21/2006	-2.0973	-3.7770	0.0554
11/22/2006	-2.0976	-3.7891	0.0555
11/23/2006	-2.0979	-3.8012	0.0556
11/24/2006	-2.0982	-3.8133	0.0557
11/25/2006	-2.0984	-3.8254	0.0558
11/26/2006	-2.0987	-3.8375	0.0559
11/27/2006	-2.0989	-3.8495	0.0560
11/28/2006	-2.0992	-3.8615	0.0561
11/29/2006	-2.0994	-3.8736	0.0562
11/30/2006	-2.0997	-3.8856	0.0562
12/1/2006	-2.0999	-3.8976	0.0563
12/2/2006	-2.1001	-3.9095	0.0564
12/3/2006	-2.1003	-3.9215	0.0565
12/4/2006	-2.1005	-3.9335	0.0566
12/5/2006	-2.1007	-3.9454	0.0567
12/6/2006	-2.1009	-3.9573	0.0568
12/7/2006	-2.1011	-3.9692	0.0569
12/8/2006	-2.1012	-3.9811	0.0570
12/9/2006	-2.1014	-3.9930	0.0571
12/10/2006	-2.1016	-4.0049	0.0572
12/11/2006	-2.1017	-4.0168	0.0572
12/12/2006	-2.1019	-4.0286	0.0573
12/13/2006	-2.1020	-4.0405	0.0574
12/14/2006	-2.1021	-4.0523	0.0575
12/15/2006	-2.1023	-4.0641	0.0576
12/16/2006	-2.1024	-4.0759	0.0577

12/17/2006	-2.1025	-4.0877	0.0578
12/18/2006	-2.1026	-4.0995	0.0579
12/19/2006	-2.1027	-4.1112	0.0580
12/20/2006	-2.1028	-4.1230	0.0581
12/21/2006	-2.1029	-4.1347	0.0581
12/22/2006	-2.1030	-4.1465	0.0582
12/23/2006	-2.1031	-4.1582	0.0583
12/24/2006	-2.1032	-4.1699	0.0584
12/25/2006	-2.1032	-4.1816	0.0585
12/26/2006	-2.1033	-4.1933	0.0586
12/27/2006	-2.1033	-4.2050	0.0587
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9/18/2012	3.8369	-23.3020	0.8080
9/19/2012	3.8398	-23.3098	0.8084
9/20/2012	3.8427	-23.3177	0.8087
9/21/2012	3.8456	-23.3256	0.8090
9/22/2012	3.8485	-23.3334	0.8094
9/23/2012	3.8514	-23.3412	0.8097
9/24/2012	3.8543	-23.3491	0.8100
9/25/2012	3.8572	-23.3569	0.8104
9/26/2012	3.8601	-23.3648	0.8107
9/27/2012	3.8630	-23.3727	0.8110

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9/29/2012	3.8687	-23.3883	0.8117
9/30/2012	3.8716	-23.3962	0.8120
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10/3/2012	3.8803	-23.4197	0.8130
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10/5/2012	3.8861	-23.4354	0.8137
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10/12/2012	3.9063	-23.4903	0.8160
10/13/2012	3.9092	-23.4982	0.8163
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9/7/2013	4.8558	-26.0527	0.9242
9/8/2013	4.8587	-26.0604	0.9245
9/9/2013	4.8615	-26.0681	0.9248
9/10/2013	4.8644	-26.0758	0.9251
9/11/2013	4.8673	-26.0835	0.9255
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9/13/2013	4.8730	-26.0989	0.9261
9/14/2013	4.8758	-26.1066	0.9264
9/15/2013	4.8787	-26.1142	0.9268
9/16/2013	4.8816	-26.1219	0.9271
9/17/2013	4.8845	-26.1296	0.9274
9/18/2013	4.8873	-26.1373	0.9277
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9/29/2013	4.9188	-26.2218	0.9313
9/30/2013	4.9217	-26.2295	0.9316
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8/28/2014	5.8680	-28.7600	1.0388
8/29/2014	5.8709	-28.7676	1.0391
8/30/2014	5.8737	-28.7752	1.0394
8/31/2014	5.8765	-28.7827	1.0397
9/1/2014	5.8794	-28.7903	1.0401
9/2/2014	5.8822	-28.7978	1.0404
9/3/2014	5.8851	-28.8054	1.0407
9/4/2014	5.8879	-28.8130	1.0410
9/5/2014	5.8907	-28.8205	1.0413
9/6/2014	5.8936	-28.8281	1.0416
9/7/2014	5.8964	-28.8357	1.0420
9/8/2014	5.8992	-28.8432	1.0423
9/9/2014	5.9021	-28.8508	1.0426
9/10/2014	5.9049	-28.8583	1.0429
9/11/2014	5.9078	-28.8659	1.0432
9/12/2014	5.9106	-28.8735	1.0436
9/13/2014	5.9134	-28.8810	1.0439
9/14/2014	5.9163	-28.8886	1.0442
9/15/2014	5.9191	-28.8961	1.0445
9/16/2014	5.9220	-28.9037	1.0449
9/17/2014	5.9248	-28.9112	1.0452

9/18/2014	5.9276	-28.9188	1.0455
9/19/2014	5.9305	-28.9264	1.0458
9/20/2014	5.9333	-28.9339	1.0461
9/21/2014	5.9361	-28.9415	1.0465
9/22/2014	5.9390	-28.9490	1.0468
9/23/2014	5.9418	-28.9566	1.0471
9/24/2014	5.9447	-28.9642	1.0474
9/25/2014	5.9475	-28.9717	1.0477
9/26/2014	5.9503	-28.9793	1.0481
9/27/2014	5.9532	-28.9868	1.0484
9/28/2014	5.9560	-28.9944	1.0487
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9/30/2014	5.9617	-29.0095	1.0493
10/1/2014	5.9645	-29.0170	1.0497
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10/15/2014	6.0042	-29.1227	1.0541
10/16/2014	6.0071	-29.1303	1.0545
10/17/2014	6.0099	-29.1378	1.0548
10/18/2014	6.0128	-29.1454	1.0551
10/19/2014	6.0156	-29.1529	1.0554
10/20/2014	6.0184	-29.1605	1.0557
10/21/2014	6.0212	-29.1680	1.0561
10/22/2014	6.0241	-29.1756	1.0564
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10/24/2014	6.0298	-29.1906	1.0570
10/25/2014	6.0326	-29.1982	1.0573
10/26/2014	6.0354	-29.2058	1.0576
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10/28/2014	6.0411	-29.2208	1.0583
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10/30/2014	6.0468	-29.2359	1.0589
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11/2/2014	6.0553	-29.2586	1.0599
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12/18/2014	6.1856	-29.6052	1.0746
12/19/2014	6.1885	-29.6127	1.0749
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12/24/2014	6.2026	-29.6503	1.0765
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12/27/2014	6.2112	-29.6729	1.0775
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1/26/2015	6.2961	-29.8985	1.0870
1/27/2015	6.2989	-29.9060	1.0874
1/28/2015	6.3017	-29.9136	1.0877
1/29/2015	6.3046	-29.9211	1.0880
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1/31/2015	6.3102	-29.9361	1.0886
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2/3/2015	6.3187	-29.9586	1.0896
2/4/2015	6.3216	-29.9662	1.0899
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2/6/2015	6.3272	-29.9812	1.0905
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2/17/2015	6.3583	-30.0638	1.0940
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2/21/2015	6.3696	-30.0939	1.0953
2/22/2015	6.3725	-30.1014	1.0956
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3/1/2015	6.3923	-30.1539	1.0979
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3/9/2015	6.4149	-30.2140	1.1004
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3/13/2015	6.4262	-30.2440	1.1017
3/14/2015	6.4290	-30.2515	1.1020
3/15/2015	6.4319	-30.2590	1.1023
3/16/2015	6.4347	-30.2665	1.1026
3/17/2015	6.4375	-30.2740	1.1029
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3/24/2015	6.4573	-30.3265	1.1052
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3/31/2015	6.4771	-30.3790	1.1074
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4/3/2015	6.4856	-30.4015	1.1083
4/4/2015	6.4884	-30.4090	1.1086
4/5/2015	6.4912	-30.4165	1.1090
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4/7/2015	6.4969	-30.4314	1.1096
4/8/2015	6.4997	-30.4389	1.1099
4/9/2015	6.5026	-30.4464	1.1102
4/10/2015	6.5054	-30.4539	1.1106
4/11/2015	6.5082	-30.4614	1.1109
4/12/2015	6.5110	-30.4689	1.1112
4/13/2015	6.5138	-30.4764	1.1115
4/14/2015	6.5167	-30.4839	1.1118
4/15/2015	6.5195	-30.4914	1.1121
4/16/2015	6.5223	-30.4989	1.1125
4/17/2015	6.5252	-30.5064	1.1128
4/18/2015	6.5280	-30.5139	1.1131
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4/27/2015	6.5534	-30.5813	1.1160
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5/5/2015	6.5760	-30.6412	1.1185
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5/11/2015	6.5930	-30.6861	1.1204
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5/27/2015	6.6381	-30.8058	1.1255
5/28/2015	6.6410	-30.8133	1.1258
5/29/2015	6.6438	-30.8208	1.1261
5/30/2015	6.6466	-30.8283	1.1264
5/31/2015	6.6495	-30.8358	1.1267
6/1/2015	6.6523	-30.8432	1.1271
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6/3/2015	6.6579	-30.8582	1.1277
6/4/2015	6.6607	-30.8657	1.1280
6/5/2015	6.6636	-30.8731	1.1283
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6/15/2015	6.6918	-30.9479	1.1315
6/16/2015	6.6946	-30.9554	1.1318
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6/19/2015	6.7031	-30.9778	1.1328
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6/22/2015	6.7115	-31.0002	1.1338
6/23/2015	6.7144	-31.0077	1.1341
6/24/2015	6.7172	-31.0152	1.1344
6/25/2015	6.7200	-31.0226	1.1347
6/26/2015	6.7228	-31.0301	1.1350
6/27/2015	6.7256	-31.0376	1.1353
6/28/2015	6.7285	-31.0451	1.1357
6/29/2015	6.7313	-31.0525	1.1360
6/30/2015	6.7341	-31.0600	1.1363
7/1/2015	6.7370	-31.0675	1.1366
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7/4/2015	6.7454	-31.0899	1.1376
7/5/2015	6.7482	-31.0974	1.1379
7/6/2015	6.7511	-31.1048	1.1382
7/7/2015	6.7539	-31.1123	1.1385
7/8/2015	6.7567	-31.1198	1.1388
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7/10/2015	6.7623	-31.1347	1.1395
7/11/2015	6.7651	-31.1422	1.1398
7/12/2015	6.7680	-31.1496	1.1401
7/13/2015	6.7708	-31.1571	1.1404
7/14/2015	6.7736	-31.1646	1.1407
7/15/2015	6.7764	-31.1720	1.1410
7/16/2015	6.7793	-31.1795	1.1413
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7/18/2015	6.7849	-31.1944	1.1419
7/19/2015	6.7878	-31.2019	1.1422
7/20/2015	6.7906	-31.2094	1.1425
7/21/2015	6.7934	-31.2168	1.1428
7/22/2015	6.7962	-31.2243	1.1432
7/23/2015	6.7990	-31.2318	1.1436
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7/27/2015	6.8100	-31.2611	1.1461
7/28/2015	6.8127	-31.2684	1.1469
7/29/2015	6.8154	-31.2755	1.1480
7/30/2015	6.8181	-31.2826	1.1492
7/31/2015	6.8208	-31.2897	1.1504
8/1/2015	6.8234	-31.2966	1.1519

1AU= 149,597,870.691 km

Heliocentric Distance

(AU)

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0.9846

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0.9865

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0.9896

0.9916

0.9939

0.9966

0.9995

1.0027

1.0062

1.0101

1.0141

1.0185

1.0232

1.0281

1.0333

1.0387

1.0444

1.0504

1.0565

1.0630

1.0696

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1.0836

1.0909

1.0984

1.1061

1.1140

1.1222

1.1304

1.1389

1.1475

1.1563

1.1653

1.1744

1.1837

1.1931

1.2027

1.2124

1.2222

1.2322

1.2422  
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