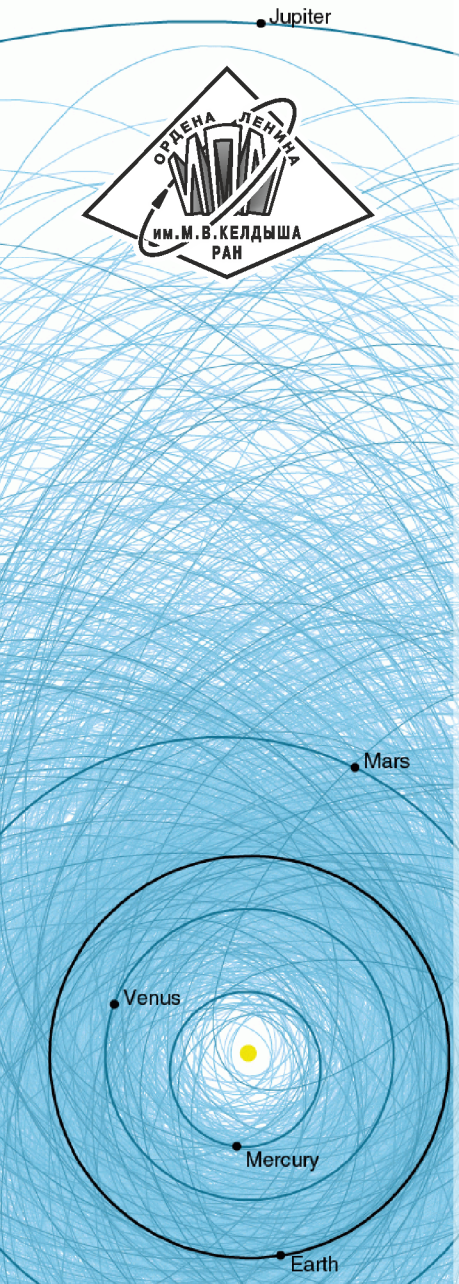
ОРДЕНА ЛЕНИНА
ИНСТИТУТ ПРИКЛАДНОЙ МАТЕМАТИКИ
ИМЕНИ М.В. КЕЛДЫША
РОССИЙСКОЙ АКАДЕМИИ НАУК

Бюллетень № 14-5 (2)

5-я лунация 2014 г.
12.04.14 – 08.05.14



АСТЕРОИДНО-КОМЕТНАЯ ОПАСНОСТЬ

Москва – 2014

Астероидно-кометная опасность

Asteroid-Comet Hazard

Издается с 2014 года

В бюллетене публикуются и анализируются данные по лунациям об астероидно-кометной опасности в околоземном космическом пространстве.

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БЮЛЛЕТЕНЬ № 14-5 (2)

АСТЕРОИДНО-КОМЕТНАЯ ОПАСНОСТЬ

5-я лунация 2014 г.

Москва – 2014

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I. ОБЩАЯ СТАТИСТИКА ИЗМЕРЕНИЙ МАЛЫХ ТЕЛ СОЛНЕЧНОЙ СИСТЕМЫ

№	Код MPC	Измерений	Объектов	Открыто	Обсерватория
1.	F51	305352	57675	1352	Pan-STARRS 1, Haleakala
2.	G96	199031	38745	1623	Mt. Lemmon Survey
3.	703	125691	23429	72	Catalina Sky Survey
4.	W84	102800	13922	2867	Cerro Tololo-DECam
5.	691	58500	9428	318	Spacewatch
6.	I41	18257	2366	13	Palomar Mountain--PTF
7.	D29	14729	4745	2	Purple Mountain Observatory
8.	C51	12718	633	11	WISE
9.	J04	8421	2290	52	ESA Optical Ground Station, Tenerife
10.	926	7362	2361	2	Tenagra II Observatory, Nogales
11.	**H15**	**6909**	**1857**	**1**	**ISON-NM Observatory, Mayhill**
12.	J43	3915	699	12	Oukaimeden Observatory, Marrakech
13.	G32	2475	385	49	Elena Remote Observatory
14.	291	1520	377	1	LPL/Spacewatch II
15.	Y00	1420	451	0	SONEAR Observatory, Oliveira
16.	644	1199	219	6	Palomar Mountain/NEAT
17.	H21	1169	173	1	Astronomical Research Observatory
18.	H45	926	54	0	Arkansas Sky Obs.
19.	807	878	198	3	Cerro Tololo Observatory, La Serena
20.	I52	873	216	0	Mt. Lemmon Station
21.	G36	516	92	5	Calar Alto-CASADO
22.	C41	375	122	0	MASTER-II Observatory, Kislovodsk
23.	H01	375	73	0	Magdalena Ridge Observatory, Socorro
24.	E12	374	80	0	Siding Spring Survey
25.	673	372	81	0	Table Mountain Observatory
26.	568	301	87	0	Mauna Kea
27.	645	298	134	0	Apache Point-Sloan Digital Sky Survey
28.	Q62	296	73	1	iTelescope Observatory, Siding Spring
29.	C94	294	84	0	MASTER-II Observatory, Tunka
30.	699	242	59	0	Lowell Observatory-LONEOS
102.	**D00**	**19**	**5**	**0**	**ISON-Ussuriysk Observatory**
153.	**A50**	**5**	**2**	**0**	**Andrushivka Astronomical Observatory**

II. ОБЩАЯ СТАТИСТИКА ПО КОЛИЧЕСТВУ ОТКРЫТЫХ ОБЪЕКТОВ

№	Код MPC	Измерений	Объектов	Открыто	Обсерватория
1.	W84	102800	13922	2867	Cerro Tololo-DECam
2.	G96	199031	38745	1623	Mt. Lemmon Survey
3.	F51	305352	57675	1352	Pan-STARRS 1, Haleakala
4.	691	58500	9428	318	Spacewatch
5.	703	125691	23429	72	Catalina Sky Survey
6.	J04	8421	2290	52	ESA Optical Ground Station, Tenerife
7.	G32	2475	385	49	Elena Remote Observatory
8.	I41	18257	2366	13	Palomar Mountain--PTF
9.	J43	3915	699	12	Oukaimeden Observatory, Marrakech
10.	C51	12718	633	11	WISE
11.	644	1199	219	6	Palomar Mountain/NEAT
12.	G36	516	92	5	Calar Alto-CASADO
13.	B74	205	57	3	Santa Maria de Montmagastrell
14.	807	878	198	3	Cerro Tololo Observatory, La Serena
15.	926	7362	2361	2	Tenagra II Observatory, Nogales
16.	493	26	5	2	Calar Alto
17.	621	144	43	2	Bergisch Gladbach
18.	D29	14729	4745	2	Purple Mountain Observatory
19.	H21	1169	173	1	Astronomical Research Observatory
20.	H36	152	39	1	Sandlot Observatory, Scranton
21.	J75	69	23	1	OAM Observatory, La Sagra
22.	291	1520	377	1	LPL/Spacewatch II
23.	**H15**	**6909**	**1857**	**1**	**ISON-NM Observatory, Mayhill**
24.	G84	35	9	1	Mount Lemmon SkyCenter
25.	Q62	296	73	1	iTelescope Observatory, Siding Spring

III. СТАТИСТИКА ПО ОТКРЫТЫМ АСЗ

	Количество	Потенциально опасные	Атира	Атоны	Аполлонцы	Амуры
Лунация	131	7	0	6	66	59
Всего	**11 074**	**1 483**	**21**	**837**	**5 524**	**4 692**

IV. ТЕСНЫЕ СБЛИЖЕНИЯ АСЗ С ЗЕМЛЕЙ

Обозначение	Дата	Δ, *км*	MOID, а. е.	V_3, *км/с*	m_0	H	D, *м*	E	Δt, *сутки*	Сем-во
2014 HL129	2014-05-03.36807	291 700	0.0018	5.7818	20.6	28.3	5-13	143.6	7.08834	Аполлон
2014 JR24	2014-05-07.44871	106 200	0.0007	3.6718	17.2	29.3	3-8	160.3	1.15541	Аполлон

Δ - расстояние до Земли; MOID - минимальная дистанция пересечения орбит; V_3 - скорость относительно Земли; m_0 - блеск в момент обнаружения; H - абсолютная величина; D - диаметр; E - элонгация; Δt - время упреждения (дата обнаружения относительно даты минимального сближения с Землей)

2014 HL129

```
Эпоха 2014 май 23.0 TT = JDT 2456800.5

M 349.64972              (2000.0)            P                   Q

n   0.68123932     Peri.  220.39721     -0.14259245     +0.98783702          T = 2456815.69331 JDT
a   1.2791935      Node    41.51395     -0.88228224     -0.09845997          q =      0.9633628
e   0.2468983      Incl.    5.36841     -0.44860388     -0.12034808          MOID = 0.0018 a.e.
P   1.45           H   28.3           G   0.15           U   6
```

2014 JR24

```
Эпоха 2014 май 23.0 TT = JDT 2456800.5

M 317.44416              (2000.0)            P                   Q

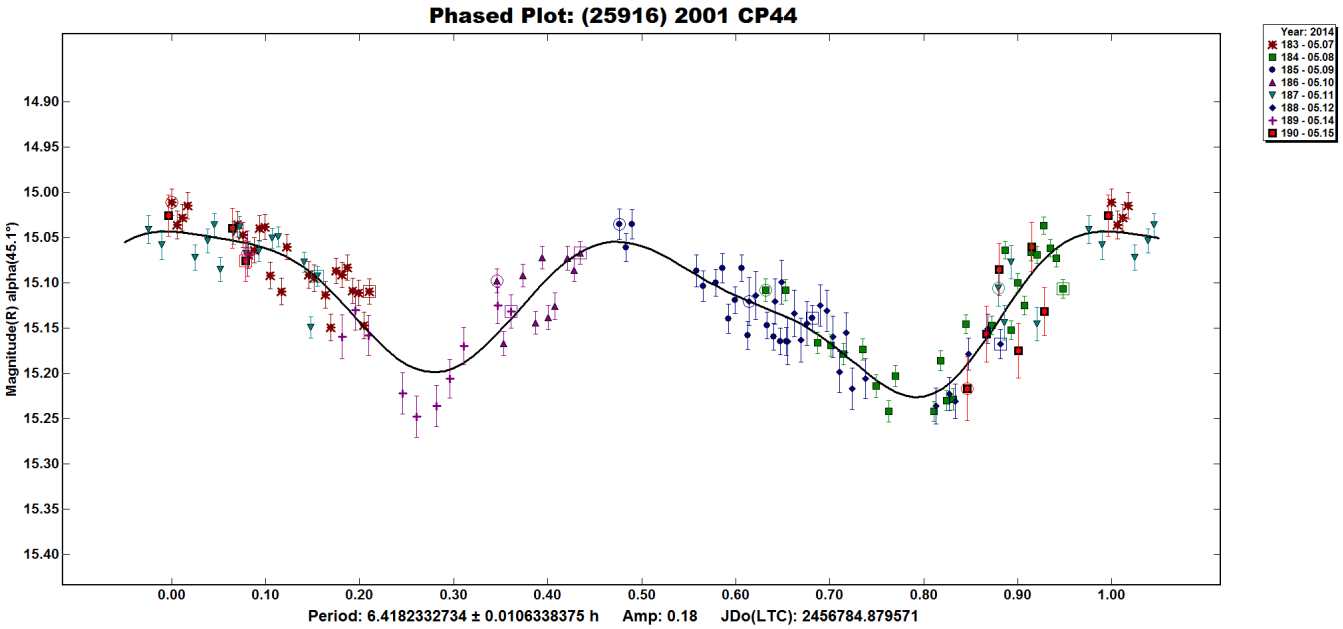
n   0.89381118     Peri.  246.42546     +0.42897292     +0.90323386          T = 2456848.11167 JDT
a   1.0673467      Node    48.98275     -0.82272999     +0.39628047          q =      0.9400956
e   0.1192219      Incl.    0.93267     -0.37295791     +0.16471304          MOID = 0.0007 a.e.
P   1.10           H   29.3           G   0.15           U   4
```

M - средняя аномалия; n - среднее суточное движение (град./сутки); a - большая полуось; e - эксцентриситет; П - период (годы); Peri. - аргумент перигелия; Node - долгота восходящего узла; Incl. - наклонение; H - абсолютная звездная величина; P,Q - вектора экваториальных компонент; G - фазовая зависимость блеска; T - дата перигелия; q - расстояние перигелия; MOID - минимальная дистанция между орбитами астероида и Земли; U - параметр точности определения орбиты

V. ФОТОМЕТРИЯ АСЗ

Обозначение	Дата начала наблюдений	Дата окончания наблюдений	Телескоп	Фильтр	Θ_0, град	Θ_1, град	Δ_0, а.е.	Δ_1, а.е.	P, *ч*	A
2001 CP44	2014-05-07.3831	2014-05-15.43546	Сантел-	R	45.1	46.1	0.733	0.673	6.417	0.18

Θ - фазовый угол в t_0 и t_1; Δ - расстояние до Земли в t_0 и t_1; P - период обращения вокруг своей оси; A - амплитуда



VI. ДАННЫЕ РАДИОЛОКАЦИИ АСЗ

Обозначение	*	Дата начала наблюдений	Дата окончания наблюдений	Обсерватория	D, м	Δ_0, а.е.	Δ_1, а.е.	P, *кВт*
2004 FG11	B	2014-04-15	2014-04-16	Аресибо	150	0.077	0.089	400
2006 SX217		2014-04-19	2014-04-26	Голдстоун	550	0.042	0.039	450
2006 SX217		2014-04-21	2014-04-24	Аресибо	550	0.035	0.032	600
2003 HM		2014-04-24	2014-04-25	Аресибо	135	0.056	0.061	600
2007 TV18		2014-04-18	2014-04-20	Голдстоун	70	0.02	0.025	200
2014 HO132		2014-05-03	2014-05-03	Голдстоун	30	0.012	0.012	400

** - PHA - потенциально опасный объект; B - двойная система; D - диаметр; Δ - расстояние до Земли в t_0 и t_1; P - мощность излучателя*

VII. АСТРОМЕТРИЯ АСЗ

ISON-NM (H15)

```
86819          C2014 04 21.25564 13 54 21.72 +05 39 20.2          18.7 Rq~13UnH15
86819          C2014 04 21.26873 13 54 20.66 +05 39 35.8          18.8 Rq~13UnH15
86819          C2014 04 21.27928 13 54 19.76 +05 39 48.0          18.5 Rq~13UnH15
86819          C2014 04 21.29608 13 54 18.36 +05 40 08.6          18.7 Rq~13UnH15
K5378          C2014 05 03.35119 16 01 42.38 +34 32 51.9          19.3 Rq~14JKH15
K5378          C2014 05 03.36293 16 01 41.61 +34 33 02.1          19.5 Rq~14JKH15
K5378          C2014 05 03.37360 16 01 40.81 +34 33 13.1          19.3 Rq~14JKH15
07025          C2014 05 06.27593 14 58 23.70 +18 46 14.5          18.5 Rq~147SH15
07025          C2014 05 06.28549 14 58 22.70 +18 46 13.3          18.5 Rq~147SH15
07025          C2014 05 06.29880 14 58 21.41 +18 46 11.3          18.4 Rq~147SH15
     K12J11G   C2014 05 07.14711 15 18 48.66 +65 03 34.5          19.9 Rq~143FH15
```

VIII. ОБОБЩЕННЫЕ РЕЗУЛЬТАТЫ

В ходе прошедшей лунации (12.04.14-08.05.14), обсерваториями НСОИ АФН, участвующими в наблюдениях малых тел Солнечной системы, получено 6 933 позиционных измерения и одно временное обозначение для нового астероида. По этим результатам, среди всех наблюдателей, обсерватория ISON-NM заняла 11 и 23 места соответственно. В целом, всеми обсерваториями был открыт 131 астероид сближающийся с Землей (АСЗ), в том числе 7 потенциально опасных. Общее количество известных АСЗ на данный момент - 11 074.

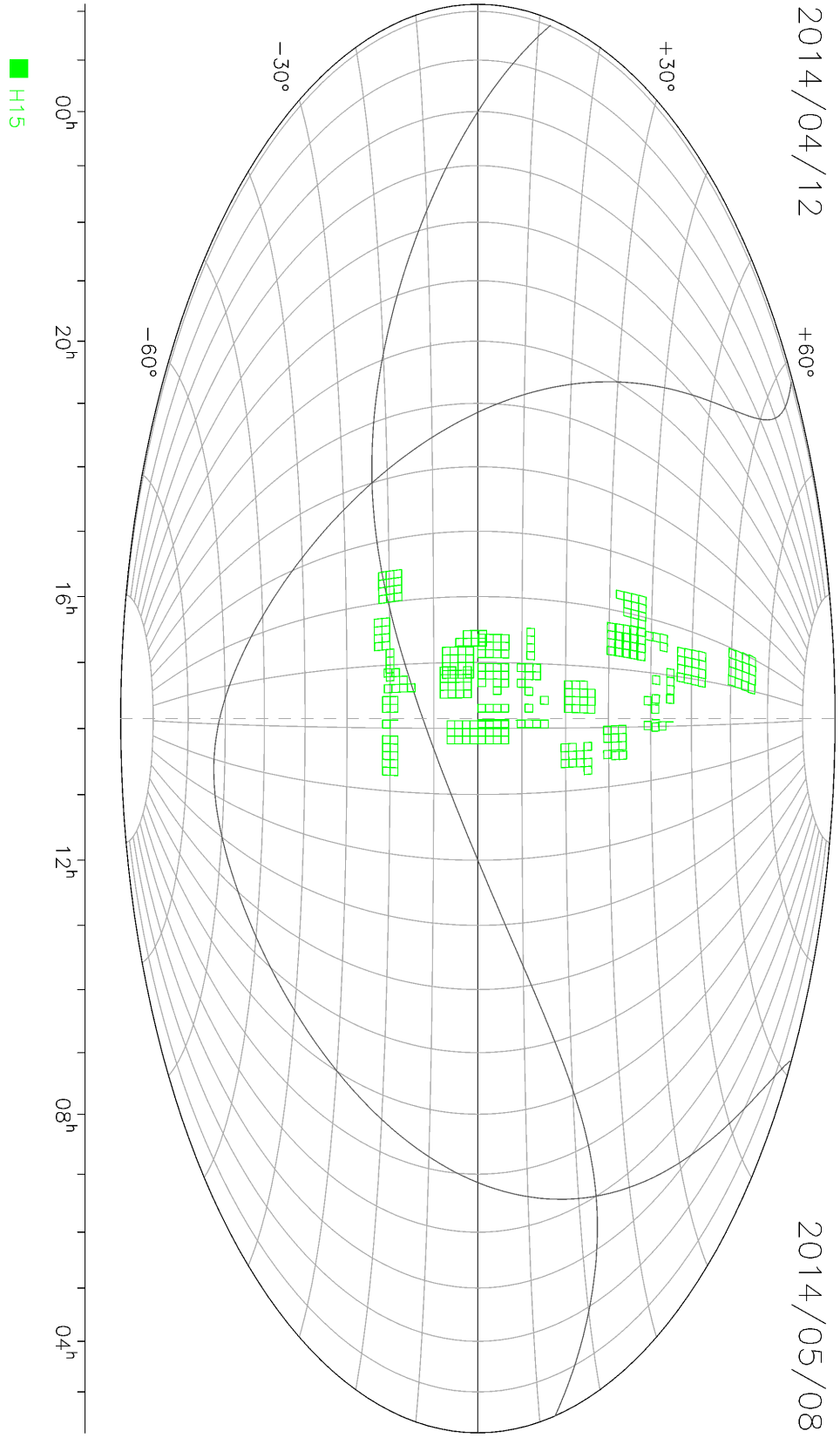
Были зафиксированы 3 тесных сближения (внутри орбиты Луны) астероидов 2014 HL129 (291 700 км), 2014 JR24 (106 200 км) и 2014 JG55 (100 200 км). Все астероиды были обнаружены с упреждением 7.1, 1.2 и 0.5 суток соответственно.

В ходе лунации были проведены сеансы фотометрических наблюдений АСЗ (25916) 2001 CP44. Наблюдения проводились удаленно, Л.В. Елениным, на обсерватории ISON-NM, с использованием 40-сантиметрового телескопа Сантел-400АН. Полученные данные о периоде вращения астероида не совпадают с данными полученными Л.В. Елениным в 2010 году (*Еленин, 2012*). Для подт верждения эт их результатов запланированы дальнейшие наблюдения этого астероида в июне-июле и возможно, с привлечением более крупные телескопов, в ноябре-декабре 2014 года.

В течении лунации обсерваториями Аресибо и Голдстоун проведена радиолокация пяти АСЗ (2004 FG11 повторно) размерами от 30 до

550 метров, на дальностях 0.012 - 0.089 а.е., при мощности излучателя 200 - 600 кВт. Радиолокация АС3 2014 GG49 на обсерватории Аресибо была отменена, ввиду технических проблем с азимутальным ведением излучателя.

ПРИЛОЖЕНИЕ 1. ПОКРЫТИЕ НЕБЕСНОЙ СФЕРЫ ТЕЛЕСКОПАМИ НСОИ АФН/ISON



ПРИЛОЖЕНИЕ 2. ОБСЕРВАТОРИИ, УЧАСТВУЮЩИЕ В РАБОТЕ

Код MPC	Обсерватория	Телескоп	Камера	Поле зрения, угл. мин	Масштаб, “/пикс	Фильтры	Координаты	Высота, м
A50	Andrushivka Astronomical Observatory	ORI-500 0.5-м f/2.3	FLI PL4301	148x148	4.27	-	50° 00’ 03” N 28° 59’ 53 E	227
C15	ISON-Ussuriysk Observatory	Сантел-650A 0.65-м f/2	FLI PL4301	132x132	3.81	-	43° 41’ 55” N 132° 09’ 56” E	279
D00	ISON-Kislovodsk Observatory	Сантел-400AH 0.4-м f/3	FLI ML09000	106x106	2.06	BVRI	43° 44’ 25” N 42° 39’ 13” E	2 107
H15	ISON-NM Observatory	Сантел-400AH 0.4-м f/3	FLI PL16803	106x106	1.55	BVRIC	32° 54’ 12” N 105° 31’ 42” W	2 217

ПРИЛОЖЕНИЕ 3.
ПОЗИЦИОННЫЕ ИЗМЕРЕНИЯ СЕТИ НСОИ АФН/ISON

ISON-NM (H15)

```
04327 C2014 04 21.20815 13 52 15.56 +01 23 04.1 15.4 Rq~13O9H15
22032 C2014 04 21.20815 13 52 43.15 +01 30 28.6 18.7 Rq~13PqH15
27772 C2014 04 21.20815 13 47 22.77 +01 00 06.3 18.7 Rq~13QKH15
28476 C2014 04 21.20815 13 52 45.70 +00 56 06.2 17.4 Rq~13QOH15
50060 C2014 04 21.20815 13 49 51.74 +00 47 39.2 16.3 Rq~13S6H15
51171 C2014 04 21.20815 13 52 42.34 +00 35 12.2 17.9 Rq~13SCH15
58002 C2014 04 21.20815 13 48 38.45 +01 34 49.7 17.1 Rq~13SmH15
62381 C2014 04 21.20815 13 50 55.77 +00 23 00.5 17.4 Rq~13TFH15
63683 C2014 04 21.20815 13 51 28.19 +01 14 49.1 19.0 Rq~13TMH15
94692 C2014 04 21.20815 13 50 22.63 +00 54 07.0 18.5 Rq~13VGH15
C5115 C2014 04 21.20815 13 49 44.37 +01 22 07.8 17.1 Rq~13X1H15
C5801 C2014 04 21.20815 13 51 44.93 +01 29 12.9 18.8 Rq~13X5H15
D9432 C2014 04 21.20815 13 48 54.05 +00 58 06.3 19.1 Rq~13XhH15
E1335 C2014 04 21.20815 13 46 59.79 +01 31 53.7 19.2 Rq~13XrH15
E6194 C2014 04 21.20815 13 51 33.21 +01 18 30.2 19.8 Rq~13Y2H15
F0685 C2014 04 21.20815 13 47 22.60 +01 14 49.2 18.5 Rq~13YDH15
F1960 C2014 04 21.20815 13 46 28.41 +01 26 03.2 19.4 Rq~13YFH15
H6463 C2014 04 21.20815 13 50 29.82 +00 06 55.9 19.4 Rq~13ZTH15
N3539 C2014 04 21.20815 13 50 07.96 +01 44 00.6 18.9 Rq~13bfH15
Z0762 C2014 04 21.20815 13 46 14.43 +01 15 57.3 19.7 Rq~13ezH15
14707 C2014 04 21.21038 13 52 44.98 +02 20 47.0 18.0 Rq~13PDH15
25728 C2014 04 21.21038 13 50 51.00 +01 50 03.7 19.0 Rq~13Q9H15
37623 C2014 04 21.21038 13 49 48.06 +02 54 29.4 17.0 Rq~13REH15
53459 C2014 04 21.21038 13 50 35.57 +02 46 44.3 16.8 Rq~13SNH15
68448 C2014 04 21.21038 13 48 22.60 +03 08 31.0 19.0 Rq~13TjH15
72806 C2014 04 21.21038 13 48 11.19 +02 22 23.2 18.6 Rq~13TzH15
73441 C2014 04 21.21038 13 49 39.50 +02 03 16.0 18.9 Rq~13U1H15
89811 C2014 04 21.21038 13 52 29.46 +03 28 23.8 19.4 Rq~13V0H15
C1240 C2014 04 21.21038 13 51 21.07 +02 54 33.9 19.2 Rq~13WoH15
C1992 C2014 04 21.21038 13 50 48.74 +01 46 32.9 17.9 Rq~13WqH15
C4137 C2014 04 21.21038 13 50 00.73 +03 14 22.8 19.0 Rq~13WwH15
E0846 C2014 04 21.21038 13 48 42.39 +02 35 11.0 19.1 Rq~13XoH15
G9818 C2014 04 21.21038 13 51 31.79 +03 08 10.0 19.3 Rq~13Z9H15
L4841 C2014 04 21.21038 13 52 04.69 +02 45 48.1 19.3 Rq~13bEH15
M8779 C2014 04 21.21038 13 49 55.38 +02 48 03.1 19.1 Rq~13bRH15
00001 C2014 04 21.21260 13 47 42.28 +03 40 01.6 10.6 Rq~13NgH15
33498 C2014 04 21.21260 13 48 22.23 +04 35 31.4 16.7 Rq~13QsH15
61651 C2014 04 21.21260 13 47 55.47 +05 05 35.1 18.8 Rq~13TAH15
71338 C2014 04 21.21260 13 52 33.20 +04 44 26.5 18.0 Rq~13TvH15
84030 C2014 04 21.21260 13 48 21.03 +04 06 50.8 19.1 Rq~13UbH15
90274 C2014 04 21.21260 13 52 55.58 +03 54 12.1 18.6 Rq~13V1H15
90296 C2014 04 21.21260 13 50 59.62 +05 12 55.0 18.4 Rq~13V2H15
B8277 C2014 04 21.21260 13 50 42.73 +03 34 58.1 19.1 Rq~13WcH15
E7951 C2014 04 21.21260 13 51 48.45 +04 27 26.1 19.3 Rq~13Y7H15
E9811 C2014 04 21.21260 13 46 53.66 +04 41 23.6 19.4 Rq~13YBH15
F3658 C2014 04 21.21260 13 51 16.44 +03 35 52.1 18.7 Rq~13YLH15
J3767 C2014 04 21.21260 13 51 20.29 +05 03 07.3 18.2 Rq~13a6H15
Y7915 C2014 04 21.21260 13 47 21.13 +04 30 59.7 19.3 Rq~13eoH15
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26772	C2014 04 22.37385 15 11 43.89 -20 01 44.6	19.0	Rq~13QFH15	22776	C2014 04 22.38699 15 07 17.17 -20 46 26.2	18.2	Rq~13PuH15
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63138	C2014 04 28.25436 14 20 43.80 +00 01 07.7	19.4 Rq~13rBH15
65003	C2014 04 28.25436 14 17 27.92 +01 23 46.7	18.3 Rq~13rKH15
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34230	C2014 04 28.25898 14 18 55.63 +05 59 59.7	17.6 Rq~13p9H15
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37186	C2014 04 28.26213 14 17 01.59 +04 32 18.3	18.7 Rq~13pNH15
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71406	C2014 04 28.26213 14 21 14.99 +04 53 10.1	19.1 Rq~13reH15
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58111	C2014 04 28.26486 14 16 27.36 +01 08 16.3	18.2 Rq~13qkH15
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N2750	C2014 04 28.26709 14 20 15.54 +01 51 00.1	19.3 Rq~13xhH15
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71406	C2014 04 28.27257 14 21 14.52 +04 53 12.4	19.1 Rq~13reH15
75490	C2014 04 28.27257 14 21 53.43 +04 16 00.9	19.3 Rq~13rmH15
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46138	C2014 04 28.27758 14 17 48.60 +03 07 32.2	18.1 Rq~13pwH15
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57003	C2014 04 28.29253 14 36 36.64 +03 31 27.3	17.8 Rq~13qfH15
71118	C2014 04 28.29253 14 34 27.51 +04 46 16.6	18.3 Rq~13rcH15
95332	C2014 04 28.29253 14 35 05.32 +04 10 59.4	18.0 Rq~13smH15
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K05YH6P	C2014 04 28.29948 14 47 39.53 +00 48 24.1	19.3 Rq~13gTH15
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18868	C2014 04 28.31524 14 34 30.90 +03 42 58.5	16.9 Rq~13nzH15
41385	C2014 04 28.31524 14 31 04.61 +04 37 40.4	18.6 Rq~13pdH15
45704	C2014 04 28.31524 14 37 15.75 +04 51 37.2	19.2 Rq~13puH15
57003	C2014 04 28.31524 14 36 35.62 +03 31 30.7	17.7 Rq~13qfH15
71118	C2014 04 28.31524 14 34 26.25 +04 46 19.7	18.5 Rq~13rcH15
95332	C2014 04 28.31524 14 35 04.44 +04 11 06.7	18.0 Rq~13snH15
O6639	C2014 04 28.31524 14 33 04.64 +04 52 57.0	19.1 Rq~13yHH15
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K05YH6P	C2014 04 28.32284 14 47 38.06 +00 48 26.1	19.1 Rq~13gTH15
89595	C2014 04 28.32284 14 46 39.97 +00 18 55.2	19.0 Rq~13sVH15
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A9576	C2014 04 28.32284 14 48 18.27 +00 21 49.0	18.8 Rq~13tWH15
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     K14HC4W   C2014 04 28.33553 14 53 45.94 +01 15 35.4          19.1 Rq~13lJH15
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07019          C2014 04 28.33553 14 57 46.94 +01 20 28.1          16.7 Rq~13mvH15
13078          C2014 04 28.33553 14 57 21.50 +01 21 30.2          17.1 Rq~13nUH15
24780          C2014 04 28.33553 14 56 08.72 +00 08 46.8          18.6 Rq~13oPH15
95423          C2014 04 28.33553 14 52 34.36 +00 02 58.7          18.6 Rq~13snH15
U6014          C2014 04 28.33553 14 56 06.66 +01 14 22.1          18.4 Rq~13zhH15
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d1661          C2014 04 28.33553 14 57 31.59 +00 33 37.5          19.6 Rq~141FH15
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77028          C2014 04 28.34002 14 57 59.10 +05 58 22.4          17.8 Rq~13rsH15
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A8467          C2014 04 28.34819 14 58 31.73 +03 55 28.6          18.5 Rq~13tUH15
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d0676          C2014 04 28.34819 14 52 55.94 +03 57 58.7          19.7 Rq~1418H15
40695          C2014 04 28.34819 14 52 37.75 +04 19 05.0          18.9 Rq~13pbH15
71431          C2014 04 28.34819 14 56 30.80 +04 42 56.1          19.3 Rq~13reH15
20864          C2014 04 28.35042 14 54 28.25 +06 29 01.7          16.6 Rq~13o8H15
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77028          C2014 04 28.35042 14 57 58.42 +05 58 23.4          17.5 Rq~13rsH15
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95423          C2014 04 28.35635 14 52 33.44 +00 03 14.9          18.8 Rq~13snH15
07019          C2014 04 28.35635 14 57 45.62 +01 20 30.6          16.4 Rq~13mvH15
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13078          C2014 04 28.35635 14 57 20.25 +01 21 31.4          17.2 Rq~13nUH15
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71431          C2014 04 28.35869 14 56 30.21 +04 42 58.2          19.8 Rq~13reH15
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45264	C2014 05 04.26794 14 34 22.83 -20 33 23.5	18.3 Rq~14AYH15
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E9307	C2014 05 04.26794 14 36 24.27 -19 42 11.6	19.0 Rq~14GlH15
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23525	C2014 05 04.27774 14 55 17.73 -18 01 15.5	18.9 Rq~148tH15
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K4862	C2014 05 04.29433 14 43 33.34 -17 01 38.6	19.3 Rq~14JIH15
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60831	C2014 05 04.30403 14 43 43.55 -16 30 08.4	17.9	Rq~14BiH15
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22776	C2014 05 04.30708 14 54 44.36 -20 38 57.6	17.2	Rq~148pH15
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77392	C2014 05 04.30708 14 54 07.83 -19 41 50.9	18.1	Rq~14CnH15
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36232	C2014 05 04.31860 14 50 33.93 -21 08 16.8	17.3	Rq~149vH15
34314	C2014 05 04.31860 14 52 11.20 -20 35 17.5	16.0	Rq~149kH15
22776	C2014 05 04.31860 14 54 43.66 -20 38 56.6	17.2	Rq~148pH15
09920	C2014 05 04.31860 14 50 22.42 -19 47 14.4	16.7	Rq~147jH15
04006	C2014 05 04.31860 14 53 37.84 -20 05 55.2	16.3	Rq~1478H15
77392	C2014 05 04.31860 14 54 07.15 -19 41 50.8	18.2	Rq~14CnH15
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22158	C2014 05 04.35331 14 51 47.10 -05 22 50.4	18.4	Rq~148mH15
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O0140	C2014 05 04.35331 14 54 33.86 -05 59 12.8	18.7	Rq~14KYH15
Y5781	C2014 05 04.35331 14 53 19.00 -05 21 10.0	18.9	Rq~14NcH15
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B5805	C2014 05 04.35781 14 51 32.15 -08 28 22.8	18.0	Rq~14F7H15
61032	C2014 05 04.35781 14 54 05.75 -07 48 35.4	17.8	Rq~14BkH15
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13473	C2014 05 04.35781 14 50 36.86 -08 02 45.7	16.0	Rq~1482H15
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44245	C2014 05 04.36372 14 50 18.42 -05 25 14.7	17.5	Rq~14ATH15
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23679	C2014 05 04.36372 14 50 31.80 -06 24 54.8	17.9	Rq~148uH15
22158	C2014 05 04.36372 14 51 46.44 -05 22 47.7	18.7	Rq~148mH15
16951	C2014 05 04.36372 14 50 40.64 -06 27 22.7	16.6	Rq~148MH15
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O0140	C2014 05 04.36372 14 54 33.22 -05 59 13.7	18.6	Rq~14KYH15
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59417	C2014 05 04.36832 14 54 37.08 -07 50 37.1	17.4	Rq~14BaH15
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23679	C2014 05 04.37392 14 50 31.30 -06 24 49.6	17.8	Rq~148uH15
16951	C2014 05 04.37392 14 50 40.06 -06 27 22.8	16.7	Rq~148MH15
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W6383	C2014 05 05.31376 15 14 08.52 +00 51 53.6	18.8 Rq~14NMH15
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76544	C2014 05 05.31737 15 12 26.37 -03 09 10.4	18.7 Rq~14CkH15
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14127	C2014 05 05.34961 15 18 56.81 +01 55 42.2	16.7 Rq~1486H15
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52724	C2014 05 05.35775 15 19 51.84 +01 26 02.4	16.8 Rq~14B2H15
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B8942	C2014 05 05.35998 15 22 42.77 +02 31 21.8	18.8 Rq~14FIH15
B2296	C2014 05 05.35998 15 21 09.87 +02 56 36.9	17.2 Rq~14EwH15
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14127	C2014 05 05.35998 15 18 56.31 +01 55 47.1	16.5 Rq~1486H15
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d0314	C2014 05 05.35998 15 25 18.73 +02 40 41.4	19.2 Rq~14OeH15
44269	C2014 05 05.36214 15 12 44.02 +03 04 48.7	17.7 Rq~14ATH15
76411	C2014 05 05.36214 15 15 46.36 +02 13 03.8	16.9 Rq~14CjH15
40702	C2014 05 05.36214 15 16 35.74 +02 44 58.5	17.9 Rq~14AFH15
33417	C2014 05 05.36214 15 18 04.08 +02 01 36.1	17.3 Rq~149gH15
28582	C2014 05 05.36214 15 16 43.92 +02 38 33.6	17.2 Rq~149HH15
38738	C2014 05 05.36214 15 16 17.00 +01 45 33.0	18.3 Rq~14A7H15
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68767	C2014 05 05.36877 15 17 59.73 +04 21 37.0	18.4 Rq~14CLH15
65335	C2014 05 05.36877 15 15 17.85 +04 38 00.3	18.8 Rq~14C9H15
42235	C2014 05 05.36877 15 17 21.66 +03 36 52.8	18.3 Rq~14AKH15
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C9199	C2014 05 05.36877 15 17 34.71 +04 16 36.5	18.0 Rq~14FrH15
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68767	C2014 05 05.37917 15 17 59.24 +04 21 42.7	18.2 Rq~14CLH15
65335	C2014 05 05.37917 15 15 17.32 +04 38 05.2	18.6 Rq~14C9H15
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04804	C2014 05 05.42331 15 08 11.04 -06 05 26.7	15.7 Rq~147DH15	32883	C2014 05 06.33170 15 41 02.10 -23 07 32.5	18.6 Rq~149cH15
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