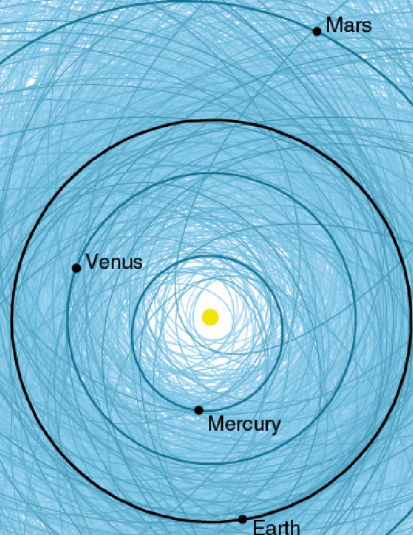




ОРДЕНА ЛЕНИНА
ИНСТИТУТ ПРИКЛАДНОЙ МАТЕМАТИКИ
ИМЕНИ М.В. КЕЛДЫША
РОССИЙСКОЙ АКАДЕМИИ НАУК

Бюллетень № 14-7 (4)

7-я лунация 2014 г.
11.06.14 – 08.07.14



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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7-я лунация 2014 г.

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I. ОБЩАЯ СТАТИСТИКА ИЗМЕРЕНИЙ МАЛЫХ ТЕЛ СОЛНЕЧНОЙ СИСТЕМЫ

№	Код MPC	Измерений	Объектов	Открыто	Обсерватория
1.	F51	432355	80930	1957	Pan-STARRS 1
2.	G96	115824	24889	786	Mt. Lemmon Survey
3.	703	63222	13890	14	Catalina Sky Survey
4.	691	37721	7429	184	Spacewatch
5.	C51	27524	1108	9	WISE
6.	689	9524	526	0	U.S. Naval Observatory
7.	J43	5663	983	15	Oukaimeden Observatory
8.	J04	4734	1345	13	ESA Optical Ground Station
9.	I41	3446	579	3	Palomar Mountain--PTF
10.	926	2859	930	1	Tenagra II Observatory
11.	H15	2605	715	1	ISON-NM Observatory
12.	Y00	2067	620	2	SONEAR Observatory
13.	G32	1994	361	35	Elena Remote Observatory
14.	644	1433	275	0	Palomar Mountain/NEAT
15.	291	1169	303	1	LPL/Spacewatch II
16.	071	1163	23	0	NAO Rozhen
17.	H21	1035	151	0	Astronomical Research Observatory
18.	I52	998	208	2	Mt. Lemmon Station
19.	950	639	95	4	La Palma
20.	C41	620	189	0	MASTER-II Observatory
21.	807	551	133	0	Cerro Tololo Observatory
22.	H45	487	36	0	Arkansas Sky Observatory
23.	E12	473	91	0	Siding Spring Survey
24.	568	431	136	2	Mauna Kea
25.	474	336	81	0	Mount John Observatory
26.	673	326	61	0	Table Mountain Observatory
27.	168	279	59	0	Kourovskaya
28.	152	246	72	0	Moletai Astronomical Observatory
29.	645	244	107	0	Apache Point-Sloan Digital Sky Survey
30.	Q62	215	69	0	iTelescope Observatory, Siding Spring
114.	A50	9	2	0	Andrushivka Astronomical Observatory
151.	D00	4	1	0	ISON-Kislovodsk Observatory

II. ОБЩАЯ СТАТИСТИКА ПО КОЛИЧЕСТВУ ОТКРЫТЫХ ОБЪЕКТОВ

№	Код MPC	Измерений	Объектов	Открыто	Обсерватория
1.	F51	432355	80930	1957	Pan-STARRS 1
2.	G96	115824	24889	786	Mt. Lemmon Survey
3.	691	37721	7429	184	Spacewatch
4.	G32	1994	361	35	Elena Remote Observatory
5.	J43	5663	983	15	Oukaïmeden Observatory
6.	703	63222	13890	14	Catalina Sky Survey
7.	J04	4734	1345	13	ESA Optical Ground Station
8.	C51	27524	1108	9	WISE
9.	950	639	95	4	La Palma
10.	I41	3446	579	3	Palomar Mountain--PTF
11.	I52	998	208	2	Mt. Lemmon Station
	621	165	41	2	Bergisch Gladbach
	Y00	2067	620	2	SONEAR Observatory
	568	431	136	2	Mauna Kea
12.	291	1169	303	1	LPL/Spacewatch II
	E10	31	8	1	Siding Spring-Faulkes Telescope South
	461	110	31	1	University of Szeged (Konkoly)
	926	2859	930	1	Tenagra II Observatory
	I47	41	10	1	Pierre Auger Observatory
	H15	2605	715	1	ISON-NM Observatory
	C29	12	3	1	Obs. Astronomic de Les Planes de Son

III. СТАТИСТИКА ПО ОТКРЫТЫМ АСЗ

	Количество	Потенциально опасные	Атира	Атоны	Аполлонцы	Амуры
Лунация	109	12	0	7	42	60
Всего	11 282	1 507	21	852	5 608	4 801

IV. ТЕСНЫЕ СБЛИЖЕНИЯ АСЗ С ЗЕМЛЕЙ

Тесных сближений за отчетный период времени не зафиксировано.

V. ФОТОМЕТРИЯ АСЗ

В отчетный период фотометрические наблюдения не проводились.

VI. ДАННЫЕ РАДИОЛОКАЦИИ АСЗ

Обозначение	*	Дата начала наблюдений	Дата окончания наблюдений	Обсерватория	D, м	Δ_0 , а.е.	Δ_1 , а.е.	P, кВт
2014 HQ124	РНА	2014-06-08	2014-06-11	Голдстоун	330	0.010↑	0.023↑	440
C/2013 UQ4 (Catalina)	С	2014-06-06	2014-07-15	Голдстоун	23 500	0.350↓	0.363↑	430
		2014-06-25	2014-07-25	Аресибо		0.654↓	0.668↑	430

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

VII. АСТРОМЕТРИЯ АСЗ

ISON-NM (H15)

40263	C2014 06 22.25612 18 23 58.68 +39 06 35.2	19.7 Rq~15kDH15
40263	C2014 06 22.26725 18 23 57.86 +39 06 41.5	19.0 Rq~15kDH15
40263	C2014 06 22.27750 18 23 57.13 +39 06 45.4	19.4 Rq~15kDH15
40263	C2014 06 22.28937 18 23 56.27 +39 06 49.6	19.7 Rq~15kDH15
68348	C2014 06 25.16927 17 33 18.49 +02 26 36.2	16.6 Rq~15mNH15
68348	C2014 06 25.17931 17 33 17.15 +02 26 42.6	16.6 Rq~15mNH15
68348	C2014 06 25.19089 17 33 15.61 +02 26 50.1	16.2 Rq~15mNH15
68348	C2014 06 25.20051 17 33 14.25 +02 26 56.0	16.9 Rq~15mNH15
01917	C2014 06 28.24444 16 39 39.42 +16 55 02.3	17.1 Rq~161qH15
01917	C2014 06 28.25429 16 39 38.74 +16 55 02.4	17.0 Rq~161qH15
01917	C2014 06 28.26476 16 39 37.98 +16 55 02.4	17.1 Rq~161qH15
01917	C2014 06 28.27457 16 39 37.27 +16 55 02.3	17.1 Rq~161qH15

VIII. ОБОБЩЕННЫЕ РЕЗУЛЬТАТЫ

В ходе прошедшей лунации (11.06.14 - 08.07.14), обсерваториями НСОИ АФН, участвующими в наблюдениях малых тел Солнечной системы, получено 2 618 позиционных измерения. По полученным результатам, среди всех наблюдателей, обсерватория ISON-NM заняла 1 и 12 места соответственно. В целом, обсерваториями мира были открыты 109 АСЗ, в том числе 12 потенциально опасных. Общее количество известных АСЗ на данный момент - 11 282 из них потенциально опасных - 1 507 (13.4%).

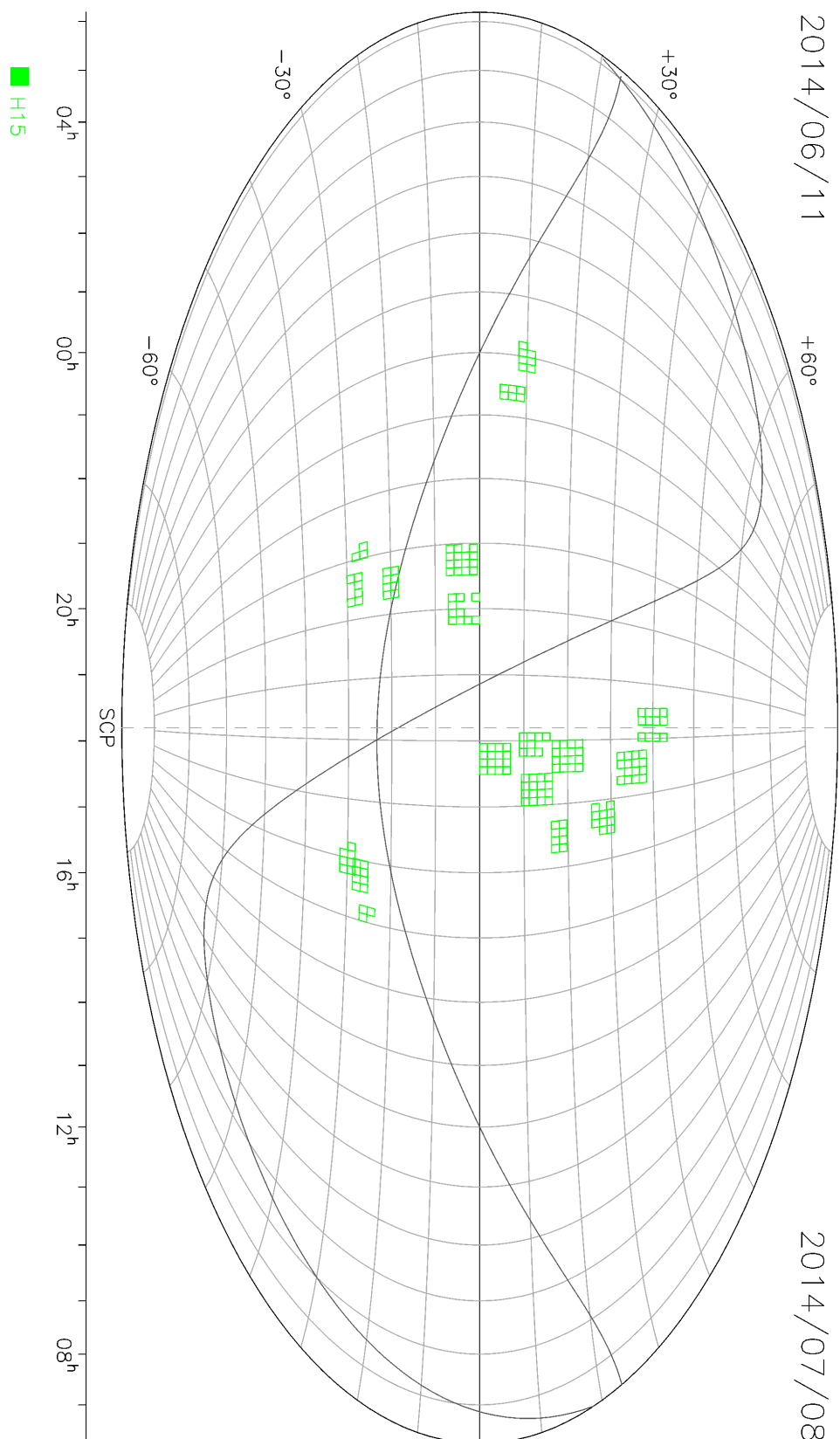
В течении лунации не было зафиксировано ни одного тесного сближения малого тела Солнечной системы с Землей. Отчасти это может объясняться сезонным фактором - периодом муссонов на юго-западе США, где расположено большинство обзорных телескопов работающих по тематике АКО.

За отчетный период фотометрические наблюдения не проводились.

В течении лунации радио обсерваторией Голдстоун проведена радиолокация одного потенциально опасного АСЗ - 2014 HQ124, диаметром порядка от 300 до 400 метров, на дальностях 0.01 - 0.023 а.е. Помимо этого, была проведена совместная локация ядра долгопериодической кометы C/2013 UQ4 (Catalina) на сверхдальних дистанциях (0.35 - 0.668 а.е.). Диаметр ядра кометы оценивается в 23.5 км. Используемая мощность излучателя 430 - 440 кВт.

ПРИЛОЖЕНИЕ 1. ПОКРЫТИЕ НЕБЕСНОЙ СФЕРЫ ТЕЛЕСКОПАМИ НСОИ АФН/ISON

7-я лунация, 11.06.14 – 08.07.14



ПРИЛОЖЕНИЕ 2. ОБСЕРВАТОРИИ, УЧАСТВУЮЩИЕ В РАБОТЕ

Код МРС	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

ПРИЛОЖЕНИИ 3. ПОЗИЦИОННЫЕ ИЗМЕРЕНИЯ СЕТИ НСОИ АФН/ISON

ISON-NM (H15)

05047	C2014 06 20.22191 16 01 33.34 -28 27 14.2	17.0 Rq-15goH15	02034	C2014 06 20.27553 15 58 37.42 -31 37 52.4	16.0 Rq-15gDH15
52613	C2014 06 20.22191 16 03 00.01 -29 36 09.5	17.0 Rq-15l6H15	02432	C2014 06 20.27553 15 53 24.33 -30 06 06.2	16.3 Rq-15gKH15
S8806	C2014 06 20.22191 16 02 02.28 -29 28 13.0	19.4 Rq-15vxH15	88789	C2014 06 20.27553 15 56 02.20 -31 25 07.1	19.4 Rq-15n2H15
c7735	C2014 06 20.22191 16 02 16.27 -29 49 33.9	19.3 Rq-15diH15	91196	C2014 06 20.27553 15 54 29.02 -31 42 26.9	19.9 Rq-15nKH15
K06QA8T	C2014 06 20.22543 16 11 36.35 -29 27 20.2	12.5 Rq-15fdH15	Z3249	C2014 06 20.27553 15 54 41.89 -30 35 43.4	19.8 Rq-15xgH15
	C2014 06 20.22543 16 12 25.47 -29 08 25.3	14.2 Rq-15fvH15	02494	C2014 06 20.27927 15 48 01.17 -29 14 52.2	15.2 Rq-15gJH15
00577	C2014 06 20.22543 16 13 27.85 -29 27 56.2	17.0 Rq-15gYH15	02747	C2014 06 20.27927 15 44 58.00 -28 48 41.9	15.5 Rq-15goH15
01214	C2014 06 20.22543 16 13 16.76 -29 40 54.3	19.3 Rq-15miH15	09143	C2014 06 20.27927 15 47 07.03 -28 32 48.3	16.2 Rq-15hJH15
03489	C2014 06 20.22543 16 09 17.90 -29 27 56.3	19.8 Rq-15pQH15	43344	C2014 06 20.27927 15 48 33.61 -28 36 28.0	18.0 Rq-15kTH15
74137	C2014 06 20.22543 16 11 24.58 -28 42 06.4	19.3 Rq-15qzH15	99049	C2014 06 20.27927 15 45 06.30 -29 11 49.6	18.1 Rq-15oOH15
B8466	C2014 06 20.22543 16 14 02.70 -29 22 24.7	17.7 Rq-15rHH15	D2335	C2014 06 20.27927 15 48 12.76 -28 31 30.4	18.7 Rq-15gHH15
E6935	C2014 06 20.22543 16 10 08.32 -29 25 30.0	U2656	10064	C2014 06 20.28153 15 47 48.02 -30 08 11.9	15.6 Rq-15hPH15
F3379	C2014 06 20.22543 16 11 36.35 -29 27 20.2	18.5 Rq-15iOH15	14510	C2014 06 20.28153 15 49 46.26 -30 04 42.3	16.3 Rq-15shH15
e0033K06QA8T	C2014 06 20.22991 16 05 30.72 -30 50 58.3	17.7 Rq-15jshH15	33732	C2014 06 20.28153 15 48 31.19 -30 25 56.7	17.0 Rq-15jeH15
19723	C2014 06 20.22991 16 05 13.98 -30 48 37.0	18.9 Rq-15pnH15	B9131	C2014 06 20.28153 15 46 44.89 -30 11 27.2	17.7 Rq-15pTH15
36253	C2014 06 20.22991 16 03 49.49 -31 38 56.2	18.7 Rq-15ryH15	D9214	C2014 06 20.28153 15 46 46.61 -31 25 05.6	16.7 Rq-15gZH15
C5053	C2014 06 20.22991 16 05 27.14 -31 10 14.4	17.0 Rq-15goH15	H3671	C2014 06 20.28153 15 49 11.44 -31 12 56.0	18.2 Rq-15sCH15
G8573	C2014 06 20.23218 16 01 32.75 -28 27 12.2	18.1 Rq-15jTH15	34823	C2014 06 20.28376 15 53 38.33 -28 32 44.6	19.5 Rq-15jLH15
05047	C2014 06 20.23218 16 05 27.57 -29 34 51.6	17.1 Rq-15l6H15	35675	C2014 06 20.28376 15 53 13.25 -30 00 47.7	17.7 Rq-15jPH15
31737	C2014 06 20.23218 16 02 59.43 -29 36 10.2	19.6 Rq-15riH15	40596	C2014 06 20.28376 15 56 42.90 -29 39 12.0	18.9 Rq-15kEH15
52613	C2014 06 20.23218 16 06 03.39 -29 40 55.8	19.0 Rq-15vxH15	45467	C2014 06 20.28376 15 54 12.99 -28 52 32.4	18.2 Rq-15sCH15
G3229	C2014 06 20.23218 16 02 01.95 -29 28 09.6	19.5 Rq-15yTH15	E3333	C2014 06 20.28376 15 59 26.89 -29 49 32.3	18.9 Rq-15goH15
S8806	C2014 06 20.23218 16 02 15.84 -29 49 34.0	12.5 Rq-15fdH15	U2656	C2014 06 20.28376 15 58 00.33 -29 50 14.2	19.2 Rq-15wVH15
c7735	C2014 06 20.23440 16 12 25.08 -29 08 23.4	14.1 Rq-15fvH15	02034	C2014 06 20.28597 15 58 36.83 -31 37 50.5	16.1 Rq-15gDH15
00577	C2014 06 20.23440 16 13 16.26 -29 40 53.2	16.8 Rq-15pQH15	02432	C2014 06 20.28597 15 53 23.81 -30 06 04.1	16.3 Rq-15gKH15
01214	C2014 06 20.23440 16 11 24.15 -28 42 06.5	19.4 Rq-15qzH15	88789	C2014 06 20.28597 15 56 01.66 -31 25 05.2	19.8 Rq-15nZH15
03489	C2014 06 20.23440 16 14 02.28 -29 22 24.5	17.6 Rq-15rHH15	91196	C2014 06 20.28597 15 54 28.57 -31 42 24.8	19.3 Rq-15nKH15
B8466	C2014 06 20.23440 16 10 07.89 -29 25 29.3	18.8 Rq-15iOH15	C3390	C2014 06 20.28597 15 52 36.93 -30 52 24.0	18.5 Rq-15pH15
E6935	C2014 06 20.24006 16 05 30.34 -30 50 55.1	18.1 Rq-15jshH15	Z3249	C2014 06 20.28597 15 54 41.00 -30 35 42.9	20.0 Rq-15xgH15
F3379	C2014 06 20.24006 16 03 49.08 -31 38 52.5	18.7 Rq-15pnH15	02494	C2014 06 20.28953 15 48 00.79 -29 14 48.7	15.0 Rq-15gJH15
19723	C2014 06 20.24006 16 05 13.55 -30 48 33.9	17.2 Rq-15l6H15	02747	C2014 06 20.28953 15 44 57.62 -28 48 39.8	15.5 Rq-15goH15
36253	C2014 06 20.24006 16 03 27.57 -29 34 48.8	19.8 Rq-15ryH15	09143	C2014 06 20.28953 15 47 06.50 -28 32 45.3	16.3 Rq-15hJH15
C5053	C2014 06 20.24233 16 02 58.88 -29 36 10.8	18.9 Rq-15riH15	43344	C2014 06 20.28953 15 48 33.20 -28 36 24.7	18.3 Rq-15kTH15
52613	C2014 06 20.24233 16 06 02.87 -29 40 52.4	19.3 Rq-15yTH15	99049	C2014 06 20.28953 15 45 05.86 -29 11 50.1	19.1 Rq-15oOH15
G3229	C2014 06 20.24233 16 02 15.81 -29 49 34.5	19.2 Rq-15diH15	D2335	C2014 06 20.28953 15 48 12.23 -28 31 28.7	18.4 Rq-15gHH15
S8806	C2014 06 20.24233 16 02 05.21 -29 49 34.5	12.5 Rq-15fdH15	10064	C2014 06 20.29353 15 47 47.42 -30 08 10.9	15.8 Rq-15hPH15
c7735	C2014 06 20.24627 16 11 35.48 -29 27 09.3	14.2 Rq-15fvH15	14510	C2014 06 20.29353 15 49 45.61 -30 04 39.0	16.1 Rq-15shH15
00577	C2014 06 20.24627 16 12 24.55 -29 08 20.9	17.0 Rq-15gYH15	33732	C2014 06 20.29353 15 48 30.74 -30 25 53.3	17.2 Rq-15jeH15
01214	C2014 06 20.24627 16 13 15.58 -29 40 51.4	19.8 Rq-15qzH15	B9131	C2014 06 20.29353 15 46 44.37 -30 11 23.5	18.3 Rq-15pTH15
03489	C2014 06 20.24627 16 09 16.98 -29 27 44.1	18.2 Rq-15rHH15	D9214	C2014 06 20.29353 15 46 45.98 -31 25 09.8	16.6 Rq-15gZH15
74137	C2014 06 20.24627 16 13 15.58 -29 27 44.1	19.2 Rq-15diH15	H3671	C2014 06 20.29353 15 49 11.10 -31 12 43.7	17.9 Rq-15sCH15
E6935	C2014 06 20.24627 16 14 01.68 -29 22 26.5	18.9 Rq-15iOH15	09581	C2014 06 20.29581 15 59 51.25 -29 54 18.3	16.2 Rq-15hMH15
F3379	C2014 06 20.24627 16 10 07.30 -29 25 28.2	17.8 Rq-15jshH15	34823	C2014 06 20.29581 15 53 37.74 -28 32 41.4	20.3 Rq-15jLH15
e0033K06QA8T	C2014 06 20.24627 16 11 35.48 -29 27 09.3	18.4 Rq-15ryH15	35675	C2014 06 20.29581 15 53 12.73 -30 00 43.7	18.3 Rq-15jPH15
19723	C2014 06 20.25071 16 05 29.65 -30 50 51.8	17.6 Rq-15goH15	40596	C2014 06 20.29581 15 56 42.99 -29 39 08.0	18.4 Rq-15kEH15
36253	C2014 06 20.25071 16 05 13.14 -30 48 30.7	17.8 Rq-15jTH15	E3333	C2014 06 20.29581 15 59 26.28 -29 49 32.1	19.7 Rq-15goH15
G8573	C2014 06 20.25071 16 05 25.90 -31 09 51.7	18.8 Rq-15riH15	U2656	C2014 06 20.29581 15 57 59.71 -29 50 12.6	19.5 Rq-15wVH15
05047	C2014 06 20.25297 16 01 31.76 -28 27 08.4	19.0 Rq-15vxH15	02034	C2014 06 20.29808 15 58 36.17 -31 37 48.1	16.0 Rq-15gDH15
31737	C2014 06 20.25297 16 05 26.50 -29 34 45.4	20.0 Rq-15yTH15	02432	C2014 06 20.29808 15 53 23.21 -30 06 01.6	16.0 Rq-15hPH15
G3229	C2014 06 20.25297 16 06 02.39 -29 40 48.4	19.2 Rq-15diH15	88789	C2014 06 20.29808 15 56 00.87 -31 25 01.4	19.8 Rq-15n2H15
S8806	C2014 06 20.25297 16 02 01.22 -29 28 02.1	12.5 Rq-15fdH15	91196	C2014 06 20.29808 15 52 36.40 -30 52 19.3	18.1 Rq-15pH15
c7735	C2014 06 20.25297 16 02 15.17 -29 49 34.1	14.2 Rq-15fvH15	Z3249	C2014 06 20.29808 15 54 40.91 -30 35 42.0	19.4 Rq-15xgH15
K06QA8T	C2014 06 20.25625 16 11 35.10 -29 27 03.9	17.0 Rq-15gYH15	02747	C2014 06 20.30030 15 44 57.22 -28 48 37.5	15.2 Rq-15goH15
00577	C2014 06 20.25625 16 12 24.11 -29 08 18.9	19.8 Rq-15qzH15	09143	C2014 06 20.30030 15 47 05.95 -28 32 42.1	16.5 Rq-15hJH15
03489	C2014 06 20.25625 16 13 15.02 -29 40 50.0	18.2 Rq-15rHH15	43344	C2014 06 20.30030 15 48 32.72 -28 36 21.2	18.1 Rq-15kTH15
74137	C2014 06 20.25625 16 09 16.56 -29 27 38.3	17.8 Rq-15jshH15	D2335	C2014 06 20.30030 15 48 11.70 -28 31 27.4	18.6 Rq-15gHH15
B8466	C2014 06 20.25625 16 11 23.09 -28 42 08.7	18.4 Rq-15ryH15	10064	C2014 06 20.30351 15 47 46.93 -30 08 09.8	15.8 Rq-15hPH15
E6935	C2014 06 20.25625 16 14 01.09 -29 22 28.0	17.6 Rq-15goH15	14510	C2014 06 20.30351 15 49 45.04 -30 04 36.2	16.2 Rq-15shH15
F3379	C2014 06 20.25625 16 10 06.78 -29 25 27.9	17.8 Rq-15jTH15	33732	C2014 06 20.30351 15 48 30.35 -30 25 49.8	17.4 Rq-15jeH15
e0033K06QA8T	C2014 06 20.25625 16 11 35.10 -29 27 03.9	18.8 Rq-15riH15	B9131	C2014 06 20.30351 15 46 43.98 -30 11 20.5	18.3 Rq-15pTH15
19723	C2014 06 20.26087 16 05 12.90 -30 50 47.9	19.0 Rq-15vxH15	D9214	C2014 06 20.30351 15 46 45.48 -31 25 13.2	16.7 Rq-15gZH15
36253	C2014 06 20.26087 16 05 29.30 -30 48 27.2	20.0 Rq-15yTH15	H3671	C2014 06 20.30351 15 49 10.82 -31 12 33.8	17.9 Rq-15sCH15
C5053	C2014 06 20.26087 16 03 48.16 -31 38 45.3	19.2 Rq-15diH15	10064	C2014 06 20.31358 15 47 46.44 -30 08 08.8	15.7 Rq-15hPH15
G8573	C2014 06 20.26087 16 05 25.29 -31 09 41.1	12.5 Rq-15fdH15	14510	C2014 06 20.31358 15 49 44.55 -30 04 33.4	16.2 Rq-15shH15
09581	C2014 06 20.26312 15 53 39.38 -28 32 46.2	17.1 Rq-15gYH15	33732	C2014 06 20.31358 15 48 29.99 -30 25 46.2	17.7 Rq-15jeH15
34823	C2014 06 20.26312 15 53 39.38 -28 32 46.2	20.3 Rq-15miH15	B9131	C2014 06 20.31358 15 46 43.59 -30 11 17.6	17.9 Rq-15pTH15
35675	C2014 06 20.26312 15 53 14.11 -30 00 56.2	18.9 Rq-15pQH15	D9214	C2014 06 20.31358 15 46 44.96 -31 25 16.5	16.5 Rq-15gZH15
40596	C2014 06 20.26312 15 56 43.74 -29 39 16.2	19.5 Rq-15qzH15	H3671	C2014 06 20.31358 15 49 10.52 -31 12 23.9	18.2 Rq-15sCH15
45467	C2014 06 20.26312 15 54 13.97 -28 52 40.3	17.8 Rq-15rHH15	F9473	C2014 06 21.17039 17 30 59.21 +19 10 13.4	18.0 Rq-15rVH15
E3333	C2014 06 20.26312 15 59 27.89 -29 49 32.7	19.2 Rq-15diH15	F9473	C2014 06 21.18053 17 30 58.63 +19 10 17.0	18.0 Rq-15hPH15
U2656	C2014 06 20.26312 15 58 01.27 -29 50 20.1	18.3 Rq-15iOH15	F9473	C2014 06 21.19160 17 30 58.03 +19 10 20.8	18.2 Rq-15rVH15
02432	C2014 06 20.26541 15 53 24.85 -30 06 08.2	18.2 Rq-15jshH15	F9473	C2014 06 21.20174 17 30 57.41 +19 10 24.3	18.3 Rq-15rVH15
88789	C2014 06 20.26541 15 56 02.72 -31 25 10.6	18.5 Rq-15pnH15	D3053	C2014 06 21.21514 17 44 49.99 +20 35 47.9	19.2 Rq-15gJH15
91196	C2014 06 20.26541 15 54 29.45 -31 42 28.2	18.4 Rq-15ryH15	D3053	C2014 06 21.23734 17 44 48.40 +20 35 48.1	19.2 Rq-15gJH15
C3390	C2014 06 20.26541 15 52 37.44 -30 52 30.5	16.4 Rq-15hMH15	D3053	C2014 06 21.24708 17 44 47.81 +20 35 49.8	18.7 Rq-15gJH15
Z3249	C2014 06 20.26541 15 54 42.29 -30 35 43.6	19.1 Rq-15jLH15	A8122	C2014 06 21.25157 17 51 54.95 +19 16 14.6	18.3 Rq-15oTH15
02494	C2014 06 20.26935 15 48 01.53 -29 14 55.5	18.7 Rq-15jPH15	91200	C2014 06 21.25375 17 51 45.29 +16 47 17.7	17.6 Rq-15nKH15
02747	C2014 06 20.26935 15 44 58.36 -28 48 44.0	19.0 Rq-15kEH15	66108	C2014 06 21.25602 17 48 28.95 +20 09 50.1	17.8 Rq-15mCH15
09143	C2014 06 20.26935 15 47 07.54 -28 32 51.4	17.5 Rq-15kCH15	A8122	C2014 06 21.26258 17 51 54.29 +19 16 17.7	18.5 Rq-15oTH15
43344	C2014 06 20.26935 15 48 34.08 -28 36 31.3	19.8 Rq-15goH15	91200	C2014 06 21.26473 17 51 44.73 +16 47 18.0	17.8 Rq-15nKH15
99049	C2014 06 20.26935 15 45 06.76 -29 11 48.8	19.9 Rq-15wVH15	66108	C2014 06 21.26696 17 48 28.21 +20 09 53.3	17.9 Rq-15mCH15
D2335	C2014 06 20.26935 15 4				

Астероидно-кометная опасность, № 14-7 (4)

C1222	C2014 06 23.21362 16 33 50.31 +29 27 15.3	18.8 Rq-15paH15	41309	C2014 06 25.35215 23 21 42.19 +08 16 34.4	19.0 Rq-15kIH15
C1222	C2014 06 23.22390 16 33 49.90 +29 27 08.3	18.8 Rq-15paH15	45122	C2014 06 25.35215 23 20 25.61 +09 36 09.0	19.2 Rq-15kbH15
38516	C2014 06 25.16705 17 32 14.57 +01 28 40.3	15.9 Rq-15k4H15	46231	C2014 06 25.35215 23 18 28.77 +08 25 22.7	18.5 Rq-15kgH15
40096	C2014 06 25.16705 17 31 16.36 +01 16 14.9	18.1 Rq-15kCH15	64431	C2014 06 25.35215 23 21 09.55 +08 06 23.9	19.6 Rq-15m4H15
68348	C2014 06 25.16927 17 33 18.49 +02 26 36.2	16.6 Rq-15mNH15	69964	C2014 06 25.35215 23 19 13.86 +08 26 42.7	19.8 Rq-15mUH15
I4285	C2014 06 25.16927 17 31 54.72 +03 28 41.2	18.1 Rq-15shH15	72629	C2014 06 25.35215 23 20 37.22 +08 36 28.9	19.5 Rq-15meH15
d8090	C2014 06 25.16927 17 31 38.22 +02 48 39.3	19.0 Rq-15yeH15	81890	C2014 06 25.35215 23 20 03.36 +08 36 04.1	18.4 Rq-15n8H15
I4285	C2014 06 25.17149 17 31 54.56 +03 28 42.6	18.0 Rq-15shH15	01666	C2014 06 25.35215 23 19 59.17 +07 53 11.7	19.8 Rq-17SBH15
38516	C2014 06 25.17662 17 32 14.14 +01 28 41.5	16.0 Rq-15k4H15	03556	C2014 06 25.35646 23 21 56.46 +07 30 38.4	18.5 Rq-15gYH15
40096	C2014 06 25.17662 17 31 15.91 +01 16 12.6	17.6 Rq-15kCH15	17559	C2014 06 25.35646 23 21 54.25 +07 39 05.2	18.4 Rq-15IBH15
68348	C2014 06 25.17931 17 33 17.15 +02 26 42.6	16.6 Rq-15mNH15	40171	C2014 06 25.35646 23 17 01.23 +06 34 30.5	18.6 Rq-15kCH15
I4285	C2014 06 25.17931 17 31 54.07 +03 28 46.6	17.8 Rq-15shH15	42268	C2014 06 25.35646 23 18 29.70 +06 34 02.0	19.7 Rq-15kOH15
d8090	C2014 06 25.17931 17 31 37.63 +02 48 32.9	19.0 Rq-15yeH15	66145	C2014 06 25.35646 23 17 57.52 +06 49 54.8	19.1 Rq-15mCH15
I4285	C2014 06 25.18157 17 31 53.93 +03 28 48.1	17.9 Rq-15shH15	69269	C2014 06 25.35646 23 18 24.57 +07 23 58.6	19.7 Rq-15mRH15
38516	C2014 06 25.18660 17 32 13.69 +01 28 42.7	15.9 Rq-15k4H15	31078	C2014 06 25.36218 23 19 37.85 +08 31 49.3	18.8 Rq-15jQH15
40096	C2014 06 25.18660 17 31 15.44 +01 16 10.3	17.7 Rq-15kCH15	41309	C2014 06 25.36218 23 21 42.49 +08 16 37.8	19.5 Rq-15kIH15
68348	C2014 06 25.19089 17 33 15.61 +02 26 50.1	16.2 Rq-15mNH15	46231	C2014 06 25.36218 23 18 28.95 +08 25 25.9	18.2 Rq-15kgH15
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d8090	C2014 06 25.19089 17 31 37.08 +02 48 26.9	19.0 Rq-15yeH15	69964	C2014 06 25.36218 23 19 14.14 +08 26 46.6	19.9 Rq-15mUH15
I4285	C2014 06 25.19317 17 31 53.14 +03 28 53.9	17.9 Rq-15shH15	72629	C2014 06 25.36218 23 20 37.48 +08 36 33.6	19.4 Rq-15meH15
38516	C2014 06 25.19766 17 32 13.18 +01 28 44.1	15.8 Rq-15k4H15	81890	C2014 06 25.36218 23 20 04.23 +08 36 08.1	18.7 Rq-15n8H15
40096	C2014 06 25.19766 17 31 14.92 +01 16 07.9	17.7 Rq-15kCH15	01666	C2014 06 25.36218 23 19 59.70 +07 53 18.5	19.8 Rq-17SBH15
68348	C2014 06 25.20051 17 33 14.25 +02 26 56.0	16.9 Rq-15mNH15	01546	C2014 06 25.36610 23 19 56.64 +06 47 36.6	16.3 Rq-15gSH15
I4285	C2014 06 25.20051 17 31 52.66 +03 28 57.3	18.1 Rq-15shH15	03556	C2014 06 25.36610 23 21 56.85 +07 30 43.2	18.4 Rq-15gYH15
I4285	C2014 06 25.20309 17 31 52.51 +03 28 59.1	18.3 Rq-15shH15	17559	C2014 06 25.36610 23 21 54.54 +07 39 10.5	18.7 Rq-15IBH15
06134	C2014 06 25.20997 17 37 41.94 +00 33 28.2	16.3 Rq-15gYH15	40171	C2014 06 25.36610 23 17 01.53 +06 34 32.7	18.4 Rq-15kCH15
T9083	C2014 06 25.20997 17 42 38.44 +00 28 30.9	19.2 Rq-15wLH15	66145	C2014 06 25.36610 23 17 57.85 +06 49 59.3	19.8 Rq-15mCH15
90810	C2014 06 25.21770 17 38 37.01 +02 16 50.5	19.7 Rq-15nIH15	69269	C2014 06 25.36610 23 18 25.16 +07 24 07.7	19.7 Rq-15mRH15
06134	C2014 06 25.21997 17 37 41.43 +00 33 27.8	15.9 Rq-15gYH15	13959	C2014 06 25.36838 23 21 42.77 +05 08 09.5	17.8 Rq-15hpH15
T9083	C2014 06 25.21997 17 42 37.93 +00 28 29.9	19.6 Rq-15wLH15	22898	C2014 06 25.36838 23 18 36.92 +05 56 21.8	19.5 Rq-15igH15
90810	C2014 06 25.22760 17 38 36.24 +02 16 53.6	19.4 Rq-15nIH15	24164	C2014 06 25.36838 23 17 45.22 +04 21 19.0	18.4 Rq-15inH15
T9083	C2014 06 25.22993 17 42 37.37 +00 28 27.5	19.8 Rq-15wLH15	29846	C2014 06 25.36838 23 18 42.05 +04 44 01.1	18.4 Rq-15jIH15
90810	C2014 06 25.23854 17 38 35.44 +02 16 58.5	19.2 Rq-15nIH15	45469	C2014 06 25.36838 23 21 09.74 +04 58 52.8	18.3 Rq-15kCH15
06134	C2014 06 25.24071 17 37 40.40 +00 33 27.0	16.1 Rq-15gYH15	60731	C2014 06 25.36838 23 17 28.20 +05 15 16.1	19.0 Rq-15L1H15
T9083	C2014 06 25.24071 17 42 36.77 +00 28 27.3	19.8 Rq-15wLH15	69096	C2014 06 25.36838 23 21 57.39 +04 56 39.6	19.8 Rq-15mRH15
K14M32S*	C2014 06 25.25084 17 43 42.06 +01 29 56.9	19.7 Rq-16L1H15	98253	C2014 06 25.36838 23 22 10.69 +05 13 39.6	19.7 Rq-15oJH15
	C2014 06 25.25312 17 46 28.36 +04 42 12.3	18.5 Rq-15u3H15	99826	C2014 06 25.36838 23 20 23.66 +05 04 44.8	19.9 Rq-15oQH15
L9535	C2014 06 25.25855 17 48 41.84 +02 04 01.1	18.1 Rq-15pNH15	M0850	C2014 06 25.36838 23 20 51.29 +05 08 34.4	19.8 Rq-15u6H15
B7617	C2014 06 25.26296 17 43 41.42 +01 29 55.3	19.3 Rq-16L1H15	01110	C2014 06 25.37064 23 25 29.04 +05 02 39.9	13.9 Rq-15fsH15
L9535	C2014 06 25.26524 17 46 27.47 +04 42 19.6	18.2 Rq-15u3H15	10443	C2014 06 25.37064 23 27 02.11 +05 20 53.2	17.9 Rq-15shH15
B7617	C2014 06 25.26972 17 48 41.26 +02 03 58.6	18.7 Rq-15pNH15	10956	C2014 06 25.37064 23 24 27.84 +04 49 37.2	19.7 Rq-15hVH15
K14M32S	C2014 06 25.27247 17 43 40.95 +01 29 52.8	19.2 Rq-16L1H15	12508	C2014 06 25.37064 23 25 51.21 +05 54 17.6	18.1 Rq-15hpH15
	C2014 06 25.27532 17 46 26.73 +04 42 25.2	18.4 Rq-15u3H15	15909	C2014 06 25.37064 23 26 06.06 +04 58 34.1	18.2 Rq-15i1H15
B7617	C2014 06 25.28035 17 48 40.74 +02 03 57.4	18.4 Rq-15pNH15	16504	C2014 06 25.37064 23 27 04.59 +05 17 22.8	18.2 Rq-15i4H15
K14M32S	C2014 06 25.28262 17 43 40.45 +01 29 50.4	19.1 Rq-16L1H15	16809	C2014 06 25.37064 23 28 14.47 +05 58 16.6	19.6 Rq-15i6H15
	C2014 06 25.28861 17 54 27.56 +00 14 55.4	16.5 Rq-15h2H15	22415	C2014 06 25.37064 23 25 16.37 +05 09 30.9	19.4 Rq-15ieH15
A7639	C2014 06 25.28861 17 54 09.07 +00 05 17.2	18.2 Rq-15oCH15	26339	C2014 06 25.37064 23 25 43.31 +04 42 16.2	19.1 Rq-15ixH15
D6984	C2014 06 25.28861 17 55 04.13 +00 23 28.4	17.9 Rq-15qVH15	32136	C2014 06 25.37064 23 24 26.27 +04 59 07.6	18.6 Rq-15jVH15
P8630	C2014 06 25.29314 17 55 56.36 +04 39 51.7	19.2 Rq-15vSH15	40217	C2014 06 25.37064 23 24 25.11 +05 43 08.9	19.7 Rq-15kDH15
06711	C2014 06 25.29862 17 54 27.01 +00 14 55.1	16.5 Rq-15h2H15	46906	C2014 06 25.37064 23 27 43.30 +05 59 28.5	19.9 Rq-15kIH15
A7639	C2014 06 25.29862 17 54 08.56 +00 05 15.3	18.9 Rq-15oCH15	63881	C2014 06 25.37064 23 27 37.29 +04 56 57.7	19.3 Rq-15mLH15
D6984	C2014 06 25.29862 17 55 03.57 +00 23 28.4	17.9 Rq-15qVH15	79937	C2014 06 25.37064 23 26 00.49 +05 23 44.1	18.6 Rq-15nIH15
91806	C2014 06 25.30084 17 53 48.88 +03 06 50.0	19.4 Rq-15noH15	B3190	C2014 06 25.37064 23 28 08.30 +06 03 52.0	18.6 Rq-15p9H15
P8630	C2014 06 25.30306 17 55 55.95 +04 39 49.5	19.5 Rq-15vSH15	C2249	C2014 06 25.37064 23 28 00.09 +05 02 59.6	19.2 Rq-15peH15
24749	C2014 06 25.30534 17 57 17.15 +06 05 42.4	17.3 Rq-15ipH15	C8449	C2014 06 25.37064 23 25 27.02 +05 24 18.8	19.9 Rq-15qLH15
06711	C2014 06 25.30898 17 54 26.45 +00 14 55.3	16.6 Rq-15h2H15	G9414	C2014 06 25.37064 23 26 48.38 +04 47 27.2	19.4 Rq-15rzH15
A7639	C2014 06 25.30898 17 54 07.97 +00 05 13.7	19.0 Rq-15oCH15	L2289	C2014 06 25.37064 23 26 22.67 +05 59 14.5	19.4 Rq-15t1H15
D6984	C2014 06 25.30898 17 55 02.98 +00 23 29.0	18.1 Rq-15qVH15	14901	C2014 06 25.37287 23 23 49.07 +06 44 48.0	17.1 Rq-15hVH15
91806	C2014 06 25.31126 17 53 48.47 +03 06 49.3	19.3 Rq-15noH15	29670	C2014 06 25.37287 23 28 04.44 +06 18 23.0	17.9 Rq-15jGH15
P8630	C2014 06 25.31355 17 55 55.26 +04 39 48.2	19.8 Rq-15vSH15	32371	C2014 06 25.37287 23 28 49.01 +07 23 30.9	18.7 Rq-15jXH15
24749	C2014 06 25.31576 17 57 16.64 +06 05 42.3	17.5 Rq-15ipH15	42723	C2014 06 25.37287 23 25 19.11 +07 28 38.4	19.1 Rq-15kQH15
06711	C2014 06 25.31885 17 54 25.91 +00 14 55.2	16.5 Rq-15h2H15	52268	C2014 06 25.37287 23 26 29.91 +06 31 16.2	19.6 Rq-15L1H15
A7639	C2014 06 25.31885 17 54 07.46 +00 05 11.7	18.6 Rq-15oCH15	71115	C2014 06 25.37287 23 27 04.12 +07 46 37.5	19.9 Rq-15m2H15
D6984	C2014 06 25.31885 17 55 02.42 +00 23 29.8	18.1 Rq-15qVH15	82436	C2014 06 25.37287 23 26 50.90 +06 38 43.7	19.0 Rq-15nAH15
91806	C2014 06 25.32118 17 53 48.00 +03 06 49.3	19.6 Rq-15noH15	92062	C2014 06 25.37287 23 26 12.51 +06 34 49.4	20.2 Rq-15nqH15
24749	C2014 06 25.32584 17 57 16.18 +06 05 42.9	17.4 Rq-15ipH15	A5192	C2014 06 25.37287 23 29 29.16 +07 36 43.4	19.7 Rq-15ohH15
31078	C2014 06 25.33214 23 19 37.16 +08 31 32.8	19.0 Rq-15jQH15	B8793	C2014 06 25.37287 23 25 53.01 +06 44 50.4	19.6 Rq-15pRH15
41309	C2014 06 25.33214 23 21 41.54 +08 16 26.6	19.2 Rq-15kIH15	50734	C2014 06 25.37515 23 25 18.35 +09 23 34.9	18.9 Rq-15kzH15
45122	C2014 06 25.33214 23 20 24.95 +09 35 59.1	19.2 Rq-15kbH15	67137	C2014 06 25.37515 23 25 43.32 +08 03 02.2	20.4 Rq-15mHH15
46231	C2014 06 25.33214 23 18 28.39 +08 25 16.1	18.9 Rq-15kgH15	A9865	C2014 06 25.37515 23 28 30.20 +08 51 16.4	19.0 Rq-15oyH15
64431	C2014 06 25.33214 23 21 08.86 +08 06 11.6	19.3 Rq-15m4H15	E6346	C2014 06 25.37515 23 26 24.71 +07 56 24.6	20.0 Rq-15qWH15
69964	C2014 06 25.33214 23 19 13.33 +08 26 33.6	19.9 Rq-15mUH15	P2593	C2014 06 25.37515 23 28 27.93 +09 09 18.6	20.0 Rq-15vcCH15
72629	C2014 06 25.33214 23 20 36.69 +08 36 19.4	18.9 Rq-15meH15	13959	C2014 06 25.37955 23 21 43.22 +05 08 12.4	18.0 Rq-15hpH15
81890	C2014 06 25.33214 23 20 01.64 +08 35 55.7	18.8 Rq-15n8H15	22898	C2014 06 25.37955 23 18 37.30 +05 56 24.6	19.1 Rq-15igH15
01546	C2014 06 25.33436 23 19 55.97 +06 47 30.9	16.4 Rq-15gSH15	24164	C2014 06 25.37955 23 17 45.56 +04 21 23.9	18.4 Rq-15inH15
03556	C2014 06 25.33436 23 21 55.59 +07 30 27.5	18.5 Rq-15gYH15	29846	C2014 06 25.37955 23 18 42.43 +04 44 05.2	18.4 Rq-15jIH15
17559	C2014 06 25.33436 23 21 53.52 +07 38 54.0	19.5 Rq-15IBH15	45469	C2014 06 25.37955 23 21 10.11 +04 58 58.4	18.4 Rq-15kCH15
40171	C2014 06 25.33436 23 17 00.46 +06 34 25.6	18.5 Rq-15kCH15	60731	C2014 06 25.37955 23 17 29.10 +05 15 23.5	19.1 Rq-15L1H15
42268	C2014 06 25.33436 23 18 29.04 +06 33 53.3	19.8 Rq-15kOH15	98253	C2014 06 25.37955 23 22 11.08 +05 13 46.0	19.9 Rq-15oJH15
66145	C2014 06 25.33436 23 17 56.69 +06 49 45.6	19.4 Rq-15mCH15	99826	C2014 06 25.37955 23 20 23.85 +05 04 50.2	19.8 Rq-15oQH15
69269	C2014 06 25.33436 23 18 23.08 +07 23 39.3	20.1 Rq-15mRH15	D8336	C2014 06 25.37955 23 20 28.63 +05 46 29.9	20.4 Rq-15qXH15
31078	C2014 06 25.34219 23 19 37.35 +08 31 38.5	18.4 Rq-15jQH15	M0850	C2014 06 25.37955 23 20 51.69 +05 08 38.2	20.2 Rq-15u6H15
45122	C2014 06 25.34219 23 20 25.30 +09 36 03.7	19.5 Rq-15kbH15	01110	C2014 06 25.38184 23 25 30.05 +05 02 49.7	

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A0164	C2014 06 25.38184 23 24 05.21 +04 32 13.9	20.1 Rq-15oSH15	42723	C2014 06 25.40568 23 25 19.98 +07 28 49.3	19.0 Rq-15kQH15
B3190	C2014 06 25.38184 23 28 09.24 +06 04 00.7	18.5 Rq-15p9H15	52268	C2014 06 25.40568 23 26 31.44 +06 31 35.1	19.7 Rq-15l4H15
C2249	C2014 06 25.38184 23 28 00.79 +05 03 05.2	19.4 Rq-15peH15	71115	C2014 06 25.40568 23 27 04.84 +07 46 49.2	20.3 Rq-15m2H15
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P2593	C2014 06 25.38640 23 28 28.57 +09 09 27.1	19.6 Rq-15vCH15	14729	C2014 06 26.16926 15 49 14.98 -25 54 41.8	17.8 Rq-15huH15
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22898	C2014 06 25.38919 23 18 37.65 +05 56 28.6	19.3 Rq-15igH15	36175	C2014 06 26.16926 15 49 02.13 -26 56 09.3	18.5 Rq-15jsH15
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45469	C2014 06 25.38919 23 21 10.44 +04 59 03.4	18.3 Rq-15kdH15	55695	C2014 06 26.16926 15 47 11.25 -25 56 11.3	18.8 Rq-15lMH15
60731	C2014 06 25.38919 23 27 29.86 +05 15 30.4	19.1 Rq-15l1H15	63421	C2014 06 26.16926 15 50 06.09 -25 48 07.6	18.4 Rq-15l2H15
69096	C2014 06 25.38919 23 21 57.76 +04 56 51.4	19.1 Rq-15mRH15	73660	C2014 06 26.16926 15 50 36.56 -26 14 48.6	19.4 Rq-15mhH15
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M0850	C2014 06 25.38919 23 20 52.05 +05 08 42.5	19.8 Rq-15u6H15	H3161	C2014 06 26.16926 15 48 48.55 -25 26 44.6	19.6 Rq-15sBH15
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10443	C2014 06 25.39182 23 27 03.53 +05 21 04.2	17.8 Rq-15shH15	43344	C2014 06 26.17146 15 45 18.20 -28 05 38.7	18.2 Rq-15kTH15
12508	C2014 06 25.39182 23 25 52.56 +05 54 31.1	18.3 Rq-15hgH15	97119	C2014 06 26.17146 15 52 35.13 -27 58 09.0	18.6 Rq-15oEH15
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79937	C2014 06 25.39182 23 26 01.31 +05 23 59.8	19.1 Rq-15n1H15	14786	C2014 06 26.17373 15 55 10.83 -25 18 37.0	17.4 Rq-15huH15
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B8793	C2014 06 25.39409 23 25 53.88 +06 44 57.5	20.0 Rq-15pRH15	67237	C2014 06 26.17654 15 39 28.23 -25 57 28.1	18.7 Rq-15mHH15
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24164	C2014 06 25.39911 23 17 46.18 +04 51 33.2	18.1 Rq-15inH15	14729	C2014 06 26.17933 15 49 14.65 -25 54 40.4	17.7 Rq-15huH15
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26339	C2014 06 25.40340 23 25 44.32 +04 42 31.6	19.4 Rq-15ixH15	T6		

Астероидно-кометная опасность, № 14-7 (4)

06721	C2014 06 26.18720 15 37 26.09 -26 36 14.3	16.3 Rq-15h3H15	06721	C2014 06 26.21546 15 37 24.89 -26 36 17.8	16.5 Rq-15h3H15
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H3161	C2014 06 26.19155 15 48 47.76 -25 26 38.9	19.7 Rq-15sBH15	15168	C2014 06 26.22525 15 32 14.43 -26 45 11.8	17.9 Rq-15hwH15
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97119	C2014 06 26.19437 15 52 34.37 -27 58 07.8	18.5 Rq-15oEH15	50173	C2014 06 26.22525 15 33 34.20 -26 32 03.3	18.8 Rq-15kvH15
C2487	C2014 06 26.19437 15 50 52.37 -27 42 18.6	19.2 Rq-15pFH15	62189	C2014 06 26.22525 15 37 07.31 -25 52 49.3	19.0 Rq-15lctH15
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14786	C2014 06 26.19799 15 55 09.97 -25 18 38.7	17.8 Rq-15huH15	37108	C2014 06 26.22919 15 58 31.28 -27 12 02.3	18.7 Rq-15jxH15
26946	C2014 06 26.19799 15 55 55.09 -25 48 24.5	18.1 Rq-15j1H15	57259	C2014 06 26.22919 15 58 27.38 -27 44 19.8	19.1 Rq-15lUH15
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46961	C2014 06 26.19799 15 56 40.27 -26 25 34.6	17.6 Rq-15kjH15	02747	C2014 06 26.23140 15 41 54.54 -28 29 08.7	16.1 Rq-15goH15
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88954	C2014 06 28.16936 15 12 04.18 -26 21 59.0	18.4 Rq-15naH15	F2489	C2014 06 28.29296 21 10 39.50 -25 52 29.8	19.0 Rq-168AH15
J7964	C2014 06 28.16936 15 07 53.59 -25 20 55.2	18.0 Rq-15t7H15	C1944	C2014 06 28.29296 21 09 34.18 -26 41 03.0	19.8 Rq-167EH15
K8182	C2014 06 28.16936 15 13 45.59 -25 13 27.9	19.6 Rq-15tYH15	L5959	C2014 06 28.29296 21 07 11.78 -26 06 01.1	19.0 Rq-169pH15
06563	C2014 06 28.17390 15 02 22.56 -25 58 43.3	17.8 Rq-15h1H15	01054	C2014 06 28.29296 21 09 58.19 -25 40 26.9	14.0 Rq-161LH15
78341	C2014 06 28.17390 15 05 18.01 -26 23 10.7	19.1 Rq-15mwH15	45683	C2014 06 28.29296 21 12 27.56 -25 35 17.3	17.3 Rq-164HH15
09580	C2014 06 28.17647 15 09 35.29 -23 32 46.1	17.7 Rq-15hMH15	C6460	C2014 06 28.29882 21 00 05.01 -26 10 51.8	18.4 Rq-167NH15
51770	C2014 06 28.17647 15 13 43.12 -24 53 45.1	18.6 Rq-15l3H15	07031	C2014 06 28.29882 21 00 27.79 -25 15 13.3	17.3 Rq-162BH15
93585	C2014 06 28.17647 15 09 09.62 -23 46 06.5	18.6 Rq-15nwH15	08645	C2014 06 28.29882 21 04 34.78 -25 12 37.5	16.9 Rq-162HH15
e3865K11V130	C2014 06 28.17647 15 11 51.74 -23 45 47.2	19.1 Rq-15ePH15	15441	C2014 06 28.29882 21 05 29.96 -25 39 06.7	19.0 Rq-162mH15
28277	C2014 06 28.17916 15 08 46.96 -25 43 14.2	18.2 Rq-15j8H15	16658	C2014 06 28.29882 21 01 01.14 -25 16 55.2	17.8 Rq-162LH15
30333					

Астероидно-кометная опасность, № 14-7 (4)

86529	C2014 06 28.30331 21 07 41.65 -25 37 48.1	17.9 Rq-165wH15	e0466K08G04J	C2014 06 29.25109 17 26 11.81 +09 41 12.3	19.3 Rq-15zQH15
45683	C2014 06 28.30331 21 12 27.56 -25 35 21.4	17.5 Rq-164HH15	C0863	C2014 06 29.25331 17 28 04.87 +12 04 37.6	19.9 Rq-167BH15
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36081	C2014 06 28.30331 21 12 53.75 -26 42 44.7	17.6 Rq-163mH15	d5100	C2014 06 29.26611 17 16 23.38 +10 32 32.6	19.7 Rq-16DGH15
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08645	C2014 06 28.31012 21 04 34.46 -25 12 40.0	17.0 Rq-162HH15	C0863	C2014 06 29.28480 17 28 03.39 +12 04 29.5	19.5 Rq-167BH15
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75920	C2014 06 28.31012 21 05 11.47 -26 25 07.4	18.0 Rq-165ZH15	S6864	C2014 06 29.29914 17 26 53.09 +15 36 43.3	19.5 Rq-16BAH15
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O8777	C2014 06 28.31012 20 59 57.77 -26 52 53.4	18.5 Rq-16AUH15	04008	C2014 06 29.30965 17 26 08.93 +15 45 13.6	17.1 Rq-161zH15
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J2546	C2014 06 28.31012 21 03 06.83 -26 43 36.4	19.7 Rq-169FH15	S6864	C2014 06 29.31946 17 26 52.10 +15 36 33.3	19.2 Rq-16BAH15
d9913	C2014 06 28.31012 21 00 47.84 -26 08 43.7	19.2 Rq-16WBH15	K14HD3A	C2014 06 29.31946 17 28 07.65 +15 30 01.3	18.8 Rq-160EH15
H9285	C2014 06 28.31238 21 03 26.84 -28 07 40.8	19.4 Rq-168WH15	04008	C2014 06 29.31946 17 26 08.41 +15 45 10.2	17.0 Rq-161zH15
00172	C2014 06 28.31238 21 01 50.24 -28 04 40.0	10.8 Rq-161gH15	Z4468	C2014 06 30.31003 19 46 30.45 -02 15 13.2	19.3 Rq-16CUH15
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37203	C2014 06 28.31238 21 03 10.56 -27 46 58.0	16.4 Rq-163gH15	K09P05G	C2014 06 30.31231 19 50 57.31 -06 48 34.8	19.7 Rq-15zXH15
L8444	C2014 06 28.31238 21 00 07.68 -28 09 14.7	19.1 Rq-169tH15	59433	C2014 06 30.31231 19 49 43.34 -06 23 11.3	16.1 Rq-164gH15
95301	C2014 06 28.31238 21 05 16.70 -27 34 08.6	19.2 Rq-166UH15	C9687	C2014 06 30.31231 19 50 22.15 -05 48 28.4	18.3 Rq-167UH15
98167	C2014 06 28.31238 20 59 14.96 -27 14 32.5	17.8 Rq-166RH15	I8163	C2014 06 30.31231 19 49 55.15 -06 36 46.3	19.5 Rq-169AH15
A3104	C2014 06 28.31238 21 01 11.32 -27 50 18.8	18.8 Rq-166BH15	e0678K09P05G	C2014 06 30.31231 19 50 37.31 -06 48 34.8	19.7 Rq-15zXH15
H0958	C2014 06 28.31238 21 01 53.32 -27 20 35.4	19.3 Rq-168gH15	K05EE4O	C2014 06 30.31231 19 50 46.66 -06 07 00.3	19.3 Rq-16DUH15
Z3663	C2014 06 28.31238 21 02 08.25 -27 54 48.5	19.7 Rq-16CTH15	27467	C2014 06 30.31686 19 50 24.99 -00 21 01.7	17.8 Rq-163LH15
53885	C2014 06 28.31238 21 04 03.11 -27 09 07.8	19.0 Rq-164aH15	F4241	C2014 06 30.31938 19 49 45.51 -02 17 45.3	18.2 Rq-168DH15
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C9448	C2014 06 28.31238 21 05 42.99 -27 19 05.9	19.5 Rq-167UH15	Z4468	C2014 06 30.31938 19 46 30.05 -02 15 14.5	19.5 Rq-16CUH15
45810	C2014 06 28.31465 21 08 25.13 -25 23 24.6	17.5 Rq-164HH15	15604	C2014 06 30.31938 19 48 43.27 -03 26 04.6	16.0 Rq-162hH15
86529	C2014 06 28.31465 21 07 41.45 -25 37 50.0	17.7 Rq-165wH15	40528	C2014 06 30.31938 19 51 49.31 -03 19 43.0	18.2 Rq-1640H15
F2489	C2014 06 28.31465 21 10 39.11 -25 52 35.6	18.8 Rq-168AH15	51732	C2014 06 30.31938 19 51 52.24 -03 25 37.8	17.3 Rq-164VH15
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15314	C2014 06 28.31465 21 14 34.44 -25 19 00.0	18.7 Rq-162gH15	07158	C2014 06 30.32378 19 51 55.12 -06 15 24.2	17.1 Rq-162CH15
36081	C2014 06 28.31465 21 12 53.43 -26 42 46.7	17.8 Rq-163mH15	42130	C2014 06 30.32378 19 49 40.80 -06 00 52.9	18.1 Rq-164GH15
45683	C2014 06 28.31465 21 12 27.50 -25 35 25.5	17.3 Rq-164HH15	C9687	C2014 06 30.32378 19 50 21.66 -05 48 27.8	18.5 Rq-167UH15
61828	C2014 06 28.31465 21 09 25.83 -26 40 35.0	19.2 Rq-164YH15	I8163	C2014 06 30.32378 19 49 34.63 -06 36 47.7	19.4 Rq-169AH15
Q1669	C2014 06 28.31465 21 08 10.11 -25 36 56.9	19.1 Rq-16AwH15	e0678K09P05G	C2014 06 30.32378 19 50 56.81 -06 48 37.0	20.1 Rq-15zXH15
C1944	C2014 06 28.31465 21 09 33.79 -26 41 16.4	19.8 Rq-167EH15	K05EE4O	C2014 06 30.32378 19 50 46.21 -06 07 03.2	19.6 Rq-160UH15
33591	C2014 06 28.31465 21 12 52.73 -26 25 30.6	18.4 Rq-163GH15	27467	C2014 06 30.32829 19 50 24.45 -00 21 00.0	17.8 Rq-163LH15
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O8777	C2014 06 28.32032 20 59 57.70 -26 52 56.4	18.7 Rq-16AUH15	40528	C2014 06 30.33051 19 51 48.82 -03 19 44.4	18.4 Rq-1640H15
08645	C2014 06 28.32032 21 04 34.17 -25 12 42.5	16.9 Rq-162HH15	F4241	C2014 06 30.33051 19 49 45.09 -02 17 47.6	18.7 Rq-168DH15
15441	C2014 06 28.32032 21 05 29.28 -25 39 13.5	19.5 Rq-162hH15	Z4468	C2014 06 30.33051 19 46 29.53 -02 15 17.1	19.2 Rq-16CUH15
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J2546	C2014 06 28.32032 21 03 06.85 -26 43 40.9	19.8 Rq-169FH15	07158	C2014 06 30.33307 19 51 54.72 -06 15 23.9	17.1 Rq-162CH15
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d9913	C2014 06 28.32032 21 00 47.61 -26 08 46.2	19.1 Rq-16WBH15	e0678K09P05G	C2014 06 30.33307 19 50 56.37 -06 48 37.2	20.3 Rq-15zXH15
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10940	C2014 06 28.32259 21 03 31.27 -27 02 28.6	15.8 Rq-162QH15	40528	C2014 06 30.34042 19 51 48.45 -03 19 45.3	18.0 Rq-1640H15
21888	C2014 06 28.32259 21 02 26.01 -27 45 56.4	17.6 Rq-1633H15	51732	C2014 06 30.34042 19 51 51.25 -03 25 34.5	17.3 Rq-164WH15
27474	C2014 06 28.32259 21 03 16.02 -27 10 39.7	17.3 Rq-163LH15	F4241	C2014 06 30.34042 19 49 44.64 -02 17 49.4	18.7 Rq-168DH15
37203	C2014 06 28.32259 21 03 10.35 -27 47 02.9	16.5 Rq-163gH15	Z4468	C2014 06 30.34042 19 46 29.03 -02 15 19.0	19.2 Rq-16CUH15
95301	C2014 06 28.32259 21 05 16.41 -27 34 10.8	19.7 Rq-166UH15	L3051	C2014 06 30.34042 19 49 42.91 -02 58 05.1	19.3 Rq-169JH15
98167	C2014 06 28.32259 20 59 14.81 -27 14 37.3	18.0 Rq-166RH15	07158	C2014 06 30.34293 19 51 54.32 -06 15 23.6	17.1 Rq-162CH15
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C9448	C2014 06 28.32259 21 05 42.82 -27 19 11.2	19.6 Rq-167UH15	C9687	C2014 06 30.34293 19 50 20.89 -05 48 26.4	18.5 Rq-167UH15
H9285	C2014 06 28.32259 21 03 26.53 -28 07 42.0	19.5 Rq-168WH15	e0678K09P05G	C2014 06 30.34293 19 50 56.01 -06 48 37.7	19.9 Rq-15zXH15
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15314	C20				

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47660	C2014 06 30.36241 19 56 56.53 -04 24 36.7	18.0 Rq-164MH15	57299	C2014 06 30.39878 20 09 06.88 -06 22 16.4	18.8 Rq-164KH15
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Астероидно-кометная опасность, № 14-7 (4)

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7-я лунация, 11.06.14 – 08.07.14

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25502	C2014 07 04.39507 00 00 36.70 +10 56 33.6	18.7 Rq-163FH15	95806	C2014 07 04.41822 00 07 38.58 +09 34 43.8	18.6 Rq-166LH15
47464	C2014 07 04.39507 00 02 31.90 +10 14 03.2	18.6 Rq-164LH15	21367	C2014 07 04.41822 00 12 09.00 +09 22 29.1	19.1 Rq-163IH15
15042	C2014 07 04.39507 00 00 21.49 +10 43 02.6	18.3 Rq-162FH15	20674	C2014 07 04.41822 00 10 39.10 +08 44 16.5	18.3 Rq-162yH15
98935	C2014 07 04.39507 00 02 49.79 +11 24 17.6	18.1 Rq-166TH15	43286	C2014 07 04.41822 00 09 23.27 +09 22 46.1	18.1 Rq-164AH15
B3982	C2014 07 04.39507 00 04 05.49 +11 42 36.8	19.1 Rq-166yH15	71326	C2014 07 04.41822 00 09 33.77 +09 53 08.0	19.0 Rq-165PH15
B4294	C2014 07 04.39507 00 05 38.35 +11 04 59.3	19.7 Rq-166yH15	92050	C2014 07 04.42083 23 58 22.06 +10 42 21.0	20.1 Rq-166AH15
67131	C2014 07 04.39507 00 00 52.95 +11 41 51.0	17.7 Rq-165DH15	04493	C2014 07 04.42083 23 57 53.54 +10 36 21.9	16.2 Rq-1622H15
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92566	C2014 07 04.39734 00 10 43.92 +09 10 00.8	18.8 Rq-166CH15	23950	C2014 07 04.42083 23 55 41.79 +10 17 20.2	18.8 Rq-163AH15
16537	C2014 07 04.39734 00 09 53.40 +09 34 38.5	18.1 Rq-162KH15	L7804	C2014 07 04.42083 23 56 13.66 +10 34 49.2	20.2 Rq-169tH15
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18680	C2014 07 04.39734 00 08 17.42 +08 33 50.5	19.0 Rq-162SH15	A8615	C2014 07 04.42083 23 55 29.02 +11 02 09.5	19.0 Rq-166OH15
21160	C2014 07 04.39734 00 09 28.23 +08 16 49.4	18.3 Rq-163OH15	D3170	C2014 07 04.42083 23 55 53.24 +10 30 50.4	19.3 Rq-167CH15
21367	C2014 07 04.39734 00 12 08.45 +09 22 24.8	18.7 Rq-163IH15	H2294	C2014 07 04.42083 23 58 22.70 +10 07 54.9	19.6 Rq-168IH15
58630	C2014 07 04.39734 00 12 21.49 +09 36 23.1	19.6 Rq-164hH15	G0932	C2014 07 04.42351 00 04 51.04 +09 17 41.8	20.1 Rq-168NH15
95806	C2014 07 04.39734 00 07 37.82 +09 34 27.7	18.9 Rq-166LH15	01721	C2014 07 04.42351 00 03 28.54 +09 53 44.7	16.1 Rq-161pH15
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20674	C2014 07 04.39734 00 10 38.37 +08 44 11.0	17.9 Rq-162yH15	10648	C2014 07 04.42351 00 03 23.73 +08 33 34.1	18.1 Rq-162PH15
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D3170	C2014 07 04.40025 23 55 52.46 +10 30 46.9	19.5 Rq-167CH15	86230	C2014 07 04.42351 00 02 22.20 +09 44 21.6	19.0 Rq-165vH15
04493	C2014 07 04.40025 23 57 52.95 +10 36 13.2	16.1 Rq-162ZH15	D8275	C2014 07 04.42351 00 03 48.29 +09 44 34.6	18.9 Rq-167KH15
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92050	C2014 07 04.40025 23 58 21.45 +10 42 14.3	20.1 Rq-166AH15	15042	C2014 07 04.42573 00 00 22.95 +10 43 30.4	18.0 Rq-162FH15
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60728	C2014 07 04.40248 00 03 45.63 +09 57 53.0	19.3 Rq-164uH15	20966	C2014 07 04.42573 00 02 22.74 +10 59 20.4	19.

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