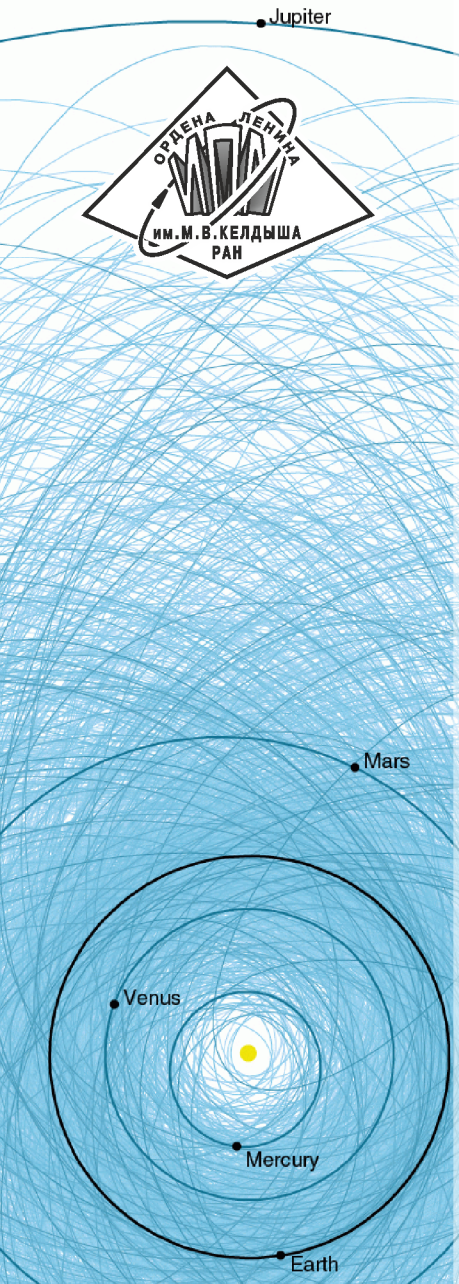
ОРДЕНА ЛЕНИНА
ИНСТИТУТ ПРИКЛАДНОЙ МАТЕМАТИКИ
ИМЕНИ М.В. КЕЛДЫША
РОССИЙСКОЙ АКАДЕМИИ НАУК

Бюллетень № 14-8 (5)

8-я лунация 2014 г.
09.07.14 – 07.08.14



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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I. ОБЩАЯ СТАТИСТИКА ИЗМЕРЕНИЙ МАЛЫХ ТЕЛ СОЛНЕЧНОЙ СИСТЕМЫ

№	Код MPC	Измерений	Объектов	Открыто	Обсерватория
1.	F51	543917	68848	11282	Pan-STARRS 1
2.	G45	93545	14146	3	Space Surveillance Telescope
3.	C51	31438	1309	21	WISE
4.	691	23798	5588	23	Spacewatch
5.	G96	23446	3067	27	Mt. Lemmon Survey
6.	Y00	21612	4856	9	SONEAR Observatory
7.	703	5878	1318	6	Catalina Sky Survey
8.	J43	5598	1027	15	Oukaimeden Observatory
9.	G32	4358	596	113	Elena Remote Observatory
10.	**H15**	**4255**	**1143**	**0**	**ISON-NM Observatory**
11.	I41	3496	614	10	Palomar Mountain--PTF
12.	**D00**	**2692**	**696**	**0**	**ISON-Kislovodsk Observatory**
13.	644	2297	414	12	Palomar Mountain/NEAT
14.	J04	1977	527	104	ESA Optical Ground Station
15.	950	1795	287	18	La Palma
16.	H21	1633	218	3	Astronomical Research Observatory
17.	291	1187	367	0	LPL/Spacewatch II
18.	194	1043	329	26	Tivoli
19.	461	1014	224	9	University of Szeged Konkoly)
20.	C41	842	217	0	MASTER-II Observatory, Kislovodsk
21.	W86	674	133	3	Cerro Tololo-LCOGT B
22.	568	653	180	2	Mauna Kea
23.	807	635	190	0	Cerro Tololo Observatory
24.	E12	617	114	0	Siding Spring Survey
25.	071	573	54	0	NAO Rozhen
26.	Q62	533	142	2	iTelescope Observatory, Siding Spring
27.	645	524	239	0	Apache Point-Sloan Digital Sky Survey
28.	W87	454	100	2	Cerro Tololo-LCOGT C
29.	695	449	134	0	Kitt Peak
30.	W84	417	61	6	Cerro Tololo-DECam
185.	**A50**	**3**	**1**	**0**	**Andrushivka Astronomical Observatory**

II. ОБЩАЯ СТАТИСТИКА ПО КОЛИЧЕСТВУ ОТКРЫТЫХ ОБЪЕКТОВ

№	Код MPC	Измерений	Объектов	Открыто	Обсерватория
1.	F51	543917	68848	11282	Pan-STARRS 1, Haleakala
2.	G32	4358	596	113	Elena Remote Observatory
3.	J04	1977	527	104	ESA Optical Ground Station
4.	G96	23446	3067	27	Mt. Lemmon Survey
5.	194	1043	329	26	Tivoli
6.	691	23798	5588	23	Spacewatch
7.	C51	31438	1309	21	WISE
8.	950	1795	287	18	La Palma
9.	J43	5598	1027	15	Oukaimeden Observatory
10.	644	2297	414	12	Palomar Mountain/NEAT
11.	I41	3496	614	10	Palomar Mountain--PTF
	J75	150	36	10	OAM Observatory, La Sagra
12.	461	1014	224	9	University of Szeged (Konkoly)
	Y00	21612	4856	9	SONEAR Observatory
13.	W84	417	61	6	Cerro Tololo-DECam
	703	5878	1318	6	Catalina Sky Survey
14.	C85	49	5	4	Observatorio Cala d'Hort
15.	G45	93545	14146	3	Space Surveillance Telescope
	H21	1633	218	3	Astronomical Research Observatory
	W86	674	133	3	Cerro Tololo-LCOGT B
16.	G37	140	69	2	Discovery Channel Telescope
	K92	118	28	2	Sutherland-LCOGT B
	568	653	180	2	Mauna Kea
	Q62	533	142	2	iTelescope Observatory, Siding Spring
	I93	128	38	2	St Pardon de Conques
	W87	454	100	2	Cerro Tololo-LCOGT C
17.	A13	45	19	1	Observatoire Naef
	K91	104	25	1	Sutherland-LCOGT A
	I52	82	18	1	Mt. Lemmon Station
	954	16	3	1	Teide Observatory
	D03	42	11	1	Rantiga Osservatorio
	B74	37	7	1	Santa Maria de Montmagastrell

III. СТАТИСТИКА ПО ОТКРЫТЫМ АСЗ

	Количество	Потенциально опасные	Атира	Атоны	Аполлонцы	Амуры
Лунация	63	6	0	1	34	28
Всего	**11 345**	**1 513**	**21**	**853**	**5 642**	**4 829**

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 OP2	2014-07-24.34233	200 500	0.0010	11.857	18.1R	29.1	3-8	157.6	-0.75332	Аполлон
2014 OM207	2014-07-25.24828	270 800	0.0020	7.7576	20.3W	29.1	3-8	126.3	-1.33739	Амур

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 OP2

```
Эпоха 2014 декабрь 9.0 TT = JDT 2457000.5
M  42.65650            (2000.0)            P              Q
n   0.25670330     Peri.  141.53724     -0.10685122     +0.99381548          T = 2456834.32958 JDT
a   2.4519696      Node   122.30955     -0.92084964     -0.08744935          q = 0.9372509
e   0.6177559      Incl.    2.04951     -0.37499169     -0.06843539        MOID = 0.00103 a.e.
П   3.84           H   29.1           G   0.15           U   5
```

2014 OM207

```
Эпоха 2014 декабрь 9.0 TT = JDT 2457000.5
M  37.86326            (2000.0)            P              Q
n   0.26025581     Peri.  168.64113     +0.36502412     +0.93041341          T = 2456855.01523 JDT
a   2.4296055      Node   122.76009     -0.85721791     +0.34971000          q = 1.0110547
e   0.5838605      Incl.    2.24820     -0.36322837     +0.10969866        MOID = 0.00203 a.e.
П   3.79           H   29.1           G   0.15           U   6
```

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*
2010 LE15	PHA	2014-08-01	2014-08-01	Аресибо	330	0.070↓	0.070↓	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-Kislovodsk (D00)

```
c7746          C2014 07 21.91804 21 08 41.64 -05 16 40.6          18.3 Vq~16ZsD00
c7746          C2014 07 21.92889 21 08 40.28 -05 16 44.7          18.4 Vq~16ZsD00
c7746          C2014 07 21.93972 21 08 38.91 -05 16 50.0          19.3 Vq~16ZsD00
c7746          C2014 07 21.95054 21 08 37.53 -05 16 53.8          19.6 Vq~16ZsD00
d9611          C2014 07 25.96604 23 10 58.62 -03 45 33.8          19.5 Vq~1743D00
d9611          C2014 07 25.97688 23 10 58.45 -03 45 52.0          19.9 Vq~1743D00
d9611          C2014 07 25.99855 23 10 58.13 -03 46 29.1          19.7 Vq~1743D00
```

ISON-NM (H15)

```
05332          C2014 07 24.21366 20 51 55.11 -06 34 25.3          18.1 Rq~16XUH15
05332          C2014 07 24.22316 20 51 54.53 -06 34 31.1          18.1 Rq~16XUH15
05332          C2014 07 24.23358 20 51 53.89 -06 34 37.2          18.3 Rq~16XUH15
     K05O03J   C2014 07 24.31608 21 56 22.30 -02 36 31.7          19.8 Rq~16WIH15
D6582          C2014 07 24.31608 21 53 14.36 -02 25 49.5          18.3 Rq~16ZPH15
     K05O03J   C2014 07 24.32557 21 56 22.22 -02 36 27.9          20.0 Rq~16WIH15
     K05O03J   C2014 07 24.33501 21 56 21.97 -02 36 25.2          20.1 Rq~16WIH15
D6582          C2014 07 24.33501 21 53 13.83 -02 26 24.7          18.8 Rq~16ZPH15
     K05O03J   C2014 07 24.34573 21 56 21.82 -02 36 20.0          19.6 Rq~16WIH15
D6582          C2014 07 24.34573 21 53 13.61 -02 26 44.1          19.2 Rq~16ZPH15
87311          C2014 07 26.25662 22 14 27.37 +01 02 05.2          18.6 Rq~16qwH15
87311          C2014 07 26.26567 22 14 26.62 +01 02 01.4          18.7 Rq~16qwH15
87311          C2014 07 26.27684 22 14 25.73 +01 01 56.6          18.9 Rq~16qwH15
87311          C2014 07 26.28553 22 14 25.01 +01 01 53.0          18.9 Rq~16qwH15
N5086          C2014 07 26.37153 01 17 07.32 +08 03 13.0          18.7 Rq~16y1H15
N5086          C2014 07 26.38017 01 17 08.46 +08 03 13.0          19.1 Rq~16y1H15
N5086          C2014 07 26.38913 01 17 09.74 +08 03 14.0          19.2 Rq~16y1H15
N5086          C2014 07 26.39822 01 17 10.91 +08 03 13.4          18.9 Rq~16y1H15
```

VIII. ОБОБЩЕННЫЕ РЕЗУЛЬТАТЫ

В ходе прошедшей лунации (09.07.14 - 07.08.14), обсерваториями НСОИ АФН, участвующими в наблюдениях малых тел Солнечной системы, получено 6 950 позиционных измерения. По общему количеству измерений, среди всех наблюдателей, обсерватории ISON-NM и ISON-Kislovodsk заняли 10 и 12 места соответственно. В целом, обсерваториями мира были открыты 63 АСЗ, в том числе 6 потенциально опасных. Общее количество известных АСЗ на данный момент - 11 345 из них потенциально опасных - 1 513 (13.3%).

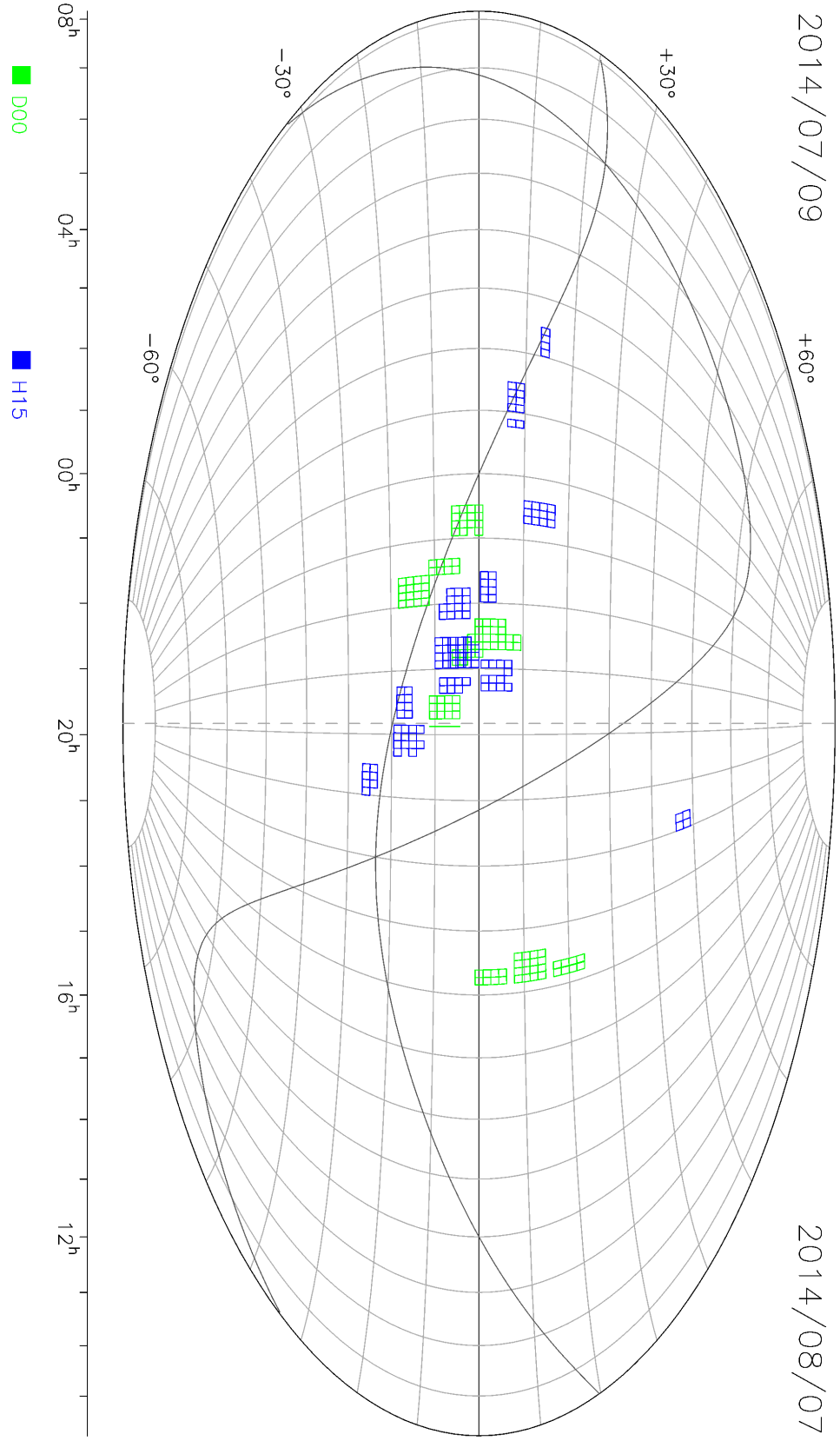
В течении лунации было зафиксировано два тесных сближения малых тел Солнечной системы с Землей. Оба объекта, открытые обсерваториями ESA Optical Ground Station

и Pan-STARRS 1, были обнаружены уже после их тесного сближения с Землей, в прочем, ввиду их небольших размеров, они не представляли реальную угрозу. Оба астероида имели невысокую скорость сближения с нашей планетой.

За отчетный период фотометрические наблюдения не проводились.

В течении лунации радио обсерваторией Аресибо проведена радиолокация одного потенциально опасного АСЗ - 2010 LE15, диаметром около 330 метров, на большом удалении 0.07 а.е. В ходе локации мощность излучателя составила 400 кВт. Наблюдения этого астероида на меньших дальностях, запланированы и на обсерватории Голдстоун.

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

ПРИЛОЖЕНИ 3. ПОЗИЦИОННЫЕ ИЗМЕРЕНИЯ СЕТИ НСОИ АФН/ISON

ISON-Kislovodsk (D00)

```
26460          C2014 07 16.79324 16 21 26.29 -00 27 26.0          18.2 Vq~16PtD00
26460          C2014 07 16.81505 16 21 26.29 -00 27 40.0          18.6 Vq~16PtD00
     K14HC4M   C2014 07 17.78593 16 13 36.88 +11 41 13.4          20.0  q~16WfD00
60868          C2014 07 17.78593 16 12 43.32 +11 38 52.7          20.0  q~16YnD00
L7233          C2014 07 17.78593 16 14 23.60 +11 20 23.6          19.8  q~16ZeD00
     K14HC4M   C2014 07 17.79678 16 13 37.10 +11 40 57.7          20.0  q~16WfD00
60868          C2014 07 17.79678 16 12 43.48 +11 38 40.9          19.5  q~16YnD00
L7233          C2014 07 17.79678 16 14 23.76 +11 20 08.5          19.7  q~16ZeD00
     K14HC4M   C2014 07 17.81846 16 13 37.62 +11 40 27.4          19.9  q~16WfD00
L7233          C2014 07 17.81846 16 14 24.09 +11 19 38.5          19.7  q~16ZeD00
F9765          C2014 07 17.83617 16 26 45.08 +09 32 11.6          19.0  q~16ZUD00
F9765          C2014 07 17.84700 16 26 45.15 +09 31 52.9          19.0  q~16ZUD00
F9765          C2014 07 17.85791 16 26 45.18 +09 31 35.2          18.9  q~16ZUD00
F9765          C2014 07 17.86880 16 26 45.33 +09 31 16.4          19.2  q~16ZUD00
91189          C2014 07 18.84699 16 14 07.12 +16 52 06.1          19.6  q~16Z6D00
91189          C2014 07 18.85787 16 14 07.00 +16 52 02.6          19.7  q~16Z6D00
91189          C2014 07 18.86870 16 14 06.92 +16 51 59.2          19.8  q~16Z6D00
91189          C2014 07 18.87956 16 14 06.71 +16 51 56.8          19.5  q~16Z6D00
20470          C2014 07 18.90266 20 09 25.27 -04 22 44.3          19.2 Vq~16Y2D00
66350          C2014 07 18.90403 20 08 06.43 -06 28 53.0          17.7  q~16YsD00
K0671          C2014 07 18.90403 20 09 06.87 -07 44 24.4          19.3  q~16ZbD00
e1879K01O91P   C2014 07 18.90538 20 11 15.74 -09 09 52.4          18.0  q~16WFD00
32718          C2014 07 18.90674 20 12 13.45 -09 44 45.8          17.4 Vq~16YKD00
68895          C2014 07 18.90674 20 13 58.54 -10 51 39.4          18.9  q~16YuD00
K0594          C2014 07 18.90674 20 08 17.49 -11 06 34.3          18.2  q~16ZbD00
O2076          C2014 07 18.90674 20 08 58.25 -11 04 42.5          18.8  q~16ZiD00
Z5727          C2014 07 18.90674 20 08 11.78 -10 28 06.6          19.4  q~16ZqD00
d9926          C2014 07 18.90674 20 11 44.16 -11 15 21.2          19.7  q~16ZtD00
I7835          C2014 07 18.90944 20 15 07.49 -07 20 51.9          17.5  q~16ZaD00
U2129          C2014 07 18.90944 20 15 39.92 -07 18 09.3          18.5  q~16ZnD00
31038          C2014 07 18.91080 20 15 48.22 -07 56 09.3          18.5  q~16YID00
70899          C2014 07 18.91080 20 18 00.15 -09 03 17.7          18.8  q~16YvD00
Q4345          C2014 07 18.91080 20 16 59.59 -08 47 25.2          18.5  q~16Z1D00
22130          C2014 07 18.91214 20 15 40.96 -10 09 30.8          17.9  q~16Y5D00
40326          C2014 07 18.91214 20 21 19.62 -11 12 17.9          18.0  q~16YUD00
92405          C2014 07 18.91214 20 21 20.20 -11 00 12.0          18.8  q~16Z7D00
O1785          C2014 07 18.91214 20 19 29.41 -10 35 20.1          17.5  q~16ZhD00
P2266          C2014 07 18.91214 20 14 51.50 -10 10 10.9          19.3  q~16ZjD00
20470          C2014 07 18.91352 20 09 24.78 -04 22 50.8          19.3 Vq~16Y2D00
66350          C2014 07 18.91485 20 08 05.76 -06 28 53.9          17.7  q~16YsD00
K0671          C2014 07 18.91485 20 09 06.38 -07 44 25.2          19.4  q~16ZbD00
e1879K01O91P   C2014 07 18.91620 20 11 15.17 -09 09 43.5          17.9  q~16WFD00
32718          C2014 07 18.91756 20 12 12.83 -09 44 44.4          17.2 Vq~16YKD00
68895          C2014 07 18.91756 20 13 57.95 -10 51 40.1          18.8  q~16YuD00
K0594          C2014 07 18.91756 20 08 16.87 -11 06 34.4          18.2  q~16ZbD00
O2076          C2014 07 18.91756 20 08 57.66 -11 04 40.0          18.8  q~16ZiD00
Z5727          C2014 07 18.91756 20 08 11.23 -10 28 09.9          19.4  q~16ZqD00
d9926          C2014 07 18.91756 20 11 43.45 -11 15 18.9          18.5  q~16ZtD00
I7835          C2014 07 18.92028 20 15 06.89 -07 20 52.1          18.4  q~16ZaD00
U2129          C2014 07 18.92028 20 15 39.40 -07 18 06.3          18.5  q~16ZnD00
31038          C2014 07 18.92163 20 15 47.57 -07 56 11.1          17.9  q~16YID00
70899          C2014 07 18.92163 20 17 59.60 -09 03 18.8          18.9  q~16YvD00
22130          C2014 07 18.92299 20 15 40.36 -10 09 34.8          17.8  q~16Y5D00
40326          C2014 07 18.92299 20 21 18.94 -11 12 16.9          17.9  q~16YUD00
92405          C2014 07 18.92299 20 21 19.50 -11 00 11.7          18.8  q~16Z7D00
O1785          C2014 07 18.92299 20 19 28.75 -10 35 19.8          19.1  q~16ZhD00
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02318	C2014 07 24.02241 23 23 35.46 -03 25 28.4	17.5 Vq~16XID00
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50275	C2014 07 24.02241 23 25 27.89 -03 43 52.3	19.2 Vq~16YdD00
55730	C2014 07 24.02241 23 24 28.33 -04 14 08.3	19.4 Vq~16YiD00
67987	C2014 07 24.02241 23 28 48.70 -03 56 37.2	18.3 Vq~16YtD00
27755	C2014 07 24.02375 23 28 52.56 -04 26 58.8	17.8 Vq~16YDD00
38062	C2014 07 24.02375 23 25 19.89 -04 30 08.0	19.0 Vq~16YRD00
O9876	C2014 07 24.02375 23 23 47.98 -05 27 39.7	17.8 Vq~16ZjD00
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46943	C2014 07 24.89354 21 35 34.23 +05 00 35.9	18.2 Vq~16YbD00
54746	C2014 07 24.89354 21 37 37.76 +05 47 43.2	18.0 Vq~16YhD00
P6122	C2014 07 24.89354 21 31 51.16 +05 04 29.4	18.3 Vq~16ZkD00
A4913	C2014 07 24.89490 21 36 43.10 +02 35 50.1	18.1 Vq~16ZED00
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26419	C2014 07 24.89624 21 34 50.94 +02 04 35.3	17.5 Vq~16YBD00
45033	C2014 07 24.89624 21 34 26.50 +01 13 26.3	19.8 Vq~16YYD00
60386	C2014 07 24.89624 21 32 27.95 +01 25 54.8	17.4 Vq~16YnD00
T7724	C2014 07 24.89624 21 37 50.35 +01 20 06.0	19.5 Vq~16ZmD00
W2691	C2014 07 24.89624 21 31 51.91 +02 14 19.6	18.8 Vq~16ZpD00
a0225	C2014 07 24.89624 21 36 42.63 +02 05 28.2	18.4 Vq~16ZqD00
42584	C2014 07 24.89759 21 32 01.21 +00 06 07.6	18.7 Vq~16YWD00
C1496	C2014 07 24.89759 21 38 15.11 -00 27 17.3	19.7 Vq~16ZKD00
C4036	C2014 07 24.89759 21 34 00.04 +00 11 14.1	19.6 Vq~16ZLD00
G0078	C2014 07 24.89759 21 33 15.78 +00 28 51.2	19.3 Vq~16ZUD00
P2874	C2014 07 24.89759 21 35 53.58 +00 17 50.0	20.0 Vq~16ZjD00
60012	C2014 07 24.89897 21 45 26.87 +05 28 24.7	18.8 Vq~16YmD00
68285	C2014 07 24.89897 21 39 13.67 +04 21 12.8	17.9 Vq~16YuD00
90538	C2014 07 24.89897 21 42 08.37 +05 35 00.8	18.6 Vq~16Z6D00
K14N02S	C2014 07 24.90030 21 40 00.80 +03 46 18.1	18.5 Vq~16WzD00
07828	C2014 07 24.90030 21 41 16.90 +03 42 23.8	17.0 Vq~16XcD00
12389	C2014 07 24.90030 21 39 34.39 +03 42 56.6	18.0 Vq~16XnD00
46301	C2014 07 24.90030 21 41 36.34 +03 57 53.8	17.9 Vq~16YaD00
66055	C2014 07 24.90030 21 39 43.70 +04 18 48.8	17.5 Vq~16YrD00
79087	C2014 07 24.90030 21 39 11.10 +02 39 31.9	17.5 Vq~16YzD00
F1371	C2014 07 24.90030 21 40 53.24 +02 51 34.2	18.5 Vq~16ZSD00
F6161	C2014 07 24.90030 21 40 45.74 +04 02 08.1	17.4 Vq~16ZTD00
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29811	C2014 07 24.90167 21 40 11.96 +02 03 57.8	19.6 Vq~16YGD00
a3693	C2014 07 24.90167 21 40 05.57 +01 17 11.5	20.1 Vq~16ZrD00
26582	C2014 07 24.90302 21 39 00.21 +00 00 41.1	16.2 Vq~16YCD00
94657	C2014 07 24.90302 21 41 06.68 -00 20 59.1	18.8 Vq~16Z9D00
B0586	C2014 07 24.90302 21 43 41.54 +00 40 37.3	19.1 Vq~16ZGD00
C1038	C2014 07 24.90302 21 44 27.58 -00 09 22.1	17.9 Vq~16ZKD00
C1307	C2014 07 24.90302 21 42 46.20 -00 11 56.7	18.9 Vq~16ZKD00
H8921	C2014 07 24.90302 21 40 11.38 +00 26 41.0	19.2 Vq~16ZZD00
V9694	C2014 07 24.90302 21 42 49.91 -00 20 50.0	19.7 Vq~16ZoD00
e3481K09U27L	C2014 07 24.90438 21 37 33.43 +05 13 38.7	18.9 Vq~16WLD00
K13A96X	C2014 07 24.90438 21 37 53.39 +05 25 23.1	19.3 Vq~16WTD00
07813	C2014 07 24.90438 21 31 37.61 +04 28 25.0	16.5 Vq~16XcD00
13016	C2014 07 24.90438 21 35 00.67 +04 35 46.5	18.3 Vq~16XoD00
46943	C2014 07 24.90438 21 35 33.77 +05 00 35.1	18.3 Vq~16YbD00
54746	C2014 07 24.90438 21 37 37.33 +05 47 41.8	17.9 Vq~16YhD00
P6122	C2014 07 24.90438 21 31 50.98 +05 04 24.6	18.1 Vq~16ZkD00
A4913	C2014 07 24.90573 21 36 42.72 +02 35 51.0	17.6 Vq~16ZED00
e2706K06VB2T	C2014 07 24.90708 21 33 04.76 +01 05 06.1	19.3 Vq~16WJD00
26419	C2014 07 24.90708 21 34 50.42 +02 04 36.1	17.5 Vq~16YBD00
45033	C2014 07 24.90708 21 34 26.02 +01 13 24.2	19.6 Vq~16YYD00
60386	C2014 07 24.90708 21 32 27.40 +01 25 55.9	18.1 Vq~16YnD00
91974	C2014 07 24.90708 21 36 07.26 +01 20 49.4	19.4 Vq~16Z7D00
T7724	C2014 07 24.90708 21 37 49.87 +01 20 04.6	18.3 Vq~16ZmD00
a0225	C2014 07 24.90708 21 36 42.35 +02 05 27.7	19.4 Vq~16ZqD00
42584	C2014 07 24.90844 21 32 00.81 +00 06 05.7	18.6 Vq~16YWD00
C1496	C2014 07 24.90844 21 38 14.70 -00 27 17.2	18.5 Vq~16ZKD00
G0078	C2014 07 24.90844 21 33 15.20 +00 28 50.4	19.3 Vq~16ZUD00
P2874	C2014 07 24.90844 21 35 53.21 +00 17 49.1	19.6 Vq~16ZjD00
60012	C2014 07 24.90980 21 45 26.44 +05 28 24.1	19.1 Vq~16YmD00
68285	C2014 07 24.90980 21 39 13.33 +04 21 12.0	17.9 Vq~16YuD00
90538	C2014 07 24.90980 21 42 08.01 +05 34 59.0	18.9 Vq~16Z6D00
K14N02S	C2014 07 24.91113 21 40 00.38 +03 46 25.7	18.8 Vq~16WzD00
07828	C2014 07 24.91113 21 41 16.51 +03 42 22.8	16.8 Vq~16XcD00
12389	C2014 07 24.91113 21 39 33.87 +03 42 56.9	18.0 Vq~16XnD00
46301	C2014 07 24.91113 21 41 35.87 +03 57 54.2	17.9 Vq~16YaD00
66055	C2014 07 24.91113 21 39 43.34 +04 18 44.2	16.7 Vq~16YrD00
79087	C2014 07 24.91113 21 39 10.56 +02 39 36.8	17.6 Vq~16YzD00
F1371	C2014 07 24.91113 21 40 52.87 +02 51 31.2	18.6 Vq~16ZSD00
F6161	C2014 07 24.91113 21 40 45.18 +04 02 10.0	18.6 Vq~16ZTD00
K13H55Q	C2014 07 24.91249 21 40 08.54 +01 20 45.2	19.0 Vq~16WXD00
03911	C2014 07 24.91249 21 39 49.31 +02 24 12.6	15.5 Vq~16XQD00
15197	C2014 07 24.91249 21 43 09.25 +01 41 33.7	17.8 Vq~16XsD00
16025	C2014 07 24.91249 21 42 05.08 +01 08 34.2	16.4 Vq~16XuD00
29811	C2014 07 24.91249 21 40 11.49 +02 03 56.6	19.4 Vq~16YGD00
a3693	C2014 07 24.91249 21 40 05.23 +01 17 12.7	18.8 Vq~16ZrD00
26582	C2014 07 24.91384 21 38 59.77 +00 00 43.6	16.5 Vq~16YCD00
94657	C2014 07 24.91384 21 41 06.08 -00 20 57.9	18.9 Vq~16Z9D00
B0586	C2014 07 24.91384 21 43 40.99 +00 40 38.9	19.1 Vq~16ZGD00
C1307	C2014 07 24.91384 21 42 45.72 -00 11 56.7	19.0 Vq~16ZKD00
H8921	C2014 07 24.91384 21 40 11.08 +00 26 38.3	19.3 Vq~16ZZD00
V9694	C2014 07 24.91384 21 42 49.47 -00 20 50.9	19.9 Vq~16ZoD00
e3481K09U27L	C2014 07 24.91522 21 37 33.10 +05 13 40.3	18.9 Vq~16WLD00
07813	C2014 07 24.91522 21 31 37.19 +04 28 23.8	16.5 Vq~16XcD00
13016	C2014 07 24.91522 21 35 00.24 +04 35 45.0	18.1 Vq~16XoD00
46943	C2014 07 24.91522 21 35 33.30 +05 00 34.5	18.1 Vq~16YbD00
54746	C2014 07 24.91522 21 37 36.92 +05 47 40.7	17.8 Vq~16YhD00
P6122	C2014 07 24.91522 21 31 50.66 +05 04 19.6	18.3 Vq~16ZkD00
A4913	C2014 07 24.91656 21 36 42.37 +02 35 51.8	18.4 Vq~16ZED00
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26419	C2014 07 24.91792 21 34 49.89 +02 04 36.9	17.6 Vq~16YBD00
45033	C2014 07 24.91792 21 34 25.52 +01 13 22.5	19.4 Vq~16YYD00
60386	C2014 07 24.91792 21 32 26.81 +01 25 57.5	18.1 Vq~16YnD00
91974	C2014 07 24.91792 21 36 06.78 +01 20 48.2	19.0 Vq~16Z7D00
T7724	C2014 07 24.91792 21 37 49.41 +01 20 05.2	19.1 Vq~16ZmD00
W2691	C2014 07 24.91792 21 31 51.00 +02 14 19.6	20.0 Vq~16ZpD00
a0225	C2014 07 24.91792 21 36 42.02 +02 05 28.1	19.5 Vq~16ZqD00
42584	C2014 07 24.91927 21 32 00.38 +00 06 04.3	18.6 Vq~16YWD00
C4036	C2014 07 24.91927 21 33 59.39 +00 11 12.4	18.3 Vq~16ZLD00
P2874	C2014 07 24.91927 21 35 52.65 +00 17 49.6	18.7 Vq~16ZjD00
60012	C2014 07 24.92063 21 45 25.97 +05 28 24.9	19.0 Vq~16YmD00
68285	C2014 07 24.92063 21 39 12.99 +04 21 10.8	18.0 Vq~16YuD00
90538	C2014 07 24.92063 21 42 07.65 +05 34 58.5	18.8 Vq~16Z6D00
K14N02S	C2014 07 24.92198 21 39 59.86 +03 46 32.3	18.5 Vq~16WzD00
07828	C2014 07 24.92198 21 41 16.13 +03 42 22.0	16.7 Vq~16XcD00
12389	C2014 07 24.92198 21 39 33.41 +03 42 56.7	18.0 Vq~16XnD00
46301	C2014 07 24.92198 21 41 35.38 +03 57 54.2	17.9 Vq~16YaD00
66055	C2014 07 24.92198 21 39 42.96 +04 18 39.5	17.4 Vq~16YrD00
79087	C2014 07 24.92198 21 39 10.09 +02 39 40.9	17.6 Vq~16YzD00
F1371	C2014 07 24.92198 21 40 52.48 +02 51 28.9	18.0 Vq~16ZSD00
F6161	C2014 07 24.92198 21 40 44.75 +04 02 10.5	18.3 Vq~16ZTD00
K13H55Q	C2014 07 24.92333 21 40 08.16 +01 20 42.6	20.2 Vq~16WXD00
03911	C2014 07 24.92333 21 39 48.92 +02 24 11.8	15.6 Vq~16XQD00
15197	C2014 07 24.92333 21 43 08.66 +01 41 30.9	19.0 Vq~16XsD00
16025	C2014 07 24.92333 21 42 04.63 +01 08 34.7	16.5 Vq~16XuD00
29811	C2014 07 24.92333 21 40 10.91 +02 03 56.3	19.6 Vq~16YGD00
a3693	C2014 07 24.92333 21 40 04.78 +01 17 14.7	19.6 Vq~16ZrD00
26582	C2014 07 24.92468 21 38 59.33 +00 00 46.4	16.9 Vq~16YCD00
94657	C2014 07 24.92468 21 41 05.55 -00 20 56.5	18.1 Vq~16Z9D00
B0586	C2014 07 24.92468 21 43 40.47 +00 40 40.3	18.9 Vq~16ZGD00
C1038	C2014 07 24.92468 21 44 26.18 -00 09 11.3	17.9 Vq~16ZKD00
C1307	C2014 07 24.92468 21 42 45.29 -00 11 57.2	19.3 Vq~16ZKD00
H8921	C2014 07 24.92468 21 40 10.68 +00 26 35.9	19.1 Vq~16ZZD00
V9694	C2014 07 24.92468 21 42 48.98 -00 20 52.4	18.5 Vq~16ZoD00
K13A96X	C2014 07 24.92605 21 37 51.92 +05 25 43.0	18.9 Vq~16WTD00
07813	C2014 07 24.92605 21 31 36.83 +04 28 22.4	16.5 Vq~16XcD00
13016	C2014 07 24.92605 21 34 59.78 +04 35 43.0	18.2 Vq~16XoD00
46943	C2014 07 24.92605 21 35 32.83 +05 00 33.7	18.4 Vq~16YbD00
54746	C2014 07 24.92605 21 37 36.41 +05 47 39.7	17.9 Vq~16YhD00
P6122	C2014 07 24.92605 21 31 50.56 +05 04 15.2	18.3 Vq~16ZkD00
A4913	C2014 07 24.92738 21 36 41.89 +02 35 51.9	18.4 Vq~16ZED00
e2706K06VB2T	C2014 07 24.92874 21 33 03.87 +01 05 12.8	18.5 Vq~16WJD00
26419	C2014 07 24.92874 21 34 49.37 +02 04 37.6	17.4 Vq~16YBD00
45033	C2014 07 24.92874 21 34 24.97 +01 13 21.0	19.7 Vq~16YYD00
60386	C2014 07 24.92874 21 32 26.23 +01 25 59.3	18.1 Vq~16YnD00
91974	C2014 07 24.92874 21 36 06.39 +01 20 47.5	19.3 Vq~16Z7D00
T7724	C2014 07 24.92874 21 37 49.07 +01 20 05.7	19.3 Vq~16ZmD00
W2691	C2014 07 24.92874 21 31 50.59 +02 14 20.3	20.0 Vq~16ZpD00
a0225	C2014 07 24.92874 21 36 41.74 +02 05 29.5	18.4 Vq~16ZqD00
42584	C2014 07 24.93009 21 32 00.00 +00 06 02.3	18.5 Vq~16YWD00
C1496	C2014 07 24.93009 21 38 13.76 -00 27 17.1	20.1 Vq~16ZKD00
C4036	C2014 07 24.93009 21 33 58.96 +00 11 11.4	19.6 Vq~16ZLD00
G0078	C2014 07 24.93009 21 33 14.19 +00 28 49.8	19.2 Vq~16ZUD00
P2874	C2014 07 24.93009 21 35 52.26 +00 17 48.9	19.5 Vq~16ZjD00
60012	C2014 07 24.93146 21 45 25.64 +05 28 24.0	18.9 Vq~16YmD00
K14N02S	C2014 07 24.93281 21 39 59.49 +03 46 39.3	18.8 Vq~16WzD00
07828	C2014 07 24.93281 21 41 15.78 +03 42 21.2	16.7 Vq~16XcD00
12389	C2014 07 24.93281 21 39 32.99 +03 42 57.1	18.0 Vq~16XnD00
46301	C2014 07 24.93281 21 41 34.99 +03 57 54.4	17.8 Vq~16YaD00
66055	C2014 07 24.93281 21 39 42.63 +04 18 35.0	17.3 Vq~16YrD00
79087	C2014 07 24.93281 21 39 09.60 +02 39 44.4	17.5 Vq~16YzD00
F1371	C2014 07 24.93281 21 40 52.08 +02 51 25.9	18.6 Vq~16ZSD00
F6161	C2014 07 24.93281 21 40 44.34 +04 02 12.0	18.0 Vq~16ZTD00
03911	C2014 07 24.93417 21 39 48.55 +02 24 11.1	15.5 Vq~16XQD00
15197	C2014 07 24.93417 21 43 08.28 +01 41 28.4	18.6 Vq~16XsD00
16025	C2014 07 24.93417 21 42 04.22 +01 08 35.2	16.5 Vq~16XuD00
29811	C2014 07 24.93417 21 40 10.39 +02 03 55.9	19.3 Vq~16YGD00
a3693	C2014 07 24.93417 21 40 04.43 +01 17 15.0	18.7 Vq~16ZrD00
B0586	C2014 07 24.93552 21 43 40.09 +00 40 42.0	18.9 Vq~16ZGD00
C1038	C2014 07 24.93552 21 44 25.48 -00 09 05.6	17.8 Vq~16ZKD00
V9694	C2014 07 24.93552 21 42 48.63 -00 20 51.8	20.0 Vq~16ZoD00
13980	C2014 07 24.93902 21 46 22.39 +06 03 11.6	16.8 Vq~16XqD00
I6379	C2014 07 24.93902 21 51 35.30 +05 11 56.1	18.2 Vq~16ZaD00
04904	C2014 07 24.94037 21 49 59.11 +03 14 28.3	16.6 Vq~16XTD00
25312	C2014 07 24.94037 21 49 20.79 +03 27 00.9	16.7 Vq~16YAD00
37917	C2014 07 24.94037 21 51 52.73 +02 51 06.1	17.0 Vq~16YRD00
83609	C2014 07 24.94172 21 47 48.67 +01 21 31.6	16.9 Vq~16Z1D00

C1796	C2014 07 24.94172 21 51 38.22 +02 21 56.8	17.9 Vq~16ZKD00	05203	C2014 07 25.96469 23 13 50.55 -01 56 55.1	16.1 Vq~16m2D00
H6865	C2014 07 24.94172 21 50 38.43 +00 51 31.8	18.6 Vq~16ZYD00	32585	C2014 07 25.96469 23 15 59.58 -01 58 01.7	19.4 Vq~16nsD00
P1271	C2014 07 24.94172 21 47 42.05 +01 48 22.9	18.2 Vq~16ZjD00	F9493	C2014 07 25.96469 23 11 07.65 -01 19 39.6	18.2 Vq~16uoD00
P2234	C2014 07 24.94172 21 47 37.10 +02 14 25.0	19.3 Vq~16ZjD00	P2553	C2014 07 25.96469 23 12 56.29 -01 48 19.2	19.6 Vq~16ynD00
18126	C2014 07 24.94308 21 48 08.94 -00 51 01.3	17.4 Vq~16XyD00	32618	C2014 07 25.96469 23 16 14.57 -02 23 03.6	18.4 Vq~16nsD00
21878	C2014 07 24.94308 21 46 32.61 +00 45 28.7	17.7 Vq~16Y5D00	66016	C2014 07 25.96469 23 10 57.16 -01 44 53.6	19.0 Vq~16ppD00
60228	C2014 07 24.94308 21 45 42.81 +00 41 07.9	19.0 Vq~16YnD00	68599	C2014 07 25.96604 23 12 06.54 -03 18 45.3	19.0 Vq~16q0D00
03017	C2014 07 24.94582 21 55 28.98 +03 59 00.7	16.1 Vq~16XLD00	11676	C2014 07 25.96604 23 13 50.24 -03 52 47.1	19.6 Vq~16mWD00
39116	C2014 07 24.94582 21 53 44.16 +03 39 52.3	18.4 Vq~16YTD00	43227	C2014 07 25.96604 23 15 04.42 -03 54 01.8	18.9 Vq~16obD00
03648	C2014 07 24.94854 21 53 20.93 +00 27 45.4	16.7 Vq~16XPD00	64285	C2014 07 25.96604 23 13 30.47 -03 37 02.0	19.8 Vq~16piD00
I6379	C2014 07 24.94992 21 51 35.21 +05 11 54.9	18.2 Vq~16ZaD00	65864	C2014 07 25.96604 23 11 46.29 -03 48 46.1	18.6 Vq~16poD00
04904	C2014 07 24.95127 21 49 58.64 +03 14 28.0	16.5 Vq~16XTD00	13224	C2014 07 25.96604 23 16 17.05 -02 39 39.8	18.8 Vq~16meD00
25312	C2014 07 24.95127 21 49 20.37 +03 27 02.5	16.7 Vq~16YAD00	d9611	C2014 07 25.96604 23 10 58.62 -03 45 33.8	19.5 Vq~1743D00
37917	C2014 07 24.95127 21 51 52.38 +02 51 06.2	16.9 Vq~16YRD00	C5034	C2014 07 25.96604 23 11 52.51 -03 10 53.3	19.1 Vq~16t0D00
83609	C2014 07 24.95265 21 47 48.19 +01 21 37.2	16.9 Vq~16Z2D00	K7946	C2014 07 25.96604 23 12 48.51 -04 15 16.8	19.9 Vq~16x2D00
C1796	C2014 07 24.95265 21 51 37.75 +02 22 01.1	18.1 Vq~16ZKD00	13669	C2014 07 25.96604 23 14 38.73 -03 25 24.2	19.4 Vq~16mgD00
H6865	C2014 07 24.95265 21 50 37.91 +00 51 37.0	18.7 Vq~16ZYD00	23618	C2014 07 25.96604 23 13 20.68 -03 34 07.0	19.5 Vq~16nLD00
P1271	C2014 07 24.95265 21 47 41.55 +01 48 29.0	18.4 Vq~16ZjD00	30104	C2014 07 25.96604 23 11 40.84 -02 53 38.0	19.1 Vq~16nhD00
P2234	C2014 07 24.95265 21 47 36.76 +02 14 29.0	19.2 Vq~16ZjD00	Z4627	C2014 07 25.96604 23 15 31.91 -02 39 44.4	19.6 Vq~172eD00
18126	C2014 07 24.95400 21 48 08.52 -00 51 02.4	17.5 Vq~16XyD00	62375	C2014 07 25.96604 23 10 57.79 -03 29 01.5	19.8 Vq~16pbD00
21878	C2014 07 24.95400 21 46 32.23 +00 45 27.5	17.7 Vq~16Y5D00	67050	C2014 07 25.96604 23 13 22.06 -03 24 39.1	19.4 Vq~16psD00
60228	C2014 07 24.95400 21 45 42.38 +00 41 06.4	18.7 Vq~16YnD00	68148	C2014 07 25.96604 23 12 50.33 -02 43 01.8	18.9 Vq~16pyD00
03017	C2014 07 24.95675 21 55 28.53 +03 59 01.6	16.0 Vq~16XLD00	28044	C2014 07 25.96740 23 11 45.59 -05 48 48.1	18.1 Vq~16nZD00
39116	C2014 07 24.95675 21 53 43.66 +03 39 51.6	18.3 Vq~16YTD00	42829	C2014 07 25.96740 23 16 07.32 -05 57 49.1	18.8 Vq~16oaD00
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21878	C2014 07 24.97576 21 46 31.43 +00 45 25.0	17.7 Vq~16Y5D00	A5385	C2014 07 25.97147 23 08 40.71 -02 51 33.3	19.6 Vq~16s2D00
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03017	C2014 07 24.97848 21 55 27.63 +03 59 03.2	16.2 Vq~16XLD00	14170	C2014 07 25.97147 23 05 59.51 -02 44 31.6	19.4 Vq~16miD00
39116	C2014 07 24.97848 21 53 42.72 +03 39 49.9	18.1 Vq~16YTD00	29847	C2014 07 25.97147 23 05 12.12 -03 02 14.6	18.9 Vq~16nhD00
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03648	C2014 07 24.98117 21 53 19.58 +00 27 41.5	16.8 Vq~16XPD00	83102	C2014 07 25.97147 23 08 40.20 -04 10 26.7	20.2 Vq~16qkD00
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67590	C2014 07 25.95793 23 04 05.21 +00 18 36.8	20.1 Vq~16pvD00	17903	C2014 07 25.97147 23 03 17.61 -03 05 24.9	18.5 Vq~16myD00
69473	C2014 07 25.95793 23 03 22.13 -00 03 19.2	19.5 Vq~16q3D00	23370	C2014 07 25.97147 23 06 44.26 -03 06 53.4	19.2 Vq~16nKD00
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33403	C2014 07 25.95793 23 05 45.16 +00 23 21.2	19.3 Vq~16nvD00	45562	C2014 07 25.97282 23 07 48.06 -05 25 35.3	18.5 Vq~16oiD00
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29847	C2014 07 25.96064 23 05 12.42 -03 02 12.9	19.0 Vq~16nhD00	H6211	C2014 07 25.97282 23 06 48.73 -05 39 12.3	18.6 Vq~16vkD00
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79948	C2014 07 25.96064 23 04 19.89 -03 03 46.5	19.4 Vq~16qbD00	08946	C2014 07 25.97282 23 03 50.08 -04 42 23.1	17.7 Vq~16mKD00
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07591	C2014 07 25.96064 23 05 43.82 -03 45 53.6	19.6 Vq~16mEDD0	05203	C2014 07 25.97553 23 13 50.58 -01 56 52.9	16.1 Vq~16m2D00
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C9253	C2014 07 25.96469 23 16 09.07 -00 59 38.0	18.9 Vq~16tHD00	Z4627	C2014 07 25.97688 23 15 31.98 -02 39 54.5	19.3 Vq~172eD00

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42829	C2014 07 25.97823 23 16 07.19 -05 57 48.3	18.7 Vq~16oaD00
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G0089	C2014 07 25.97823 23 11 30.67 -05 03 25.0	18.6 Vq~16upD00
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05423	C2014 07 25.97823 23 13 30.81 -05 28 39.0	19.6 Vq~16m4D00
13464	C2014 07 25.97823 23 11 48.02 -04 48 10.0	19.5 Vq~16mfD00
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28044	C2014 07 25.97823 23 11 45.42 -05 48 46.5	18.2 Vq~16nZD00
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42256	C2014 07 25.97823 23 11 12.36 -05 58 13.8	18.8 Vq~16oXD00
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50523	C2014 07 25.97961 23 03 51.88 -00 47 52.0	19.4 Vq~16oxD00
67590	C2014 07 25.97961 23 04 04.82 +00 18 39.7	19.6 Vq~16pvD00
C8857	C2014 07 25.97961 23 07 48.93 +00 32 13.2	20.1 Vq~16tFD00
H1600	C2014 07 25.97961 23 08 20.36 +00 41 31.5	19.6 Vq~16vVD00
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23370	C2014 07 25.98229 23 06 44.12 -03 06 53.5	19.4 Vq~16nKD00
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G0707	C2014 07 25.98366 23 05 15.83 -05 16 15.0	18.4 Vq~16urD00
08110	C2014 07 25.98366 23 09 26.74 -04 47 58.8	17.8 Vq~16mGD00
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32585	C2014 07 25.98637 23 15 59.35 -01 58 04.7	19.4 Vq~16nsD00
66016	C2014 07 25.98637 23 10 56.78 -01 44 50.6	19.4 Vq~16ppD00
C9253	C2014 07 25.98637 23 16 09.06 -00 59 46.6	19.5 Vq~16tHD00
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65864	C2014 07 25.98772 23 11 45.86 -03 48 44.3	19.6 Vq~16poD00
68148	C2014 07 25.98772 23 12 49.69 -02 43 00.0	19.6 Vq~16pyD00
C5034	C2014 07 25.98772 23 11 52.15 -03 10 48.3	19.3 Vq~16t0D00
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23618	C2014 07 25.98772 23 13 20.30 -03 34 09.3	19.4 Vq~16nLD00
30104	C2014 07 25.98772 23 11 40.43 -02 53 35.7	19.3 Vq~16nhD00
43227	C2014 07 25.98772 23 15 04.20 -03 54 08.8	19.4 Vq~16obD00
64285	C2014 07 25.98772 23 13 30.20 -03 37 03.6	19.5 Vq~16piD00
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13669	C2014 07 25.98772 23 14 38.47 -03 25 25.4	19.2 Vq~16mgD00
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28044	C2014 07 25.98907 23 11 45.26 -05 48 45.6	18.1 Vq~16nZD00
42256	C2014 07 25.98907 23 11 12.26 -05 58 12.6	18.8 Vq~16oXD00
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G0089	C2014 07 25.98907 23 11 30.51 -05 03 16.9	18.6 Vq~16upD00
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06366	C2014 07 25.98907 23 15 15.89 -04 59 25.6	18.0 Vq~16m9D00
25122	C2014 07 25.98907 23 14 58.56 -05 32 12.7	19.0 Vq~16nQD00
40164	C2014 07 25.98907 23 14 29.31 -04 46 18.4	19.1 Vq~16oODD00
42829	C2014 07 25.98907 23 16 07.08 -05 57 48.2	18.7 Vq~16oaD00
Z6260	C2014 07 25.98907 23 12 54.64 -05 59 37.0	20.1 Vq~1721D00
67512	C2014 07 25.98907 23 11 29.93 -06 01 57.5	18.9 Vq~16puD00
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C8857	C2014 07 25.99044 23 07 48.68 +00 32 18.7	20.0 Vq~16tFD00
H1600	C2014 07 25.99044 23 08 20.22 +00 41 33.1	19.6 Vq~16vVD00
02060	C2014 07 25.99044 23 04 13.96 -00 26 35.1	18.7 Vq~1611D00
01651	C2014 07 25.99044 23 04 49.56 -00 33 13.5	15.8 Vq~16ljD00
33403	C2014 07 25.99044 23 05 44.47 +00 23 21.7	20.4 Vq~16nvD00
50523	C2014 07 25.99044 23 03 51.72 -00 47 55.5	19.3 Vq~16oxD00
67590	C2014 07 25.99044 23 04 04.54 +00 18 40.8	19.3 Vq~16pvD00
69473	C2014 07 25.99044 23 03 21.48 -00 03 17.1	19.5 Vq~16q3D00
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17081	C2014 07 25.99313 23 03 34.98 -03 50 05.0	17.0 Vq~16muD00
31414	C2014 07 25.99313 23 07 05.13 -02 37 56.1	18.4 Vq~16nnD00
17903	C2014 07 25.99313 23 03 17.28 -03 05 27.5	18.7 Vq~16myD00
23370	C2014 07 25.99313 23 06 43.95 -03 06 54.5	19.7 Vq~16nKD00
28952	C2014 07 25.99313 23 06 44.32 -03 25 06.7	19.4 Vq~16ndD00
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79948	C2014 07 25.99313 23 04 18.65 -03 03 38.1	19.6 Vq~16qbD00
83102	C2014 07 25.99313 23 08 39.93 -04 10 28.9	19.8 Vq~16qkD00
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14663	C2014 07 25.99313 23 05 44.79 -04 11 32.0	17.9 Vq~16mkD00
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C9253	C2014 07 25.99720 23 16 09.12 -00 59 51.7	20.2 Vq~16tHD00
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11676	C2014 07 25.99855 23 13 49.67 -03 52 49.8	19.4 Vq~16mWD00
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C5034	C2014 07 25.99855 23 11 51.96 -03 10 46.1	19.0 Vq~16t0D00
K7946	C2014 07 25.99855 23 12 48.87 -04 15 19.4	19.8 Vq~16x2D00
Z4627	C2014 07 25.99855 23 15 31.86 -02 40 15.7	19.7 Vq~172eD00
62375	C2014 07 25.99855 23 10 57.15 -03 29 04.4	19.0 Vq~16pbD00
68599	C2014 07 25.99855 23 12 05.74 -03 18 49.3	20.0 Vq~16q0D00
d9611	C2014 07 25.99855 23 10 58.13 -03 46 29.1	19.7 Vq~1743D00
13224	C2014 07 25.99855 23 16 16.54 -02 39 39.0	18.6 Vq~16meD00
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43227	C2014 07 25.99855 23 15 03.96 -03 54 12.0	19.1 Vq~16obD00
64285	C2014 07 25.99855 23 13 30.13 -03 37 04.4	19.5 Vq~16piD00
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68148	C2014 07 25.99855 23 12 49.43 -02 42 59.6	19.5 Vq~16pyD00
50942	C2014 07 25.99991 23 14 50.60 -04 48 30.4	18.8 Vq~16ozD00
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A7643	C2014 07 25.99991 23 15 19.23 -05 32 23.1	18.4 Vq~16s9D00
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06366	C2014 07 25.99991 23 15 15.71 -04 59 27.4	18.1 Vq~16m9D00
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67512	C2014 07 25.99991 23 11 29.68 -06 01 56.6	18.6 Vq~16puD00
67940	C2014 07 25.99991 23 11 13.65 -05 22 31.1	19.2 Vq~16pwD00
G0089	C2014 07 25.99991 23 11 30.37 -05 03 09.2	18.5 Vq~16upD00
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07717	C2014 07 25.99991 23 10 44.05 -05 33 57.5	19.4 Vq~16mEDD00
13464	C2014 07 25.99991 23 11 47.63 -04 48 11.7	19.1 Vq~16mfD00
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48277	C2014 07 10.23609 21 05 45.81 -06 14 08.1	17.9 Rq~16RAH15
61201	C2014 07 10.23609 21 06 28.32 -06 42 56.7	17.0 Rq~16RtH15
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02205	C2014 07 10.23867 21 04 36.01 -00 18 12.1	16.0 Rq~16NsH15
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69775     C2014 07 10.24385 21 03 27.77 -03 58 52.5          17.7 Rq~16SIH15
94576     C2014 07 10.24385 21 03 20.29 -04 34 39.8          18.4 Rq~16T8H15
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48277     C2014 07 10.24613 21 05 45.39 -06 14 08.1          17.9 Rq~16RAH15
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69775     C2014 07 10.25545 21 03 27.44 -03 58 55.8          17.6 Rq~16SIH15
94576     C2014 07 10.25545 21 03 19.72 -04 34 38.2          18.7 Rq~16T8H15
11945     C2014 07 10.25773 21 04 35.98 -05 26 38.3          17.0 Rq~16OpH15
21644     C2014 07 10.25773 21 01 17.27 -06 08 40.7          17.3 Rq~16PZH15
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61201     C2014 07 10.25773 21 06 27.60 -06 42 54.2          17.1 Rq~16RtH15
F0479     C2014 07 10.25773 21 06 53.24 -05 33 30.7          18.2 Rq~16UOH15
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94576     C2014 07 10.26536 21 03 19.44 -04 34 37.2          18.2 Rq~16T8H15
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15903     C2014 07 10.27003 21 13 23.67 -04 16 07.3          17.2 Rq~16PAH15
81779     C2014 07 10.27003 21 10 50.48 -03 37 33.0          18.9 Rq~16ShH15
E0419     C2014 07 10.27003 21 10 54.10 -04 10 35.2          18.9 Rq~16UEH15
05076     C2014 07 10.27226 21 11 19.83 -01 56 55.7          17.2 Rq~16OCH15
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21337     C2014 07 10.27226 21 12 15.06 -02 23 09.1          19.0 Rq~16PYH15
B6580     C2014 07 10.27226 21 10 12.48 -03 03 30.1          18.6 Rq~16TkH15
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46949     C2014 07 10.27661 21 10 05.79 -00 05 05.9          17.9 Rq~16R6H15
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05076     C2014 07 10.28226 21 11 19.48 -01 56 55.8          17.0 Rq~16OCH15
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21337     C2014 07 10.28226 21 12 14.81 -02 23 10.4          17.9 Rq~16PYH15
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19746     C2014 07 10.28617 21 10 13.38 -01 08 08.7          18.4 Rq~16PRH15
46949     C2014 07 10.28617 21 10 05.49 -00 05 05.8          17.8 Rq~16R6H15
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15903     C2014 07 10.29002 21 13 23.07 -04 16 13.1          16.9 Rq~16PAH15
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05076     C2014 07 10.29228 21 11 19.14 -01 56 56.0          17.1 Rq~16OCH15
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19746     C2014 07 10.29619 21 10 13.10 -01 08 09.8          18.1 Rq~16PRH15
46949     C2014 07 10.29619 21 10 05.05 -00 05 05.4          18.0 Rq~16R6H15
S7839     C2014 07 10.29619 21 08 19.09 -00 54 17.9          18.6 Rq~16VfH15
15903     C2014 07 10.30054 21 13 22.76 -04 16 16.5          17.0 Rq~16PAH15
81779     C2014 07 10.30054 21 10 49.72 -03 37 43.4          18.6 Rq~16ShH15
E0419     C2014 07 10.30054 21 10 53.01 -04 10 32.1          18.7 Rq~16UEH15
05076     C2014 07 10.30277 21 11 18.79 -01 56 56.4          16.9 Rq~16OCH15
09257     C2014 07 10.30277 21 12 58.63 -03 11 02.7          16.2 Rq~16ObH15
21337     C2014 07 10.30277 21 12 14.15 -02 23 10.3          18.4 Rq~16PYH15
B6580     C2014 07 10.30277 21 10 11.28 -03 03 26.2          19.0 Rq~16TkH15
19746     C2014 07 10.30622 21 10 12.79 -01 08 11.0          18.4 Rq~16PRH15
46949     C2014 07 10.30622 21 10 04.62 -00 05 05.4          18.2 Rq~16R6H15
S7839     C2014 07 10.30622 21 08 18.82 -00 54 17.4          18.4 Rq~16VfH15
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91545     C2014 07 10.31071 21 21 40.72 -06 22 58.8          18.7 Rq~16T2H15
B3688     C2014 07 10.31071 21 21 24.28 -05 48 49.9          19.2 Rq~16TgH15
N2757     C2014 07 10.31071 21 20 08.57 -05 46 53.2          19.0 Rq~16VIH15
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91537     C2014 07 10.31292 21 17 56.07 -04 05 54.9          18.4 Rq~16T2H15
D8178     C2014 07 10.31292 21 17 21.91 -03 51 50.4          18.6 Rq~16UBH15
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11949     C2014 07 10.31853 21 14 05.56 -05 24 46.4          17.1 Rq~16OpH15
19736     C2014 07 10.31853 21 09 09.96 -06 02 59.8          17.7 Rq~16PRH15
40386     C2014 07 10.31853 21 12 05.90 -05 41 47.1          17.8 Rq~16QlH15
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60916     C2014 07 10.31853 21 13 48.71 -06 40 09.4          17.7 Rq~16RsH15
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67816     C2014 07 10.32082 21 16 15.34 -05 49 45.8          18.1 Rq~16SDH15
91545     C2014 07 10.32082 21 21 40.35 -06 22 58.2          17.5 Rq~16T2H15
B3688     C2014 07 10.32082 21 21 23.78 -05 48 49.1          19.7 Rq~16TgH15
F4604     C2014 07 10.32082 21 15 44.49 -06 25 46.1          18.7 Rq~16URH15
N2757     C2014 07 10.32082 21 20 08.28 -05 46 51.8          18.1 Rq~16VIH15
13546     C2014 07 10.32522 21 15 01.92 -04 08 33.8          18.4 Rq~16OxH15
29870     C2014 07 10.32522 21 20 56.57 -04 18 13.2          17.7 Rq~16Q7H15
61282     C2014 07 10.32522 21 18 22.65 -04 58 26.0          18.2 Rq~16RtH15
91537     C2014 07 10.32522 21 17 55.63 -04 05 54.5          18.9 Rq~16T2H15
D8178     C2014 07 10.32522 21 17 21.54 -03 51 53.5          19.8 Rq~16UBH15
O3949     C2014 07 10.32522 21 21 06.81 -03 40 34.9          18.1 Rq~16VQH15
06095     C2014 07 10.32972 21 14 19.67 -05 19 55.0          15.0 Rq~16OIH15
11949     C2014 07 10.32972 21 14 05.16 -05 24 46.8          17.3 Rq~16OpH15
19736     C2014 07 10.32972 21 09 09.55 -06 02 59.5          17.8 Rq~16PRH15
40386     C2014 07 10.32972 21 12 05.59 -05 41 46.7          17.5 Rq~16QlH15
40879     C2014 07 10.32972 21 12 28.02 -06 20 03.2          18.0 Rq~16QnH15
46850     C2014 07 10.32972 21 13 05.05 -05 49 50.6          17.3 Rq~16R5H15
60916     C2014 07 10.32972 21 13 48.27 -06 40 08.2          17.8 Rq~16RsH15
87492     C2014 07 10.32972 21 12 47.78 -05 29 18.2          18.2 Rq~16SuH15
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40847	C2014 07 24.31384 21 56 29.99 -05 06 44.0	17.5 Rq~16YUH15
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67219	C2014 07 25.42037 00 52 16.96 +08 56 05.2	17.6 Rq~16YtH15
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05210	C2014 07 26.34716 01 12 45.61 +07 24 14.2	18.4 Rq~16m2H15	52153	C2014 07 26.36491 01 08 51.91 +06 45 28.3	18.6 Rq~16p1H15
08784	C2014 07 26.34716 01 09 20.82 +06 22 25.4	19.2 Rq~16mKH15	58993	C2014 07 26.36491 01 12 24.39 +06 52 31.8	19.0 Rq~16pPH15
19678	C2014 07 26.34716 01 11 42.05 +07 58 44.5	18.7 Rq~16n5H15	G2586	C2014 07 26.36491 01 11 15.23 +07 14 11.5	19.3 Rq~16uyH15
31418	C2014 07 26.34716 01 11 16.95 +06 49 07.8	20.0 Rq~16nnH15	00037	C2014 07 26.36491 01 09 51.13 +06 32 18.1	10.2 Rq~16lbH15
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23157	C2014 07 26.34961 01 01 34.50 +06 25 37.0	18.6 Rq~16nJH15	28883	C2014 07 26.36712 01 18 45.67 +07 04 11.4	19.5 Rq~16ndH15
56414	C2014 07 26.34961 01 02 58.81 +07 04 30.7	18.3 Rq~16pGH15	40210	C2014 07 26.36712 01 16 07.43 +06 55 49.0	19.2 Rq~16oPH15
00589	C2014 07 26.34961 01 06 13.33 +06 42 15.6	14.1 Rq~16ldH15	46968	C2014 07 26.36712 01 20 00.95 +07 12 13.8	18.8 Rq~16onH15
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17429	C2014 07 26.34961 01 00 54.18 +07 18 36.1	19.1 Rq~16mwH15	00871	C2014 07 26.36712 01 20 56.54 +06 45 02.2	16.1 Rq~16lfH15
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36753	C2014 07 26.34961 01 02 43.22 +07 12 32.0	19.0 Rq~16oAH15	16203	C2014 07 26.36712 01 16 35.45 +07 37 04.0	18.1 Rq~16mqH15
66415	C2014 07 26.34961 01 03 56.92 +06 52 42.1	18.9 Rq~16prH15	23034	C2014 07 26.36712 01 16 49.25 +07 39 11.9	18.2 Rq~16nIH15
67184	C2014 07 26.34961 01 01 29.33 +06 39 18.0	19.7 Rq~16ptH15	40624	C2014 07 26.36712 01 18 32.23 +06 32 10.9	19.8 Rq~16oQH15
67594	C2014 07 26.34961 01 01 54.68 +07 41 34.7	19.1 Rq~16pvH15	47077	C2014 07 26.37153 01 15 53.92 +09 00 27.7	18.9 Rq~16onH15
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03668	C2014 07 26.35177 01 13 15.27 +09 06 12.6	16.6 Rq~16luH15	09381	C2014 07 26.37153 01 16 40.32 +08 13 55.0	18.0 Rq~16mMH15
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C3240	C2014 07 26.35177 01 12 53.69 +08 09 57.2	19.2 Rq~16suH15	04640	C2014 07 26.37153 01 18 22.82 +09 08 47.1	17.2 Rq~16lzH15
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F2190	C2014 07 26.35177 01 09 11.94 +08 24 58.2	19.4 Rq~16uVH15	92019	C2014 07 26.37153 01 18 11.15 +09 18 58.1	20.4 Rq~16rEH15
15581	C2014 07 26.35177 01 10 53.82 +08 29 16.4	18.7 Rq~16moH15	J1352	C2014 07 26.37153 01 16 03.69 +09 20 17.6	20.1 Rq~16wSH15
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28305	C2014 07 26.35177 01 11 21.36 +09 27 38.5	19.8 Rq~16naH15	08784	C2014 07 26.37392 01 09 22.24 +06 22 30.7	18.8 Rq~16mKH15
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31418	C2014 07 26.35580 01 11 17.27 +06 49 08.4	20.0 Rq~16nnH15	19678	C2014 07 26.37392 01 11 42.88 +07 58 51.2	19.4 Rq~16n5H15
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23442	C2014 07 26.35580 01 11 12.28 +07 00 59.7	18.9 Rq~16nLH15	58993	C2014 07 26.37392 01 12 24.69 +06 52 33.3	19.5 Rq~16pPH15
26283	C2014 07 26.35580 01 09 30.16 +07 53 19.8	17.2 Rq~16nUH15	09071	C2014 07 26.37619 01 16 58.06 +07 51 50.5	18.6 Rq~16mLH15
39201	C2014 07 26.35580 01 13 27.00 +07 01 02.6	18.6 Rq~16oKH15	D4652	C2014 07 26.37619 01 17 04.20 +07 11 52.8	18.5 Rq~16tbH15
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58993	C2014 07 26.35580 01 12 24.00 +06 52 27.9	18.9 Rq~16pPH15	00871	C2014 07 26.37619 01 20 56.91 +06 45 03.4	16.2 Rq~16lfH15
36753	C2014 07 26.35867 01 02 43.51 +07 12 33.4	19.4 Rq~16oAH15	10366	C2014 07 26.37619 01 15 37.28 +06 55 59.0	18.1 Rq~16mRH15
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17429	C2014 07 26.35867 01 00 54.44 +07 18 39.2	19.9 Rq~16mwH15	40624	C2014 07 26.37619 01 18 32.63 +06 32 13.7	19.1 Rq~16oQH15
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07982	C2014 07 26.35867 01 07 10.17 +06 35 00.2	19.4 Rq~16mGH15	04854	C2014 07 26.37619 01 19 52.92 +06 40 31.3	18.2 Rq~16m0H15
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66415	C2014 07 26.35867 01 03 57.42 +06 52 45.3	18.2 Rq~16prH15	08782	C2014 07 26.38017 01 19 49.51 +09 44 21.8	17.3 Rq~16mKH15
67594	C2014 07 26.35867 01 01 54.98 +07 41 39.6	19.2 Rq~16pvH15	22832	C2014 07 26.38017 01 17 10.10 +08 58 52.5	18.3 Rq~16nIH15
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C3240	C2014 07 26.36082 01 12 54.28 +08 10 02.4	19.4 Rq~16suH15	47077	C2014 07 26.38017 01 15 54.16 +09 00 28.9	18.6 Rq~16onH15
F2190	C2014 07 26.36082 01 09 12.58 +08 25 00.3	19.1 Rq~16uVH15	70477	C2014 07 26.38017 01 18 23.14 +08 16 35.9	18.7 Rq~16q7H15
18838	C2014 07 26.36082 01 10 21.81 +08 30 14.8	19.8 Rq~16n2H15	B2243	C2014 07 26.38017 01 21 13.05 +08 43 20.2	19.8 Rq~16sQH15
28305	C2014 07 26.36082 01 11 21.69 +09 27 41.5	20.3 Rq~16naH15	01973	C2014 07 26.38017 01 18 13.07 +08 39 46.1	17.0 Rq~16llH15
48276	C2014 07 26.36082 01 08 41.10 +08 32 24.4	20.5 Rq~16oqH15	02342	C2014 07 26.38017 01 17 45.48 +08 19 06.0	16.7 Rq~16lnH15
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39669	C2014 07 26.38238 01 22 22.70 +07 38 31.2	20.2 Rq~16oMH15
78812	C2014 07 26.38238 01 24 16.54 +07 13 13.5	19.3 Rq~16qXH15
D3113	C2014 07 26.38238 01 22 48.24 +07 31 59.7	19.2 Rq~16tXH15
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16042	C2014 07 26.38238 01 25 13.24 +07 27 41.4	18.0 Rq~16mqH15
19038	C2014 07 26.38238 01 24 50.67 +07 29 41.1	18.9 Rq~16n3H15
68000	C2014 07 26.38238 01 26 26.34 +06 43 41.6	19.1 Rq~16pxH15
81020	C2014 07 26.38238 01 24 11.32 +06 30 32.5	20.2 Rq~16qcH15
81570	C2014 07 26.38238 01 24 41.25 +07 41 58.2	20.5 Rq~16qfH15
A6779	C2014 07 26.38238 01 26 40.35 +07 10 43.9	19.6 Rq~16s6H15
C2431	C2014 07 26.38238 01 22 57.41 +06 53 52.5	19.4 Rq~16ssH15
E7702	C2014 07 26.38238 01 24 47.55 +07 43 36.5	19.4 Rq~16uHH15
M8994	C2014 07 26.38238 01 22 43.53 +07 14 52.4	20.1 Rq~16xwH15
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70342	C2014 07 26.38238 01 23 29.42 +06 58 30.8	19.5 Rq~16q7H15
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83186	C2014 07 26.38523 01 15 31.09 +07 17 46.5	20.4 Rq~16qkH15
D4652	C2014 07 26.38523 01 17 04.45 +07 11 54.4	18.8 Rq~16tbH15
01615	C2014 07 26.38523 01 21 26.01 +07 35 48.3	15.5 Rq~16liH15
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04854	C2014 07 26.38523 01 19 53.14 +06 40 31.5	17.9 Rq~16m0H15
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43329	C2014 07 26.38523 01 16 59.67 +07 40 32.9	19.0 Rq~16obH15
B4394	C2014 07 26.38523 01 17 50.57 +07 05 43.2	19.2 Rq~16sUH15
00802	C2014 07 26.38523 01 16 00.21 +06 24 27.1	16.2 Rq~16lfH15
00871	C2014 07 26.38523 01 20 57.24 +06 45 04.5	16.1 Rq~16lfH15
10366	C2014 07 26.38523 01 15 37.81 +06 56 00.8	18.2 Rq~16mRH15
12250	C2014 07 26.38523 01 18 22.10 +07 09 59.7	17.7 Rq~16mZH15
16203	C2014 07 26.38523 01 16 36.33 +07 37 07.3	18.2 Rq~16mqH15
23034	C2014 07 26.38523 01 16 50.24 +07 39 18.8	18.3 Rq~16nIH15
35801	C2014 07 26.38523 01 15 43.81 +07 04 54.3	18.9 Rq~16o5H15
40624	C2014 07 26.38523 01 18 33.02 +06 32 17.9	19.6 Rq~16oQH15
46968	C2014 07 26.38523 01 20 02.01 +07 12 17.1	18.7 Rq~16onH15
47077	C2014 07 26.38913 01 15 54.30 +09 00 30.5	18.5 Rq~16onH15
63055	C2014 07 26.38913 01 17 10.25 +09 19 46.6	19.9 Rq~16pdH15
02342	C2014 07 26.38913 01 17 45.79 +08 19 07.5	16.7 Rq~16lnH15
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01973	C2014 07 26.38913 01 18 13.37 +08 39 46.7	17.1 Rq~16llH15
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09381	C2014 07 26.38913 01 16 40.81 +08 13 58.2	17.9 Rq~16mMH15
22832	C2014 07 26.38913 01 17 10.64 +08 58 58.2	18.6 Rq~16nIH15
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78812	C2014 07 26.39148 01 24 17.25 +07 13 15.7	19.2 Rq~16qXH15
81020	C2014 07 26.39148 01 24 11.67 +06 30 35.2	20.3 Rq~16qcH15
C2431	C2014 07 26.39148 01 22 58.01 +06 53 52.2	20.6 Rq~16ssH15
D0487	C2014 07 26.39148 01 22 17.69 +07 54 04.8	19.7 Rq~16tKH15
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M8994	C2014 07 26.39148 01 22 43.83 +07 14 56.2	20.4 Rq~16xwH15
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13453	C2014 07 26.39148 01 25 02.27 +06 53 28.2	18.5 Rq~16mfH15
16042	C2014 07 26.39148 01 25 13.63 +07 27 43.0	17.9 Rq~16mqH15
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04854	C2014 07 26.39582 01 19 53.33 +06 40 31.7	18.0 Rq~16m0H15
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D3113	C2014 07 26.40049 01 22 49.69 +07 32 09.1	19.3 Rq~16tXH15
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C2431	C2014 07 26.40049 01 22 58.53 +06 53 53.2	19.9 Rq~16ssH15
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61516	C2014 07 26.40049 01 27 25.80 +06 48 55.3	20.4 Rq~16pYH15
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39669	C2014 07 26.40049 01 22 23.29 +07 38 32.8	20.4 Rq~16oMH15
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32038	C2014 07 26.40265 01 24 09.41 +09 26 28.6	18.4 Rq~16nqH15
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88831	C2014 07 26.40265 01 25 13.21 +09 29 41.5	19.9 Rq~16qzH15
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E3125	C2014 07 26.40265 01 25 29.92 +08 29 53.7	19.5 Rq~16u2H15
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82701	C2014 07 26.40265 01 22 23.31 +09 07 01.9	18.4 Rq~16qjH15
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21001	C2014 07 26.40265 01 27 19.81 +08 44 15.4	20.3 Rq~16nBH15
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D0487	C2014 07 26.40947 01 22 19.25 +07 54 14.6	19.8 Rq~16tKH15
97796	C2014 07 26.40947 01 28 25.92 +07 20 37.5	18.9 Rq~16rbH15
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61516	C2014 07 26.40947 01 27 26.34 +06 48 59.8	19.9 Rq~16pYH15
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47432	C2014 07 26.40947 01 28 45.74 +07 18 26.5	18.1 Rq~16ooH15
70342	C2014 07 26.40947 01 23 30.45 +06 58 33.6	19.7 Rq~16q7H15
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71642	C2014 07 26.41169 01 27 39.98 +08 08 00.0	18.8 Rq~16qBH15
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E3156	C2014 07 26.41169 01 23 40.61 +08 34 58.6	19.3 Rq~16u2H15
G2551	C2014 07 26.41169 01 27 54.79 +08 54 14.8	19.0 Rq~16uyH15
15723	C2014 07 26.41169 01 26 46.50 +08 53 27.4	18.1 Rq~16mpH15
21355	C2014 07 26.41169 01 23 19.99 +09 15 55.9	18.5 Rq~16nCH15
23731	C2014 07 26.41169 01 27 12.98 +08 15 32.3	19.1 Rq~16nMH15
27883	C2014 07 26.41169 01 22 05.71 +08 46 02.5	18.8 Rq~16nZH15
82701	C2014 07 26.41169 01 22 23.75 +09 07 07.3	18.3 Rq~16qjH15
88831	C2014 07 26.41169 01 25 13.66 +09 29 45.1	19.3 Rq~16qzH15
E3125	C2014 07 26.41169 01 25 30.36 +08 29 56.7	20.0 Rq~16u2H15
I0601	C2014 07 26.41169 01 29 01.19 +08 54 52.3	19.2 Rq~16w0H15
06953	C2014 07 26.41169 01 24 36.45 +07 59 09.7	18.0 Rq~16mBH15
07974	C2014 07 26.41169 01 26 09.68 +09 00 06.5	18.2 Rq~16mGH15
11754	C2014 07 26.41169 01 25 12.55 +08 59 47.3	18.6 Rq~16mWH15
11916	C2014 07 26.41169 01 25 03.54 +08 53 56.7	18.2 Rq~16mXH15
17468	C2014 07 26.41169 01 26 18.62 +08 57 45.6	18.8 Rq~16mwH15
21001	C2014 07 26.41169 01 27 20.33 +08 44 14.2	20.3 Rq~16nBH15
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88831	C2014 07 26.42117 01 25 14.09 +09 29 47.4	20.2 Rq~16qzH15
21001	C2014 07 26.42117 01 27 20.85 +08 44 13.0	20.2 Rq~16nBH15
23731	C2014 07 26.42117 01 27 13.69 +08 15 36.9	18.2 Rq~16nMH15
40098	C2014 07 26.42117 01 23 01.44 +09 24 41.0	19.2 Rq~16oOH15

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B4925	C2014 07 26.42117 01 23 52.13 +08 33 33.4	18.8 Rq~16sWH15	40879	C2014 07 27.17961 21 01 11.29 -07 08 58.4	17.5 Rq~16oRH15
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E3125	C2014 07 26.42117 01 25 30.80 +08 29 59.5	19.5 Rq~16u2H15	40845	C2014 07 27.17961 21 05 16.22 -07 13 44.4	16.7 Rq~16oRH15
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G2551	C2014 07 26.42117 01 27 55.77 +08 54 11.3	19.6 Rq~16uyH15	50658	C2014 07 27.17961 21 02 03.89 -07 19 38.4	19.2 Rq~16oyH15
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11754	C2014 07 26.42117 01 25 12.91 +08 59 48.9	18.6 Rq~16mWH15	91537	C2014 07 27.18184 21 06 50.24 -04 10 24.9	18.3 Rq~16rAH15
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15723	C2014 07 26.42117 01 26 47.13 +08 53 32.5	18.0 Rq~16mpH15	06095	C2014 07 27.18405 21 03 48.19 -05 02 39.3	14.6 Rq~16m7H15
21355	C2014 07 26.42117 01 23 20.40 +09 15 57.9	18.6 Rq~16nCH15	81779	C2014 07 27.18405 21 01 28.98 -05 45 17.4	18.3 Rq~16qgH15
27883	C2014 07 26.42117 01 22 05.98 +08 46 06.4	18.1 Rq~16nZH15	11949	C2014 07 27.18405 21 03 20.12 -05 50 11.9	16.6 Rq~16mXH15
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71642	C2014 07 26.42117 01 27 40.39 +08 08 02.7	18.7 Rq~16qBH15	W1509	C2014 07 27.18405 21 04 03.75 -05 30 32.3	19.0 Rq~1722H15
32038	C2014 07 26.42968 01 24 11.40 +09 26 43.0	18.3 Rq~16nqH15	61282	C2014 07 27.18405 21 06 28.71 -05 10 29.1	18.0 Rq~16pXH15
23668	C2014 07 26.42968 01 24 12.04 +08 49 25.3	20.0 Rq~16nLH15	67816	C2014 07 27.18405 21 05 30.88 -06 23 52.3	18.1 Rq~16pwH15
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06953	C2014 07 26.42968 01 24 37.06 +07 59 12.1	17.6 Rq~16mBH15	66038	C2014 07 27.18743 21 02 08.11 -07 09 34.9	18.1 Rq~16ppH15
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31131	C2014 07 26.42968 01 25 38.39 +09 37 37.6	19.5 Rq~16nmH15	39896	C2014 07 27.18743 21 04 48.10 -08 00 42.4	19.4 Rq~16oNH15
71642	C2014 07 26.42968 01 27 40.83 +08 08 04.8	19.4 Rq~16qBH15	40879	C2014 07 27.18743 21 01 10.88 -07 09 00.6	17.2 Rq~16oRH15
82701	C2014 07 26.42968 01 22 24.64 +09 07 19.8	18.4 Rq~16qjH15	46850	C2014 07 27.18743 21 01 37.70 -06 58 02.5	17.3 Rq~16omH15
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I0601	C2014 07 26.42968 01 29 02.40 +08 54 45.0	19.5 Rq~16w0H15	C8124	C2014 07 27.18965 21 03 36.64 -08 59 45.8	19.6 Rq~16tCH15
07974	C2014 07 26.42968 01 26 10.72 +09 00 14.1	18.4 Rq~16mGH15	D1515	C2014 07 27.18965 21 06 07.42 -09 44 02.1	19.4 Rq~16tOH15
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21001	C2014 07 26.42968 01 27 21.40 +08 44 10.1	19.6 Rq~16nBH15	13356	C2014 07 27.18965 21 05 58.40 -08 43 44.7	17.5 Rq~16meH15
21355	C2014 07 26.42968 01 23 20.72 +09 16 00.1	18.6 Rq~16nCH15	87160	C2014 07 27.18965 21 01 04.89 -08 37 00.6	17.5 Rq~16qvH15
23731	C2014 07 26.42968 01 27 14.30 +08 15 40.9	18.3 Rq~16nMH15	A7913	C2014 07 27.18965 21 06 22.73 -09 03 08.3	18.3 Rq~16s9H15
27883	C2014 07 26.42968 01 22 06.20 +08 46 09.9	18.4 Rq~16nZH15	B0849	C2014 07 27.18965 21 03 16.00 -09 04 25.6	18.4 Rq~16sKH15
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