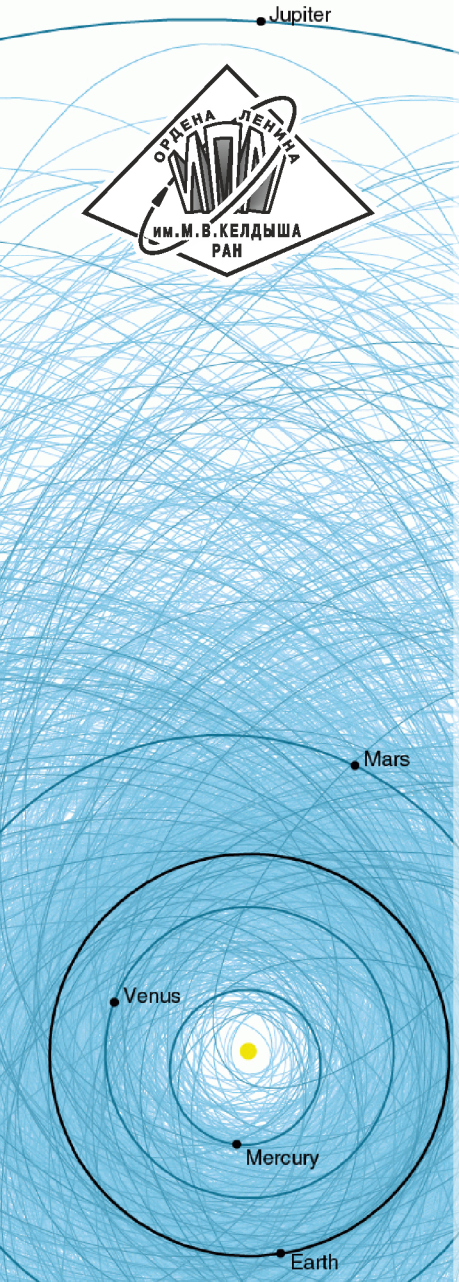
ОРДЕНА ЛЕНИНА
ИНСТИТУТ ПРИКЛАДНОЙ МАТЕМАТИКИ
ИМЕНИ М.В. КЕЛДЫША
РОССИЙСКОЙ АКАДЕМИИ НАУК

Бюллетень № 15-3 (12)

3-я лунация 2015 г.
04.03.15 – 31.03.15



АСТЕРОИДНО-КОМЕТНАЯ ОПАСНОСТЬ

Москва – 2015

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. ВВЕДЕНИЕ

В ходе третьей лунации 2015 года, основным источником координатной информации стал 3.5-метровый телескоп SST. Обнаружение небольшого количества новых объектов, может говорить об использовании коротких экспозиций, необходимых для выполнения основной задачи данного телескопа - контроль космических аппаратов и космического мусора на геоцентрических орбитах. Скорее всего, измерения малых тел Солнечной системы является попутным продуктом работы телескопа SST. По общему числу открытых объектов, лидером остается обзор Pan-STARRS - открыто 8916 астероидов.

В отчетный период зафиксировано три тесных сближения АСЗ с Землей, два из которых были обнаружены еще до сближения с Землей. Все три АСЗ принадлежат семейству Аполлона, причем астероид 2015 ET в настоящий момент является виртуальным импактором (VI) - вероятность столкновения с Землей в 2076-2114 годах, оценивается в *P = 1E-7 – 1.2E-8*.

Телескопы сети НСОИ АФН продолжают свои наблюдения в рамках проблематики АКО. Детальная информация представлена в соответствующих разделах. Напоминаем, что вся статистическая информация основана на публичных данных Центра малых планет (Гарвард, США) и доступна по адресу *http://minorplanetcenter.net/iau/ECS/MPCArchive/MPCArchive_TBL.html*

II. ОБЩАЯ СТАТИСТИКА ИЗМЕРЕНИЙ МАЛЫХ ТЕЛ СОЛНЕЧНОЙ СИСТЕМЫ

№	Код MPC	Измерений	Объектов	Открыто	Обсерватория
1.	G45	1095433	68292	188	Space Surveillance Telescope
2.	F51	607520	103677	8916	Pan-STARRS 1
3.	703	217658	33062	61	Catalina Sky Survey
4.	G96	209137	42136	660	Mt. Lemmon Survey
5.	D29	206860	40286	92	Purple Mountain Observatory
6.	691	104884	19599	227	Spacewatch
7.	J43	12562	2456	24	Oukaimeden Observatory
8.	C51	11378	563	5	WISE
9.	C41	11374	3773	1	MASTER-II Observatory, Kislovodsk
10.	W95	9079	2146	2	Observatorio Panameno
11.	K95	8632	2414	3	MASTER-SAAO Observatory
12.	**H15**	**7704**	**2464**	**1**	**ISON-NM Observatory**
13.	309	6929	764	10	Cerro Paranal
14.	J04	4336	1145	3	ESA Optical Ground Station
15.	I41	4177	825	1	Palomar Mountain--PTF
16.	C94	3629	1216	1	MASTER-II Observatory, Tunka
17.	D03	2251	554	0	Rantiga Osservatorio
18.	A84	1848	28	0	TUBITAK National Observatory
19.	246	1830	214	1	Klet Observatory-KLENOT
20.	H21	1649	227	0	Astronomical Research Observatory
21.	291	1488	333	0	LPL/Spacewatch II
22.	461	966	216	0	University of Szeged (Konkoly)
23.	V30	924	285	0	Heaven on Earth Observatory
24.	807	754	207	65	Cerro Tololo Observatory
25.	Q62	626	108	2	iTelescope Observatory, Siding Spring
26.	585	579	7	0	Kyiv comet station
27.	W98	518	172	0	Polonia Observatory
28.	568	513	162	1	Mauna Kea
29.	926	504	167	0	Tenagra II Observatory
30.	C95	482	80	0	SATINO Remote Observatory
43.	**D00**	**245**	**58**	**1**	**ISON-Kislovodsk Observatory**
65.	**O75**	**99**	**29**	**0**	**ISON-Hureltogoot Observatory**

III. ОБЩАЯ СТАТИСТИКА ПО КОЛИЧЕСТВУ ОТКРЫТЫХ ОБЪЕКТОВ

№	Код MPC	Измерений	Объектов	Открыто	Обсерватория
1.	F51	607520	103677	8916	Pan-STARRS 1
2.	G96	209137	42136	660	Mt. Lemmon Survey
3.	691	104884	19599	227	Spacewatch
4.	G45	1095433	68292	188	Space Surveillance Telescope
5.	D29	206860	40286	92	Purple Mountain Observatory
6.	807	754	207	65	Cerro Tololo Observatory
7.	703	217658	33062	61	Catalina Sky Survey
8.	J43	12562	2456	24	Oukaimeden Observatory
9.	198	403	66	11	Wildberg
10.	309	6929	764	10	Cerro Paranal
11.	C51	11378	563	5	WISE
12.	250	348	4	4	Hubble Space Telescope
13.	G32	199	32	3	Elena Remote Observatory
	J04	4336	1145	3	ESA Optical Ground Station
	K95	8632	2414	3	MASTER-SAAO Observatory
14.	290	159	17	2	Mt. Graham-VATT
	Q62	626	108	2	iTelescope Observatory, Siding Spring
	W95	9079	2146	2	Observatorio Panameno
	621	96	30	2	Bergisch Gladbach
15.	C41	11374	3773	1	MASTER-II Observatory, Kislovodsk
	G37	177	82	1	Discovery Channel Telescope
	W86	113	28	1	Cerro Tololo-LCOGT B
	I41	4177	825	1	Palomar Mountain--PTF
	H15	**7704**	**2464**	**1**	**ISON-NM Observatory**
	568	513	162	1	Mauna Kea
	C94	3629	1216	1	MASTER-II Observatory, Tunka
	D00	**245**	**58**	**1**	**ISON-Kislovodsk Observatory**
	106	50	12	1	Crni Vrh
	246	1830	214	1	Klet Observatory-KLENOT

IV. СТАТИСТИКА ПО ОТКРЫТЫМ АСЗ

	Количество	Потенциально опасные	Атира	Атоны	Аполлонцы	Амуры
Лунация	**160**	15	0	11	95	54
Всего	**12 427**	**1 589**	**21**	**914**	**6 179**	**5 313**

V. ТЕСНЫЕ СБЛИЖЕНИЯ АСЗ С ЗЕМЛЕЙ

Обозначение	Дата	Δ, *км*	MOID, а. е.	$V_з$, *км/с*	m_0	H	D, *м*	E	Δt, *сутки*	Сем-во
2015 ET	2015-03-10.69088	124 200	0.0008	12.800	16.3V	26.7	10-25	154.6	-0.79652	Аполлон
2015 EO6	2015-03-12.01099	113 700	0.0007	23.509	20.1V	30.2	2-5	176.4	0.60623	Аполлон
2015 FM118	2015-03-28.11005	354 500	0.0011	8.598	20.6V	28.7	4-10	143.6	2.85432	Аполлон

Δ - расстояние до Земли; MOID - минимальная дистанция пересечения орбит; $V_з$ - скорость относительно Земли; m_0 - блеск в момент обнаружения; H - абсолютная величина; D - диаметр (при ρ=0.05-0.3); E - элонгация; Δt - время упреждения (дата обнаружения относительно даты минимального сближения с Землей)

2015 ET

```
Эпоха 2015 июнь 27.0 TT = JDT 2457200.5
M  49.06807            (2000.0)            P              Q
n   0.33927622     Peri.  124.22021     -0.47561375     -0.87965359          T = 2457055.87427 JDT
a   2.0359500      Node   354.17881     +0.80358959     -0.43399631          q = 0.8572545
e   0.5789413      Incl.    0.59897     +0.35782026     -0.19456815       MOID = 0.00081 a.e.
П   2.91           H   26.7           G   0.15           U   4
```

2015 EO6

```
Эпоха 2015 июнь 27.0 TT = JDT 2457200.5
M  17.36353            (2000.0)            P              Q
n   0.27972724     Peri.   91.86774     -0.13198699     +0.99110416          T = 2457138.42692 JDT
a   2.3155076      Node   170.49661     -0.94563580     -0.12072533          q = 0.5531072
e   0.7611292      Incl.    5.94039     -0.29724125     -0.05601733       MOID = 0.00071 a.e.
П   3.52           H   30.2           G   0.15           U   5
```

2015 FM118

```
Эпоха 2015 июнь 27.0 TT = JDT 2457200.5
M  24.31549            (2000.0)            P              Q
n   0.34343862     Peri.   27.08412     -0.84717287     +0.53131263          T = 2457129.69989 JDT
a   2.0194664      Node   185.01180     -0.49200023     -0.78606732          q = 0.9672136
e   0.5210548      Incl.    1.46929     -0.20058389     -0.31591939       MOID = 0.00109 a.e.
П   2.87           H   28.7           G   0.15           U   4
```

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

VI. ФОТОМЕТРИЯ АСЗ

В отчетный период фотометрические наблюдения не проводились.

VII. ДАННЫЕ РАДИОЛОКАЦИИ АСЗ

Обозначение	*	Дата начала наблюдений	Дата окончания наблюдений	Обсерватория	D, м	Δ_0, а.е.	Δ_1, а.е.	P, *кВт*
2002 FG7	PHA	2015-03-17	2015-03-17	Голдстоун	520	0.061↑	0.061↑	450
2014 YB35	PHA	2015-03-20	2015-03-20	Голдстоун	520	0.047↓	0.047↓	450

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

VIII. АСТРОМЕТРИЯ АСЗ

ISON-Kislovodsk (D00)

```
     K14Y35B  C2015 03 05.90374 06 04 14.44 +70 21 08.7          16.5 Rq~1MjfD00
     K14Y35B  C2015 03 05.90477 06 04 14.16 +70 21 06.5          16.8 Rq~1MjfD00
     K14Y35B  C2015 03 05.90617 06 04 13.38 +70 21 04.7          16.5 Rq~1MjfD00
```

ISON-NM (H15)

```
E2348        C2015 03 15.19352 10 00 26.09 +24 23 19.6          19.4 Ro~1O0GH15
E2348        C2015 03 15.20438 10 00 25.79 +24 23 19.3          19.4 Ro~1O0GH15
E2348        C2015 03 15.21699 10 00 25.42 +24 23 17.3          19.5 Ro~1O0GH15
     K15B92X C2015 03 15.30401 11 23 16.62 +18 22 56.0          19.7 Ro~1N8tH15
     K15B92X C2015 03 15.31527 11 23 17.47 +18 23 14.6          19.8 Ro~1N8tH15
     K15B92X C2015 03 15.32617 11 23 18.35 +18 23 32.0          20.4 Ro~1N8tH15
01864        C2015 03 17.12168 11 37 55.81 +13 50 25.8          17.9 Ro~1ND5H15
01864        C2015 03 17.13255 11 37 54.42 +13 50 29.2          18.1 Ro~1ND5H15
01864        C2015 03 17.14374 11 37 52.98 +13 50 32.8          17.7 Ro~1ND5H15
E1527       tC2015 03 22.14913 11 23 30.31 -09 15 57.2          15.6 Ro~1OvIH15
E1527       tC2015 03 22.16101 11 23 30.67 -09 14 11.0          15.8 Ro~1OvIH15
E1527       tC2015 03 22.17182 11 23 30.98 -09 12 34.0          16.0 Ro~1OvIH15
07480        C2015 03 22.29005 12 20 34.78 +14 35 12.9          19.0 Ro~1OZFH15
```

```
07480         C2015 03 22.30086 12 20 33.81 +14 35 20.6          19.0 Ro~1OZFH15
07480         C2015 03 22.31369 12 20 32.68 +14 35 30.3          19.0 Ro~1OZFH15
     K15E07E  C2015 03 23.29255 11 55 33.04 +42 05 00.0          18.3 Ro~1OVjH15
     K15E07E  C2015 03 23.30337 11 55 27.38 +42 04 12.7          18.2 Ro~1OVjH15
     K15E07E  C2015 03 23.31464 11 55 21.45 +42 03 23.2          18.1 Ro~1OVjH15
g5450         C2015 03 25.28310 14 18 06.74 +14 32 39.1          18.9 Ro~1PD3H15
g5450         C2015 03 25.29462 14 18 07.69 +14 32 55.8          18.7 Ro~1PD3H15
g5450         C2015 03 25.30555 14 18 08.59 +14 33 11.5          18.7 Ro~1PD3H15
```

ISON-Hureltogoot (O75)

```
     K15E00K KC2015 03 10.61961 08 30 08.77 +08 35 49.5          19.4 Rq~1MkSO75
     K15E00K KC2015 03 10.62122 08 30 06.23 +08 35 01.6          19.3 Rq~1MkSO75
     K15E00K KC2015 03 10.62444 08 30 01.13 +08 33 23.9          18.7 Rq~1MkSO75
     K15E00G  C2015 03 10.69712 10 39 41.78 +09 05 31.6          18.6 Rq~1MkRO75
     K15E00G  C2015 03 10.69862 10 39 40.58 +09 05 41.8          18.7 Rq~1MkRO75
     K15E00G  C2015 03 10.70087 10 39 39.03 +09 05 58.5          18.5 Rq~1MkRO75
     K15E00Z  C2015 03 11.65419 10 01 31.32 -10 26 17.8          17.4 Rq~1NAQO75
     K15E00Z  C2015 03 11.65622 10 01 31.12 -10 26 12.5          17.7 Rq~1NAQO75
     K15E00Z  C2015 03 11.65703 10 01 31.07 -10 26 10.0          17.8 Rq~1NAQO75
     K15E00Z  C2015 03 11.65824 10 01 30.91 -10 26 06.4          17.9 Rq~1NAQO75
     K15E00V KC2015 03 11.66141 10 16 40.89 +09 43 44.0          18.4 Rq~1MkTO75
     K15E00V KC2015 03 11.66480 10 16 35.96 +09 44 16.6          19.4 Rq~1MkTO75
     K15E00V KC2015 03 11.66517 10 16 35.35 +09 44 21.0          19.1 Rq~1MkTO75
     K15E00P  C2015 03 11.67179 10 21 45.17 +01 27 21.2          17.7 Rq~1MkSO75
     K15E00P  C2015 03 11.67220 10 21 45.90 +01 27 13.4          17.8 Rq~1MkSO75
     K15E00P  C2015 03 11.67259 10 21 46.54 +01 27 05.7          18.3 Rq~1MkSO75
     K15E00P  C2015 03 11.67340 10 21 47.95 +01 26 49.6          18.2 Rq~1MkSO75
     K15E00T  C2015 03 11.81470 13 00 28.33 -01 56 27.5          16.6 Rq~1MkTO75
     K15E00T  C2015 03 11.81793 13 00 25.02 -01 57 17.7          17.2 Rq~1MkTO75
     K15E00T  C2015 03 11.81914 13 00 23.80 -01 57 37.0          16.8 Rq~1MkTO75
     K15E00T  C2015 03 11.81955 13 00 23.40 -01 57 42.8          16.8 Rq~1MkTO75
     K15E00Q  C2015 03 11.82535 12 02 53.53 -15 02 48.6          17.3 Rq~1MkSO75
     K15E00Q  C2015 03 11.82575 12 02 50.25 -15 02 53.9          17.5 Rq~1MkSO75
     K15E00Q  C2015 03 11.82697 12 02 40.17 -15 03 01.9          17.2 Rq~1MkSO75
     K15E07E  C2015 03 15.63557 12 46 44.46 +47 39 05.2          18.2 Rq~1NAaO75
     K15E07E  C2015 03 15.63800 12 46 43.69 +47 39 01.8          17.7 Rq~1NAaO75
     K15E07E  C2015 03 15.63921 12 46 43.28 +47 39 00.8          18.0 Rq~1NAaO75
     K15E07E  C2015 03 15.64001 12 46 43.05 +47 38 58.8          18.4 Rq~1NAaO75
     K15E07C KC2015 03 15.67973 09 37 42.65 +15 02 31.0          19.3 Rq~1NAaO75
     K15E07C KC2015 03 15.68274 09 37 43.05 +15 02 16.3          19.4 Rq~1NAaO75
```

```
 K15E07C KC2015 03 15.68575 09 37 43.40 +15 02 01.5          19.5 Rq~1NAaO75
 K15E07C KC2015 03 15.68876 09 37 43.67 +15 01 46.3          19.6 Rq~1NAaO75
 K15E07F KC2015 03 15.69563 09 22 03.37 +50 27 03.6          18.3 Rq~1NAaO75
 K15E07F KC2015 03 15.69863 09 22 02.24 +50 27 36.5          19.6 Rq~1NAaO75
 K15E07F KC2015 03 15.70164 09 22 01.05 +50 28 08.2          18.8 Rq~1NAaO75
 K15E07F KC2015 03 15.70465 09 21 59.90 +50 28 42.7          19.9 Rq~1NAaO75
 K15E06Z KC2015 03 15.78225 15 17 34.85 +13 36 22.8          20.3 Rq~1NAZO75
 K15E06Z KC2015 03 15.78300 15 17 37.08 +13 36 25.1          19.9 Rq~1NAZO75
 K15E06Z KC2015 03 15.78413 15 17 40.39 +13 36 26.8          19.2 Rq~1NAZO75
K15E06Z KC2015 03 15.78451 15 17 41.45 +13 36 27.5          19.1 Rq~1NAZO75
 K15E07D KC2015 03 15.79541 16 12 46.41 +09 13 03.3          20.3 Rq~1NAaO75
 K15E07D KC2015 03 15.79616 16 12 46.01 +09 13 02.8          20.5 Rq~1NAaO75
 K15E07D KC2015 03 15.79692 16 12 45.63 +09 13 02.2          20.3 Rq~1NAaO75
 K15E07D KC2015 03 15.79767 16 12 45.24 +09 13 02.1          20.1 Rq~1NAaO75
 K15FY4V KC2015 03 19.77092 08 26 54.70 +24 54 19.1          18.3 Rq~1QfZO75
 K15FY4V KC2015 03 19.77172 08 26 51.45 +24 54 55.7          19.4 Rq~1QfZO75
 K15FY4V KC2015 03 19.77212 08 26 49.79 +24 55 15.7          18.3 Rq~1QfZO75
 K15F00P KC2015 03 19.77917 11 44 33.97 +27 12 58.1          19.5 Rq~1NBNO75
 K15F00P KC2015 03 19.78216 11 44 34.03 +27 12 24.0          19.3 Rq~1NBNO75
 K15F00P KC2015 03 19.78516 11 44 34.16 +27 11 50.7          19.4 Rq~1NBNO75
 K15F00Q KC2015 03 19.79761 11 47 41.20 -01 38 02.6          20.2 Rq~1NBNO75
 K15F00Q KC2015 03 19.79836 11 47 41.11 -01 38 02.4          19.8 Rq~1NBNO75
 K15F00Q KC2015 03 19.79986 11 47 40.79 -01 38 01.5          21.1 Rq~1NBNO75
 K15F00S KC2015 03 19.85240 11 40 51.57 +31 27 35.1          20.0 Rq~1NBNO75
 K15F00S KC2015 03 19.85389 11 40 51.87 +31 27 40.0          20.3 Rq~1NBNO75
 K15F00S KC2015 03 19.85464 11 40 52.07 +31 27 42.4          20.6 Rq~1NBNO75
 K15F00S KC2015 03 19.85539 11 40 52.24 +31 27 44.8          20.6 Rq~1NBNO75
 K15F35L  C2015 03 22.68625 13 39 12.91 +18 04 35.5          17.5 Rq~1OVtO75
 K15F35L  C2015 03 22.68705 13 39 12.09 +18 04 09.5          17.7 Rq~1OVtO75
 K15F35L  C2015 03 22.68745 13 39 11.71 +18 03 56.4          17.7 Rq~1OVtO75
 K15F35L  C2015 03 22.68786 13 39 11.30 +18 03 42.8          18.1 Rq~1OVtO75
 K15F35Q KC2015 03 22.70167 14 42 15.75 +20 02 07.1          19.3 Rq~1OVuO75
 K15F35Q KC2015 03 22.70769 14 42 16.22 +20 01 27.9          18.9 Rq~1OVuO75
 K15F35Q KC2015 03 22.71070 14 42 16.37 +20 01 09.2          19.2 Rq~1OVuO75
 K15F35P KC2015 03 22.76151 15 12 42.80 +08 39 15.0          18.8 Rq~1OVuO75
 K15F35P KC2015 03 22.76474 15 12 34.26 +08 37 15.3          18.5 Rq~1OVuO75
 K15F35P KC2015 03 22.76633 15 12 30.00 +08 36 20.3          18.9 Rq~1OVuO75
 K15F36G KC2015 03 24.59437 10 09 03.13 -18 11 02.2          19.6 Rq~1OVvO75
 K15F36G KC2015 03 24.59512 10 09 02.84 -18 11 04.2          19.7 Rq~1OVvO75
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K15F36G KC2015 03 24.59587 10 09 02.53 -18 11 06.2          19.7 Rq~1OVvO75
K15F36G KC2015 03 24.59663 10 09 02.20 -18 11 08.6          19.6 Rq~1OVvO75
K15FB7Q KC2015 03 24.61472 10 46 20.12 -07 08 45.4          19.7 Rq~1OX4O75
K15FB7Q KC2015 03 24.61622 10 46 19.73 -07 08 42.8          20.2 Rq~1OX4O75
K15FB7V KC2015 03 24.64967 12 07 48.92 +44 33 19.3          19.2 Rq~1OX4O75
K15FB7V KC2015 03 24.65117 12 07 47.35 +44 32 48.0          19.5 Rq~1OX4O75
K15FB7V KC2015 03 24.65268 12 07 45.79 +44 32 14.3          18.8 Rq~1OX4O75
```

IX. ОБОБЩЕННЫЕ РЕЗУЛЬТАТЫ

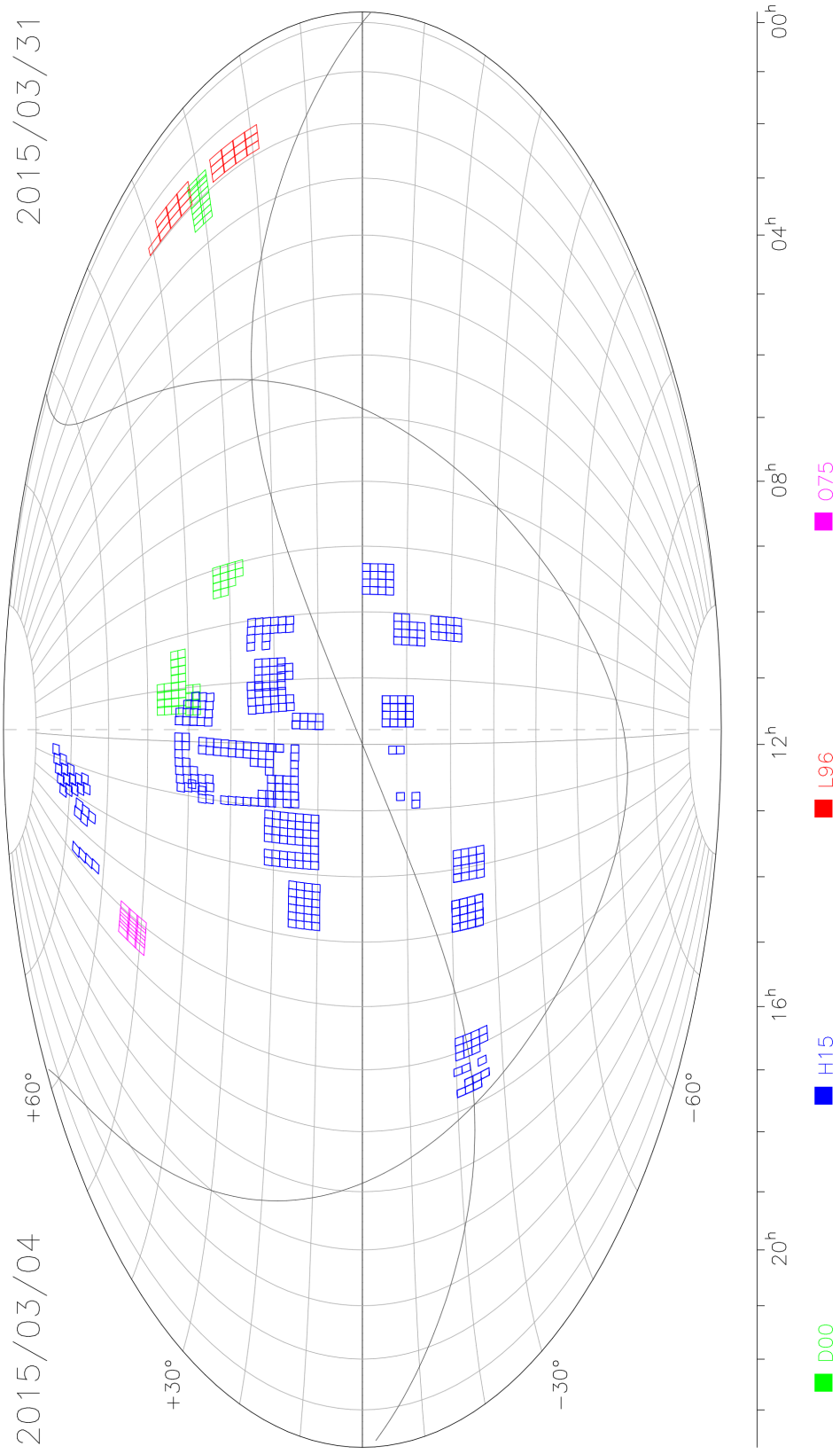
За рассматриваемый период времени (04.03.15-31.03.15), обсерваториями НСОИ АФН, участвующими в наблюдениях малых тел Солнечной системы получено 8 084 позиционных измерения, открыто 2 новых астероида. По общему количеству позиционных измерений, среди всех наблюдателей, обсерватория ISON-NM заняла 12 место. Малое число измерений обуславливается техническими проблемами, которые, в данный момент, устранены. В целом, всеми обсерваториями были открыты 160 АСЗ, в том числе 15 потенциально опасных. Общее количество известных АСЗ на данный момент - 12 427 из них потенциально опасных - 1 589 (12.8% от общего числа АСЗ).

Были зафиксированы три тесных сближения с Землей. Два астероида были обнаружены до тесного сближение с Землей.

В отчетный период фотометрические наблюдения не проводились.

Радио обсерваторией Голдстоун, проведена успешная локация двух потенциально опасных АСЗ - 2002 FG7 и 2014 YB35. Наблюдения проводились на дистанциях от 0.047 до 0.061 а.е. В ходе наблюдений, мощность передатчиков составляла 450 кВт (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-650А 0.65-м f/2	FLI PL4301	132x132	3.81	-	43° 41’ 55” N 132° 09’ 56” E	279
D00	ISON-Kislovodsk Observatory	Сантел-400АН 0.4-м f/3	FLI ML09000	106x106	2.06	BVRI	43° 44’ 25” N 42° 39’ 13” E	2 107
D53	ISON-Blagoveschensk Observatory	ЧВ-500 0.5-м f/3.4	FLI ML09000	75x75	1.46	BVRI	50° 19’ 08” N 127° 28’ 56” E	226
H15	ISON-NM Observatory	Сантел-400АН 0.4-м f/3	FLI PL16803	106x106	1.55	BVRIC	32° 54’ 12” N 105° 31’ 42” W	2 217
K99	ISON-Uzhgorod Observatory	ЧВ-400 0.4-м f/4.5	FLI PL09000	70x70	1.38	BVR	48° 33’ 48” N 22° 27’ 13” E	235
L96	ISON-Byurakan	ORI-40 0.4-м f/2.3	FLI ML09000	137x137	2.67	BVRI	40° 20’ 51” N 44° 16’ 28 E	1 572
O75	ISON-Hureltogoot Observatory	ORI-40 0.4-м f/2.3	FLI ML09000	137x137	2.67	BVRI	47° 51’ 55” N 107° 03’ 07” E	1 604

ПРИЛОЖЕНИЕ 3.
ПОЗИЦИОННЫЕ ИЗМЕРЕНИЯ СЕТИ НСОИ АФН/ISON

ISON-Kislovodsk (D00)

```
      K14Y35B  C2015 03 05.90374 06 04 14.44 +70 21 08.7          16.5 Rq~1MjfD00
      K14Y35B  C2015 03 05.90477 06 04 14.16 +70 21 06.5          16.8 Rq~1MjfD00
      K14Y35B  C2015 03 05.90617 06 04 13.38 +70 21 04.7          16.5 Rq~1MjfD00
17711         C2015 03 08.69162 09 29 39.62 +32 13 43.7          16.9 Vq~1MnID00
27741         C2015 03 08.69162 09 26 59.26 +32 53 33.7          17.4 Vq~1MoWD00
11221         C2015 03 08.69331 09 09 47.04 +33 24 01.0          17.6 Vq~1MmRD00
91507         C2015 03 08.69416 08 58 33.22 +32 37 09.5          17.6 Vq~1Mu9D00
01839         C2015 03 08.69514 09 24 25.06 +30 37 40.5          16.3 Vq~1MkvD00
M8660         C2015 03 08.69514 09 29 16.96 +31 01 20.5          20.2 Vq~1N0mD00
33650         C2015 03 08.69597 09 18 26.42 +31 29 20.9          18.4 Vq~1Mp8D00
90872         C2015 03 08.69597 09 19 59.63 +31 53 33.3          17.5 Vq~1Mu7D00
F0973         C2015 03 08.69597 09 18 36.72 +30 41 53.2          19.4 Vq~1MxbD00
01099         C2015 03 08.69682 09 11 17.20 +30 25 37.6          15.9 Vq~1Mk1D00
19732         C2015 03 08.69682 09 09 22.31 +31 13 15.3          18.3 Vq~1MnYD00
32473         C2015 03 08.69682 09 13 21.60 +31 33 53.1          17.5 Vq~1Mp1D00
33635         C2015 03 08.69682 09 06 07.87 +31 06 38.0          18.8 Vq~1Mp8D00
50864         C2015 03 08.69682 09 08 58.27 +31 06 28.7          17.8 Vq~1MqqD00
51924         C2015 03 08.69682 09 14 00.68 +30 53 58.7          20.1 Vq~1MqyD00
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A6802         C2015 03 08.69682 09 10 34.78 +31 11 18.9          19.5 Vq~1Mv4D00
33635         C2015 03 08.69767 09 06 07.92 +31 06 39.0          19.2 Vq~1Mp8D00
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01099         C2015 03 08.70383 09 11 16.88 +30 25 37.3          15.4 Vq~1Mk1D00
19732         C2015 03 08.70383 09 09 22.07 +31 13 16.1          17.4 Vq~1MnYD00
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M8660         C2015 03 08.70916 09 29 16.42 +31 01 22.8          18.8 Vq~1N0mD00
33650         C2015 03 08.71001 09 18 25.79 +31 29 22.5          18.1 Vq~1Mp8D00
90872         C2015 03 08.71001 09 19 59.03 +31 53 28.1          17.9 Vq~1Mu7D00
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48456         C2015 03 08.72053 09 15 14.09 +29 31 30.1          18.3 Vq~1MqZD00
71944         C2015 03 08.72053 09 21 22.16 +29 54 35.3          19.0 Vq~1MsUD00
76727         C2015 03 08.72053 09 17 07.67 +30 10 38.5          19.2 Vq~1MstD00
78759         C2015 03 08.72053 09 16 49.15 +29 08 18.5          18.8 Vq~1Mt8D00
P4510         C2015 03 08.72053 09 16 54.61 +28 36 53.8          18.3 Vq~1N1fD00
46750         C2015 03 08.72139 09 12 09.07 +29 11 47.9          18.1 Vq~1MqOD00
F6272         C2015 03 08.72139 09 11 28.24 +29 34 38.5          19.5 Vq~1MxqD00
X4942         C2015 03 08.72222 09 04 21.16 +29 36 09.2          18.7 Vq~1N3dD00
96246         C2015 03 08.72488 09 10 38.19 +27 32 58.2          19.1 Vq~1MuQD00
B4269         C2015 03 08.72488 09 12 10.26 +27 05 34.4          20.4 Vq~1MvdD00
12333         C2015 03 08.72574 08 59 47.58 +27 56 03.9          18.5 Vq~1MmaD00
13813         C2015 03 08.72574 09 01 06.00 +28 33 16.5          17.2 Vq~1MmmD00
19954         C2015 03 08.72574 09 04 41.90 +27 06 17.3          17.6 Vq~1MnaD00
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47848         C2015 03 08.72574 09 02 02.07 +28 16 53.3          19.5 Vq~1MqVD00
57152         C2015 03 08.72574 08 58 55.94 +28 22 18.3          19.0 Vq~1MrPD00
68602         C2015 03 08.72574 08 58 38.08 +27 49 33.5          18.2 Vq~1MsED00
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48456         C2015 03 08.72757 09 15 13.78 +29 31 27.9          19.1 Vq~1MqZD00
71944         C2015 03 08.72757 09 21 21.94 +29 54 34.4          19.5 Vq~1MsUD00
76727         C2015 03 08.72757 09 17 07.32 +30 10 38.0          19.4 Vq~1MstD00
78759         C2015 03 08.72757 09 16 48.77 +29 08 17.8          18.9 Vq~1Mt8D00
P4510         C2015 03 08.72757 09 16 54.30 +28 36 52.5          19.4 Vq~1N1fD00
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19954         C2015 03 08.73277 09 04 41.61 +27 06 17.6          17.8 Vq~1MnbD00
44518         C2015 03 08.73277 09 05 28.24 +27 59 20.4          19.5 Vq~1MqAD00
47848         C2015 03 08.73277 09 02 01.83 +28 16 52.0          18.7 Vq~1MqVD00
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76727         C2015 03 08.73458 09 17 06.99 +30 10 37.2          19.3 Vq~1MstD00
78759         C2015 03 08.73458 09 16 48.59 +29 08 19.0          18.7 Vq~1Mt8D00
P4510         C2015 03 08.73458 09 16 53.99 +28 36 51.7          19.5 Vq~1N1fD00
46750         C2015 03 08.73543 09 12 08.39 +29 11 43.9          18.2 Vq~1MqOD00
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X4942         C2015 03 08.73626 09 04 20.56 +29 36 03.6          19.4 Vq~1N3dD00
96246         C2015 03 08.73892 09 10 37.68 +27 32 58.9          18.8 Vq~1MuQD00
B4269         C2015 03 08.73892 09 12 09.70 +27 05 35.3          19.0 Vq~1MvdD00
12333         C2015 03 08.73978 08 59 47.05 +27 56 03.4          18.2 Vq~1MmaD00
13813         C2015 03 08.73978 09 01 05.60 +28 33 18.0          17.5 Vq~1MmmD00
19954         C2015 03 08.73978 09 04 41.27 +27 06 17.8          17.7 Vq~1MnbD00
44518         C2015 03 08.73978 09 05 28.04 +27 59 20.5          19.1 Vq~1MqAD00
47848         C2015 03 08.73978 09 02 01.61 +28 16 51.7          18.7 Vq~1MqVD00
57152         C2015 03 08.73978 08 58 55.45 +28 22 14.6          18.7 Vq~1MrPD00
68602         C2015 03 08.73978 08 58 37.72 +27 49 38.4          18.1 Vq~1MsED00
05559         C2015 03 08.74161 09 18 08.84 +30 04 20.1          17.4 Vq~1M1ZD00
24728         C2015 03 08.74161 09 20 51.76 +28 51 37.8          20.7 Vq~1MoAD00
71944         C2015 03 08.74161 09 21 21.31 +29 54 32.2          19.8 Vq~1MsUD00
76727         C2015 03 08.74161 09 17 06.84 +30 10 37.5          19.2 Vq~1MsuD00
78759         C2015 03 08.74161 09 16 48.29 +29 08 18.5          20.2 Vq~1Mt8D00
P4510         C2015 03 08.74161 09 16 53.76 +28 36 52.8          19.4 Vq~1N1fD00
46750         C2015 03 08.74244 09 12 08.00 +29 11 42.1          18.1 Vq~1MqOD00
F6272         C2015 03 08.74244 09 11 27.53 +29 34 33.9          19.1 Vq~1MxqD00
X4942         C2015 03 08.74330 09 04 20.27 +29 36 01.5          19.1 Vq~1N3dD00
96246         C2015 03 08.74596 09 10 37.36 +27 32 58.1          18.6 Vq~1MuQD00
B4269         C2015 03 08.74596 09 12 09.54 +27 05 37.6          19.3 Vq~1MvdD00
12333         C2015 03 08.74682 08 59 46.74 +27 56 04.1          18.0 Vq~1MmaD00
13813         C2015 03 08.74682 09 01 05.40 +28 33 18.6          17.4 Vq~1MmmD00
19954         C2015 03 08.74682 09 04 40.98 +27 06 18.0          17.6 Vq~1MnbD00
44518         C2015 03 08.74682 09 05 27.78 +27 59 21.1          19.8 Vq~1MqAD00
47848         C2015 03 08.74682 09 02 01.33 +28 16 50.9          19.2 Vq~1MqVD00
57152         C2015 03 08.74682 08 58 55.21 +28 22 12.5          18.8 Vq~1MrPD00
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A6819         C2015 03 09.73317 11 04 53.26 +41 24 27.5          19.4 Vq~1Mv4D00
U9207         C2015 03 09.73403 10 53 35.50 +41 32 37.3          20.0 Vq~1N39D00
     K15E00M  C2015 03 09.73500 11 25 30.37 +42 41 10.8          19.4 Vq~1MkSD00
A7802         C2015 03 09.73940 11 18 59.08 +41 28 23.8          19.2 Vq~1Mv8D00
A6819         C2015 03 09.74025 11 04 52.53 +41 24 27.0          20.2 Vq~1Mv4D00
U9207         C2015 03 09.74111 10 53 34.73 +41 32 34.2          19.8 Vq~1N39D00
     K15E00M  C2015 03 09.74208 11 25 29.92 +42 41 17.0          19.4 Vq~1MkSD00
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A6819         C2015 03 09.74734 11 04 51.85 +41 24 25.7          20.2 Vq~1Mv4D00
U9207         C2015 03 09.74819 10 53 34.05 +41 32 30.6          19.6 Vq~1N39D00
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A7802         C2015 03 09.75356 11 18 57.81 +41 28 24.7          18.8 Vq~1Mv8D00
A6819         C2015 03 09.75442 11 04 51.14 +41 24 24.9          19.7 Vq~1Mv4D00
78794         C2015 03 09.75708 11 22 16.81 +39 42 23.3          18.7 Vq~1Mt8D00
84787         C2015 03 09.75975 11 27 35.24 +37 56 51.2          18.5 Vq~1MtiD00
B6618         C2015 03 09.75975 11 28 24.68 +38 04 21.5          18.5 Vq~1MvmD00
23615         C2015 03 09.76060 11 20 04.65 +38 07 30.0          17.2 Vq~1Mo2D00
N8026         C2015 03 09.76060 11 20 53.38 +37 53 45.1          19.9 Vq~1N1BD00
58879         C2015 03 09.76229 11 02 32.34 +38 27 25.7          17.1 Vq~1MrXD00
78794         C2015 03 09.76412 11 22 16.41 +39 42 24.6          18.7 Vq~1Mt8D00
84787         C2015 03 09.76678 11 27 34.93 +37 56 53.3          19.0 Vq~1MtiD00
B6618         C2015 03 09.76678 11 28 24.33 +38 04 22.9          18.5 Vq~1MvmD00
23615         C2015 03 09.76762 11 20 03.89 +38 07 28.6          17.2 Vq~1Mo2D00
N8026         C2015 03 09.76762 11 20 53.02 +37 53 45.4          20.4 Vq~1N1BD00
58879         C2015 03 09.76932 11 02 32.00 +38 27 27.9          17.1 Vq~1MrXD00
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84787         C2015 03 09.77378 11 27 34.50 +37 56 55.3          19.3 Vq~1MtiD00
B6618         C2015 03 09.77378 11 28 23.93 +38 04 24.4          18.6 Vq~1MvmD00
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58879         C2015 03 09.77633 11 02 31.66 +38 27 30.2          17.1 Vq~1MrXD00
78794         C2015 03 09.77816 11 22 15.64 +39 42 28.0          18.5 Vq~1Mt8D00
84787         C2015 03 09.78082 11 27 34.36 +37 56 58.0          18.9 Vq~1MtiD00
B6618         C2015 03 09.78082 11 28 23.72 +38 04 25.8          19.0 Vq~1MvmD00
23615         C2015 03 09.78168 11 20 02.34 +38 07 25.6          17.3 Vq~1Mo2D00
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     K15E00M KC2015 03 09.78774 11 25 27.03 +42 42 01.4          19.8 Vq~1MkSD00
     K15E00M KC2015 03 09.78997 11 25 26.85 +42 42 03.5          19.4 Vq~1MkSD00
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10856          C2015 03 10.69825 01 47 45.43 +31 03 52.2          19.2 Vq~1MmND00
02134          C2015 03 10.70260 01 39 26.35 +28 58 37.6          18.6 Vq~1MkyD00
02134          C2015 03 10.70346 01 39 26.52 +28 58 38.5          18.9 Vq~1MkyD00
10856          C2015 03 10.70527 01 47 46.10 +31 03 54.3          19.1 Vq~1MmND00
02134          C2015 03 10.70963 01 39 27.20 +28 58 43.3          18.6 Vq~1MkyD00
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05841          C2015 03 10.72720 02 12 30.92 +30 34 17.3          19.3 Vq~1MlbD00
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05841          C2015 03 10.73420 02 12 32.06 +30 34 22.0          19.8 Vq~1MlcD00
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     K15E00M KC2015 03 10.75502 11 24 29.14 +42 56 39.6          19.5 Vq~1MkSD00
72248          C2015 03 10.75927 10 51 36.88 +42 17 34.3          19.6 Vq~1MsWD00
80058          C2015 03 10.75927 10 45 00.96 +40 46 33.4          18.8 Vq~1MtGD00
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     K08X48P   C2015 03 10.76184 10 24 34.18 +41 47 06.7          20.3 Vq~1Mj3D00
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U9207          C2015 03 10.76635 10 51 52.50 +41 24 44.3          20.2 Vq~1N39D00
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     K08X48P   C2015 03 10.77601 10 24 33.56 +41 47 10.8          19.6 Vq~1Mj3D00
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80058          C2015 03 10.78052 10 44 59.80 +40 46 39.9          19.2 Vq~1MtGD00
U9207          C2015 03 10.78052 10 51 51.10 +41 24 37.9          20.4 Vq~1N39D00
     K08X48P   C2015 03 10.78309 10 24 33.07 +41 47 12.7          20.5 Vq~1Mj3D00
g5468          C2015 03 10.78492 10 39 55.94 +43 03 57.1          20.4 Vq~1N5ED00
     K15E00M KC2015 03 10.79053 11 24 26.89 +42 57 12.4          19.7 Vq~1MkSD00
42111          C2015 03 10.79773 11 05 32.60 +45 24 17.4          18.5 Vq~1MpwD00
     K06WC3W   C2015 03 10.79956 11 27 17.19 +47 24 47.6          20.2 Vq~1Q3WD00
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     K06WC3W   C2015 03 10.80664 11 27 16.72 +47 24 53.2          19.5 Vq~1Q3WD00
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     K06WC3W   C2015 03 10.81373 11 27 16.14 +47 24 58.0          20.0 Vq~1Q3WD00
03483          C2015 03 10.81458 11 18 16.36 +47 36 21.3          17.3 Vq~1M1ED00
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     K06WC3W   C2015 03 10.82081 11 27 15.68 +47 25 03.2          19.5 Vq~1Q3WD00
03483          C2015 03 10.82167 11 18 15.73 +47 36 23.4          17.3 Vq~1M1ED00
     K15E00M KC2015 03 10.82775 11 24 24.45 +42 57 46.3          19.8 Vq~1MkSD00
     K06WC3W KC2015 03 10.88618 11 27 11.44 +47 25 45.7          20.0 Vq~1Q3WD00
     K06WC3W KC2015 03 10.88988 11 27 11.13 +47 25 49.4          19.5 Vq~1Q3WD00
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ISON-NM (H15)

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09209          C2015 03 15.12258 10 03 53.09 +16 20 54.0          18.5 Ro~1NHcH15
18710          C2015 03 15.12258 10 01 03.49 +16 58 07.0          17.2 Ro~1NMeH15
20118          C2015 03 15.12258 10 01 35.76 +15 25 15.8          18.6 Ro~1NNKH15
24806          C2015 03 15.12258 10 03 40.87 +16 31 11.9          19.9 Ro~1NPcH15
35853          C2015 03 15.12258 10 02 59.07 +15 36 18.3          19.4 Ro~1NUJH15
38157          C2015 03 15.12258 10 02 41.38 +16 28 20.0          19.3 Ro~1NVCH15
38692          C2015 03 15.12258 10 02 39.92 +16 28 24.5          19.1 Ro~1NVPH15
39456          C2015 03 15.12258 10 02 26.76 +15 33 10.4          19.2 Ro~1NViH15
39655          C2015 03 15.12258 10 02 49.36 +16 54 10.3          19.2 Ro~1NVpH15
47507          C2015 03 15.12258 10 04 15.64 +16 27 32.2          18.9 Ro~1NZ3H15
48509          C2015 03 15.12258 10 02 40.65 +16 26 30.4          18.6 Ro~1NZUH15
54591          C2015 03 15.12258 10 04 24.83 +15 49 02.2          18.4 Ro~1NbtH15
56710          C2015 03 15.12258 10 05 18.67 +16 36 09.6          19.2 Ro~1NcbH15
58807          C2015 03 15.12258 10 08 17.87 +15 51 50.5          19.8 Ro~1NdDH15
59283          C2015 03 15.12258 10 05 58.59 +16 36 40.9          18.7 Ro~1NdIH15
68830          C2015 03 15.12258 10 01 51.24 +16 42 36.2          19.4 Ro~1NgHH15
74039          C2015 03 15.12258 10 03 34.71 +16 42 23.8          18.9 Ro~1NiAH15
79017          C2015 03 15.12258 10 08 15.60 +15 31 16.7          19.1 Ro~1NkGH15
81127          C2015 03 15.12258 10 02 47.68 +15 42 24.5          18.9 Ro~1Nl9H15
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90417          C2015 03 15.12258 10 05 04.45 +16 13 28.6          20.4 Ro~1NnmH15
93421          C2015 03 15.12258 10 02 59.91 +16 22 12.9          18.5 Ro~1NoSH15
98368          C2015 03 15.12258 10 06 41.75 +15 40 42.6          19.8 Ro~1NprH15
A6837          C2015 03 15.12258 10 04 16.32 +16 06 36.3          19.5 Ro~1NryH15
C3851          C2015 03 15.12258 10 02 27.09 +15 29 01.8          20.1 Ro~1NwRH15
C6448          C2015 03 15.12258 10 02 27.96 +16 07 48.6          19.6 Ro~1NwrH15
D0251          C2015 03 15.12258 10 04 17.77 +15 37 07.4          19.9 Ro~1NxaH15
E1573          C2015 03 15.12258 10 05 37.93 +17 03 10.2          19.7 Ro~1O0OH15
E4233          C2015 03 15.12258 10 03 23.68 +15 52 55.1          19.5 Ro~1O0dH15
E5965          C2015 03 15.12258 10 01 49.86 +16 07 44.6          19.9 Ro~1O0xH15
F7892          C2015 03 15.12258 10 03 55.81 +15 53 24.0          19.8 Ro~1O36H15
G3062          C2015 03 15.12258 10 06 54.05 +15 55 35.5          19.8 Ro~1O3sH15
H1505          C2015 03 15.12258 10 06 37.43 +16 10 13.9          19.8 Ro~1O5MH15
H7192          C2015 03 15.12258 10 04 33.34 +15 51 27.1          19.9 Ro~1O6DH15
I6774          C2015 03 15.12258 10 03 11.70 +16 59 51.8          19.4 Ro~1O7gH15
I6796          C2015 03 15.12258 10 05 53.20 +16 19 46.5          19.6 Ro~1O7hH15
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09062          C2015 03 15.12515 10 03 33.01 +18 06 12.4          17.7 Ro~1NHXH15
16767          C2015 03 15.12515 10 01 05.65 +17 39 13.3          19.4 Ro~1NLhH15
26603          C2015 03 15.12515 10 04 57.27 +17 35 55.9          18.0 Ro~1NQPH15
34242          C2015 03 15.12515 10 06 48.12 +18 56 31.5          18.8 Ro~1NTfH15
34309          C2015 03 15.12515 10 01 08.32 +18 25 27.4          19.5 Ro~1NThH15
45907          C2015 03 15.12515 10 01 00.36 +17 36 51.8          18.3 Ro~1NYMH15
72387          C2015 03 15.12515 10 04 20.20 +18 54 09.7          19.3 Ro~1NhcH15
76182          C2015 03 15.12515 10 06 07.86 +18 29 16.7          19.5 Ro~1Nj3H15
76557          C2015 03 15.12515 10 04 14.13 +17 46 20.5          18.7 Ro~1Nj9H15
79276          C2015 03 15.12515 10 05 46.01 +17 41 42.8          19.3 Ro~1NkNH15
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C7191          C2015 03 15.12515 10 07 31.49 +17 46 06.1          19.8 Ro~1Nx5H15
G9488          C2015 03 15.12515 10 05 02.04 +18 49 31.0          19.2 Ro~1O57H15
G9491          C2015 03 15.12515 10 01 05.87 +18 08 53.0          19.9 Ro~1O57H15
g8281          C2015 03 15.12515 10 03 50.45 +18 37 28.4          20.2 Ro~1ORdH15
49122          C2015 03 15.12811 10 05 55.51 +20 36 30.9          20.1 Ro~1NZmH15
57831          C2015 03 15.12811 10 06 13.37 +20 11 05.6          19.2 Ro~1NcuH15
58808          C2015 03 15.12811 10 01 36.94 +20 35 30.7          19.7 Ro~1NdEH15
58864          C2015 03 15.12811 10 00 27.33 +19 51 57.3          18.7 Ro~1NdEH15
63840          C2015 03 15.12811 10 05 26.34 +20 14 34.8          19.5 Ro~1NeeH15
63843          C2015 03 15.12811 10 02 22.38 +19 39 14.7          18.4 Ro~1NeeH15
69107          C2015 03 15.12811 10 06 24.69 +19 35 22.2          19.7 Ro~1NgMH15
76775          C2015 03 15.12811 10 02 38.86 +19 22 56.5          19.0 Ro~1NjIH15
83031          C2015 03 15.12811 10 06 32.15 +20 23 16.0          19.4 Ro~1Nl1H15
93415          C2015 03 15.12811 10 02 13.62 +19 09 20.3          19.8 Ro~1NoSH15
94099          C2015 03 15.12811 10 04 51.22 +20 10 00.1          19.5 Ro~1NonH15
97071          C2015 03 15.12811 10 01 02.36 +19 44 43.6          18.9 Ro~1NpPH15
D9132          C2015 03 15.12811 10 05 59.36 +20 39 23.2          19.1 Ro~1NzeH15
F6918          C2015 03 15.12811 10 06 10.28 +19 21 39.7          18.9 Ro~1O2wH15
G7554          C2015 03 15.12811 10 01 35.57 +20 21 18.3          18.9 Ro~1O4iH15
J8764          C2015 03 15.12811 10 04 07.00 +19 54 11.2          19.4 Ro~1O9XH15
Q9085          C2015 03 15.12811 10 05 45.97 +19 12 19.2          20.0 Ro~1OHtH15
W2358          C2015 03 15.12811 10 05 59.89 +19 06 38.0          19.9 Ro~1OLGH15
00384          C2015 03 15.12812 10 05 27.67 +20 41 13.5          12.9 Ro~1NC2H15
02784          C2015 03 15.12812 10 06 43.48 +20 18 29.5          16.5 Ro~1NDjH15
06664          C2015 03 15.12812 10 01 08.34 +19 59 05.9          16.9 Ro~1NG1H15
10623          C2015 03 15.12812 10 06 00.51 +19 23 16.3          18.0 Ro~1NIPH15
14204          C2015 03 15.12812 10 03 03.26 +20 31 22.0          18.2 Ro~1NKNH15
16988          C2015 03 15.12812 10 01 42.27 +20 15 41.0          18.8 Ro~1NLoH15
23145          C2015 03 15.12812 10 05 39.09 +20 31 54.2          19.2 Ro~1NOoH15
24186          C2015 03 15.12812 10 04 10.64 +19 44 09.2          18.3 Ro~1NPKH15
40952          C2015 03 15.12812 10 02 05.34 +19 44 02.9          19.3 Ro~1NWKH15
     K15E15N   C2015 03 15.13065 10 00 42.58 +21 40 11.4          19.3 Ro~1NAiH15
12498          C2015 03 15.13065 10 03 10.83 +20 46 30.5          18.2 Ro~1NJTH15
16495          C2015 03 15.13065 10 04 50.82 +20 43 40.0          17.8 Ro~1NLYH15
29195          C2015 03 15.13065 09 59 43.16 +22 00 45.5          18.3 Ro~1NRYH15
33993          C2015 03 15.13065 10 07 13.38 +21 03 01.7          18.6 Ro~1NTZH15
42915          C2015 03 15.13065 10 03 37.32 +21 57 57.1          19.3 Ro~1NX6H15
43216          C2015 03 15.13065 10 07 07.50 +21 36 52.6          18.7 Ro~1NXDH15
44698          C2015 03 15.13065 10 02 01.83 +20 39 43.3          17.9 Ro~1NXmH15
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56698          C2015 03 15.13065 10 04 36.42 +20 54 22.6          18.7 Ro~1NcaH15
60182          C2015 03 15.13065 10 02 32.62 +21 41 18.8          17.4 Ro~1NdbH15
65127          C2015 03 15.13065 10 05 21.67 +21 47 00.4          19.3 Ro~1NeyH15
70559          C2015 03 15.13065 10 02 22.26 +21 34 11.2          17.9 Ro~1NgwH15
80688          C2015 03 15.13065 10 00 56.34 +21 24 50.4          18.7 Ro~1NkwH15
E2394          C2015 03 15.13065 10 03 26.20 +21 53 33.6          19.0 Ro~1O0HH15
E5050          C2015 03 15.13065 10 02 06.52 +21 30 16.4          19.3 Ro~1O0pH15
F2765          C2015 03 15.13065 10 03 46.42 +21 37 32.4          19.4 Ro~1O28H15
F4575          C2015 03 15.13065 10 00 04.95 +21 13 58.5          19.2 Ro~1O2XH15
G0332          C2015 03 15.13065 10 01 00.51 +22 19 02.8          19.7 Ro~1O3VH15
I3017          C2015 03 15.13065 10 04 36.60 +21 56 16.4          19.5 Ro~1O72H15
N2236          C2015 03 15.13065 10 05 08.39 +22 15 54.0          19.5 Ro~1ODaH15
N6744          C2015 03 15.13065 10 04 11.45 +21 26 59.5          19.7 Ro~1OELH15
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06077          C2015 03 15.13316 10 05 01.67 +16 37 39.6          17.4 Ro~1NFfH15
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09209          C2015 03 15.13316 10 03 52.60 +16 20 55.2          18.3 Ro~1NHcH15
18710          C2015 03 15.13316 10 01 03.10 +16 58 09.8          17.1 Ro~1NMeH15
20118          C2015 03 15.13316 10 01 35.37 +15 25 17.6          18.5 Ro~1NNKH15
24806          C2015 03 15.13316 10 03 40.34 +16 31 12.8          19.6 Ro~1NPcH15
35853          C2015 03 15.13316 10 02 58.65 +15 36 21.8          19.5 Ro~1NUJH15
38157          C2015 03 15.13316 10 02 40.87 +16 28 24.0          19.3 Ro~1NVCH15
38692          C2015 03 15.13316 10 02 39.44 +16 28 28.6          19.2 Ro~1NVPH15
39456          C2015 03 15.13316 10 02 26.32 +15 33 12.8          18.8 Ro~1NViH15
39655          C2015 03 15.13316 10 02 48.95 +16 54 10.7          19.2 Ro~1NVpH15
47507          C2015 03 15.13316 10 04 15.11 +16 27 34.7          18.9 Ro~1NZ3H15
48509          C2015 03 15.13316 10 02 40.15 +16 26 32.9          18.5 Ro~1NZUH15
54591          C2015 03 15.13316 10 04 24.32 +15 49 05.9          18.5 Ro~1NbtH15
56710          C2015 03 15.13316 10 05 18.17 +16 36 12.0          19.4 Ro~1NcbH15
58807          C2015 03 15.13316 10 08 17.44 +15 51 52.8          19.2 Ro~1NdDH15
59283          C2015 03 15.13316 10 05 58.04 +16 36 40.1          18.9 Ro~1NdIH15
68830          C2015 03 15.13316 10 01 50.86 +16 42 40.5          19.5 Ro~1NgHH15
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74039	C2015 03 15.13316 10 03 34.18 +16 42 24.2	19.0 Ro~lNiAH15
79017	C2015 03 15.13316 10 08 15.09 +15 31 19.1	18.8 Ro~lNkGH15
81127	C2015 03 15.13316 10 02 47.20 +15 42 26.8	19.1 Ro~lNl9H15
87262	C2015 03 15.13316 10 05 21.46 +15 46 04.8	19.6 Ro~lNmtH15
90417	C2015 03 15.13316 10 05 03.91 +16 13 31.3	20.1 Ro~lNnmH15
93421	C2015 03 15.13316 10 02 59.37 +16 22 11.1	18.4 Ro~lNoSH15
98368	C2015 03 15.13316 10 06 41.23 +15 40 43.0	20.0 Ro~lNprH15
A6837	C2015 03 15.13316 10 04 15.76 +16 06 39.0	19.4 Ro~lNryH15
C3851	C2015 03 15.13316 10 02 26.65 +15 29 03.6	19.7 Ro~lNwRH15
C6448	C2015 03 15.13316 10 02 27.49 +16 07 49.8	19.2 Ro~lNwrH15
D0251	C2015 03 15.13316 10 04 17.38 +15 37 11.2	19.7 Ro~lNxaH15
E1573	C2015 03 15.13316 10 05 37.41 +17 03 10.4	19.6 Ro~lO0OH15
E4233	C2015 03 15.13316 10 03 23.27 +15 52 58.9	19.2 Ro~lO0dH15
E5965	C2015 03 15.13316 10 01 49.48 +16 07 47.2	20.1 Ro~lO0xH15
F7892	C2015 03 15.13316 10 03 55.32 +15 53 27.3	19.9 Ro~lO36H15
G3062	C2015 03 15.13316 10 06 53.47 +15 55 38.5	19.7 Ro~lO3sH15
H1505	C2015 03 15.13316 10 06 37.02 +16 10 15.5	19.5 Ro~lO5MH15
H7192	C2015 03 15.13316 10 04 32.82 +15 51 29.3	20.5 Ro~lO6DH15
I6774	C2015 03 15.13316 10 03 11.36 +16 59 54.6	19.4 Ro~lO7gH15
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24186	C2015 03 15.13895 10 04 10.15 +19 44 10.0	18.4 Ro~lNPKH15
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69107	C2015 03 15.15170 10 06 23.70 +19 35 27.4	19.3 Ro~lNgMH15
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83031	C2015 03 15.15170 10 06 31.25 +20 23 19.6	19.0 Ro~lNllH15
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94099	C2015 03 15.15170 10 04 50.16 +20 10 03.3	19.7 Ro~lNonH15
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G7554	C2015 03 15.15170 10 01 34.67 +20 21 21.6	18.9 Ro~lO4iH15
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29195	C2015 03 15.15417 09 59 42.24 +22 00 50.6	18.4 Ro~lNRYH15
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56698	C2015 03 15.15417 10 04 35.48 +20 54 31.3	18.5 Ro~lNcaH15
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70559	C2015 03 15.15417 10 02 21.00 +21 34 12.1	17.9 Ro~lNgwH15
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43390         C2015 03 16.27065 12 07 20.22 +28 43 16.5          17.5 Ro~1NXGH15
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32896         C2015 03 16.28755 12 06 19.66 +28 48 50.0          18.6 Ro~1NT6H15
43390         C2015 03 16.28755 12 07 19.44 +28 43 22.4          17.6 Ro~1NXGH15
79510         C2015 03 16.28755 12 12 50.52 +27 29 06.3          18.2 Ro~1NkTH15
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D9058	C2015 03 16.29280 12 08 50.38 +28 58 35.8	17.5	Ro~lNzbH15	B1297	C2015 03 16.45555 13 00 27.57 +35 00 46.5	18.6	Ro~lNtPH15
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C7329	C2015 03 16.36978 12 54 17.20 +21 20 13.0	18.8	Ro~lNx8H15	12034	C2015 03 17.11918 11 34 36.94 +14 34 52.3	19.1	Ro~lNJFH15
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98846	C2015 03 17.17042 11 44 14.32 +14 41 54.8	19.0	Ro~lNpyH15	46332	C2015 03 17.19622 11 53 05.18 +10 23 27.9	18.2	Ro~lNYWH15
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G0852	C2015 03 17.17042 11 43 05.55 +15 27 33.1	18.7	Ro~lO3YH15	54588	C2015 03 17.19622 11 51 45.16 +10 03 54.2	17.4	Ro~lNbtH15
J5393	C2015 03 17.17042 11 42 27.20 +14 36 46.2	19.5	Ro~lO8sH15	55690	C2015 03 17.19622 11 51 41.93 +09 44 31.1	17.7	Ro~lNcLH15
04669	C2015 03 17.17360 11 40 00.28 +09 32 08.8	17.0	Ro~lNEsH15	74570	C2015 03 17.19622 11 51 55.14 +09 33 26.3	18.7	Ro~lNiLH15
10158	C2015 03 17.17360 11 44 22.94 +09 33 42.6	18.2	Ro~lNIAH15	87965	C2015 03 17.19622 11 46 25.94 +10 21 05.5	18.4	Ro~lNnEH15
18676	C2015 03 17.17360 11 41 58.32 +10 31 56.1	17.7	Ro~lNMdH15	91217	C2015 03 17.19622 11 52 53.02 +09 47 25.6	17.2	Ro~lNnyH15
25458	C2015 03 17.17360 11 41 53.40 +09 18 10.3	17.4	Ro~lNPtH15	A6680	C2015 03 17.19622 11 49 44.16 +09 38 23.7	18.2	Ro~lNrvH15
26672	C2015 03 17.17360 11 40 21.53 +09 32 03.5	17.3	Ro~lNQSH15	H4095	C2015 03 17.19622 11 50 50.01 +10 28 11.5	18.5	Ro~lO5mH15
29869	C2015 03 17.17360 11 45 20.62 +10 39 36.5	17.4	Ro~lNRnH15	N2709	C2015 03 17.19622 11 52 10.11 +09 42 35.0	18.7	Ro~lODgH15
41817	C2015 03 17.17360 11 41 15.19 +09 47 20.5	17.1	Ro~lNWeH15	21833	C2015 03 17.19903 11 47 46.58 +12 08 29.5	18.6	Ro~lNODH15
42541	C2015 03 17.17360 11 42 53.95 +08 58 30.8	18.2	Ro~lNWwH15	75682	C2015 03 17.19903 11 49 10.68 +11 48 53.0	18.7	Ro~lNiwH15
49461	C2015 03 17.17360 11 41 38.91 +09 22 38.9	17.2	Ro~lNZwH15	82091	C2015 03 17.19903 11 52 14.54 +10 56 23.1	18.0	Ro~lNlPH15
67654	C2015 03 17.17360 11 41 30.02 +10 19 44.1	18.8	Ro~lNfpH15	82300	C2015 03 17.19903 11 51 19.89 +11 54 27.6	18.2	Ro~lNlTH15
74802	C2015 03 17.17360 11 40 11.99 +09 04 08.3	19.2	Ro~lNiUH15	A2468	C2015 03 17.19903 11 50 27.47 +12 18 53.2	19.1	Ro~lNqyH15
96710	C2015 03 17.17360 11 42 56.23 +10 08 42.3	18.2	Ro~lNpJH15	C3879	C2015 03 17.19903 11 49 50.36 +12 20 17.8	18.2	Ro~lNwRH15
A2170	C2015 03 17.17360 11 42 31.03 +10 01 16.3	18.9	Ro~lNqsH15	E3302	C2015 03 17.19903 11 49 33.96 +12 06 06.2	18.5	Ro~lO0NH15
A2909	C2015 03 17.17360 11 43 46.37 +10 27 42.3	18.4	Ro~lNr5H15	F6005	C2015 03 17.19903 11 49 37.31 +10 55 54.3	19.3	Ro~lO2hH15
A7145	C2015 03 17.17360 11 44 11.00 +09 43 33.8	18.9	Ro~lNs4H15	M9963	C2015 03 17.19903 11 49 59.52 +11 07 48.2	19.2	Ro~lODBH15
D0034	C2015 03 17.17360 11 43 54.25 +09 21 20.0	19.1	Ro~lNxYH15	Q3570	C2015 03 17.19903 11 48 57.76 +11 09 02.8	18.5	Ro~lOGyH15
E0718	C2015 03 17.17360 11 42 43.88 +10 05 53.9	18.7	Ro~lNzvH15	S8218	C2015 03 17.19903 11 51 30.31 +11 21 39.6	19.5	Ro~lOK9H15
E4005	C2015 03 17.17360 11 44 38.96 +09 05 52.0	18.3	Ro~lO0YH15	01384	C2015 03 17.20837 11 47 16.89 +08 57 24.2	14.9	Ro~lNCjH15
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I5979	C2015 03 17.17360 11 46 12.72 +10 32 16.0	18.7	Ro~lO7XH15	20808	C2015 03 17.20837 11 53 21.86 +10 12 25.5	17.6	Ro~lNNfH15
N1696	C2015 03 17.17360 11 44 09.28 +09 59 41.7	18.2	Ro~lODVH15	21956	C2015 03 17.20837 11 51 59.40 +08 59 05.7	17.0	Ro~lNOHH15
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45940	C2015 03 17.17615 11 44 59.22 +11 54 49.4	17.6	Ro~lNYNH15	49617	C2015 03 17.20837 11 52 28.90 +10 03 51.5	17.4	Ro~lNa2H15
71906	C2015 03 17.17615 11 40 31.38 +11 37 26.9	18.6	Ro~lNhMH15	54588	C2015 03 17.20837 11 51 44.43 +10 03 54.1	17.5	Ro~lNbtH15
75089	C2015 03 17.17615 11 44 20.87 +11 22 15.1	17.9	Ro~lNicH15	55690	C2015 03 17.20837 11 51 41.22 +09 44 31.5	17.7	Ro~lNcLH15
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A6892	C2015 03 17.17615 11 44 17.89 +10 50 08.1	18.9	Ro~lNs0H15	87965	C2015 03 17.20837 11 46 25.32 +10 21 07.8	18.2	Ro~lNnEH15
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D2465	C2015 03 17.17615 11 44 56.22 +11 22 31.2	18.8	Ro~lNxuH15	A6680	C2015 03 17.20837 11 49 43.44 +09 38 28.6	18.2	Ro~lNrvH15
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F6005	C2015 03 17.21099 11 49 36.70 +10 55 59.1	18.6 Ro~1O2hH15
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Q3570	C2015 03 17.21099 11 48 57.07 +11 09 06.7	18.5 Ro~1OGyH15
S8218	C2015 03 17.21099 11 51 29.56 +11 21 44.1	18.9 Ro~1OK9H15
31664	C2015 03 19.20550 10 02 55.65 -09 52 26.6	17.5 Ro~1NSXH15
66150	C2015 03 19.20550 10 04 10.75 -10 13 46.3	17.8 Ro~1NfGH15
93030	C2015 03 19.20550 10 04 40.55 -10 01 00.4	18.1 Ro~1NoKH15
A9417	C2015 03 19.20550 10 01 14.32 -09 48 33.8	19.1 Ro~1NsmH15
F6135	C2015 03 19.20550 10 07 06.53 -09 08 02.9	19.1 Ro~1O2iH15
J3430	C2015 03 19.20550 10 06 12.49 -10 14 41.3	19.0 Ro~1O8hH15
K7562	C2015 03 19.20550 10 02 40.13 -09 12 31.9	19.6 Ro~1OAYH15
19266	C2015 03 19.20812 10 02 33.00 -07 21 39.0	18.4 Ro~1NMvH15
30434	C2015 03 19.20812 10 06 52.26 -07 48 54.3	17.7 Ro~1NS0H15
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93969	C2015 03 19.20812 10 07 39.28 -08 37 16.6	18.5 Ro~1NojH15
G5838	C2015 03 19.20812 10 04 25.02 -08 37 05.7	19.1 Ro~1O4PH15
H2046	C2015 03 19.20812 10 02 19.05 -08 13 51.3	19.8 Ro~1O5UH15
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07237	C2015 03 19.21323 10 08 33.29 -07 14 43.1	17.0 Ro~1NGKH15
07644	C2015 03 19.21323 10 14 17.86 -07 05 20.8	17.6 Ro~1NGdH15
10259	C2015 03 19.21323 10 11 19.79 -07 45 23.7	17.0 Ro~1NIDH15
33244	C2015 03 19.21323 10 12 39.76 -08 28 17.6	17.8 Ro~1NTFH15
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K1680	C2015 03 19.21323 10 10 50.82 -07 33 26.2	19.6 Ro~1O9rH15
M8334	C2015 03 19.21323 10 11 53.42 -07 18 03.7	19.1 Ro~1OCtH15
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R7778	C2015 03 19.21323 10 08 56.00 -07 28 06.8	19.1 Ro~1OJFH15
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A9417	C2015 03 19.21611 10 01 13.92 -09 48 31.2	18.8 Ro~1NsmH15
F6135	C2015 03 19.21611 10 07 06.06 -09 07 59.4	18.9 Ro~1O2iH15
J3430	C2015 03 19.21611 10 06 12.08 -10 14 37.5	18.7 Ro~1O8hH15
K7562	C2015 03 19.21611 10 02 39.67 -09 12 30.1	19.9 Ro~1OAYH15
19266	C2015 03 19.21894 10 02 32.60 -07 21 34.6	18.5 Ro~1NMvH15
30434	C2015 03 19.21894 10 06 51.84 -07 48 50.6	17.8 Ro~1NS0H15
62826	C2015 03 19.21894 10 06 40.13 -08 25 42.4	19.1 Ro~1NeLH15
93969	C2015 03 19.21894 10 07 38.81 -08 37 12.3	18.6 Ro~1NojH15
G5838	C2015 03 19.21894 10 04 24.67 -08 36 59.7	18.8 Ro~1O4PH15
H2046	C2015 03 19.21894 10 02 18.73 -08 13 49.4	19.3 Ro~1O5UH15
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07237	C2015 03 19.22403 10 08 32.80 -07 14 38.3	17.0 Ro~1NGKH15
07644	C2015 03 19.22403 10 14 17.42 -07 05 15.1	17.6 Ro~1NGdH15
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K1680	C2015 03 19.22403 10 10 50.38 -07 33 22.0	19.5 Ro~1O9rH15
M8334	C2015 03 19.22403 10 11 52.98 -07 17 59.0	19.4 Ro~1OCtH15
N1458	C2015 03 19.22403 10 11 25.04 -08 02 19.2	18.6 Ro~1ODSH15
R7778	C2015 03 19.22403 10 08 55.68 -07 27 58.9	19.2 Ro~1OJFH15
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66150	C2015 03 19.22799 10 04 08.85 -10 13 47.9	18.2 Ro~1NfGH15
93030	C2015 03 19.22799 10 04 39.52 -10 00 53.0	18.5 Ro~1NoKH15
A9417	C2015 03 19.22799 10 01 13.56 -09 48 26.6	19.2 Ro~1NsmH15
F6135	C2015 03 19.22799 10 07 05.45 -09 07 55.9	19.5 Ro~1O2iH15
J3430	C2015 03 19.22799 10 06 11.59 -10 14 32.3	19.3 Ro~1O8hH15
K7562	C2015 03 19.22799 10 02 39.15 -09 12 30.7	19.8 Ro~1OAYH15
19266	C2015 03 19.23064 10 02 32.12 -07 21 30.1	18.7 Ro~1NMvH15
30434	C2015 03 19.23064 10 06 51.33 -07 48 45.6	18.3 Ro~1NS0H15
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93969	C2015 03 19.23064 10 07 38.17 -08 37 09.0	18.8 Ro~1NojH15
G5838	C2015 03 19.23064 10 04 24.35 -08 36 52.7	19.1 Ro~1O4PH15
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33244	C2015 03 19.23573 10 12 39.03 -08 28 05.6	18.0 Ro~1NTFH15
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M8334	C2015 03 19.23573 10 11 52.50 -07 17 52.6	19.4 Ro~1OCtH15
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87761	C2015 03 19.23829 10 18 32.32 -10 56 05.9	18.8 Ro~1Nn9H15
95917	C2015 03 19.23829 10 17 19.96 -10 59 30.8	19.2 Ro~1Np8H15
F5702	C2015 03 19.23829 10 18 55.60 -11 00 10.4	19.2 Ro~1O2eH15
F9416	C2015 03 19.23829 10 19 28.56 -10 54 57.7	19.4 Ro~1O3MH15
f6961	C2015 03 19.23829 10 20 52.57 -10 43 34.9	19.4 Ro~1OQEH15
g7494	C2015 03 19.23829 10 19 18.76 -11 57 12.4	19.5 Ro~1ORRH15
44296	C2015 03 19.24082 10 27 03.82 -13 37 21.9	17.6 Ro~1NXeH15
93104	C2015 03 19.24082 10 23 42.37 -12 25 33.5	19.6 Ro~1NoKH15
E4481	C2015 03 19.24082 10 24 16.77 -13 04 00.8	19.0 Ro~1O0iH15
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72200	C2015 03 19.24581 10 28 12.67 -10 27 10.4	17.8 Ro~1NhWH15
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F5325	C2015 03 19.24581 10 25 48.93 -10 01 20.3	19.0 Ro~1O2bH15
G5913	C2015 03 19.24581 10 25 36.90 -10 28 17.5	19.6 Ro~1O4SH15
L3552	C2015 03 19.24581 10 23 13.29 -09 08 36.4	17.6 Ro~1OAwH15
62265	C2015 03 19.24934 10 18 33.33 -12 11 08.9	18.8 Ro~1NeCH15
87761	C2015 03 19.24934 10 18 31.79 -10 56 01.6	18.6 Ro~1Nn9H15
95917	C2015 03 19.24934 10 17 19.52 -10 59 24.3	18.9 Ro~1Np8H15
F5702	C2015 03 19.24934 10 18 55.10 -11 00 06.3	18.9 Ro~1O2eH15
F9416	C2015 03 19.24934 10 19 27.92 -10 54 53.5	19.1 Ro~1O3MH15
f6961	C2015 03 19.24934 10 20 51.98 -10 43 32.6	19.5 Ro~1OQEH15
g7494	C2015 03 19.24934 10 19 17.54 -11 57 16.0	19.4 Ro~1ORRH15
44296	C2015 03 19.25188 10 27 03.24 -13 37 17.1	17.4 Ro~1NXeH15
93104	C2015 03 19.25188 10 23 41.92 -12 25 28.5	19.4 Ro~1NoKH15
E4481	C2015 03 19.25188 10 24 16.32 -13 03 56.6	18.9 Ro~1O0iH15
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72200	C2015 03 19.25692 10 28 12.09 -10 27 08.9	17.5 Ro~1NhWH15
82918	C2015 03 19.25692 10 28 11.30 -10 29 51.3	19.2 Ro~1N1iH15
F5325	C2015 03 19.25692 10 25 48.48 -10 01 15.0	18.7 Ro~1O2bH15
G5913	C2015 03 19.25692 10 25 36.49 -10 28 13.0	19.2 Ro~1O4SH15
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F5702	C2015 03 19.26013 10 18 54.62 -11 00 01.7	18.7 Ro~1O2eH15
F9416	C2015 03 19.26013 10 19 27.45 -10 54 48.3	19.2 Ro~1O3MH15
f6961	C2015 03 19.26013 10 20 51.51 -10 43 29.7	19.9 Ro~1OQEH15
g7494	C2015 03 19.26013 10 19 16.39 -11 57 18.8	19.3 Ro~1ORRH15
44296	C2015 03 19.26272 10 27 02.68 -13 37 12.4	17.5 Ro~1NXeH15
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G5913	C2015 03 19.26778 10 25 36.09 -10 28 09.1	19.6 Ro~1O4SH15
L3552	C2015 03 19.26778 10 23 12.41 -09 08 26.0	17.7 Ro~1OAwH15
63703	C2015 03 19.27137 10 28 43.44 -08 21 58.9	18.8 Ro~1NecH15
87181	C2015 03 19.27137 10 28 12.31 -08 23 04.9	18.8 Ro~1NmrH15
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X3465	C2015 03 19.27137 10 23 35.61 -07 08 13.0	19.1 Ro~1OM7H15
Y6297	C2015 03 19.27137 10 26 25.05 -08 11 27.3	19.1 Ro~1ONAH15
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20486	C2015 03 19.27391 10 17 56.54 -08 16 31.4	17.6 Ro~1NNXH15
22697	C2015 03 19.27391 10 21 59.19 -08 06 34.8	16.8 Ro~1NOdH15
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83136	C2015 03 19.27391 10 17 34.05 -07 53 20.5	18.3 Ro~1N1nH15
96512	C2015 03 19.27391 10 17 16.28 -07 52 11.5	19.1 Ro~1NpGH15
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K100A7M	C2015 03 19.27646 10 17 36.47 -09 55 51.6	19.9 Ro~1N73H15
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80051	C2015 03 19.27646 10 19 43.15 -10 12 58.3	17.6 Ro~1NkhH15
95236	C2015 03 19.27646 10 18 19.70 -09 06 40.7	18.5 Ro~1NozH15
31704	C2015 03 19.27915 10 19 02.61 -13 30 32.5	17.8 Ro~1NSYH15
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P3999	C2015 03 19.27915 10 17 11.22 -13 05 37.0	19.0 Ro~1OG5H15
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X3465	C2015 03 19.28224 10 23 34.97 -07 08 11.0	19.2 Ro~1OM7H15
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67056          C2015 03 22.37225 12 50 28.43 +17 31 24.6          19.0 Ro~1OlAH15
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31548          C2015 03 22.37596 12 55 47.98 +20 01 45.9          16.2 Ro~1OevH15
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S1249          C2015 03 22.37596 12 55 03.17 +19 42 25.7          19.4 Ro~1P7IH15
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40046	C2015 03 22.38979 12 49 26.60 +20 51 23.1	16.4	Ro~lOgXH15
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77927	C2015 03 22.38979 12 52 26.40 +20 03 05.1	18.0	Ro~lOn2H15
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F3731	C2015 03 22.39498 12 39 44.33 +21 09 38.1	19.3	Ro~lOwXH15
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R2660	C2015 03 22.39498 12 41 31.00 +21 10 22.2	19.1	Ro~lP6MH15
b4339	C2015 03 22.39498 12 41 13.01 +20 24 23.0	19.5	Ro~lPB3H15
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33648          C2015 03 25.34396 14 30 24.56 +11 24 42.7          19.2 Ro~1OfMH15
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F4339          C2015 03 25.34396 14 31 56.81 +12 03 03.6          20.3 Ro~1OwbH15
N4993          C2015 03 25.34396 14 36 41.13 +11 39 17.5          20.0 Ro~1P3eH15
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89460	C2015 03 25.40923 14 44 54.09 +10 16 35.2	20.5	Ro~lOp2H15	03162	C2015 03 27.12291 10 40 40.25 +24 13 31.1	14.9	Ro~lOY7H15
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73703	C2015 03 27.21843 11 05 42.89 +21 02 45.6	18.9 Ro~lOmFH15	16797	C2015 03 27.24857 13 45 48.65 -22 12 15.0	18.3 Ro~lObgH15
99678	C2015 03 27.21843 11 06 39.45 +21 04 46.4	19.7 Ro~lOqIH15	21103	C2015 03 27.24857 13 43 37.45 -21 27 38.3	18.1 Ro~lOcfH15
B3831	C2015 03 27.21843 11 06 33.12 +21 17 21.9	19.2 Ro~lOs7H15	59049	C2015 03 27.24857 13 47 02.36 -21 27 35.7	18.8 Ro~lOk0H15
E5989	C2015 03 27.21843 11 06 55.20 +21 39 36.9	19.1 Ro~lOvqH15	96892	C2015 03 27.24857 13 46 58.39 -22 09 34.0	19.2 Ro~lOpxH15
G0391	C2015 03 27.21843 11 02 08.60 +20 59 16.4	19.2 Ro~lOxBH15	A3717	C2015 03 27.24857 13 46 28.71 -21 02 21.3	17.7 Ro~lOqpH15
G2119	C2015 03 27.21843 11 04 40.33 +21 32 09.3	19.5 Ro~lOxKH15	J8644	C2015 03 27.24857 13 44 16.62 -21 45 41.3	19.0 Ro~lP0dH15
G3459	C2015 03 27.21843 11 05 27.84 +22 34 25.0	19.2 Ro~lOxRH15	N6710	C2015 03 27.24857 13 42 09.15 -21 38 21.5	18.8 Ro~lP3oH15
O0508	C2015 03 27.21843 11 05 55.37 +21 39 23.7	19.5 Ro~lP4CH15	06181	C2015 03 27.25110 13 43 37.31 -22 18 04.3	18.7 Ro~lOYtH15
b0381	C2015 03 27.21843 11 04 18.54 +21 53 20.6	20.0 Ro~lPAmH15	07276	C2015 03 27.25110 13 48 54.17 -22 13 11.6	17.1 Ro~lOZAH15
b5164	C2015 03 27.21843 11 07 29.68 +21 34 11.3	19.6 Ro~lPB9H15	07917	C2015 03 27.25110 13 45 16.19 -23 39 29.4	19.6 Ro~lOZMH15
c2002	C2015 03 27.21843 11 07 43.53 +21 26 08.9	19.7 Ro~lPBxH15	19120	C2015 03 27.25110 13 48 46.07 -22 23 26.3	19.0 Ro~lOcCH15
F6140	C2015 03 27.22102 11 03 37.48 +23 28 29.7	18.8 Ro~lOwkH15	21715	C2015 03 27.25110 13 44 28.74 -23 46 24.1	17.9 Ro~lOcoH15
01758	C2015 03 27.22462 11 06 53.73 +19 44 14.2	16.2 Ro~lOXhH15	26821	C2015 03 27.25110 13 46 30.40 -23 30 37.7	17.4 Ro~lOdzH15
28889	C2015 03 27.22462 11 01 25.02 +20 44 44.9	19.0 Ro~lOeQH15	27911	C2015 03 27.25110 13 46 31.46 -22 38 56.3	18.1 Ro~lOeEH15
38853	C2015 03 27.22462 11 08 16.14 +19 32 14.8	20.1 Ro~lOgIH15	28294	C2015 03 27.25110 13 42 44.05 -23 47 50.7	19.0 Ro~lOeJH15
48192	C2015 03 27.22462 11 03 07.50 +20 33 21.3	19.5 Ro~lOi6H15	43431	C2015 03 27.25110 13 45 52.06 -22 45 23.3	19.3 Ro~lOh9H15
56814	C2015 03 27.22462 11 07 58.83 +20 47 05.1	18.3 Ro~lOjgH15	82455	C2015 03 27.25110 13 42 07.75 -23 02 40.0	19.3 Ro~lOnwH15
68301	C2015 03 27.22462 11 06 46.83 +20 02 55.0	19.3 Ro~lOlOH15	03905	C2015 03 27.25358 13 44 27.76 -25 34 44.9	17.7 Ro~lOYKH15
72274	C2015 03 27.22462 11 03 52.12 +20 07 22.2	19.2 Ro~lOm2H15	11358	C2015 03 27.25358 13 41 40.40 -24 09 52.7	17.7 Ro~lOaKH15
74530	C2015 03 27.22462 11 03 07.08 +19 24 23.5	19.0 Ro~lOmOH15	19673	C2015 03 27.25358 13 47 33.66 -25 16 04.0	18.5 Ro~lOcKH15
80097	C2015 03 27.22462 11 08 01.19 +19 34 07.0	20.0 Ro~lOnVH15	29426	C2015 03 27.25358 13 47 06.24 -24 21 52.0	18.2 Ro~lOeWH15
83742	C2015 03 27.22462 11 04 56.89 +20 32 45.8	19.6 Ro~lOoEH15	32353	C2015 03 27.25358 13 42 54.15 -25 34 12.7	18.7 Ro~lOf6H15
83993	C2015 03 27.22462 11 03 20.90 +19 30 32.0	18.5 Ro~lOoHH15	50660	C2015 03 27.25358 13 42 55.95 -24 32 07.3	18.5 Ro~lOibH15
B4256	C2015 03 27.22462 11 01 46.64 +20 03 31.2	19.8 Ro~lOsCH15	66722	C2015 03 27.25358 13 42 22.64 -24 48 37.6	19.3 Ro~lO15H15
J0657	C2015 03 27.22462 11 04 14.70 +20 33 57.9	20.1 Ro~lOzqH15	87402	C2015 03 27.25358 13 44 46.56 -25 33 57.1	19.6 Ro~lOo1H15
J7527	C2015 03 27.22462 11 04 12.97 +20 49 28.9	19.6 Ro~lP0VH15	J2180	C2015 03 27.25358 13 48 14.34 -24 58 11.8	19.4 Ro~lP00H15
O1208	C2015 03 27.22462 11 08 38.88 +20 13 55.2	20.2 Ro~lP4FH15	02108	C2015 03 27.25632 13 45 31.87 -26 06 56.6	15.6 Ro~lOXnH15
08759	C2015 03 27.22714 11 05 20.75 +17 37 32.2	18.7 Ro~lOZdH15	27621	C2015 03 27.25632 13 45 06.15 -26 05 27.2	18.0 Ro~lOeAH15
12737	C2015 03 27.22714 11 05 37.35 +17 34 40.1	18.3 Ro~lOagH15	30455	C2015 03 27.25632 13 48 35.33 -26 18 17.8	18.6 Ro~lOeiH15
24177	C2015 03 27.22714 11 03 30.86 +18 18 41.9	18.3 Ro~lOdOH15	54474	C2015 03 27.25632 13 47 29.40 -26 40 25.4	18.7 Ro~lOjIH15
56490	C2015 03 27.22714 11 05 22.14 +17 28 16.6	19.7 Ro~lOjeH15	81936	C2015 03 27.25632 13 43 53.54 -26 26 29.4	19.5 Ro~lOnqH15
D2373	C2015 03 27.22714 11 05 12.17 +18 32 47.1	20.0 Ro~lOu8H15	11787	C2015 03 27.25896 13 45 46.87 -20 51 15.1	17.0 Ro~lOaRH15
D6351	C2015 03 27.22714 11 05 58.63 +17 59 56.3	19.8 Ro~lOubH15	16797	C2015 03 27.25896 13 45 48.18 -22 12 13.8	18.6 Ro~lObgH15
E0416	C2015 03 27.22714 11 04 50.93 +18 46 13.0	19.7 Ro~lOvCH15	21103	C2015 03 27.25896 13 43 36.95 -21 27 38.7	18.0 Ro~lOcfH15
I6751	C2015 03 27.22714 11 07 19.96 +17 50 14.2	20.3 Ro~lOzSH15	59049	C2015 03 27.25896 13 47 02.10 -21 27 33.4	18.5 Ro~lOk0H15
N3416	C2015 03 27.22714 11 07 35.71 +18 55 01.4	20.7 Ro~lP3TH15	96892	C2015 03 27.25896 13 46 58.07 -22 09 30.4	19.0 Ro~lOpxH15
00590	C2015 03 27.22963 11 03 35.56 +21 31 57.0	14.3 Ro~lOXKH15	A3717	C2015 03 27.25896 13 46 28.22 -21 02 23.9	17.6 Ro~lOqpH15
20122	C2015 03 27.22963 11 04 39.34 +22 18 35.0	19.8 Ro~lOcRH15	J8644	C2015 03 27.25896 13 44 16.24 -21 45 36.6	18.4 Ro~lP0dH15
33627	C2015 03 27.22963 11 04 17.14 +22 27 53.5	18.9 Ro~lOfLH15	N6710	C2015 03 27.25896 13 42 08.64 -21 38 16.9	18.6 Ro~lP3oH15
62233	C2015 03 27.22963 11 07 53.37 +21 55 01.1	18.7 Ro~lOkTH15	06181	C2015 03 27.26195 13 43 36.72 -22 18 02.2	18.7 Ro~lOYtH15
68584	C2015 03 27.22963 11 08 22.60 +22 01 33.1	18.9 Ro~lOlPH15	07276	C2015 03 27.26195 13 48 53.68 -22 13 11.4	17.1 Ro~lOZAH15
71677	C2015 03 27.22963 11 09 00.65 +22 00 03.3	19.3 Ro~lOltH15	07917	C2015 03 27.26195 13 45 15.73 -23 39 30.8	18.9 Ro~lOZMH15
73703	C2015 03 27.22963 11 05 42.41 +21 02 45.9	18.7 Ro~lOmFH15	19120	C2015 03 27.26195 13 48 45.55 -22 23 24.4	18.9 Ro~lOcCH15
99678	C2015 03 27.22963 11 06 38.91 +21 04 48.1	19.5 Ro~lOqIH15	21715	C2015 03 27.26195 13 44 28.23 -23 46 22.5	17.9 Ro~lOcoH15
B3831	C2015 03 27.22963 11 06 32.67 +21 17 22.7	19.2 Ro~lOs7H15	26821	C2015 03 27.26195 13 46 29.87 -23 30 37.5	17.6 Ro~lOdzH15
E5989	C2015 03 27.22963 11 06 54.74 +21 39 39.2	19.1 Ro~lOvqH15	27911	C2015 03 27.26195 13 46 30.95 -22 38 54.5	18.3 Ro~lOeEH15
G0391	C2015 03 27.22963 11 02 08.15 +20 59 22.5	18.9 Ro~lOxBH15	28294	C2015 03 27.26195 13 42 43.57 -23 47 48.3	19.2 Ro~lOeJH15
G2119	C2015 03 27.22963 11 04 39.74 +21 32 09.1	19.6 Ro~lOxKH15	43431	C2015 03 27.26195 13 45 51.46 -22 45 23.8	19.6 Ro~lOh9H15
G3459	C2015 03 27.22963 11 05 27.39 +22 34 25.7	19.4 Ro~lOxRH15	82455	C2015 03 27.26195 13 42 07.20 -23 02 41.8	19.5 Ro~lOnwH15
O0508	C2015 03 27.22963 11 05 54.97 +21 39 26.5	19.5 Ro~lP4CH15	03905	C2015 03 27.26443 13 44 27.15 -25 34 45.6	17.7 Ro~lOYKH15
b0381	C2015 03 27.22963 11 04 17.92 +21 53 14.3	19.7 Ro~lPAmH15	11358	C2015 03 27.26443 13 41 39.90 -24 09 51.7	17.9 Ro~lOaKH15
b5164	C2015 03 27.22963 11 07 29.15 +21 34 11.1	19.1 Ro~lPB9H15	19673	C2015 03 27.26443 13 47 33.15 -25 16 06.2	18.6 Ro~lOcKH15
c2002	C2015 03 27.22963 11 07 43.08 +21 26 09.2	19.6 Ro~lPBxH15	29426	C2015 03 27.26443 13 47 05.78 -24 21 51.6	18.2 Ro~lOeWH15
F6140	C2015 03 27.23221 11 03 36.93 +23 28 28.3	18.6 Ro~lOwkH15	32353	C2015 03 27.26443 13 42 53.66 -25 34 13.2	18.8 Ro~lOf6H15
01758	C2015 03 27.23560 11 06 53.30 +19 44 16.5	16.2 Ro~lOXhH15	50660	C2015 03 27.26443 13 42 55.52 -24 32 06.8	18.6 Ro~lOibH15
28889	C2015 03 27.23560 11 01 24.55 +20 44 46.6	18.8 Ro~lOeQH15	66722	C2015 03 27.26443 13 42 22.21 -24 48 36.4	19.3 Ro~lO15H15
38853	C2015 03 27.23560 11 08 15.55 +19 32 14.4	20.2 Ro~lOgIH15	87402	C2015 03 27.26443 13 44 46.01 -25 33 59.0	19.5 Ro~lOolH15
48192	C2015 03 27.23560 11 03 07.00 +20 33 24.2	19.5 Ro~lOi6H15	J2180	C2015 03 27.26443 13 48 13.77 -24 58 15.7	19.3 Ro~lP00H15
56814	C2015 03 27.23560 11 07 58.32 +20 47 07.2	18.4 Ro~lOjgH15	02108	C2015 03 27.26727 13 45 31.29 -26 06 57.9	15.8 Ro~lOXnH15
68301	C2015 03 27.23560 11 06 46.22 +20 02 56.7	19.7 Ro~lOlOH15	27621	C2015 03 27.26727 13 45 05.68 -26 05 25.5	18.1 Ro~lOeAH15
72274	C2015 03 27.23560 11 03 51.67 +20 07 24.9	18.9 Ro~lOm2H15	30455	C2015 03 27.26727 13 48 34.91 -26 18 17.4	19.0 Ro~lOeiH15

54474	C2015 03 27.26727 13 47 28.92	-26 40 24.9	19.1 Ro~lOjIH15	C9646	C2015 03 27.29783 13 49 35.96	-24 23 57.2	19.2 Ro~lOtvH15
81936	C2015 03 27.26727 13 43 53.06	-26 26 29.3	19.4 Ro~lOnqH15	08995	C2015 03 27.30046 13 56 54.69	-26 24 14.3	17.6 Ro~lOZhH15
11787	C2015 03 27.27072 13 45 46.26	-20 51 15.8	17.0 Ro~lOaRH15	38246	C2015 03 27.30046 13 56 57.69	-26 46 42.8	19.3 Ro~lOgCH15
16797	C2015 03 27.27072 13 45 47.74	-22 12 13.3	18.7 Ro~lObgH15	67346	C2015 03 27.30046 13 55 08.05	-26 33 56.9	18.5 Ro~lOlCH15
21103	C2015 03 27.27072 13 43 36.39	-21 27 38.6	17.9 Ro~lOcfH15	79666	C2015 03 27.30046 13 54 27.99	-26 49 53.2	19.2 Ro~lOnOH15
59049	C2015 03 27.27072 13 47 01.80	-21 27 30.6	18.7 Ro~lOk0H15	D0920	C2015 03 27.30046 13 53 44.76	-27 09 48.1	18.5 Ro~lOu0H15
96892	C2015 03 27.27072 13 46 57.56	-22 09 27.4	19.1 Ro~lOpyH15	K7993	C2015 03 27.30046 13 52 52.43	-26 26 22.7	20.0 Ro~lPlPH15
A3717	C2015 03 27.27072 13 46 27.64	-21 02 27.5	17.5 Ro~lOqpH15	L1470	C2015 03 27.30046 13 54 48.20	-26 48 59.7	19.5 Ro~lPlcH15
J8644	C2015 03 27.27072 13 44 15.76	-21 45 32.3	18.4 Ro~lP0dH15	X7971	C2015 03 27.30046 13 52 33.79	-26 10 23.3	19.7 Ro~lP9aH15
N6710	C2015 03 27.27072 13 42 08.23	-21 38 13.6	19.2 Ro~lP3oH15	03560	C2015 03 27.30342 13 50 16.05	-23 14 10.5	17.0 Ro~lOYDH15
06181	C2015 03 27.27318 13 43 36.18	-22 18 00.2	18.7 Ro~lOYtH15	03978	C2015 03 27.30342 13 50 18.31	-23 10 26.8	17.0 Ro~lOYLH15
07276	C2015 03 27.27318 13 48 53.21	-22 13 11.2	17.2 Ro~lOZAH15	27897	C2015 03 27.30342 13 53 46.70	-23 08 20.3	19.9 Ro~lOeEH15
07917	C2015 03 27.27318 13 45 15.12	-23 39 31.0	19.1 Ro~lOZMH15	48993	C2015 03 27.30342 13 55 45.12	-23 08 13.7	18.8 Ro~lOiGH15
19120	C2015 03 27.27318 13 48 45.00	-22 23 22.8	19.6 Ro~lOcCH15	54648	C2015 03 27.30342 13 51 35.89	-23 35 14.8	19.4 Ro~lOjKH15
21715	C2015 03 27.27318 13 44 27.74	-23 46 22.0	18.0 Ro~lOcoH15	71030	C2015 03 27.30342 13 51 12.15	-23 22 55.2	20.0 Ro~lOloH15
26821	C2015 03 27.27318 13 46 29.31	-23 30 37.0	17.5 Ro~lOdzH15	G6550	C2015 03 27.30342 13 54 24.95	-22 55 04.0	20.1 Ro~lOxjH15
27911	C2015 03 27.27318 13 46 30.43	-22 38 52.5	18.2 Ro~lOeEH15	02692	C2015 03 27.30604 13 50 04.86	-21 35 20.9	14.9 Ro~lOXyH15
28294	C2015 03 27.27318 13 42 43.13	-23 47 46.5	19.1 Ro~lOeJH15	23958	C2015 03 27.30604 13 54 56.28	-21 19 33.8	17.7 Ro~lOdLH15
43431	C2015 03 27.27318 13 45 50.92	-22 45 22.5	19.6 Ro~lOh9H15	24519	C2015 03 27.30604 13 56 31.79	-21 42 24.6	18.7 Ro~lOdTH15
82455	C2015 03 27.27318 13 42 06.63	-23 02 41.9	19.5 Ro~lOnwH15	25355	C2015 03 27.30604 13 50 24.07	-20 52 15.3	18.2 Ro~lOdfH15
03905	C2015 03 27.27566 13 44 26.53	-25 34 46.6	17.7 Ro~lOYKH15	36697	C2015 03 27.30604 13 56 40.78	-21 03 20.9	19.3 Ro~lOfvH15
11358	C2015 03 27.27566 13 41 39.35	-24 09 51.7	17.5 Ro~lOaKH15	45972	C2015 03 27.30604 13 51 41.41	-21 10 34.4	18.0 Ro~lOhdH15
19673	C2015 03 27.27566 13 47 32.64	-25 16 07.9	18.7 Ro~lOcKH15	57132	C2015 03 27.30604 13 54 22.56	-20 52 26.8	18.8 Ro~lOjjH15
29426	C2015 03 27.27566 13 47 05.31	-24 21 51.4	18.2 Ro~lOeWH15	83829	C2015 03 27.30604 13 51 22.90	-21 46 27.9	18.9 Ro~lOoFH15
32353	C2015 03 27.27566 13 42 53.13	-25 34 14.8	18.5 Ro~lOf6H15	83830	C2015 03 27.30604 13 52 06.35	-21 43 04.4	18.7 Ro~lOoFH15
50660	C2015 03 27.27566 13 42 54.98	-24 32 08.1	18.5 Ro~lOibH15	A5547	C2015 03 27.30604 13 54 24.90	-22 10 19.5	19.1 Ro~lOr4H15
66722	C2015 03 27.27566 13 42 21.62	-24 48 34.9	19.4 Ro~lOl5H15	B9322	C2015 03 27.30604 13 52 47.33	-22 12 10.4	18.8 Ro~lOspH15
87402	C2015 03 27.27566 13 44 45.43	-25 33 58.8	19.6 Ro~lOolH15	02743	C2015 03 27.30859 13 54 27.34	-25 07 16.7	17.8 Ro~lOXzH15
J2180	C2015 03 27.27566 13 48 13.30	-24 58 18.2	19.2 Ro~lP0OH15	18816	C2015 03 27.30859 13 53 26.30	-25 09 52.7	18.9 Ro~lOc8H15
02108	C2015 03 27.27856 13 45 30.70	-26 06 59.4	15.7 Ro~lOXnH15	26960	C2015 03 27.30859 13 51 35.45	-24 19 45.4	17.2 Ro~lOe1H15
27621	C2015 03 27.27856 13 45 05.23	-26 05 24.8	18.0 Ro~lOeAH15	30442	C2015 03 27.30859 13 52 22.79	-25 11 56.4	19.5 Ro~lOeiH15
30455	C2015 03 27.27856 13 48 34.36	-26 18 17.7	18.7 Ro~lOeiH15	54901	C2015 03 27.30859 13 50 21.54	-25 12 04.3	19.8 Ro~lOjNH15
54474	C2015 03 27.27856 13 47 28.45	-26 40 25.7	18.9 Ro~lOjIH15	67377	C2015 03 27.30859 13 51 06.85	-24 18 59.2	19.0 Ro~lOlCH15
81936	C2015 03 27.27856 13 43 52.49	-26 26 28.7	19.7 Ro~lOnqH15	81966	C2015 03 27.30859 13 53 20.43	-24 17 39.0	19.7 Ro~lOnqH15
03560	C2015 03 27.28106 13 50 17.14	-23 14 11.3	16.9 Ro~lOYDH15	95336	C2015 03 27.30859 13 54 28.21	-25 20 41.5	19.5 Ro~lOpoH15
03978	C2015 03 27.28106 13 50 19.31	-23 10 33.0	17.0 Ro~lOYLH15	B8488	C2015 03 27.30859 13 51 16.80	-24 56 07.6	19.2 Ro~lOsjH15
27897	C2015 03 27.28106 13 53 47.64	-23 08 20.4	19.4 Ro~lOeEH15	C9646	C2015 03 27.30859 13 49 35.53	-24 23 51.6	19.4 Ro~lOtvH15
48993	C2015 03 27.28106 13 55 46.16	-23 08 13.0	18.7 Ro~lOiGH15	08995	C2015 03 27.31126 13 56 54.13	-26 24 17.5	17.4 Ro~lOZhH15
54648	C2015 03 27.28106 13 51 36.84	-23 35 14.8	19.1 Ro~lOjKH15	38246	C2015 03 27.31126 13 56 57.26	-26 46 43.3	19.5 Ro~lOgCH15
71030	C2015 03 27.28106 13 51 13.02	-23 22 58.9	19.7 Ro~lOloH15	67346	C2015 03 27.31126 13 55 07.60	-26 33 54.1	18.2 Ro~lOlCH15
G6550	C2015 03 27.28106 13 54 25.78	-22 55 05.1	19.7 Ro~lOxjH15	79666	C2015 03 27.31126 13 54 27.19	-26 50 01.1	19.3 Ro~lOnOH15
02692	C2015 03 27.28403 13 50 05.76	-21 35 29.1	14.8 Ro~lOXyH15	D0920	C2015 03 27.31126 13 53 44.25	-27 09 50.3	18.5 Ro~lOu0H15
23958	C2015 03 27.28403 13 54 56.97	-21 19 40.0	17.8 Ro~lOdLH15	K7993	C2015 03 27.31126 13 52 51.90	-26 26 26.4	20.1 Ro~lPlPH15
24519	C2015 03 27.28403 13 56 32.53	-21 42 24.8	18.7 Ro~lOdTH15	L1470	C2015 03 27.31126 13 54 47.79	-26 49 04.5	19.5 Ro~lPlcH15
25355	C2015 03 27.28403 13 50 25.23	-20 52 19.1	18.2 Ro~lOdfH15	X7971	C2015 03 27.31126 13 52 33.28	-26 10 27.0	19.7 Ro~lP9aH15
36697	C2015 03 27.28403 13 56 41.59	-21 03 25.4	18.9 Ro~lOfvH15	02562	C2015 03 27.31475 14 00 37.28	-23 51 52.9	16.5 Ro~lOXvH15
45972	C2015 03 27.28403 13 51 42.30	-21 10 37.5	18.0 Ro~lOhdH15	04263	C2015 03 27.31475 14 00 24.67	-23 42 58.5	15.9 Ro~lOYQH15
57132	C2015 03 27.28403 13 54 23.54	-20 52 26.9	18.7 Ro~lOjjH15	15415	C2015 03 27.31475 14 04 07.30	-22 58 15.8	19.1 Ro~lObKH15
83829	C2015 03 27.28403 13 51 23.74	-21 46 30.8	18.8 Ro~lOoFH15	19682	C2015 03 27.31475 13 59 10.05	-22 55 26.2	18.4 Ro~lOcLH15
83830	C2015 03 27.28403 13 52 07.26	-21 43 07.0	18.3 Ro~lOoFH15	25034	C2015 03 27.31475 14 02 43.53	-22 15 06.9	18.8 Ro~lOdbH15
A5547	C2015 03 27.28403 13 54 25.89	-22 10 18.2	19.0 Ro~lOr4H15	45220	C2015 03 27.31475 14 02 56.73	-22 37 38.4	19.4 Ro~lOhVH15
B9322	C2015 03 27.28403 13 52 48.23	-22 12 10.1	18.4 Ro~lOspH15	56935	C2015 03 27.31475 13 59 26.86	-22 23 49.3	19.5 Ro~lOjhH15
02743	C2015 03 27.28651 13 54 28.35	-25 07 21.7	17.9 Ro~lOXzH15	57383	C2015 03 27.31475 14 02 00.99	-22 23 05.5	19.2 Ro~lOjlH15
18816	C2015 03 27.28651 13 53 27.31	-25 09 56.8	19.0 Ro~lOc8H15	84900	C2015 03 27.31475 14 03 09.40	-23 25 30.6	19.3 Ro~lOoRH15
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30442	C2015 03 27.28651 13 52 23.72	-25 11 57.5	19.7 Ro~lOeiH15	01560	C2015 03 27.31728 14 04 06.60	-21 44 22.7	16.6 Ro~lOXdH15
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F3672	C2015 03 28.30759 14 42 20.62 -23 46 47.6	19.9	Ro~lPfDH15	25620	C2015 03 28.34092 14 51 51.98 -25 06 10.8	19.0	Ro~lPP5H15
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80009	C2015 03 28.32709 14 46 30.01 -23 09 39.3	19.2	Ro~lPXVH15	Y0687	C2015 03 28.34927 14 45 32.05 -22 33 59.1	19.5	Ro~lPoPH15
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62743	C2015 03 28.32709 14 48 32.13 -21 50 31.5	19.0	Ro~lPV4H15	08593	C2015 03 28.35175 14 46 42.58 -24 57 22.8	17.7	Ro~lPLeH15
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H0082         C2015 03 29.43118 13 41 19.00 +14 21 13.2          19.3 Ro~lPgVH15
R6046         C2015 03 29.43118 13 47 26.96 +13 52 15.5          18.1 Ro~lPmcH15
J1915         C2015 03 29.43384 13 41 23.35 +16 06 22.1          19.7 Ro~lPhwH15
M9093         C2015 03 29.43384 13 45 36.16 +15 13 13.8          19.2 Ro~lPk8H15
N3332         C2015 03 29.43384 13 47 13.11 +16 26 00.5          19.5 Ro~lPkRH15
E0633         C2015 03 29.43688 13 50 48.57 +19 47 38.4          18.7 Ro~lPe8H15
K8502         C2015 03 29.43688 13 52 13.57 +19 13 55.2          18.6 Ro~lPj3H15
f5799         C2015 03 29.43688 13 54 26.03 +18 57 20.7          18.5 Ro~lPppH15
88258         C2015 03 29.43942 13 55 46.08 +21 26 34.7          18.4 Ro~lPYpH15
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93904         C2015 03 29.44200 13 46 35.19 +14 10 43.7          18.8 Ro~lPZSH15
H0082         C2015 03 29.44200 13 41 18.52 +14 21 18.5          19.2 Ro~lPgVH15
R6046         C2015 03 29.44200 13 47 26.44 +13 52 17.4          18.1 Ro~lPmcH15
J1915         C2015 03 29.44469 13 41 23.07 +16 06 22.9          19.6 Ro~lPhwH15
M9093         C2015 03 29.44469 13 45 35.56 +15 13 18.3          19.1 Ro~lPk8H15
N3332         C2015 03 29.44469 13 47 12.68 +16 26 08.4          19.5 Ro~lPkRH15
K9449         C2015 03 29.44812 13 46 52.20 +18 00 11.5          18.5 Ro~lPj7H15
47979         C2015 03 29.45078 13 44 24.55 +18 40 02.1          17.1 Ro~lPSqH15
09029         C2015 03 29.45078 13 47 19.27 +20 02 26.3          17.2 Ro~lPLlH15
G7600         C2015 03 29.45078 13 41 32.69 +18 57 00.3          19.2 Ro~lPgJH15
J2482         C2015 03 29.45078 13 46 58.35 +19 12 01.9          17.7 Ro~lPhyH15
M7465         C2015 03 29.45078 13 45 53.44 +18 57 22.7          19.5 Ro~lPk2H15
     K13P69E  C2015 03 29.45344 13 45 11.63 +21 28 15.8          19.3 Ro~lPFSH15
51202         C2015 03 29.45615 13 38 53.40 +10 14 20.2          18.6 Ro~lPTSH15
18542         C2015 03 29.45615 13 38 58.97 +09 56 55.3          17.6 Ro~lPNgH15
40228         C2015 03 29.45615 13 36 59.49 +11 01 48.2          17.8 Ro~lPRYH15
52326         C2015 03 29.45615 13 39 51.90 +11 29 51.5          19.2 Ro~lPTfH15
L1819         C2015 03 29.45615 13 40 30.03 +11 08 53.4          19.2 Ro~lPjCH15
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40228         C2015 03 29.46713 13 36 59.01 +11 01 53.3          17.9 Ro~lPRYH15
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L1819         C2015 03 29.46713 13 40 29.66 +11 08 59.0          19.6 Ro~lPjCH15
N0110         C2015 03 29.46713 13 36 52.04 +09 59 13.4          20.1 Ro~lPkDH15
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47979         C2015 03 29.47323 13 44 23.69 +18 40 21.1          17.0 Ro~lPSqH15
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52326         C2015 03 29.47875 13 39 51.02 +11 30 00.3          18.8 Ro~lPTfH15
L1819         C2015 03 29.47875 13 40 29.16 +11 09 05.8          19.1 Ro~lPjCH15
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ISON-Hureltogoot (O75)

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     K15E00T  C2015 03 11.81470 13 00 28.33 -01 56 27.5          16.6 Rq~lMkTO75
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