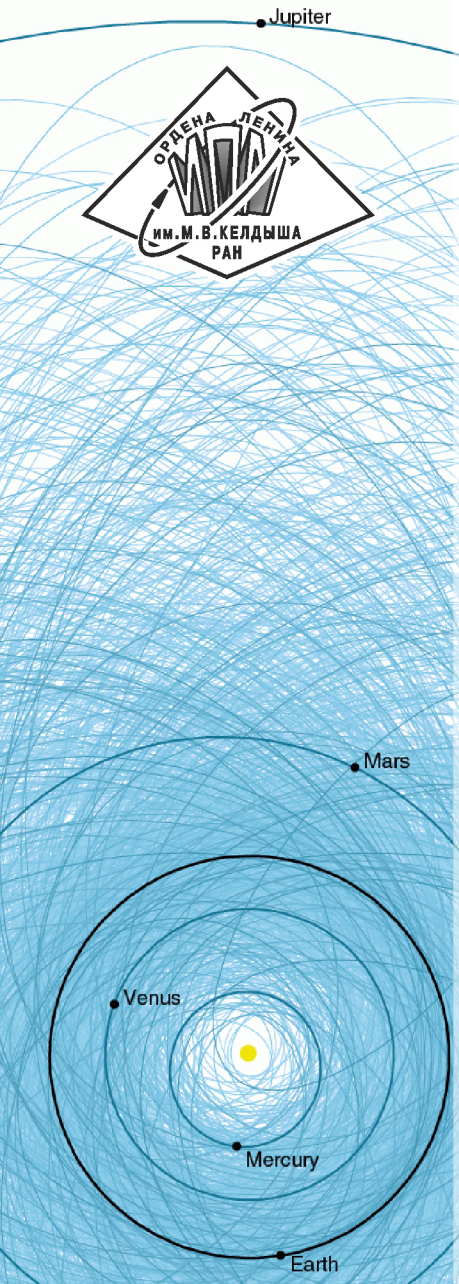
ОРДЕНА ЛЕНИНА
ИНСТИТУТ ПРИКЛАДНОЙ МАТЕМАТИКИ
ИМЕНИ М.В. КЕЛДЫША
РОССИЙСКОЙ АКАДЕМИИ НАУК

Бюллетень № 15-2 (11)

2-я лунация 2015 г.
01.02.15 – 03.03.15



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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2-я лунация 2015 г.

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I. ВВЕДЕНИЕ

Во второй лунации 2015 года, основным источником координатной информации стал 3.5-метровый телескоп SST, о котором уже писалось в предыдущих выпусках Бюллетеня. Данным обзором получено свыше 1.8 миллиона позиционных измерений малых тел Солнечной системы. При этом, по общему числу открытых объектов, данный обзор на порядок уступает обзору Pan-STARRS. Возможно, такое положение дел связано с идущей отработкой и настройкой программного обеспечения или выбором другой концепции обзора - покрывать большую часть небесной сферы, при меньшем проницании. Основным источником новых открытий стал, как и в прошедшие месяцы, обзорный телескоп PS1.

В отчетный период зафиксировано два тесных сближения АСЗ с Землей. Все астероиды были обнаружены уже после их пролета мимо Земли. Астероид семейства Аполлона - 2015 DD1, 17 февраля 2015 года, пролетел всего в 40.5 тысячах километров от Земли, т.е. немногим выше геостационарным спутников. Объект был обнаружен через сутки после тесного сближения. В любом случае, данный астероид не представлял для Земли угрозы, ввиду его малого размера (диаметр от 2 до 5 метров).

Телескопы сети НСОИ АФН продолжают свои наблюдения в рамках проблематики АКО. К сожалению, телескоп обсерватории ISON-NM, из-за технических проблем, не эксплуатировался в течении 3 недель. В настоящий момент его ремонт успешно завершен, и он возобновил свою работу. 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	1804043	73569	342	Space Surveillance Telescope
2.	F51	493684	84565	5826	Pan-STARRS 1
3.	D29	248942	43351	58	Purple Mountain Observatory
4.	G96	222069	40487	797	Mt. Lemmon Survey
5.	C41	203626	35389	0	MASTER-II Observatory, Kislovodsk
6.	703	178130	31464	62	Catalina Sky Survey
7.	691	65567	15398	146	Spacewatch
8.	C94	48328	10763	0	MASTER-II Observatory, Tunka
9.	I41	34204	2598	3	Palomar Mountain--PTF
10.	C51	25406	1231	4	WISE
11.	W95	12106	2852	0	Observatorio Panameno
12.	D54	10301	2088	0	MASTER-II Observatory, Blagoveshchensk
13.	K95	7312	1667	0	MASTER-SAAO Observatory
14.	J43	6762	1271	0	Oukaimeden Observatory
15.	**H15**	**5545**	**1838**	**1**	**ISON-NM Observatory**
16.	J04	5381	1512	11	ESA Optical Ground Station
17.	V30	4295	762	1	Heaven on Earth Observatory
18.	461	3267	656	6	University of Szeged (Konkoly)
19.	309	2807	310	7	Cerro Paranal
20.	695	2411	789	152	Kitt Peak
21.	246	1777	222	0	Klet Observatory-KLENOT
22.	291	1318	351	1	LPL/Spacewatch II
23.	H21	1271	206	2	Astronomical Research Observatory
24.	A84	1184	21	0	TUBITAK National Observatory
25.	807	1145	250	10	Cerro Tololo Observatory
26.	**L96**	**822**	**212**	**0**	**ISON-Byurakan Observatory**
27.	644	610	135	0	Palomar Mountain/NEAT
28.	G32	558	99	6	Elena Remote Observatory
29.	568	555	171	0	Mauna Kea
30.	071	525	43	0	NAO Rozhen
127.	**D00**	**18**	**3**	**1**	**ISON-Kislovodsk Observatory**
145.	**O75**	**14**	**4**	**0**	**ISON-Hureltogoot Observatory**
196.	**A50**	**3**	**1**	**0**	**Andrushivka Astronomical Observatory**

III. ОБЩАЯ СТАТИСТИКА ПО КОЛИЧЕСТВУ ОТКРЫТЫХ ОБЪЕКТОВ

№	Код MPC	Измерений	Объектов	Открыто	Обсерватория
1.	F51	493684	84565	5826	Pan-STARRS 1
2.	G96	222069	40487	797	Mt. Lemmon Survey
3.	G45	1804043	73569	342	Space Surveillance Telescope
4.	695	2411	789	152	Kitt Peak
5.	691	65567	15398	146	Spacewatch
6.	703	178130	31464	62	Catalina Sky Survey
7.	D29	248942	43351	58	Purple Mountain Observatory
8.	J04	5381	1512	11	ESA Optical Ground Station
9.	807	1145	250	10	Cerro Tololo Observatory
10.	309	2807	310	7	Cerro Paranal
11.	G32	558	99	6	Elena Remote Observatory
	461	3267	656	6	University of Szeged (Konkoly)
12.	I93	203	61	4	St Pardon de Conques
	C51	25406	1231	4	WISE
	W84	155	7	4	Cerro Tololo-DECam
13.	I41	34204	2598	3	Palomar Mountain--PTF
14.	H21	1271	206	2	Astronomical Research Observatory
15.	G84	14	3	1	Mount Lemmon SkyCenter
	G68	46	10	1	Sierra Stars Observatory
	B74	52	14	1	Santa Maria de Montmagastrell
	291	1318	351	1	LPL/Spacewatch II
	Q62	257	61	1	iTelescope Observatory, Siding Spring
	V30	4295	762	1	Heaven on Earth Observatory
	W86	387	101	1	Cerro Tololo-LCOGT B
	D00	**18**	**3**	**1**	**ISON-Kislovodsk Observatory**
	D03	68	15	1	Rantiga Osservatorio
	W85	81	19	1	Cerro Tololo-LCOGT A
	198	77	12	1	Wildberg
	H15	**5545**	**1838**	**1**	**ISON-NM Observatory**

IV. СТАТИСТИКА ПО ОТКРЫТЫМ АСЗ

	Количество	Потенциально опасные	Атира	Атоны	Аполлонцы	Амуры
Лунация	**126**	12	0	8	75	43
Всего	**12 267**	**1 574**	**21**	**903**	**6 084**	**5 259**

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 CH13	2015-02-11.23724	285 700	0.0006	15.674	19.4w	28.6	4-11	168.5	-1.10923	Аполлон
2015 DD1	2015-02-17.31773	40 400	0.0001	7.520	19.8V	30.4	2-5	152.9	-1.0956	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 CH13

```
Эпоха 2015 июнь 27.0 TT = JDT 2457200.5

M  88.10689             (2000.0)            P              Q

n   0.48044035     Peri.  284.10874     +0.41887586     -0.90750857           T = 2457017.11221 JDT
a   1.6145186      Node   141.08028     +0.85108043     +0.38040356           q = 0.7152202
e   0.5570071      Incl.    2.84338     +0.31655190     +0.17810481        MOID = 0.00061 a.e.
П   2.05            H    28.6           G   0.15           U   6
```

2015 DD1

```
Эпоха 2015 июнь 27.0 TT = JDT 2457200.5

M 104.00874             (2000.0)            P              Q

n   0.62382854     Peri.  134.72164     -0.21865407     -0.97540254           T = 2457033.77352 JDT
a   1.3565190      Node   327.87772     +0.87977824     -0.18467337           q = 0.9160409
e   0.3247121      Incl.    3.01133     +0.42211450     -0.12035626        MOID = 0.00005 a.e.
П   1.58           H   30.4           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*
2014 EK24		2015-02-18	2015-02-23	Голдстоун	70	0.042↓	0.041↓	450
		2015-02-25	2015-02-25	Аресибо		0.041↑	0.041↑	900
2002 RQ25		2015-02-18	2015-02-19	Голдстоун	480	0.052↓	0.051↓	450
		2015-02-23	2015-02-26	Аресибо		0.054↑	0.062↑	800
2015 AZ43		2015-02-18	2015-02-19	Голдстоун	60	0.023↑	0.026↑	450
2003 YK118	PHA	2015-02-28	2015-02-28	Голдстоун	660	0.079↑	0.079↑	450
		2015-02-23	2015-02-26	Аресибо		0.081↓	0.078↓	900
2015 DU		2015-02-23	2015-02-23	Голдстоун	20	0.021↑	0.021↑	450
2015 CA40		2015-02-23	2015-02-23	Голдстоун	40	0.016↓	0.016↓	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)

```
S5331          C2015 02 27.02326 13 15 09.55 +59 55 40.3          19.1 Vq~1Mf0D00
S5331          C2015 02 27.03123 13 15 09.77 +59 55 53.3          19.1 Vq~1Mf0D00
S5331          C2015 02 27.03919 13 15 10.04 +59 56 05.3          18.9 Vq~1Mf0D00
S5331          C2015 02 27.04715 13 15 10.33 +59 56 17.5          19.0 Vq~1Mf0D00
```

ISON-NM (H15)

```
05587          C2015 02 10.22056 07 28 49.21 -01 19 58.9          19.8 Ro~1J5iH15
05587          C2015 02 10.23136 07 28 48.62 -01 19 55.0          19.7 Ro~1J5iH15
05587          C2015 02 10.24239 07 28 48.08 -01 19 50.2          19.8 Ro~1J5iH15
A8519          C2015 02 19.13229 08 13 23.39 -12 38 27.4          19.1 Ro~1LlXH15
A8519          C2015 02 19.14381 08 13 22.18 -12 38 27.5          19.0 Ro~1LlXH15
A8519          C2015 02 19.15464 08 13 21.09 -12 38 28.6          19.3 Ro~1LlXH15
```

ISON-Byurakan (L96)

```
R5976          C2015 02 22.71370 07 49 44.12 +58 25 51.9          19.3 Vq~1MeTL96
R5976          C2015 02 22.72752 07 49 43.61 +58 25 33.3          19.1 Vq~1MeTL96
R5976          C2015 02 22.73442 07 49 43.62 +58 25 25.0          18.2 Vq~1MeTL96
```

ISON-Hureltogoot (O75)

```
     K15C13P   C2015 02 15.55898 10 25 08.43 +59 16 43.5          17.8 Rq~1LOcO75
     K15C13P   C2015 02 15.56046 10 25 08.33 +59 16 37.0          18.1 Rq~1LOcO75
     K15C13P   C2015 02 15.56120 10 25 08.25 +59 16 33.9          18.1 Rq~1LOcO75
     K15C13P   C2015 02 15.56270 10 25 07.92 +59 16 27.6          18.1 Rq~1LOcO75
```

```
K15C13N  C2015 02 15.56900 10 33 25.38 +40 40 54.0          18.3 Rq~1LObO75
K15C13N  C2015 02 15.56975 10 33 25.55 +40 40 51.7          18.1 Rq~1LObO75
K15C13N  C2015 02 15.57049 10 33 25.73 +40 40 51.6          18.7 Rq~1LObO75
K15C13N  C2015 02 15.57123 10 33 26.01 +40 40 48.6          18.3 Rq~1LObO75
K15C13Q  C2015 02 15.57469 10 43 10.92 +52 42 05.5          18.9 Rq~1LOcO75
K15C13Q  C2015 02 15.57543 10 43 13.36 +52 42 00.4          19.1 Rq~1LOcO75
K15C13M  C2015 02 15.58318 11 09 11.00 +49 40 44.3          18.3 Rq~1LObO75
K15C13M  C2015 02 15.58466 11 09 11.67 +49 40 37.6          18.6 Rq~1LObO75
K15C13M  C2015 02 15.58549 11 09 11.99 +49 40 34.0          18.2 Rq~1LObO75
K15C13M  C2015 02 15.58697 11 09 12.91 +49 40 27.8          17.9 Rq~1LObO75
```

IX. ОБОБЩЕННЫЕ РЕЗУЛЬТАТЫ

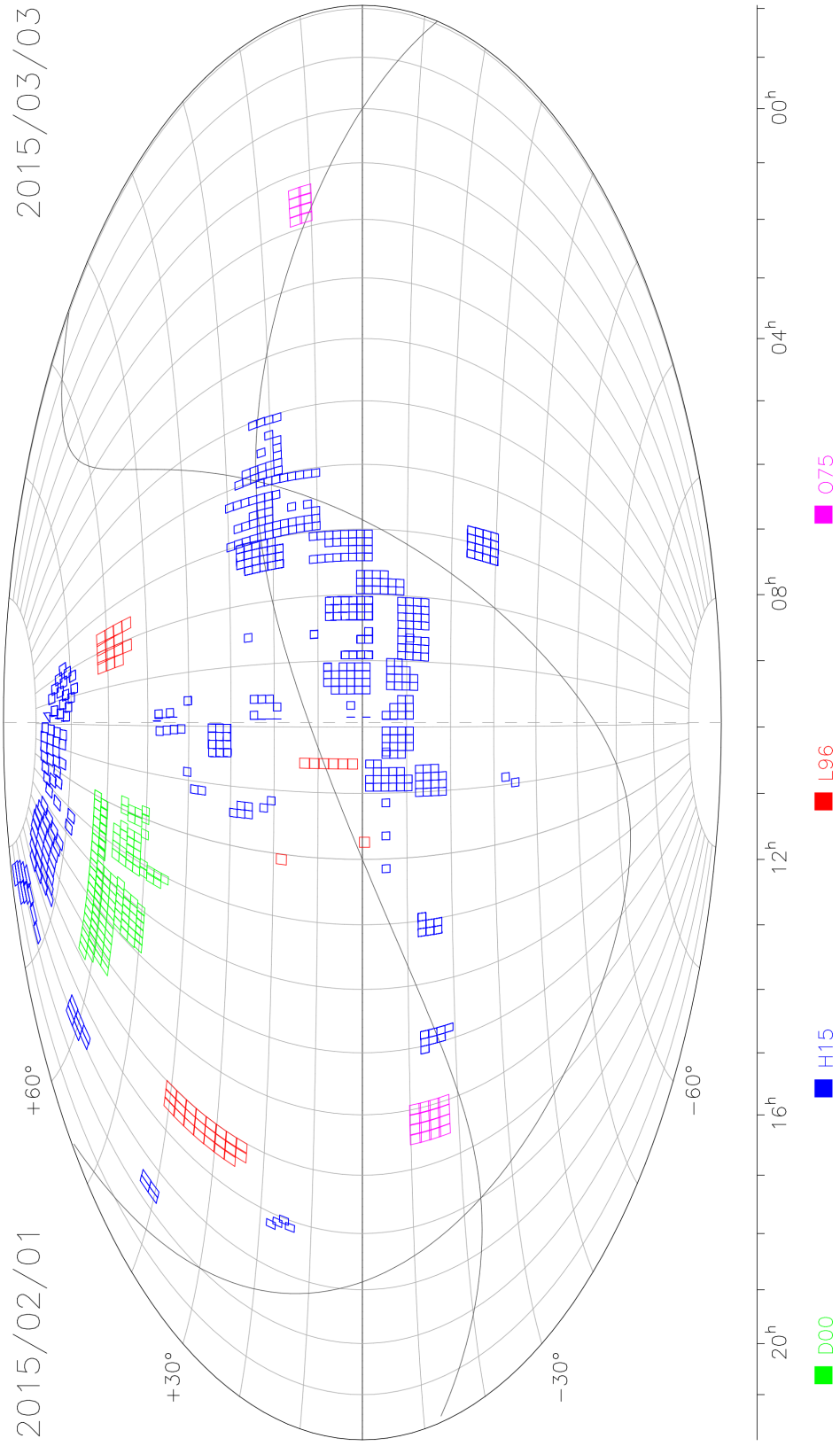
За рассматриваемый период времени (01.02.15-03.03.15), обсерваториями НСОИ АФН, участвующими в наблюдениях малых тел Солнечной системы получено 6 542 позиционных измерения, открыто 2 новых астероида. По общему количеству измерений и открытых объектов, среди всех наблюдателей, обсерватория ISON-NM заняла 15 место. Малое число измерений обуславливается техническими проблемами, которые, в данный момент, устранены. В целом, всеми обсерваториями были открыты 126 АСЗ, в том числе 12 потенциально опасных. Общее количество известных АСЗ на данный момент - 12 267 из них потенциально опасных - 1 574 (12.8% от общего числа астероидов).

Были зафиксированы два тесных сближения с Землей, в одном из которых астероид 2015 DD1 сблизился с нашей планетой до 40.5 тысяч километров. Оба астероида были обнаружены уже на отлетной траектории.

В отчетный период фотометрические наблюдения не проводились.

Радио обсерваториями Голдстоун и Аресибо проведена успешная локация шести АСЗ, включая потенциально опасный астероид 2003 YK118. Наблюдения проводились на дистанциях от 0.016 до 0.081 а.е. В ходе наблюдений, мощности передатчиков составляли 450 кВт (Голдстоун) и 900 кВт (Аресибо).

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)

```
19537          C2015 02 22.88706 11 56 08.04 +52 14 48.0          17.9 Vq~1MGED00
19537          C2015 02 22.89417 11 56 07.49 +52 14 53.5          18.0 Vq~1MGED00
19537          C2015 02 22.90127 11 56 06.99 +52 14 59.0          17.8 Vq~1MGED00
19537          C2015 02 22.90836 11 56 06.45 +52 15 04.7          17.8 Vq~1MGED00
     K15DK1Y*KC2015 02 22.99609 12 44 21.05 +53 46 18.3          20.1 Vq~1M9wD00
     K15DK1Y KC2015 02 22.99757 12 44 20.79 +53 46 18.5          20.2 Vq~1M9wD00
     K15DK1Y KC2015 02 22.99868 12 44 20.72 +53 46 18.8          19.7 Vq~1M9wD00
     K15DK1Y KC2015 02 23.00127 12 44 20.37 +53 46 19.3          19.8 Vq~1M9wD00
     K15DK1Y KC2015 02 23.02751 12 44 17.10 +53 46 24.1          20.2 Vq~1M9wD00
     K15DK1Y KC2015 02 23.02973 12 44 16.74 +53 46 24.1          20.6 Vq~1M9wD00
     K15DK1Y KC2015 02 23.03196 12 44 16.57 +53 46 24.8          20.6 Vq~1M9wD00
     K15DK1Y KC2015 02 24.93978 12 40 17.29 +53 51 21.6          19.9 Vq~1M9wD00
     K15DK1Y KC2015 02 24.97986 12 40 11.94 +53 51 26.8          20.2 Vq~1M9xD00
     K15DK1Y KC2015 02 25.01547 12 40 07.19 +53 51 31.1          20.1 Vq~1M9xD00
S5331          C2015 02 27.02326 13 15 09.55 +59 55 40.3          19.1 Vq~1Mf0D00
S5331          C2015 02 27.03123 13 15 09.77 +59 55 53.3          19.1 Vq~1Mf0D00
S5331          C2015 02 27.03919 13 15 10.04 +59 56 05.3          18.9 Vq~1Mf0D00
S5331          C2015 02 27.04715 13 15 10.33 +59 56 17.5          19.0 Vq~1Mf0D00
    CK14F020   C2015 02 28.02477 15 22 46.51 +62 27 28.6          18.3 Tq92412D00
    CK14F020   C2015 02 28.03188 15 22 45.89 +62 27 39.2          18.3 Tq92412D00
    CK14F020   C2015 02 28.03897 15 22 45.32 +62 27 47.9          18.3 Tq92412D00
    CK14F020   C2015 02 28.04608 15 22 44.80 +62 27 57.9          18.8 Tq92412D00
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ISON-Blagoveschensk (D53)

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00507          C2015 02 08.65275 09 20 20.50 +09 12 21.4          14.4 Ru~1LRwD53
00507          C2015 02 08.65543 09 20 20.36 +09 12 22.0          14.4 Ru~1LRwD53
00542          C2015 02 08.67191 07 01 29.58 +12 17 37.9          14.7 Ru~1LRyD53
00542          C2015 02 08.67306 07 01 29.57 +12 17 38.4          14.7 Ru~1LRyD53
00542          C2015 02 08.67535 07 01 29.49 +12 17 39.0          14.7 Ru~1LRyD53
00542          C2015 02 08.67611 07 01 29.46 +12 17 39.2          14.7 Ru~1LRyD53
00549          C2015 02 08.68007 05 14 15.84 +23 44 08.8          14.7 Ru~1LRyD53
00549          C2015 02 08.68122 05 14 15.89 +23 44 08.8          14.6 Ru~1LRyD53
00549          C2015 02 08.68426 05 14 16.02 +23 44 08.5          14.7 Ru~1LRyD53
00549          C2015 02 08.68502 05 14 16.05 +23 44 08.3          14.7 Ru~1LRyD53
00507          C2015 02 08.78316 09 20 13.78 +09 12 34.5          14.5 Ru~1LRwD53
00507          C2015 02 08.78396 09 20 13.74 +09 12 34.3          14.5 Ru~1LRwD53
00542          C2015 02 09.41211 07 01 08.42 +12 21 56.4          14.7 Ru~1LRyD53
00542          C2015 02 09.41291 07 01 08.39 +12 21 56.8          14.7 Ru~1LRyD53
00542          C2015 02 09.41617 07 01 08.37 +12 21 58.0          14.7 Ru~1LRyD53
00542          C2015 02 09.41655 07 01 08.36 +12 21 57.9          14.7 Ru~1LRyD53
00549          C2015 02 09.42235 05 14 48.25 +23 42 42.7          14.7 Ru~1LRyD53
00549          C2015 02 09.42315 05 14 48.32 +23 42 42.5          14.7 Ru~1LRyD53
00549          C2015 02 09.42502 05 14 48.45 +23 42 42.4          14.8 Ru~1LRyD53
00549          C2015 02 09.42578 05 14 48.46 +23 42 42.4          14.8 Ru~1LRyD53
00507          C2015 02 09.42997 09 19 41.50 +09 13 44.1          14.5 Ru~1LRwD53
00507          C2015 02 09.43050 09 19 41.42 +09 13 45.0          14.5 Ru~1LRwD53
00507          C2015 02 09.43215 09 19 41.40 +09 13 45.2          14.4 Ru~1LRwD53
00507          C2015 02 09.43330 09 19 41.33 +09 13 44.9          14.4 Ru~1LRwD53
00549          C2015 02 13.42605 05 17 59.11 +23 35 26.4          14.9 Ru~1LRyD53
00549          C2015 02 13.42632 05 17 59.14 +23 35 26.9          15.0 Ru~1LRyD53
00549          C2015 02 13.42659 05 17 59.11 +23 35 27.2          15.0 Ru~1LRyD53
00549          C2015 02 13.42712 05 17 59.16 +23 35 27.3          15.1 Ru~1LRyD53
00549          C2015 02 13.42765 05 17 59.19 +23 35 27.2          15.2 Ru~1LRyD53
00549          C2015 02 13.42818 05 17 59.22 +23 35 27.6          15.0 Ru~1LRyD53
00549          C2015 02 14.51285 05 18 55.82 +23 33 36.9          16.1 Ru~1LRyD53
00549          C2015 02 14.51323 05 18 55.90 +23 33 36.7          15.1 Ru~1LRyD53
00549          C2015 02 14.51361 05 18 55.92 +23 33 36.5          15.1 Ru~1LRyD53
00549          C2015 02 14.51399 05 18 55.93 +23 33 36.8          15.1 Ru~1LRyD53
00549          C2015 02 14.51514 05 18 55.99 +23 33 35.9          15.1 Ru~1LRyD53
00549          C2015 02 14.51912 05 18 56.20 +23 33 35.9          15.4 Ru~1LRyD53
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ISON-NM (H15)

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32773          C2015 02 03.25163 09 36 53.06 +77 08 25.7          16.3 Ro~1Ie9H15
32773          C2015 02 03.26296 09 36 50.51 +77 08 20.7          16.3 Ro~1Ie9H15
32773          C2015 02 03.27393 09 36 47.99 +77 08 16.3          16.4 Ro~1Ie9H15
07197          C2015 02 05.09375 05 02 55.80 +18 57 12.3          17.1 Ro~1IZwH15
07631          C2015 02 05.09375 05 02 26.38 +19 15 10.0          17.2 Ro~1Ia1H15
09960          C2015 02 05.09375 05 03 30.41 +17 36 54.6          19.1 Ro~1IaRH15
57151          C2015 02 05.09375 05 04 38.06 +18 55 25.4          19.5 Ro~1IhGH15
74860          C2015 02 05.09624 05 05 40.78 +19 36 35.7          19.5 Ro~1Ij8H15
75367          C2015 02 05.09624 05 04 46.75 +19 34 31.0          19.2 Ro~1IjCH15
C0104          C2015 02 05.09624 05 00 18.51 +20 48 58.2          19.8 Ro~1ImgH15
03952          C2015 02 05.10126 05 06 06.51 +23 11 32.1          17.5 Ro~1IZEH15
96378          C2015 02 05.10126 05 04 26.34 +23 02 11.2          18.7 Ro~1IkuH15
07197          C2015 02 05.10432 05 02 56.14 +18 57 17.4          17.3 Ro~1IZwH15
07631          C2015 02 05.10432 05 02 26.96 +19 15 13.7          17.3 Ro~1Ia1H15
09960          C2015 02 05.10432 05 03 30.65 +17 36 57.9          19.7 Ro~1IaRH15
57151          C2015 02 05.10432 05 04 38.41 +18 55 26.1          19.4 Ro~1IhGH15
74860          C2015 02 05.10706 05 05 41.16 +19 36 38.1          19.9 Ro~1Ij8H15
75367          C2015 02 05.10706 05 04 47.09 +19 34 27.6          19.4 Ro~1IjCH15
C0104          C2015 02 05.10706 05 00 18.43 +20 49 02.8          19.7 Ro~1ImgH15
03952          C2015 02 05.11209 05 06 06.90 +23 11 32.4          18.0 Ro~1IZEH15
96378          C2015 02 05.11209 05 04 26.83 +23 02 08.6          18.5 Ro~1IkuH15
07197          C2015 02 05.11737 05 02 56.49 +18 57 22.3          16.9 Ro~1IZwH15
07631          C2015 02 05.11737 05 02 27.58 +19 15 17.8          16.9 Ro~1Ia1H15
09960          C2015 02 05.11737 05 03 30.92 +17 37 01.4          18.7 Ro~1IaRH15
57151          C2015 02 05.11737 05 04 38.77 +18 55 26.4          18.9 Ro~1IhGH15
74860          C2015 02 05.11984 05 05 41.60 +19 36 40.9          19.1 Ro~1Ij8H15
75367          C2015 02 05.11984 05 04 47.40 +19 34 25.5          19.3 Ro~1IjCH15
C0104          C2015 02 05.11984 05 00 18.53 +20 49 07.8          19.8 Ro~1ImgH15
03952          C2015 02 05.12475 05 06 07.26 +23 11 31.4          17.9 Ro~1IZEH15
96378          C2015 02 05.12475 05 04 27.37 +23 02 07.9          18.5 Ro~1IkuH15
15719          C2015 02 05.13222 05 30 05.97 +19 01 48.2          17.5 Ro~1IbRH15
E8908          C2015 02 05.13222 05 34 29.98 +18 55 29.2          17.7 Ro~1Io5H15
07124          C2015 02 05.13474 05 35 43.91 +21 26 34.6          16.7 Ro~1IZvH15
15719          C2015 02 05.14328 05 30 05.92 +19 01 53.9          17.9 Ro~1IbRH15
E8908          C2015 02 05.14328 05 34 30.15 +18 55 24.4          17.6 Ro~1Io5H15
07124          C2015 02 05.14575 05 35 43.69 +21 26 31.3          17.1 Ro~1IZvH15
15719          C2015 02 05.15443 05 30 05.92 +19 01 59.0          17.2 Ro~1IbRH15
E8908          C2015 02 05.15443 05 34 30.16 +18 55 20.1          17.9 Ro~1Io5H15
07124          C2015 02 05.15691 05 35 43.50 +21 26 28.2          16.9 Ro~1IZvH15
00124          C2015 02 05.16472 05 50 41.81 +19 23 08.6          13.1 Ro~1IYDH15
02443          C2015 02 05.16816 05 55 46.63 +19 10 33.8          15.2 Ro~1IYrH15
11017          C2015 02 05.16816 05 53 22.07 +19 11 38.2          16.7 Ro~1IadH15
00527          C2015 02 05.17063 05 58 55.29 +19 33 24.0          15.3 Ro~1IYKH15
05778          C2015 02 05.17314 05 57 47.67 +21 45 40.3          16.5 Ro~1IZdH15
00124          C2015 02 05.17565 05 50 41.41 +19 23 10.1          13.6 Ro~1IYDH15
02443          C2015 02 05.17814 05 55 46.37 +19 10 36.7          15.7 Ro~1IYrH15
11017          C2015 02 05.17814 05 53 21.87 +19 11 42.1          17.2 Ro~1IadH15
00527          C2015 02 05.18161 05 58 54.98 +19 33 26.6          15.8 Ro~1IYKH15
05778          C2015 02 05.18418 05 57 47.44 +21 45 37.1          16.7 Ro~1IZdH15
02443          C2015 02 05.18933 05 55 46.14 +19 10 40.1          15.1 Ro~1IYrH15
11017          C2015 02 05.18933 05 53 21.73 +19 11 46.7          17.0 Ro~1IadH15
00124          C2015 02 05.19177 05 50 41.05 +19 23 11.5          12.7 Ro~1IYDH15
00527          C2015 02 05.19428 05 58 54.69 +19 33 29.8          15.3 Ro~1IYKH15
05778          C2015 02 05.19673 05 57 47.11 +21 45 34.5          16.5 Ro~1IZdH15
02350          C2015 02 05.24378 05 38 49.76 +18 45 50.6          16.3 Ro~1IYqH15
02350          C2015 02 05.25464 05 38 49.86 +18 45 53.9          16.6 Ro~1IYqH15
02350          C2015 02 05.26729 05 38 50.00 +18 45 58.1          16.0 Ro~1IYqH15
40244          C2015 02 06.08901 06 48 22.37 -23 50 47.6          18.7 Ro~1JctH15
40244          C2015 02 06.09965 06 48 21.99 -23 50 36.9          18.5 Ro~1JctH15
40244          C2015 02 06.11085 06 48 21.76 -23 50 25.6          18.4 Ro~1JctH15
R5888          C2015 02 06.19132 07 09 43.48 -27 44 27.2          18.0 Ro~1L6jH15
R5888          C2015 02 06.20338 07 09 42.99 -27 44 27.3          17.9 Ro~1L6jH15
R5888          C2015 02 06.21421 07 09 42.42 -27 44 29.0          18.1 Ro~1L6jH15
02635          C2015 02 06.22359 07 22 12.87 +19 00 50.3          16.5 Ro~1J1xH15
13606          C2015 02 06.22359 07 16 12.49 +17 57 25.4          19.7 Ro~1JEnH15
14115          C2015 02 06.22359 07 19 51.65 +17 55 58.3          19.5 Ro~1JFIH15
17974          C2015 02 06.22359 07 18 02.42 +19 15 49.6          18.6 Ro~1JJOH15
25447          C2015 02 06.22359 07 15 19.25 +19 02 59.8          19.0 Ro~1JQUH15
27088          C2015 02 06.22359 07 18 37.38 +18 27 27.4          18.6 Ro~1JRyH15
30575          C2015 02 06.22359 07 19 47.05 +19 06 51.5          19.2 Ro~1JV2H15
30588          C2015 02 06.22359 07 16 58.12 +18 57 43.1          18.0 Ro~1JV3H15
38894          C2015 02 06.22359 07 18 13.51 +17 44 57.0          18.8 Ro~1JbgH15
39842          C2015 02 06.22359 07 18 01.34 +18 02 44.6          18.2 Ro~1JcbH15
60260          C2015 02 06.22359 07 15 08.91 +18 46 43.0          19.4 Ro~1JryH15
64779          C2015 02 06.22359 07 20 52.53 +19 24 48.9          19.8 Ro~1JumH15
67342          C2015 02 06.22359 07 18 50.21 +18 22 48.9          19.1 Ro~1JwPH15
76347          C2015 02 06.22359 07 17 32.83 +18 51 10.3          18.8 Ro~1K3hH15
04965          C2015 02 06.22604 07 22 07.31 +21 14 55.0          19.0 Ro~1J4zH15
10330          C2015 02 06.22604 07 20 49.59 +20 58 55.6          17.3 Ro~1JBGH15
10787          C2015 02 06.22604 07 20 02.59 +20 53 13.7          19.2 Ro~1JBoH15
12555          C2015 02 06.22604 07 16 13.86 +20 17 42.1          17.4 Ro~1JDoH15
13989          C2015 02 06.22604 07 16 10.09 +20 05 11.0          18.1 Ro~1JFBH15
20370          C2015 02 06.22604 07 22 22.76 +19 51 45.3          17.5 Ro~1JLiH15
32278          C2015 02 06.22604 07 18 30.72 +19 28 30.6          18.3 Ro~1JWRH15
45262          C2015 02 06.22604 07 19 33.66 +19 43 46.2          18.9 Ro~1JhFH15
66890          C2015 02 06.22604 07 19 47.39 +20 57 02.8          18.5 Ro~1Jw9H15
67150          C2015 02 06.22604 07 15 55.38 +20 50 50.4          18.8 Ro~1JwKH15
74090          C2015 02 06.22604 07 17 57.01 +20 41 12.8          19.9 Ro~1K1vH15
97862          C2015 02 06.22604 07 19 34.40 +20 38 19.9          19.6 Ro~1KFAH15
A7206          C2015 02 06.22604 07 15 34.22 +21 07 30.5          19.1 Ro~1KK4H15
A9814          C2015 02 06.22604 07 16 41.83 +20 42 30.5          18.9 Ro~1KLjH15
B9600          C2015 02 06.22604 07 19 55.02 +20 23 51.9          18.9 Ro~1KQzH15
D1571          C2015 02 06.22604 07 19 26.30 +19 41 15.9          18.6 Ro~1KVEH15
D9668          C2015 02 06.22604 07 17 41.02 +19 44 58.8          18.0 Ro~1KYvH15
E2758          C2015 02 06.22604 07 20 48.11 +20 45 39.7          19.4 Ro~1KZwH15
g0018          C2015 02 06.22604 07 17 38.46 +19 41 10.1          20.0 Ro~1LHMH15
04529          C2015 02 06.23393 07 28 39.37 +18 23 33.2          17.6 Ro~1J4SH15
06918          C2015 02 06.23393 07 27 15.30 +19 01 34.1          17.1 Ro~1J7KH15
12991          C2015 02 06.23393 07 28 03.83 +19 26 02.3          19.6 Ro~1JEHH15
15289          C2015 02 06.23393 07 23 15.90 +18 51 34.9          19.5 Ro~1JGZH15
15393          C2015 02 06.23393 07 26 45.23 +18 46 23.2          17.8 Ro~1JGeH15
17484          C2015 02 06.23393 07 28 40.45 +18 36 06.7          19.6 Ro~1JItH15
20474          C2015 02 06.23393 07 27 51.00 +18 16 06.0          18.3 Ro~1JLoH15
27592          C2015 02 06.23393 07 24 04.92 +17 59 57.3          18.8 Ro~1JSWH15
28355          C2015 02 06.23393 07 24 26.71 +19 10 38.4          19.1 Ro~1JTBH15
32445          C2015 02 06.23393 07 24 17.10 +17 42 26.6          18.6 Ro~1JWYH15
32877          C2015 02 06.23393 07 28 15.76 +18 35 28.3          19.6 Ro~1JWrH15
36353          C2015 02 06.23393 07 23 31.93 +17 57 52.0          19.0 Ro~1JZdH15
46828          C2015 02 06.23393 07 29 00.46 +18 02 04.9          19.4 Ro~1JieH15
47526          C2015 02 06.23393 07 26 46.00 +19 08 46.7          19.3 Ro~1JjDH15
53983          C2015 02 06.23393 07 24 56.75 +17 39 32.6          18.9 Ro~1Jo3H15
55378          C2015 02 06.23393 07 24 43.98 +18 25 19.9          19.2 Ro~1Jp1H15
55877          C2015 02 06.23393 07 25 41.74 +18 23 37.8          19.7 Ro~1JpNH15
66824          C2015 02 06.23393 07 24 46.09 +19 14 34.2          19.0 Ro~1Jw5H15
68162          C2015 02 06.23393 07 26 32.74 +19 05 49.8          19.6 Ro~1JxPH15
87355          C2015 02 06.23393 07 24 03.89 +19 03 59.4          19.7 Ro~1KA3H15
97872          C2015 02 06.23393 07 26 26.16 +19 10 45.5          18.7 Ro~1KFAH15
B2273          C2015 02 06.23393 07 25 56.61 +18 58 59.9          19.9 Ro~1KNHH15
C2318          C2015 02 06.23393 07 23 25.96 +18 28 58.6          19.3 Ro~1KRpH15
D4674          C2015 02 06.23393 07 23 44.51 +18 30 44.0          20.0 Ro~1KWWH15
D7468          C2015 02 06.23393 07 29 06.17 +19 02 52.0          19.4 Ro~1KX1H15
06622          C2015 02 06.23637 07 27 33.20 +20 46 40.3          18.7 Ro~1J6yH15
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17124	C2015 02 06.23637 07 23 36.93 +20 44 56.2	18.5 Ro~lJIWH15	A9334	C2015 02 06.24722 07 29 20.86 +19 57 23.4	19.4 Ro~lKLJH15
27777	C2015 02 06.23637 07 24 43.23 +20 42 06.2	18.1 Ro~lJSfH15	D4975	C2015 02 06.24722 07 25 57.04 +20 38 01.7	18.7 Ro~lKWmH15
28895	C2015 02 06.23637 07 27 28.13 +20 36 17.9	19.0 Ro~lJTgH15	D7978	C2015 02 06.24722 07 28 32.03 +20 38 05.3	19.8 Ro~lKYHH15
32518	C2015 02 06.23637 07 28 49.27 +20 56 18.7	18.7 Ro~lJWbH15	E5715	C2015 02 06.24722 07 27 01.11 +20 28 02.8	19.7 Ro~lKb6H15
35819	C2015 02 06.23637 07 27 13.31 +20 44 39.9	19.3 Ro~lJZFH15	28075	C2015 02 06.24975 07 28 52.25 +21 23 28.5	18.3 Ro~lJSvH15
47417	C2015 02 06.23637 07 25 56.42 +20 55 50.9	17.9 Ro~lJj6H15	30132	C2015 02 06.24975 07 24 10.94 +22 18 59.5	18.9 Ro~lJUgH15
50578	C2015 02 06.23637 07 25 03.85 +19 34 42.2	18.5 Ro~lJlaH15	36619	C2015 02 06.24975 07 28 52.03 +21 30 52.7	16.2 Ro~lJZtH15
61652	C2015 02 06.23637 07 25 46.10 +19 58 23.9	18.8 Ro~lJstH15	36869	C2015 02 06.24975 07 24 17.63 +21 34 49.3	18.5 Ro~lJaBH15
68988	C2015 02 06.23637 07 28 40.68 +20 11 03.2	19.2 Ro~lJxuH15	39305	C2015 02 06.24975 07 28 35.09 +21 15 20.1	17.1 Ro~lJc4H15
71886	C2015 02 06.23637 07 29 48.35 +21 05 08.1	18.8 Ro~lK08H15	39831	C2015 02 06.24975 07 28 32.89 +21 50 36.2	17.2 Ro~lJcaH15
72653	C2015 02 06.23637 07 29 21.67 +20 13 48.3	19.0 Ro~lK0rH15	41358	C2015 02 06.24975 07 22 34.99 +22 44 02.8	17.5 Ro~lJdpH15
77231	C2015 02 06.23637 07 28 10.03 +19 57 11.6	19.4 Ro~lK4NH15	43962	C2015 02 06.24975 07 22 43.92 +22 32 37.5	18.2 Ro~lJg4H15
A9334	C2015 02 06.23637 07 29 21.28 +19 57 22.4	19.4 Ro~lKLJH15	61958	C2015 02 06.24975 07 29 03.21 +22 22 08.1	18.3 Ro~lJt4H15
D4975	C2015 02 06.23637 07 25 57.52 +20 38 01.6	19.1 Ro~lKWmH15	79945	C2015 02 06.24975 07 27 46.30 +21 35 12.7	18.8 Ro~lK6RH15
D7978	C2015 02 06.23637 07 28 32.46 +20 38 05.3	20.0 Ro~lKYHH15	87458	C2015 02 06.24975 07 28 55.50 +22 22 23.0	18.9 Ro~lKA9H15
E5715	C2015 02 06.23637 07 27 01.59 +20 28 02.3	20.1 Ro~lKb6H15	90402	C2015 02 06.24975 07 27 26.12 +21 23 57.2	19.0 Ro~lKBhH15
28075	C2015 02 06.23889 07 28 52.77 +21 23 28.1	18.3 Ro~lJSvH15	A4728	C2015 02 06.24975 07 30 00.51 +21 42 08.1	18.4 Ro~lKIrH15
30132	C2015 02 06.23889 07 24 11.33 +22 18 57.3	18.5 Ro~lJUgH15	B2929	C2015 02 06.24975 07 28 23.74 +21 50 17.3	19.0 Ro~lKNhH15
36619	C2015 02 06.23889 07 28 52.58 +21 30 53.3	16.2 Ro~lJZtH15	B3364	C2015 02 06.24975 07 22 53.08 +21 50 40.8	18.5 Ro~lKNvH15
36869	C2015 02 06.23889 07 24 18.02 +21 34 47.9	19.0 Ro~lJaBH15	B6405	C2015 02 06.24975 07 22 43.41 +22 17 52.8	19.2 Ro~lKPgH15
39305	C2015 02 06.23889 07 28 35.58 +21 15 20.3	17.0 Ro~lJc4H15	G3466	C2015 02 06.24975 07 25 11.70 +22 51 58.9	18.7 Ro~lKh1H15
39831	C2015 02 06.23889 07 28 33.43 +21 50 33.1	17.2 Ro~lJcaH15	03968	C2015 02 06.25219 07 23 36.37 +24 11 02.2	16.5 Ro~lJ3kH15
41358	C2015 02 06.23889 07 22 35.52 +22 44 03.8	17.7 Ro~lJdpH15	08385	C2015 02 06.25219 07 25 58.70 +23 04 00.7	17.6 Ro~lJ9DH15
43962	C2015 02 06.23889 07 22 44.45 +22 32 36.9	18.4 Ro~lJg4H15	11540	C2015 02 06.25219 07 28 11.60 +23 24 37.9	17.8 Ro~lJC1H15
61958	C2015 02 06.23889 07 29 03.78 +22 22 09.4	18.4 Ro~lJt4H15	14029	C2015 02 06.25219 07 29 58.73 +24 16 43.6	18.1 Ro~lJFDH15
79945	C2015 02 06.23889 07 27 46.76 +21 35 09.1	19.3 Ro~lK6RH15	14203	C2015 02 06.25219 07 29 17.45 +24 13 45.0	17.8 Ro~lJFOH15
87458	C2015 02 06.23889 07 28 56.03 +22 22 19.8	18.9 Ro~lKA9H15	14223	C2015 02 06.25219 07 28 44.17 +23 22 32.0	18.5 Ro~lJFQH15
90402	C2015 02 06.23889 07 27 26.63 +21 23 54.3	18.9 Ro~lKBhH15	14718	C2015 02 06.25219 07 29 59.86 +24 16 15.5	17.4 Ro~lJFvH15
A4728	C2015 02 06.23889 07 30 00.92 +21 42 06.3	18.0 Ro~lKIrH15	22497	C2015 02 06.25219 07 27 58.28 +23 51 15.2	18.3 Ro~lJNjH15
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82940	C2015 02 14.15773 08 14 16.35 -00 47 04.6	18.9 Ro~lLikH15
93079	C2015 02 14.15773 08 11 00.65 -01 26 23.5	18.6 Ro~lLjuH15
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M4388	C2015 02 14.17651 08 13 02.73 +08 01 39.8	19.9 Ro~lLvYH15
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R7765	C2015 02 14.17651 08 09 35.55 +07 51 25.3	19.9 Ro~lLzhH15
R9236	C2015 02 14.17651 08 13 09.86 +07 30 38.4	20.5 Ro~lLzrH15
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F3188	C2015 02 14.17997 08 09 08.22 -00 47 06.6	19.3 Ro~lLq3H15
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42816	C2015 02 14.19499 08 19 38.77 -00 35 02.1	17.9 Ro~lLciH15
82786	C2015 02 14.19499 08 21 02.13 -00 41 17.8	19.1 Ro~lLiiH15
D1472	C2015 02 14.19499 08 19 56.41 -00 46 53.8	19.6 Ro~lLnzH15
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X4621	C2015 02 14.20405 08 19 27.19 -00 24 06.6	19.2 Ro~1M1wH15	K1286	C2015 02 14.23678 08 22 34.18 +06 58 16.5	19.4 Ro~1Lu3H15
f9427	C2015 02 14.20405 08 21 17.33 -00 04 03.3	20.0 Ro~1M56H15	N6082	C2015 02 14.23678 08 18 53.74 +07 48 26.5	20.1 Ro~1LwhH15
38230	C2015 02 14.20658 08 22 13.63 -02 00 09.1	19.1 Ro~1LbzH15	f5983	C2015 02 14.23678 08 22 25.14 +07 08 06.7	18.7 Ro~1M4vH15
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87719	C2015 02 14.20908 08 20 23.19 +02 12 11.7	18.5 Ro~1LjPH15	Q2512	C2015 02 14.24578 08 18 28.66 +05 13 33.8	19.6 Ro~1Ly9H15
C8314	C2015 02 14.20908 08 22 16.20 +01 24 17.9	18.4 Ro~1Ln1H15	T6987	C2015 02 14.24578 08 21 31.74 +06 13 34.7	20.0 Ro~1M0iH15
D3002	C2015 02 14.20908 08 19 57.74 +02 21 54.4	18.9 Ro~1Lo6H15	27735	C2015 02 14.24834 08 16 18.75 +07 16 20.0	18.3 Ro~1La3H15
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O3363	C2015 02 14.20908 08 20 26.76 +02 12 49.8	19.3 Ro~1LxEH15	51806	C2015 02 14.24834 08 21 38.35 +07 34 32.3	19.9 Ro~1LeOH15
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17127	C2015 02 14.21246 08 16 05.91 +03 38 47.6	18.5 Ro~1LXeH15	64928	C2015 02 14.24834 08 18 48.17 +06 41 50.8	19.3 Ro~1Lg6H15
67030	C2015 02 14.21246 08 17 07.61 +03 57 15.2	18.3 Ro~1LgNH15	D2705	C2015 02 14.24834 08 16 42.77 +06 29 20.7	19.6 Ro~1Lo3H15
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T5298	C2015 02 14.21246 08 16 28.80 +04 17 59.4	19.6 Ro~1M0dH15	J5909	C2015 02 14.24834 08 20 06.77 +07 53 58.8	20.0 Ro~1LtaH15
a6969	C2015 02 14.21246 08 20 13.80 +03 05 16.0	20.3 Ro~1M2nH15	J8850	C2015 02 14.24834 08 22 44.00 +07 31 56.5	20.2 Ro~1LtsH15
10000	C2015 02 14.21494 08 17 19.51 +00 14 22.8	19.3 Ro~1LVeH15	K1286	C2015 02 14.24834 08 22 33.63 +06 58 20.6	19.9 Ro~1Lu3H15
57604	C2015 02 14.21494 08 19 56.03 -00 19 27.5	18.4 Ro~1LfEH15	N6082	C2015 02 14.24834 08 18 53.27 +07 48 32.4	19.8 Ro~1LwhH15
67284	C2015 02 14.21494 08 17 43.26 +00 50 24.9	18.2 Ro~1LgOH15	f5983	C2015 02 14.24834 08 22 24.18 +07 08 00.0	19.4 Ro~1M4vH15
91352	C2015 02 14.21494 08 20 41.51 +00 44 14.3	19.4 Ro~1LjmH15	59523	C2015 02 14.25582 08 36 51.71 -01 33 20.1	19.2 Ro~1LfSH15
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E5199	C2015 02 14.21494 08 20 28.42 +01 01 24.3	19.9 Ro~1LpOH15	F5232	C2015 02 14.25582 08 30 28.45 -01 20 44.6	18.8 Ro~1LqFH15
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S7394	C2015 02 14.21494 08 19 07.69 +00 00 24.3	19.1 Ro~1M0KH15	f8824	C2015 02 14.25582 08 34 16.18 -02 12 56.8	19.8 Ro~1M55H15
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f9427	C2015 02 14.21494 08 21 16.82 -00 03 59.8	19.7 Ro~1M56H15	20788	C2015 02 14.25830 08 40 26.49 -01 39 14.4	16.8 Ro~1LYVH15
38230	C2015 02 14.21739 08 22 13.13 -02 00 04.7	18.9 Ro~1LbzH15	21373	C2015 02 14.25830 08 38 22.57 -00 34 44.0	15.9 Ro~1LYeH15
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C8314	C2015 02 14.21993 08 22 15.68 +01 24 24.1	18.3 Ro~1Ln1H15	T0848	C2015 02 14.26077 08 37 58.24 +01 03 11.5	19.2 Ro~1M0SH15
D3002	C2015 02 14.21993 08 19 57.28 +02 21 56.8	18.9 Ro~1Lo6H15	59523	C2015 02 14.26692 08 36 51.13 -01 33 16.4	18.4 Ro~1LfSH15
F3127	C2015 02 14.21993 08 20 24.88 +02 52 04.6	18.5 Ro~1Lq2H15	87698	C2015 02 14.26692 08 33 29.39 -01 18 10.1	18.6 Ro~1LjOH15
G8027	C2015 02 14.21993 08 22 26.11 +02 03 49.0	19.4 Ro~1LrNH15	F5232	C2015 02 14.26692 08 30 27.90 -01 20 41.5	19.0 Ro~1LqFH15
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02192	C2015 02 14.22340 08 20 52.76 +06 21 02.8	16.6 Ro~1LSmH15	f8824	C2015 02 14.26692 08 34 15.62 -02 12 57.2	19.3 Ro~1M55H15
29843	C2015 02 14.22340 08 22 37.95 +05 33 15.6	18.6 Ro~1LaVH15	K05W50X	C2015 02 14.26939 08 39 22.63 -01 39 02.6	19.3 Ro~1LJVH15
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F3890	C2015 02 14.22340 08 21 26.52 +05 29 35.1	19.2 Ro~1Lq9H15	72015	C2015 02 14.26939 08 40 21.62 -01 40 45.1	17.5 Ro~1Lh1H15
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T6987	C2015 02 14.22340 08 21 32.82 +06 13 23.8	19.8 Ro~1M0iH15	38678	C2015 02 14.27192 08 39 38.76 +00 32 52.4	17.5 Ro~1Lc3H15
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W6362	C2015 02 14.30146 08 52 30.95 -00 56 30.2	19.6 Ro~lM1IH15
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89296	C2015 02 14.30945 08 57 23.45 +04 22 12.2	18.9 Ro~lLjYH15
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25874	C2015 02 14.31784 08 52 18.03 +01 36 35.9	16.9 Ro~lLZfH15
57922	C2015 02 14.31784 08 54 20.91 +02 22 32.2	17.9 Ro~lLfGH15
64792	C2015 02 14.31784 08 52 55.44 +02 42 16.5	18.1 Ro~lLg5H15
65988	C2015 02 14.31784 08 57 02.87 +01 24 33.3	20.4 Ro~lLgDH15
82437	C2015 02 14.31784 08 53 01.82 +01 42 49.1	18.7 Ro~lLifH15
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V1022	C2015 02 14.31784 08 53 09.85 +01 40 38.7	19.3 Ro~lM0tH15
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61969	C2015 02 14.32034 08 58 05.91 +03 31 33.1	19.4 Ro~lLfmH15
89296	C2015 02 14.32034 08 57 22.84 +04 22 14.7	18.4 Ro~lLjYH15
A9232	C2015 02 14.32034 08 55 02.01 +04 28 46.1	18.8 Ro~lLlgH15
B6608	C2015 02 14.32034 08 55 39.96 +03 18 52.6	19.2 Ro~lLmeH15
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48493	C2015 02 14.32290 10 08 26.11 +31 03 28.3	18.3 Ro~lLdkH15
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01937          C2015 02 14.33456 10 08 08.05 +30 20 25.6          15.7 Ro~1LSfH15
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F3635	C2015 02 14.41155 10 04 54.82	+34 41 14.9	18.8 Ro~lLq5H15	E7505	C2015 02 14.44824 13 11 28.57	-15 11 15.7	19.3 Ro~lLpbH15
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69320   C2015 02 18.33758 10 28 10.93 -09 13 37.9          17.9 Ro~1LgfH15
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91418   C2015 02 18.37138 10 15 06.29 -04 52 18.6          19.0 Ro~1LjmH15
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91418	C2015 02 18.38203 10 15 05.75 -04 52 16.0	19.3 Ro~lLjmH15
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47916	C2015 02 18.40350 10 05 29.72 -05 41 36.7	17.8 Ro~lLdeH15
69783	C2015 02 18.40350 10 06 28.62 -04 57 38.8	19.1 Ro~lLgjH15
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G0156	C2015 02 18.40908 10 10 46.86 -08 35 11.3	19.0 Ro~lLqhH15
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77612	C2015 02 18.42300 10 05 02.34 -10 28 59.6	18.2 Ro~lLhqH15
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69783	C2015 02 18.42607 10 06 27.56 -04 57 31.5	19.3 Ro~lLgjH15
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17170          C2015 02 18.46438 09 52 51.99 +24 08 12.5          17.5 Ro~lLXfH15
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F3695          C2015 02 18.46438 09 47 17.25 +24 00 36.9          20.0 Ro~lLq6H15
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10824          C2015 02 18.46689 09 59 01.43 +22 46 26.0          18.6 Ro~lLVtH15
11086          C2015 02 18.46689 09 54 40.38 +22 18 27.8          16.8 Ro~lLW0H15
12935          C2015 02 18.46689 09 56 28.34 +22 29 13.8          18.3 Ro~lLWYH15
21925          C2015 02 18.46689 09 54 04.77 +22 00 01.3          17.3 Ro~lLYnH15
28025          C2015 02 18.46689 09 52 40.81 +22 53 15.9          17.6 Ro~lLa8H15
45279          C2015 02 18.46689 09 59 44.77 +22 22 33.1          19.2 Ro~lLdAH15
50488          C2015 02 18.46689 09 56 21.44 +22 24 57.5          18.4 Ro~lLeAH15
51582          C2015 02 18.46689 09 54 32.79 +22 45 23.0          18.8 Ro~lLeLH15
60666          C2015 02 18.46689 09 58 43.89 +23 06 16.9          18.0 Ro~lLfdH15
75442          C2015 02 18.46689 09 57 08.68 +22 09 13.5          18.3 Ro~lLhXH15
76788          C2015 02 18.46689 09 58 17.26 +23 36 55.4          19.0 Ro~lLhiH15
77624          C2015 02 18.46689 09 53 46.05 +22 55 21.4          19.4 Ro~lLhqH15
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F8535          C2015 02 18.46689 09 57 15.88 +22 05 22.6          19.5 Ro~lLqZH15
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R6724          C2015 02 18.46689 09 54 13.16 +22 02 31.3          19.3 Ro~lLzbH15
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00766          C2015 02 18.47261 09 54 22.72 +23 53 11.0          14.2 Ro~lLS4H15
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41853          C2015 02 18.47261 09 59 18.57 +24 51 03.3          18.5 Ro~lLcZH15
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76428          C2015 02 18.47261 09 56 04.18 +24 56 28.2          19.6 Ro~lLheH15
79827          C2015 02 18.47261 10 00 00.92 +23 51 09.3          18.9 Ro~lLiIH15
81376          C2015 02 18.47261 09 52 55.90 +24 25 01.9          19.1 Ro~lLiXH15
86867          C2015 02 18.47261 09 59 17.02 +24 29 13.8          18.8 Ro~lLjFH15
97284          C2015 02 18.47261 09 56 49.54 +24 16 54.0          17.9 Ro~lLkOH15
B0192          C2015 02 18.47261 09 55 03.41 +25 25 47.9          19.6 Ro~lLlsH15
B6522          C2015 02 18.47261 09 57 42.94 +25 08 23.7          19.0 Ro~lLmdH15
B8762          C2015 02 18.47261 09 55 52.56 +24 50 59.9          19.1 Ro~lLmqH15
C3535          C2015 02 18.47261 09 53 07.99 +25 10 48.8          18.4 Ro~lLnJH15
H1530          C2015 02 18.47261 09 53 53.88 +24 35 22.1          19.0 Ro~lLrdH15
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04852          C2015 02 18.47521 09 52 10.65 +24 41 22.6          17.9 Ro~lLTsH15
17170          C2015 02 18.47521 09 52 51.27 +24 08 17.5          17.5 Ro~lLXfH15
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50757          C2015 02 18.47521 09 49 29.36 +24 58 36.3          19.5 Ro~lLeDH15
63470          C2015 02 18.47521 09 47 39.40 +23 57 53.7          19.7 Ro~lLfwH15
A8610          C2015 02 18.47521 09 50 20.61 +24 43 34.0          19.7 Ro~lLlYH15
B6802          C2015 02 18.47521 09 50 27.04 +24 41 29.3          19.3 Ro~lLmgH15
F3695          C2015 02 18.47521 09 47 16.62 +24 00 39.7          20.1 Ro~lLq6H15
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31722	C2015 02 18.48471 09 56 52.30 +25 20 08.9	18.5 Ro~lLasH15
41853	C2015 02 18.48471 09 59 17.73 +24 51 06.4	18.6 Ro~lLcZH15
54249	C2015 02 18.48471 09 59 19.44 +24 19 28.7	18.8 Ro~lLelH15
72395	C2015 02 18.48471 09 57 05.64 +24 06 08.8	18.8 Ro~lLh4H15
76428	C2015 02 18.48471 09 56 03.48 +24 56 33.9	19.6 Ro~lLheH15
79827	C2015 02 18.48471 10 00 00.19 +23 51 12.0	19.0 Ro~lLiIH15
81376	C2015 02 18.48471 09 52 55.26 +24 25 04.6	19.6 Ro~lLiXH15
86867	C2015 02 18.48471 09 59 16.25 +24 29 18.9	19.4 Ro~lLjFH15
97284	C2015 02 18.48471 09 56 48.92 +24 16 58.4	18.3 Ro~lLkOH15
B0192	C2015 02 18.48471 09 55 02.72 +25 25 49.6	19.1 Ro~lLlsH15
B6522	C2015 02 18.48471 09 57 42.15 +25 08 39.1	19.4 Ro~lLmdH15
B8762	C2015 02 18.48471 09 55 51.93 +24 51 04.1	19.7 Ro~lLmqH15
C3535	C2015 02 18.48471 09 53 07.16 +25 10 47.9	18.5 Ro~lLnJH15
H1530	C2015 02 18.48471 09 53 53.17 +24 35 25.7	19.4 Ro~lLrdH15
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02488	C2015 02 18.48728 09 51 50.12 +24 34 12.4	18.3 Ro~lLSvH15
04852	C2015 02 18.48728 09 52 09.82 +24 41 25.5	18.1 Ro~lLTsH15
17170	C2015 02 18.48728 09 52 50.49 +24 08 22.6	17.6 Ro~lLXfH15
35898	C2015 02 18.48728 09 49 29.29 +23 47 14.4	18.9 Ro~lLbcH15
50757	C2015 02 18.48728 09 49 28.62 +24 58 39.5	19.7 Ro~lLeDH15
63470	C2015 02 18.48728 09 47 38.69 +23 57 57.3	19.9 Ro~lLfwH15
A8610	C2015 02 18.48728 09 50 19.83 +24 43 37.1	19.9 Ro~lLlYH15
B6802	C2015 02 18.48728 09 50 26.46 +24 41 32.7	19.5 Ro~lLmgH15
F3695	C2015 02 18.48728 09 47 15.85 +24 00 44.0	19.6 Ro~lLq6H15
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07758	C2015 02 19.12219 08 06 06.18 -11 25 43.4	18.0 Ro~lLUtH15
10689	C2015 02 19.12714 08 13 07.35 -10 45 54.6	17.7 Ro~lLVqH15
J5906	C2015 02 19.12979 08 14 40.57 -08 18 53.7	19.7 Ro~lLtaH15
A8519	C2015 02 19.13229 08 13 23.39 -12 38 27.4	19.1 Ro~lLlXH15
B6628	C2015 02 19.13477 08 09 55.86 -13 25 51.4	17.9 Ro~lLmeH15
10689	C2015 02 19.13866 08 13 07.00 -10 45 48.9	17.9 Ro~lLVqH15
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J5906	C2015 02 19.15205 08 14 39.82 -08 18 39.7	18.9 Ro~lLtaH15
A8519	C2015 02 19.15464 08 13 21.09 -12 38 28.6	19.3 Ro~lLlXH15
B6628	C2015 02 19.15718 08 09 54.84 -13 25 49.0	17.9 Ro~lLmeH15
96188	C2015 02 19.16068 08 16 55.71 -10 09 29.8	18.2 Ro~lLkGH15
03246	C2015 02 19.16323 08 21 41.82 -08 40 02.1	16.3 Ro~lLTGH15
30541	C2015 02 19.16323 08 18 34.66 -08 30 43.0	18.2 Ro~lLadH15
96188	C2015 02 19.17155 08 16 55.20 -10 09 19.5	18.5 Ro~lLkGH15
03246	C2015 02 19.17404 08 21 41.41 -08 39 56.3	16.3 Ro~lLTGH15
30541	C2015 02 19.17404 08 18 34.22 -08 30 38.4	18.6 Ro~lLadH15
96188	C2015 02 19.18272 08 16 54.60 -10 09 09.6	18.5 Ro~lLkGH15
03246	C2015 02 19.18516 08 21 41.03 -08 39 50.5	16.3 Ro~lLTGH15
30541	C2015 02 19.18516 08 18 33.82 -08 30 33.6	18.5 Ro~lLadH15
00568	C2015 02 19.20104 08 29 40.98 -08 12 52.9	13.1 Ro~lLRzH15
00568	C2015 02 19.21277 08 29 40.43 -08 12 49.7	13.1 Ro~lLRzH15
00568	C2015 02 19.22354 08 29 39.91 -08 12 46.4	13.0 Ro~lLRzH15
43807	C2015 02 19.23218 08 47 18.50 -12 10 08.7	18.7 Ro~lLcsH15
43807	C2015 02 19.24335 08 47 18.11 -12 10 02.0	18.6 Ro~lLcsH15
43807	C2015 02 19.25536 08 47 17.59 -12 09 56.0	18.9 Ro~lLcsH15
92901	C2015 02 19.44244 11 09 36.62 +36 00 44.6	18.4 Ro~lLjsH15
M1333	C2015 02 19.44244 11 05 48.11 +37 34 41.8	18.8 Ro~lLvHH15
b7075	C2015 02 19.44244 11 06 15.68 +36 49 38.5	19.9 Ro~lM3pH15
B1687	C2015 02 19.44494 11 09 50.10 +37 57 30.2	18.3 Ro~lLm1H15
92901	C2015 02 19.45334 11 09 35.82 +36 00 45.7	18.3 Ro~lLjsH15
M1333	C2015 02 19.45334 11 05 46.78 +37 34 36.1	18.7 Ro~lLvHH15
b7075	C2015 02 19.45334 11 06 15.07 +36 49 40.9	20.4 Ro~lM3pH15
B1687	C2015 02 19.45584 11 09 49.27 +37 57 31.5	18.1 Ro~lLm1H15
92901	C2015 02 19.46482 11 09 34.96 +36 00 47.2	18.4 Ro~lLjsH15
M1333	C2015 02 19.46482 11 05 45.42 +37 34 31.4	18.7 Ro~lLvHH15
b7075	C2015 02 19.46482 11 06 14.38 +36 49 46.0	20.0 Ro~lM3pH15
B1687	C2015 02 19.46732 11 09 48.35 +37 57 32.4	18.1 Ro~lLm1H15

ISON-Uzhgorod (K99)

31656	C2015 02 13.13297 12 23 29.33 -09 05 08.3	17.9 Vu~lJVvK99
31656	C2015 02 13.16472 12 23 28.81 -09 05 03.4	17.9 Vu~lJVvK99
31656	C2015 02 13.17990 12 23 28.63 -09 05 00.5	17.2 Vu~lJVvK99
J5391	C2015 02 13.72941 08 30 23.27 +55 50 32.5	19.6 Vu~lLtXK99
J5391	C2015 02 13.75222 08 30 21.14 +55 50 19.9	19.9 Vu~lLtXK99
J5391	C2015 02 13.78778 08 30 17.77 +55 49 56.2	19.2 Vu~lLtXK99

ISON-Byurakan (L96)

F4630	C2015 02 22.71285 07 50 22.63 +57 39 56.3	18.5 Vq~lMXAL96
F4642	C2015 02 22.71285 07 53 32.70 +56 52 37.2	18.6 Vq~lMXAL96
R5976	C2015 02 22.71370 07 49 44.12 +58 25 51.9	19.3 Vq~lMeTL96
F4630	C2015 02 22.71976 07 50 22.41 +57 39 49.6	19.0 Vq~lMXAL96
F4642	C2015 02 22.71976 07 53 32.39 +56 52 30.3	18.6 Vq~lMXAL96
F4630	C2015 02 22.72667 07 50 22.16 +57 39 41.3	18.6 Vq~lMXAL96
R5976	C2015 02 22.72752 07 49 43.61 +58 25 33.3	19.1 Vq~lMeTL96
F4630	C2015 02 22.73358 07 50 21.75 +57 39 36.1	19.1 Vq~lMXAL96
F4642	C2015 02 22.73358 07 53 32.22 +56 52 18.0	18.2 Vq~lMXAL96
R5976	C2015 02 22.73442 07 49 43.62 +58 25 25.0	18.2 Vq~lMeTL96
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O6580	C2015 02 22.74829 08 19 38.78 +59 49 21.0	19.3 Vq~lMcwL96
39197	C2015 02 22.74914 08 30 34.46 +60 54 06.0	17.5 Vq~lMJsL96
O6580	C2015 02 22.75520 08 19 38.49 +59 49 19.8	19.1 Vq~lMcwL96
39197	C2015 02 22.75605 08 30 33.88 +60 54 01.0	17.3 Vq~lMJsL96
O6580	C2015 02 22.76211 08 19 38.13 +59 49 15.7	19.1 Vq~lMcwL96
39197	C2015 02 22.76296 08 30 33.38 +60 53 55.8	17.6 Vq~lMJsL96
28240	C2015 02 23.86922 10 37 00.57 +02 03 07.0	18.5 Vq~lMI6L96
21106	C2015 02 23.86922 10 29 27.85 +01 08 20.7	18.2 Vq~lMGZL96
08306	C2015 02 23.86922 10 31 24.35 +02 56 19.7	19.0 Vq~lMDVL96
00685	C2015 02 23.86922 10 30 19.14 +03 14 37.5	15.1 Vq~lMAVL96
03869	C2015 02 23.86922 10 34 05.65 +01 41 38.1	16.9 Vq~lMC0L96
14133	C2015 02 23.86922 10 30 53.87 +01 30 31.1	17.7 Vq~lMF2L96
34223	C2015 02 23.86922 10 33 38.89 +02 10 28.2	17.5 Vq~lMJ7L96
41828	C2015 02 23.86922 10 34 57.15 +02 18 47.3	18.9 Vq~lMKIL96
47050	C2015 02 23.86922 10 32 40.45 +02 20 29.5	16.8 Vq~lML9L96
47658	C2015 02 23.86922 10 33 37.36 +01 43 59.9	18.6 Vq~lMLHL96
59756	C2015 02 23.86922 10 32 41.19 +01 59 56.4	18.5 Vq~lMNBL96
79121	C2015 02 23.86922 10 32 47.19 +02 08 48.2	18.1 Vq~lMPnL96
80582	C2015 02 23.86922 10 31 05.38 +02 13 33.2	18.4 Vq~lMQ0L96
81919	C2015 02 23.86922 10 30 09.63 +01 14 57.8	19.1 Vq~lMQCL96
A5408	C2015 02 23.86922 10 35 10.79 +01 44 45.3	19.7 Vq~lMSjL96
B0200	C2015 02 23.86922 10 33 37.30 +03 17 50.8	18.9 Vq~lMTEL96
F1480	C2015 02 23.86922 10 36 47.03 +01 08 14.6	19.0 Vq~lMWwL96
G1239	C2015 02 23.86922 10 33 56.72 +02 01 01.6	18.7 Vq~lMXdL96
27234	C2015 02 23.87008 10 32 28.40 +03 19 55.2	17.3 Vq~lMHuL96
25478	C2015 02 23.87008 10 32 17.70 +03 42 17.4	18.0 Vq~lMHWL96
24655	C2015 02 23.87008 10 34 26.63 +04 42 49.2	18.8 Vq~lMHLL96
21378	C2015 02 23.87008 10 34 46.35 +04 44 31.3	16.1 Vq~lMGcL96
14509	C2015 02 23.87008 10 33 30.16 +04 08 05.7	18.0 Vq~lMF8L96
24176	C2015 02 23.87008 10 30 11.07 +04 59 27.5	17.1 Vq~lMHFL96
08795	C2015 02 23.87008 10 36 00.56 +05 03 36.8	17.7 Vq~lMDgL96
48115	C2015 02 23.87008 10 33 42.11 +04 21 40.9	18.6 Vq~lMLNL96
56697	C2015 02 23.87008 10 36 20.47 +04 04 29.8	18.2 Vq~lMMqL96
75695	C2015 02 23.87008 10 31 13.38 +04 57 37.5	18.6 Vq~lMPFL96
80556	C2015 02 23.87008 10 30 18.36 +03 31 09.7	17.7 Vq~lMPzL96
87360	C2015 02 23.87008 10 36 53.44 +04 08 46.3	17.5 Vq~lMQsL96
93434	C2015 02 23.87008 10 30 55.28 +05 23 57.6	16.6 Vq~lMRVL96
93917	C2015 02 23.87008 10 29 26.24 +03 42 44.0	18.2 Vq~lMRbL96
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G1575	C2015 02 23.87008 10 35 29.47 +05 04 44.5	18.9 Vq~lMXeL96
G9449	C2015 02 23.87008 10 29 03.32 +04 41 10.1	19.2 Vq~lMYGL96
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28451	C2015 02 23.87093 10 35 18.56 +06 16 58.8	18.0 Vq~lMI9L96
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10211	C2015 02 23.87093 10 35 47.85 +07 37 39.9	17.7 Vq~lME4L96
19949	C2015 02 23.87093 10 36 07.95 +06 17 04.0	19.4 Vq~lMGJL96
19535	C2015 02 23.87093 10 36 38.82 +06 52 53.5	18.7 Vq~lMGEL96
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13169	C2015 02 23.87093 10 37 45.08 +06 10 27.5	17.7 Vq~lMEpL96
06766	C2015 02 23.87093 10 37 06.90 +06 17 10.7	18.4 Vq~lMD2L96
00358	C2015 02 23.87093 10 34 41.88 +07 22 19.5	12.4 Vq~lMALL96
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19113	C2015 02 23.87093 10 35 34.90 +05 54 49.2	18.5 Vq~lMG9L96
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42843	C2015 02 23.87093 10 35 33.73 +07 34 13.5	17.2 Vq~lMKQL96
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50359	C2015 02 23.87093 10 29 07.70 +07 14 07.6	17.7 Vq~lMLnL96
53928	C2015 02 23.87093 10 35 11.61 +06 47 06.4	19.8 Vq~lMMRL96
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59471	C2015 02 23.87093 10 32 45.40 +06 57 26.6	18.5 Vq~lMN7L96
62351	C2015 02 23.87093 10 34 03.76 +06 20 35.8	19.9 Vq~lMNTL96
63610	C2015 02 23.87093 10 36 02.88 +05 38 44.4	17.7 Vq~lMNdL96
64840	C2015 02 23.87093 10 35 27.08 +06 08 49.9	18.9 Vq~lMNmL96
74748	C2015 02 23.87093 10 30 59.40 +06 11 29.9	18.4 Vq~lMP4L96
77678	C2015 02 23.87093 10 36 36.61 +07 14 55.5	19.6 Vq~lMPXL96
79371	C2015 02 23.87093 10 30 03.24 +06 20 42.3	17.7 Vq~lMPpL96
80742	C2015 02 23.87093 10 36 54.20 +06 40 00.7	18.0 Vq~lMQ2L96
89315	C2015 02 23.87093 10 37 08.81 +07 11 00.7	19.7 Vq~lMR6L96
89646	C2015 02 23.87093 10 37 27.43 +06 24 50.4	18.8 Vq~lMR8L96
97267	C2015 02 23.87093 10 34 46.06 +05 52 09.3	19.0 Vq~lMRtL96
99969	C2015 02 23.87093 10 30 09.09 +05 58 10.5	18.7 Vq~lMS9L96
A0557	C2015 02 23.87093 10 32 03.34 +06 08 57.1	18.4 Vq~lMSCL96
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D1706	C2015 02 23.87093 10 33 31.26 +07 22 18.0	19.5 Vq~lMVHL96
D9061	C2015 02 23.87093 10 37 17.04 +07 38 11.7	18.4 Vq~lMVyL96
F6431	C2015 02 23.87093 10 36 24.84 +06 50 22.0	19.0 Vq~lMXIL96
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D1118 C2015 02 23.89603 10 35 28.35 +13 12 58.6 18.5 Vq~1MVDL96
D6815 C2015 02 23.89603 10 33 38.43 +13 34 08.3 18.1 Vq~1MVhL96
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ISON-Hureltogoot (O75)

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K15C13M C2015 02 15.58697 11 09 12.91 +49 40 27.8 17.9 Rq~1LObO75

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