

Revised Eccentricity Files - Release 200420

2020.04.20

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Since the middle of last year Van Husson initiated an effort to review the NASA station site logs and internal logbooks with a comparison to information that was available in public. Van found numerous pieces of information that were not previously disclosed or were reported incorrectly. A lot of these pertained to eccentricity related issues, including missing survey entries, wrong entries, and incorrect entries. Another substantial amount of changes was related to local systematics and the correct period over which they applied, these however will be dealt with in the revision of the Data Handling file (completed and soon to be released too).

Here we will focus on the new eccentricity files dated 200420. Since the revisions are not simply additional new entries and affect more than a couple of sites, their application requires careful review of the new vs the old (previous) version of the eccentricity files used by each AC. We assume here that you all use the last revision of the eccentricity files dated 191030, so our comparisons are done wrt that last release of the eccentricity files.

To simplify your task, we furnish (along with the standard text version of the new release) an annotated RTF version that contains the revised/new records in the "SITE/ECCENTRICITY" Block highlighted in RED font so that you can easily spot the changes that need to be applied (ONLY the UNE file is included below but the changes are at the same locations for the XYZ version).

One change that is not visible from this comparison is the deletion of an eccentricity entry for Arequipa (7403) which does not correspond to a real survey (it was inferred from an IGN site survey which had used an outdated a priori value):

```
7403 A 1 L 13:011:00000 00:000:00000 XYZ 0.8170 -2.4553 -0.7532
```

```
7403 A 1 L 13:011:00000 00:000:00000 UNE 2.6950 0.0111 -0.0046
```

These records no longer exist in the two new files. The new files should be implemented immediately for all operational products and the ITRF2020 reprocessing effort.

The file "slrecc.200420.ILRS.une.snx":

```
%=SNX 2.02 JCT 20:111:61200 JCT 68:041:00000 20:111:61200 L 00549 0 X
+FILE/REFERENCE
DESCRIPTION      UNE 200420 ILRS eccentricities file
OUTPUT           ILRS SINEX Formatted Eccentricity File
CONTACT          epavlis@UMBC.edu
SOFTWARE         JCET's eccCDDIS2snx
HARDWARE         Apple MacBook Pro
INPUT            Official Eccentricity file from CDDIS (110707)
INPUT            and previous version slrecc.191030.ILRS.une.snx
INPUT            Numerous emails/reports from Van Husson's review
-FILE/REFERENCE
+INPUT/HISTORY
%=SNX 2.02 JCT 20:111:61200 JCT 68:041:00000 20:111:61200 L 00549 0 X
-INPUT/HISTORY
+FILE/COMMENT
*
* LAST UPDATE 20 Apr., 2020, MAJOR UPDATE WITH MANY CORRECTIONS IN
* ENTRIES OF PRIOR YEARS !!!
```

*
 * UPDATED 30 Oct., 2019, Added new 7865 Stafford, NRL entry
 *
 * UPDATED 25 Sep., 2019, Added 7395 Geochang & 7396 Wuhan (JFNL)
 *
 * UPDATED 26 Mar., 2019, New surveys for 7110, 7119, 7403 and 7501
 *
 * UPDATED 12 Feb., 2018, Corrected last Ajaccio (78486904) entry
 *
 * UPDATED 06 Feb., 2018, Added new Russian (HRTL) system (7503)
 *
 * UPDATED 02 Nov., 2017, End-date for 1891 corrected to 00:000:00000
 *
 * UPDATED 12 Feb., 2017, Added new Kunming system (7819)
 *
 * UPDATED 5 July, 2016, Added Sejong 7394
 *
 * UPDATED 29 Sept., 2015, Added Irkutsk 1891, Brazilia 7407 & SOSW 7827
 *
 * UPDATED 21 Nov., 2014, to convert the two superfluous Arequipa entries
 * for the period 92:196:00000 04:031:86399 to comments by placing a "*" in column 1 of the records.
 *
 * UPDATED 9 Apr., 2014, Corrected geographic coordinates of Altay 1879
 *
 * Some SITEID_BLOCK entries were also corrected !!!
 *
 * This has corrections to 7090 pending clarification from GA.
 *
 * UPDATED 25 Oct., 2013, Added 7359 Daedeok, Korea
 * UPDATED 18 Dec., 2012, Added 1887, 1888, 1889, 1890, 7822
 * UPDATED 29 May, 2012, Added new Beijing SOD 72496102
 * UPDATED 5 Aug., 2011, Corrected start date for 74031304 Occupation
 * UPDATED 7 July, 2011, Added new sites/SOD 1886, 7119, 7403
 * UPDATED 18 Mar., 2011, Corrected sign of NEU ecc. for 2001 Urumqi
 * UPDATED 9 July, 2010, Corrected 1981 7110 Effective dates
 * UPDATED 13 May 2010, Based on Contents slrecc.100513
 * UPDATED 13 April 2010, Based on Contents slrecc.100309
 * UPDATED 14 May 2009, Added Altay site (from site log)
 * UPDATED 13 Nov. 2008 Source: Previous & new 7405 eccentricity
 * UPDATED 19 May 2008 Source: CDDIS slrecc.070924 & Burnie info
 * UPDATED 02 May 2008, added 7370 eccentricity from FTLS survey
 * UPDATED 05 Oct. 2007, added 7119 eccentricity from HTSI survey
 * UPDATED 15 Aug. 2007, the file has been recreated on the basis of the
 * eccentricity file maintained on CDDIS (version of 070625) and all
 * known (508 up to present) SLR site occupations have been included
 * in this version, irrespective of whether the data exist or
 * not in the CDDIS archives. Identification of the correct set of
 * eccentricities to be used is now aided by the inclusion of the
 * familiar CDP SOD 8-digit identification No. with each entry.
 * With this release we format the file in a more "formal" SINEX
 * form, including all the mandatory records. The value of the
 * "estimated parameters in the header is really the number of sites
 * (unique 8-digit No. and eccentricity combinations!) included, and
 * we use "X" to designate "eccentricity" information as contents.
 * The first-last dates indicate the earliest and latest dates that
 * appear in this file, with the latter equal to the release date,
 * indicating that this is current up that date. For all current
 * occupations the end-date is set to 00:000:00000 as in past

* releases.
 *
 * (See footnotes 14 & 15 for more details)
 *
 * UPDATED 29 June 2005, prior to release to ILRS web (ECP)
 * UPDATED 12 April 2004, to add Helwan A (7831) eccentricity
 * UPDATED 29 January 2004, to RETRO-actively change the 2nd set
 * of eccs for station 7501
 * UPDATED 7 October 2003, to add the SITE/ID block
 * UPDATED 10 September 2003, to fix sign on Urumqi (7355) initial
 * eccs from its first occupation
 * UPDATED 15 July 2003, added Beijing A (7357) eccentricity
 * UPDATED 14 July 2003, added Greenbelt (GUTS at 7127) and new Monument
 * Peak (7110) eccentricities
 * UPDATED 30 June 2003, added Olifantsfontein (7902), closed out 7548 and 7505
 * and fixed inversion error in 7830 North and UP eccs
 * UPDATED 13 May 2003, added 2nd occupation of Urumqi (7355)
 * UPDATED 23 April 2003, added FTLRS eccentricity at Chania, Crete (7830)
 * UPDATED 20 February 2003 (See footnote 13 for revision)
 * UPDATED 18 December 2002 (See footnote 12 for the revision)
 * UPDATED 22 November 2002 (See footnote 11 for the revision)
 * UPDATED 20 October 2002, to change the DOMES number for
 * 7301 and 7302 from 'S' to 'M', added three DOMES numbers for
 * 7307 which now give that site 4 unique DOMES numbers and point codes

* Eccentricities are sorted by CDP marker number.

* List of station eccentricities from the marker to the intersection of
 * optical axis (i.e. optical axes - marker, the UP eccentricity should
 * in most cases be positive)

* Special Notes:

- * (1) Eccentricities, by definition, should NOT exceed a
 * magnitude of 15 meters (+/-). If they exceed +/- 15 meters,
 * then they are considered a LOCAL TIE.
- * (2) HTLRS occupations of marks (7300, 7304, 7307, 7321, 7322, 7323,
 * 7844) have very large eccentricities, which violate the intention
 * of system eccentricities (see note:1 above) and violate the
 * F8.4 SINEX eccentricity format. The data from these locations
 * may NOT exist in the ILRS global data centers. Since the
 * eccentricities violate the SINEX format, we have listed them in
 * this release with only three (3) decimal places, in order to
 * provide users who have access to these data, with these information.

* NOTE: For most accurate results, please use the UNE eccentricities
 * instead of the Cartesian version which are prone to large
 * conversion errors due to the large distances between the sites.

CDP	Start_epoch	End_epoch	UNE	Up(m)	North(m)	East(m)
7300	89:010:00000	89:083:00000	UNE	-0.6140	-516.4230	-565.4650
7304	90:336:00000	91:038:00000	UNE	1.8990	-114.0920	152.6220
7307	88:200:00000	88:261:00000	UNE	-17.6930	-1490.1010	-4030.6300
7307	97:215:00000	97:309:00000	UNE	-19.6060	-1499.9910	-3979.5520
7307	98:223:00000	98:317:00000	UNE	-19.6060	-1499.7820	-3979.7450
7307	99:257:00000	99:346:00000	UNE	-19.6100	-1510.8970	-3982.0250
7321	94:152:00000	94:304:00000	UNE	2.1830	-259.1000	-49.6760

* 7322 95:305:00000 96:091:00000 UNE -4.1810 -51.5480 -118.8600
 * 7323 94:001:00000 94:090:00000 UNE -25.1050 -653.5770 -573.9810
 * 7844 88:001:00000 88:073:00000 UNE 210.1370 -728.2680 1870.2800
 * 7844 96:122:00000 96:213:00000 UNE 210.2150 -725.4850 1865.3340
 *
 *
 *

* (3) Yarragedee has been occupied by an SLR system since 1979.

* The 1st set of eccentricities were measured in 1979 and
 * were remeasured in 1987. There was a noted significant difference
 * of 8mm in the UP eccentricities between these 2 surveys,
 * which is still unexplained. The possible causes could be an
 * error in the original value or a change due to mount re-leveling(s)
 * during those 8 years. The net effect of this change will be
 * a 8mm discontinuity in the station's height on the date (day 225)
 * of the 1987 survey.
 *

* In 1992, the mount was removed and refurbished resulting
 * in a new position and eccentricities of the optical axes
 * relative to the mark 7090. The eccentricities were remeasured
 * on 20 August 1998 (day 232), but the observed changes in
 * eccentricities relative to the previous measurements in 1992
 * were within the uncertainty of the measurement. Therefore the
 * 1992 eccentricities are still considered valid. The 1998
 * measurements in UNE were 3.1809 m, -0.0083 m, and 0.0178 m,
 * respectively.
 *

*7090 A 1 L 92:203:00000 00:000:00000 UNE 3.1809 -0.0083 0.0178 70900513
 *

* A new measurement in 2003 produced yet another set of eccentricities
 * which are still indistinguishable from the 1992, given their accuracy.
 *

*7090 A 1 L 03:331:00000 00:000:00000 UNE 3.1821 -0.0083 0.0184 70900513
 *

* (4) Greenbelt in 1985 had 3 systems (MOBLAS-7, MOBLAS-2 and TLRs-2)
 * simultaneously occupying marker 7105 during. MOBLAS-2 and TLRs-2
 * were in engineering evaluation and were physically
 * parked on the street near MOBLAS-7. The data from these
 * two systems (MOBLAS-2 and TLRs-2) was never released and older
 * versions were missing these eccentricities. With the introduction
 * of CDP SOD Nos., we can avoid confusion and we have re-entered them.
 *

* (5) The Japanese Keystone systems (Koganei 7328, Kashima 7335,
 * Miura 7337, and Tateyama 7339) eccentricities were remeasured
 * in October 1999 and differed by a few to many millimeters
 * from the original values measured in 1997. The original 1997
 * eccentricities are believed to be in error and have been
 * replaced by the 1999 values.
 *

* (6) Arequipa eccentricities were remeasured post-earthquake on 13 July
 * 2001 (day 194), but the observed changes in eccentricities relative to
 * the previous measurements in 1994 were within the uncertainty
 * of the measurement. Therefore the 1994 eccentricities
 * are still considered valid. The 2001 measurements in UNE were
 * 2.6951 m, 0.0112 m, and -0.0046 m, respectively.
 *

* (7) Mark 7889 was destroyed during construction of marker 7130
 *

* (8) TLRs-1 7082 eccentricities in late 1983 and early 1984 were measured
 * changes due to upheaval of the pad from freezing cold temperatures. The
 *

- * position of the mark 7082 and it's concrete pad probably also changed.
*
- * (9) TIG0's 7594 eccentricity at Wettzell was measured in Jan 1998 and
* Feb 2001. In 2001, there was a 5mm change in the East component.
* The Jan 1998 "EAST" ecc. measurement is believed to be in error
* and has been replaced with the Feb 2001 value (i.e. the Feb 2001
* measurements are back-dated to Jan 1998).
*
- * (10) TIG0's 7405 "UP" eccentricity at Concepcion was incorrectly
* reported in the original site log. The corrected "UP" eccentricity
* appears below for entry 7405:
*
- * (11) The start date of 79:135:00000 for eccentricity 7102 was changed
* to 79:138:00000 to avoid overlap with previous 7102 entry.
*
- * (12) a. Modified the end date(s) to ensure there were no overlaps between
* consecutive site eccentricities.
* (e.g. changed enddate 99:020:00000 to 99:019:86399)
*
- * b. Modified the end dates to ensure eccentricities cover the entire
* last day of the site occupation versus the beginning of the last
* day.
* (e.g. 91:340:00000 to 91:340:86399)
*
- * c. Added another entry for Zimmerwald (7810) to correspond
* to the two 7810 DOMES numbers (140015001 & 140015007).
* The last entry has a point code of "B" to distinguish it
* from point "A".
*
- * d. Added another entry for San Fernando (7824) to correspond
* to the two 7824 DOMES numbers (134025004 & 134025007).
* The last entry has a point code of "B" to distinguish it
* from point "A".
*
- * e. Added eccentricities for 7941 in Matera and 7841 in Potsdam.
*
- * f. Closed out old occupations.
*
- * (13) a. The eccentricities for the FTLRS 2002 occupation of
* Ajaccio were retroactively modified due to the final survey
* conducted by IGN in September 2002 (i.e. the original
* eccentricities were an approximation).
*
- * (14) This version in addition to the other changes, it expands the
* SITE/ID block to include a separate entry for each known SLR
* site occupation, corresponding to each CDP SOD 8-digit No.
* On the same record we include in the "_STATION DESCRIPTION_"
* string the system that occupied the site in each case.
* In addition to that, we have added one more field beyond
* column 80, not to interfere with the current SINEX format.
* In cols. 81-89 we insert the "CDP-SOD_" field where we list
* the CDP SOD 8-digit Nos for the particular occupation.
*
- * (15) In the case of two sites, Bear Lake, Utah (TLRS-1) 7082 and Arequipa,
* Peru, (TLRS-3) 7403, we have multiple surveys which all fall under one
* SOD No.. In past releases only one of these was included. This release
* includes all surveys and associates them with time intervals defined
* by the "Effective date" listed in the CDDIS eccentricity master file.
* In all cases the differences are small, a few mm at most, but these are

* considered significant today, so we suggest users apply them. The
 * explanation given for these are detailed in footnotes (8) and (6)
 * respectively.
 *

-FILE/COMMENT
 +SITE/ID

*Code	PT	__DOMES__	T	_STATION	DESCRIPTION__	APPROX_LON_	APPROX_LAT_	_APP_H_	CDP-SOD_
1148	A	---	L	Ondrejov	OND. FIXED	14 47 08.1	49 54 49.3	592.6	11480901
1181	A	14106S001	L	Potsdam	GDR FIXED	13 3 55.0	52 22 48.9	148.5	11813901
1824	A	12356S001	L	Kiev	KIEV FIXED	30 29 45.1	50 21 47.2	213.1	18248101
1831	A	12368S001	L	Lviv	LVIV	23 57 15.8	49 55 3.2	359.8	18318501
1863	A	12340S001	L	Maidanak	MDN. FIXED	66 56 35.3	38 41 8.6	2712.0	18635101
1864	A	12340S002	L	Maidanak	MDN2 FIXED	66 56 35.1	38 41 5.6	2714.2	18645401
1866	A	12347S001	L	Dunaovcy	DUN. FIXED	26 43 6.3	48 50 53.6	397.2	18665201
1867	A	12344S001	L	Evpatoria	EVP. FIXED	33 9 50.5	45 13 11.0	47.7	18675301
1868	A	12341S001	L	Komsomolsk	KOM. FIXED	136 44 37.7	50 41 40.6	270.1	18685901
1869	A	12343S001	L	Balkhash	BAL. FIXED	73 36 2.2	45 53 58.6	321.4	18696001
1870	A	12309S001	L	Mendeleevo	MENLAS	37 13 24.4	56 1 39.3	257.3	18706301
1871	A	12357S001	L	Sarapul	SARLAS	56 28 45.2	53 47 15.0	141.8	18716401
1873	A	12337S003	L	Simeiz	SIM. FIXED	33 59 27.4	44 24 47.4	365.3	18734901
1874	A	12309S003	L	Mendeleev2	MDVS	37 13 24.4	56 1 39.3	257.3	18748301
1879	A	12372S001	L	Altay	ALTL	82 10 38.3	51 20 38.0	270.0	18799401
1884	A	12302S002	L	Riga	RIGA FIXED	24 3 31.0	56 56 55.3	31.7	18844401
1885	A	12302S006	L	Riga	RIGA	24 3 31.1	56 56 55.4	31.5	18856701
1886	A	12373S001	L	Arkhyz		41 25 53.3	43 38 59.4	2078.2	18869601
1887	A	25603S001	L	Baikonur	BAIL	63 20 31.9	45 42 16.9	98.3	18879701
1888	A	12350S002	L	Svetloe	QUASAR	29 47 00.0	60 32 00.0	100.0	18889801
1889	A	12351S002	L	Zelenchuks	QUASAR	41 34 00.0	43 47 00.0	1000.0	18899901
1890	A	12338S004	L	Badary	QUASAR	102 14 7.3	51 46 12.1	100.0	18900901
1891	A	12313S007	L	Irkutsk	IRKL FIXED	104 18 59.0	52 13 8.8	505.6	18915301
1893	A	12337S006	L	Katzively	CRIMEA FIX	33 58 12.4	44 23 35.4	68.7	18931801
1953	A	40701S001	L	Santiago D	CUBA FIXED	284 14 16.0	20 0 43.0	18.3	19532001
7035	A	40436M003	L	Otay Mount	TLRS-3	243 9 32.9	34 22 55.2	2200.0	70351301
7040	A	49901S001	L	Wrightwood	OCTL	248 34 45.4	41 56 0.7	1963.9	70409201
7046	A	40438M002	L	Bear Lake	TLRS-4	248 34 45.4	41 56 0.7	1963.9	70461402
7046	A	40438M002	L	Bear Lake	MTLRS-1	248 34 45.4	41 56 0.8	1060.7	70461501
7051	A	40433M001	L	Quincy	MOBLAS-1	239 3 37.6	39 58 24.5	1060.7	70510101
7051	A	40433M001	L	Quincy	MOBLAS-2	239 3 37.6	39 58 24.5	1060.7	70510202
7051	A	40433M001	L	Quincy	MOBLAS-2	239 3 37.6	39 58 24.5	1060.7	70510203
7051	A	40433M001	L	Quincy	MOBLAS-8	239 3 37.6	39 58 24.5	1060.7	70510804
7061	A	41703M001	L	Easter Isl	TLRS-2	250 36 59.1	-27 -8-52.1	116.8	70611201
7061	A	41703M001	L	Easter Isl	TLRS-2	250 36 59.1	-27 -8-52.1	116.8	70611202
7062	A	40436M002	L	Otay Mount	MOBLAS-2	243 9 32.8	32 36 2.6	989.0	70620201
7062	A	40436M002	L	Otay Mount	MOBLAS-3	243 9 32.8	32 36 2.6	989.0	70620302
7062	A	40436M002	L	Otay Mount	MOBLAS-3	243 9 32.8	32 36 2.6	989.0	70620303
7062	A	40436M002	L	Otay Mount	TLRS-1	243 9 32.8	32 36 2.6	989.0	70621104
7062	A	40436M002	L	Otay Mount	TLRS-2	243 9 32.8	32 36 2.6	989.0	70621205
7063	A	40451M112	L	Greenbelt	GSFC FIXED	283 10 19.9	39 1 13.3	19.9	70632101
7064	A	40451M107	L	Greenbelt	MOBLAS-1	283 10 19.1	39 1 14.9	18.7	70640101
7064	A	40451M107	L	Greenbelt	MOBLAS-1	283 10 19.1	39 1 14.9	18.7	70640102
7065	A	40451M108	L	Greenbelt	MOBLAS-2	283 10 19.1	39 1 14.4	18.6	70650201
7065	A	40451M108	L	Greenbelt	MOBLAS-2	283 10 19.1	39 1 14.4	18.6	70650203
7065	A	40451M108	L	Greenbelt	MOBLAS-3	283 10 19.1	39 1 14.4	18.6	70650302
7066	A	---	L	Wallops Is	WAL. FIXED	284 29 25.2	37 51 36.5	5.8	70662701
7067	A	42501M001	L	Bermuda	MOBLAS-1	295 20 37.6	32 21 12.8	-20.5	70670101
7067	A	42501M001	L	Bermuda	MOBLAS-1	295 20 37.6	32 21 12.8	-20.5	70670102
7068	A	43602M002	L	Grand Turk	MOBLAS-2	288 52 5.1	21 27 37.7	-17.6	70680201
7068	A	43602M002	L	Grand Turk	MOBLAS-2	288 52 5.1	21 27 37.7	-17.6	70680202
7069	A	40417M002	L	Patrick	PAFB FIXED	279 23 39.4	28 13 40.6	-23.0	70692201

7070	A	---	L Wallops Is	MOBLAS-2	284	29	23.4	37	51	35.9	5.6	70700201
7080	A	40442M006	L Mcdonald	MLRS	255	59	5.2	30	40	48.9	2004.9	70802401
7080	A	40442M006	L Mcdonald	MLRS	255	59	5.2	30	40	48.9	2004.9	70802402
7080	A	40442M006	L Mcdonald	MLRS	255	59	5.2	30	40	48.9	2004.9	70802403
7080	A	40442M006	L Mcdonald	MLRS	255	59	5.2	30	40	48.9	2004.9	70802404
7080	A	40442M006	L Mcdonald	MLRS	255	59	5.2	30	40	48.9	2004.9	70802405
7080	A	40442M006	L Mcdonald	MLRS	255	59	5.2	30	40	48.9	2004.9	70802406
7080	A	40442M006	L Mcdonald	MLRS	255	59	5.2	30	40	48.9	2004.9	70802407
7080	A	40442M006	L Mcdonald	MLRS	255	59	5.2	30	40	48.9	2004.9	70802408
7080	A	40442M006	L Mcdonald	MLRS	255	59	5.2	30	40	48.9	2004.9	70802409
7080	A	40442M006	L Mcdonald	MLRS	255	59	5.2	30	40	48.9	2004.9	70802410
7080	A	40442M006	L Mcdonald	MLRS	255	59	5.2	30	40	48.9	2004.9	70802411
7080	A	40442M006	L Mcdonald	MLRS	255	59	5.2	30	40	48.9	2004.9	70802412
7080	A	40442M006	L Mcdonald	MLRS	255	59	5.2	30	40	48.9	2004.9	70802413
7080	A	40442M006	L Mcdonald	MLRS	255	59	5.2	30	40	48.9	2004.9	70802414
7080	A	40442M006	L Mcdonald	MLRS	255	59	5.2	30	40	48.9	2004.9	70802415
7080	A	40442M006	L Mcdonald	MLRS	255	59	5.2	30	40	48.9	2004.9	70802416
7080	A	40442M006	L Mcdonald	MLRS	255	59	5.2	30	40	48.9	2004.9	70802417
7080	A	40442M006	L Mcdonald	MLRS	255	59	5.2	30	40	48.9	2004.9	70802418
7080	A	40442M006	L Mcdonald	MLRS	255	59	5.2	30	40	48.9	2004.9	70802419
7081	A	40417M001	L Patrick	MOBLAS-2	279	23	36.5	28	13	39.7	1.8	70810201
7082	A	40438M001	L Bear Lake	MOBLAS-1	248	34	45.6	41	56	0.8	1963.7	70820101
7082	A	40438M001	L Bear Lake	MOBLAS-1	248	34	45.6	41	56	0.8	1963.7	70820102
7082	A	40438M001	L Bear Lake	TLRS-1	248	34	45.6	41	56	0.8	1963.7	70821103
7082	A	40438M001	L Bear Lake	TLRS-1	248	34	45.6	41	56	0.8	1963.7	70821104
7083	A	40451M122	L Greenbelt	MOBLAS-3	283	10	19.1	39	1	14.0	18.6	70830301
7084	A	40439M003	L Owens Vall	MOBLAS-2	241	42	15.2	37	13	55.6	1178.7	70840201
7085	A	40405M001	L Goldstone	MOBLAS-1	243	6	49.0	35	25	27.9	966.7	70850101
7086	A	40442M001	L Mcdonald	MOBLAS-1	255	59	2.6	30	40	37.3	1962.1	70860101
7086	A	40442M001	L Mcdonald	TLRS-1	255	59	2.6	30	40	37.3	1962.1	70861102
7086	A	40442M001	L Mcdonald	MLRS	255	59	2.6	30	40	37.3	1962.1	70862403
7086	A	40442M001	L Mcdonald	MLRS	255	59	2.6	30	40	37.3	1962.1	70862404
7086	A	40442M001	L Mcdonald	MLRS	255	59	2.6	30	40	37.3	1962.1	70862405
7086	A	40442M001	L Mcdonald	MLRS	255	59	2.6	30	40	37.3	1962.1	70862406
7086	A	40442M001	L Mcdonald	MLRS	255	59	2.6	30	40	37.3	1962.1	70862407
7086	A	40442M001	L Mcdonald	MLRS	255	59	2.6	30	40	37.3	1962.1	70862408
7090	A	50107M001	L Yarragadee	MOBLAS-5	115	20	48.2	-29	-2	-47.3	242.0	70900501
7090	A	50107M001	L Yarragadee	MOBLAS-5	115	20	48.2	-29	-2	-47.3	242.0	70900502
7090	A	50107M001	L Yarragadee	MOBLAS-5	115	20	48.2	-29	-2	-47.3	242.0	70900503
7090	A	50107M001	L Yarragadee	MOBLAS-5	115	20	48.2	-29	-2	-47.3	242.0	70900504
7090	A	50107M001	L Yarragadee	MOBLAS-5	115	20	48.2	-29	-2	-47.3	242.0	70900505
7090	A	50107M001	L Yarragadee	MOBLAS-5	115	20	48.2	-29	-2	-47.3	242.0	70900506
7090	A	50107M001	L Yarragadee	MOBLAS-5	115	20	48.2	-29	-2	-47.3	242.0	70900507
7090	A	50107M001	L Yarragadee	MOBLAS-5	115	20	48.2	-29	-2	-47.3	242.0	70900508
7090	A	50107M001	L Yarragadee	MOBLAS-5	115	20	48.2	-29	-2	-47.3	242.0	70900509
7090	A	50107M001	L Yarragadee	MOBLAS-5	115	20	48.2	-29	-2	-47.3	242.0	70900510
7090	A	50107M001	L Yarragadee	MOBLAS-5	115	20	48.2	-29	-2	-47.3	242.0	70900511
7090	A	50107M001	L Yarragadee	MOBLAS-5	115	20	48.2	-29	-2	-47.3	242.0	70900512
7090	A	50107M001	L Yarragadee	MOBLAS-5	115	20	48.2	-29	-2	-47.3	242.0	70900513
7091	A	40440M001	L Westford	MOBLAS-3	288	30	44.4	42	37	21.7	92.8	70910301
7091	A	40440M001	L Westford	MOBLAS-7	288	30	44.4	42	37	21.7	92.8	70910702
7091	A	40440M001	L Westford	TLRS-1	288	30	44.4	42	37	21.7	92.8	70911103
7091	A	40440M001	L Westford	TLRS-1	288	30	44.4	42	37	21.7	92.8	70911104
7092	A	50505M001	L Kwajalein	MOBLAS-8	167	28	32.5	9	23	37.6	31.3	70920801
7096	A	50503M001	L American N-	MOBLAS-6	189	16	30.4	-14	-20	-7.4	45.5	70960601
7097	A	41703M002	L Easter Isl	TLRS-2	250	36	59.1	-27	-8	-52.1	118.2	70971201
7097	A	41703M002	L Easter Isl	TLRS-2	250	36	59.1	-27	-8	-52.1	118.2	70971202
7097	A	41703M002	L Easter Isl	TLRS-2	250	36	59.1	-27	-8	-52.1	118.2	70971203
7097	A	41703M002	L Easter Isl	TLRS-2	250	36	59.1	-27	-8	-52.1	118.2	70971204

7097	A	41703M002	L	Easter Isl	TLRS-2	250	36	59.1	-27	-8-52.1	118.2	70971205
7097	A	41703M002	L	Easter Isl	TLRS-2	250	36	59.1	-27	-8-52.1	118.2	70971206
7097	A	41703M002	L	Easter Isl	TLRS-2	250	36	59.1	-27	-8-52.1	118.2	70971207
7097	A	41703M002	L	Easter Isl	TLRS-2	250	36	59.1	-27	-8-52.1	118.2	70971208
7100	A	40451M106	L	Greenbelt	MOBLAS-3	283	10	47.7	39	1 15.4	10.8	71000301
7100	A	40451M106	L	Greenbelt	MOBLAS-4	283	10	47.7	39	1 15.4	10.8	71000402
7101	A	40451M101	L	Greenbelt	MOBLAS-6	283	10	43.0	39	1 16.2	8.1	71010602
7101	A	40451M101	L	Greenbelt	MOBLAS-8	283	10	43.0	39	1 16.2	8.1	71010801
7102	A	40451M102	L	Greenbelt	MOBLAS-3	283	10	18.9	39	1 14.4	19.1	71020305
7102	A	40451M102	L	Greenbelt	MOBLAS-4	283	10	18.9	39	1 14.4	19.1	71020402
7102	A	40451M102	L	Greenbelt	MOBLAS-4	283	10	18.9	39	1 14.4	19.1	71020403
7102	A	40451M102	L	Greenbelt	MOBLAS-4	283	10	18.9	39	1 14.4	19.1	71020404
7102	A	40451M102	L	Greenbelt	MOBLAS-5	283	10	18.9	39	1 14.4	19.1	71020501
7102	A	40451M102	L	Greenbelt	TLRS-1	283	10	18.9	39	1 14.4	19.1	71021106
7102	A	40451M102	L	Greenbelt	TLRS-1	283	10	18.9	39	1 14.4	19.1	71021107
7103	A	40451M103	L	Greenbelt	MOBLAS-6	283	10	18.9	39	1 14.6	18.1	71030601
7103	A	40451M103	L	Greenbelt	MOBLAS-6	283	10	18.9	39	1 14.6	18.1	71030602
7104	A	40451M104	L	Greenbelt	MOBLAS-7	283	10	36.9	39	1 17.0	11.9	71040701
7105	A	40451M105	L	Greenbelt	TLRS-2	283	10	20.3	39	1 14.1	19.8	71051206
7105	A	40451M105	L	Greenbelt	MOBLAS-2	283	10	20.3	39	1 14.1	19.8	71050207
7105	A	40451M105	L	Greenbelt	MOBLAS-7	283	10	20.3	39	1 14.1	19.8	71050701
7105	A	40451M105	L	Greenbelt	MOBLAS-7	283	10	20.3	39	1 14.1	19.8	71050702
7105	A	40451M105	L	Greenbelt	MOBLAS-7	283	10	20.3	39	1 14.1	19.8	71050703
7105	A	40451M105	L	Greenbelt	MOBLAS-7	283	10	20.3	39	1 14.1	19.8	71050704
7105	A	40451M105	L	Greenbelt	MOBLAS-7	283	10	20.3	39	1 14.1	19.8	71050705
7105	A	40451M105	L	Greenbelt	MOBLAS-7	283	10	20.3	39	1 14.1	19.8	71050708
7105	A	40451M105	L	Greenbelt	MOBLAS-7	283	10	20.3	39	1 14.1	19.8	71050709
7105	A	40451M105	L	Greenbelt	MOBLAS-7	283	10	20.3	39	1 14.1	19.8	71050710
7105	A	40451M105	L	Greenbelt	MOBLAS-7	283	10	20.3	39	1 14.1	19.8	71050711
7105	A	40451M105	L	Greenbelt	MOBLAS-7	283	10	20.3	39	1 14.1	19.8	71050712
7105	A	40451M105	L	Greenbelt	MOBLAS-7	283	10	20.3	39	1 14.1	19.8	71050713
7105	A	40451M105	L	Greenbelt	MOBLAS-7	283	10	20.3	39	1 14.1	19.8	71050714
7105	A	40451M105	L	Greenbelt	MOBLAS-7	283	10	20.3	39	1 14.1	19.8	71050715
7105	A	40451M105	L	Greenbelt	MOBLAS-7	283	10	20.3	39	1 14.1	19.8	71050716
7105	A	40451M105	L	Greenbelt	MOBLAS-7	283	10	20.3	39	1 14.1	19.8	71050717
7105	A	40451M105	L	Greenbelt	MOBLAS-7	283	10	20.3	39	1 14.1	19.8	71050718
7105	A	40451M105	L	Greenbelt	MOBLAS-7	283	10	20.3	39	1 14.1	19.8	71050719
7105	A	40451M105	L	Greenbelt	MOBLAS-7	283	10	20.3	39	1 14.1	19.8	71050720
7105	A	40451M105	L	Greenbelt	MOBLAS-7	283	10	20.3	39	1 14.1	19.8	71050721
7105	A	40451M105	L	Greenbelt	MOBLAS-7	283	10	20.3	39	1 14.1	19.8	71050722
7105	A	40451M105	L	Greenbelt	MOBLAS-7	283	10	20.3	39	1 14.1	19.8	71050723
7105	A	40451M105	L	Greenbelt	MOBLAS-7	283	10	20.3	39	1 14.1	19.8	71050724
7105	A	40451M105	L	Greenbelt	MOBLAS-7	283	10	20.3	39	1 14.1	19.8	71050725
7106	A	40451M113	L	Greenbelt	48-INCH	283	10	17.7	39	1 17.3	20.0	71065601
7109	A	40433M002	L	Quincy	MOBLAS-8	239	3	19.0	39	58 30.0	1107.0	71090801
7109	A	40433M002	L	Quincy	MOBLAS-8	239	3	19.0	39	58 30.0	1107.0	71090802
7109	A	40433M002	L	Quincy	MOBLAS-8	239	3	19.0	39	58 30.0	1107.0	71090803
7109	A	40433M002	L	Quincy	MOBLAS-8	239	3	19.0	39	58 30.0	1107.0	71090804
7109	A	40433M002	L	Quincy	MOBLAS-8	239	3	19.0	39	58 30.0	1107.0	71090805
7109	A	40433M002	L	Quincy	MOBLAS-8	239	3	19.0	39	58 30.0	1107.0	71090806
7109	A	40433M002	L	Quincy	MOBLAS-8	239	3	19.0	39	58 30.0	1107.0	71090807
7109	A	40433M002	L	Quincy	MOBLAS-8	239	3	19.0	39	58 30.0	1107.0	71090808
7109	A	40433M002	L	Quincy	MOBLAS-8	239	3	19.0	39	58 30.0	1107.0	71090809
7109	A	40433M002	L	Quincy	MOBLAS-8	239	3	19.0	39	58 30.0	1107.0	71090810
7109	A	40433M002	L	Quincy	MOBLAS-8	239	3	19.0	39	58 30.0	1107.0	71090812
7109	A	40433M002	L	Quincy	MOBLAS-8	239	3	19.0	39	58 30.0	1107.0	71090813
7109	A	40433M002	L	Quincy	MOBLAS-8	239	3	19.0	39	58 30.0	1107.0	71090814
7109	A	40433M002	L	Quincy	MOBLAS-8	239	3	19.0	39	58 30.0	1107.0	71090815
7109	A	40433M002	L	Quincy	TLRS-4	239	3	19.0	39	58 30.0	1107.0	71091411

7110	A	40497M001	L Monument	P MOBLAS-3	243	34	38.3	32	53	30.2	1839.7	71100301
7110	A	40497M001	L Monument	P MOBLAS-3	243	34	38.3	32	53	30.2	1839.7	71100301
7110	A	40497M001	L Monument	P MOBLAS-4	243	34	38.3	32	53	30.2	1839.7	71100402
7110	A	40497M001	L Monument	P MOBLAS-4	243	34	38.3	32	53	30.2	1839.7	71100403
7110	A	40497M001	L Monument	P MOBLAS-4	243	34	38.3	32	53	30.2	1839.7	71100404
7110	A	40497M001	L Monument	P MOBLAS-4	243	34	38.3	32	53	30.2	1839.7	71100405
7110	A	40497M001	L Monument	P MOBLAS-4	243	34	38.3	32	53	30.2	1839.7	71100406
7110	A	40497M001	L Monument	P MOBLAS-4	243	34	38.3	32	53	30.2	1839.7	71100407
7110	A	40497M001	L Monument	P MOBLAS-4	243	34	38.3	32	53	30.2	1839.7	71100408
7110	A	40497M001	L Monument	P MOBLAS-4	243	34	38.3	32	53	30.2	1839.7	71100409
7110	A	40497M001	L Monument	P MOBLAS-4	243	34	38.3	32	53	30.2	1839.7	71100410
7110	A	40497M001	L Monument	P MOBLAS-4	243	34	38.3	32	53	30.2	1839.7	71100411
7110	A	40497M001	L Monument	P MOBLAS-4	243	34	38.3	32	53	30.2	1839.7	71100412
7111	A	40420M001	L Vandenberg	TLRS-1	239	29	58.0	34	33	58.4	601.6	71111101
7112	A	40496M001	L Plattevill	MOBLAS-2	255	16	26.4	40	10	58.0	1502.2	71120201
7112	A	40496M001	L Plattevill	TLRS-1	255	16	26.4	40	10	58.0	1502.2	71121105
7112	A	40496M001	L Plattevill	TLRS-4	255	16	26.4	40	10	58.0	1502.2	71121403
7112	A	40496M001	L Plattevill	MTLRS-1	255	16	26.4	40	10	58.0	1502.2	71121502
7112	A	40496M001	L Plattevill	MTLRS-1	255	16	26.4	40	10	58.0	1502.2	71121504
7114	A	40439M001	L Owens Vall	MOBLAS-2	241	42	22.3	37	13	57.2	1178.6	71140201
7114	A	40439M001	L Owens Vall	TLRS-1	241	42	22.3	37	13	57.2	1178.6	71141102
7114	A	40439M001	L Owens Vall	TLRS-1	241	42	22.3	37	13	57.2	1178.6	71141103
7115	A	40405M002	L Goldstone	MOBLAS-3	243	12	29.1	35	14	53.9	1037.6	71150301
7119	A	40445M004	L Haleakala	TLRS-4	203	44	35.2	20	42	27.4	3068.5	71191401
7119	A	40445M004	L Haleakala	TLRS-4	203	44	35.2	20	42	27.4	3068.5	71191402
7120	A	40445M002	L Haleakala	MOBLAS-1	203	44	38.2	20	42	27.4	3069.6	71200101
7121	A	92202M002	L Huahine	MOBLAS-1	208	57	31.9	-16-44	-0.6		44.3	71210101
7122	A	40504M001	L Mazatlan	MOBLAS-6	253	32	27.3	23	20	34.2	31.6	71220601
7122	A	40504M001	L Mazatlan	MOBLAS-6	253	32	27.3	23	20	34.2	31.6	71220602
7122	A	40504M001	L Mazatlan	MOBLAS-6	253	32	27.3	23	20	34.2	31.6	71220603
7122	A	40504M001	L Mazatlan	MOBLAS-6	253	32	27.3	23	20	34.2	31.6	71220604
7122	A	40504M001	L Mazatlan	MOBLAS-6	253	32	27.3	23	20	34.2	31.6	71220605
7122	A	40504M001	L Mazatlan	MOBLAS-6	253	32	27.3	23	20	34.2	31.6	71220606
7122	A	40504M001	L Mazatlan	MOBLAS-6	253	32	27.3	23	20	34.2	31.6	71220607
7122	A	40504M001	L Mazatlan	MOBLAS-6	253	32	27.3	23	20	34.2	31.6	71220608
7122	A	40504M001	L Mazatlan	MOBLAS-6	253	32	27.3	23	20	34.2	31.6	71220609
7122	A	40504M001	L Mazatlan	TLRS-4	253	32	27.3	23	20	34.2	31.6	71221410
7123	A	92202M004	L Huahine	TLRS-2	208	57	31.9	-16-44	-0.6		46.1	71231201
7123	A	92202M004	L Huahine	TLRS-2	208	57	31.9	-16-44	-0.6		46.1	71231202
7123	A	92202M004	L Huahine	TLRS-2	208	57	31.9	-16-44	-0.6		46.1	71231203
7123	A	92202M004	L Huahine	TLRS-2	208	57	31.9	-16-44	-0.6		46.1	71231204
7123	A	92202M004	L Huahine	TLRS-2	208	57	31.9	-16-44	-0.6		46.1	71231205
7123	A	92202M004	L Huahine	TLRS-2	208	57	31.9	-16-44	-0.6		46.1	71231206
7123	A	92202M004	L Huahine	TLRS-2	208	57	31.9	-16-44	-0.6		46.1	71231207
7124	A	92201M007	L Papeete	MOBLAS-8	210	23	37.6	-17-34-36.5			95.1	71240801
7124	A	92201M007	L Papeete	MOBLAS-8	210	23	37.6	-17-34-36.5			95.1	71240802
7125	A	40451M114	L Greenbelt	TLRS-3	283	10	21.2	39	1	12.9	19.0	71251302
7125	A	40451M114	L Greenbelt	MTLRS-1	283	10	21.2	39	1	12.9	19.0	71251501
7125	A	40451M114	L Greenbelt	NGSLR01	283	10	21.2	39	1	12.9	19.0	71259301
7126	A	---	L Greenbelt	MLRO	283	10	21.1	39	1	12.9	19.2	71267701
7127	A	---	L Greenbelt	GUTS	283	10	21.1	39	1	12.9	19.2	71278901
7130	A	40451M116	L Greenbelt	TLRS-2	283	10	21.1	39	1	15.2	19.6	71301201
7130	A	40451M116	L Greenbelt	TLRS-4	283	10	21.1	39	1	15.2	19.6	71301402
7130	A	40451M116	L Greenbelt	TLRS-4	283	10	21.1	39	1	15.2	19.6	71301403
7206	A	40442S002	L Mcdonald	2.7 METER	255	58	40.8	30	40	18.3	2059.0	72062601
7210	A	40445M001	L Haleakala	HALEAKALA	203	44	38.7	20	42	25.9	3068.2	72102301
7210	A	40445M001	L Haleakala	HALEAKALA	203	44	38.7	20	42	25.9	3068.2	72102302
7210	A	40445M001	L Haleakala	HALEAKALA	203	44	38.7	20	42	25.9	3068.2	72102303
7210	A	40445M001	L Haleakala	HALEAKALA	203	44	38.7	20	42	25.9	3068.2	72102304

7210	A	40445M001	L Haleakala	HALEAKALA	203	44	38.7	20	42	25.9	3068.2	72102305
7210	A	40445M001	L Haleakala	HALEAKALA	203	44	38.7	20	42	25.9	3068.2	72102306
7210	A	40445M001	L Haleakala	HALEAKALA	203	44	38.7	20	42	25.9	3068.2	72102307
7210	A	40445M001	L Haleakala	HALEAKALA	203	44	38.7	20	42	25.9	3068.2	72102308
7210	A	40445M001	L Haleakala	HALEAKALA	203	44	38.7	20	42	25.9	3068.2	72102309
7210	A	40445M001	L Haleakala	HALEAKALA	203	44	38.7	20	42	25.9	3068.2	72102310
7210	A	40445M001	L Haleakala	HALEAKALA	203	44	38.7	20	42	25.9	3068.2	72102311
7210	A	40445M001	L Haleakala	HALEAKALA	203	44	38.7	20	42	25.9	3068.2	72102312
7210	A	40445M001	L Haleakala	HALEAKALA	203	44	38.7	20	42	25.9	3068.2	72102313
7220	A	40497M002	L Monument	P TLRs-1	243	34	37.7	32	53	30.2	1840.9	72201101
7220	A	40497M002	L Monument	P TLRs-1	243	34	37.7	32	53	30.2	1840.9	72201102
7220	A	40497M002	L Monument	P TLRs-1	243	34	37.7	32	53	30.2	1840.9	72201103
7220	A	40497M002	L Monument	P TLRs-1	243	34	37.7	32	53	30.2	1840.9	72201104
7220	A	40497M002	L Monument	P TLRs-1	243	34	37.7	32	53	30.2	1840.9	72201105
7231	A	21602S004	L Wuhan	WUHAN	114	29	22.8	30	30	56.4	87.1	72312901
7236	A	21602S003	L Wuhan	WUH. FIXED	114	20	46.5	30	32	30.4	39.4	72362901
7237	A	21611S001	L Changchun	CHALAS	125	26	36.4	43	47	25.8	274.9	72371901
7249	A	21601S004	L Beijing	BEIJ FIXED	115	53	31.3	39	36	24.9	82.3	72496101
7249	A	21601S004	L Beijing	BEIJ FIXED	115	53	31.3	39	36	24.9	82.3	72496102
7261	A	40491M003	L Flagstaff	TLRS-1	248	21	55.7	35	12	52.3	2144.9	72611101
7265	A	40405M006	L Mojave	TLRS-1	243	6	31.3	35	19	52.3	896.7	72651101
7274	A	40497M003	L Monument	P TLRs-1	243	34	37.8	32	53	30.3	1839.4	72741101
7288	A	40405M013	L Mojave	TLRS-3	243	6	30.5	35	19	52.4	896.8	72881301
7288	A	40405M013	L Mojave	TLRS-4	243	6	30.5	35	19	52.4	896.8	72881402
7288	A	40405M013	L Mojave	TLRS-4	243	6	30.5	35	19	52.4	896.8	72881403
7288	A	40405M013	L Mojave	TLRS-4	243	6	30.5	35	19	52.4	896.8	72881404
7295	A	40499M002	L Richmond	TLRS-1	279	36	57.1	25	36	48.0	-22.0	72951102
7295	A	40499M002	L Richmond	TLRS-4	279	36	57.1	25	36	48.0	-22.0	72951403
7295	A	40499M002	L Richmond	MTLRS-1	279	36	57.1	25	36	48.0	-22.0	72951501
7300	A	21733S001	L Minami Tor	HTLRS-1	153	59	3.1	24	17	40.8	35.9	73001701
7301	A	21709S001	L Okinawa (J	HTLRS-1	127	42	56.9	26	7	54.7	126.5	73011701
7302	A	21735S001	L Tsushima	HTLRS-1	129	17	37.0	34	11	47.4	33.9	73021701
7303	A	---	L Oki Gunto	HTLRS-1	133	19	9.7	36	10	48.3	122.5	73031701
7304	A	---	L Minami Dai	HTLRS-1	131	13	47.4	25	49	45.1	50.8	73041701
7305	A	---	L Iwo Jima	HTLRS-1	141	18	20.2	24	46	18.3	135.7	73051701
7307	A	21736S001	L Isigaki Sh	HTLRS-1	124	12	51.4	24	22	9.1	100.8	73071701
7307	B	21736S003	L Isigaki Sh	HTLRS-1	124	12	51.4	24	22	9.1	100.8	73071702
7307	C	21736S004	L Isigaki Sh	HTLRS-1	124	12	51.4	24	22	9.1	100.8	73071703
7307	D	21736S005	L Isigaki Sh	HTLRS-1	124	12	51.4	24	22	9.1	100.8	73071704
7308	A	21704S002	L Koganei	CRLAS	139	29	20.8	35	42	36.3	123.1	73085001
7309	A	---	L Hachijo Ji	HTLRS-1	139	49	22.1	33	4	22.7	264.1	73091701
7313	A	---	L Hiroo	HTLRS-1	143	19	42.4	42	19	4.1	46.1	73131701
7320	A	---	L Wakkanai	HTLRS-1	141	43	47.8	45	23	9.5	91.6	73201701
7321	A	---	L Oga	HTLRS-1	139	42	6.2	40	0	16.7	69.4	73211701
7322	A	---	L Tyosi	HTLRS-1	140	51	12.4	35	42	17.8	90.1	73221701
7323	A	---	L Makura Sak	HTLRS-1	130	17	35.4	31	16	19.2	62.7	73231701
7328	A	21704M001	L Koganei	KOGLAS	139	29	16.6	35	42	36.6	115.1	73287101
7335	A	21701M002	L Kashima	KASH. FIXD	140	39	27.3	35	57	22.2	66.4	73357201
7337	A	21739M001	L Miura	MIULAS	139	39	1.4	35	12	24.2	99.1	73377301
7339	A	21740M001	L Tateyama	TATLAS	139	50	53.3	34	56	12.9	120.3	73397401
7341	A	---	L Bisei	HTLRS-1	133	34	15.1	34	40	47.0	549.4	73411701
7341	A	---	L Bisei	HTLRS-1	133	34	15.1	34	40	47.0	549.4	73411702
7343	A	21601M002	L Beijing	TROS	115	53	31.3	39	36	24.9	82.4	73438401
7355	A	21612M002	L Urumqi	TROS	87	42	19.3	43	48	49.0	846.1	73558401
7355	A	21612M002	L Urumqi	TROS	87	42	19.3	43	48	49.0	846.1	73558402
7356	A	21613M003	L Lhasa	TROS	91	2	15.5	29	38	5.4	3601.5	73568401
7357	A	21601S005	L Beijing	BEIJING-A	115	53	33.6	39	36	27.8	72.7	73578801
7358	A	21749S001	L Tanegashim	GUTS	131	0	55.5	30	33	30.4	140.7	73588901
7359	A	23902S002	L Daedeok	DAEK	127	22	28.9	36	23	56.5	116.6	73592601

7370	A	50186M001	L BurnietS	FTLRS	145	52	53.0	-41	-3	-44.0	129.6	73706901
7394	A	23907S002	L Sejong	SEJL	127	18	10.5	36	31	15.6	176.4	73942601
7395	A	23910S001	L Geochang	GEOL	127	55	12.4	35	35	24.7	934.1	73956501
7396	A	21602S008	L Wuhan	JFNL FIXED	114	29	24.7	30	30	59.5	77.4	73964701
7400	A	41705M001	L Santiago	TLRS-1	289	19	52.9	-33	-8	-58.6	723.4	74001101
7401	A	41706M001	L Cerro Tolo	TLRS-1	289	11	59.8	-30	-10	-20.8	2155.9	74011101
7401	A	41706M001	L Cerro Tolo	TLRS-3	289	11	59.8	-30	-10	-20.8	2155.9	74011302
7401	A	41706M001	L Cerro Tolo	TLRS-3	289	11	59.8	-30	-10	-20.8	2155.9	74011303
7403	A	42202M003	L Arequipa	TLRS-3	288	30	25.3	-16	-27	-56.5	2489.5	74031301
7403	A	42202M003	L Arequipa	TLRS-3	288	30	25.3	-16	-27	-56.5	2489.5	74031302
7403	A	42202M003	L Arequipa	TLRS-3	288	30	25.3	-16	-27	-56.5	2489.5	74031303
7403	A	42202M003	L Arequipa	TLRS-3	288	30	25.3	-16	-27	-56.5	2489.5	74031304
7403	A	42202M003	L Arequipa	TLRS-3	288	30	25.3	-16	-27	-56.5	2489.5	74031305
7403	A	42202M003	L Arequipa	TLRS-3	288	30	25.3	-16	-27	-56.5	2489.5	74031306
7404	A	41705M004	L Santiago	TLRS-2	289	19	53.5	-33	-8	-58.6	724.5	74041201
7404	A	41705M004	L Santiago	TLRS-2	289	19	53.5	-33	-8	-58.6	724.5	74041202
7405	A	41719M001	L Concepcion	TIGO	286	58	28.8	-36	-50	-34.8	170.0	74057901
7405	A	41719M001	L Concepcion	TIGO	286	58	28.8	-36	-50	-34.8	170.0	74057902
7405	A	41719M001	L Concepcion	TIGO	286	58	28.8	-36	-50	-34.8	170.0	74057903
7405	A	41719M001	L Concepcion	TIGO	286	58	28.8	-36	-50	-34.8	170.0	74057904
7406	A	41508S003	L San Juan	BEIJING-A	291	22	36.6	-31	-30	-31.0	727.2	74068801
7407	A	48081S001	L Brazilia	BRAL	312	08	04.9	-15	46	23.0	1028.8	74072701
7410	A	40104M003	L Algonquin	TLRS-4	281	55	46.9	45	57	20.1	195.9	74101401
7411	A	40132M001	L La Grande	TLRS-4	281	25	43.4	53	41	53.6	20.2	74111401
7411	A	40132M001	L La Grande	TLRS-4	281	25	43.4	53	41	53.6	20.2	74111402
7501	A	30302M003	L Hartebeest	MTLRS-1	27	41	10.2	-25	-53	-22.9	1407.5	75011501
7501	A	30302M003	L Hartebeest	MOBLAS-6	27	41	10.2	-25	-53	-22.9	1407.5	75010602
7502	A	30314M001	L Sutherland	MTLRS-1	20	48	8.9	-32	-22	-45.0	1730.0	75021501
7503	A	30301S010	L HartRTL	HRTL	27	41	10.0	-25	-53	-21.1	1414.0	75036401
7505	A	11101M001	L Sofia	MTLRS-1	23	23	41.0	42	33	20.4	1113.9	75051501
7510	A	12612M001	L Askites	MTLRS-1	25	33	58.4	40	55	40.8	183.2	75101501
7510	A	12612M001	L Askites	MTLRS-1	25	33	58.4	40	55	40.8	183.2	75101504
7510	A	12612M001	L Askites	MTLRS-1	25	33	58.4	40	55	40.8	183.2	75101505
7510	A	12612M001	L Askites	MTLRS-1	25	33	58.4	40	55	40.8	183.2	75101506
7510	A	12612M001	L Askites	MTLRS-2	25	33	58.4	40	55	40.8	183.2	75101602
7510	A	12612M001	L Askites	MTLRS-2	25	33	58.4	40	55	40.8	183.2	75101603
7512	A	12615M001	L Katavia	MTLRS-1	27	46	50.8	35	57	5.4	74.6	75121501
7512	A	12615M001	L Katavia	MTLRS-1	27	46	50.8	35	57	5.4	74.6	75121503
7512	A	12615M001	L Katavia	MTLRS-1	27	46	50.8	35	57	5.4	74.6	75121504
7512	A	12615M001	L Katavia	MTLRS-2	27	46	50.8	35	57	5.4	74.6	75121602
7515	A	12602M002	L Dionysos	MTLRS-1	23	55	56.8	38	4	42.9	511.2	75151501
7515	A	12602M002	L Dionysos	MTLRS-1	23	55	56.8	38	4	42.9	511.2	75151502
7515	A	12602M002	L Dionysos	MTLRS-1	23	55	56.8	38	4	42.9	511.2	75151503
7515	A	12602M002	L Dionysos	MTLRS-2	23	55	56.8	38	4	42.9	511.2	75151604
7517	A	12613M001	L Roumelli	TLRS-1	24	41	39.0	35	24	15.2	103.3	75171102
7517	A	12613M001	L Roumelli	TLRS-1	24	41	39.0	35	24	15.2	103.3	75171104
7517	A	12613M001	L Roumelli	TLRS-1	24	41	39.0	35	24	15.2	103.3	75171105
7517	A	12613M001	L Roumelli	MTLRS-1	24	41	39.0	35	24	15.2	103.3	75171503
7517	A	12613M001	L Roumelli	MTLRS-2	24	41	39.0	35	24	15.2	103.3	75171601
7520	A	12614M001	L Karitsa	MTLRS-1	20	39	53.4	39	44	3.3	599.3	75201501
7520	A	12614M001	L Karitsa	MTLRS-1	20	39	53.4	39	44	3.3	599.3	75201502
7520	A	12614M001	L Karitsa	MTLRS-1	20	39	53.4	39	44	3.3	599.3	75201503
7525	A	12616M001	L Xrisokelar	TLRS-1	21	52	39.4	36	47	29.2	476.8	75251104
7525	A	12616M001	L Xrisokelar	TLRS-1	21	52	39.4	36	47	29.2	476.8	75251105
7525	A	12616M001	L Xrisokelar	TLRS-1	21	52	39.4	36	47	29.2	476.8	75251106
7525	A	12616M001	L Xrisokelar	TLRS-1	21	52	39.4	36	47	29.2	476.8	75251107
7525	A	12616M001	L Xrisokelar	MTLRS-2	21	52	39.4	36	47	29.2	476.8	75251601
7525	A	12616M001	L Xrisokelar	MTLRS-2	21	52	39.4	36	47	29.2	476.8	75251602
7525	A	12616M001	L Xrisokelar	MTLRS-2	21	52	39.4	36	47	29.2	476.8	75251603

7530	A	20702M001	L Bar Giyyor	MOBLAS-2	35	5	18.7	31	43	20.6	773.7	75300201
7530	A	20702M001	L Bar Giyyor	MOBLAS-2	35	5	18.7	31	43	20.6	773.7	75300202
7530	A	20702M001	L Bar Giyyor	MOBLAS-2	35	5	18.7	31	43	20.6	773.7	75300203
7530	A	20702M001	L Bar Giyyor	MOBLAS-2	35	5	18.7	31	43	20.6	773.7	75300204
7540	A	12734M005	L Matera	MLRS-1	16	42	16.1	40	38	54.7	529.3	75401501
7541	A	12734M004	L Matera	TLRS-1	16	42	15.4	40	38	54.7	529.0	75411102
7541	A	12734M004	L Matera	TLRS-1	16	42	15.4	40	38	54.7	529.0	75411103
7541	A	12734M004	L Matera	MLRS-2	16	42	15.4	40	38	54.7	529.0	75411601
7542	A	12749M001	L Monte Vend	MLRS-2	11	41	34.9	45	19	18.6	524.0	75421601
7543	A	12717M001	L Noto	TLRS-1	14	59	18.2	36	52	35.7	126.4	75431102
7543	A	12717M001	L Noto	MLRS-2	14	59	18.2	36	52	35.7	126.4	75431601
7544	A	12706M001	L Lampedusa	MLRS-1	12	34	2.8	35	31	3.9	112.6	75441502
7544	A	12706M001	L Lampedusa	MLRS-1	12	34	2.8	35	31	3.9	112.6	75441503
7544	A	12706M001	L Lampedusa	MLRS-1	12	34	2.8	35	31	3.9	112.6	75441504
7544	A	12706M001	L Lampedusa	MLRS-2	12	34	2.8	35	31	3.9	112.6	75441601
7545	A	12725M002	L Punta Sa M	TLRS-1	8	58	22.7	39	8	7.7	230.7	75451103
7545	A	12725M002	L Punta Sa M	TLRS-1	8	58	22.7	39	8	7.7	230.7	75451104
7545	A	12725M002	L Punta Sa M	MLRS-2	8	58	22.7	39	8	7.7	230.7	75451601
7545	A	12725M002	L Punta Sa M	MLRS-2	8	58	22.7	39	8	7.7	230.7	75451602
7546	A	12711M002	L Medicina	TLRS-1	11	38	47.3	44	31	12.1	50.1	75461102
7546	A	12711M002	L Medicina	MLRS-2	11	38	47.3	44	31	12.1	50.1	75461601
7548	A	12725S013	L Cagliari	CAGLAS	8	58	19.3	39	8	11.9	252.8	75486201
7550	A	12718M002	L Basovizza	MLRS-2	13	52	32.0	45	38	34.6	447.9	75501601
7550	A	12718M002	L Basovizza	MLRS-2	13	52	32.0	45	38	34.6	447.9	75501602
7560	A	12302M001	L Riga	MLRS-1	24	3	30.9	56	56	54.4	30.0	75601501
7561	A	12337M001	L Simeiz	MLRS-1	33	59	29.7	44	24	55.2	387.1	75611501
7575	A	20801M001	L Diyarbakir	MLRS-1	40	11	41.6	37	55	12.8	725.5	75751501
7575	A	20801M001	L Diyarbakir	MLRS-1	40	11	41.6	37	55	12.8	725.5	75751502
7580	A	20803M001	L Melengicli	TLRS-1	33	11	28.5	37	22	39.5	1358.3	75801101
7580	A	20803M001	L Melengicli	TLRS-1	33	11	28.5	37	22	39.5	1358.3	75801102
7580	A	20803M001	L Melengicli	TLRS-1	33	11	28.5	37	22	39.5	1358.3	75801103
7580	A	20803M001	L Melengicli	TLRS-1	33	11	28.5	37	22	39.5	1358.3	75801104
7585	A	20802M001	L Yozgat	MLRS-1	34	48	46.8	39	48	1.9	1677.6	75851501
7585	A	20802M001	L Yozgat	MLRS-1	34	48	46.8	39	48	1.9	1677.6	75851502
7585	A	20802M001	L Yozgat	MLRS-1	34	48	46.8	39	48	1.9	1677.6	75851503
7587	A	20804M001	L Yigilca	TLRS-1	31	26	19.6	40	56	13.1	823.3	75871101
7587	A	20804M001	L Yigilca	TLRS-1	31	26	19.6	40	56	13.1	823.3	75871102
7587	A	20804M001	L Yigilca	TLRS-1	31	26	19.6	40	56	13.1	823.3	75871103
7587	A	20804M001	L Yigilca	MLRS-1	31	26	19.6	40	56	13.1	823.3	75871504
7589	A	20805M001	L Ankara	TLRS-1	32	45	30.8	39	53	15.0	974.5	75891101
7590	A	14005M002	L Monte Gene	MLRS-2	9	01	04.3	45	55	39.5	1663.4	75901601
7594	A	14201M200	L Wettzell	TIGO	12	52	38.0	49	8	39.4	659.3	75947901
7596	A	14201M004	L Wettzell	MLRS-1	12	52	43.2	49	8	38.9	659.4	75961502
7596	A	14201M004	L Wettzell	MLRS-1	12	52	43.2	49	8	38.9	659.4	75961503
7596	A	14201M004	L Wettzell	MLRS-2	12	52	43.2	49	8	38.9	659.4	75961601
7597	A	14201M005	L Wettzell	MLRS-1	12	52	42.5	49	8	38.3	660.9	75971501
7597	A	14201M005	L Wettzell	MLRS-1	12	52	42.5	49	8	38.3	660.9	75971502
7597	A	14201M005	L Wettzell	MLRS-1	12	52	42.5	49	8	38.3	660.9	75971503
7597	A	14201M005	L Wettzell	MLRS-1	12	52	42.5	49	8	38.3	660.9	75971504
7597	A	14201M005	L Wettzell	MLRS-1	12	52	42.5	49	8	38.3	660.9	75971505
7597	A	14201M005	L Wettzell	MLRS-1	12	52	42.5	49	8	38.3	660.9	75971506
7597	A	14201M005	L Wettzell	MLRS-1	12	52	42.5	49	8	38.3	660.9	75971507
7597	A	14201M005	L Wettzell	MLRS-1	12	52	42.5	49	8	38.3	660.9	75971508
7597	A	14201M005	L Wettzell	MLRS-1	12	52	42.5	49	8	38.3	660.9	75971509
7599	A	14201M007	L Wettzell	MLRS-1	12	52	39.9	49	8	42.5	657.8	75991501
7602	A	10302M002	L Tromso	MLRS-2	18	56	21.9	69	39	46.7	133.7	76021601
7604	A	10004M002	L Brest	FTLRS	355	29	46.2	48	24	28.2	104.8	76046901
7801	A	30101S001	L Helwan	EGY1 FIXED	31	20	33.7	29	51	32.4	132.5	78014601
7805	A	10503S001	L Metsahovi	FIN. FIXED	24	23	40.3	60	13	2.3	79.0	78053301

7806	A	10503S014	L Metsahovi	METLAS	24	23	40.3	60	13	1.7	74.7	78067601
7810	A	14001S001	L Zimmerwald	SWI. FIXED	7	27	54.7	46	52	38.0	951.7	78104801
7810	B	14001S007	L Zimmerwald	SWI2 FIXED	7	27	54.7	46	52	38.0	951.7	78106801
7811	A	12205S001	L Borowiec	POL. FIXED	17	4	28.5	52	16	37.1	123.3	78113801
7811	A	12205S001	L Borowiec	POL. FIXED	17	4	28.5	52	16	37.1	123.3	78113802
7819	A	21609S004	L Kunming2	KUNMING2	102	47	50.7	25	1	47.8	1993.6	78198201
7820	A	21609S002	L Kunming	KUNMING	102	47	50.7	25	1	47.8	1993.6	78208201
7821	A	21605S010	L Shanghai	SO FIXED	121	11	11.8	31	5	45.9	100.9	78212801
7822	A	92201M017	L Punaania	FTLRS	210	23	37.6	-17	-34	-36.5	95.1	78226901
7823	A	13402M005	L San Fernan	FTLRS	353	47	40.8	36	27	54.9	98.6	78236901
7824	A	13402S004	L San Fernan	SPN. FIXED	353	47	40.8	36	27	54.9	98.6	78244501
7824	B	13402S007	L San Fernan	SPN. FIXED	353	47	40.8	36	27	54.9	98.6	78244502
7825	A	50119S003	L Mount Stro	STR2 FIXED	149	0	35.5	-35	-18	-58.1	805.6	78259001
7826	A	50119S007	L Mount Stro	STR3 FIXED	149	0	35.5	-35	-18	-58.1	805.6	78269101
7827	A	14201S045	L Wettzell	SOSW	12	52	41.2	49	8	41.8	663.2	78272201
7829	A	10002S017	L Grasse	FTLRS	6	55	14.9	43	45	16.8	1319.4	78296903
7830	A	12617M002	L Chania	FTLRS	24	4	13.9	35	31	58.9	160.9	78306901
7831	A	30101S001	L Helwan	EGY. FIXED	31	20	33.7	29	51	32.4	132.5	78314601
7832	A	20101S001	L Riyadh	SALRO	46	24	1.3	24	54	37.9	760.8	78325501
7833	A	13504S001	L Kootwijk	NL. FIXED	5	48	35.3	52	10	42.2	94.5	78333201
7834	A	14201S002	L Wettzell	GER. FIXED	12	52	41.1	49	8	41.7	661.8	78343001
7835	A	10002S001	L Grasse	FRA. FIXED	6	55	16.0	43	45	16.8	1323.5	78353101
7835	A	10002S001	L Grasse	FRA. FIXED	6	55	16.0	43	45	16.8	1323.5	78353102
7836	A	14106S009	L Potsdam	GFZLAS	13	3	53.6	52	22	48.0	134.2	78365801
7837	A	21605S001	L Shanghai	SO FIXED	121	11	30.2	31	5	51.1	28.5	78372804
7837	A	21605S001	L Shanghai	SO FIXED	121	11	30.2	31	5	51.1	28.5	78372805
7837	A	21605S001	L Shanghai	SO FIXED	121	11	30.2	31	5	51.1	28.5	78373701
7837	A	21605S001	L Shanghai	SO FIXED	121	11	30.2	31	5	51.1	28.5	78373702
7837	A	21605S001	L Shanghai	SO FIXED	121	11	30.2	31	5	51.1	28.5	78373703
7838	A	21726S001	L Simosato	SHO FIXED	135	56	13.3	33	34	39.6	102.3	78383601
7838	A	21726S001	L Simosato	SHO FIXED	135	56	13.3	33	34	39.6	102.3	78383602
7838	A	21726S001	L Simosato	SHO FIXED	135	56	13.3	33	34	39.6	102.3	78383603
7839	A	11001S002	L Graz	GRAZ FIXED	15	29	36.0	47	4	1.6	540.1	78393401
7839	A	11001S002	L Graz	GRAZ FIXED	15	29	36.0	47	4	1.6	540.1	78393402
7840	A	13212S001	L Herstmonce	RG0 FIXED	0	20	10.0	50	52	2.5	76.1	78403501
7841	A	14106S011	L Potsdam	GFZLAS3	13	3	41.1	52	22	58.8	127.9	78418701
7843	A	50103S007	L Orroral	NLRS	148	56	21.5	-35	-38	-10.5	1350.6	78432501
7843	A	50103S007	L Orroral	NLRS	148	56	21.5	-35	-38	-10.5	1350.6	78432502
7844	A	21732S002	L Chichi Jim	HTLRS-1	142	11	52.4	27	5	54.0	53.0	78441701
7844	B	21732S002	L Chichi Jim	HTLRS-1	142	11	52.4	27	5	54.0	53.0	78441702
7845	A	10002S002	L Grasse	GRASLLR	6	55	17.6	43	45	16.6	1324.0	78457801
7846	A	10002M004	L Grasse	FTLRS	6	55	14.9	43	45	16.8	1319.4	78466901
7847	A	50107S009	L Yarragadee	PSLR	115	20	48.5	-29	-2	-46.6	243.1	78477001
7848	A	10077M002	L Ajaccio	FTLRS	8	45	45.6	41	55	38.5	97.5	78486901
7848	A	10077M002	L Ajaccio	FTLRS	8	45	45.6	41	55	38.5	97.5	78486902
7848	A	10077M002	L Ajaccio	FTLRS	8	45	45.6	41	55	38.5	97.5	78486903
7848	A	10077M002	L Ajaccio	FTLRS	8	45	45.6	41	55	38.5	97.5	78486904
7849	A	50119S001	L Mount Stro	STR. FIXED	149	0	35.5	-35	-18	-58.1	804.7	78498001
7850	A	40442M008	L Mcdonald	TLRS-4	255	59	5.6	30	40	49.7	2004.9	78501401
7853	A	40439M004	L Owens Vall	MTLRS-1	241	42	22.3	37	13	57.3	1178.7	78531501
7853	A	40439M004	L Owens Vall	MTLRS-1	241	42	22.3	37	13	57.3	1178.7	78531502
7865	A	49654M001	L NRL OTF	NRL OTF	282	37	44.0	38	29	57.1	24.6	78658601
7882	A	40505M001	L Cabo San L	TLRS-1	250	8	8.0	22	55	3.1	112.3	78821102
7882	A	40505M001	L Cabo San L	TLRS-2	250	8	8.0	22	55	3.1	112.3	78821201
7882	A	40505M001	L Cabo San L	TLRS-4	250	8	8.0	22	55	3.1	112.3	78821403
7882	A	40505M001	L Cabo San L	TLRS-4	250	8	8.0	22	55	3.1	112.3	78821404
7883	A	40506M001	L Ensenada	TLRS-4	243	50	21.3	31	15	23.9	165.6	78831401
7883	A	40506M001	L Ensenada	TLRS-4	243	50	21.3	31	15	23.9	165.6	78831402
7883	A	40506M001	L Ensenada	TLRS-4	243	50	21.3	31	15	23.9	165.6	78831403

7883	A	40506M001	L	Ensenada	TLRS-4	243	50	21.3	31	15	23.9	165.6	78831404
7884	A	40429S001	L	Albuquerque	STARFIRE	253	32	9.9	34	57	51.2	1876.1	78846601
7885	A	40442M005	L	Mcdonald	TLRS-1	255	59	2.6	30	40	37.3	1962.0	78851101
7886	A	40433M005	L	Quincy	TLRS-1	239	3	18.7	39	58	30.0	1107.3	78861101
7886	A	40433M005	L	Quincy	TLRS-1	239	3	18.7	39	58	30.0	1107.3	78861102
7886	A	40433M005	L	Quincy	TLRS-1	239	3	18.7	39	58	30.0	1107.3	78861103
7886	A	40433M005	L	Quincy	TLRS-1	239	3	18.7	39	58	30.0	1107.3	78861104
7887	A	40420M004	L	Vandenberg	TLRS-1	239	29	58.0	34	33	58.4	601.6	78871101
7888	A	40434M002	L	Mount Hopk	TLRS-1	249	7	18.6	31	41	6.4	2330.8	78881101
7889	A	40451M118	L	Greenbelt	TLRS-2	283	10	21.1	39	1	15.2	19.2	78891201
7889	A	40451M118	L	Greenbelt	TLRS-2	283	10	21.1	39	1	15.2	19.2	78891203
7889	A	40451M118	L	Greenbelt	TLRS-3	283	10	21.1	39	1	15.2	19.2	78891302
7890	A	40412M001	L	Austin	TLRS-1	262	08	01.5	30	18	46.8	244.6	78901101
7890	A	40412M001	L	Austin	TLRS-1	262	08	01.5	30	18	46.8	244.6	78901102
7891	A	40491M002	L	Flagstaff	TLRS-1	248	21	55.7	35	12	52.3	2145.1	78911101
7892	A	40492M001	L	Vernal	TLRS-1	250	25	45.0	40	19	36.6	1589.8	78921101
7892	A	40492M001	L	Vernal	TLRS-1	250	25	45.0	40	19	36.6	1589.8	78921102
7894	A	40493M001	L	Yuma	TLRS-1	245	47	48.7	32	56	20.8	237.6	78941101
7895	A	---	L	Mount Wils	TLRS-1	283	10	19.7	39	1	14.5	21.9	78951101
7896	A	40400M001	L	Pasadena	TLRS-1	241	49	39.7	34	12	19.9	442.9	78961101
7897	A	40442M010	L	Mcdonald	TLRS-1	255	59	5.6	30	40	49.7	2004.9	78971101
7897	A	40442M010	L	Mcdonald	TLRS-1	255	59	5.6	30	40	49.7	2004.9	78971102
7899	A	40451M111	L	Greenbelt	TLRS-1	283	10	48.1	39	1	15.3	10.2	78991101
7899	A	40451M111	L	Greenbelt	TLRS-1	283	10	48.1	39	1	15.3	10.2	78991102
7902	A	30304S001	L	Olifantsfo	SAO-3	27	41	10.2	-25	-53	-22.9	1407.5	79024201
7907	A	42202S001	L	Arequipa	SAO-2	288	30	24.7	-16	-27	-56.6	2492.9	79074001
7907	A	42202S001	L	Arequipa	SAO-2	288	30	24.7	-16	-27	-56.6	2492.9	79074002
7907	A	42202S001	L	Arequipa	SAO-2	288	30	24.7	-16	-27	-56.6	2492.9	79074003
7917	A	40451M119	L	Greenbelt	SAO-3	283	10	18.9	39	1	17.7	25.7	79174201
7918	A	40451M120	L	Greenbelt	MOBLAS-6	283	10	19.7	39	1	14.5	19.4	79180608
7918	A	40451M120	L	Greenbelt	MOBLAS-6	283	10	19.7	39	1	14.5	19.4	79180609
7918	A	40451M120	L	Greenbelt	TLRS-3	283	10	19.7	39	1	14.5	19.4	79181301
7918	A	40451M120	L	Greenbelt	TLRS-3	283	10	19.7	39	1	14.5	19.4	79181302
7918	A	40451M120	L	Greenbelt	TLRS-3	283	10	19.7	39	1	14.5	19.4	79181306
7918	A	40451M120	L	Greenbelt	TLRS-4	283	10	19.7	39	1	14.5	19.4	79181403
7918	A	40451M120	L	Greenbelt	TLRS-4	283	10	19.7	39	1	14.5	19.4	79181404
7918	A	40451M120	L	Greenbelt	TLRS-4	283	10	19.7	39	1	14.5	19.4	79181405
7918	A	40451M120	L	Greenbelt	TLRS-4	283	10	19.7	39	1	14.5	19.4	79181407
7919	A	40451M121	L	Greenbelt	TLRS-4	283	10	19.7	39	1	14.5	21.9	79191401
7920	A	40451M117	L	Greenbelt	TLRS-1	283	10	21.0	39	1	12.9	19.3	79201101
7920	A	40451M117	L	Greenbelt	TLRS-1	283	10	21.0	39	1	12.9	19.3	79201102
7920	A	40451M117	L	Greenbelt	TLRS-1	283	10	21.0	39	1	12.9	19.3	79201103
7920	A	40451M117	L	Greenbelt	TLRS-1	283	10	21.0	39	1	12.9	19.3	79201104
7920	A	40451M117	L	Greenbelt	TLRS-1	283	10	21.0	39	1	12.9	19.3	79201105
7920	A	40451M117	L	Greenbelt	TLRS-1	283	10	21.0	39	1	12.9	19.3	79201110
7920	A	40451M117	L	Greenbelt	TLRS-1	283	10	21.0	39	1	12.9	19.3	79201111
7920	A	40451M117	L	Greenbelt	TLRS-3	283	10	21.0	39	1	12.9	19.3	79201306
7920	A	40451M117	L	Greenbelt	TLRS-3	283	10	21.0	39	1	12.9	19.3	79201307
7920	A	40451M117	L	Greenbelt	TLRS-3	283	10	21.0	39	1	12.9	19.3	79201308
7920	A	40451M117	L	Greenbelt	TLRS-3	283	10	21.0	39	1	12.9	19.3	79201309
7920	A	40451M117	L	Greenbelt	TLRS-4	283	10	21.0	39	1	12.9	19.3	79201414
7920	A	40451M117	L	Greenbelt	SALRO	283	10	21.0	39	1	12.9	19.3	79205512
7920	A	40451M117	L	Greenbelt	SALRO	283	10	21.0	39	1	12.9	19.3	79205513
7921	A	40434S001	L	Mount Hopk	SAO-4	249	7	18.9	31	41	3.2	2358.2	79214301
7929	A	41604S001	L	Natal	SAO-1	324	50	7.3	-5	-55	-40.1	42.6	79294101
7935	A	21705S001	L	Dodair	DDR FIXED	139	11	30.6	36	0	20.7	903.2	79356501
7939	A	12734S001	L	Matera	SAO-1	16	42	16.8	40	38	55.7	536.5	79394101
7940	A	12602S001	L	Dionysos	GRE. FIXED	23	55	57.9	38	4	42.3	511.9	79404701
7941	A	12734S008	L	Matera	MLRO	16	42	16.5	40	38	55.2	537.6	79417701

7943	A	501035003	L	Orroral	SAO-3	148	57	17.2	-35-37-29.7	950.3	79434201
7944	A	---	L	Tidbinbill	SALRO	148	57	17.3	-35 37 29.7	689.0	79445501
7999	A	---	L	Mcdonald	TLRS-1	255	59	5.6	30 40 49.7	2004.9	79991101
8833	A	13504M002	L	Kootwijk	MTLRS-1	5	48	36.6	52 10 41.4	89.2	88331501
8833	A	13504M002	L	Kootwijk	MTLRS-2	5	48	36.6	52 10 41.4	89.2	88331602
8833	A	13504M002	L	Kootwijk	MTLRS-2	5	48	36.6	52 10 41.4	89.2	88331603
8833	A	13504M002	L	Kootwijk	MTLRS-2	5	48	36.6	52 10 41.4	89.2	88331604
8833	A	13504M002	L	Kootwijk	MTLRS-2	5	48	36.6	52 10 41.4	89.2	88331605
8833	A	13504M002	L	Kootwijk	MTLRS-2	5	48	36.6	52 10 41.4	89.2	88331606
8833	A	13504M002	L	Kootwijk	MTLRS-2	5	48	36.6	52 10 41.4	89.2	88331607
8834	A	142015018	L	Wettzell	WLRS	12	52	40.8	49 8 39.9	666.0	88341001

-SITE/ID

+SITE/ECCENTRICITY

*SITE	PT	SOLN	T	DATA_START__	DATA_END_____	UNE	UP_____	NORTH___	EAST_____	CDP-SOD_
1148	A	1	L	88:001:00000	91:365:86399	UNE	0.0000	0.0000	0.0000	11480901
1181	A	1	L	74:001:00000	93:365:86399	UNE	0.0000	0.0000	0.0000	11813901
1824	A	1	L	96:001:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	18248101
1831	A	1	L	02:001:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	18318501
1863	A	1	L	90:274:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	18635101
1864	A	1	L	90:274:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	18645401
1866	A	1	L	90:274:00000	90:365:86399	UNE	0.0000	0.0000	0.0000	18665201
1867	A	1	L	90:274:00000	94:365:86399	UNE	0.0000	0.0000	0.0000	18675301
1868	A	1	L	92:122:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	18685901
1869	A	1	L	92:001:00000	93:365:86399	UNE	0.0000	0.0000	0.0000	18696001
1870	A	1	L	94:001:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	18706301
1871	A	1	L	94:001:00000	99:365:86399	UNE	0.0000	0.0000	0.0000	18716401
1873	A	1	L	76:122:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	18734901
1874	A	1	L	99:152:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	18748301
1879	A	1	L	04:259:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	18799401
1884	A	1	L	76:122:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	18844401
1885	A	1	L	96:245:00000	97:365:86399	UNE	0.0000	0.0000	0.0000	18856701
1886	A	1	L	10:335:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	18869601
1887	A	1	L	11:152:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	18879701
1888	A	1	L	12:001:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	18889801
1889	A	1	L	12:001:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	18899901
1890	A	1	L	12:001:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	18900901
1891	A	1	C	13:203:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	18915301
1893	A	1	L	76:122:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	18931801
1953	A	1	L	76:122:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	19532001
7035	A	1	L	88:176:00000	88:265:86399	UNE	2.5870	0.0060	0.0170	70351301
7040	A	1	L	05:001:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	70409201
7046	A	1	L	91:237:00000	91:290:86399	UNE	2.6390	0.0030	-0.0020	70461402
7046	A	1	L	90:215:00000	90:246:86399	UNE	1.3350	1.7760	1.9460	70461501
7051	A	1	L	74:239:00000	74:331:86399	UNE	3.6800	0.0020	-0.0010	70510101
7051	A	1	L	76:191:00000	76:335:86399	UNE	3.6040	-0.0050	-0.0030	70510202
7051	A	1	L	79:001:00000	79:150:86399	UNE	3.6190	-0.0060	0.0040	70510203
7051	A	1	L	81:032:00000	81:141:86399	UNE	3.2790	-0.0220	0.0230	70510804
7061	A	1	L	83:010:00000	83:214:86399	UNE	1.7360	0.0000	0.0000	70611201
7061	A	1	L	84:079:00000	84:347:86399	UNE	1.7350	0.0000	0.0000	70611202
7062	A	1	L	74:240:00000	74:348:86399	UNE	3.5700	-0.0050	0.0000	70620201
7062	A	1	L	76:258:00000	77:120:86399	UNE	3.6150	0.0000	0.0000	70620302
7062	A	1	L	78:180:00000	79:150:86399	UNE	3.5680	-0.0110	-0.0100	70620303
7062	A	1	L	81:277:00000	82:008:86399	UNE	3.4080	0.0310	-1.6010	70621104
7062	A	1	L	83:255:00000	84:004:86399	UNE	1.7940	0.0000	0.0000	70621205
7063	A	1	L	76:122:00000	81:240:86399	UNE	3.0360	0.0000	0.0000	70632101
7064	A	1	L	73:274:00000	74:181:86399	UNE	2.9780	0.0000	0.0000	70640101
7064	A	1	L	77:294:00000	77:332:86399	UNE	2.9660	0.0020	0.0020	70640102
7065	A	1	L	73:274:00000	74:181:86399	UNE	3.4170	0.0000	0.0000	70650201
7065	A	1	L	77:290:00000	77:325:86399	UNE	3.4680	-0.0130	0.0020	70650203

7065	A	1	L	75:213:00000	76:191:86399	UNE	3.4650	-0.0810	-0.1760	70650302
7066	A	1	L	76:122:00000	79:152:86399	UNE	9.0800	0.0000	0.0000	70662701
7067	A	1	L	75:236:00000	76:198:86399	UNE	3.7010	0.0000	0.0000	70670101
7067	A	1	L	78:181:00000	78:313:86399	UNE	3.6890	-0.0050	-0.0080	70670102
7068	A	1	L	75:109:00000	76:065:86399	UNE	3.5780	0.0000	0.0050	70680201
7068	A	1	L	78:211:00000	78:311:86399	UNE	3.6780	0.0090	-0.0290	70680202
7069	A	1	L	76:122:00000	80:274:86399	UNE	3.4360	0.0000	0.0000	70692201
7070	A	1	L	75:024:00000	75:059:86399	UNE	3.3600	0.0000	0.0000	70700201
7080	A	1	L	88:041:00000	88:154:86399	UNE	1.7560	-0.0040	-0.0050	70802401
7080	A	1	L	88:155:00000	88:265:86399	UNE	1.7560	-0.0040	-0.0050	70802402
7080	A	1	L	88:266:00000	89:255:86399	UNE	1.7560	-0.0040	-0.0050	70802403
7080	A	1	L	89:256:00000	89:270:86399	UNE	1.7560	-0.0040	-0.0050	70802404
7080	A	1	L	89:271:00000	89:297:86399	UNE	1.7560	-0.0040	-0.0050	70802405
7080	A	1	L	89:309:00000	90:015:86399	UNE	1.7560	-0.0040	-0.0050	70802406
7080	A	1	L	90:016:00000	90:025:86399	UNE	1.7560	-0.0040	-0.0050	70802407
7080	A	1	L	90:026:00000	90:093:86399	UNE	1.7560	-0.0040	-0.0050	70802408
7080	A	1	L	90:094:00000	90:119:86399	UNE	1.7560	-0.0040	-0.0050	70802409
7080	A	1	L	90:120:00000	90:156:86399	UNE	1.7560	-0.0040	-0.0050	70802410
7080	A	1	L	90:157:00000	90:267:86399	UNE	1.7560	-0.0040	-0.0050	70802411
7080	A	1	L	90:268:00000	90:334:86399	UNE	1.7560	-0.0040	-0.0050	70802412
7080	A	1	L	90:335:00000	91:099:86399	UNE	1.7560	-0.0040	-0.0050	70802413
7080	A	1	L	91:100:00000	91:184:86399	UNE	1.7560	-0.0040	-0.0050	70802414
7080	A	1	L	91:185:00000	92:100:86399	UNE	1.7560	-0.0040	-0.0050	70802415
7080	A	1	L	92:101:00000	92:225:86399	UNE	1.7560	-0.0040	-0.0050	70802416
7080	A	1	L	92:226:00000	93:028:86399	UNE	1.7560	-0.0040	-0.0050	70802417
7080	A	1	L	93:029:00000	93:161:86399	UNE	1.7630	-0.0030	-0.0060	70802418
7080	A	1	L	93:162:00000	00:000:00000	UNE	1.7630	-0.0030	-0.0060	70802419
7081	A	1	L	76:103:00000	76:128:86399	UNE	3.4220	0.0000	0.0000	70810201
7082	A	1	L	76:268:00000	76:335:86399	UNE	3.7740	0.0020	0.0030	70820101
7082	A	1	L	79:001:00000	79:232:86399	UNE	3.8170	-0.0040	0.0050	70820102
7082	A	1	L	81:089:00000	81:126:86399	UNE	3.5100	-1.0870	1.1120	70821103
7082	A	1	L	83:307:00000	84:010:86399	UNE	3.5040	-0.9980	1.2060	70821104
7083	A	1	L	75:001:00000	75:166:86399	UNE	2.8730	0.0000	0.0000	70830301
7084	A	1	L	77:346:00000	78:090:86399	UNE	3.4930	0.0000	0.0000	70840201
7085	A	1	L	77:346:00000	78:090:86399	UNE	3.8660	-0.0030	-0.0080	70850101
7086	A	1	L	79:239:00000	80:152:86399	UNE	3.7880	0.0070	-0.0070	70860101
7086	A	1	L	80:183:00000	80:221:86399	UNE	3.5290	-1.5800	-0.1400	70861102
7086	A	1	L	82:284:00000	85:059:86399	UNE	1.9770	-5.3080	5.5900	70862403
7086	A	1	L	85:060:00000	86:289:86399	UNE	1.9770	-5.3080	5.5900	70862404
7086	A	1	L	86:290:00000	87:210:86399	UNE	1.9770	-5.3080	5.5900	70862405
7086	A	1	L	87:211:00000	87:259:86399	UNE	1.9770	-5.3080	5.5900	70862406
7086	A	1	L	87:260:00000	87:327:86399	UNE	1.9770	-5.3080	5.5900	70862407
7086	A	1	L	87:328:00000	88:032:86399	UNE	1.9770	-5.3080	5.5900	70862408
7090	A	1	L	79:182:00000	83:207:86399	UNE	3.1850	0.0030	0.0110	70900501
7090	A	1	L	83:208:00000	84:323:86399	UNE	3.1850	0.0030	0.0110	70900502
7090	A	1	L	84:324:00000	85:247:86399	UNE	3.1850	0.0030	0.0110	70900503
7090	A	1	L	85:248:00000	87:106:86399	UNE	3.1850	0.0030	0.0110	70900504
7090	A	1	L	87:113:00000	87:224:86399	UNE	3.1850	0.0030	0.0110	70900505
7090	A	1	L	87:225:00000	87:237:86399	UNE	3.1770	0.0030	0.0100	70900506
7090	A	1	L	87:238:00000	89:216:86399	UNE	3.1770	0.0030	0.0100	70900507
7090	A	1	L	89:217:00000	90:316:86399	UNE	3.1770	0.0030	0.0100	70900508
7090	A	1	L	90:317:00000	91:157:86399	UNE	3.1770	0.0030	0.0100	70900509
7090	A	1	L	91:158:00000	92:008:86399	UNE	3.1770	0.0030	0.0100	70900510
7090	A	1	L	92:021:00000	92:083:86399	UNE	3.1813	-0.0096	0.0192	70900511
7090	A	1	L	92:084:00000	92:195:86399	UNE	3.1813	-0.0096	0.0192	70900512
7090	A	1	L	92:203:00000	98:233:86399	UNE	3.1813	-0.0096	0.0192	70900513
7090	A	1	L	98:234:00000	03:330:86399	UNE	3.1809	-0.0083	0.0178	70900513
7090	A	1	L	03:331:00000	07:150:86399	UNE	3.1821	-0.0083	0.0184	70900513
7090	A	1	L	07:151:00000	10:195:86399	UNE	3.1823	-0.0062	0.0190	70900513

7090	A	1	L	10:196:00000	14:079:86399	UNE	3.1820	-0.0068	0.0164	70900513
7090	A	1	L	14:080:00000	00:000:00000	UNE	3.1827	-0.0064	0.0194	70900513
7091	A	1	L	77:339:00000	78:090:86399	UNE	3.7480	0.0000	0.0030	70910301
7091	A	1	L	79:161:00000	80:319:86399	UNE	3.3810	-0.0160	-0.0030	70910702
7091	A	1	L	88:222:00000	88:291:86399	UNE	3.4770	1.5540	0.1520	70911103
7091	A	1	L	90:283:00000	90:345:86399	UNE	3.4970	1.5500	-0.0590	70911104
7092	A	1	L	79:227:00000	80:305:86399	UNE	3.1420	-0.0150	0.0450	70920801
7096	A	1	L	79:161:00000	80:319:86399	UNE	3.1980	0.0000	0.0000	70960601
7097	A	1	L	87:315:00000	88:060:86399	UNE	1.4960	0.0000	0.0000	70971201
7097	A	1	L	88:266:00000	89:090:86399	UNE	1.4740	0.0000	0.0000	70971202
7097	A	1	L	89:279:00000	90:056:86399	UNE	1.4820	0.0000	0.0000	70971203
7097	A	1	L	90:248:00000	91:068:86399	UNE	1.4870	0.0000	-0.0010	70971204
7097	A	1	L	91:261:00000	92:069:86399	UNE	1.4820	-0.0010	-0.0020	70971205
7097	A	1	L	92:070:00000	92:078:86399	UNE	1.4820	-0.0010	-0.0020	70971206
7097	A	1	L	92:226:00000	93:089:86399	UNE	1.4970	-0.0010	-0.0010	70971207
7097	A	1	L	93:331:00000	95:090:86399	UNE	1.4950	0.0000	-0.0010	70971208
7100	A	1	L	77:228:00000	77:322:86399	UNE	3.5130	0.0000	-0.0020	71000301
7100	A	1	L	78:060:00000	78:286:86399	UNE	3.1910	0.0050	0.0210	71000402
7101	A	1	L	82:032:00000	82:152:86399	UNE	3.1500	0.1190	-0.6480	71010602
7101	A	1	L	78:213:00000	79:150:86399	UNE	3.1330	0.1680	-0.6910	71010801
7102	A	1	L	84:336:00000	88:174:86399	UNE	3.4880	0.0580	0.0180	71020305
7102	A	1	L	79:138:00000	82:319:86399	UNE	3.2050	-0.0020	-0.0040	71020402
7102	A	1	L	82:335:00000	83:090:86399	UNE	3.1540	0.0080	0.0480	71020403
7102	A	1	L	83:091:00000	83:212:86399	UNE	3.1960	-0.0190	0.0420	71020404
7102	A	1	L	78:091:00000	79:137:86399	UNE	3.2080	-0.0090	0.0020	71020501
7102	A	1	L	88:295:00000	89:001:86399	UNE	3.2670	1.5660	-0.0180	71021106
7102	A	1	L	89:002:00000	89:065:86399	UNE	3.2670	1.5660	-0.0180	71021107
7103	A	1	L	78:135:00000	79:130:86399	UNE	3.1920	0.0000	-0.0330	71030601
7103	A	1	L	82:159:00000	82:306:86399	UNE	3.1660	-0.0460	-0.0060	71030602
7104	A	1	L	78:182:00000	79:155:86399	UNE	3.1300	0.0690	0.0620	71040701
7105	A	1	L	85:060:00000	85:204:86399	UNE	1.4650	0.9700	16.5080	71051206
7105	A	1	L	85:088:00000	85:184:86399	UNE	2.9820	13.2060	-12.1060	71050207
7105	A	1	L	81:001:00000	81:166:86399	UNE	3.1690	0.0160	-0.0260	71050701
7105	A	1	L	81:167:00000	83:031:86399	UNE	3.1690	0.0160	-0.0260	71050702
7105	A	1	L	83:032:00000	83:233:86399	UNE	3.1690	0.0160	-0.0260	71050703
7105	A	1	L	83:234:00000	84:081:86399	UNE	3.1690	0.0170	-0.0310	71050704
7105	A	1	L	84:082:00000	85:126:86399	UNE	3.1690	0.0170	-0.0320	71050705
7105	A	1	L	85:127:00000	85:209:86399	UNE	3.1690	0.0170	-0.0320	71050708
7105	A	1	L	85:210:00000	86:086:86399	UNE	3.1690	0.0170	-0.0320	71050709
7105	A	1	L	86:090:00000	86:339:86399	UNE	3.1680	0.0170	-0.0310	71050710
7105	A	1	L	86:340:00000	88:208:86399	UNE	3.1680	0.0170	-0.0310	71050711
7105	A	1	L	88:209:00000	89:009:86399	UNE	3.1680	0.0170	-0.0310	71050712
7105	A	1	L	89:010:00000	89:165:86399	UNE	3.1680	0.0170	-0.0310	71050713
7105	A	1	L	89:166:00000	89:214:86399	UNE	3.1680	0.0170	-0.0310	71050714
7105	A	1	L	89:215:00000	89:284:86399	UNE	3.1680	0.0170	-0.0310	71050715
7105	A	1	L	89:285:00000	90:205:86399	UNE	3.1620	0.0350	-0.0400	71050716
7105	A	1	L	90:206:00000	90:243:86399	UNE	3.1530	-0.0140	-0.0330	71050717
7105	A	1	L	90:244:00000	90:343:86399	UNE	3.1530	-0.0140	-0.0330	71050718
7105	A	1	L	90:344:00000	91:190:86399	UNE	3.1530	-0.0140	-0.0330	71050719
7105	A	1	L	91:191:00000	91:203:86399	UNE	3.1530	-0.0140	-0.0330	71050720
7105	A	1	L	91:204:00000	91:289:86399	UNE	3.1530	-0.0140	-0.0330	71050721
7105	A	1	L	91:291:00000	91:342:86399	UNE	3.1530	-0.0140	-0.0330	71050722
7105	A	1	L	91:343:00000	92:174:86399	UNE	3.1530	-0.0140	-0.0330	71050723
7105	A	1	L	92:192:00000	99:031:86399	UNE	3.1380	-0.0110	-0.0300	71050724
7105	A	1	L	99:032:00000	07:304:86399	UNE	3.1380	-0.0070	-0.0340	71050725
7105	A	1	L	07:305:00000	12:151:86399	UNE	3.1380	-0.0070	-0.0340	71050725
7105	A	1	L	12:152:00000	00:000:00000	UNE	3.1379	-0.0087	-0.0327	71050725
7106	A	1	L	90:001:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	71065601
7109	A	1	L	81:274:00000	82:210:86399	UNE	3.2250	0.0120	0.0110	71090801

7109	A	1	L	82:227:00000	85:070:86399	UNE	3.1410	-0.0290	0.0110	71090802
7109	A	1	L	85:071:00000	85:226:86399	UNE	3.1420	-0.0290	0.0110	71090803
7109	A	1	L	85:227:00000	86:261:86399	UNE	3.1420	-0.0290	0.0110	71090804
7109	A	1	L	86:269:00000	88:346:86399	UNE	3.1420	-0.0290	0.0110	71090805
7109	A	1	L	88:347:00000	89:081:86399	UNE	3.1380	-0.0270	0.0120	71090806
7109	A	1	L	89:082:00000	90:179:86399	UNE	3.1380	-0.0270	0.0120	71090807
7109	A	1	L	90:182:00000	90:199:86399	UNE	3.1380	-0.0270	0.0120	71090808
7109	A	1	L	90:200:00000	90:256:86399	UNE	3.1380	-0.0270	0.0120	71090809
7109	A	1	L	90:257:00000	91:066:86399	UNE	3.1380	-0.0270	0.0120	71090810
7109	A	1	L	91:322:00000	91:345:86399	UNE	3.1840	-0.0190	0.0050	71090812
7109	A	1	L	91:346:00000	92:094:86399	UNE	3.1840	-0.0350	-0.0030	71090813
7109	A	1	L	92:099:00000	92:117:86399	UNE	3.1840	-0.0350	-0.0030	71090814
7109	A	1	L	92:118:00000	97:161:86399	UNE	3.1840	-0.0350	-0.0030	71090815
7109	A	1	L	91:078:00000	91:231:86399	UNE	2.6510	-0.0050	0.0000	71091411
7110	A	1	L	81:182:00000	81:212:86399	UNE	3.5000	-0.0070	-0.0030	71100301
7110	A	1	L	81:213:00000	83:181:86399	UNE	3.5200	-0.0070	-0.0030	71100301
7110	A	1	L	83:227:00000	86:316:86399	UNE	3.2090	-0.0330	-0.0150	71100402
7110	A	1	L	86:324:00000	88:121:86399	UNE	3.2100	-0.0330	-0.0150	71100403
7110	A	1	L	88:121:00000	88:167:86399	UNE	3.2130	-0.0330	-0.0160	71100404
7110	A	1	L	88:168:00000	88:347:86399	UNE	3.2130	-0.0330	-0.0160	71100405
7110	A	1	L	88:348:00000	90:256:86399	UNE	3.2130	-0.0330	-0.0160	71100406
7110	A	1	L	90:257:00000	91:092:86399	UNE	3.2130	-0.0330	-0.0160	71100407
7110	A	1	L	91:093:00000	91:339:86399	UNE	3.2130	-0.0330	-0.0160	71100408
7110	A	1	L	91:340:00000	92:014:86399	UNE	3.2130	-0.0330	-0.0160	71100409
7110	A	1	L	92:018:00000	92:069:86399	UNE	3.2130	-0.0330	-0.0160	71100410
7110	A	1	L	92:122:00000	03:099:86399	UNE	3.1890	-0.0260	-0.0190	71100411
7110	A	1	L	03:143:00000	11:316:86399	UNE	3.1880	-0.0213	-0.0208	71100412
7110	A	1	L	11:317:00000	18:136:86399	UNE	3.1900	-0.0260	-0.0180	71100412
7110	A	1	L	18:137:00000	00:000:00000	UNE	3.1895	-0.0242	-0.0148	71100412
7111	A	1	L	82:118:00000	82:145:86399	UNE	3.3050	-1.1620	-1.0510	71111101
7112	A	1	L	81:091:00000	84:287:86399	UNE	3.5110	0.0050	-0.0020	71120201
7112	A	1	L	91:288:00000	91:359:86399	UNE	3.2730	1.1770	-1.0390	71121105
7112	A	1	L	90:026:00000	90:054:86399	UNE	2.6280	-0.0070	0.0220	71121403
7112	A	1	L	88:212:00000	88:274:86399	UNE	1.3510	-2.7050	0.0110	71121502
7112	A	1	L	90:249:00000	90:289:86399	UNE	1.3470	-2.7480	0.0420	71121504
7114	A	1	L	79:159:00000	81:031:86399	UNE	3.6220	-0.0030	-0.0080	71140201
7114	A	1	L	81:223:00000	81:272:86399	UNE	3.4590	1.5120	-0.4420	71141102
7114	A	1	L	82:312:00000	83:021:86399	UNE	3.5140	1.5200	-0.3640	71141103
7115	A	1	L	79:166:00000	81:100:86399	UNE	3.6150	0.0070	-0.0290	71150301
7119	A	1	L	06:250:00000	11:088:86399	UNE	2.6320	0.0010	0.0020	71191401
7119	A	1	L	11:089:00000	13:134:86399	UNE	2.6320	0.0010	0.0020	71191402
7119	A	1	L	13:135:00000	00:000:00000	UNE	2.6304	0.0029	0.0032	71191402
7120	A	1	L	80:167:00000	82:022:86399	UNE	3.6020	-0.0130	0.0090	71200101
7121	A	1	L	83:032:00000	86:101:86399	UNE	3.6620	0.0010	0.0060	71210101
7122	A	1	L	83:060:00000	84:061:86399	UNE	3.1820	0.0010	-0.0070	71220601
7122	A	1	L	84:150:00000	85:349:86399	UNE	3.1820	0.0010	-0.0070	71220602
7122	A	1	L	85:350:00000	87:021:86399	UNE	3.1820	0.0010	-0.0070	71220603
7122	A	1	L	87:028:00000	88:229:86399	UNE	3.1820	0.0010	-0.0070	71220604
7122	A	1	L	88:230:00000	89:011:86399	UNE	3.1810	0.0020	-0.0060	71220605
7122	A	1	L	89:012:00000	89:173:86399	UNE	3.1810	0.0020	-0.0060	71220606
7122	A	1	L	89:174:00000	89:276:86399	UNE	3.1810	0.0020	-0.0060	71220607
7122	A	1	L	89:277:00000	90:354:86399	UNE	3.1810	0.0020	-0.0060	71220608
7122	A	1	L	90:355:00000	91:103:86399	UNE	3.1810	0.0020	-0.0060	71220609
7122	A	1	L	92:254:00000	93:013:86399	UNE	2.6550	-0.0010	-0.0130	71221410
7123	A	1	L	87:195:00000	87:281:86399	UNE	1.4530	0.0000	0.0000	71231201
7123	A	1	L	88:076:00000	88:245:86399	UNE	1.4370	0.0000	0.0000	71231202
7123	A	1	L	89:114:00000	89:245:86399	UNE	1.4820	0.0000	0.0000	71231203
7123	A	1	L	90:074:00000	90:232:86399	UNE	1.4590	-0.0010	0.0030	71231204
7123	A	1	L	91:095:00000	91:247:86399	UNE	1.4820	-0.0020	0.0040	71231205

7123	A	1	L	92:098:00000	92:215:86399	UNE	1.4710	-0.0020	-0.0030	71231206
7123	A	1	L	93:098:00000	93:318:86399	UNE	1.4810	-0.0010	0.0020	71231207
7124	A	1	L	97:213:00000	99:348:86399	UNE	3.1450	-0.0120	0.0110	71240801
7124	A	1	L	99:349:00000	07:275:86399	UNE	3.1430	-0.0150	0.0110	71240802
7124	A	1	L	07:276:00000	00:000:00000	UNE	3.1410	-0.0150	0.0100	71240802
7125	A	1	L	87:258:00000	88:028:86399	UNE	2.5800	0.0000	0.0000	71251302
7125	A	1	L	85:121:00000	85:204:86399	UNE	1.3400	-0.3550	-2.1190	71251501
7125	A	1	L	12:001:00000	00:000:00000	UNE	3.6960	-0.0820	-2.8140	71259301
7126	A	1	L	96:275:00000	99:339:86399	UNE	0.0000	0.0000	0.0000	71267701
7127	A	1	L	03:182:00000	04:213:86399	UNE	0.0000	0.0000	0.0000	71278901
7130	A	1	L	85:310:00000	87:139:86399	UNE	2.4860	0.0000	0.0000	71301201
7130	A	1	L	99:015:00000	04:366:86399	UNE	2.6550	0.0020	-0.0030	71301402
7130	A	1	L	05:001:00000	06:109:86399	UNE	2.6704	-0.0096	-0.0159	71301403
7206	A	1	L	76:122:00000	85:180:86399	UNE	5.3280	-0.8100	-0.0410	72062601
7210	A	1	L	76:122:00000	84:091:86399	UNE	0.8480	0.7520	0.0000	72102301
7210	A	1	L	84:092:00000	87:197:86399	UNE	0.8480	0.7520	0.0000	72102302
7210	A	1	L	87:198:00000	89:215:86399	UNE	0.8480	0.7520	0.0000	72102303
7210	A	1	L	89:216:00000	90:304:86399	UNE	0.8480	0.7530	0.0010	72102304
7210	A	1	L	90:305:00000	91:021:86399	UNE	0.8480	0.7530	0.0010	72102305
7210	A	1	L	91:022:00000	91:169:86399	UNE	0.8480	0.7530	0.0010	72102306
7210	A	1	L	91:170:00000	92:013:86399	UNE	0.8480	0.7530	0.0010	72102307
7210	A	1	L	92:014:00000	92:098:86399	UNE	0.8480	0.7530	0.0010	72102308
7210	A	1	L	92:099:00000	92:183:86399	UNE	0.8480	0.7530	0.0010	72102309
7210	A	1	L	92:184:00000	92:196:86399	UNE	0.8480	0.7530	0.0010	72102310
7210	A	1	L	92:197:00000	93:229:86399	UNE	0.8480	0.7530	0.0010	72102311
7210	A	1	L	93:232:00000	95:244:86399	UNE	0.8490	0.7530	0.0000	72102312
7210	A	1	L	95:245:00000	04:159:86399	UNE	0.8490	0.7530	0.0000	72102313
7220	A	1	L	83:242:00000	83:306:86399	UNE	3.2410	1.4390	0.6560	72201101
7220	A	1	L	84:363:00000	85:010:86399	UNE	3.2540	1.2750	0.9030	72201102
7220	A	1	L	85:013:00000	85:058:86399	UNE	3.2300	0.9270	1.2710	72201103
7220	A	1	L	85:062:00000	85:082:86399	UNE	3.2300	0.9270	1.2710	72201104
7220	A	1	L	85:083:00000	85:133:86399	UNE	3.2300	0.9270	1.2710	72201105
7231	A	1	L	00:001:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	72312901
7236	A	1	L	88:001:00000	99:273:86399	UNE	0.0000	0.0000	0.0000	72362901
7237	A	1	L	88:001:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	72371901
7249	A	1	L	92:336:00000	12:066:86399	UNE	0.0000	0.0000	0.0000	72496101
7249	A	1	L	12:067:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	72496102
7261	A	1	L	91:121:00000	91:227:86399	UNE	3.2700	1.5610	0.1290	72611101
7265	A	1	L	84:018:00000	84:066:86399	UNE	3.4840	0.4700	-1.5020	72651101
7274	A	1	L	85:136:00000	85:199:86399	UNE	3.3010	1.2580	0.9510	72741101
7288	A	1	L	88:039:00000	88:167:86399	UNE	2.5840	0.0000	-0.0030	72881301
7288	A	1	L	89:023:00000	89:108:86399	UNE	2.6100	0.0050	-0.0110	72881402
7288	A	1	L	89:294:00000	90:017:86399	UNE	2.6170	0.0130	-0.0040	72881403
7288	A	1	L	90:293:00000	91:053:86399	UNE	2.6370	0.0080	-0.0120	72881404
7295	A	1	L	90:355:00000	91:107:86399	UNE	3.2880	0.1660	1.5650	72951102
7295	A	1	L	94:280:00000	95:112:86399	UNE	2.6560	0.0060	-0.0050	72951403
7295	A	1	L	88:084:00000	88:203:86399	UNE	1.3410	-2.6110	0.1960	72951501
7300	A	1	L	89:010:00000	89:083:86399	UNE	-0.6140	-516.4230	-565.4650	73001701
7301	A	1	L	89:191:00000	89:247:86399	UNE	1.5600	13.3950	19.1470	73011701
7302	A	1	L	89:276:00000	89:329:86399	UNE	1.6850	-3.6970	-1.0760	73021701
7303	A	1	L	90:254:00000	90:303:86399	UNE	1.6700	6.6200	8.4780	73031701
7304	A	1	L	90:336:00000	91:038:86399	UNE	1.8990	-114.0920	152.6220	73041701
7305	A	1	L	92:001:00000	92:091:86399	UNE	1.8300	38.6450	60.9860	73051701
7307	A	1	L	88:200:00000	88:261:86399	UNE	-17.6930	-1490.101	-4030.630	73071701
7307	B	1	L	97:215:00000	97:309:86399	UNE	-19.6060	-1499.991	-3979.552	73071702
7307	C	1	L	98:223:00000	98:317:86399	UNE	-19.6060	-1499.782	-3979.745	73071703
7307	D	1	L	99:257:00000	99:346:86399	UNE	-19.6100	-1510.897	-3982.025	73071704
7308	A	1	L	90:001:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	73085001
7309	A	1	L	93:032:00000	93:090:86399	UNE	1.2720	15.3400	-20.5420	73091701

7313	A	1	L	91:213:00000	91:304:86399	UNE	1.8500	-8.0840	-11.9970	73131701
7320	A	1	L	92:214:00000	92:305:86399	UNE	1.7790	-9.7540	5.8090	73201701
7321	A	1	L	94:152:00000	94:304:86399	UNE	2.1830	-259.1000	-49.6760	73211701
7322	A	1	L	95:305:00000	96:091:86399	UNE	-4.1810	-51.5480	-118.8670	73221701
7323	A	1	L	94:001:00000	94:090:86399	UNE	-25.1050	-653.5770	-573.9810	73231701
7328	A	1	L	96:061:00000	01:031:86399	UNE	8.9840	9.5460	29.0990	73287101
7335	A	1	L	96:061:00000	01:031:86399	UNE	4.4430	10.0190	1.5320	73357201
7337	A	1	L	96:061:00000	00:152:86399	UNE	4.4500	2.5960	13.2110	73377301
7339	A	1	L	96:061:00000	01:304:86399	UNE	4.4590	-4.7340	7.3300	73397401
7341	A	1	L	95:032:00000	95:090:86399	UNE	0.3680	3.9270	30.4830	73411701
7341	A	1	L	95:182:00000	95:243:86399	UNE	0.3680	3.9270	30.4830	73411702
7343	A	1	L	00:214:00000	00:366:86399	UNE	1.8300	0.0000	0.0000	73438401
7355	A	1	L	01:110:00000	01:181:86399	UNE	-4.8704	-40.4854	-15.4235	73558401
7355	A	1	L	03:091:00000	00:000:00000	UNE	0.9242	3.4911	0.6144	73558402
7356	A	1	L	01:182:00000	01:365:86399	UNE	1.9041	0.0000	0.0000	73568401
7357	A	1	L	03:001:00000	05:210:86399	UNE	0.0000	0.0000	0.0000	73578801
7358	A	1	L	02:244:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	73588901
7359	A	1	L	13:298:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	73592601
7370	A	1	L	07:334:00000	00:000:00000	UNE	2.0178	0.0000	0.0000	73706901
7394	A	1	L	15:218:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	73942601
7395	A	1	L	17:268:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	73956501
7396	A	1	L	19:246:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	73964701
7400	A	1	L	84:067:00000	84:131:86399	UNE	3.3340	-1.5670	-0.0090	74001101
7401	A	1	L	84:135:00000	84:182:86399	UNE	3.3020	-1.5800	0.1190	74011101
7401	A	1	L	90:008:00000	90:153:86399	UNE	2.6990	0.0220	-0.0090	74011302
7401	A	1	L	90:315:00000	91:072:86399	UNE	2.7010	0.0170	-0.0040	74011303
7403	A	1	L	90:165:00000	90:297:86399	UNE	2.6830	0.0130	-0.0110	74031301
7403	A	1	L	91:085:00000	91:288:86399	UNE	2.7010	0.0180	-0.0160	74031302
7403	A	1	L	92:196:00000	04:031:86399	UNE	2.6951	0.0112	-0.0046	74031303
7403	A	1	L	06:244:00000	09:216:86399	UNE	2.6790	0.0140	-0.0020	74031304
7403	A	1	L	09:217:00000	10:264:86399	UNE	2.6790	0.0140	-0.0020	74031305
7403	A	1	L	10:265:00000	00:000:00000	UNE	2.6790	0.0140	-0.0020	74031306
7404	A	1	L	95:114:00000	95:300:86399	UNE	1.4500	0.1340	-0.0050	74041201
7404	A	1	L	95:303:00000	96:335:86399	UNE	1.4560	0.1330	-0.0010	74041202
7405	A	1	L	02:001:00000	04:277:86399	UNE	1.4650	-0.1930	0.0010	74057901
7405	A	1	L	04:278:00000	08:281:86399	UNE	1.4667	-0.1956	0.0008	74057902
7405	A	1	L	08:282:00000	10:058:86399	UNE	1.4627	-0.1996	0.0085	74057903
7405	A	1	L	10:059:00000	00:000:00000	UNE	1.4638	-0.1891	0.0063	74057904
7406	A	1	L	05:332:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	74068801
7407	A	1	C	14:128:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	74072701
7410	A	1	L	93:132:00000	93:259:86399	UNE	2.6430	-0.0050	0.0010	74101401
7411	A	1	L	93:265:00000	93:286:86399	UNE	2.6480	-0.0030	0.0010	74111401
7411	A	1	L	94:157:00000	94:263:86399	UNE	2.6480	-0.0030	0.0010	74111402
7501	A	1	L	93:166:00000	93:220:86399	UNE	1.3320	-2.7460	-0.0120	75011501
7501	A	1	L	00:122:00000	03:202:86399	UNE	3.2280	-0.0030	-0.0060	75010602
7501	A	1	L	03:203:00000	14:089:86399	UNE	3.2271	-0.0006	-0.0060	75010602
7501	A	1	L	14:090:00000	00:000:00000	UNE	3.2270	-0.0040	-0.0070	75010602
7502	A	1	L	93:227:00000	93:365:86399	UNE	1.3620	1.3940	1.2980	75021501
7503	A	1	L	17:351:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	75036401
7505	A	1	L	95:273:00000	95:304:86399	UNE	1.3410	-2.7105	0.0629	75051501
7510	A	1	L	86:141:00000	86:202:86399	UNE	1.3440	-2.5460	0.0260	75101501
7510	A	1	L	89:307:00000	89:338:86399	UNE	1.3580	-2.6510	-0.0060	75101504
7510	A	1	L	92:136:00000	92:173:86399	UNE	1.3420	-2.7040	-0.3610	75101505
7510	A	1	L	92:174:00000	92:216:86399	UNE	1.3460	-2.7860	-0.1050	75101506
7510	A	1	L	87:145:00000	87:240:86399	UNE	1.3580	-2.6190	-0.0730	75101602
7510	A	1	L	89:217:00000	89:306:86399	UNE	1.3570	-2.6250	-0.0590	75101603
7512	A	1	L	86:248:00000	86:291:86399	UNE	1.3400	-2.5570	0.0730	75121501
7512	A	1	L	89:285:00000	89:299:86399	UNE	1.3440	-2.6780	0.0750	75121503
7512	A	1	L	92:080:00000	92:125:86399	UNE	1.3440	-2.5980	0.0590	75121504

7512	A	1	L	87:078:00000	87:135:86399	UNE	1.3540	-2.5750	0.0700	75121602
7515	A	1	L	86:208:00000	86:242:86399	UNE	1.3280	-2.5770	-0.0140	75151501
7515	A	1	L	87:201:00000	87:291:86399	UNE	1.3290	-2.6220	0.0030	75151502
7515	A	1	L	89:349:00000	90:029:86399	UNE	1.3330	-2.6160	0.0280	75151503
7515	A	1	L	92:080:00000	92:236:86399	UNE	1.3490	-2.6380	0.0400	75151604
7517	A	1	L	87:201:00000	87:240:86399	UNE	3.3090	-1.5680	-0.0580	75171102
7517	A	1	L	89:106:00000	89:171:86399	UNE	3.2380	-1.5620	-0.0720	75171104
7517	A	1	L	92:174:00000	92:219:86399	UNE	3.2560	-1.5670	0.0210	75171105
7517	A	1	L	87:295:00000	87:345:86399	UNE	1.3390	-2.5760	-0.0140	75171503
7517	A	1	L	86:147:00000	86:243:86399	UNE	1.3600	-2.5920	0.0580	75171601
7520	A	1	L	86:077:00000	86:133:86399	UNE	1.3390	-2.4275	0.0681	75201501
7520	A	1	L	89:175:00000	89:216:86399	UNE	1.3540	-2.7220	0.0700	75201502
7520	A	1	L	95:234:00000	95:273:86399	UNE	1.3301	-2.6600	0.0683	75201503
7525	A	1	L	87:253:00000	87:345:86399	UNE	3.2630	-1.5700	0.0780	75251104
7525	A	1	L	89:323:00000	90:020:86399	UNE	3.2600	-1.5680	0.0180	75251105
7525	A	1	L	92:070:00000	92:164:86399	UNE	3.2740	-1.5680	-0.0120	75251106
7525	A	1	L	94:182:00000	94:282:86399	UNE	3.2770	-1.5640	-0.0010	75251107
7525	A	1	L	86:246:00000	86:255:86399	UNE	1.3700	-2.5720	-0.1030	75251601
7525	A	1	L	86:256:00000	86:258:86399	UNE	1.3700	-2.5720	-0.1030	75251602
7525	A	1	L	86:258:00000	86:291:86399	UNE	1.3700	-2.5720	-0.1030	75251603
7530	A	1	L	85:214:00000	89:219:86399	UNE	2.0240	0.0000	0.5790	75300201
7530	A	1	L	89:220:00000	90:174:86399	UNE	2.0240	0.0000	0.5790	75300202
7530	A	1	L	90:175:00000	91:292:86399	UNE	3.4900	0.0200	0.0000	75300203
7530	A	1	L	91:293:00000	94:289:86399	UNE	3.4800	0.0180	-0.0060	75300204
7540	A	1	L	86:008:00000	86:076:86399	UNE	1.3200	-2.6530	-0.0230	75401501
7541	A	1	L	94:083:00000	94:169:86399	UNE	3.2500	-1.5670	-0.1360	75411102
7541	A	1	L	94:344:00000	95:090:86399	UNE	3.2380	-1.5590	0.1090	75411103
7541	A	1	L	85:342:00000	86:071:86399	UNE	1.3360	-2.6390	-0.1160	75411601
7542	A	1	L	91:107:00000	91:365:86399	UNE	1.3550	-2.6490	0.0910	75421601
7543	A	1	L	93:187:00000	93:289:86399	UNE	3.2860	-1.5580	-0.0780	75431102
7543	A	1	L	90:295:00000	90:346:86399	UNE	1.3610	-2.6020	-0.2640	75431601
7544	A	1	L	89:087:00000	89:151:86399	UNE	1.3460	-2.6860	0.0380	75441502
7544	A	1	L	92:253:00000	92:286:86399	UNE	1.3470	-2.6190	0.0710	75441503
7544	A	1	L	92:287:00000	92:345:86399	UNE	1.3460	-2.6310	0.0840	75441504
7544	A	1	L	87:257:00000	87:345:86399	UNE	1.3630	-2.6510	-0.0160	75441601
7545	A	1	L	90:032:00000	90:114:86399	UNE	3.2490	0.0380	1.5650	75451103
7545	A	1	L	93:297:00000	94:074:86399	UNE	3.2600	-1.5480	0.1410	75451104
7545	A	1	L	85:292:00000	85:341:86399	UNE	1.3480	-2.6070	0.0890	75451601
7545	A	1	L	88:008:00000	88:083:86399	UNE	1.3610	-2.6320	0.0370	75451602
7546	A	1	L	94:294:00000	94:336:86399	UNE	3.2500	-1.5670	-0.1360	75461102
7546	A	1	L	88:088:00000	88:156:86399	UNE	1.3490	-2.6480	-0.1120	75461601
7548	A	1	L	93:001:00000	02:120:86399	UNE	0.0000	0.0000	0.0000	75486201
7550	A	1	L	86:077:00000	86:139:86399	UNE	1.3460	-2.0620	0.5520	75501601
7550	A	1	L	89:146:00000	89:201:86399	UNE	1.3530	-2.6310	0.0450	75501602
7560	A	1	L	91:227:00000	91:275:86399	UNE	1.3110	-2.1430	-0.3070	75601501
7561	A	1	L	91:289:00000	91:326:86399	UNE	1.3870	-2.6760	0.0280	75611501
7575	A	1	L	87:082:00000	87:135:86399	UNE	1.3280	-2.6250	-0.0870	75751501
7575	A	1	L	89:254:00000	89:269:86399	UNE	1.3500	-2.6760	-0.1660	75751502
7580	A	1	L	87:092:00000	87:136:86399	UNE	3.3180	-1.5740	-0.1030	75801101
7580	A	1	L	89:289:00000	89:316:86399	UNE	3.2450	-1.5550	-0.2300	75801102
7580	A	1	L	92:311:00000	92:317:86399	UNE	3.2780	-1.5580	-0.2240	75801103
7580	A	1	L	92:318:00000	93:006:86399	UNE	3.2770	-1.5560	-0.2260	75801104
7585	A	1	L	87:145:00000	87:184:86399	UNE	1.3440	-2.5810	-0.1680	75851501
7585	A	1	L	89:232:00000	89:248:86399	UNE	1.3420	-2.6030	-0.1530	75851502
7585	A	1	L	92:207:00000	92:240:86399	UNE	1.3200	-2.6080	-0.2120	75851503
7587	A	1	L	87:140:00000	87:184:86399	UNE	3.3070	-1.5760	-0.0360	75871101
7587	A	1	L	89:186:00000	89:284:86399	UNE	3.2730	-1.5590	-0.1980	75871102
7587	A	1	L	92:233:00000	92:303:86399	UNE	3.2760	-1.5660	-0.1340	75871103
7587	A	1	L	94:258:00000	94:365:86399	UNE	1.3220	0.0010	2.5930	75871504

7589	A	1	L	93:021:00000	93:170:86399	UNE	3.2870	-1.5640	0.0110	75891101
7590	A	1	L	85:244:00000	85:291:86399	UNE	1.1320	-2.3070	-0.5130	75901601
7594	A	1	L	97:274:00000	01:328:86399	UNE	1.4670	-0.1000	-0.0550	75947901
7596	A	1	L	85:219:00000	85:365:86399	UNE	1.3410	-2.4450	-0.0060	75961502
7596	A	1	L	95:057:00000	95:111:86399	UNE	1.3177	-2.6745	-0.0081	75961503
7596	A	1	L	85:060:00000	85:106:86399	UNE	1.3710	-2.4080	-0.0300	75961601
7597	A	1	L	85:032:00000	85:087:86399	UNE	1.3330	-2.5240	0.0090	75971501
7597	A	1	L	85:088:00000	85:120:86399	UNE	1.3240	-2.5850	0.0010	75971502
7597	A	1	L	91:183:00000	91:199:86399	UNE	1.3177	-2.6745	-0.0081	75971503
7597	A	1	L	91:200:00000	91:205:86399	UNE	1.3177	-2.6745	-0.0081	75971504
7597	A	1	L	91:206:00000	91:210:86399	UNE	1.3177	-2.6745	-0.0081	75971505
7597	A	1	L	92:025:00000	92:069:86399	UNE	1.3177	-2.6745	-0.0081	75971506
7597	A	1	L	94:121:00000	94:243:86399	UNE	1.3070	-2.6500	0.0330	75971507
7597	A	1	L	95:144:00000	95:228:86399	UNE	1.3177	-2.6745	-0.0081	75971508
7597	A	1	L	96:092:00000	96:366:86399	UNE	1.3277	-2.6972	0.0171	75971509
7599	A	1	L	84:245:00000	84:366:86399	UNE	1.3680	-2.3040	0.0550	75991501
7602	A	1	L	90:217:00000	90:274:86399	UNE	1.3490	-0.7920	2.0040	76021601
7604	A	1	L	04:245:00000	04:366:86399	UNE	1.8455	0.0000	0.0000	76046901
7801	A	1	L	78:060:00000	78:365:86399	UNE	0.0000	0.0000	0.0000	78014601
7805	A	1	L	78:213:00000	98:365:86399	UNE	0.0000	0.0000	0.0000	78053301
7806	A	1	L	96:275:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	78067601
7810	A	1	L	84:122:00000	95:120:86399	UNE	0.0000	0.0000	0.0000	78104801
7810	B	1	L	95:274:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	78106801
7811	A	1	L	76:001:00000	83:365:86399	UNE	0.0000	0.0000	0.0000	78113801
7811	A	1	L	88:001:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	78113802
7819	A	1	L	16:343:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	78198201
7820	A	1	L	98:244:00000	16:343:00000	UNE	0.0000	0.0000	0.0000	78208201
7821	A	1	L	05:244:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	78212801
7822	A	1	L	11:121:00000	00:000:00000	UNE	1.7846	0.0000	0.0000	78226901
7823	A	1	L	04:153:00000	04:182:86399	UNE	1.8201	0.0000	0.0000	78236901
7824	A	1	L	76:122:00000	98:365:86399	UNE	0.0000	0.0000	0.0000	78244501
7824	B	1	L	99:091:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	78244502
7825	A	1	L	04:001:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	78259001
7826	A	1	L	04:183:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	78269101
7827	A	1	C	14:120:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	78272201
7829	A	1	C	09:243:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	78296903
7830	A	1	L	03:086:00000	03:334:86399	UNE	1.8184	0.0000	0.0000	78306901
7831	A	1	L	83:121:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	78314601
7832	A	1	L	95:121:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	78325501
7833	A	1	L	76:122:00000	84:366:86399	UNE	0.0000	0.0000	0.0000	78333201
7834	A	1	L	76:122:00000	91:365:86399	UNE	0.0000	0.0000	0.0000	78343001
7835	A	1	L	76:122:00000	83:080:86399	UNE	0.0000	0.0000	0.0000	78353101
7835	A	1	L	83:357:00000	05:212:86399	UNE	0.0000	0.0000	0.0000	78353102
7836	A	1	L	91:319:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	78365801
7837	A	1	L	87:300:00000	88:098:86399	UNE	0.0000	0.0000	0.0000	78372804
7837	A	1	L	88:099:00000	05:105:86399	UNE	0.0000	0.0000	0.0000	78372805
7837	A	1	L	83:213:00000	85:345:86399	UNE	0.0000	0.0000	0.0000	78373701
7837	A	1	L	85:346:00000	86:059:86399	UNE	0.0000	0.0000	0.0000	78373702
7837	A	1	L	86:060:00000	87:299:86399	UNE	0.0000	0.0000	0.0000	78373703
7838	A	1	L	82:060:00000	90:181:86399	UNE	0.0000	0.0000	0.0000	78383601
7838	A	1	L	90:182:00000	09:243:86399	UNE	0.0000	0.0000	0.0000	78383602
7838	A	1	L	09:244:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	78383603
7839	A	1	L	83:244:00000	88:213:86399	UNE	0.0000	0.0000	0.0000	78393401
7839	A	1	L	88:214:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	78393402
7840	A	1	L	83:001:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	78403501
7841	A	1	L	01:001:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	78418701
7843	A	1	L	84:214:00000	89:300:86399	UNE	0.0000	0.0000	0.0000	78432501
7843	A	1	L	89:301:00000	98:334:86399	UNE	0.0000	0.0000	0.0000	78432502
7844	A	1	L	88:001:00000	88:073:86399	UNE	210.1370	-728.268	1870.28	78441701

7844	B	1	L	96:122:00000	96:213:86399	UNE	210.2150	-725.485	1865.33	78441702
7845	A	1	L	97:001:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	78457801
7846	A	1	L	95:274:00000	95:334:86399	UNE	1.8150	0.0000	0.0000	78466901
7847	A	1	L	95:244:00000	96:121:86399	UNE	0.0000	0.0000	0.0000	78477001
7848	A	1	L	96:245:00000	97:090:86399	UNE	1.7772	0.0000	0.0000	78486901
7848	A	1	L	02:001:00000	02:273:86399	UNE	1.8260	0.0000	0.0000	78486902
7848	A	1	L	05:130:00000	05:365:86399	UNE	1.8504	0.0000	0.0000	78486903
7848	A	1	L	08:190:00000	08:366:86399	UNE	1.7772	0.0000	0.0000	78486904
7849	A	1	L	98:001:00000	03:031:86399	UNE	0.0000	0.0000	0.0000	78498001
7850	A	1	L	93:023:00000	93:121:86399	UNE	2.6530	0.0010	0.0040	78501401
7853	A	1	L	88:275:00000	88:335:86399	UNE	1.3210	-2.6740	-0.0140	78531501
7853	A	1	L	90:178:00000	90:212:86399	UNE	1.3300	-2.6900	-0.0040	78531502
7865	A	1	L	01:244:00000	15:231:86399	UNE	4.0720	-1.2160	-0.0190	78658601
7865	A	1	L	15:232:00000	00:000:00000	UNE	4.0545	-1.2022	-0.0102	78658601
7882	A	1	L	88:081:00000	88:214:86399	UNE	3.2540	-0.3530	1.5250	78821102
7882	A	1	L	84:032:00000	84:070:86399	UNE	1.7030	0.0000	0.0000	78821201
7882	A	1	L	92:057:00000	92:154:86399	UNE	2.6460	-0.0060	-0.0030	78821403
7882	A	1	L	94:052:00000	94:132:86399	UNE	2.6470	-0.0130	0.0080	78821404
7883	A	1	L	89:115:00000	89:194:86399	UNE	2.6260	0.0060	-0.0060	78831401
7883	A	1	L	89:195:00000	89:279:86399	UNE	2.6260	0.0060	-0.0060	78831402
7883	A	1	L	91:299:00000	92:043:86399	UNE	2.6530	0.0000	-0.0100	78831403
7883	A	1	L	93:326:00000	94:043:86399	UNE	2.6550	0.0060	-0.0160	78831404
7884	A	1	L	95:001:00000	02:059:86399	UNE	0.0000	0.0000	0.0000	78846601
7885	A	1	L	82:204:00000	82:283:86399	UNE	3.5640	1.4690	0.5430	78851101
7886	A	1	L	83:186:00000	83:240:86399	UNE	3.3640	-0.3000	1.5590	78861101
7886	A	1	L	84:191:00000	84:195:86399	UNE	3.3400	-0.4560	1.5130	78861102
7886	A	1	L	84:221:00000	84:251:86399	UNE	3.3330	-0.4600	1.5060	78861103
7886	A	1	L	84:255:00000	84:353:86399	UNE	3.3340	0.4360	-1.5330	78861104
7887	A	1	L	83:025:00000	83:052:86399	UNE	3.3390	-1.4090	0.6780	78871101
7888	A	1	L	82:025:00000	82:106:86399	UNE	3.4190	-1.4940	0.4670	78881101
7889	A	1	L	82:121:00000	82:354:86399	UNE	1.7200	0.0000	0.0000	78891201
7889	A	1	L	85:213:00000	85:288:86399	UNE	0.0000	0.0000	0.0000	78891203
7889	A	1	L	84:306:00000	85:213:86399	UNE	0.0000	0.0000	0.0000	78891302
7890	A	1	L	80:052:00000	80:054:86399	UNE	3.2500	-1.4860	0.3790	78901101
7890	A	1	L	81:030:00000	81:075:86399	UNE	3.2940	0.4420	-1.5100	78901102
7891	A	1	L	81:171:00000	81:218:86399	UNE	3.3770	-0.0010	-1.5740	78911101
7892	A	1	L	81:127:00000	81:168:86399	UNE	3.3510	-0.0540	1.5620	78921101
7892	A	1	L	82:151:00000	82:202:86399	UNE	3.3250	0.0210	1.5700	78921102
7894	A	1	L	83:053:00000	83:185:86399	UNE	3.2990	1.3340	0.8320	78941101
7895	A	1	L	81:006:00000	81:028:86399	UNE	0.0000	0.0000	0.0000	78951101
7896	A	1	L	80:298:00000	81:006:86399	UNE	3.3070	1.5100	0.4590	78961101
7897	A	1	L	79:244:00000	79:365:86399	UNE	3.1970	-1.5830	0.1020	78971101
7897	A	1	L	80:001:00000	80:044:86399	UNE	3.3330	-1.5490	0.1260	78971102
7899	A	1	L	80:060:00000	80:142:86399	UNE	3.3060	1.5410	0.3010	78991101
7899	A	1	L	80:231:00000	80:284:86399	UNE	3.3040	1.5260	0.3260	78991102
7902	A	1	L	71:001:00000	75:365:86399	UNE	0.0000	0.0000	0.0000	79024201
7907	A	1	L	70:244:00000	88:166:86399	UNE	0.0000	0.0000	0.0000	79074001
7907	A	1	L	88:167:00000	91:121:86399	UNE	0.0000	0.0000	0.0000	79074002
7907	A	1	L	91:291:00000	92:366:86399	UNE	0.0000	0.0000	0.0000	79074003
7917	A	1	L	84:245:00000	85:365:86399	UNE	2.0240	0.0000	0.5790	79174201
7918	A	1	L	93:111:00000	94:173:86399	UNE	3.1000	-1.2160	-1.5040	79180608
7918	A	1	L	94:269:00000	00:091:86399	UNE	3.1680	-0.9680	-1.2520	79180609
7918	A	1	L	85:234:00000	86:189:86399	UNE	2.4640	-0.0050	0.0010	79181301
7918	A	1	L	87:042:00000	87:257:86399	UNE	2.4640	-0.0050	0.0010	79181302
7918	A	1	L	91:352:00000	92:135:86399	UNE	2.7000	-0.0080	-0.0030	79181306
7918	A	1	L	88:032:00000	88:358:86399	UNE	2.6010	-0.0090	-0.0060	79181403
7918	A	1	L	90:065:00000	90:204:86399	UNE	2.6130	-0.0070	-0.0050	79181404
7918	A	1	L	90:205:00000	90:277:86399	UNE	2.6130	-0.0070	-0.0050	79181405
7918	A	1	L	92:174:00000	92:242:86399	UNE	2.6390	0.0000	-1.1020	79181407

7919	A	1	L	85:322:00000	87:092:86399	UNE	2.5910	0.0000	-0.0110	79191401
7920	A	1	L	85:210:00000	86:015:86399	UNE	3.2870	1.5560	-0.1430	79201101
7920	A	1	L	86:016:00000	86:353:86399	UNE	3.3190	1.5860	-0.0810	79201102
7920	A	1	L	86:355:00000	87:020:86399	UNE	3.3190	1.5860	-0.0810	79201103
7920	A	1	L	87:021:00000	87:037:86399	UNE	3.3190	1.5860	-0.0810	79201104
7920	A	1	L	88:034:00000	88:068:86399	UNE	3.3190	1.5860	-0.0810	79201105
7920	A	1	L	90:247:00000	90:283:86399	UNE	3.2410	1.5720	-0.0540	79201110
7920	A	1	L	91:238:00000	91:277:86399	UNE	3.2730	1.5630	-0.0730	79201111
7920	A	1	L	88:277:00000	89:046:86399	UNE	2.7000	1.5660	0.8490	79201306
7920	A	1	L	89:047:00000	89:169:86399	UNE	2.6950	1.5670	0.8570	79201307
7920	A	1	L	89:170:00000	89:284:86399	UNE	2.6960	1.5660	0.8580	79201308
7920	A	1	L	89:285:00000	89:320:86399	UNE	2.6970	1.5690	0.8600	79201309
7920	A	1	L	95:121:00000	99:014:86399	UNE	2.6460	1.4630	-0.0430	79201414
7920	A	1	L	92:043:00000	93:098:86399	UNE	3.1590	1.4940	-0.0500	79205512
7920	A	1	L	93:099:00000	95:110:86399	UNE	3.1290	1.4880	-0.0470	79205513
7921	A	1	L	68:041:00000	82:064:86399	UNE	0.0000	0.0000	0.0000	79214301
7929	A	1	L	70:304:00000	81:273:86399	UNE	0.0000	0.0000	0.0000	79294101
7935	A	1	L	76:001:00000	77:365:86399	UNE	0.0000	0.0000	0.0000	79356501
7939	A	1	L	83:121:00000	00:366:86399	UNE	0.0000	0.0000	0.0000	79394101
7940	A	1	L	76:122:00000	77:365:86399	UNE	0.0000	0.0000	0.0000	79404701
7941	A	1	L	00:001:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	79417701
7943	A	1	L	76:167:00000	82:069:86399	UNE	0.0000	0.0000	0.0000	79434201
7944	A	1	L	91:274:00000	91:354:86399	UNE	0.0000	0.0000	0.0000	79445501
7999	A	1	L	80:222:00000	80:224:86399	UNE	0.0000	0.0000	0.0000	79991101
8833	A	1	L	84:092:00000	84:152:86399	UNE	-0.0360	-0.0120	-0.0080	88331501
8833	A	1	L	84:320:00000	85:059:86399	UNE	0.0890	-0.2210	0.0000	88331602
8833	A	1	L	85:108:00000	85:243:86399	UNE	0.0890	-0.2210	0.0000	88331603
8833	A	1	L	88:160:00000	89:144:86399	UNE	0.0810	-0.2200	0.0020	88331604
8833	A	1	L	89:309:00000	90:211:86399	UNE	0.0990	-0.2180	-0.0010	88331605
8833	A	1	L	92:238:00000	93:365:86399	UNE	0.0820	-0.2180	-0.0010	88331606
8833	A	1	L	95:079:00000	95:243:86399	UNE	0.0790	-0.2180	0.0010	88331607
8834	A	1	L	90:244:00000	00:000:00000	UNE	0.0000	0.0000	0.0000	88341001

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